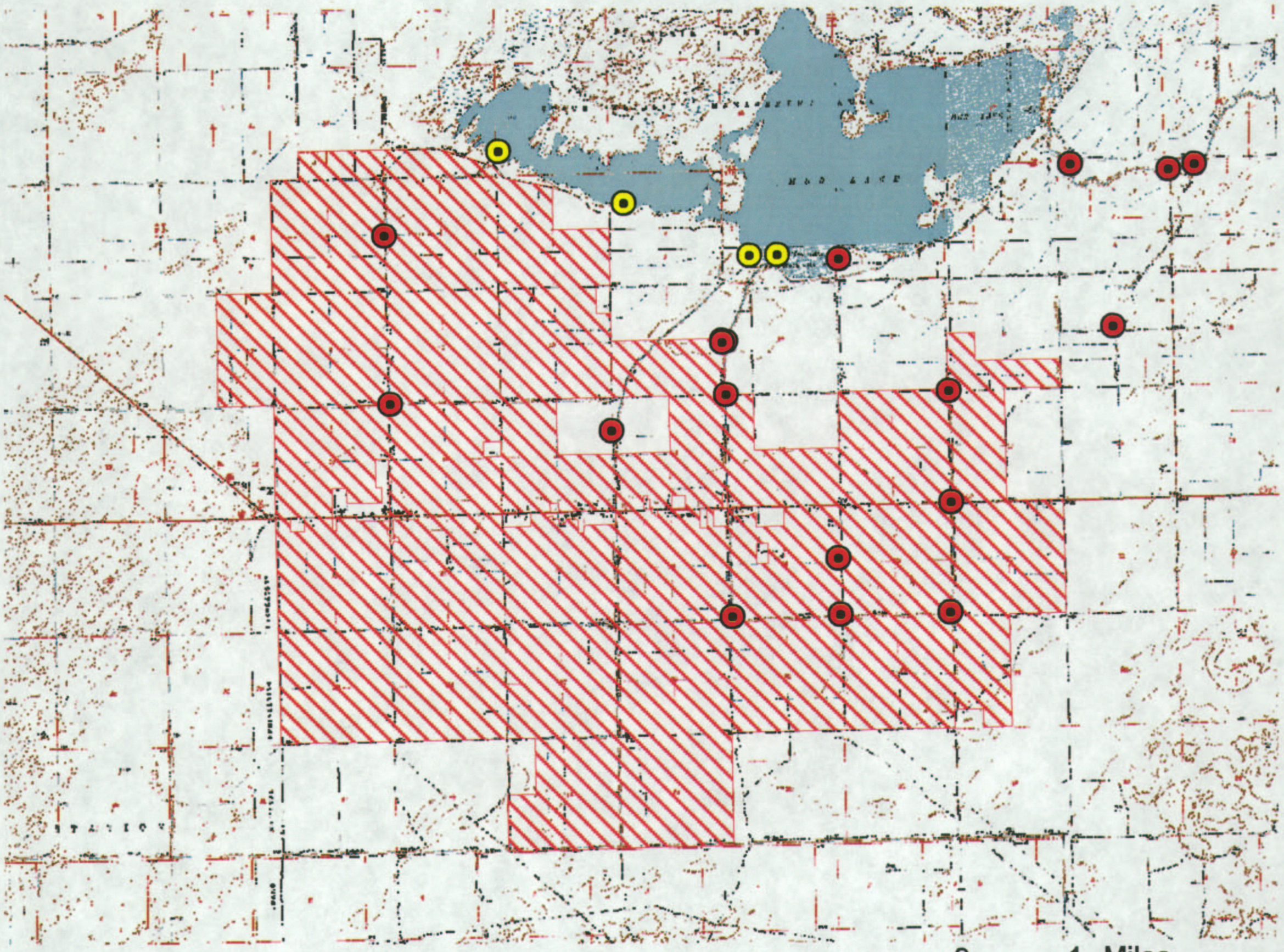
Idaho Department of Water Resources

Mud Lake Water Users
"Owsely" Surface Water Rights



Point of Diversion

Point of Diversion - Other Rights

Place of Use

Place of Use - Other Rights

Quarter-quarter Sections

Section Lines

N

W

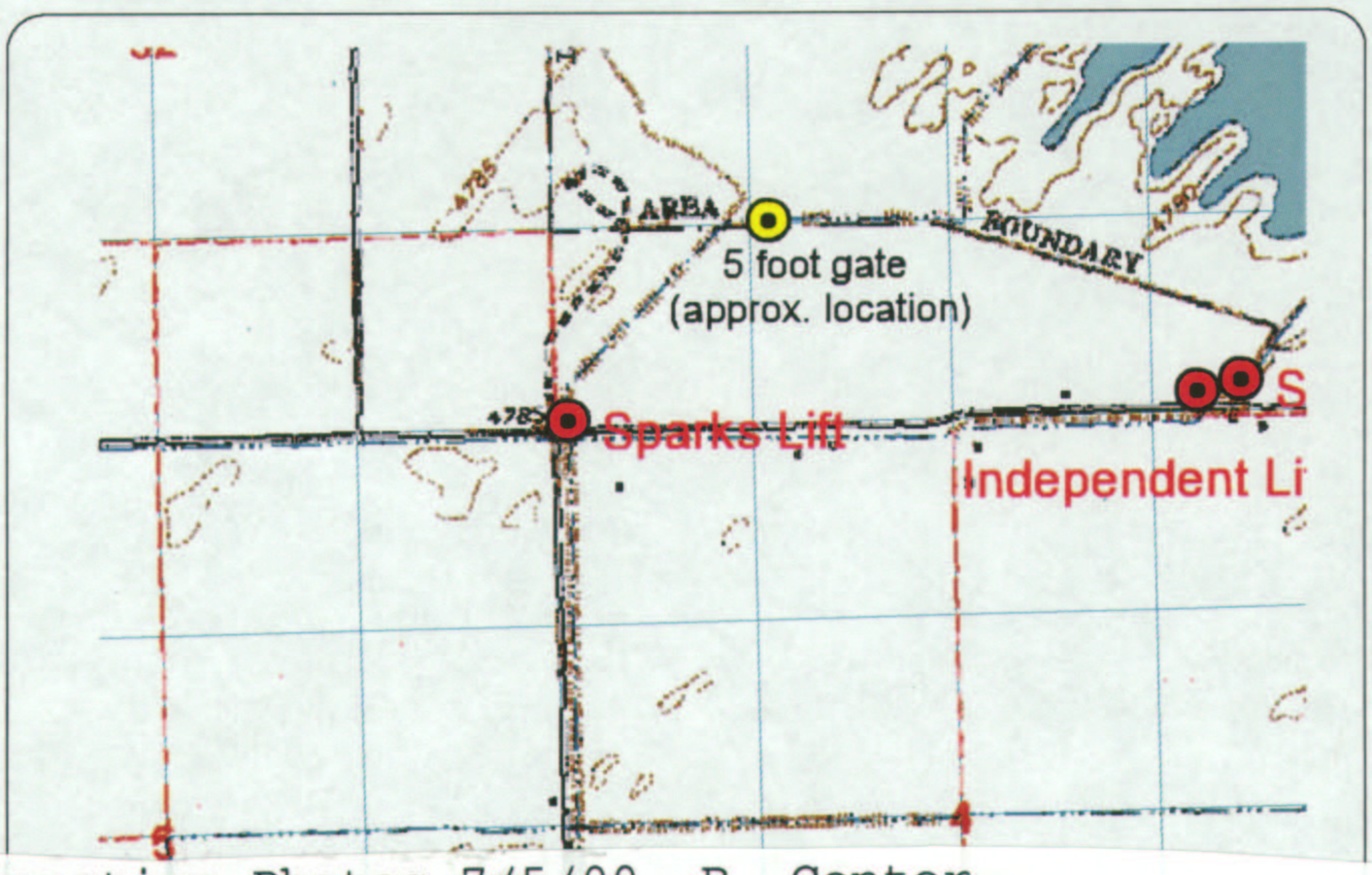
E

S

GIS Illustration prepared from 1987/1988 NAPP photography by B. Contor 12/2000

AJ Field Inspection Photograph 7/5/2000

5 Foot Gate to West Marsh 7N 34E 33 SW 1/4



AJ Field Inspection Photos 7/5/00 B. Contor

5 foot gate to West Marsh (Slough), 7N 34E 33 SW ¼, looking NE from south side of North Lake Well Channel.

Mud Lake Water Users GW and Surface claims.

See also "36 gate." The purpose for this gate is to allow water into the West Slough for storage and/or flood control, and to allow water from the West Slough to flow back towards the lake for diversion and beneficial use, as the lake drops.

No GPS reading of location.

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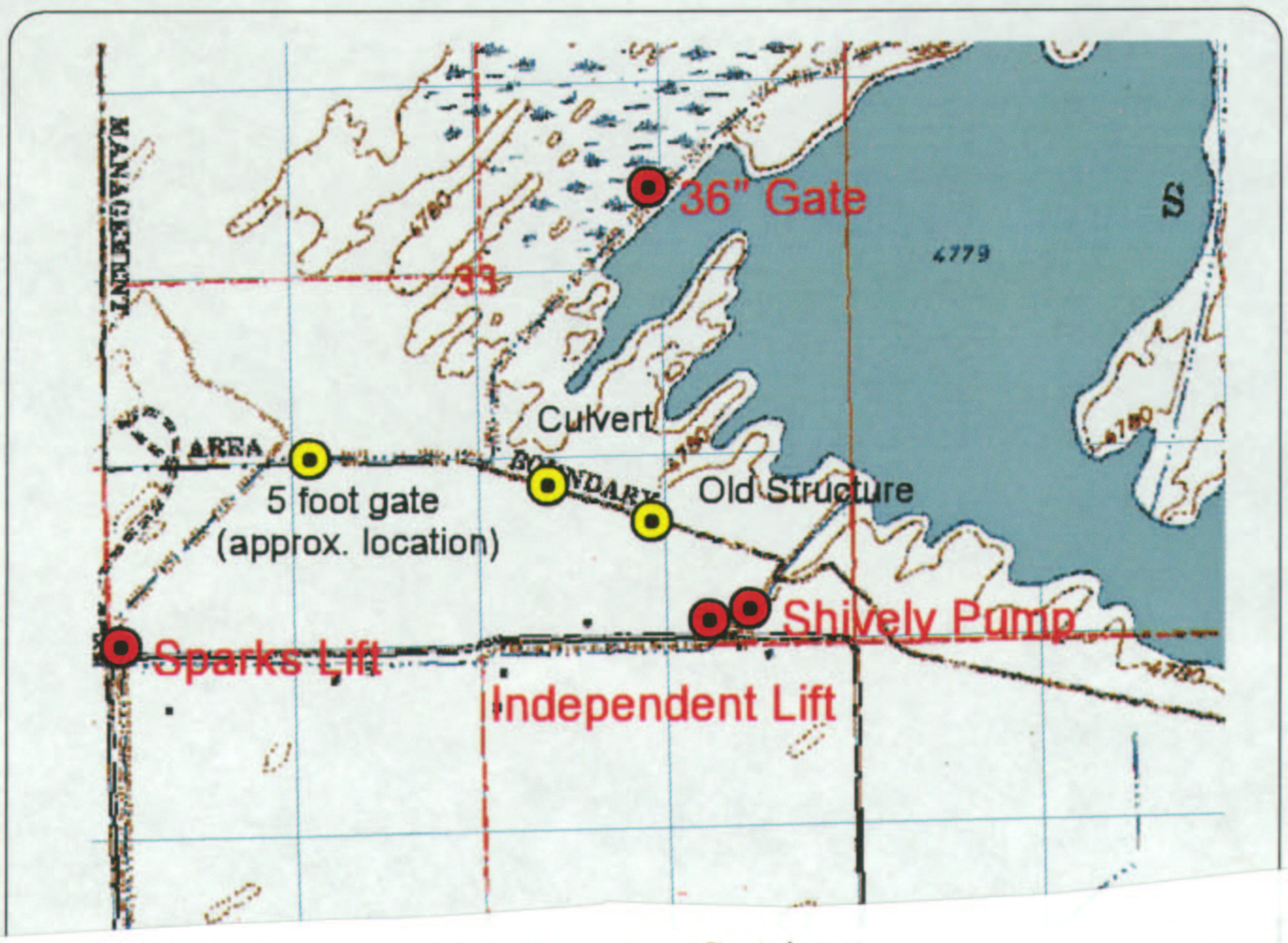
NOV 1 4 2002

AJ Field Inspection Photograph 7/5/2000

36" Gate to West Slough 7N 34E 33 NE



Red features located by GPS, yellow features location approximate

AJ Field Inspection Photos 7/5/00 B. Contor

36" Gate between North Lake Well Channel and West Marsh (Slough), 7N 34E 33 NE ¼, looking SW.

Mud Lake Water Users GW and Surface Claims.

See also "5 foot gate." The purpose for this gate is to allow water into the West Slough for storage and/or flood control, and to allow water from the West Slough to flow back towards the lake for diversion and beneficial use, as the lake drops.

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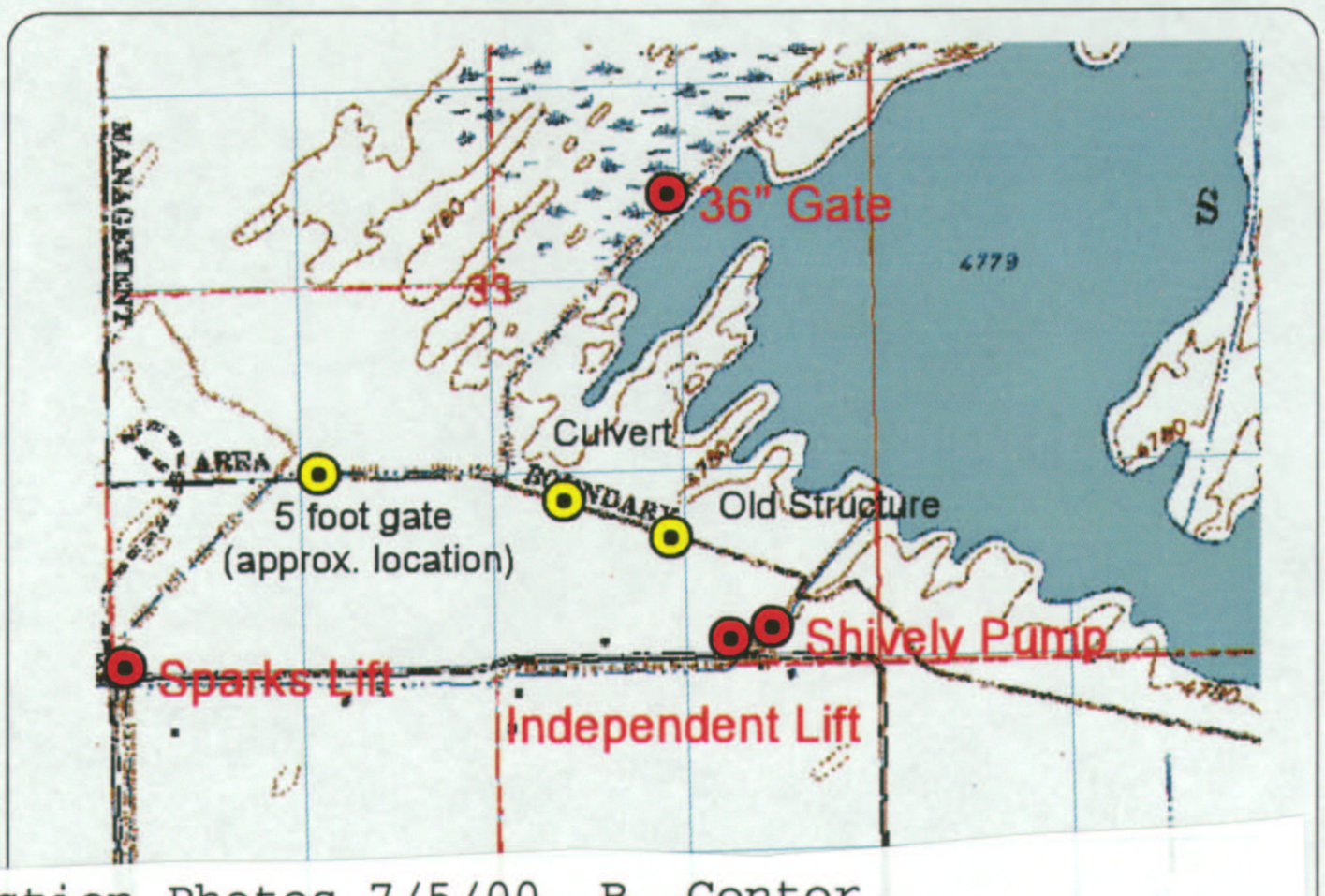
NOV 1 4 2002

AJ Field Inspection Photograph 7/5/2000

Culvert Between Sparks & Lake 7N 34E 33 SE



Red features by GPS, Yellow features approximate location

AJ Field Inspection Photos 7/5/00 B. Contor

Culvert between North Lake Well Channel and Mud Lake Channel, 7N 34E 33 SE ¼, looking E NE.

Mud Lake Water Users GW and Surface Claims.

This culvert could be closed (see flanges for slide gate), though I did not see a gate present and expect this is not a common practice. If this gate were closed and the structure in 7N 34E NWNE were checked up, then the Sparks Lift in 7N 34E 33 SWSWSW would only lift North Lake Well Field water, and the North Lake Well Field would not contribute to the lake.

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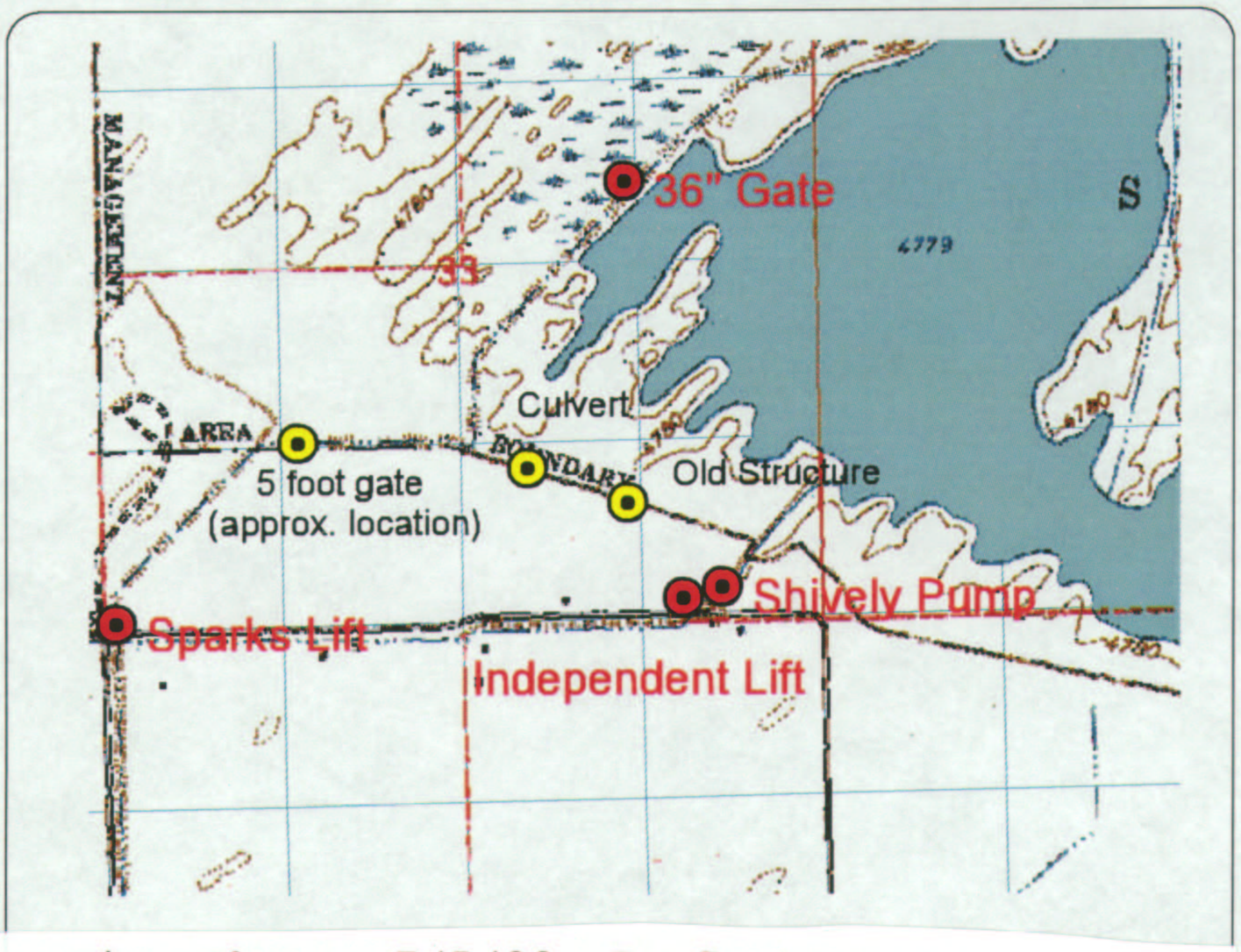
AJ Field Inspection Photograph 7/5/2000

Old Structure 7N 34E 33 SE



Red features located by GPS, Yellow features location approximate

AJ Field Inspection Photos 7/5/00 B. Contor

Old structure in channel between North Lake Well Channel and Mud Lake, 7N 34E 33 SE ¼, looking NE.

Mud Lake Water Users GW and Surface Claims.

See narrative to "Culvert" in same quarter section. This may have been an older structure to accomplish the same purposes as the current culvert.

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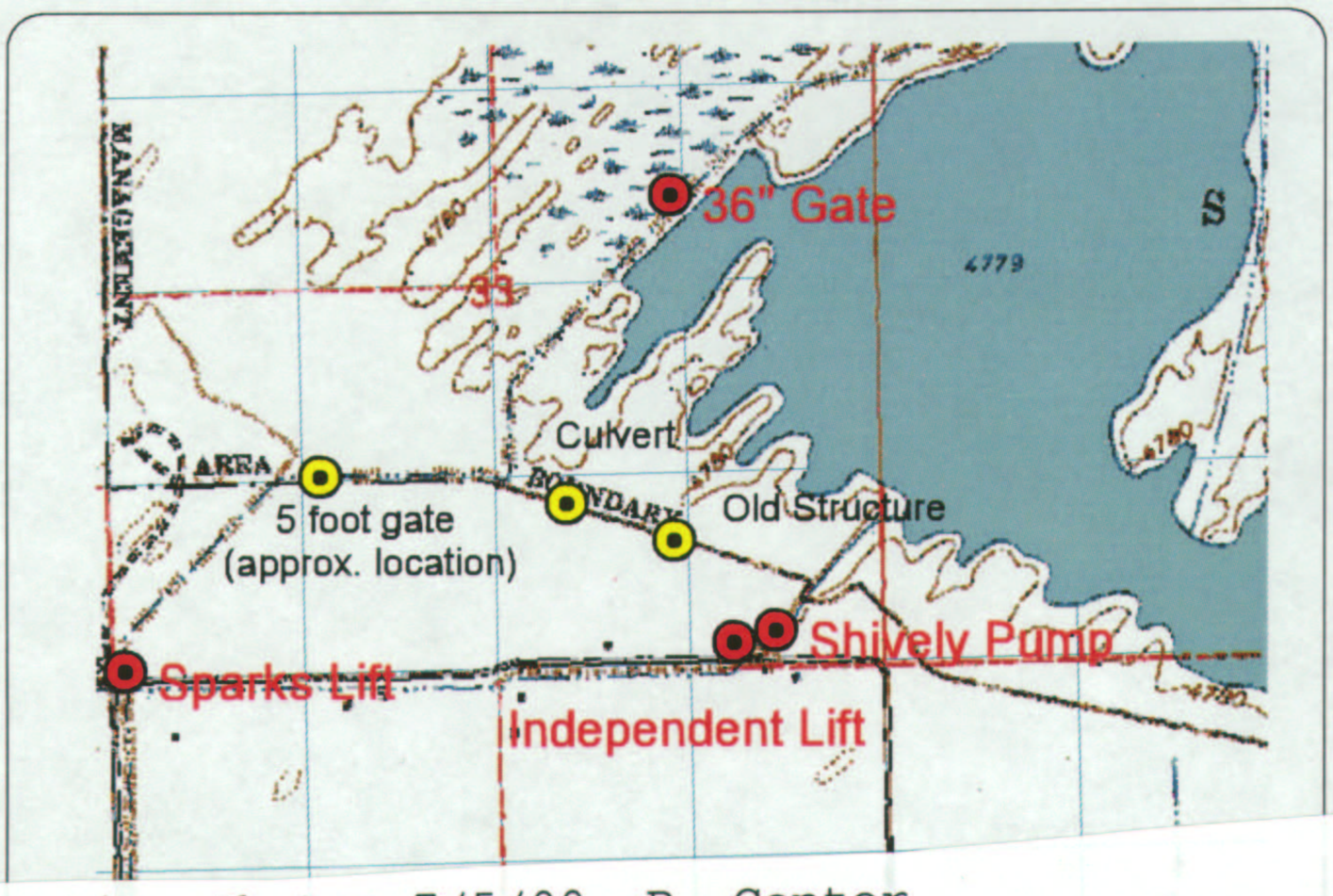
AJ Field Inspection Photograph 7/5/2000

Sparks Lift 7N 34E 33 SWSWSW



Red features located by GPS, yellow features location approximate

AJ Field Inspection Photos 7/5/00 B. Contor

Sparks Lift, 7N 34E 33 SWSWSW, looking W SW.

Mud Lake Water Users GW and Surface claims. POD is approx. 1 mile east in 7N 34E NWSWSW.

This lift is generally supplied by the North Lake Well Field; on 7/5/2000 all three pumps were running here and water from the North Lake Well Field was supplying all this lift's needs and still contributing water eastward to the lake through the culvert in 7N 34E 33 SW ¼ (see photo), as well as southward to the lake at the check structure in 7N 34E 34 NWNE.

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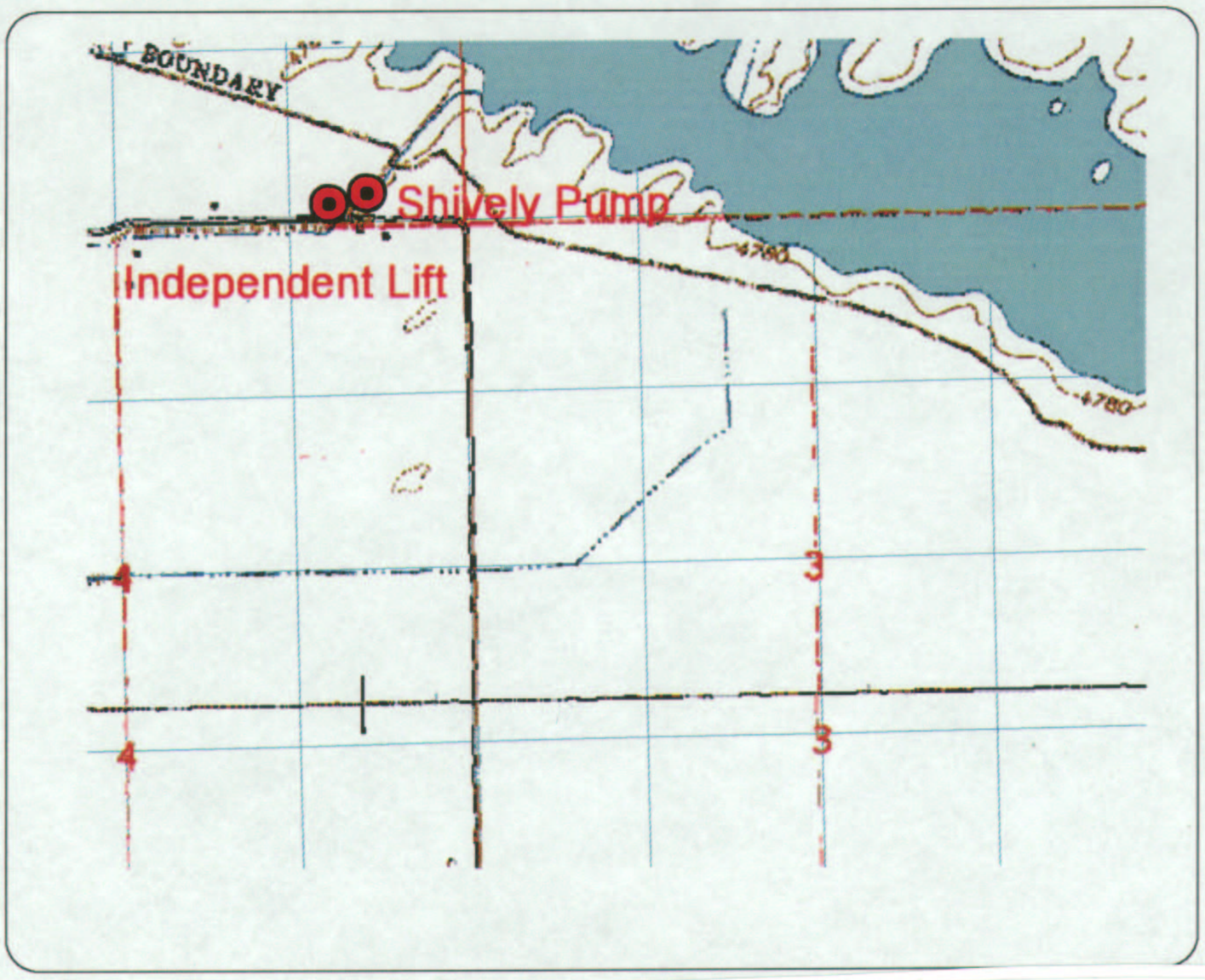
AJ Field Inspection Photograph 7/5/2000

Shively Pump 7N 34E 33 SESE



AJ Field Inspection Photos 7/5/00 B. Contor

Shively pump, 7N 34E 33 SESE, looking SW and S SW.

Mud Lake Water Users GW and Surface claims. POD is approx 1400 ft NE in 7N 34E 34 NWSWSW.

No site tag.

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NOV 14 2002

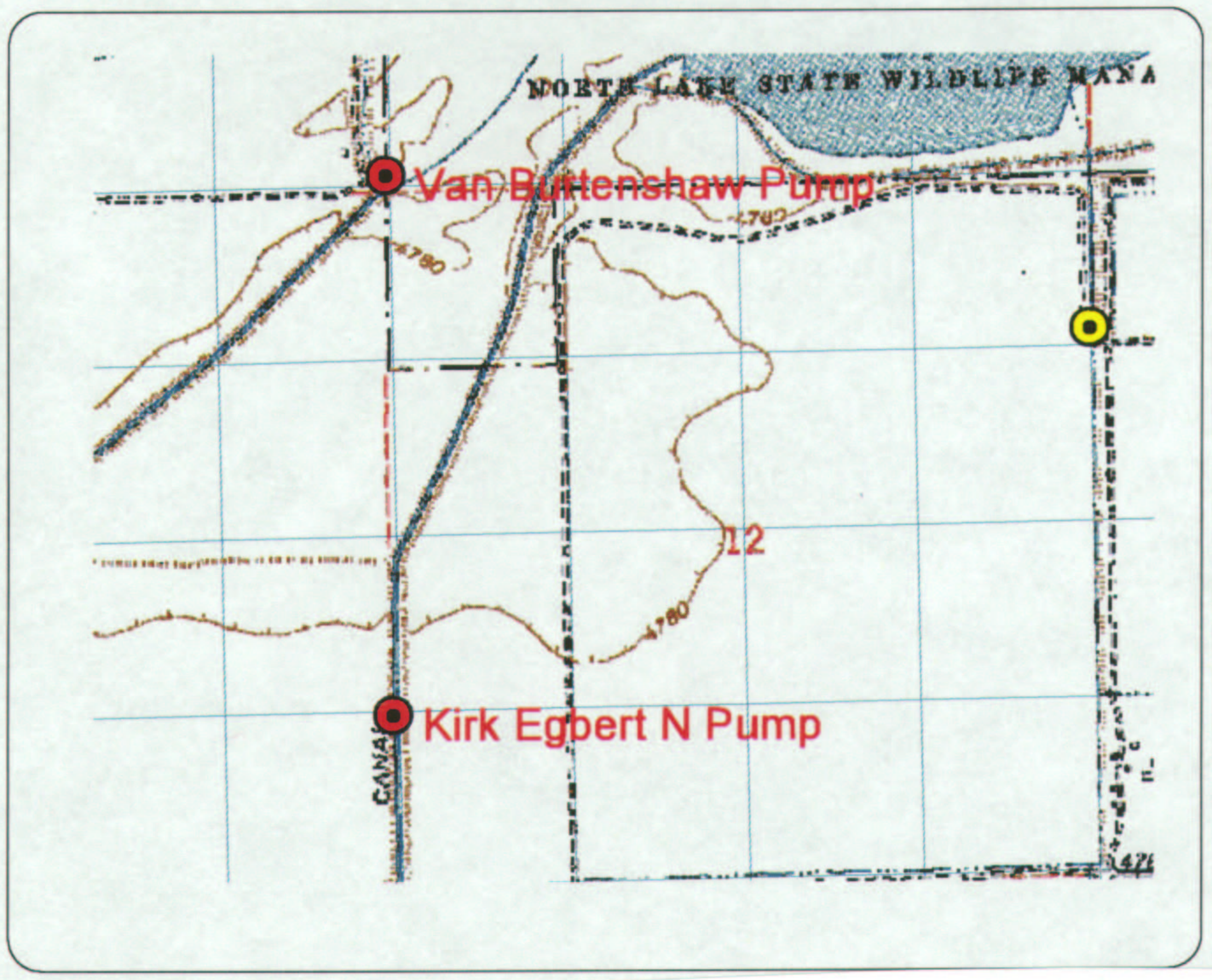
looking S-SW

looking SW

Locator Map for Photograph

Van Burtenshaw Lift

6N 34E 1 SWSWSW



AJ Field Inspection Photos 7/5/00 B. Contor

Van Burtenshaw Lift, 6N 34E 1 SWSWSW, looking E.

Mud Lake Water Users Surface and GW claims, Independent GW claims, Burtenshaw SW claims. POD is approx. 3/8 mile NE in 6N 34E 1 SESW.

No site tag.

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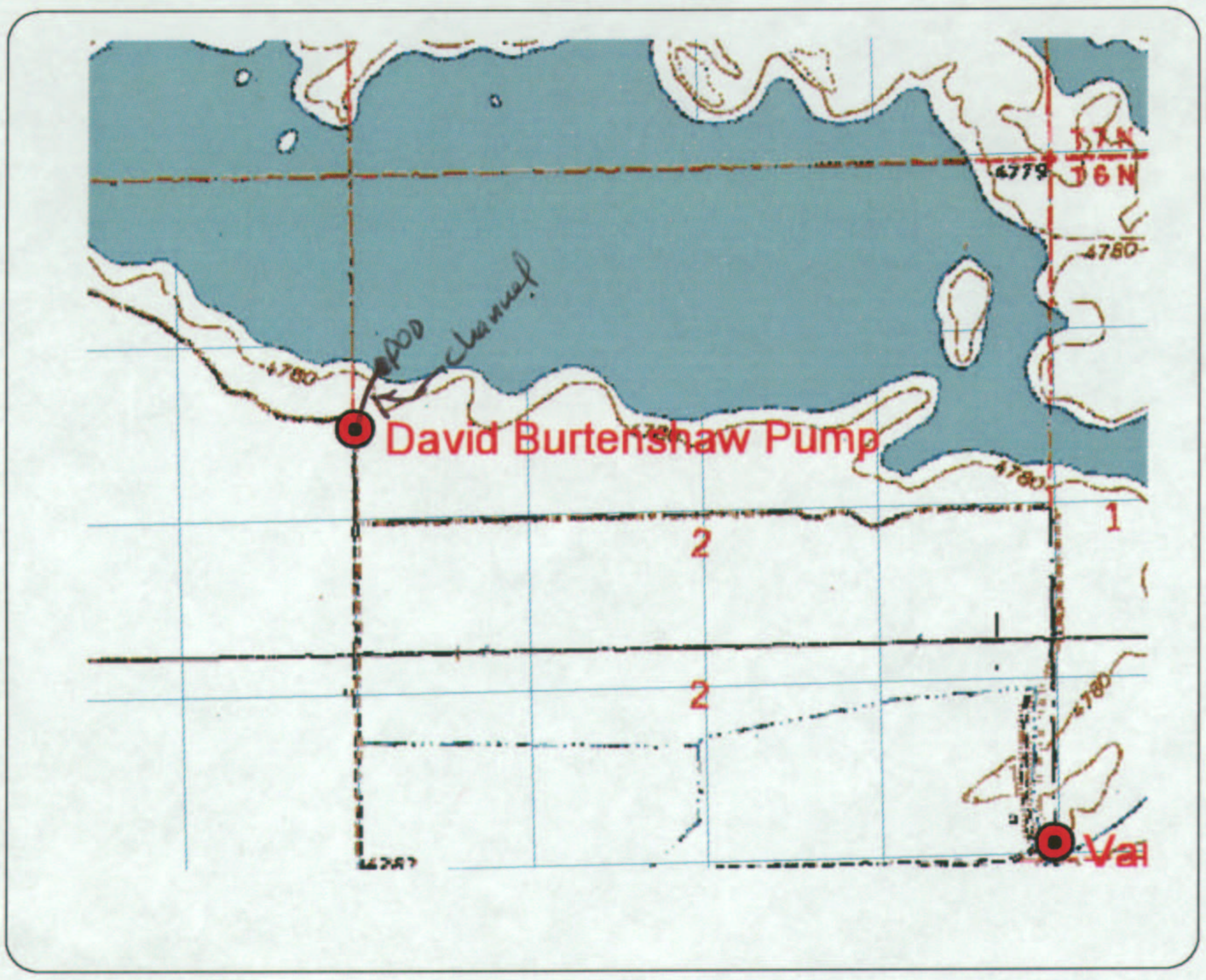
NOV 1 4 2002

AJ Field Inspection Photograph 7/5/2000

David Burtenshaw Pump 6N 34E 1 NWSW



AJ Field Inspection Photos 7/5/00 B. Contor

David Burtenshaw pump, 6N 34E 1 NWSW, looking E.

Mud Lake Water Users GW and Surface claims. POD is approx. 700 ft N NE in 6N 34E 1 SWNW.

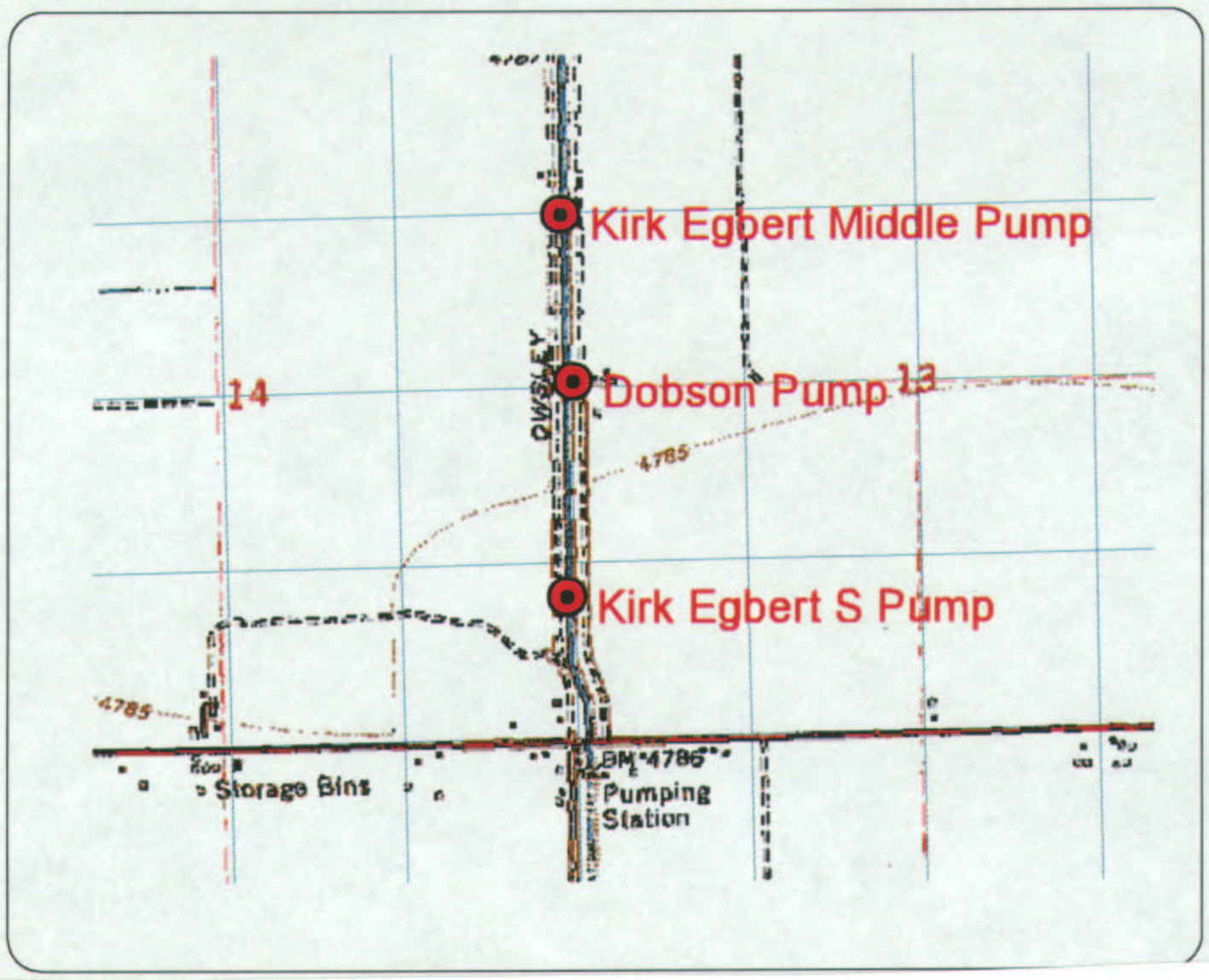
No site tag.

SCANNED
NOV 1 4 2002

Locator Map for Photograph

Egbert South Pump

6N 34E 14 SE 1/4



AJ Field Inspection Photos 7/5/00 B. Contor

Egbert South Pump, 6N 34E 14, SE ¼, looking SE.

Mud Lake Water Users Surface and GW claims. POD is approx. 2 ¼ miles north in 6N 34E 1 SESW.

Site tag A0008624

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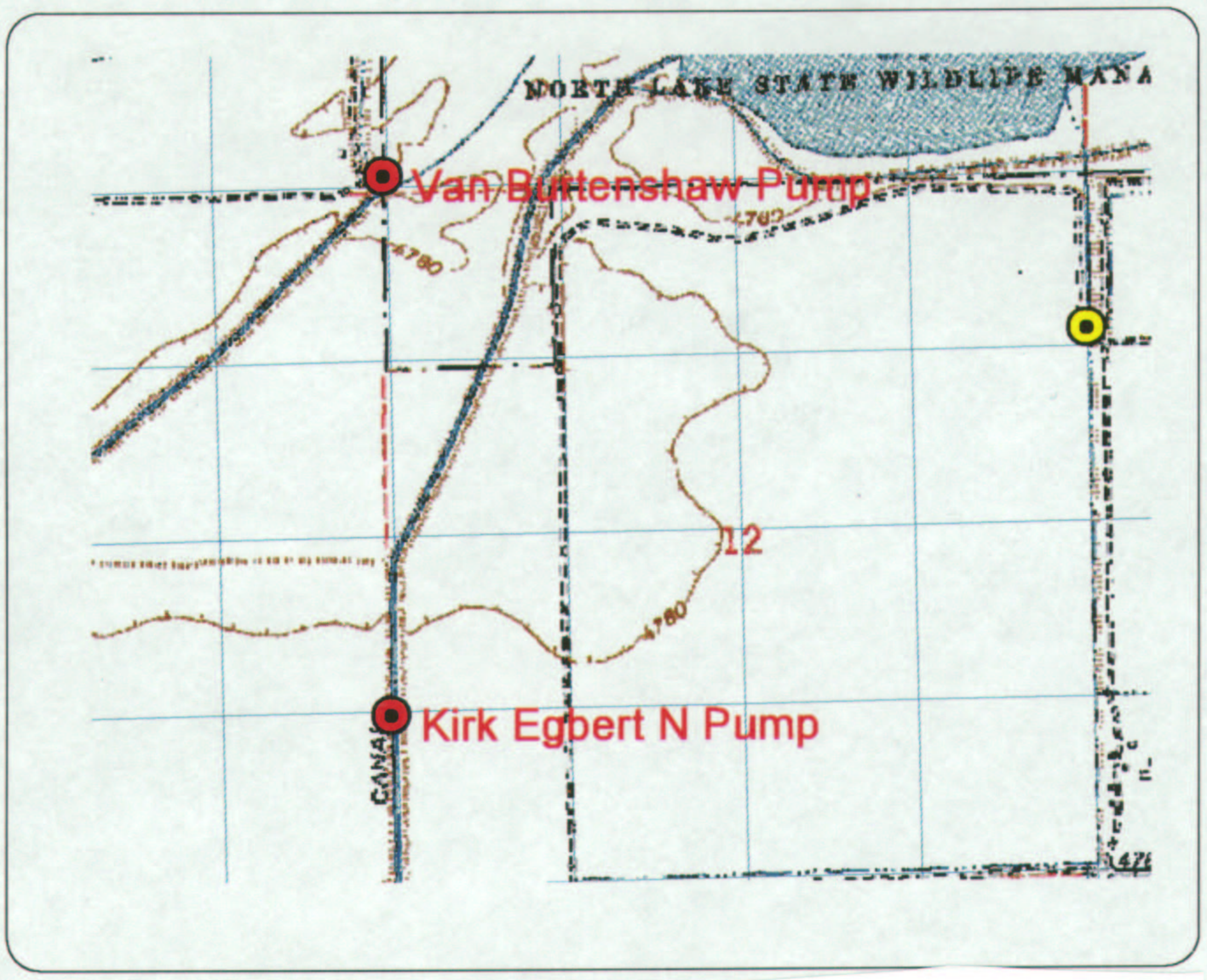
NOV - 8 2002

Locator Map for Photograph

Egbert North Pump

6N 34E 11 SE 1/4



AJ Field Inspection Photos 7/5/00 B. Contor

Egbert North Pump, 6N 34E 11 SE ¼, looking N NE.

Mud Lake Water Users Surface and GW claims. POD is approx. 1 ¼ miles north in 6N 34E 1 SESW.

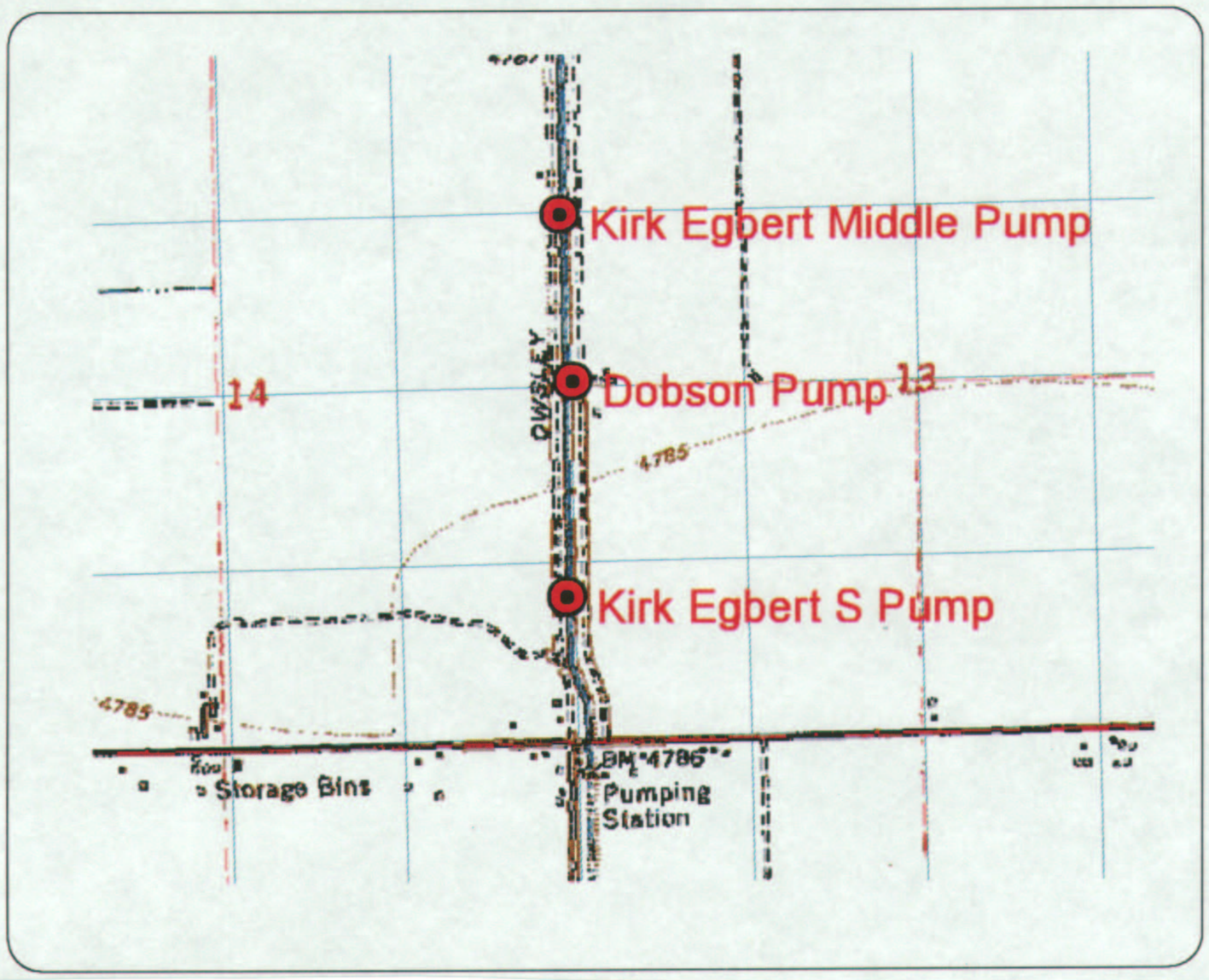
No site tag.

SCANNED
NOV - 8 2002

Locator Map for Photograph

Egbert Middle Pump

6N 34E 14 NE 1/4



AJ Field Inspection Photos 7/5/00 B. Contor

Egbert Middle Pump, 6N 34E 14 NE ¼, looking N NE.

Mud Lake Water Users Surface and GW claims. POD is approx. 1 ¾ miles north in 6N 34E 1 SESW.

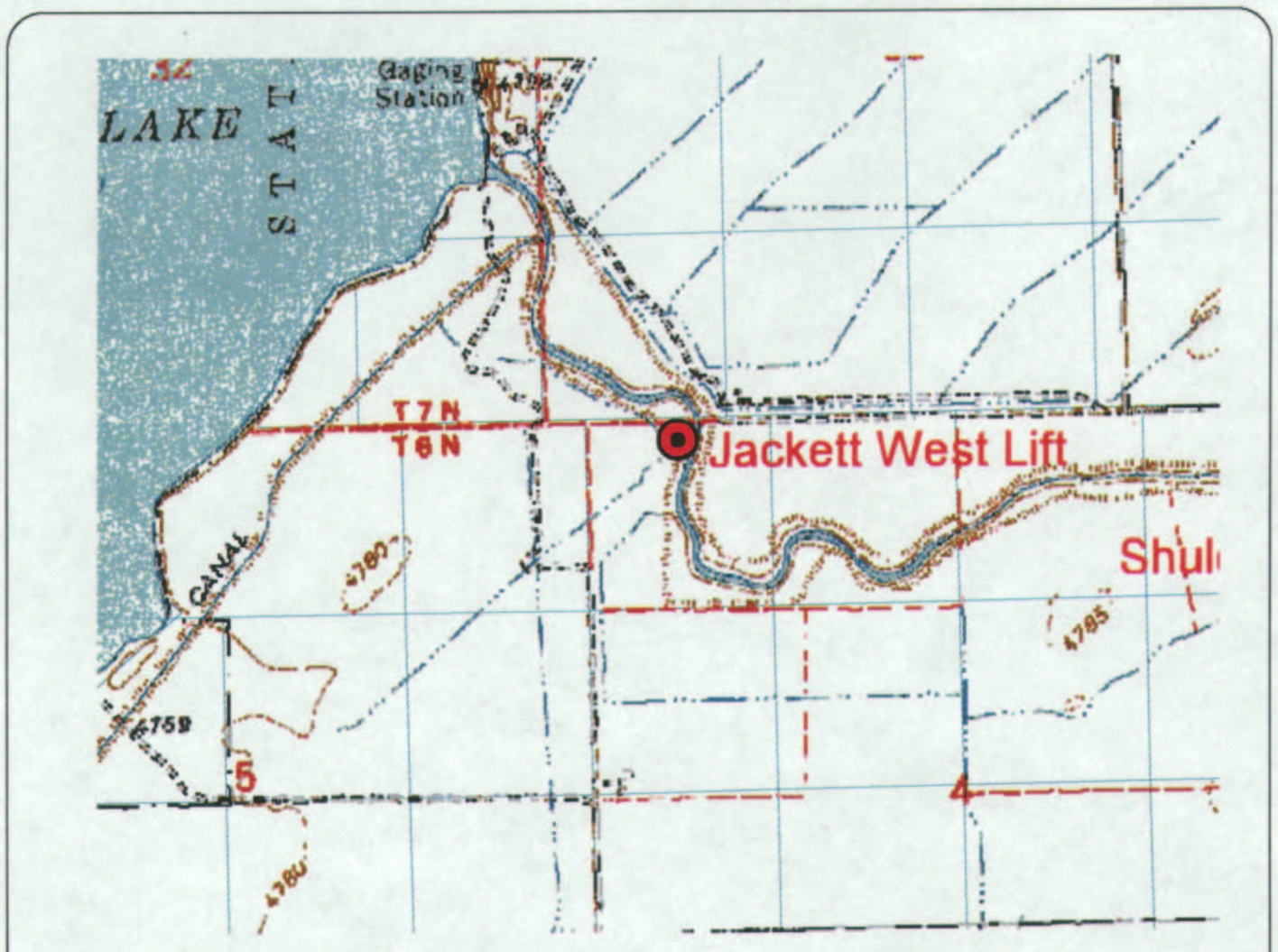
No site tag.

SCANNED
NOV - 8 2002

Locator Map for Photograph

Jackett West Lift

6N 35E 4 NW 1/4



AJ Field Inspection Photos 7/5/00 B. Contor

Jackett West Lift, 6N 35E 4 NW ¼, looking NW.

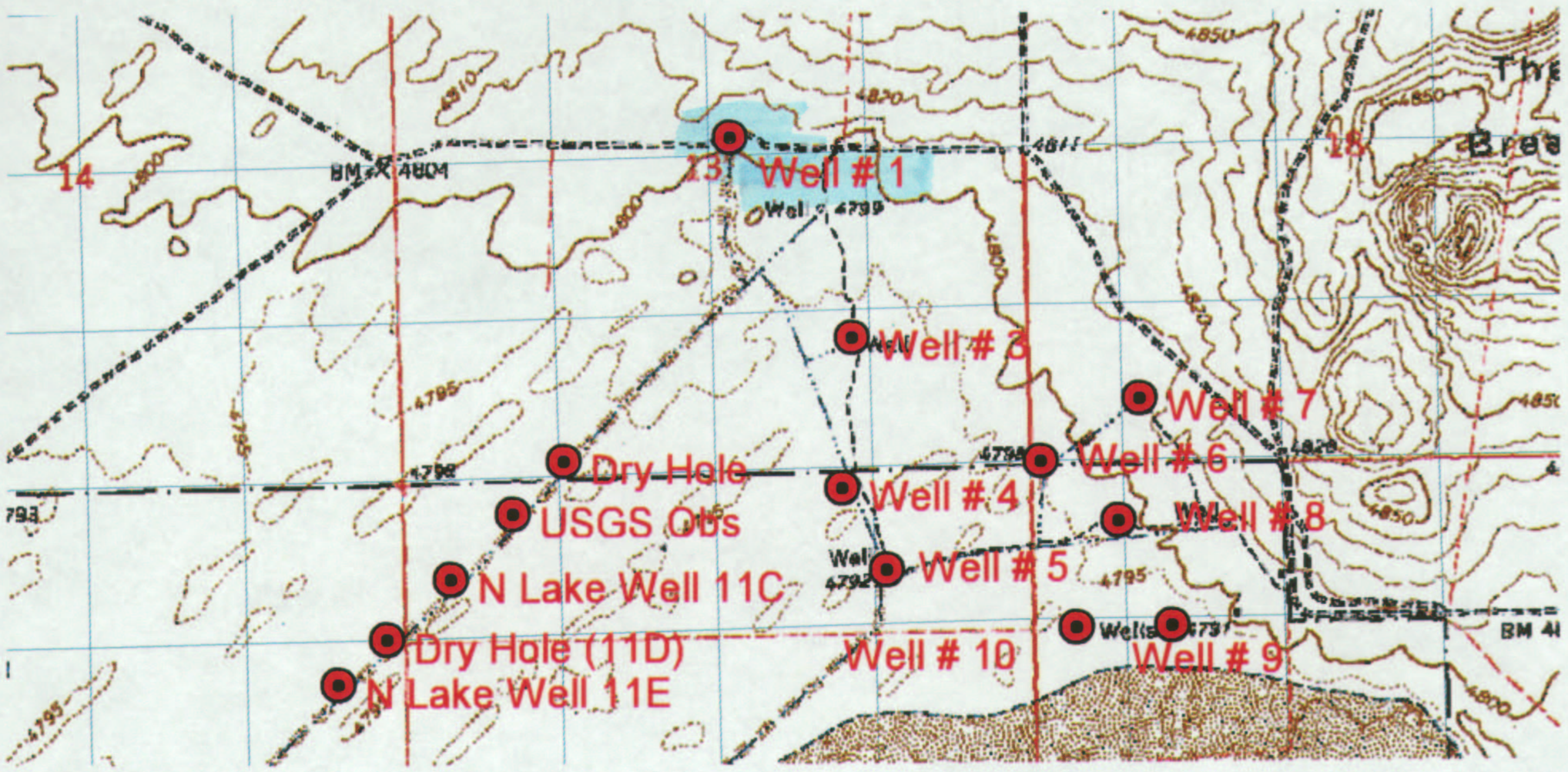
Mud Lake Water Users Surface and GW claims.

Site tag A0008622

SCANNED
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well #1 A0008609

Motor nameplate 75 hp

Mud Lake Water Users GW claims

photos by B. Coulton

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NOV - 8 2002

Holley Creek pump / well #8,
Mud Lake Water Users GW / Surface Claims

Canvas Creek pump (#9) looking West

Well (#8) looking SW

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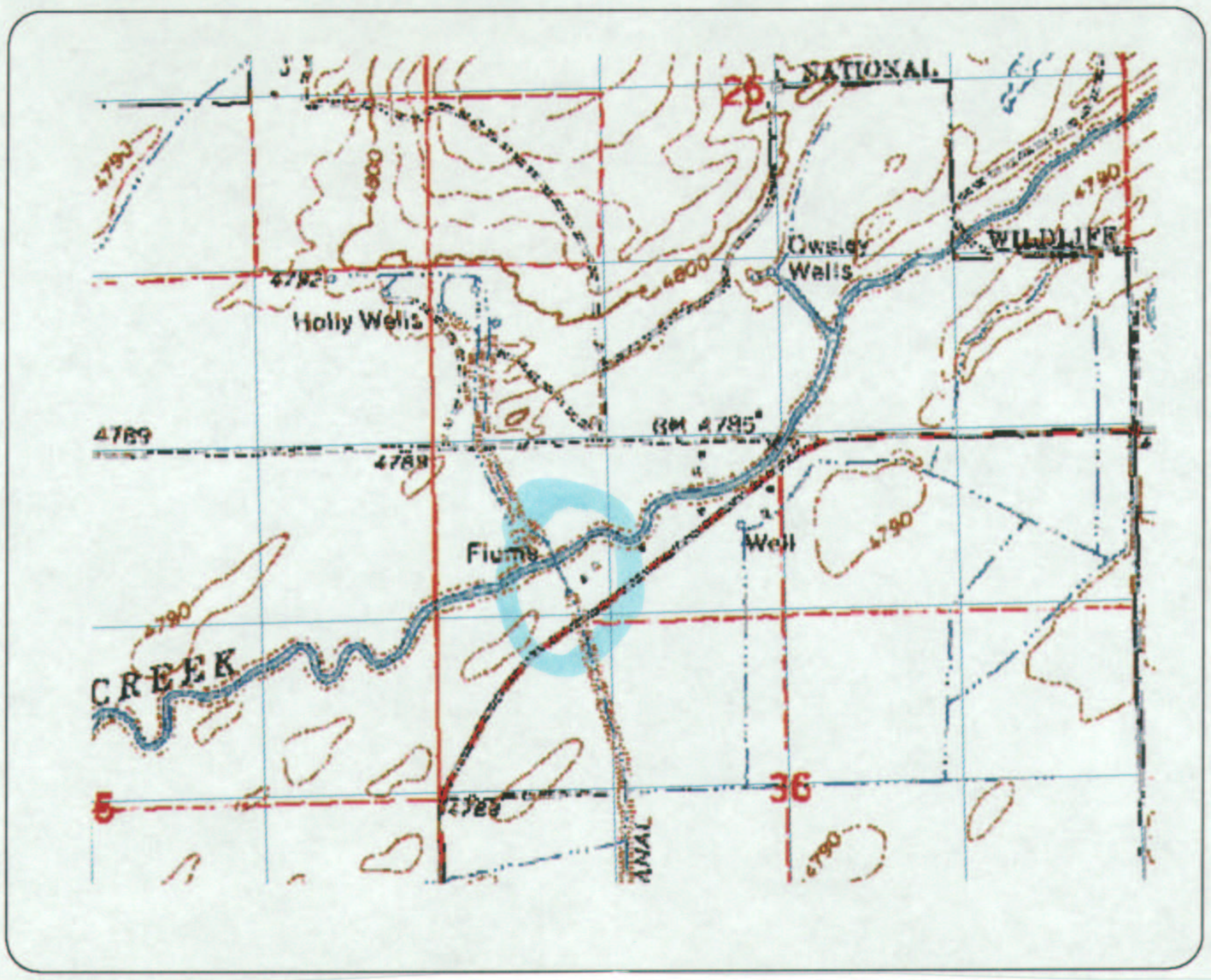
NOV - 8 2002

photos 7/5/00, B. Conton. See "Holley Flume / pumps" locator map w/ flume photo.

Locator Map for Photograph

Holley Flume and Pumps

7N 35E 36 NW 1/4



AJ Field Inspection Photos 7/5/00 B. Contor

Holley Flume and Pumps, 7N 35E 36 NW ¼, looking North.

Mud Lake Water Users Surface and GW claims.

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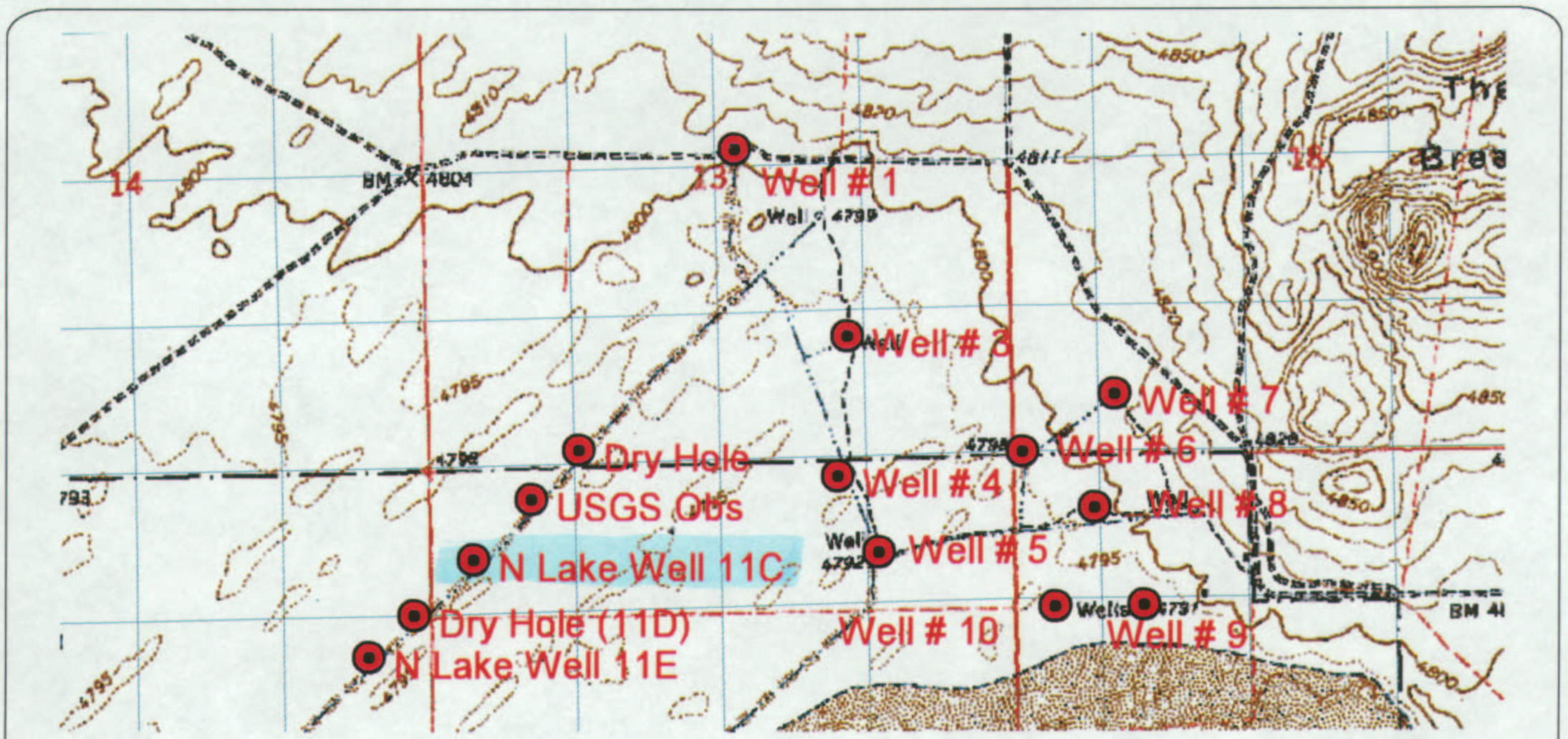
AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well 11C A0008610

Motor hp not recorded,

200 hp per claimants' list

Mud lake Water Users GW claims

photo by B. Coulter

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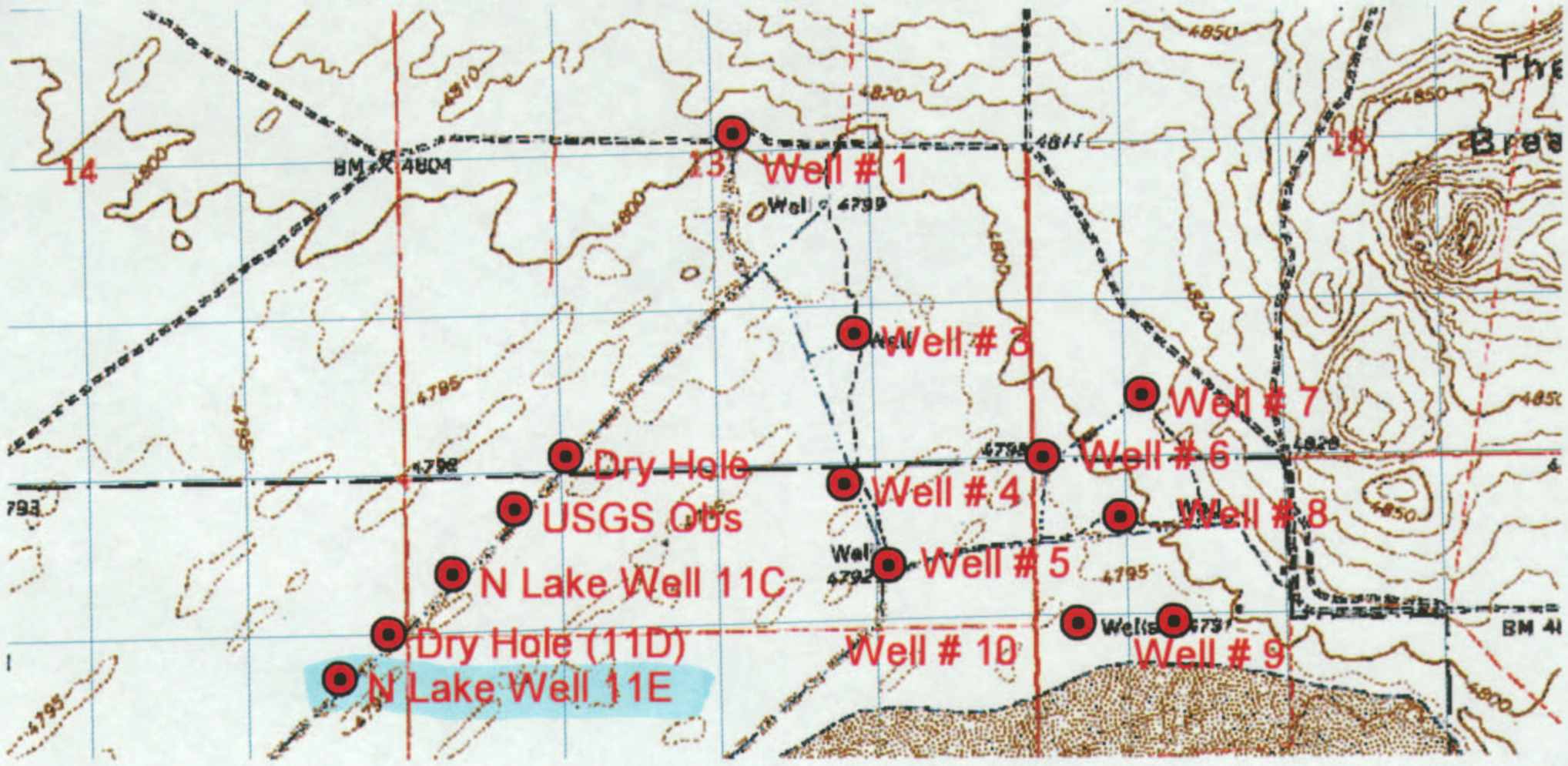
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well 11E A0008611

Motor hp 200 (nameplate)

Mud Lake Water Users GW claims

photo by B. Conton

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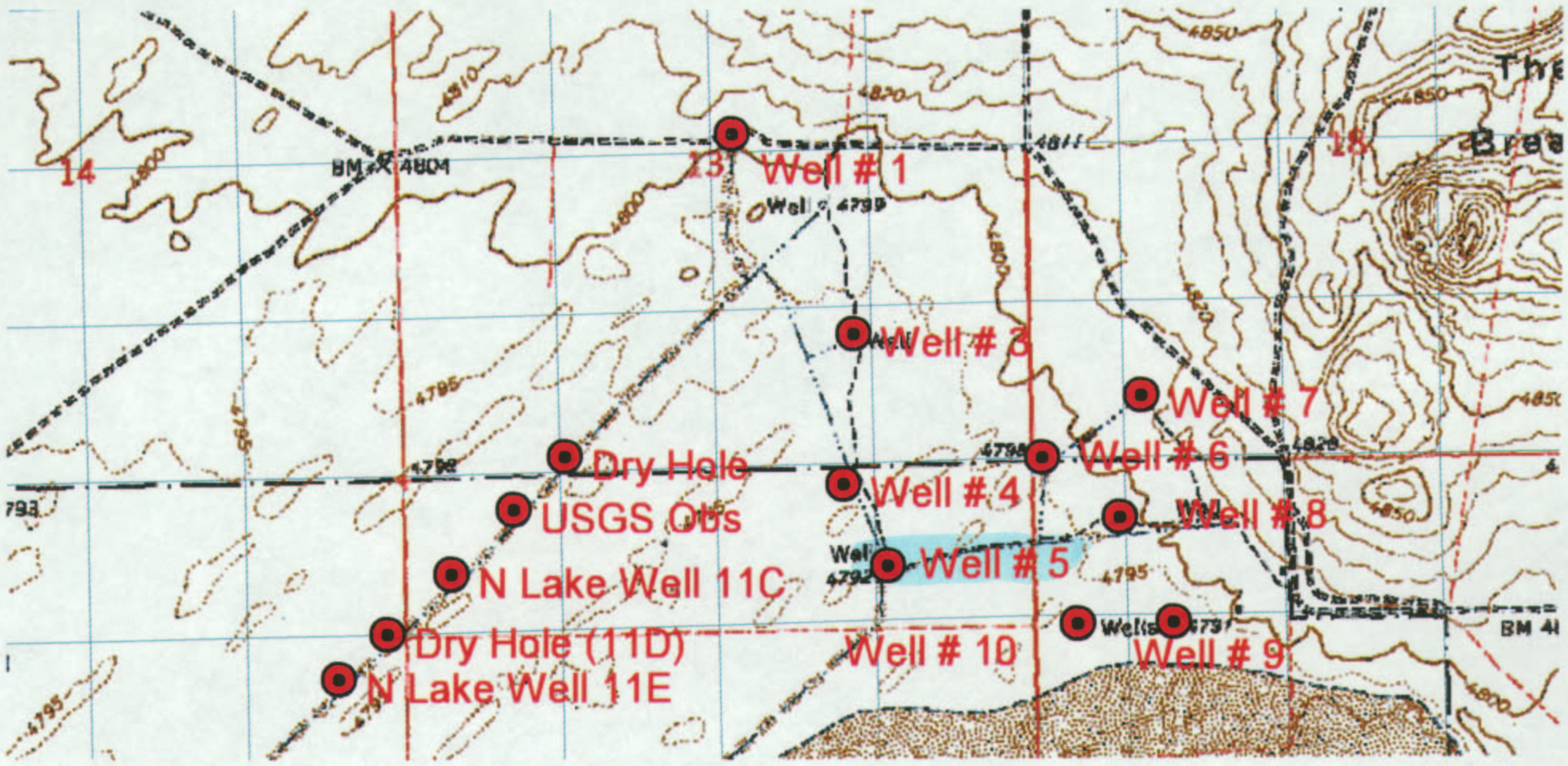
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well #5 A0008613
Motor nameplate 75 hp
Mud Lake Water Users GW claims
photo by B. Courton

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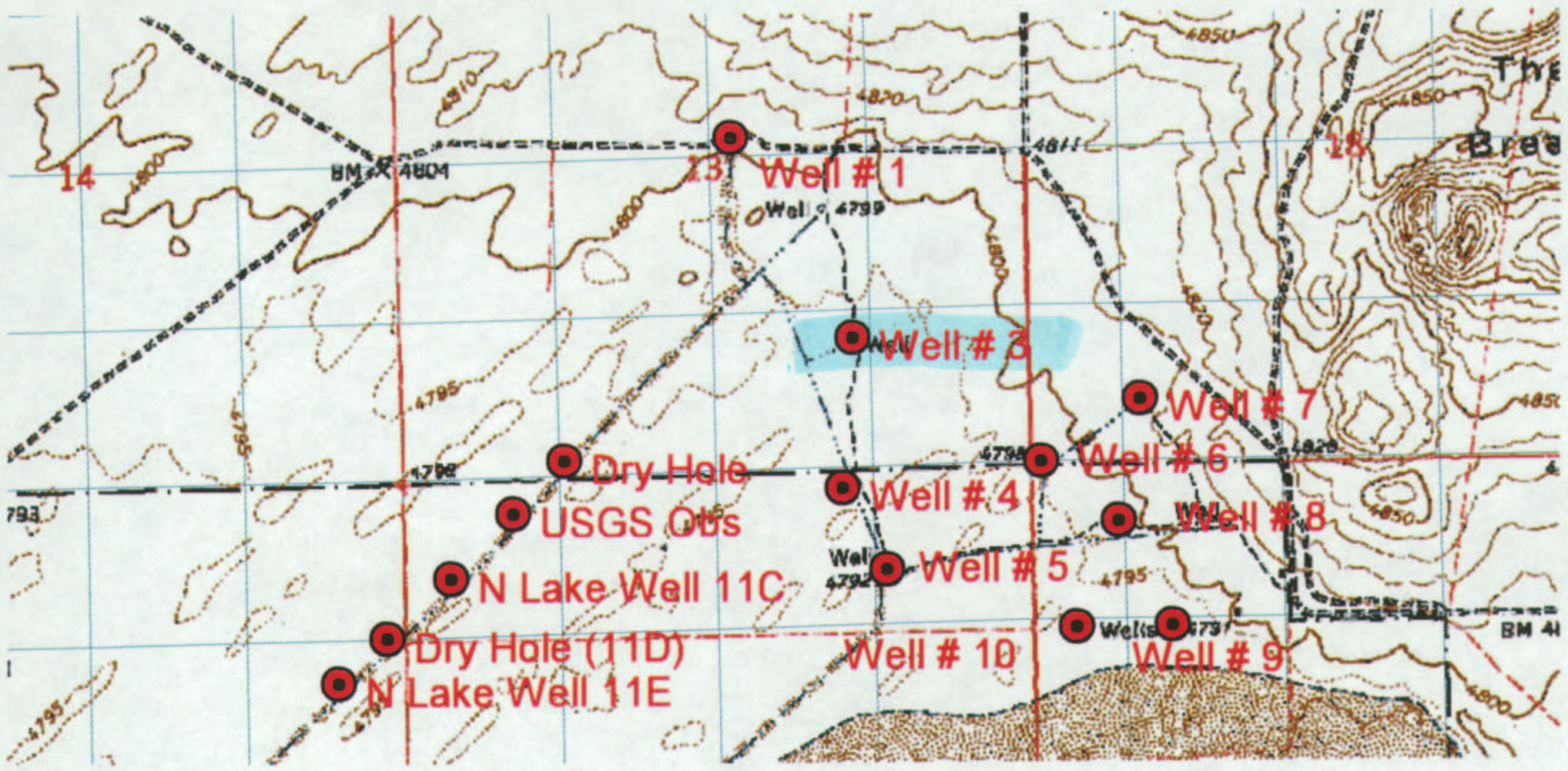
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well #3 A0008612
Motor nameplate 75 hp
Mud Lake Water Users GW
claims.
Photo by B. Coulton

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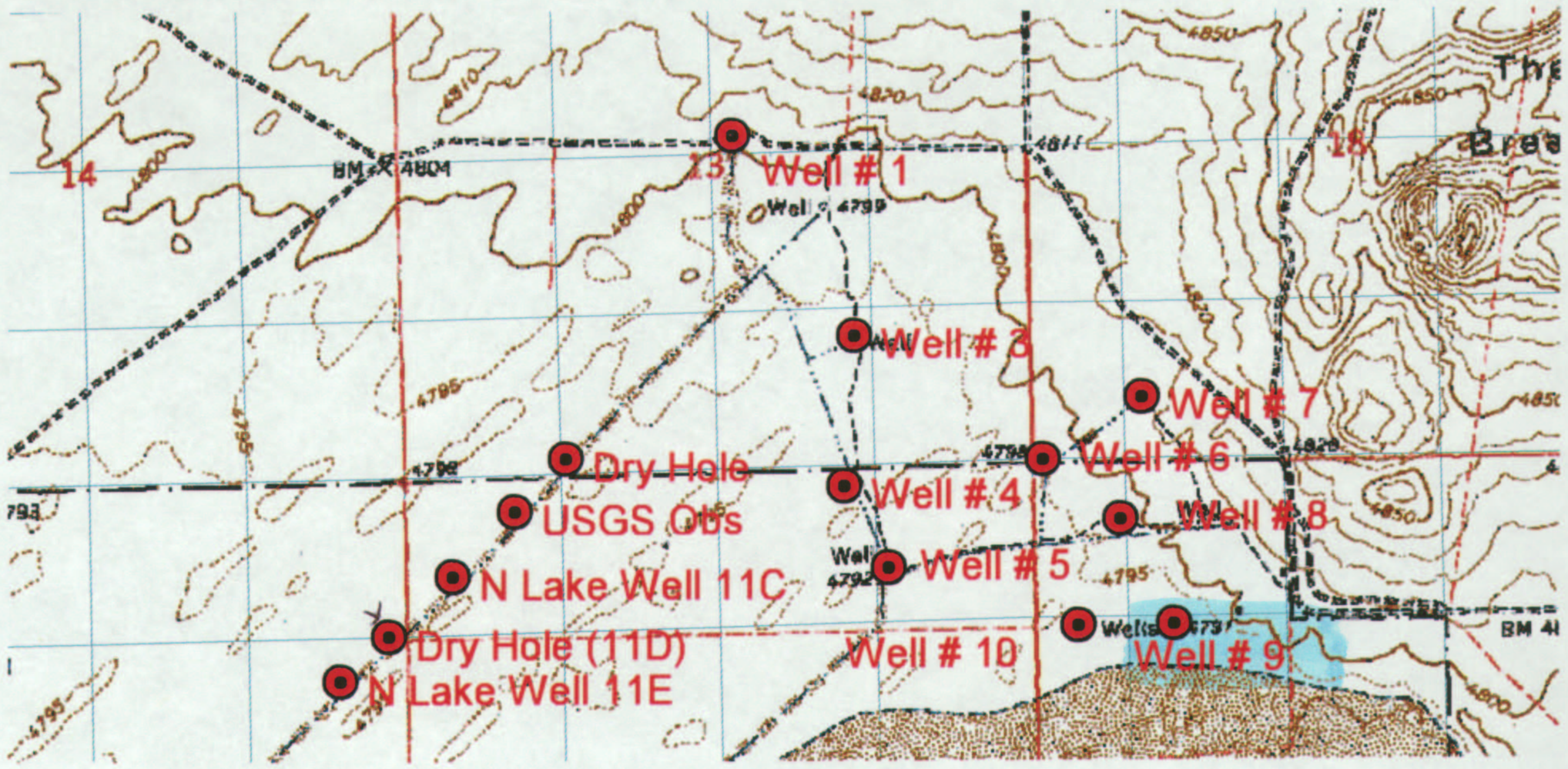
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well #9 A0008619
Motor nameplate 100
Mud Lake Water Users GW Claims
photo by B. Corton

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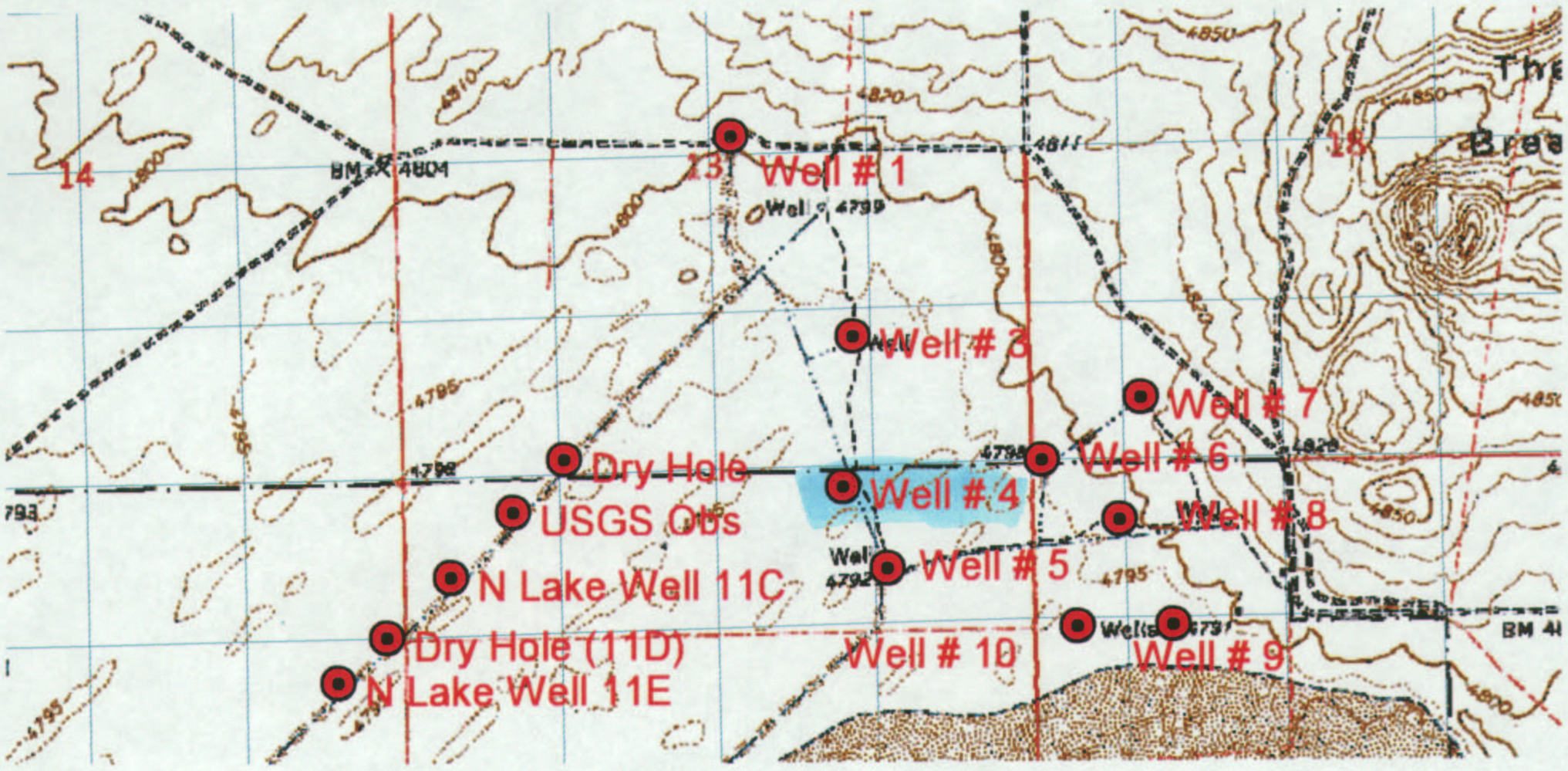
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well #4 A0008614

Motor nameplate 75 hp.

Mud Lake Water Users GW claims

photo by B. Contor

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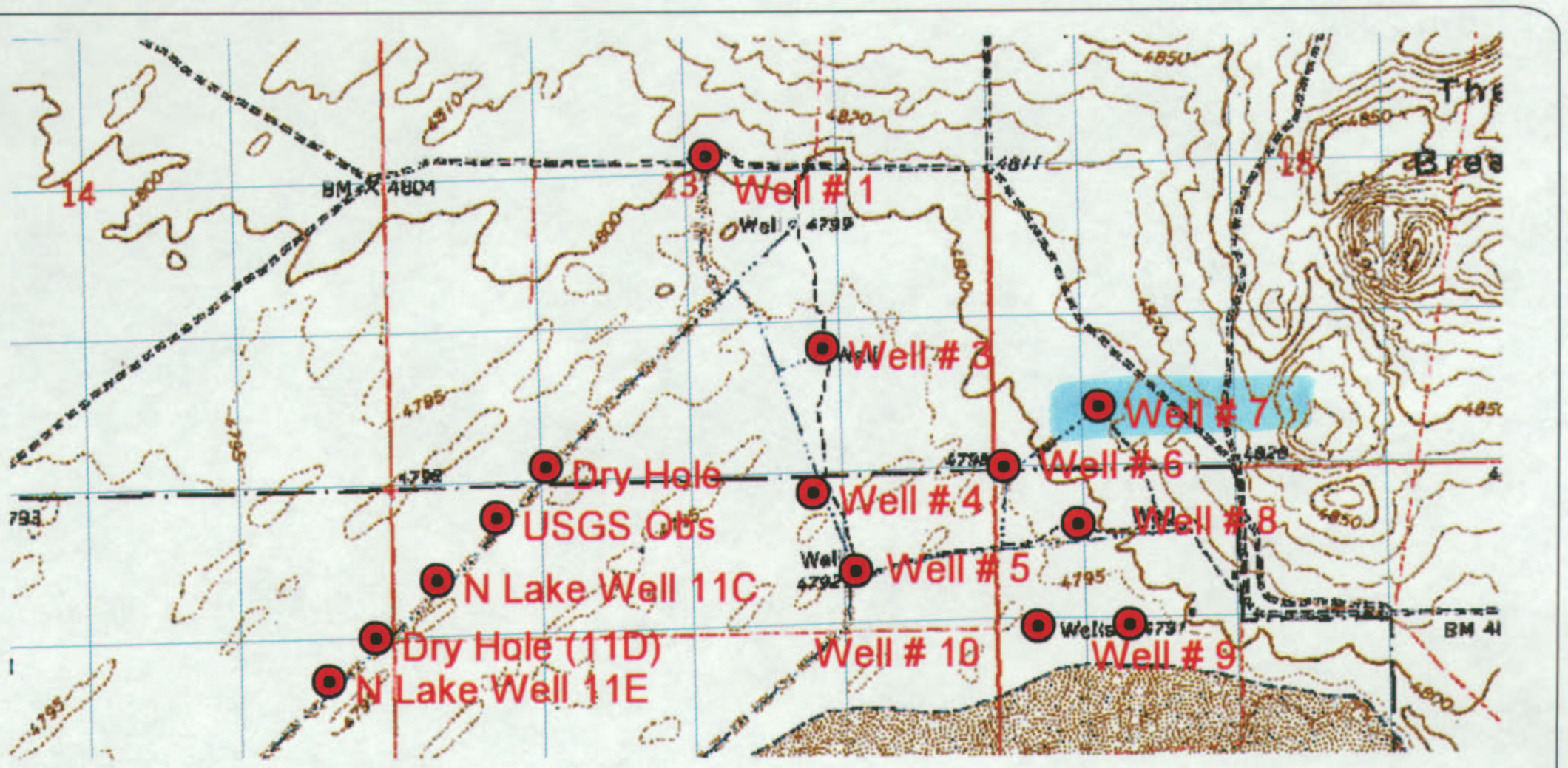
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well #7 A0008616

Motor nameplate 125 hp.

Mud Lake Water Users GW claims

photo by B. Coutor

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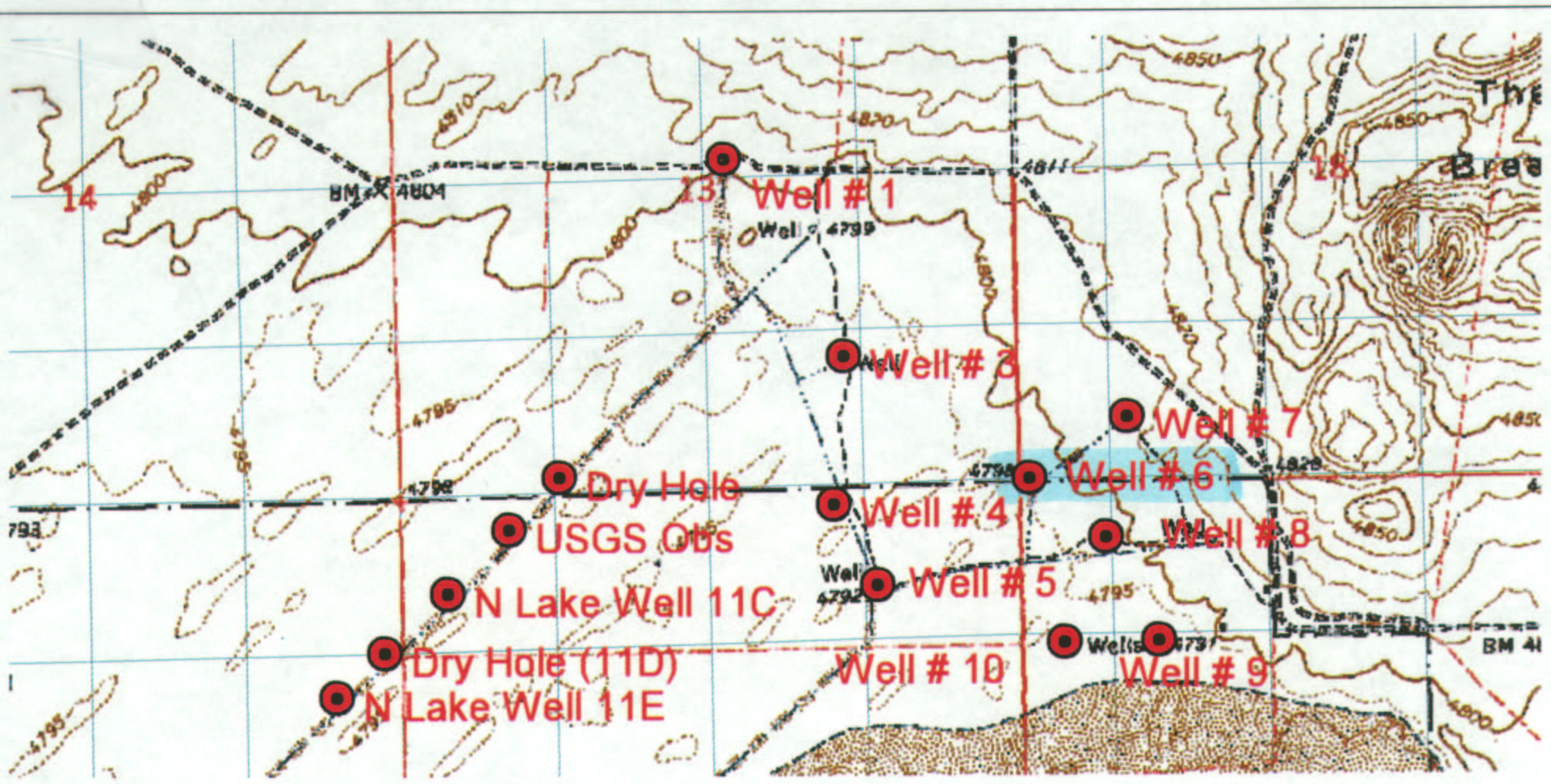
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well #6 A0008615
Motor nameplate 100 hp.
Mud Lake Water Users GW Claims
photo by B. Contor

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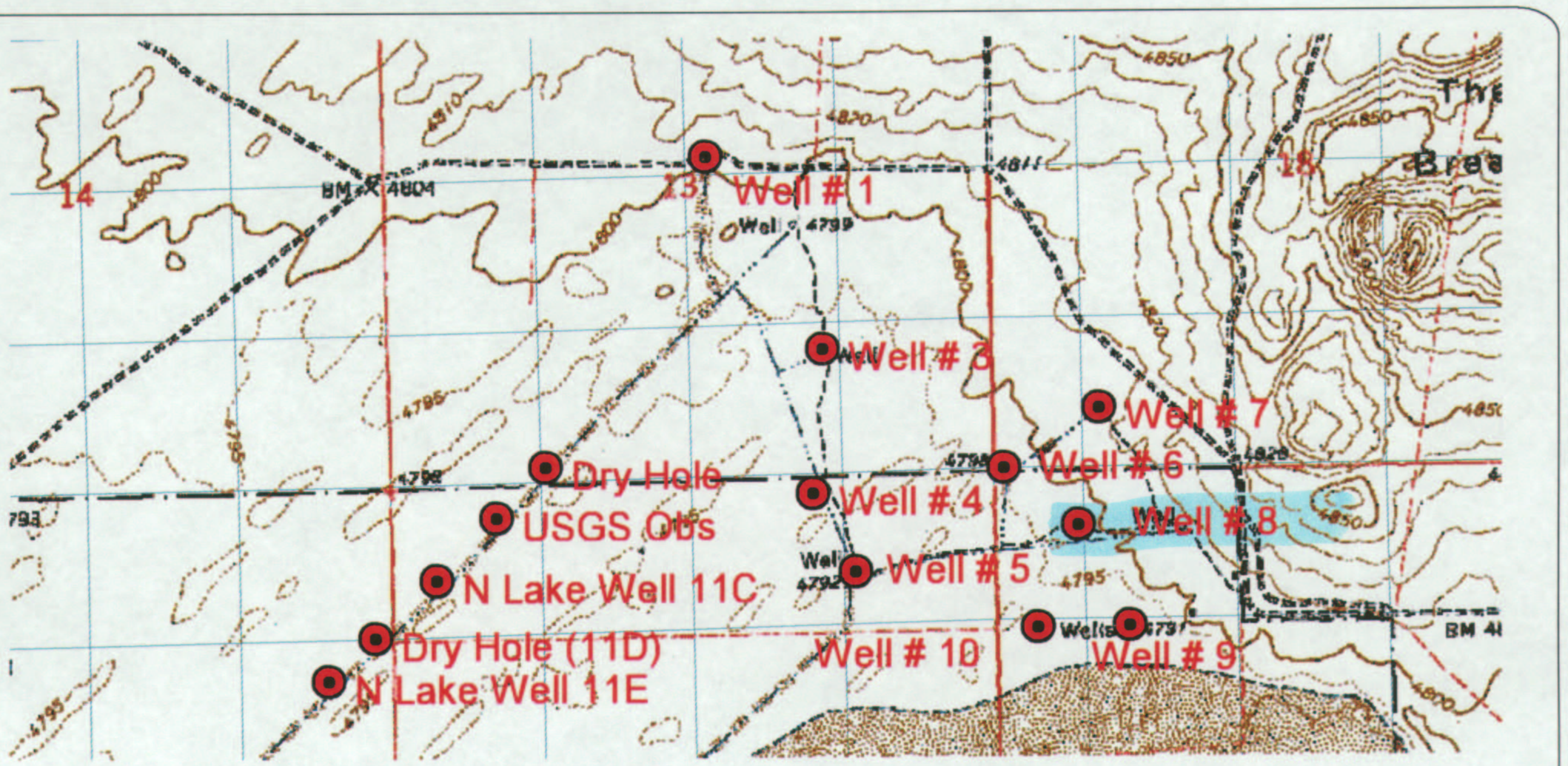
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well #8 A0008617
Motor nameplate 75 hp.
Mud Lake Water Users GW Claims
photo by B. Contor

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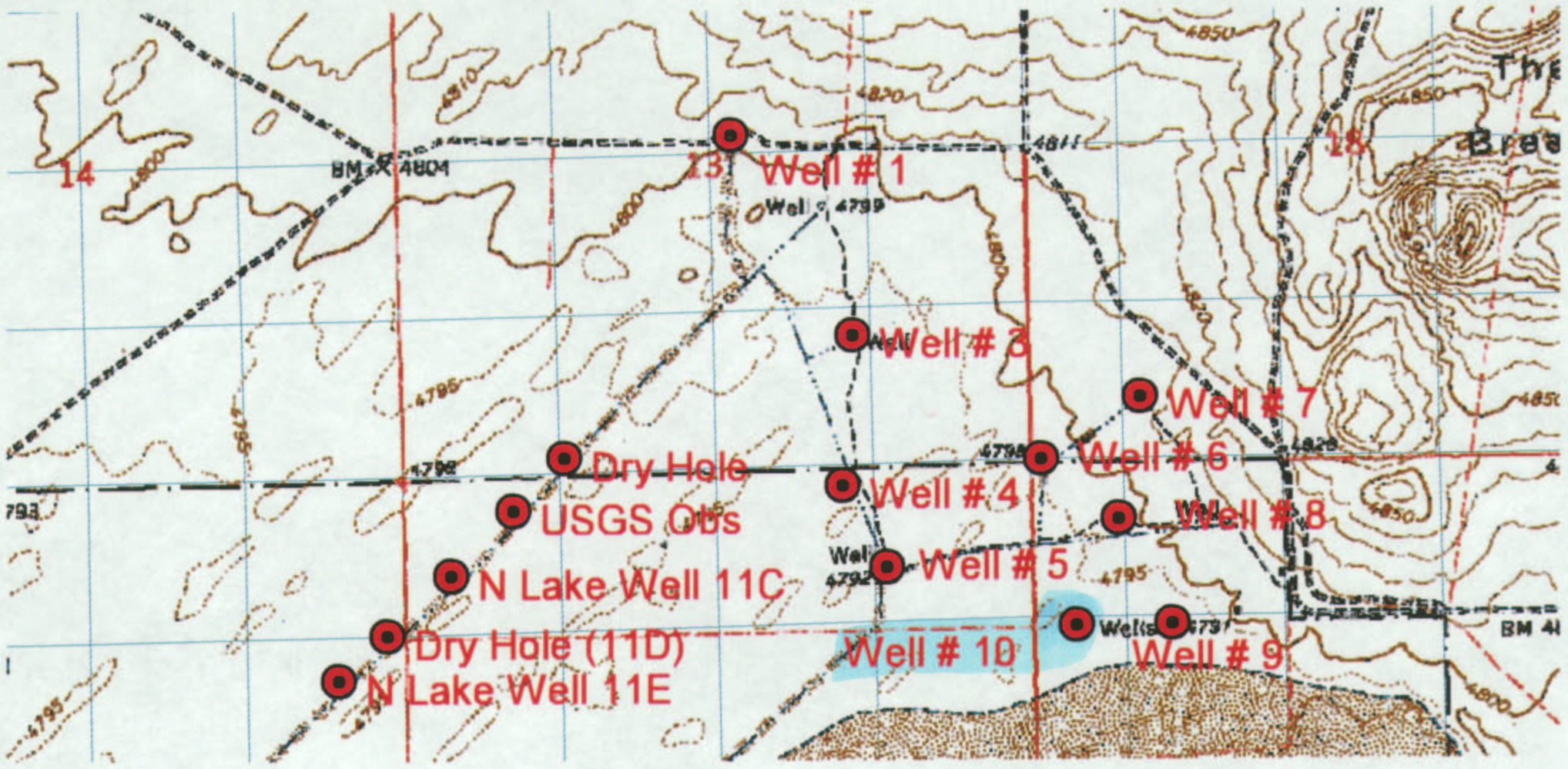
AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well # 10 A0008619
Motor nameplate 100 HP
Mud Lake Water Users GW claims
photo by B. Coutor

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Locator Map for Photograph

Jackett Main Lift

Photo Location

Jackett West Lift

Shuldberg Pump

Jackett Main Lift

AJ Field Inspection Photos 7/5/00 B. Contor

Jackett Main Lift, 6N 35E 3 NW ¼, looking South. Diversion from creek is approximately 300 - 350 feet N NW.

Mud Lake Water Users Surface and GW claims.

Site tag A0008620

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4785

4790

4791

28

27

4785

WILDLIFE MANAGEMENT AREA BOUNDARY

4780

4782

Check

36" Gate

S T A T E

4779

33

34

4785

4785

Sparks Lift

Shively Pump

Independent Lift

4780

4

3

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NOV - 8 2002

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NOV - 8 2002

4817
4813
4798
4872
4850
4800
4810
4790
22
4799
23
24
DITCH
Jadwin
Wells
Well
4786
4792
Well
4792
5
4
3
2
1
4791
Well
4788
Well
4791
INDEPENDENT
4786
Wells
Bunker
Hill
4849
NATION
26
27
25
Owsley
Wells
Holly Wells
4792
4789
BM 4785
BM
4786
4785
Flume
Well
DITCH
INDEPENDENT
4785
4782

Bunker
Hill

NATIONAL

26

4790

WILDLIFE

Owsley
Wells

4800

BM 4785

4790

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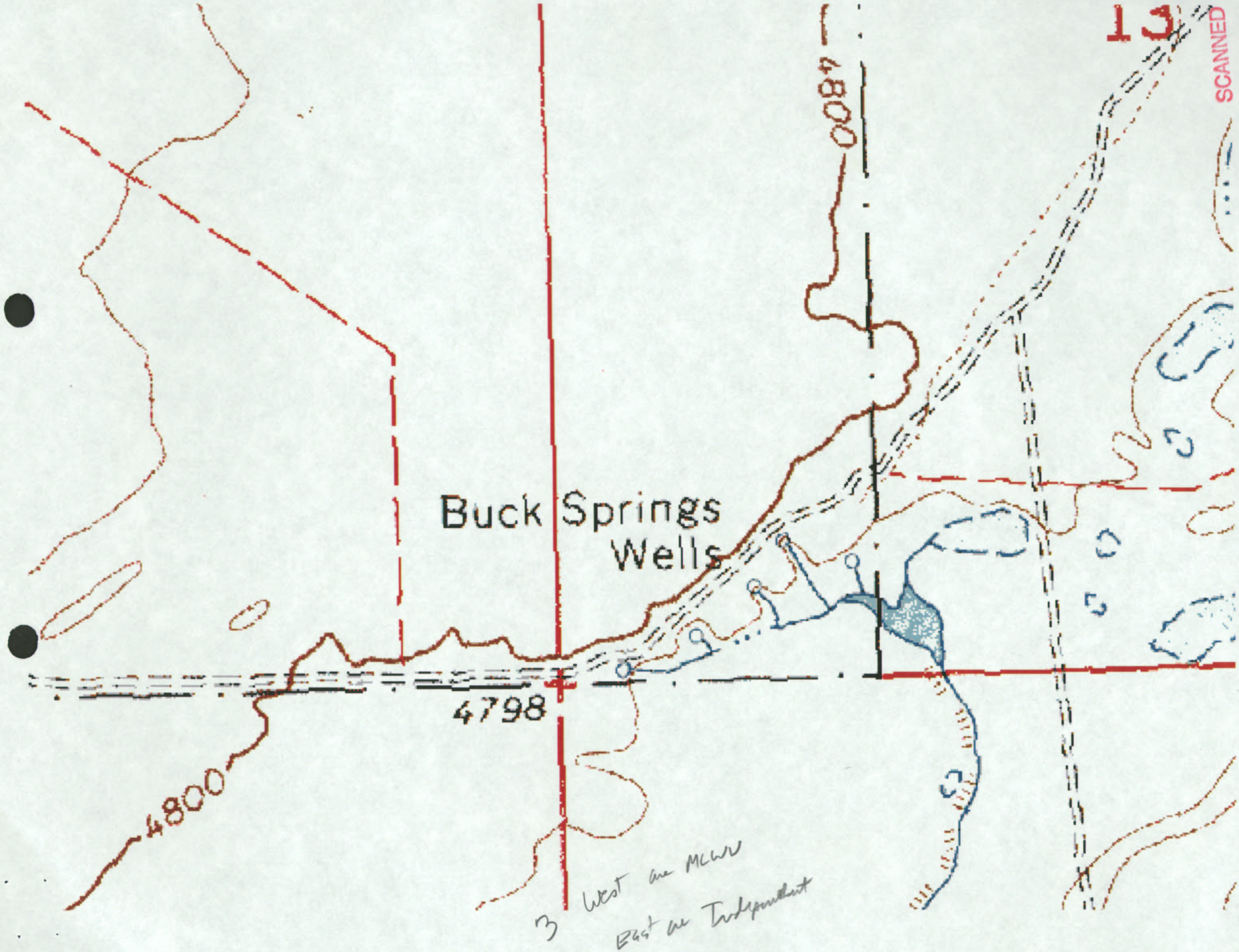
NOV - 8 2002



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NOV - 8 2002

Buck Springs Wells
Cinder Pit
BM 4806
Wells
Well
Wells
Well
Well
Well
Bunker Hill
Holly Wells
Owsley Wells
Flume
Well
BM 4785
BM 4786
Wells
DITCH
DITCH
INDEPENDENT
INDEPENDENT
CREEK
NATIONAL
WILDLIFE
21
22
23
24
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34
35
36

Mud Lake Water Users Wells
October, 2000

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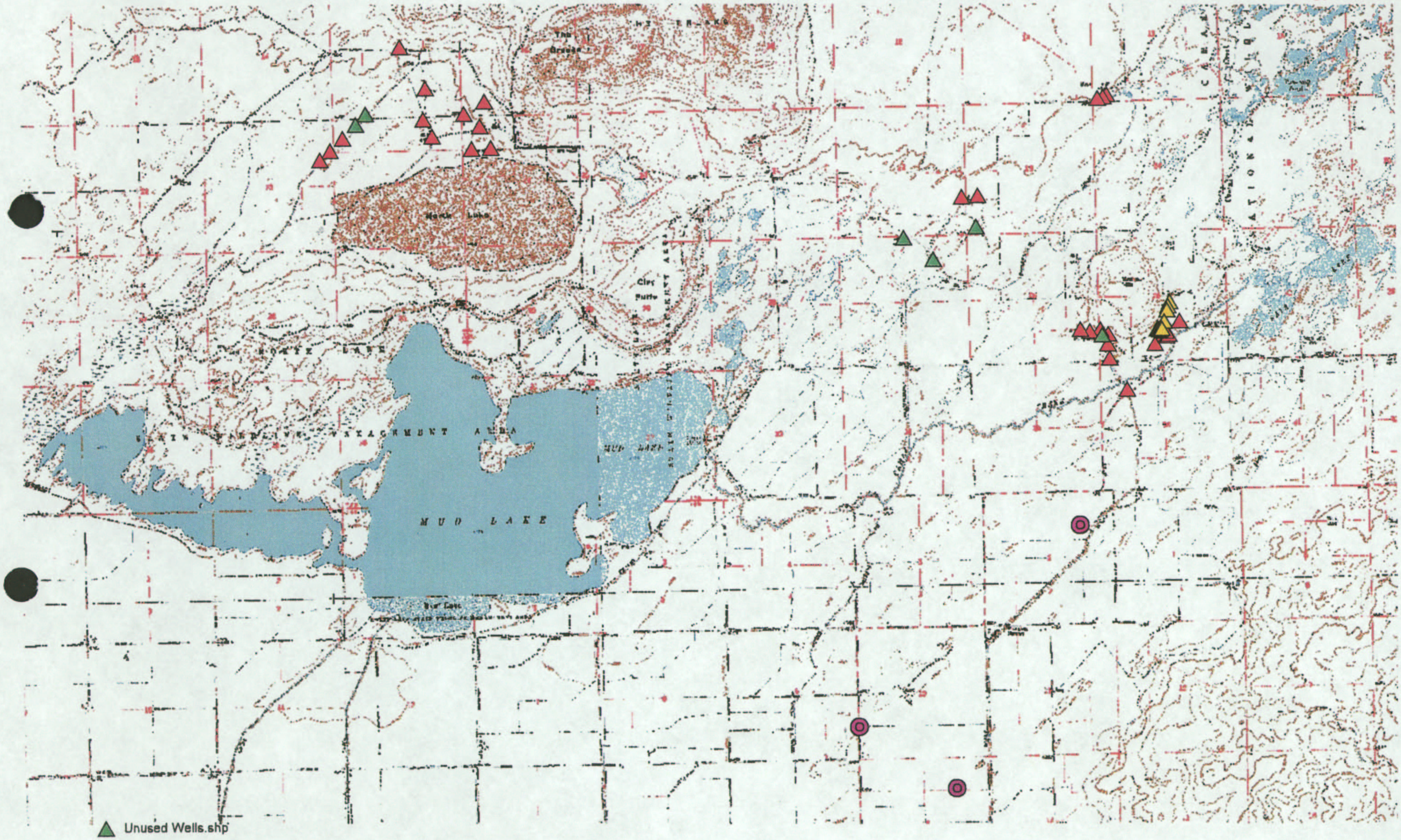
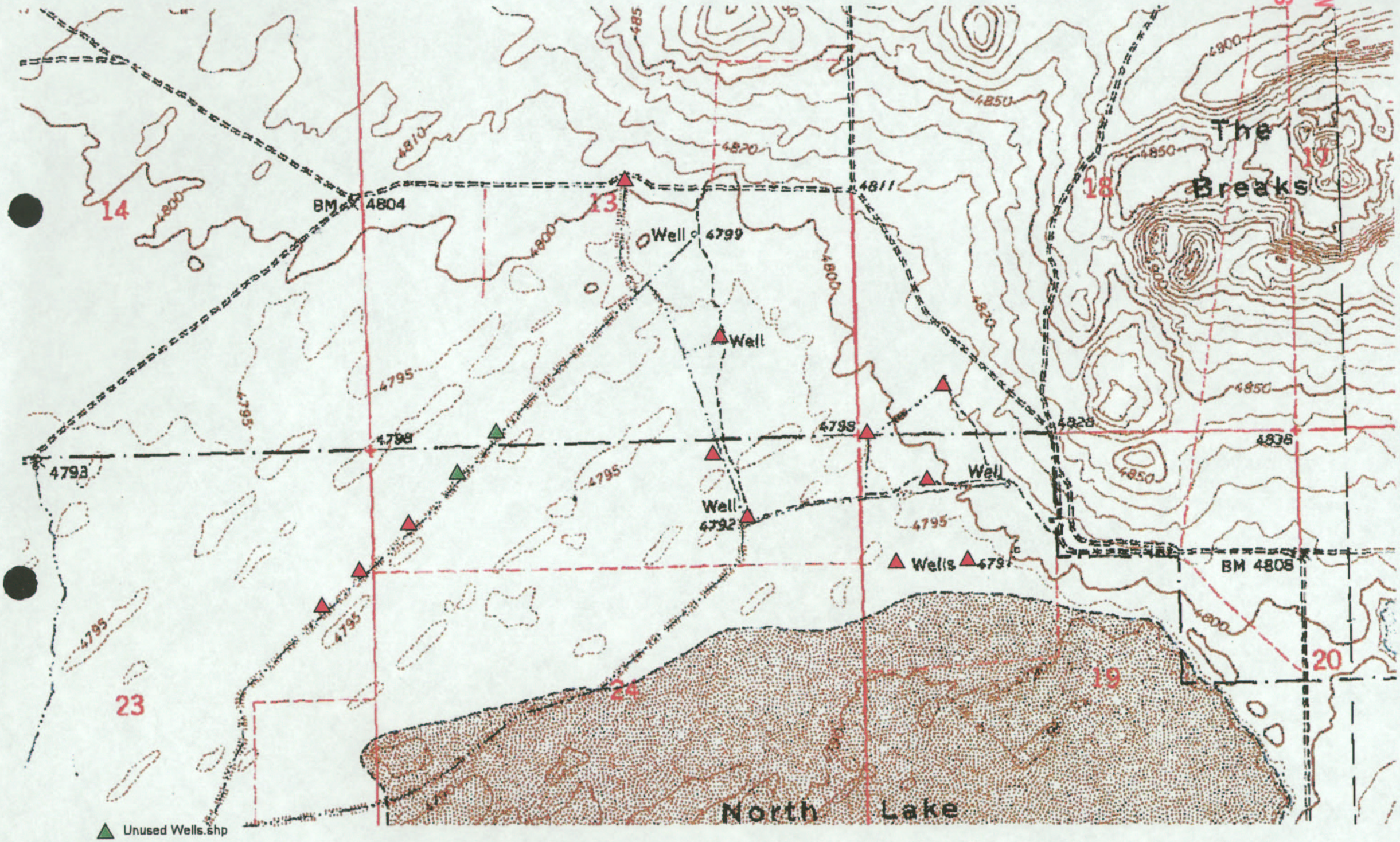
NOV - 8 2002



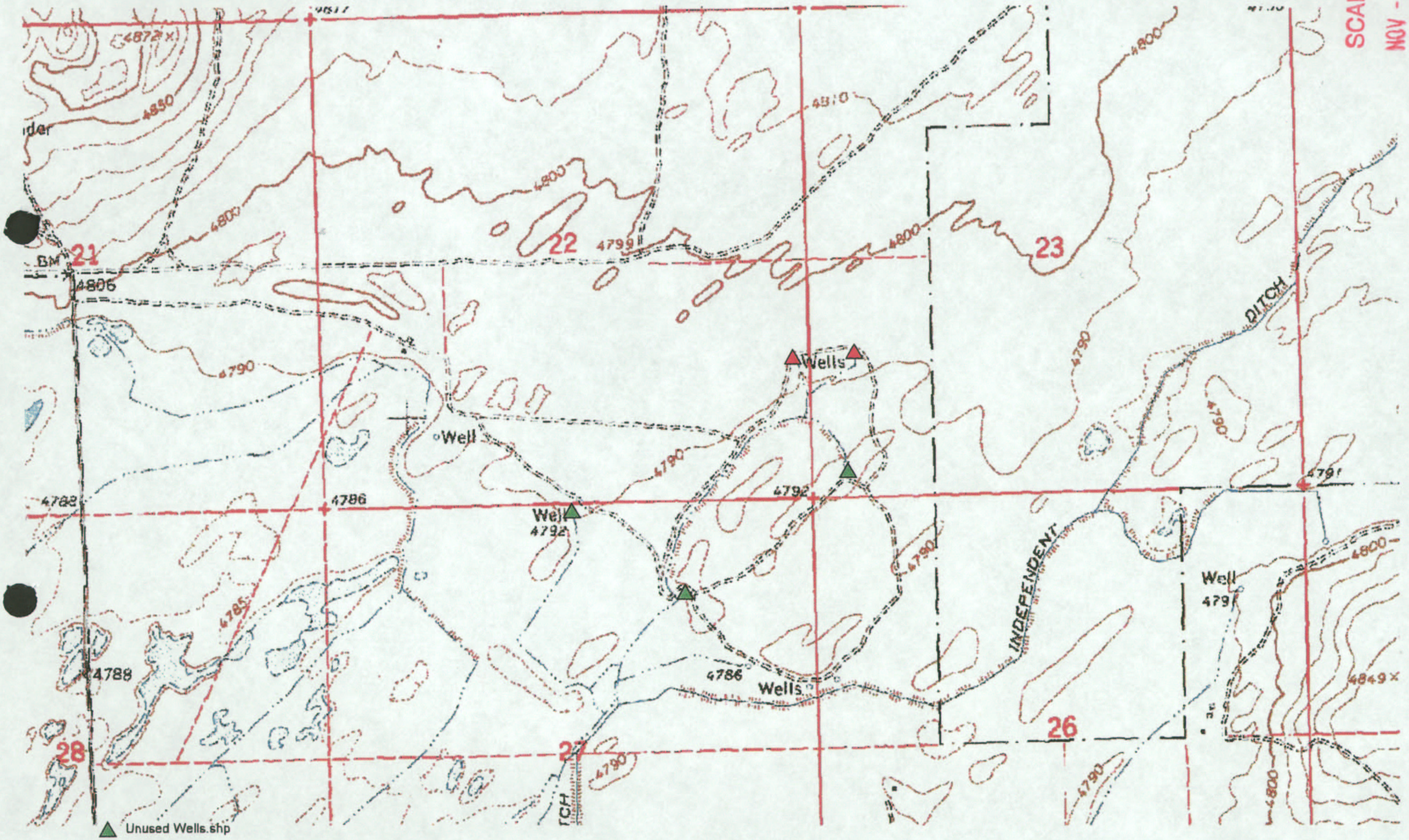
Mud Lake Water Users Wells
October, 2000

SCANNED
NOV - 8 2002



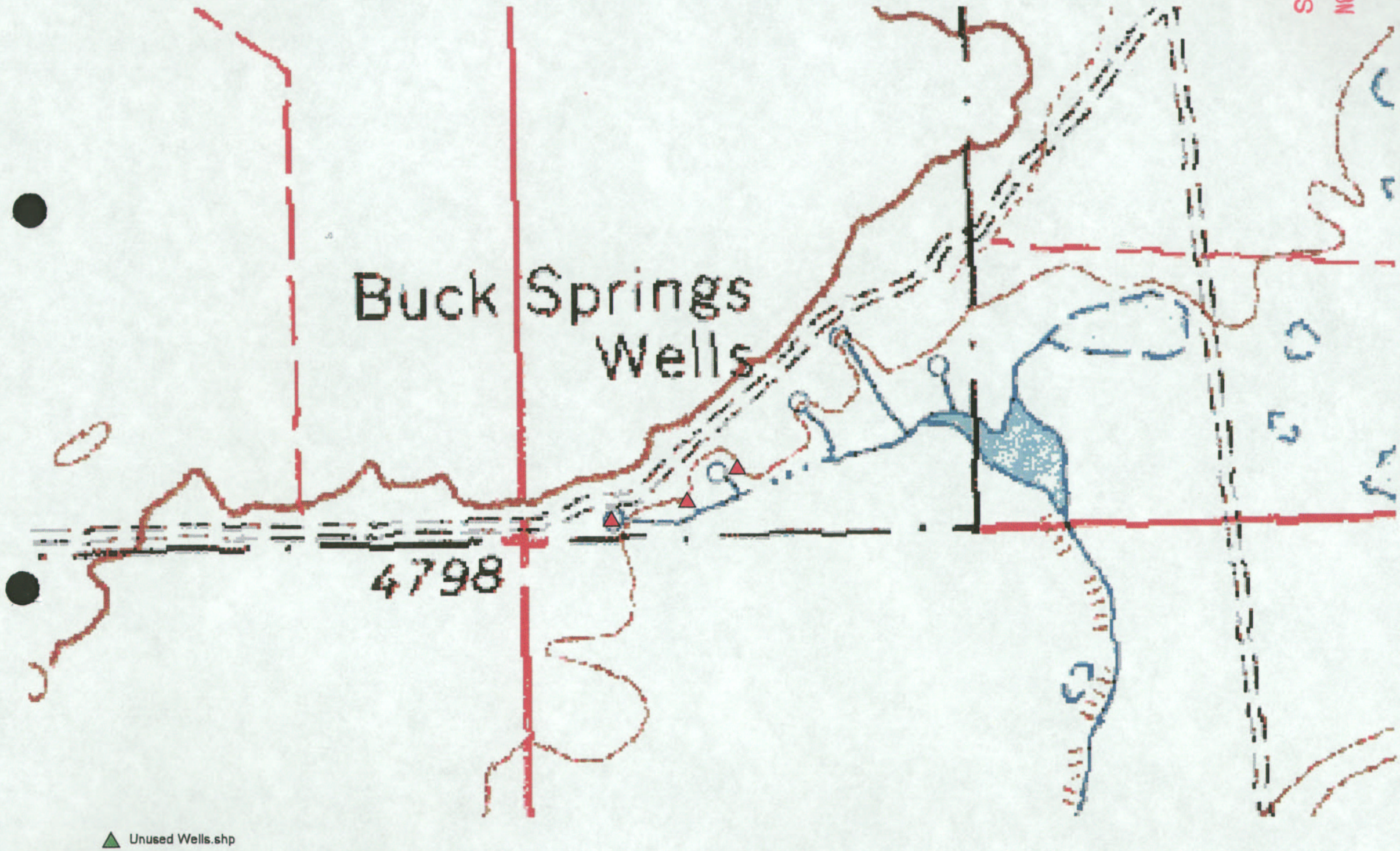
Mud Lake Water Users Wells
October, 2000

SCANNED
NOV - 8 2002



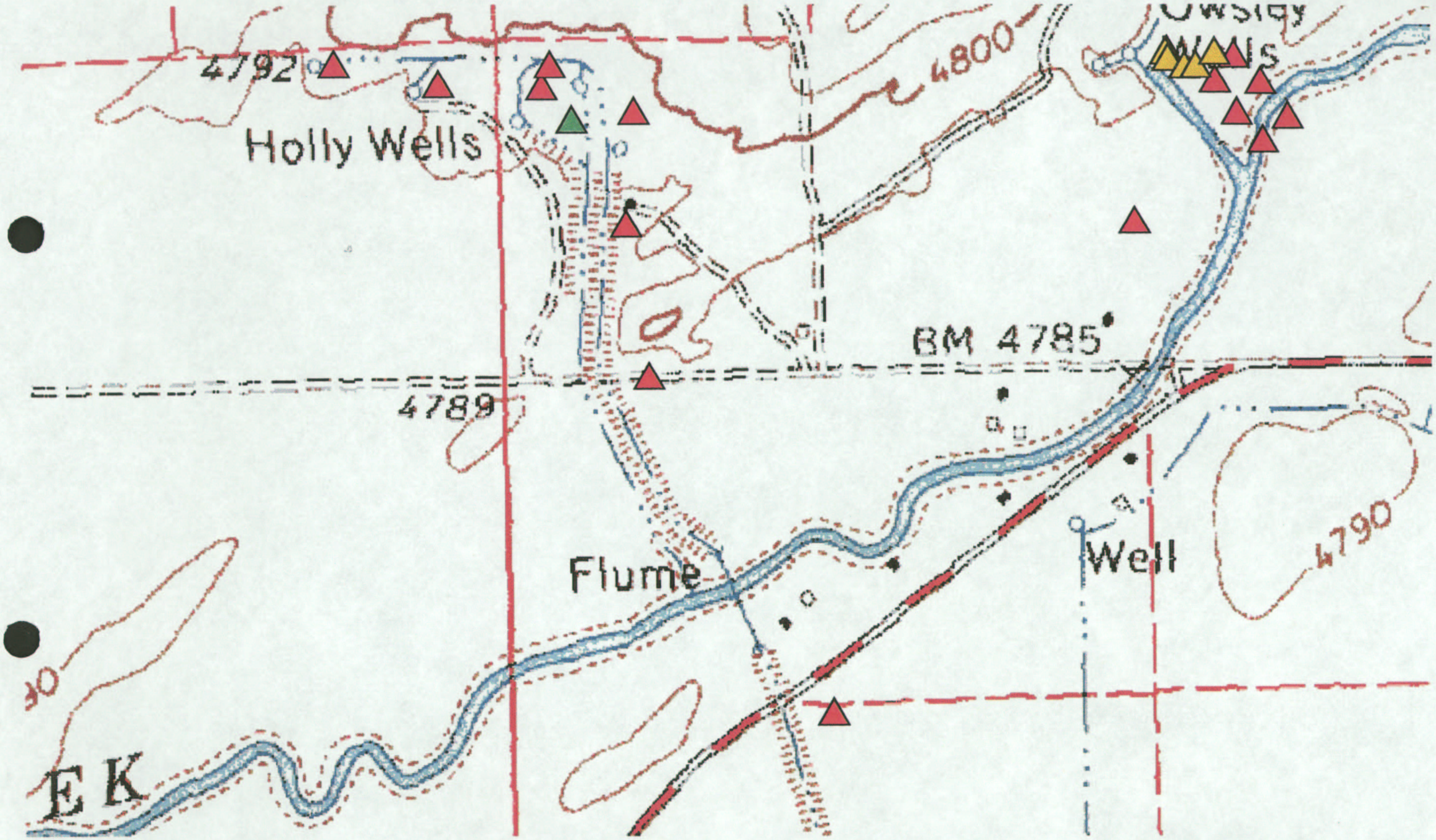
Mud Lake Water Users Wells
October, 2000

SCANNED
NOV - 8 2002



Mud Lake Water Users Wells
October, 2000

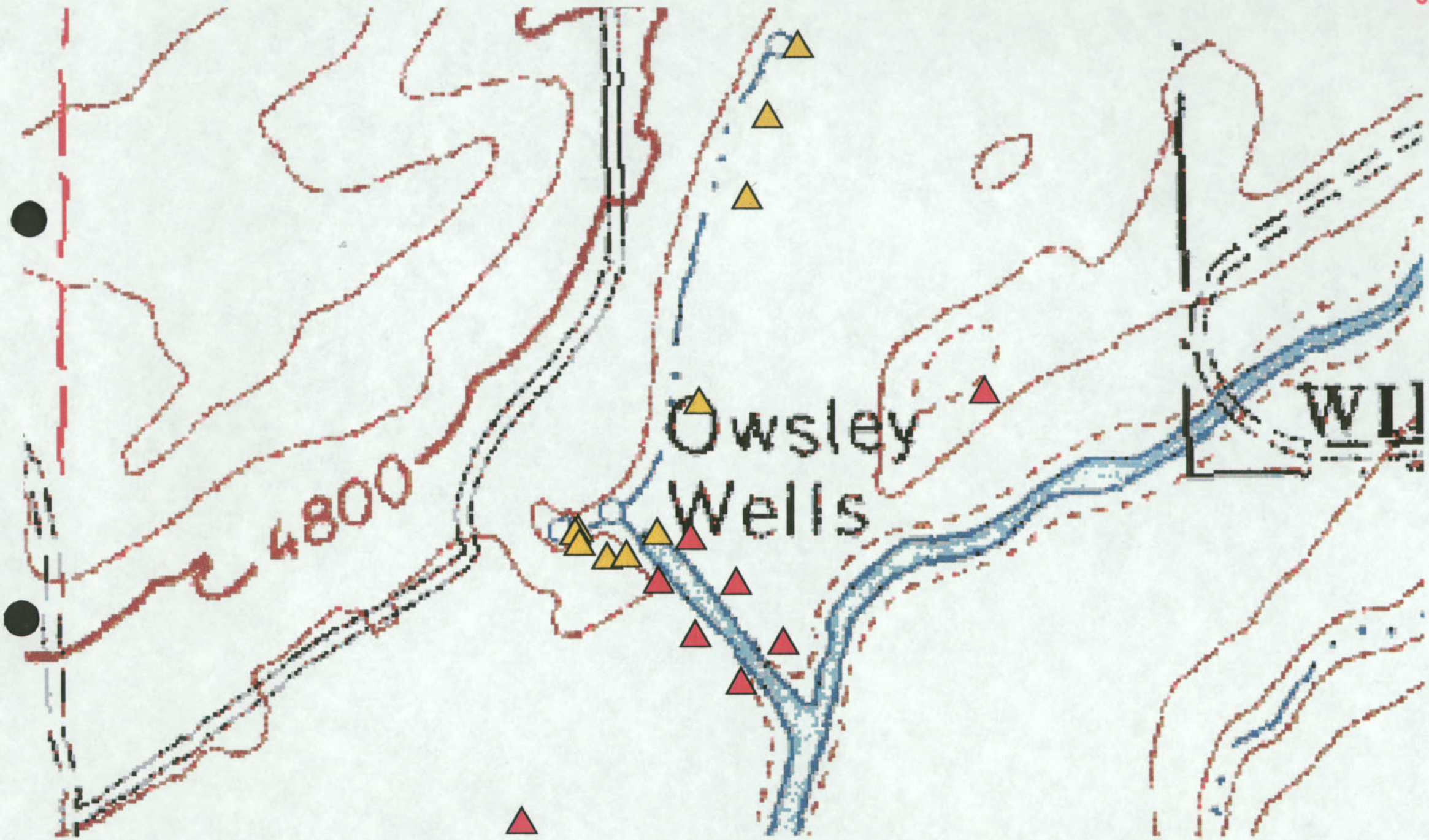
SCANNED
NOV - 8 2002



- Unused Wells.shp
- Sprinkler Wells .shp
- Artesian Wells.shp
- Pumped Wells .shp

Mud Lake Water Users Wells
October, 2000

SCANNED
NOV - 8 2002



- Unused Wells.shp
- Sprinkler Wells .shp
- Artesian Wells.shp
- Pumped Wells .shp

Mud Lake Water Users Wells
October, 2000

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4790

4800

4792

Holly Wells

4800

SCANNED

NOV - 8 2002

4789

4789

BM 47

Flume

790

Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

(photo failed)

Holley pumped wells, looking west from point "24" on map

Holley pumped well #5 (located near label "24" on map).

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NOV 0 8 2002

Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Holley pumped well #7 (Photo #22)

(photo failed)

Holley pumped well #6 (Photo #23)

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Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Bybee Pumped wells looking SSW from point "21" on map.

Bybee pumped wells looking S from location "21" on map.

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Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Bybee artesian well (Photo #20).

Bybee pumped wells, looking SW from location "21" on map.

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Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Bybee artesian well in channel (or possibly just pipe fragment?) (Photo #18).

Bybee artesian well at tip of "hook" of artesian basin (Photo # 19).

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Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Bybee Artesian at north end of artesian basin (Photo #16).

Bybee artesian well (Photo #17).

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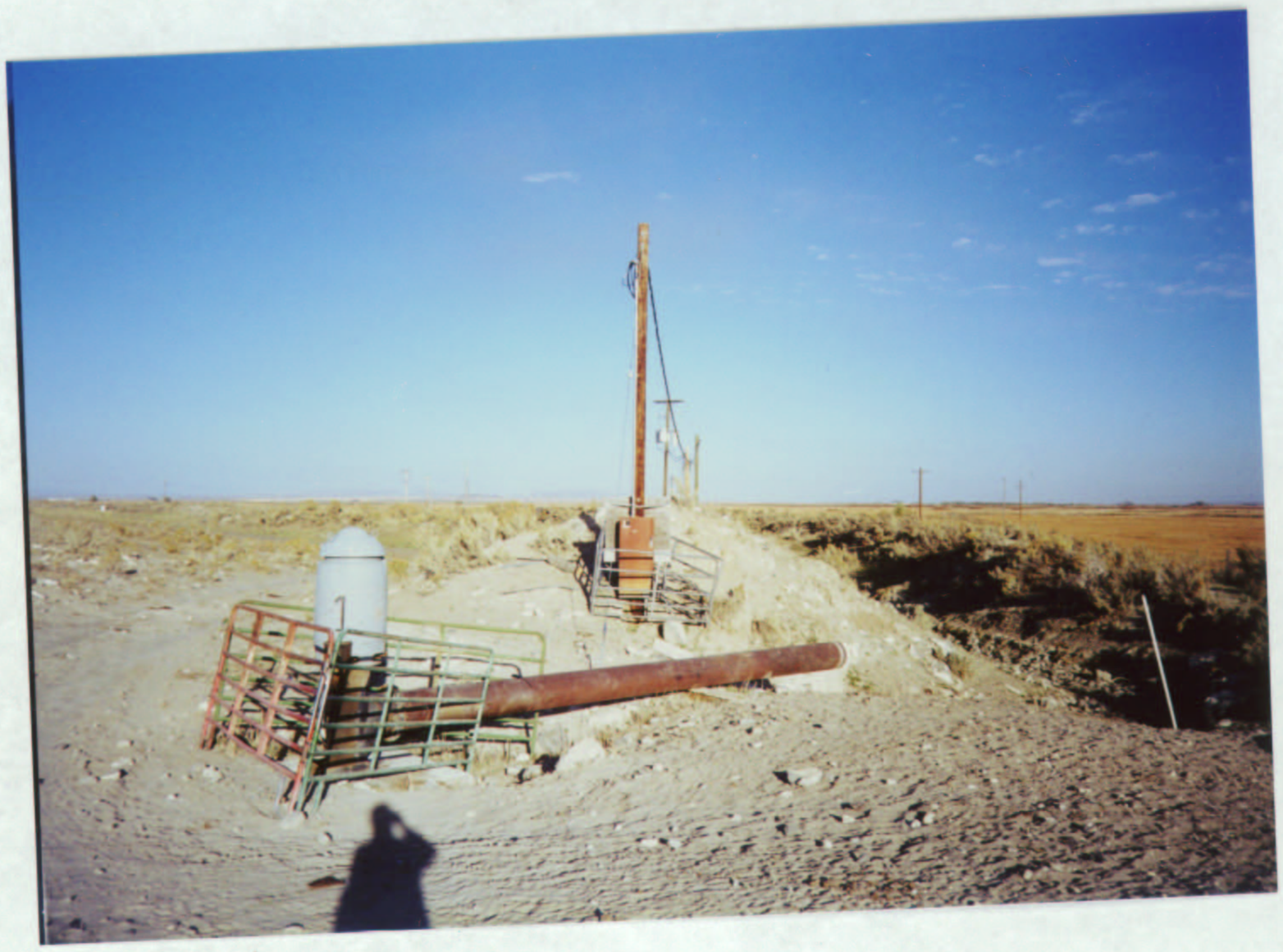
Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Buck Springs Well #2 (Photo #14).



Buck Springs Well #1 (Photo #15).

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Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Check Structure at Buck Springs (photo #8)[1]

Buck Springs "East" Well (photo #13).

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[1] Photos 7, 9-12 are Independent Water Users diversions.

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Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Marty/Jackett #4 (photo #5).

Marty/Jackett #5 (photo #6)

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Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Marty/Jackett Well #2 (Photo #3). Note that panel is marked "#3." "#2" is from map at MLWU headquarters.

Marty/Jacket #3 (Photo #4).

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Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Photo #1, Kirk Egbert Well (#1 on map), looking northeast.

Marty/Jackett #1 (Photo #2 on map). Note that panel is marked "#4." "#1" is from map at MLWU headquarters

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Mud Lake Water Users Wells
October, 2000

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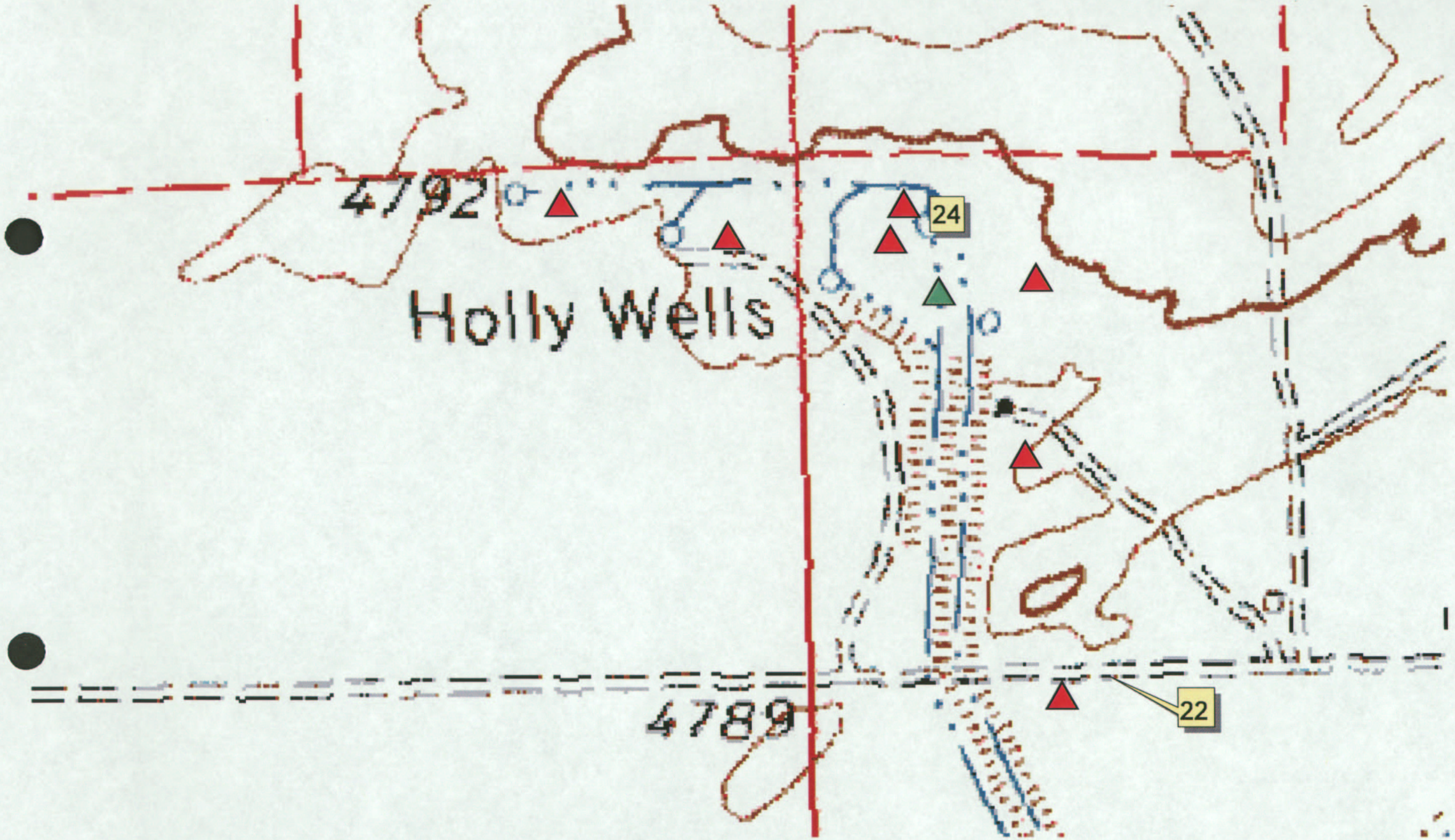

Mud Lake Water Users Wells
October, 2000

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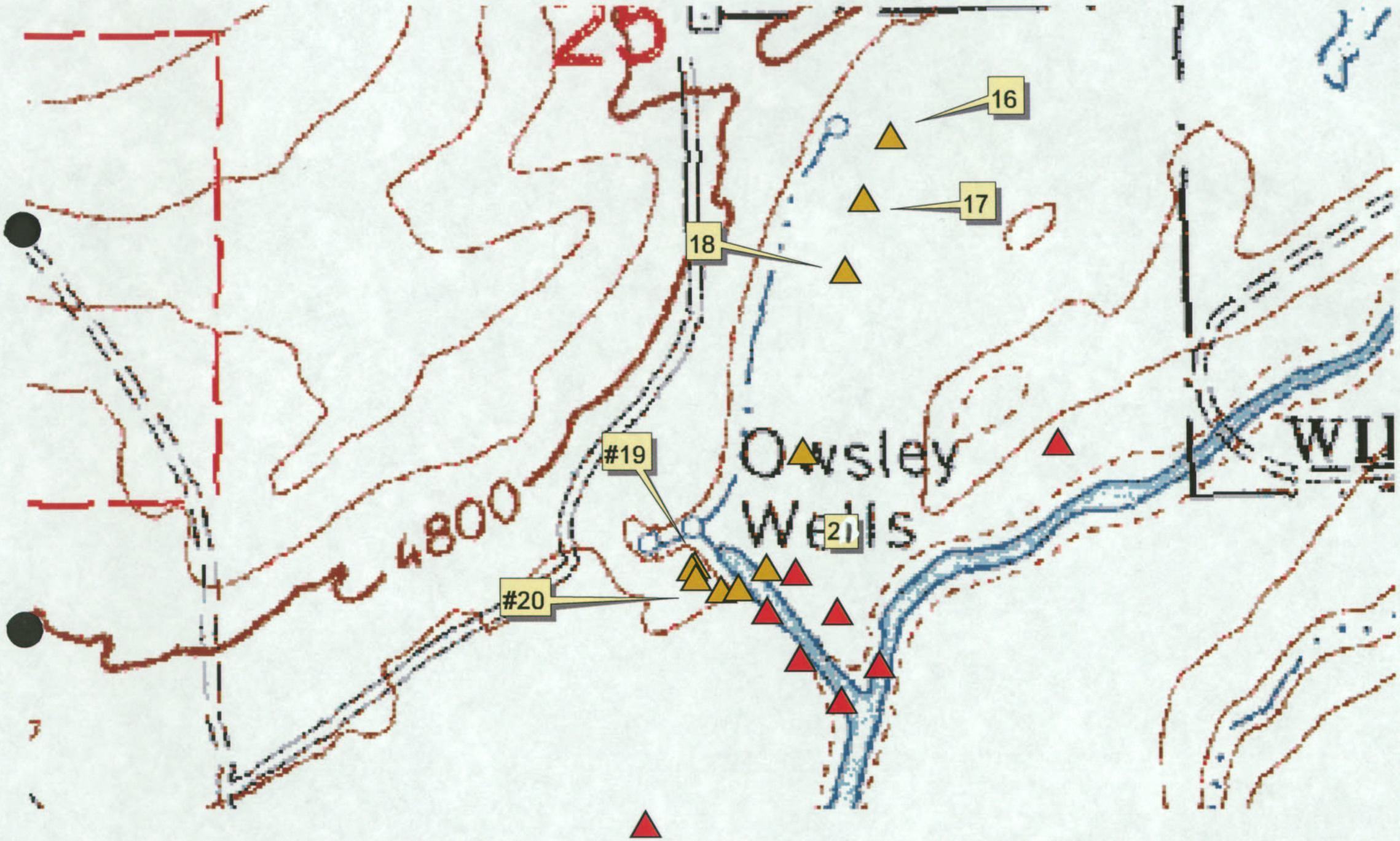
NOV 0 8 2002



- Unused Wells.shp
- Sprinkler Wells .shp
- Artesian Wells.shp
- Pumped Wells .shp

Mud Lake Water Users Wells
October, 2000

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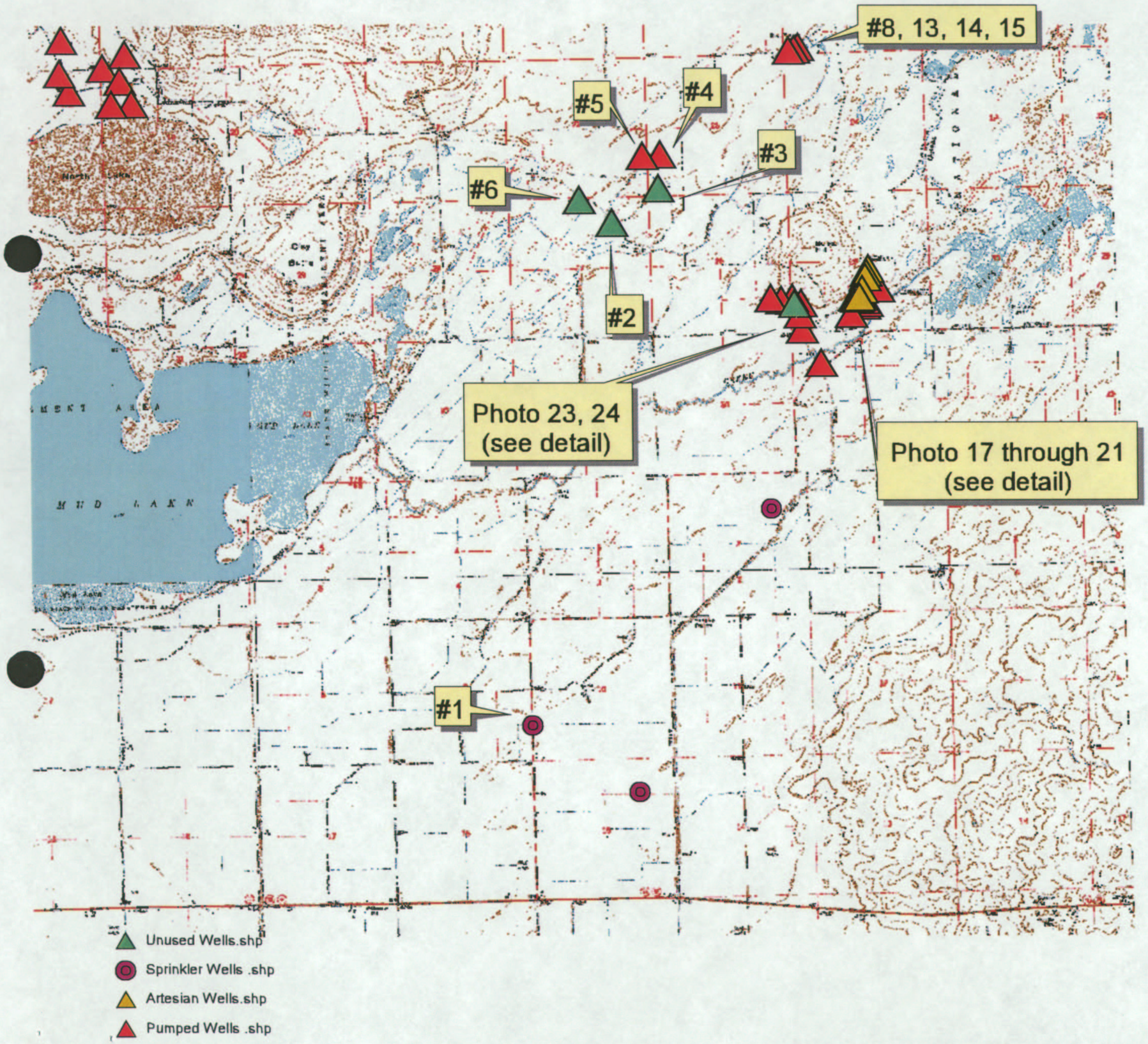
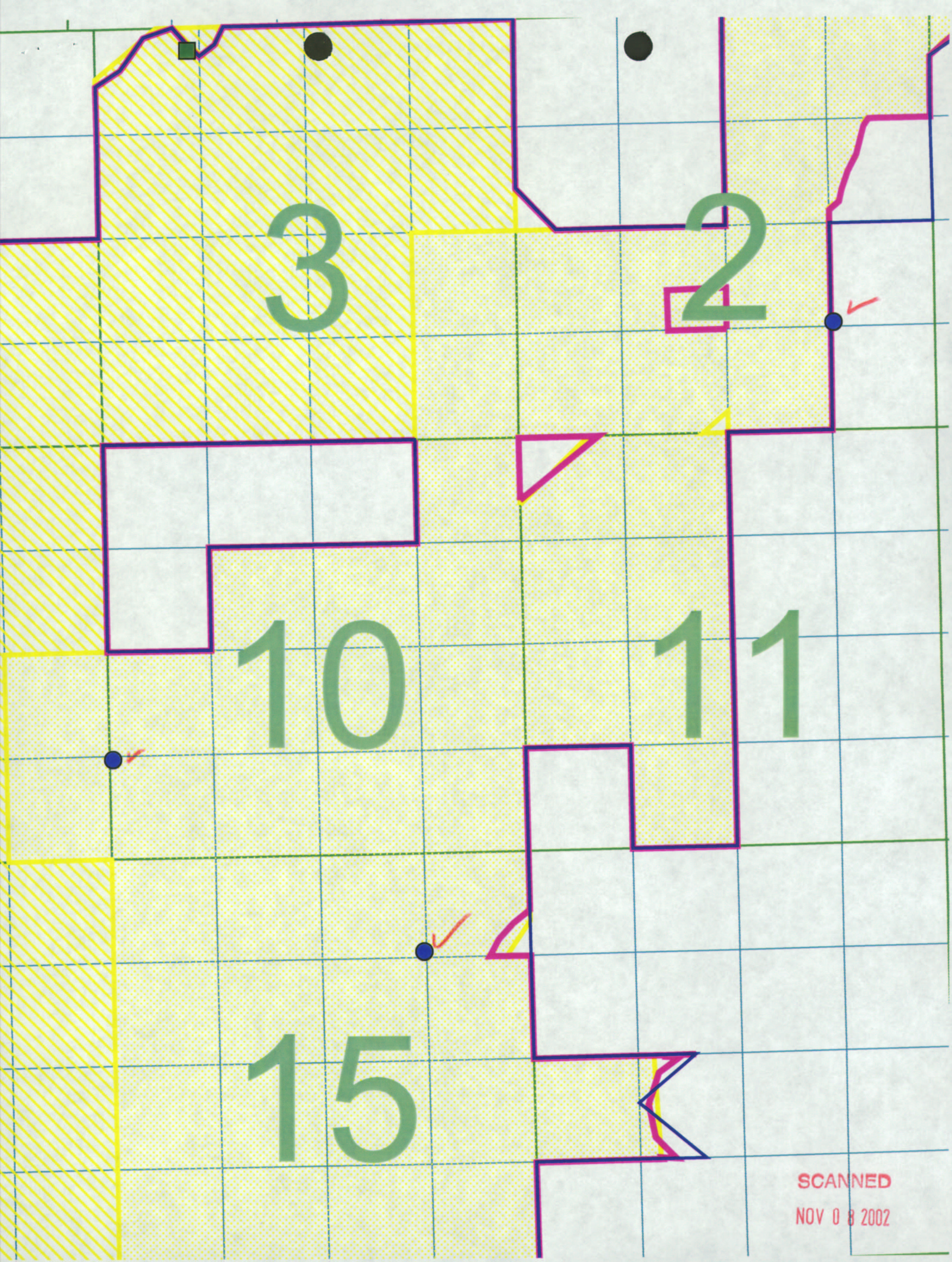
NOV U 8 2002





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9 28 27

33 34

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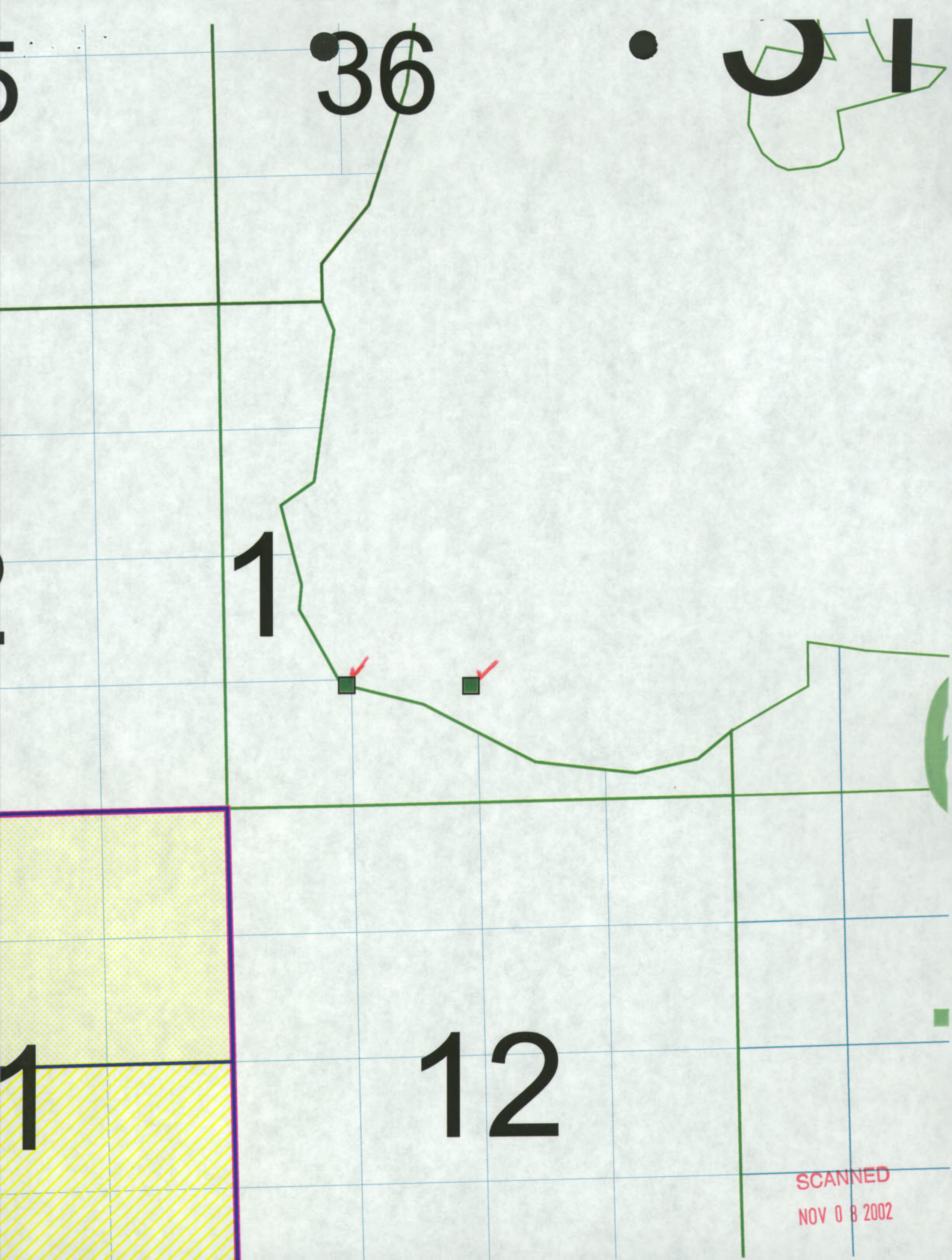
36
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2

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SWSW SESW

NWNW NENW

SWNW SENW

7N34E

7N34E

SW SWNE

7N35E

13

NWSW NESW 18

NE SW SE

SWSESW

SWSW SESW

NENW NE

NWNW NW

NE NW NW

SENENE

SW NW NW

SW NE NE

NWNW
lot 1

NENW

NWSE NW

NE SW NW

lot 2

SWNW SENW

NE SE NE

7N34E

7N35E

7N34E
23

24

NWSW NESW 19

SWSW SESW

SCANNED
NOV 0 8 2002

SWNW

SENW

7N 35E

13

NWSW

NESW

SWSW

SESW

SWSWSW (3)

NWNW

NENW

SCANNED
NOV 0 8 2002

NW NENW NWNE NENE NWNW

SENW SWNE SENE SWNW

7N 35E
23

7N 35E
22

NESW NWSE NESE NWSW

SENESE

SWNWSW

SESW SWSE SESE SWSW

NENW NWNE NENE NWNW

SENW SWNE SENE SWNW

7N 35E
27

NESW NWSE NESE NWSW

SCANNED
NOV 0 8 2002

W

NESE

7N 35E

NWSW

25

7N 35E

26

NWSESE
(1)

NESESE
(1)

NWSWSW
3 active

SE

SESE

SWSW

SWSWSW
2 active

7N 35E

NE

NENE

NESW

NWNW

36

SWNWNW
(1)

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NOV 0 8 2002

7N 35E 25

NW NW SE

3

6 artesian + 1 pumped

NESW

NWSE

SENWSE 1

3 SWNWSE

13 artesian

1

NW SW SE

3

2

4

5

NESESW 14

SESESW 1

SESW

SWSE

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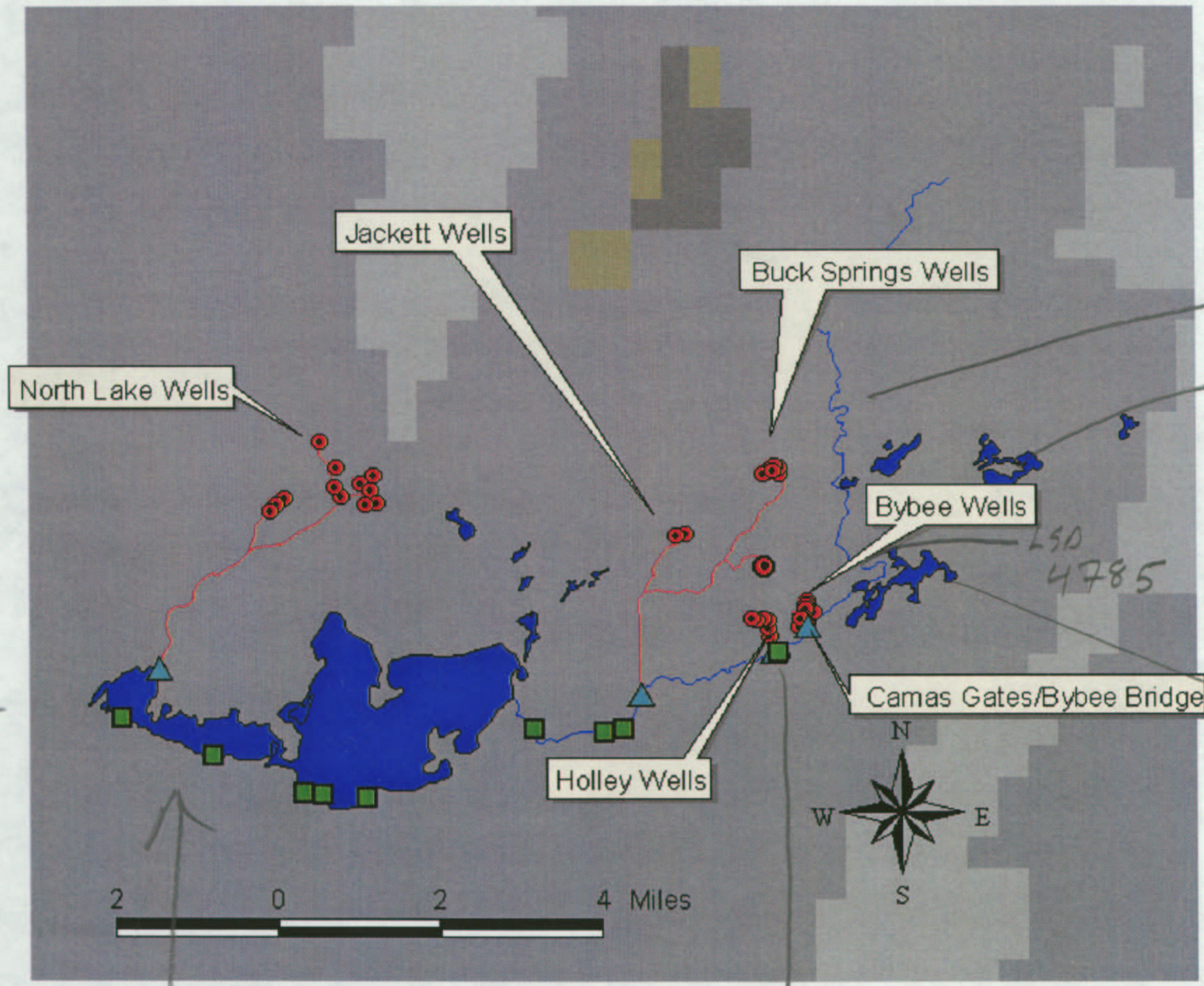
Mud Lake and Camas Creek



LSD 4790

Two-way pond
LSD 4788

LSD 4785

Rays Lake el. 4784

prop 4779

gage datum 4774.99

Max rating 4786

Open. 4783

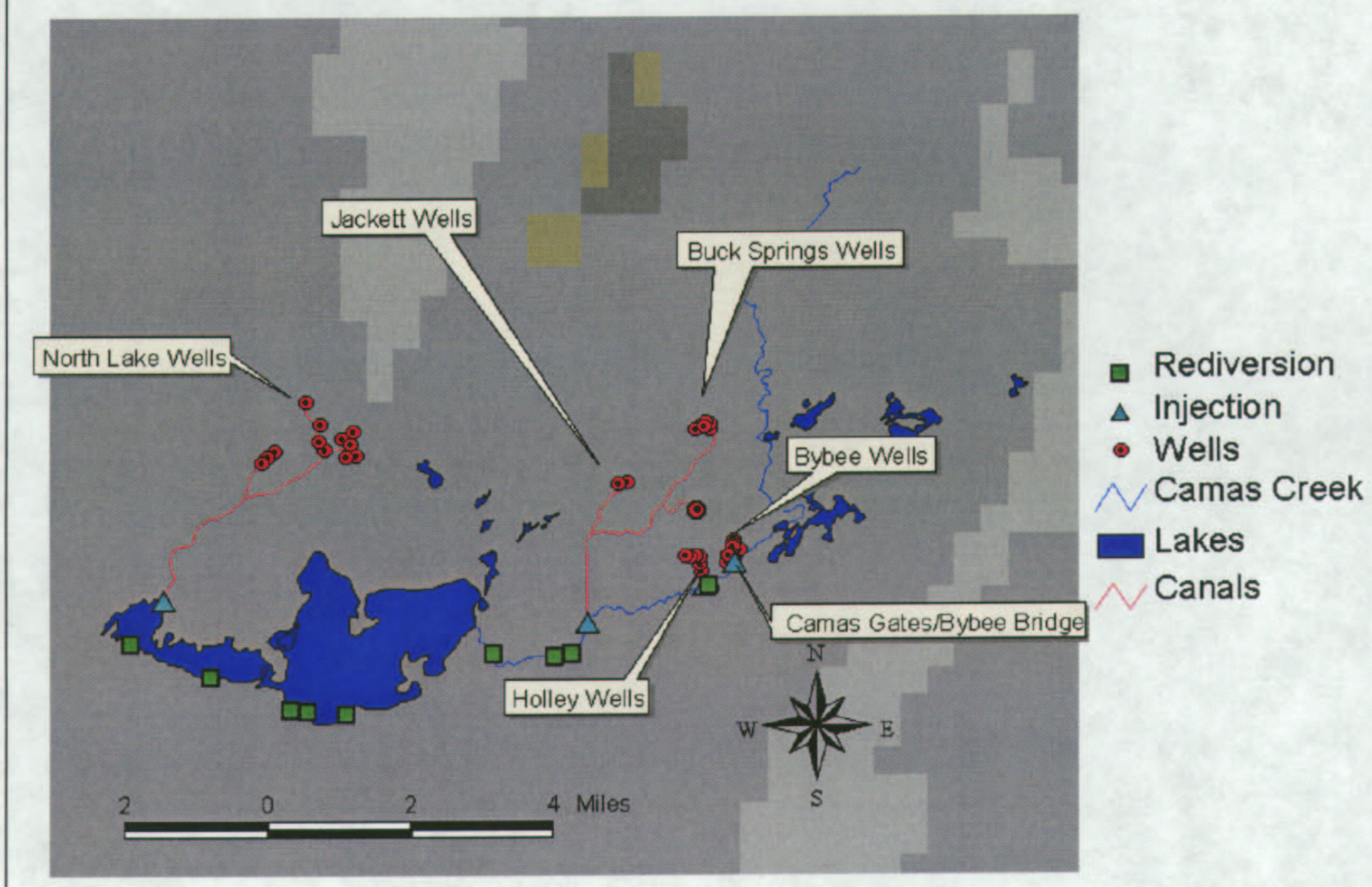
LSD 4785

LSD 4785 - Creek ≈ 12' deep?

Brief Description of Water Distribution from Mud Lake

November 20, 2000
Bryce Contor

I. DESCRIPTION OF PHYSICAL SYSTEM



Water is supplied to Mud Lake from Camas Creek, which flows from the northeast, and a number of wells. The terrain is very flat, and the water level in the lower reaches of Camas Creek is governed by lake water level rather than Camas Creek flows. Water is rediverted from the lake and the Creek at several points. It is lifted by pump into canals for distribution, or pumped directly into pipelines for sprinkler systems.

At the location "Camas Gates/Bybee Bridge" on the map are a number of components of the system. Proceeding upstream, these are:

1. Point of injection for Holley Wells. A gate on the Holley Canal can be opened to allow water from the Holley wells to enter Camas Creek.

2. Flume for Holley canal. This carries Holley Well water across Camas Creek, south to places of use.

3. Holley Camas Creek diversion/rediversion. This pump lifts surface water from Camas Creek, or re-lifts well water that has been injected into Camas Creek from the Bybee Wells, into the

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Surface And Ground Water Rights Delivered Out of Mud Lake

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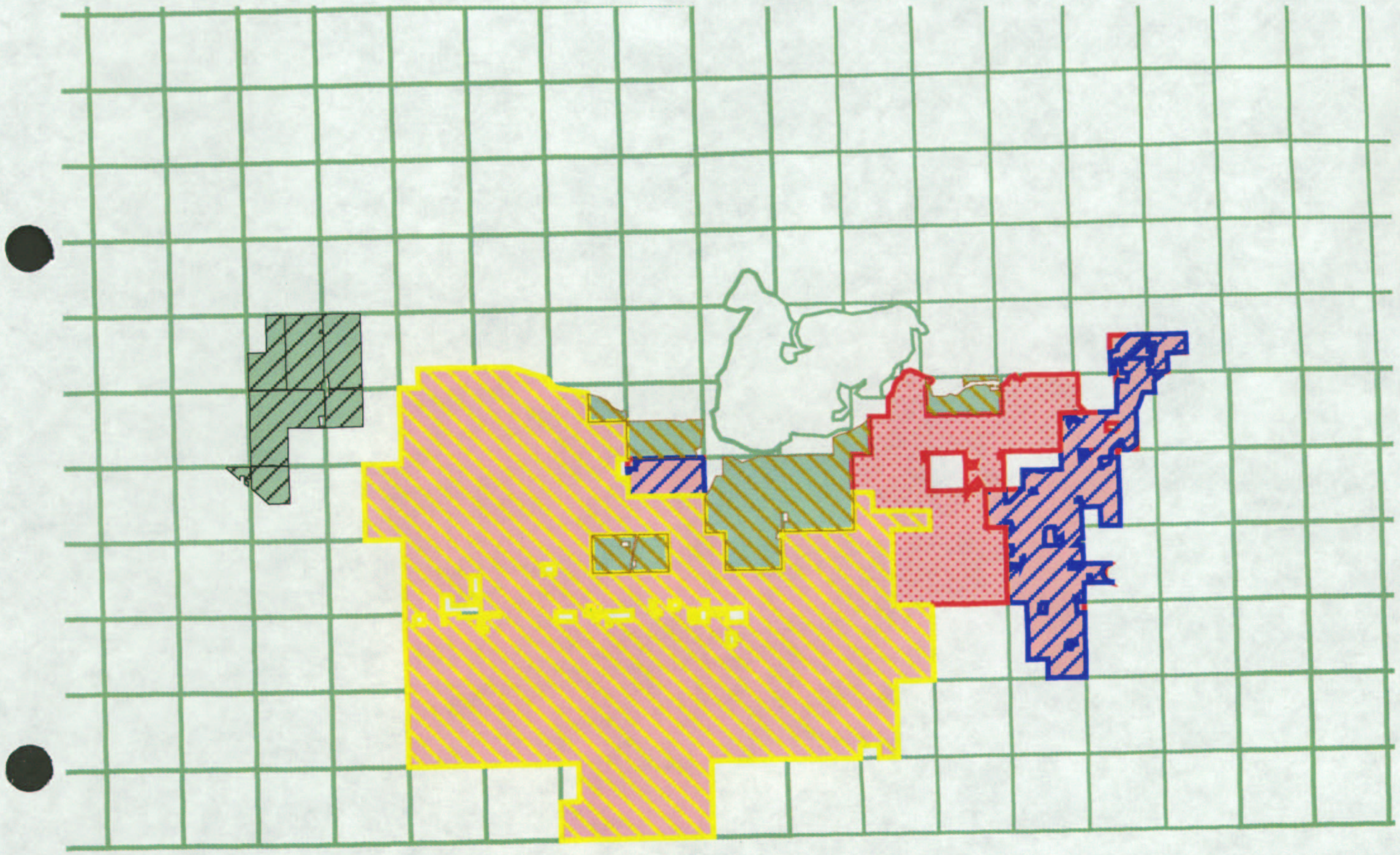


Surface Water

- Private
- Level Canal
- Owsley
- Jackett
- Holley

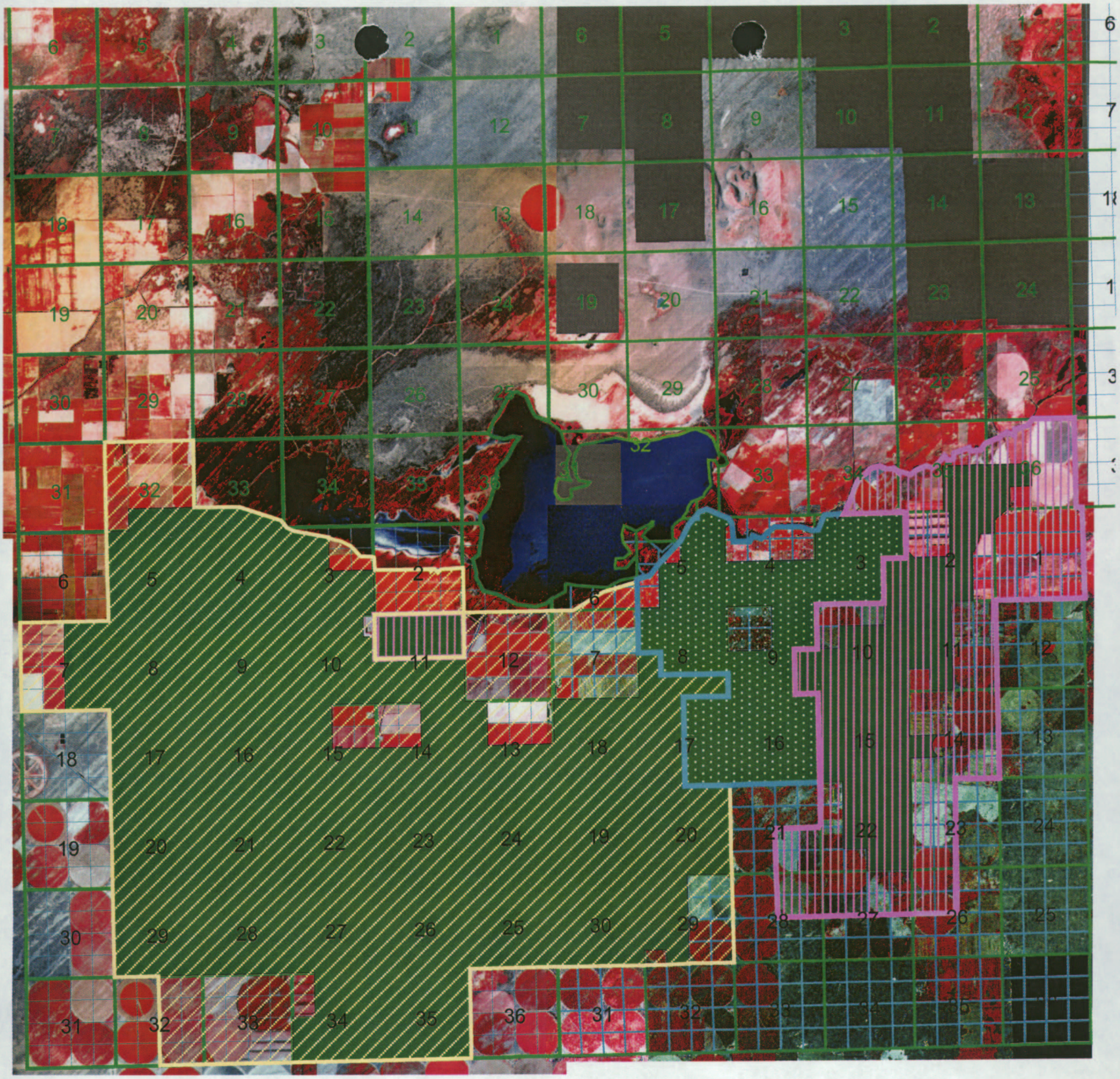
Ground Water

- MLWU
- Independent

2 0 2 Miles

N
W E
S

B. Contor 12/2000



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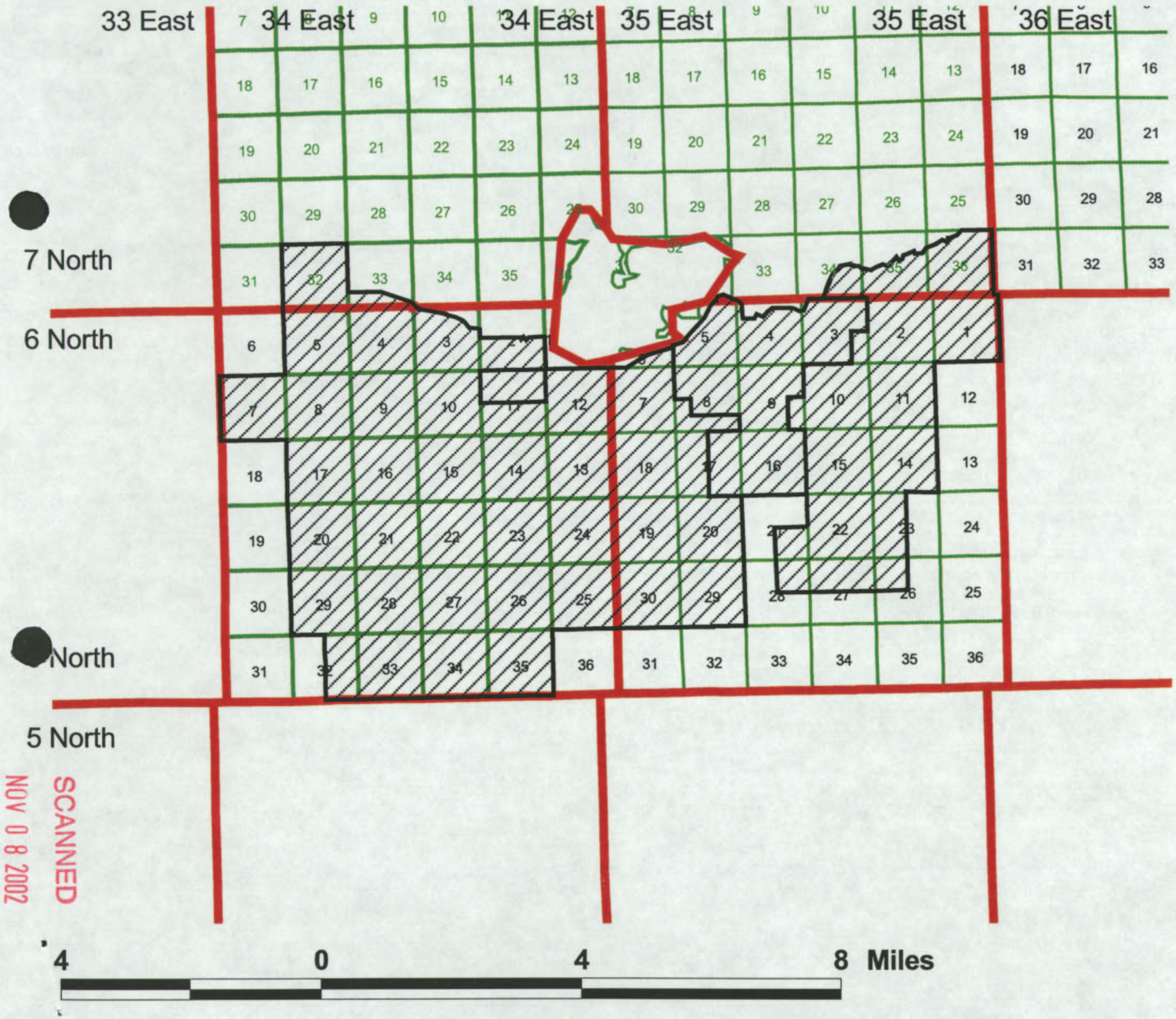
Tentative Mud Lake Water Users Service Area



Theme1.shp
Mlwularge.shp
Tandr.shp
S07n34e.shp
S06n34e.shp
S07n36e.shp
S07n35e.shp

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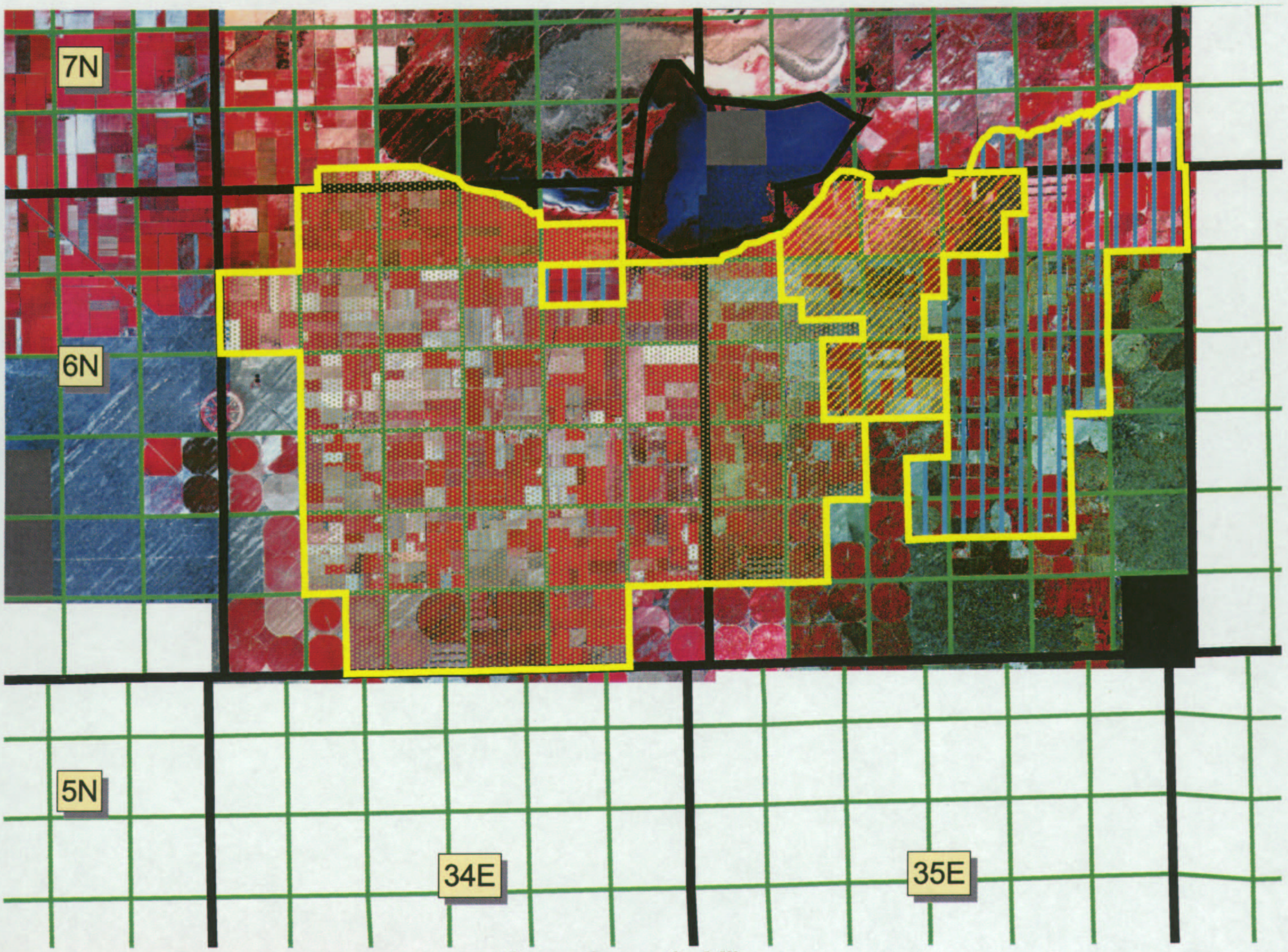
Idaho Department of Water Resources

Mud Lake Water Users
Service Area

Township 6N Range 34E, 6N Range 35E,
7N Range 34E, 7N Range 35E



Holley Division
Jackett Division
Owsley Division
Township
Section

N
W
E
S

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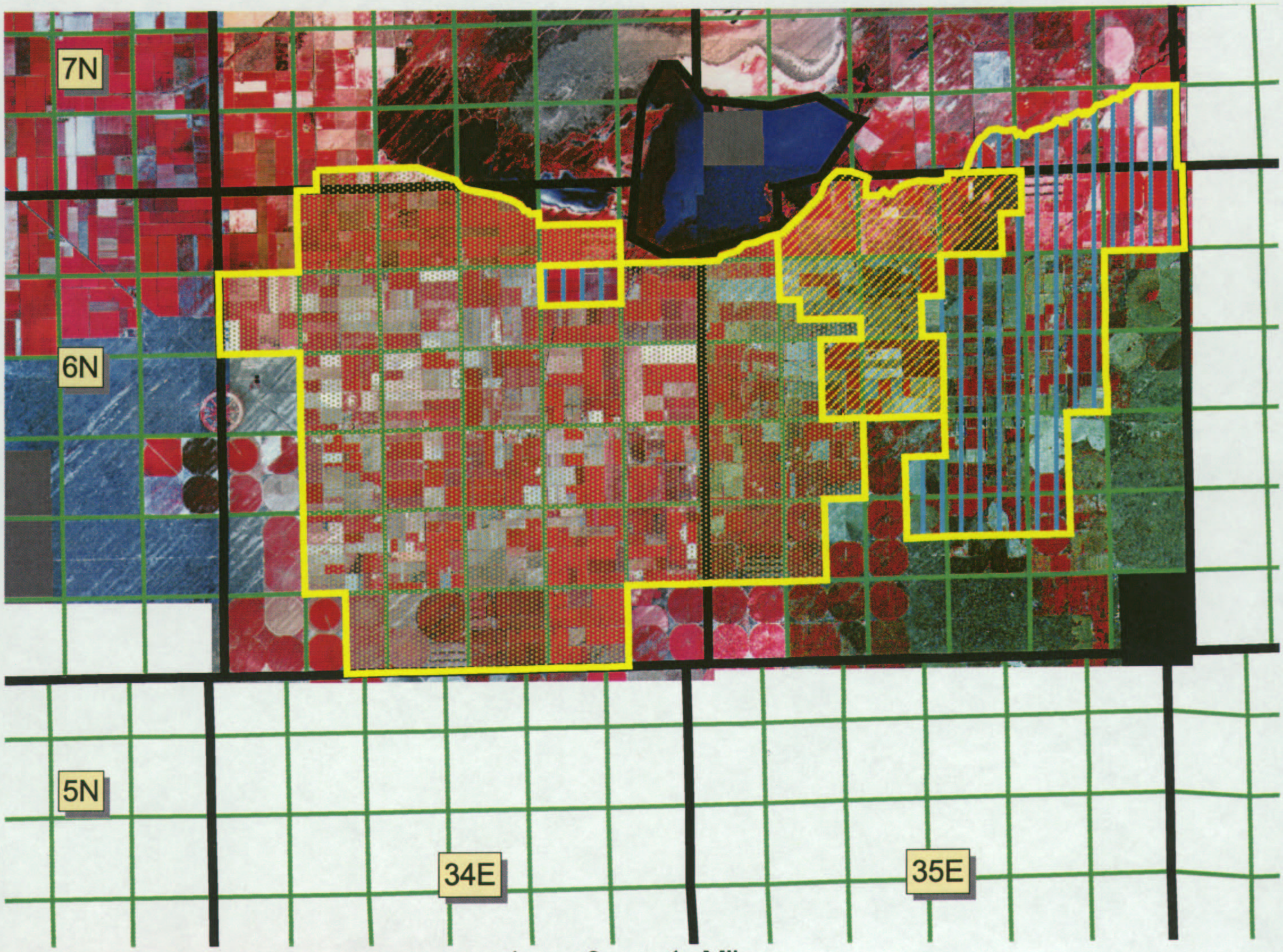
GIS Illustration prepared from 1987/1988 NAPP photography by B. Contor 7/2001

Idaho Department of Water Resources

Mud Lake Water Users
Service Area

Township 6N Range 34E, 6N Range 35E,
7N Range 34E, 7N Range 35E



Holley Division
Jackett Division
Owsley Division
Township
Section

N
W
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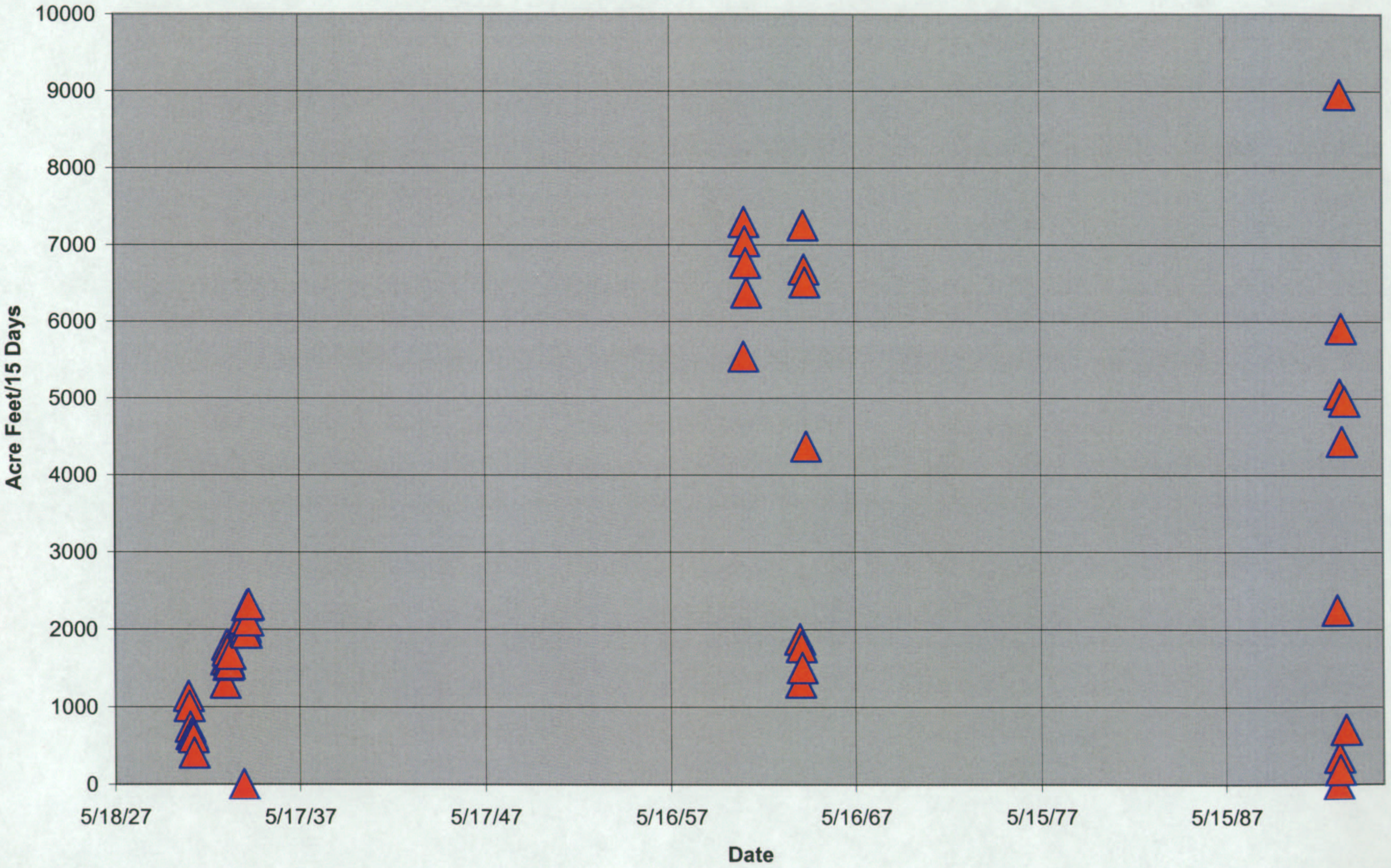
GIS Illustration prepared from 1987/1988 NAPP photography by B. Contor 7/2001

Well Pumpage Into Mud Lake



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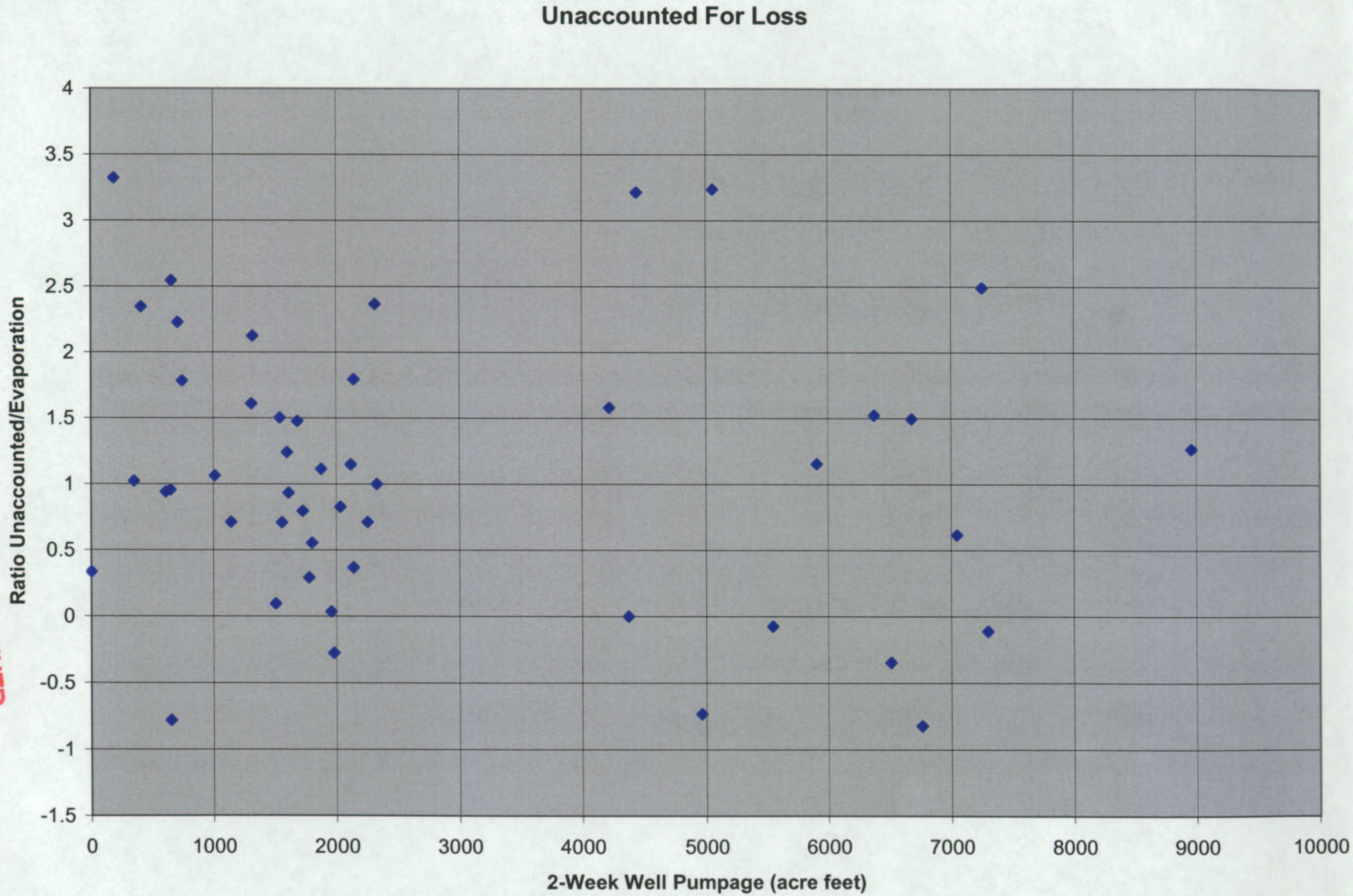

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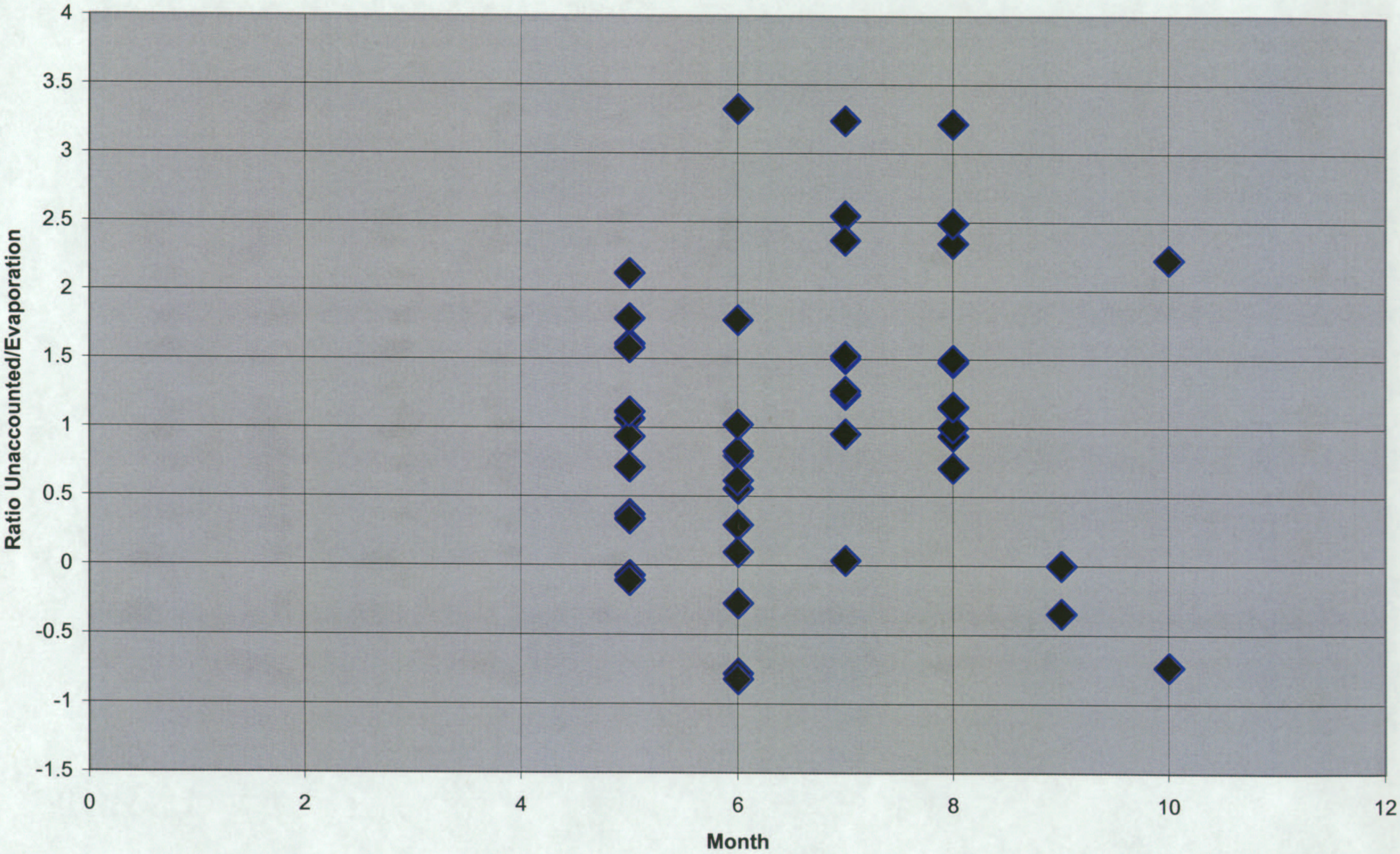
Unaccounted Losses by Month



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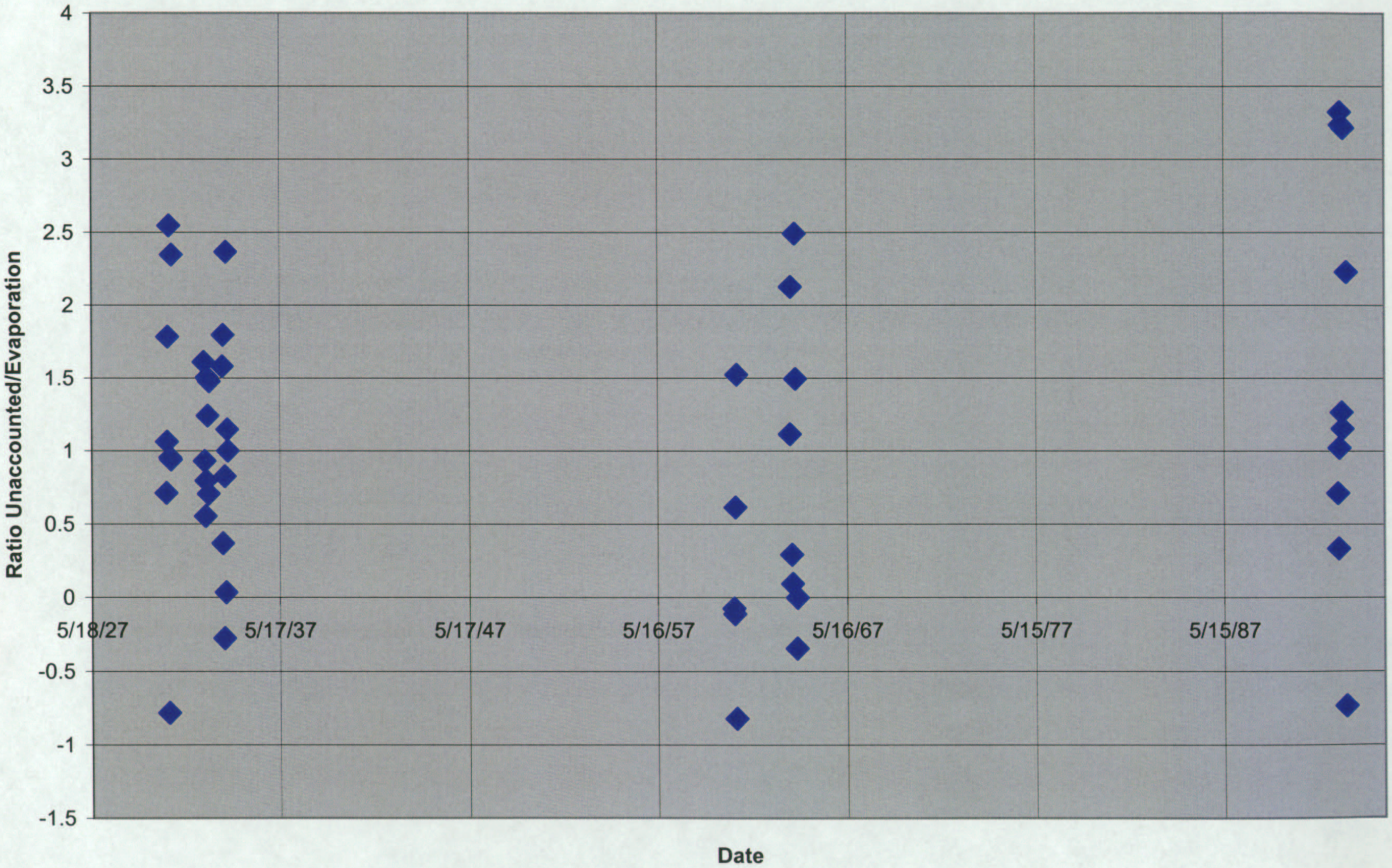
Unacounted For Loss in Mud Lake



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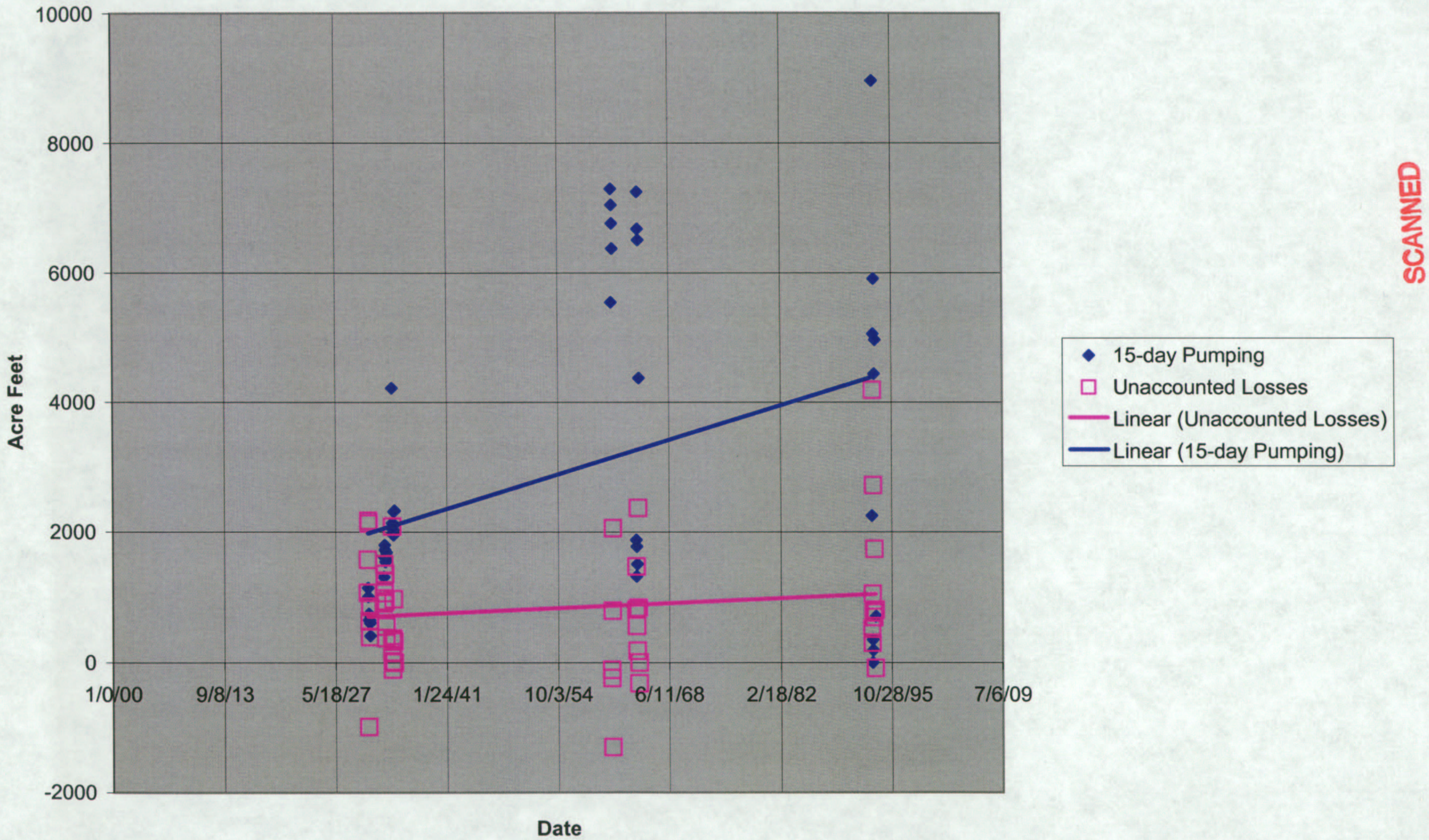
NOV 25 2002

Losses and Pumping By Period



water rights.

k. At each fifteen-day recalculation interval, all evaporation and other losses shall be proportioned according to the volume of water recorded in each respective Individual Allotment Balance or Individual Well Balance and charged against these balances.

l. Positive Balances shall not be carried forward past November 1.

m. Negative Balances shall be carried forward to the subsequent irrigation seasons Allotment Sheet and charged against the Individual Allotment Balance on May 1. If Negative Balances are in excess of the calculated Individual Allotment, the excess amount shall be charged against the Individual Well Balance on May 1. (I still worry that this provision is implicit approval to exceed the water right -- which is the only way, other than calculation errors, to have a negative balance)

n. The Watermaster may determine that the water user(s) may not withdraw more than 35% of the Individual Allotment in any calendar month if necessary to prevent injury to other water users. All water, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's Individual Allotment.

CLAIMANT MUD LAKE WATER USERS, INC.

_____

Gerald Messerli, President Date signed

CLAIMANT DOBSON RANCH PARTNERSHIP

_____

Andy Dobson, Partner (Cannot be president of a partnership?) Date Signed

CLAIMANT LEVEL CANAL CO., INC.

_____

Wilfried Smith, President Date signed

CLAIMANT JALENE OR KEITH SHULDBERG, HUSBAND AND WIFE

_____

Keith Shuldberg Date signed

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Agreement

b. This ~~General Provision~~ shall apply to all water rights diverted or rediverted out of Mud Lake as defined for administrative purposes.

c. The Watermaster shall maintain the Allotment Sheet to show the ownership of Individual Allotment water and Well Balance water. Well Balances shall be recorded beginning with the date of the first pumping of wells or May 1, whichever is earlier. Allotment Balances shall be computed beginning May 1. The Allotment Sheet shall be maintained through November 1.

d. Ground water flowing without pumping into Mud Lake, prior to May 1 and after ~~October 31~~ Nov 1, shall be accounted as natural inflow to Mud Lake and shall not be carried in any Well Balance or Individual Well Balance. Owners of wells ~~capable of flowing~~ without pumping into Mud Lake shall allow such wells to flow, and shall allow such water to accumulate in Mud Lake, prior to May 1 and after ~~October 31~~ Nov 1.

subject to control of watermaster

e. All well water, whether naturally flowing or pumped, ~~diverted~~ delivered to the lake through from May 1 ~~to~~ November 1, shall be credited to the Individual Well Balance of the water user owning the well(s) and water right(s) under which the water is diverted.

f. Early Season Pumped Ground Water shall be credited to the Individual Well Balance(s) of the water user(s) owning the well(s) and water right(s) under which the water is diverted. These water rights are 31-332, 31-11339, 31-11429, 31-11430, and 31-11432.

g. On May 1 of each year, the Watermaster shall compute the Provisional Allotment and allocate it to the Individual Allotments of water rights defined in (b.) above, and record the Individual Allotments on the Allotment Balance section of the Allotment Sheet. Every fifteen days thereafter the Watermaster shall adjust the Individual Allotment Balances according to daily records of evaporation and other losses, and daily records of diversions. At the same time the Watermaster shall also adjust the Well Balance and Individual Well Balances according to daily records of evaporation and other losses, daily measured inflows, and daily records of diversions.

h. The Watermaster shall maintain daily records of natural inflows to Mud Lake from Camas Creek. At each fifteen-day recalculation interval, the Watermaster may if necessary adjust the Provisional Allotment and recalculate the Individual Allotments to correspond to actual natural inflows and revised anticipated natural inflows.

i. At such time as Camas Creek ceases to contribute water to Mud Lake, and no further contributions are anticipated in the current irrigation season, the Watermaster shall compute a Final Allotment and recalculate Individual Allotments.

j. At such time that all Individual Allotments cannot be completely filled, the Allotment and Individual Allotments shall be recalculated to prevent injury to holders of senior surface

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NOV 25 2002

records evaporation and other losses, inflows, outflows, and mass-balance calculations.

Early Season Pumped Ground Water: Ground water diverted to storage in Mud Lake prior to May 1, under water right numbers: 31-332, 31-11339, 31-11429, 33-11430, 31-11432. It is accounted for in the Well Balance section of the Allotment Sheet.

Provisional Allotment: The Divertable Volume of Mud Lake on May 1, less Early Season Pumped Ground Water contributions, plus Water Delivered Prior to May 1, plus the anticipated natural inflows to Mud Lake for the current irrigation season. The Provisional Allotment is the volume of water anticipated to be deliverable to holders of surface water rights diverted from Mud Lake.

Final Allotment: The Divertable Volume of Mud Lake on May 1, less Early Season Pumped Ground Water contributions, plus Water Delivered Prior to May 1, plus the actual natural inflows to Mud Lake from May 1 to the date of the calculation of the Final Allotment. The Final Allotment is calculated when natural inflows to Mud Lake from Camas Creek have ceased and no further natural inflows are anticipated from Camas Creek. The Final Allotment is the actual volume of water deliverable to holders of surface water rights diverted from Mud Lake

Individual Allotment: The portion of the Provisional or Final Allotment allocated to an individual water user, according to the priority date and the sum of the volume of his/her surface water rights diverted out of Mud Lake.

Individual Allotment Balance: The Individual Allotment less the volume of withdrawals (including withdrawals made prior to May 1) and the cumulative total of the proportionate share of losses charged against the allotment.

Well Balance: The volume of stored water in Mud Lake that has been injected from ground water, from May 1 to November 1, or that has been injected from Early Season Pumped Ground Water.

Individual Well Balance: The portion of the Well Balance allocated to an individual water user, according to the injections made from that user's well(s), under that user's ground water right(s).

Positive Balance: An Individual Allotment Balance or Individual Well Balance with a value greater than zero.

Negative Balance: An Individual Allotment Balance or Individual Well Balance with a value less than zero.

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DRAFT 3

AGREEMENT REGARDING MUD LAKE WATER ADMINISTRATION AND DELIVERY

WATER RIGHT NOS. : 31-332, 31-11339, 31-11429, 33-11430, 31-11432 **[Insert Ground Water Right Numbers too?]**

Mud Lake Water Users Inc., Dobson Ranch Partnership, Level Canal Co. Inc., Jalene and Keith Shuldberg, husband and wife, Van and Joan Burtenshaw, husband and wife, Don and Beverly Burtenshaw, husband and wife and Independent Water Users, Inc. hereinafter referred to as "Claimants" hereby enter into this Agreement as of this _____day of _____, 2001.

Introduction

The Claimants voluntarily enter into this Agreement regarding the administration of water from Mud Lake. The Claimants consist of all of the water users who own ground water rights that are pumped into and delivered from Mud Lake and who own surface water rights that are stored and delivered from Mud Lake. The Claimants enter into this Agreement in order to preserve and clarify the historical delivery practice of water from Mud Lake which they have all relied upon. ~~Furthermore, the Claimants want to insure that such delivery practices continue in the future.~~

Terms of Agreement

The Claimants agree and stipulate to the delivery and management of Mud Lake water as described below.

1. Allotment System

a. Definitions. For purposes of this Agreement:

Mud Lake: For purposes of administration, Mud lake is defined as Mud Lake or its tributaries at points affected by the backwaters of Mud Lake. Historically the term "Mud Lake" has been Mud Lake and Camas Creek downstream of T7N R35E Section 25, SWSWSE.

Divertable Volume: Water in Mud Lake above the elevation of 4773.99 feet, National Geodetic Vertical Datum of 1929.

Allotment Sheet: An accounting system maintained by the Watermaster consisting of the following: the (1) "Allotment" section which records volumes deliverable to holders of surface water rights; the (2) "Well Balance" section which records volumes deliverable to holders of ground water rights; and the (3) "Inflow/Outflow Accounting" section, which

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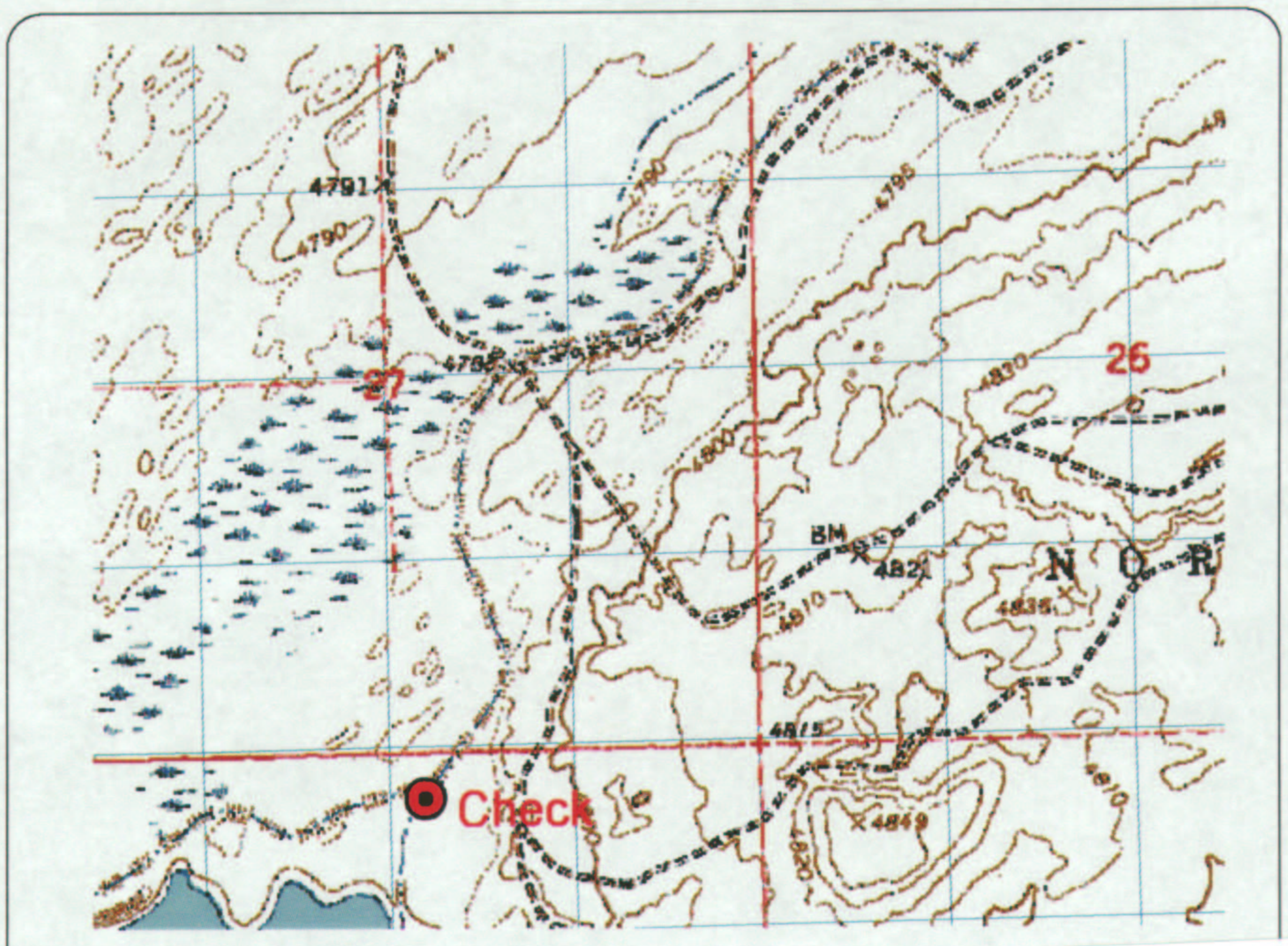
AJ Field Inspection Photograph 7/5/2000

North Lake Channel Check Structure 7N 34E 34 NWNE



AJ Field Inspection Photos 7/5/00 B. Contor

North Lake Channel Check Structure.

Mud Lake Water Users GW and Surface Claims.

This check structure, if opened, allows North Lake Well water to continue southward to enter the lake. If closed, water moves SW in the channel to the channel from the lake to the Sparks Lift. See narrative at "Culvert," 7N 34E 33 SE.

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IDAHO DEPARTMENT OF WATER RESOURCES
Adjudication Recommended Right Report

WATER RIGHT NO. 31-6

Owner Type	Name and Address
Current Owner	MUD LAKE WATER USERS INC 1400 E 1500 N PO BOX 68 TERRETON, ID 83450 (208)663-4359

Priority Date: 12/10/1917
Basis: Decreed
Status: Valid

Source	Tributary to
MUD LAKE	SINKS

Beneficial Use	From	To	Diversion Rate	Volume	Subuse Code
IRRIGATION STORAGE	01/01	12/31		344.4 AFA	
IRRIGATION FROM STORAGE	04/01	10/31		344.4 AFA	
Total Diversion				344.4 AFA	

Location of Point(s) of Diversion:

MUD LAKE	NESESW	Sec. 01	Township 06N	Range 34E	JEFFERSON County
MUD LAKE	NESESE	Sec. 01	Township 06N	Range 34E	JEFFERSON County
MUD LAKE	NESWNW	Sec. 02	Township 06N	Range 34E	JEFFERSON County
MUD LAKE	NWSWSW	Sec. 34	Township 07N	Range 34E	JEFFERSON County

IRRIGATION FROM STORAGE Use:
Acre Limit: 80

Place(s) of use: No POUs found for this right

Conditions of Approval:

1. C18 THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE ENTRY OF A FINAL UNIFIED DECREE. SECTION 42-1412(6), IDAHO CODE.
2. C05 RIGHT INCLUDES ACCOMPLISHED CHANGE IN PLACE OF USE PURSUANT TO SECTION 42-1425, IDAHO CODE.
3. C03 RIGHT INCLUDES ACCOMPLISHED CHANGE IN POINT OF DIVERSION PURSUANT TO SECTION 42-1425, IDAHO CODE.

Remarks:

1. Quantity — FOR THIS RIGHT, THE DIVERSION VOLUME DESCRIBED ABOVE WAS CALCULATED BY MULTIPLYING A DIVERSION RATE OF 1.4 CFS BY A FACTOR OF 2 ACRE FEET PER DAY FOR 123 DAYS (MAY 1ST TO SEPTEMBER 1ST).
2. Place of Use - Irrigation — THIS RIGHT IS LIMITED TO THE IRRIGATION OF 80 ACRES WITHIN THE PLACE OF USE DESCRIBED ABOVE IN A SINGLE IRRIGATION SEASON.
3. Place of Use - Irrigation — PLACE OF USE WITHIN THE BOUNDARY OF THE OWSLEY DIVISION OF MUD LAKE WATER USERS, INC. TOTAL IRRIGATED ACRES 17818.
4. Place of Use - Irrigation — USE OF THE RIGHTS LISTED BELOW IS LIMITED TO THE IRRIGATION OF A COMBINED TOTAL OF

24261.3 ACRES IN A SINGLE IRRIGATION SEASON. COMBINED RIGHT NOS.: 31-327, 31-328, 31-329, 31-330, 31-331, 31-332, 31-336B, 31-337B, 31-371, 31-2239, 31-2265, 31-2289, 31-2290, 31-2297, 31-2310, 31-2317A, 31-2317B, 31-2321, 31-2341, 31-2342, 31-2343, 31-2344, 31-2345, 31-7005, 31-11430, 31-11432, (GROUNDWATER), 31-2276, (WASTEWATER), 31-6, 31-34, 31-35, 31-36, 31-37, 31-38, 31-52, 31-65, 31-104, 31-105, 31-147A, 31-159, 31-162, 31-163, 31-166, 31-168, 31-169, 31-184, 31-185, 31-186, 31-187, 31-188, 31-232, 31-237, 31-263, 31-363, (OWLSEY DIVISION SURFACE WATER), 31-134, 31-135, 31-143, 31-144, 13-190, 31-192, (JACKETT DIVISION SURFACE WATER), 31-344, 31-345, 31-354, 31-355, 31-360, 31-361, 31-10957, 31-10958, 31-10959, 31-10960, 31-10961, 31-10962 (HOLLEY DIVISION SURFACE WATER).

Comments:

Author	Date	Subject	Comment
bcontor	1/3/01	Recommendation	Per decree as modified by accomplished transfers
bcontor	1/3/01	Acres	This right given proportionate share (by cfs) of original 160 acres decreed to this right and 31-5 in combination. See paper file.
bcontor	1/6/01	POU overlap	From preliminary investigation it appears some Suave-decreed rights were decreed to overlapping POU without being recorded on one page (as were 31-5 and 31-6). As overall combined use acreage limitation prevents injury, not every
bcontor	1/6/01	POU overlap cont.	possible overlap combination was investigated. Where rights were listed on the same page with a common POU a combined limit was coded (except 31-34 through 31-38, where original POU was larger than current claimed).
bcontor	1/6/01	Change in Source	Some of the MLWU surface rights are originally decreed w/ source Camas Creek. To accurately reflect historical practice of delivering all SW rights downstream of Bybee Bridge as storage rights, these rights are changed to source Mud Lake
bcontor	1/6/01	Change continued	As Camas Creek proper does not have adequate storage. See special paper files "Mud Lake Wter Users" and "Mud Lake Storage."
bcontor	1/6/01	MLWU Rights	Review of all original Owlsey surface WR of MLWU is summarized in this paper file and eCVR and in eCVR and paper file 31-34, as well as special paper files "Mud Lake Storage" and "Mud Lake Water Users."

Dates:

Licensed Date:
Claim Received Date: 12/06/1988
Enlargement Use Priority Date:
Enlargement Statute Priority Date:
Decreed Date: 11/01/1930
Date Filed with Court:
Objection Filed Date:
SF5 Filed:
Special Master Recom Signed Date:

Element Reviewed/Verified Dates:

Element	Last Review Date	Reviewer	Last Verified Date	Verifier	Status
POD	1/3/01 11:29:25 AM	bcontor			In Process
POU	1/3/01 11:40:09 AM	bcontor			In Process
Priority Date	1/3/01 11:28:13 AM	bcontor			In Process
Quantity	1/3/01 11:49:47 AM	bcontor			In Process
	1/3/01 11:43:57 AM	bcontor			In Process
Season	1/3/01 11:49:13 AM	bcontor			In Process
	1/3/01 11:43:55 AM	bcontor			In Process
Source	1/3/01 11:30:08 AM	bcontor			In Process
Summary	1/3/01 11:53:42 AM		1/3/01 11:53:42 AM	bcontor	Complete
Use	1/3/01 11:46:44 AM	bcontor			In Process
	1/3/01 11:43:53 AM	bcontor			In Process

Other Information:

Receipt Number(s):
State or Federal: S
Owner Name Connector:
Water District Number:
Generic Max Rate per Acre:
Generic Max Volume per Acre:
Civil Case Number:
Old Case Number:
Decree Plantiff:
Decree Defendant:

PresumptionFlag:
Notice of Error Flag:C
Swan Falls Trust or Nontrust:
Swan Falls Dismissed:
DLE Act Number:
Cary Act Number:
Mitigation Plan: False

Verification Log:

Element	Date Time Stamp	Reviewer	Log Text
POD	1/3/01 11:29:23 AM	bcontor	1. (NO) The basis is not beneficial use. 2. (YES) Parent right has a Point of Diversion. 3. (NO) The claimed Point of Diversion can not be verified using the water right file. 4. (YES) There is evidence that there has been a change in the Point of Diversion. 5. (YES) The change can be verified as an accomplished transfer. Comment for 5: Field inspection, see file "Mud Lake Storage" 6. (YES) The file contains all the necessary information to verify the POD. 8. (NO) Point of Diversion remark was not required. 9. (NO) Point of Diversion condition was not required.
POD	12/5/00 9:39:29 AM	bcontor	Edited PLS
POD	12/5/00 9:37:28 AM	bcontor	Edited PLS
POD	12/5/00 9:37:13 AM	bcontor	Edited point location
POD	12/5/00 9:33:54 AM	bcontor	Edited point location
POD	12/5/00 9:32:07 AM	bcontor	Edited PLS
POD	12/5/00 9:31:50 AM	bcontor	Edited point location
POD	12/5/00 9:29:29 AM	bcontor	Edited point location
POU	1/3/01 11:40:07 AM	bcontor	1. (YES) The POU is required. 2. (NO) The basis of claim is not beneficial use. 3. (YES) The Parent Right has a POU. 4. (NO) The claimed POU can not be verified using the water right file. 5. (YES) There is evidence that there has been a change in the POU. 6. (YES) The change can be verified as an accomplished transfer. Comment for 6: GIS, claim, service area of company per T 5335 9. (YES) The file contains all the necessary information to verify the POU. 12. (YES) POU remark was required. 13. (NO) POU condition was not required.
Priority Date	1/3/01 11:28:11 AM	bcontor	1. (NO) There has not been a later court decree of the water right(s) from the water source. 4. (NO) The basis of claim is not beneficial use. 5. (NO) The basis of claim is not a posted notice. 6. (YES) Parent right has a priority date. 7. (NO) The basis of claim is not an application or permit. 12. (YES) The claim is recommended. 14. (NO) Priority remark was not required. 15. (NO) Priority condition was not required.
Quantity	1/3/01 11:49:45 AM	bcontor	1. (NO) The basis of claim is not beneficial use. 2. (NO) The basis of claim is not a posted notice. 3. (YES) The parent right has a diversion rate and/or diversion volume. 4. (YES) The claimed diversion rate and/or volume can be verified using the water right file. 7. (YES) The parent right has an annual diversion volume limit. 8. (YES) Irrigation is a purpose of use. 9. (YES) Quantity remark was required. 10. (NO) Quantity condition was not required.
Quantity	1/3/01 11:43:56 AM	bcontor	1. (NO) The basis of claim is not beneficial use.
Season	1/3/01 11:49:11 AM	bcontor	1. (NO) The basis of claim is not beneficial use. 2. (NO) The parent right does not have a period of use. 4. (NO) There is not evidence that there has been a change to the period of use. 9. (YES) The file contains all the necessary information to verify the period of use. 11. (NO) The basis of is not a decree, license, or a transferred beneficial use right that has had the period of use administratively determined. 13. (YES) Irrigation is the purposed use. 15. (NO) Period of Use remark was not required. 16. (NO) Period of Use condition was not required.
Season	1/3/01 11:43:53 AM	bcontor	1. (NO) The basis of claim is not beneficial use.

Source	1/3/01 11:30:07 AM	bcontor	1. (NO) The basis is not beneficial use. 2. (YES) Parent right has a source. 3. (YES) The claimed source can be verified using the water right file. Comment for 7: Decree 8. (YES) The source is surface water. 10. (NO) Source remark was not required. 11. (NO) Source condition was not required.
Summary	1/3/01 11:53:39 AM	bcontor	1. (NO) The basis of the claim is not beneficial use. 3. (NO) There is no indication that there has been a five year period of continuous nonuse that could result in a recommendation of forfeiture or partial forfeiture. 5. (NO) General remark was not required. 6. (NO) Explanatory remark was not required. 7. (YES) Additional condition was required. 8. (YES) Wanted to view the recommended right. 9. (NO) This is not a split right. 10. (NO) This is not a combined right. 11. (NO) Documents were not linked or attached to this file. 12. (YES) Set the verification date.
Use	1/3/01 11:46:42 AM	bcontor	1. (NO) The basis of claim is not beneficial use. 2. (YES) The parent right has a purpose of use. 3. (YES) The claimed purpose of Use can be verified using the water right file. 11. (NO) Purpose of Use remark was not required. 12. (NO) Purpose of Use condition was not required.
Use	1/3/01 11:43:52 AM	bcontor	1. (NO) The basis of claim is not beneficial use.

DD-XXX — no "R" records
AJ5802NP
SELECTION FILE: JH-OWSLEY

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION NAME INDEX

DATE: 06/30/99
TIME: 09:29:34
PAGE: 1

CLAIMANT	D C	WATER RIGHT NUMBER	STG STA	PRIORITY DATE	SOURCES OF WATER	TRIBUTARIES OF
MUD LAKE WATER USERS INC	C	A31-00006	D/	12/10/1917	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00034	D/	05/01/1920	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00035	D/	05/01/1921	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00036	D/	05/01/1922	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00037	D/	05/01/1923	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00038	D/	08/28/1924	MUD LAKE	SINKS
MUD[redacted]E WATER USERS INC	C	A31-00052	D/	09/06/1913	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00065	D/	10/03/1910	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00104	D/	10/18/1913	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00105	D/	12/15/1913	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00147A	D/	07/21/1913	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00159	D/	06/24/1916	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00162	D/	06/01/1916	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00163	D/	12/03/1916	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00166	D/	09/05/1912	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00168	D/	10/03/1910	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00169	D/	12/10/1917	MUD LAKE	SINKS
MUD[redacted]E WATER USERS INC	C	A31-00184	D/	04/15/1912	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00185	D/	12/02/1916	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-0018525	D/	12/02/1916	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00186	D/	08/11/1924	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00187	D/	05/01/1921	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00188	D/	03/09/1911	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00232	D/	05/01/1923	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00237	D/	11/28/1919	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00263	D/	10/14/1912	MUD LAKE	SINKS

CLAIMANT	O C	WATER RIGHT NUMBER	STG STA	PRIORITY DATE	SOURCES OF WATER	TRIBUTARIES OF
MUD LAKE WATER USERS INC	C	A31-00327	D/	11/16/1931	GROUNDWATER	MUD LAKE
MUD LAKE WATER USERS INC	C	A31-00328	D/	09/05/1912	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-00329	D/	01/03/1932	GROUNDWATER	MUD LAKE
MUD LAKE WATER USERS INC	C	A31-00330	D/	06/26/1936	GROUNDWATER	MUD LAKE
MUD LAKE WATER USERS INC	C	A31-00336B	D/	04/27/1932	GROUNDWATER	
MUD LAKE WATER USERS INC	C	A31-00337B	D/	12/15/1932	GROUNDWATER	
MUD[redacted]E WATER USERS INC	C	A31-00363	D/	08/28/1926	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-02239	L/	01/25/1930	GROUNDWATER	
MUD LAKE WATER USERS INC	C	A31-02365	L/	05/22/1940	GROUNDWATER	
MUD LAKE WATER USERS INC	C	A31-02276	D/	01/17/1969	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-02341	L/	09/03/1954	GROUNDWATER	
MUD LAKE WATER USERS INC	C	A31-02342	L/	09/03/1954	GROUNDWATER	
MUD LAKE WATER USERS INC	C	A31-02343	L/	09/03/1954	GROUNDWATER	
MUD LAKE WATER USERS INC	C	A31-02344	L/	09/03/1954	GROUNDWATER	
MUD LAKE WATER USERS INC	C	A31-02345	L/	09/03/1954	GROUNDWATER	
MUD LAKE WATER USERS INC	C	A31-07005	D/	12/04/1967	MUD LAKE	SINKS
MUD LAKE WATER USERS INC	C	A31-07043	L/	11/12/1970	GROUNDWATER	
MUD[redacted]E WATER USERS INC	C	A31-07199A	L/	05/14/1976	GROUNDWATER	
MUD LAKE WATER USERS INC	C	A31-10626	J/	04/01/1920	GROUNDWATER	
MUD LAKE WATER USERS INC	C	A31-10627	J/	04/01/1920	GROUNDWATER	MUD LAKE

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION OF RIGHTS TO THE USE OF WATER FROM THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: **A31-00006**
Date Received: 12/06/1988
Receipt No: E004950
Received By: _____

NOTICE OF CLAIM TO A WATER RIGHT ACQUIRED UNDER STATE LAW

1. Name: OWSLEY CANAL COMPANY 208-523-0620
   Address: % HOLDEN, KIDWELL, HAHN & CRAPO
   P.O. BOX 50130
   IDAHO FALLS, ID 83405

2. Date of Priority: DEC 10, 1917

3. Source: MUD LAKE Trib. to: SINKS

4. Point of Diversion:

Township	Range	Section	1/4 of 1/4 of 1/4	Lot	County
06N	34E	1	SE SW		JEFFERSON
			NE SE		JEFFERSON
			SW SE		JEFFERSON
			SE SE		JEFFERSON
07N	34E	34	SW SW		JEFFERSON

5. Description of diverting works:
   HEADINGS FOR OWSLEY CANAL AND LEVEL CANAL, SEE ATTACHMENT A.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S (or)	A.F.A.
IRRIGATION	04/01	11/01	1.400	
IRRIGATION STORAGE	11/01	04/01		17985.00
IRRIGATION FROM STORAGE	04/01	11/04		17985.00

7. Total Quantity Appropriated is:
   1.400 C.F.S. (and/or) 17985.00 A.F.A.

8. Total consumptive use is 63017.5 Acre Feet Per Annum.

9. Non-irrigation uses:
   NONE

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10. Place of Use:

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
06N	34E	3	NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		480.0
		4	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
		5	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0

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10. Place of Use: Continued

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
06N	34E	5	SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
		7	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		320.0
		8	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
		9	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0

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10. Place of Use: Continued

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
06N	34E	9	SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
						Section Acres	640.0
		10	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	20.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
						Section Acres	620.0
		11	NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
						Section Acres	320.0
		13	NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			NE	SW		IRR	40.0

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10. Place of Use: Continued

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
06N	34E	13	NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		400.0
		14	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	30.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		470.0
		15	NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		480.0
		16	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0

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10. Place of Use: Continued

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
06N	34E	16	NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
		17	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	30.0
			SE	SE		IRR	25.0
					Section Acres		615.0
		20	NE	NE		IRR	25.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0

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10. Place of Use: Continued

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
06N	34E	20	NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		625.0
		21	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	25.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		625.0
		22	NE	NE		IRR	20.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	20.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		600.0
		23	NE				10.0

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10. Place of Use: Continued

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
06N	34E	23	NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
		24	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	10.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	30.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		600.0
		25	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0

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10. Place of Use: Continued

Township	Range	Section	1/4 of 1/4		Lot	Use	Acres
06N	34E	25	NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
		26	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
		27	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0

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10. Place of Use: Continued

Township	Range	Section	1/4 of 1/4		Lot	Use	Acres
06N	34E	27	SE	SE		IRR	40.0
						Section Acres	640.0
		28	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
						Section Acres	640.0
		29	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
						Section Acres	640.0
		34	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0

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10. Place of Use: Continued

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
06N	34E	34	SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		560.0
		35	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
	35E	8	NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		200.0
		17	NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0

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10. Place of Use: Continued

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
06N	35E	17	NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
					Section Acres		320.0
		18	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
		19	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
		20	NE				40.0

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10. Place of Use: Continued

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
06N	35E	20	NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		640.0
		29	NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	10.0
			SE	SW		IRR	40.0
					Section Acres		290.0
		30	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	25.0
			SW	NW		IRR	25.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			NE	SE		IRR	40.0
			NW	SE		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0

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10. Place of Use: Continued

Township	Range	Section	1/4 of 1/4		Lot	Use	Acres
07N	34E	32	SE	SW		IRR	40.0
			SW	SE		IRR	40.0
			SE	SE		IRR	40.0
					Section Acres		120.0
		33	NW	SW		IRR	10.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			SW	SE		IRR	30.0
			SE	SE		IRR	10.0
					Section Acres		130.0
					Total Acres		17985.0

11. Place of use in counties: JEFFERSON

12. Do you own the property listed above as place of use? NO

13. Other Water Rights Used:
A31-00065/00168/00188/00184/00166/00263/00147/CON. IN REMARK

14. Remarks:
OWSLEY CANAL COMPANY HOLDS THIS AND ALL ITS WATER RIGHTS FOR THE USE AND BENEFIT OF THE LANDS OF ITS STOCKHOLDERS DESCRIBED IN THE ATTACHED LAND LIST (ATTACHMENT "C")____MUD LAKE & TRIBUTARIES A31-00052/00104/00105/00162/00159/00185/00163/00006/00169/00237/00034/00035/00187/00036/00037/00232/00038/00186/00363/.
BYBEE WELL FIELD-A31-00327/00328/00329/00330/.
NORTH LAKE WELL FIELD-31-02239/002265/02341/02342/02343/02344/02345/07005/. WATEWATER A31-02276/
**********MEMO**********
BASED ON IRRIGATED ACREAGE THE CONSUMPTIVE USE SHOULD BE 17985.0 X 2.5 = 44942.5.
ATTACHMENT B OF NOTICE DISCUSSES STORAGE PRACTICES BUT FAILS TO IDENTIFY A VOLUME. SINCE IRRIGATION STORAGE HAS BEEN CLAIMED FOR EACH NATURAL FLOW, RIGHT FOR DATA ENTRY PURPOSES. THE VOLUME WAS SET AT 1 AF/ACRE.
SEE A31-00065 FOR MAP OF THE AREA SERVED BY THIS RIGHT.

15. Basis of Claim: DECREED
Case Number:

MICROFILMED
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Court :
Decree date:

ERNEST SAUVE (Decree Plaintiff) vs W. H. ABBOTT, ET AL. (Decree Defendant)

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do ____ do not ____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: _____

For Organizations:

I do solemnly swear or affirm that I am _____ (Title) of _____ (Organization), that I have signed the foregoing document in the space below as _____ (Title) of _____ (Organization) and that the statements contained in the foregoing document are true and correct.

_____
Signature of Authorized Agent

_____
Title and Organization

_____
Date

State of Idaho)
) SS.
County of _____)

Subscribed and sworn (or affirmed) before me this _____ day of _____ 19 _____

_____
Notary Public

Seal

Residing at _____

My Commission Expires _____

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17. Notice of Appearance:

Notice is hereby given that I,_____ will be
Print Name

acting as attorney at law on behalf of the claimant signing above, and that all notices required by law to be mailed by the director to the claimant signing above should be mailed to me at the address listed below.

Signature_____

Address_____

Date_____

MICROFILMED
NOV 16 1992

Form No. 42-1409 (2) a 1/88

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION OF RIGHTS TO THE USE OF WATER FROM THE SNAKE RIVER BASIN WATER SYSTEM

CIVIL CASE NUMBER: 39576
Ident. Number 31-0006
Date Received
Receipt Number E004950

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

RECEIVED
NOV 30 1988
Department of Water Resources
Eastern District Office

A3100006

Please type or print clearly

1. Name of Claimant (s) Owsley Canal Company Phone (208) 523-0620
   Mailing Address % Holden, Kidwell, Hahn & Crapo P.O. Box 50130, Idaho Falls, Idaho Zip 83405

2. Date of Priority (Only one (1) per claim) December 10, 1917

3. Source of water supply (a) Mud Lake
   which is tributary to (b) _____

4. a. Location of existing point of diversion is: Township 6N Range 34E Section 1,
   _____ 1/4 of SE 1/4 of SW 1/4, Govt. Lot, _____ B.M., County of Jefferson
   Additional points of diversion if any: NE1/4SE1/4, SW1/4SE1/4, SE1/4SE1/4, all in Sec. 1; SW1/4SW1/4 Sec. 34, T7N, R34E.
   b. If instream flow, beginning point of claimed instream flow is:
   Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of _____ 1/4,
   Govt. Lot _____ B.M., County of _____
   ending point is: Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of
   _____ 1/4, Govt. Lot _____ B.M., County of _____

5. Description of existing diversion works (Dams, Reservoirs, Ditches, Wells, Pumps, Pipelines, Headgates, Etc), including the dates of any changes or enlargements in use, the dimensions of the diversion works as constructed and as enlarged and the depth of each well. See Attachment "A"

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6. Water is claimed for the following purposes:

		(both dates are inclusive)			(cfs)		(acre feet)
For	Irrigation	purposes from	Apr 1	to Nov 1	amount 1.4	or	
For	Irr. Storage	purposes from	Nov 1	to Apr 1	amount	or	See Attachment "B"
For		purposes from		to	amount	or	
For		purposes from		to	amount	or	

7. Total quantity claimed (a) 1.4 (cfs) and/or (b) See Attachment "B" (acre feet)

8. Total consumptive use claimed is 63,017.5 acre feet per annum, for combination of all rights shown in Attachment "D".

9. Non-irrigation uses; describe fully (eg. Domestic: Give number of households served; Stockwater: Type and number of livestock Etc.)

10. Description of place of use: See Attachment "C"
   a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
   b. If water is used for other purposes, place a symbol of use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RNG	SEC	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	

Total number of acres irrigated 18,005

11. In which county (ies) are lands listed above as place of use located? Jefferson

12. Do you own the property listed above as place of use? Yes ____ No X
If your answer is No, describe in Remarks below the authority you have to claim this water right.

13. Describe any other water rights used at the same place and for the same purposes as described above.
See Attachment "D" (list of all water rights for Owsley service area) or None ( )

14. Remarks: Owsley Canal Company holds this and all its water rights for the use and benefit of the lands of its stockholders described inthe attached land list (Attachment "C").

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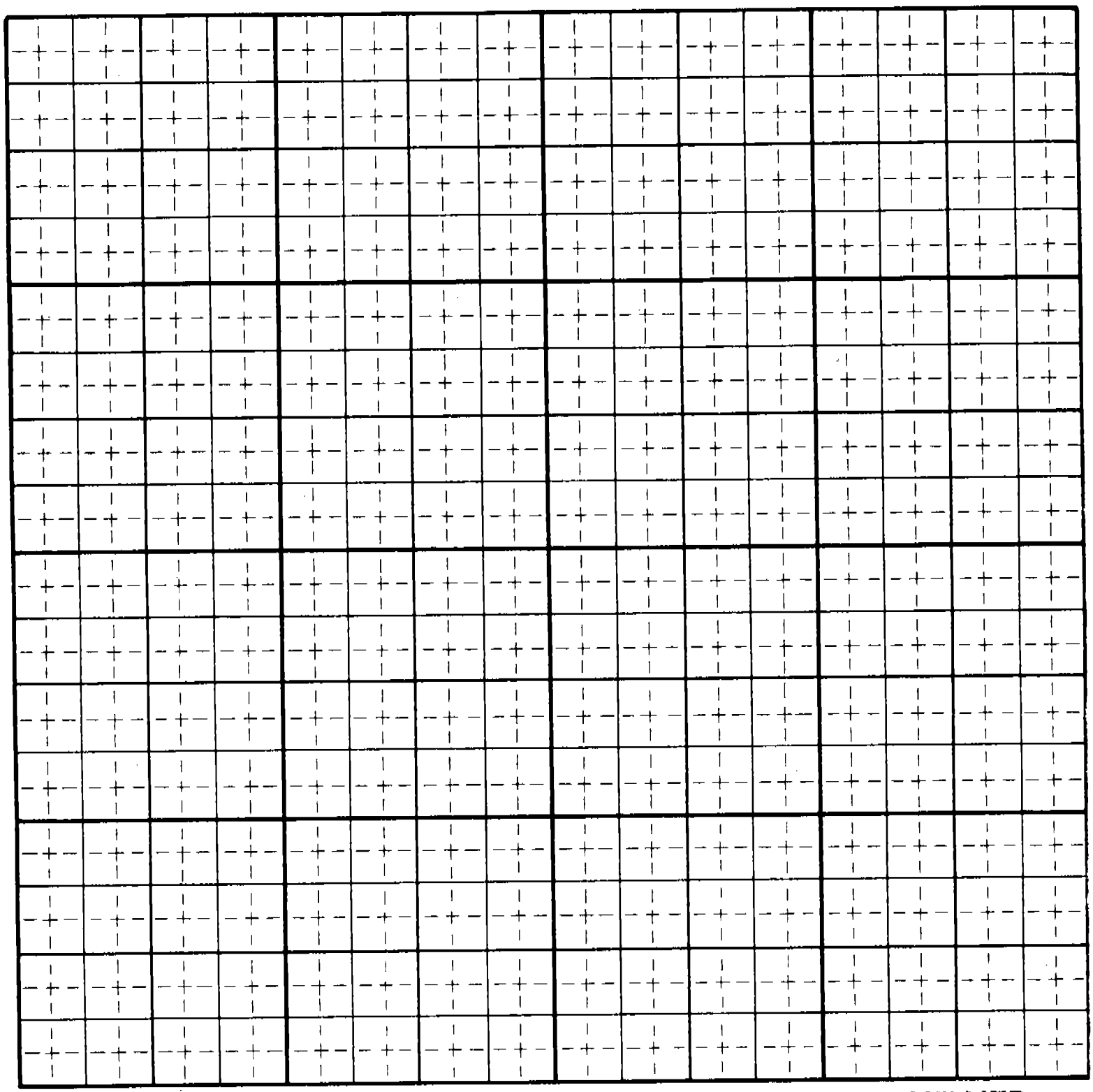
Last Name Owsley Canal Co. Ident No. 31-0006

Copies: White -State, Yellow-Claimant

Map of Project: show clearly the point of diversion, place of use, section number, township, and range number.

Scale: 2 inches equals 1 mile

See set of maps accompanying all Owsley Canal Company claims



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NOV 16 1992

Last Name Owsley Canal Co. Ident No. 31-0006 *Copies: White-State, Yellow-Claimant*

15. Basis of Claim (check one) Beneficial Use _____ Posted Notice _____ License _____ Permit _____
Decree X
If applicable provide IDWR Water Right Number 31-0006
Court U.S. District Case Number 635 Decree Date Nov. 1, 1930
Plaintiff vs Defendant Ernest Sauve v. W. H. Abbott, et al.

16. Signature (s)
(a.) By signing below, I/We acknowledge that I/We have received, read, and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not X wish to receive and pay a small annual fee for monthly copies of the docket sheet.
Number of attachments 5

For **Individuals:** I do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant (s) _____ Date _____

_____ Date _____

For **Organizations**: I do solemnly swear or affirm that I am Vice President (Title) of Owsley Canal Company (Organization), that I have signed the foregoing document in the space below as Vice President (Title) of said corporation (Organization) and that the statements contained in the foregoing document are true and correct.

Signature of Authorized Agent [signature]

Title and Organization Vice Pres., Owsley Canal Company Date Nov. 30, 1988

State of Idaho/or _____)
) SS.
County of Bonneville)

Subscribed and sworn (or affirmed) before me this 30th day of November 19 88

SEAL

Notary Public [signature]

Residing at Idaho Falls, Idaho

My Commission Expires November 10, 1992

Please Print Name

17. Notice of Appearance:
Notice is hereby given that I, Kent W. Foster will be acting as attorney at law on behalf of the claimant signing above, and that all notices required by law to be mailed by the director to the claimant signing above should be mailed to me at the address listed below.

Signature [signature]

Address P.O. Box 50130, Idaho Falls, Idaho 83405

Date November 30, 1988

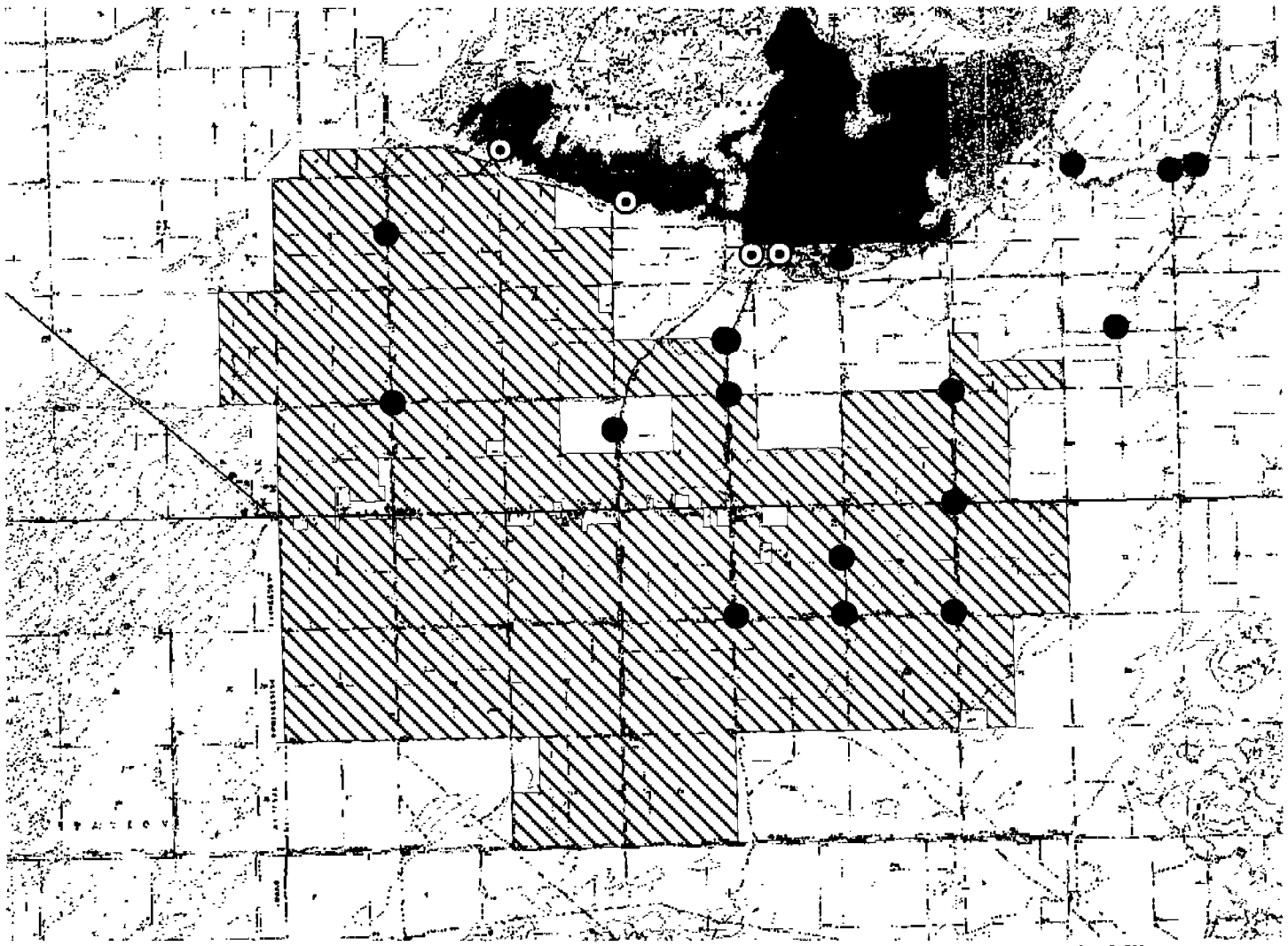
MICROFILMED
NOV 16 1992

Last Name Owsley Canal Co. Ident. Number 31-0006

Copies White-State, Yellow-Claimant

Idaho Department of Water Resources

Mud Lake Water Users
"Owsely" Surface Water Rights



- Point of Diversion
- Point of Diversion - Other Rights
- Place of Use
- Place of Use - Other Rights
- Quarter-quarter Sections
- Section Lines

N
W
E
S

GIS Illustration prepared from 1987/1988 NAPP photography by B. Contor 12/2000

01/16/2001

NOTICE OF ERROR
REPLY

Please type or print clearly, fill out this form completely and mail.

Return this reply form to IDWR by the deadline date printed below if you want IDWR to change your recommendation or you want to let IDWR know that you agree with its recommendation.

YOUR DEADLINE FOR RETURNING A NOTICE OF ERROR REPLY IS: ~~February~~ March 9, 2001

Water right number: 31-6

MUD LAKE WATER USERS INC
1400 E 1500 N
PO BOX 68
TERRETON, ID 83450

Daytime Telephone Number: (208)663-4359
Evening Telephone Number:

1. Describe the portion of the proposed recommendation with which you disagree (e.g. priority date, period of use, source):

2. Describe the changes you wish to make in the proposed recommendation:

3. Give a brief explanation as to why you disagree with these portions:

✓ **I AGREE with this proposed recommendation: no changes need to be made.**

DATE: 2-12-2001 **SIGNATURE:** Garth Soderquist

Please print your name: _____

MUD LAKE WATER USERS, INC.
P. O. BOX 68
TERRETON, ID 83450

IDWR Regional Office, 900 N Skyline, Idaho Falls, ID 83402, (208) 525-7161

The respective defendants herein named are entitled to divert from Mud Lake and its tributaries as hereinafter indicated, for use on their respective lands as hereinafter described, the following amounts:

Name and Date of Priority	Amount in Second Feet	Source Point of Diversion and Place of Use.
W. H. Abbott 31-0005 ✓ OCC 1910 - October 3	1.6 c.f.s.	Source: Mud Lake.
31-0006 ✓ 1917 - December 10 OCC	1.4 c.f.s.	Point of Diversion: In the Southwest Quarter of the Southeast Quarter of Section 22, Township 7 North, Range 34 East, B. M. For use on the following described land, to-wit: North Half of the Northwest Quarter, Southeast Quarter of the Northwest Quarter of Section 28; Northeast Quarter of the Northeast Quarter of Section 29, -- all in Township 7 North, Range 34 East, B. M.

80
40
40
160

160 / (1.6+1.4) x 1.4 = 75

1.4 x 2 x 123 = 344.4

160 / 5 = 32

21

No. 2

State of Idaho
DEPARTMENT OF WATER RESOURCES
900 N. Skyline Dr., Suite A, Idaho Falls, Idaho 83402-1718 - (208) 525-7161- Fax (208) 525-7177

EASTERN REGION

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

June 30, 1999

GARTH SODERQUIST
MUD LAKE WTER USERS INC
PO BOX 68
TERRETON ID 83450

RE: NOTICE OF CHANGE OF WATER RIGHT NAME (OWSLEY CANAL - MUD LAKE WATER USERS INC)

Dear Mr. Soderquist:

The request for Change of Name concerning the attached list of claims has been processed and the Department's records updated to reflect you as the new claimant.

I have also notified the water measurement district of the change.

Please keep this report for your records.

Respectfully yours,

Jennifer Hoagland

Jennifer Hoagland
Technical Records Specialist

Enclosure

cc: Kent Foster

Form 42-248/42-1407(6) 8/30/96

DELOG EC
6/24/99

STATE OF IDAHO
IDAHO DEPARTMENT OF WATER RESOURCES

RECEIVED
JUN 2 4 1999
Department of Water Resources
Eastern Region

NOTICE OF CHANGE OF WATER RIGHT OWNERSHIP

Please print or type. Attach pages with additional information. Instructions are on the back of this page.
Incomplete forms will be returned.

1. Water Right Number(s) _____

   Adjudication Claim Number(s) See attached list

2. The following REQUIRED information must be submitted with this form.

   A. A copy of the most recent DEED, TITLE POLICY, CONTRACT OF SALE, or other legal document indicating your ownership of the property and water rights or claims in question, WITH ATTACHED LEGAL DESCRIPTION.

   AND

   B. PLAT OF PROPERTY or SURVEY MAP for parcel of ten acres or less. (These are usually on file with the county.)

   OR

   C. For water rights or adjudication claims involving ten or more irrigated acres, a USDA Farm Service Agency (formerly ASCS) AERIAL PHOTO with irrigated acres outlined and point(s) of diversion clearly marked.

3. Name and Address of Former Owner/Claimant(s) Owsley Canal Company

4. New Owner/Claimant(s) Mud Lake Water Users, Inc.
   Name connector (Check one): [ ] AND, [ ] OR, [ ] AND/OR

   New Mailing Address P.O. Box 68

   City, State and ZIP Code Terreton, Idaho 83450

   New Telephone Number (208) 663-4359

5. Date you acquired the property _____

6. If you have acquired only a portion of the former owner's property, IDWR may need to split the water right(s) or adjudication claim(s). If this applies, describe in detail your portion of each water right or adjudication claim in the spaces below. If necessary, attach additional pages.

   Number of acres actually irrigated _____ Number and type of stock _____

   Diversion rate in CFS _____ (cubic feet per second) Number of homes _____ Other uses _____

   If a water right or adjudication claim is being split and you are not sure how to identify your portion of the original right or claim, please contact the nearest IDWR office for assistance.

7. Signature of New Owner/Claimant(s) Mud Lake Water Users, Inc Date 6-24-99
   Garth Soderquist, President Date 6-24-99

   (Corporations or other organizations must submit a list of directors/officers demonstrating authority to sign form.)

8. For Snake River Basin Adjudication Claims: If you are represented by an attorney and you want IDWR to correspond directly with your attorney for all matters related to your claims, please attach a Notice of Appearance completed by your attorney.

204

ARTICLES OF AMENDMENT
(Non-profit)

To the Secretary of State of the State of Idaho
Pursuant to Title 30, Chapter 3, Idaho Code, the undersigned non-profit corporation amends its articles of incorporation as follows:

FILED
99 MAR 22 AM 10:43
SECRETARY OF STATE
STATE OF IDAHO

1. The name of the corporation is: Owsley Canal Company

2. The text of each amendment is as follows:

Change of name is:
Mud Lake Water Users, Inc.
1400 East 1500 North
P.O. Box 68
Terreton, Idaho 83450

3. The date of adoption of the amendment(s) was: March 17, 1998

4. Manner of adoption (check one):

☐ Each amendment consists exclusively of matters which do not require member approval pursuant to section 30-3-90, Idaho Code, and was, therefore, adopted by the board of directors. (Please fill spaces below)

a. The number of directors entitled to vote was: _____
b. The number of directors that voted for each amendment was: _____
c. The number of directors that voted against each amendment was: _____

☒ The amendment consists of matters other than those described in section 30-3-90, Idaho Code, and was, therefore adopted by the members. (Please fill spaces below)

a. The number of members entitled to vote was: 127

b. The number of members that voted for each amendment was: 48

c. The number of members that voted against each amendment was: 4

Dated: March 8, 1999

Signed by: Garth Sederquist

Its President
(Capacity of signer)

Customer Acct #:
(if using pre-paid account)

Secretary of State use only

IDAHO SECRETARY OF STATE
03/22/1999 09:00
CK: 8836 CT: 91790 BH: 199218
1 @ 30.00 = 30.00 NON PROF A # 2

C 9932

g:\corp\forms\Amend NP pm6 Revised 7/98

ATTACHMENT "A"

DESCRIPTION OF
EXISTING DIVERSION WORKS

The Owsley Canal Company diversions fall into four categories:

1. Diversions from Mud Lake in Section 1, T6N, R34E.

Water under all rights to the natural flows of Mud Lake and its tributaries, water diverted by the Bybee wells, and at times much of the water diverted by the North Lake wells, as well as water under all storage rights in connection with such sources, flows from Mud Lake through the main intake canal of the company to the main lift pumping station located just south of Highway 28 in the NW1/4NW1/4 of Section 24, T6N, R34E. There are four pumps at the main lift station, three 200 HP pumps and one 150 HP pump. The pumps lift water about seventeen feet and produce some 329 cfs of flow in the canal system. In addition some water is diverted through the Level Canal Company intake from Mud Lake in the SW1/4SW1/4 Section 34, T7N, R34E and then recaptured by means of a pump located on the south bank of said canal in the SE1/4SE1/4 Section 33 of said township and range for the irrigation of some two hundred acres of farm land. This is referred to as the Shively (tenant) or Staley (landowner) diversion.

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NOV 16 1992

2. Diversions of groundwater at the Bybee well field in Section 25, T7N, R35E.

When these wells were first drilled, the water flowed from them under pressure in the amount of about 200 cfs. Over the years the number of wells and the depth has been increased, and pumps have been installed to produce the 200 cfs. There are now eight wells with pumps. They range in depth from twenty-two feet to one hundred feet. There are six 100 HP pumps, one 75 HP pump and one 60 HP pump. Water from the wells is collected in a system of ditches with a large sump and discharged through a concrete and earthen structure into Camas Creek. It flows through the channel of Camas Creek to Mud Lake from which it is then rediverted as described above.

3. Diversions of groundwater at the North Lake well field in Sections 13, 18, 19 and 24 of T7N, R34E.

There are some sixteen drilled wells in this location, eleven are currently in use. Their combined maximum capacity is 197.66 cfs. The depth of nearly all eleven producing wells is one hundred feet. All but one of the pumps are 75 HP pumps; one is a 60 HP pump. These wells discharge into a system of collection ditches which feed a main ditch running in a generally southwesterly direction to a bifurcation structure in Section 34 of said township and range. From the bifurcation structure, water is either delivered south into Mud Lake for rediversion as described above, or in a southwesterly direction to the west lift pumps of the company, sometimes referred to as the "Sparks Pumps". This lift station is located in the

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NOV 16 1992

SW1/4SW1/4 of Section 33, T7N, R34E where the water is lifted some fifteen feet into the Owsley Canal system.

4. Diversions of wastewater within the Owsley Canal system by means of subpumps.

There are twelve subpumps located strategically throughout the Owsley system for the purpose of pumping excess tailwater and subwater from irrigation of the lands back into either the canal system or Mud Lake for reuse. These are relatively smaller pumps ranging in size from 3 HP to 20 HP and lift water eight to eighteen feet.

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ATTACHMENT "B"

STORAGE RIGHTS

IN

MUD LAKE

Under the federal court decree in the case of Ernest Sauve v. W. H. Abbott, et al., Case No. 635, entered November 1, 1930, the watermaster is charged with the responsibility of accounting for water stored in Mud Lake during the nonirrigation season on the basis of priorities to the use of the waters of Mud Lake and its tributaries during the irrigation season.

As a result of the drilling of wells which for many years resulted in the flow of significant amounts of water therefrom without the necessity of pumping, other court decrees have resulted which also impact such storage rights. Notable among such decrees is the one entered by the District Court of the Ninth Judicial District for Jefferson County in the case of Owsley Canal Company v. Ernest Bauerle, et al., Case No. 1739, on October 14, 1940.

By the early 1960's, most of such flowing wells had ceased to flow in average water years, either during the irrigation or nonirrigation season. Pumps were installed and in very recent years some wells have been deepened in order to provide the

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required amounts of water. Coincidentally with the increased number of groundwater diversions in the areas surrounding Mud Lake, wintertime flows from Camas Creek and the other tributaries have, in many of the past twenty to twenty-five years, been insufficient to fill Mud Lake.

In response to the need to fill Mud Lake during the nonirrigation season, for the benefit of all holders of natural flow and storage rights therein; a practice has developed of pre-irrigation season pumping from many of the same wells which are the subject of the Owsley v. Bauerle decree, as well as some other wells. The pre-season pumping has been done pursuant to an agreement entered into by all those who hold rights to the use of the waters of Mud Lake. A copy of the agreement currently in effect is attached hereto.

Claimant has made a claim for storage rights under each of its natural flow rights. The storage capacity of Mud Lake is only 45,000 acre feet, which is far less than the combined total of the potential storage rights of all holders of such rights. In addition to the limitations imposed upon such claimed storage rights by nature, by the size of the storage facility, by the applicable decrees of courts and the priorities provided therein, such storage rights have been and are presently subject to the practice described in the attached current pre-season pumping agreement.

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ATTACHMENT "C"

OWSLEY CANAL COMPANY SERVICE AREA
DESCRIPTION OF PLACE OF USE

TWP	RNG	SEC	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	
6N	34E	3					40	40	40	40	40	40	40	40	40	40	40	40	480
		4	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		5	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		7	40	40	40	40									40	40	40	40	320
		8	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		9	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		10	40	40	40	40	20	40	40	40	40	40	40	40	40	40	40	40	620
		11									40	40	40	40	40	40	40	40	320
		13						40	40		40	40	40	40	40	40	40	40	400
		14	40	40	40	40					40	40	40	30	40	40	40	40	470
		15					40	40	40	40	40	40	40	40	40	40	40	40	480
		16	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		17	40	40	40	40	40	40	40	40	40	40	40	40	40	40	30	25	615
		20	25	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	625
		21	40	40	40	40	40	25	40	40	40	40	40	40	40	40	40	40	625
		22	20	40	40	40	40	20	40	40	40	40	40	40	40	40	40	40	600
		23	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		24	40	40	40	40	10	40	40	30	40	40	40	40	40	40	40	40	600
		25	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
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		29	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		34	40	40	40	40	40			40	40	40	40	40	40	40	40	40	560
		35	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
6N	35E	8										40	40	40			40	40	200
		17					40	40	40	40	40	40	40	40					320
		18	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		19	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		20	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		29					40	40	40	40	40	40	10	40					290
		30	40	40	40	40	40	25	25	40	40	40	40	40				40	610
7N	34E	32												40			40	40	120
		33										10	40	40			30	10	130

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NOV 16 1982

ATTACHMENT "D"

OWSLEY CANAL COMPANY

LIST OF WATER RIGHTS FOR SERVICE AREA

A. Mud Lake and Tributaries

31-0065
31-0168
31-0188
31-0184
31-0166
31-0263
31-0147
31-0052
31-0104
31-0105
31-0162
31-0159
31-0185
31-0163
31-0006
31-0169
31-0237
31-0034
31-0035
31-0187
31-0036
31-0037
31-0232
31-0038
31-0186
31-0363

B. Bybee Well Field

31-0327
31-0328
31-0329
31-0330

C. North Lake Well Field

31-2239
31-2265
31-2341
31-2342
31-2343
31-2344
31-2345
31-7005

D. Wastewater

31-2276

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NOV 16 1992

RIGHTS FROM: SOURCE: GROUNDWATER

RIGHT NUMBER: 31-10006

NAME & ADDRESS: GARTH SODERQUIST
MARVETTA SODERQUIST
PO BOX 94
TERRETON ID 83450

SOURCE: GROUNDWATER

QUANTITY: 0.02 CFS

THE QUANTITY OF WATER UNDER THIS RIGHT SHALL NOT EXCEED 13,000 GALLONS PER DAY.

PRIORITY DATE: 05/01/1945

POINT OF DIVERSION: T06N R34E S10 SENENE Within JEFFERSON County

PURPOSE AND PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
DOMESTIC DOMESTIC, 1 HOME	01-01 12-31	0.02 CFS

PLACE OF USE: DOMESTIC Within JEFFERSON County
T06N R34E S10 NENE

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

THE QUANTITY OF WATER DECREED FOR THIS WATER RIGHT IS NOT A DETERMINATION OF HISTORICAL BENEFICIAL USE.
PARCEL NO. RP06N34E100001A

EXPLANATORY MATERIAL: BASIS OF CLAIM - BENEFICIAL USE

X

Claim data entry by: CA

Date: 8-14-97

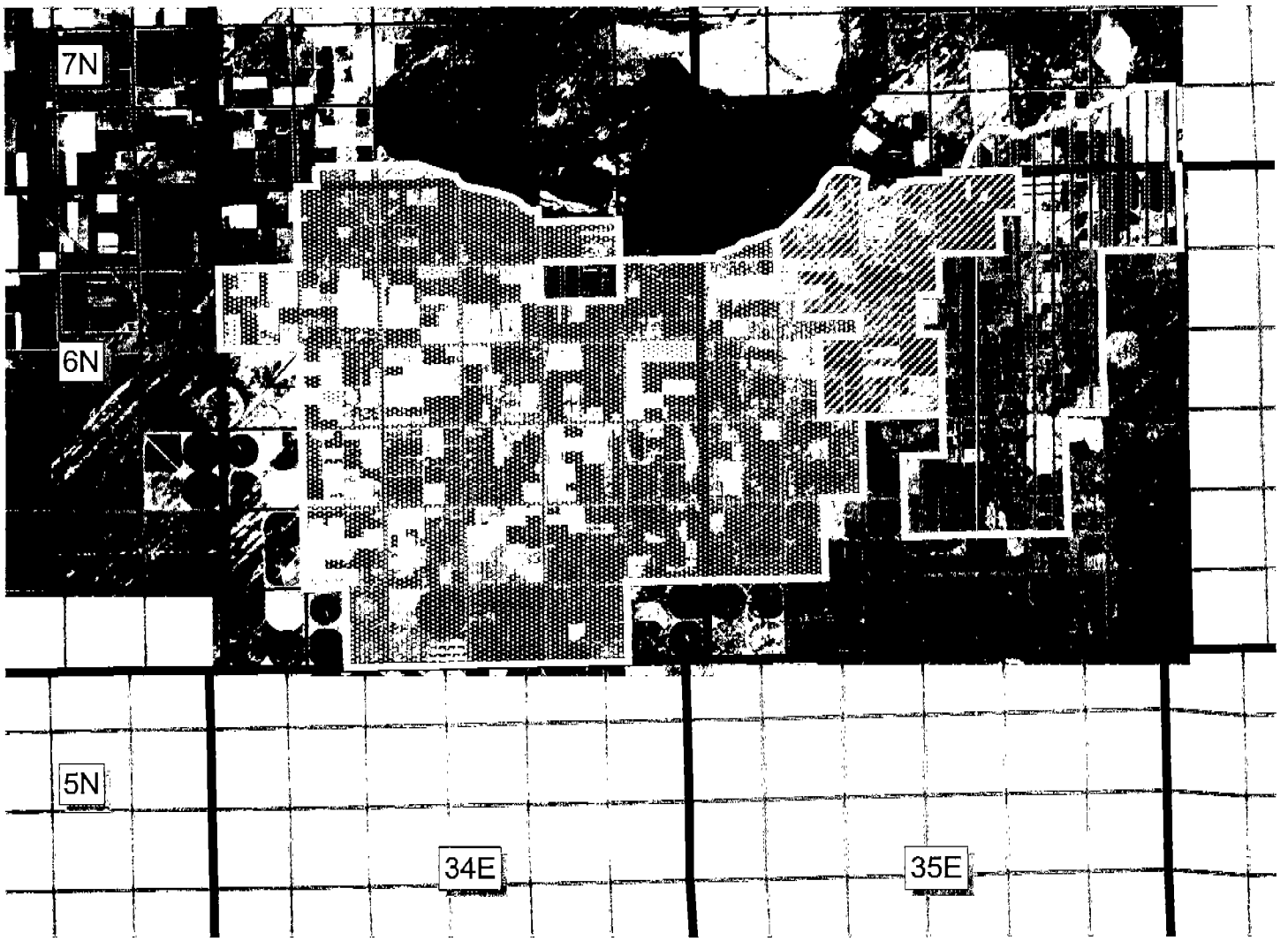
Data entry verified by: LGT

Date: 8/15

Idaho Department of Water Resources

Mud Lake Water Users
Service Area

Township 6N Range 34E, 6N Range 35E,
7N Range 34E, 7N Range 35E



1 0 1 Miles

Holley Division
Jackett Division
Owsley Division
Township
Section

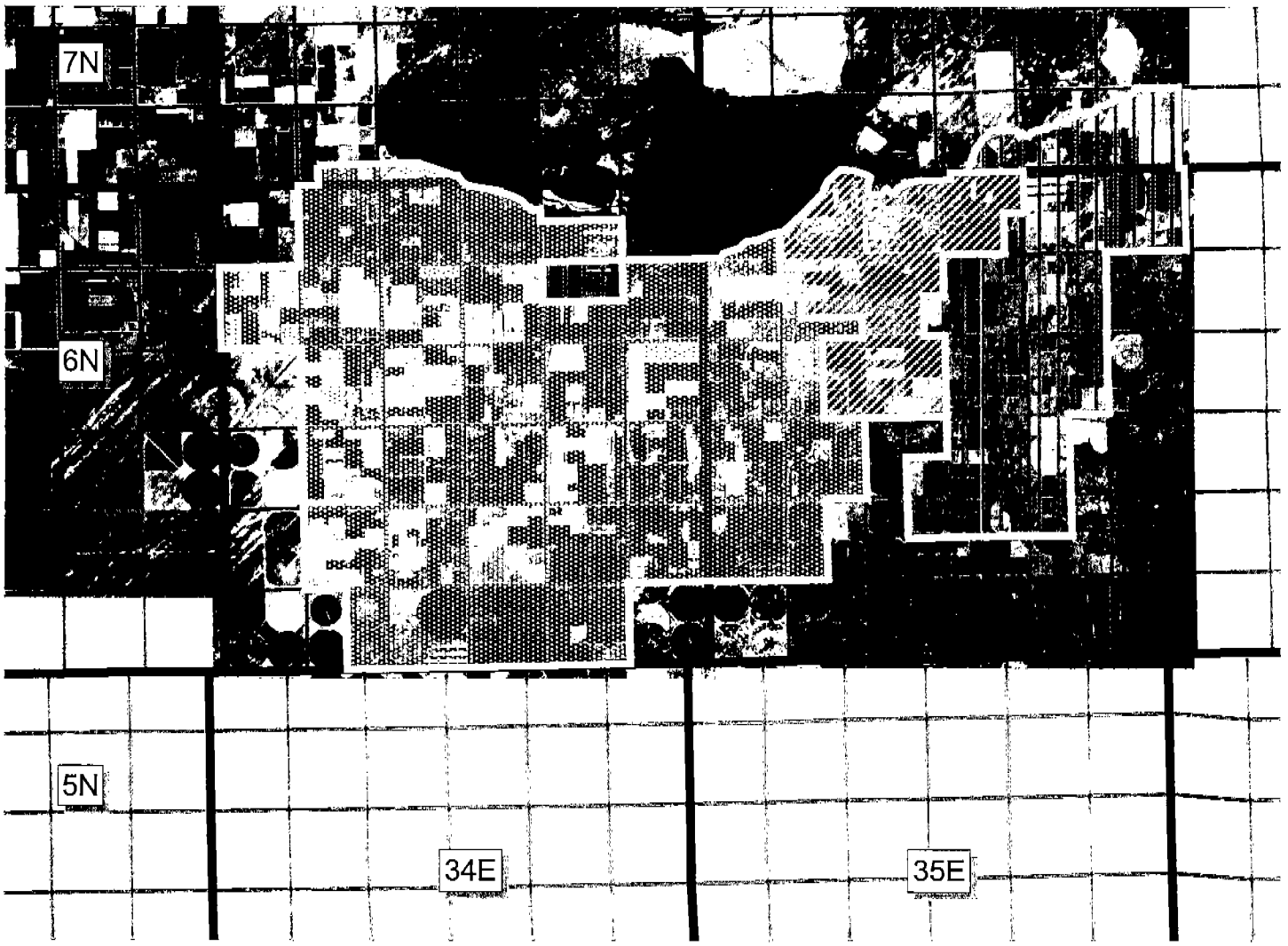
N
W
E
S

GIS Illustration prepared from 1987/1988 NAPP photography by B. Contor 7/2001

Idaho Department of Water Resources

Mud Lake Water Users
Service Area

Township 6N Range 34E, 6N Range 35E,
7N Range 34E, 7N Range 35E



1 0 1 Miles

Holley Division
Jackett Division
Owsley Division
Township
Section

N
W
E
S

GIS Illustration prepared from 1987/1988 NAPP photography by B. Contor 7/2001

Contor, Bryce

From: Contor, Bryce
Sent: Wednesday, July 11, 2001 5:39 PM
To: Shaff, Don
Subject: MLWU Layout

On AE02 "X" drive layouts, B31 folder. MLWU New in three formats (as this is going before the court we may actually want it to look nice, which is mutually exclusive with JPG format). Also a hard copy printed to Joan's Printer (Fiscal 101).

SCANNED NOV 0 8 2001

Bryce Contor
Idaho Department of Water Resources
bcontor@idwr.state.id.us
bcontor@hotmail.com

State of Idaho
DEPARTMENT OF WATER RESOURCES
900 N. Skyline Dr., Suite A, Idaho Falls, Idaho 83402-1718 - (208) 525-7161- Fax (208) 525-7177

EASTERN REGION

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

MEMORANDUM

To: Deena Teel
Bureau of Land Management
FAX 525-7505
Fr: Bryce Contor
Date: 2/12/2001

Re: Tentative Service Area for Mud Lake Water Users

Could you please review the attached map and let me know of any potential conflict with BLM lands?

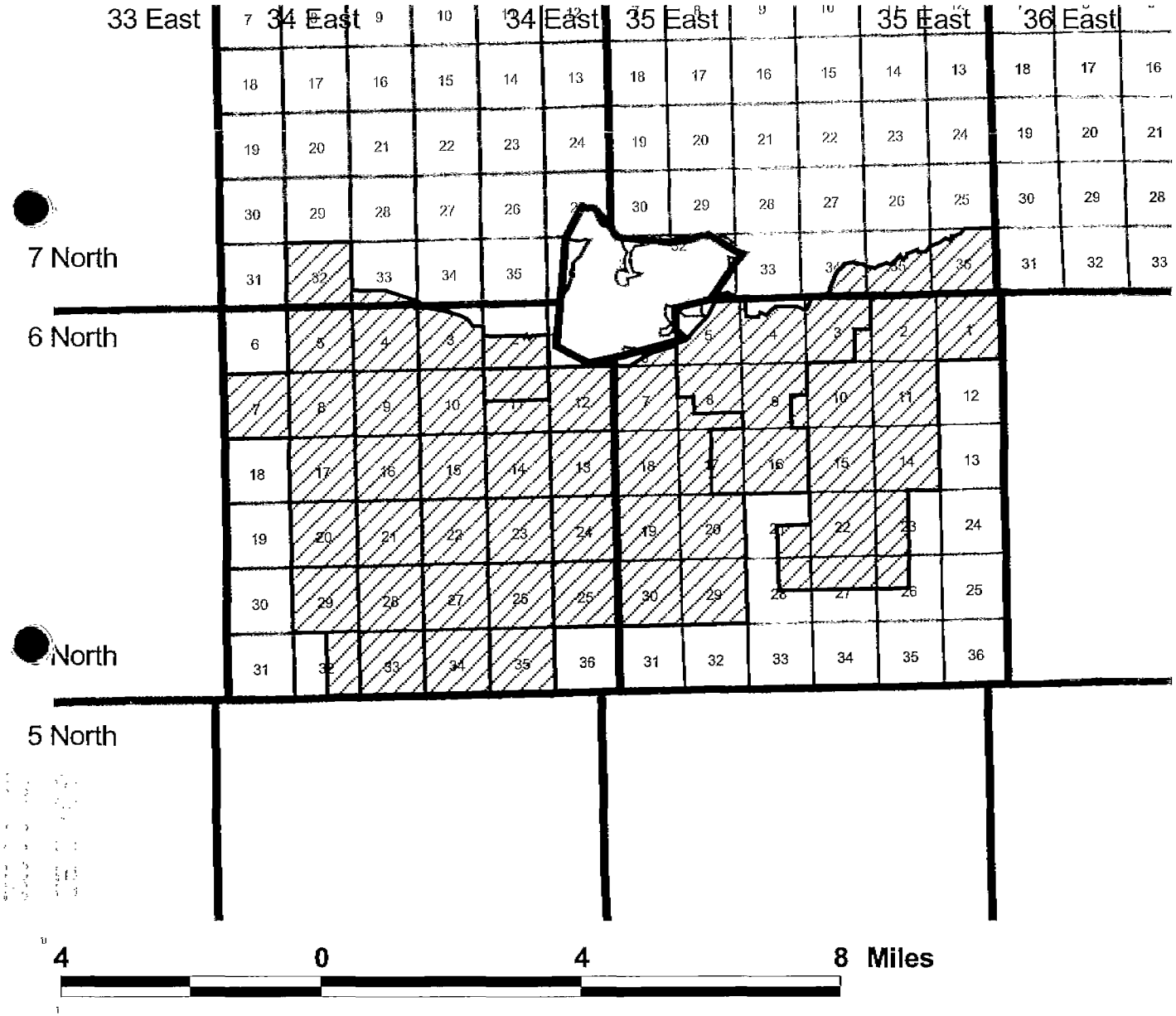
You may call me at 525-7161, FAX a response to 525-7177, or e-mail bcontor@idwr.state.id.us. I'll be in until about noon today, until 2:30 PM tomorrow.

Thank you.

Post-it® Fax Note 7671	Date 1-2-01	# of pages ▶ 2
To Deena Teel	From B Contor	
Co./Dept. BLM	Co. IDWR	
Phone #	Phone # 525-7161	
Fax # 524-7505	Fax # 525-7171	

SCANNED
NOV 0 8 2002

Tentative Mud Lake Water Users Service Area



Theme1.shp
Mlwularge.shp
Tandr.shp
S07n34e.shp
S06n34e.shp
S07n36e.shp
S07n35e.shp

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S

MEMORANDUM

To: Mud Lake Water Users General File
A31-332
A31-11430
A31-11432
Fr: Bryce Contor
Date: 2/23/2001

Re: Office visit

Today I visited in the office with chairman Jerry Messerli, retired chairman Garth Soderquist, and manager Shawn Grover.

We discussed the attached memo on loss calculations and total recommended volumes. I told them that the current recommendations totaled about 195,000 acre feet but that I felt this was an error. Based on the transfer, the calculations of actual need, and the calculations of capacity, I should have added a combined use limitation to the 174,195 acre feet authorized by transfer 5335.

There are two reasons for this proposed combined limitation: 1) My charge is to recommend the water rights as accurately as possible, and this appears to more accurately reflect historical usage. 2) The 174,195 acre feet figure is defensible against objection because it was approved in a post-1987 formal transfer, and any objectors have already had due process during that administrative action.

We carefully reviewed the calculations, and it appears that 174,195 acre feet is adequate to meet the irrigation needs, losses in canals from the lake to place of use, losses in the lake, and losses from the points of diversion to the lake. It is true that the company also holds surface rights, but there are years in which little or no surface water is available, so the well rights must be adequate to provide all the company's needs.

The three gentlemen here today felt this would be acceptable, but they want to take it back to the board. I suggested it might be worthwhile to have a professional engineer review the loss calculations, and told them I had to have any requests for change back by March 20.

The tentative decision is that unless the board and/or the consultant disagree, I will add the combined use limitation but otherwise recommend the rights as proposed in the preliminary. Because I didn't catch the need for the combined use limitation early-on, and include it on the preliminary report, I feel I shouldn't add it now if they disagree.

SCANNED
NOV 0 8 2002

MEMORANDUM

To: Mud Lake Water Users General File
31-11430 31-332
31-11432

Fr: Bryce Contor

Date: 2/17/01

Re: Loss Calculations

I. Loss in Lake

Watermaster Records, 1996, show 29,730 acre ft. lake loss.

GW recommendations via lake total:

MLWUA	24,261.3
Independent & Robson	4,109.0
	28,370.3 acres

Loss/acre = 29,730/28,370.3 = 1.05 acre ft/acre

24,261.3 x 1.05 = 25,474.4 acre feet.

II. Loss in Canals fr. Lake to Places of use

a) Jacobett - $\frac{3 \text{ miles} \times 5280 \text{ ft} \times 20 \text{ ft}}{43560 \text{ ft}^2/\text{acre}} = 7.3$ acres

b) Holley - $\frac{5 \text{ miles} \times 5280 \text{ ft} \times 25 \text{ ft}}{43560 \text{ ft}^2/\text{acre}} = 12.2$ acres

c) Owsley - $\frac{14 \text{ miles} \times 5280 \text{ ft} \times 40 \text{ ft}}{43560 \text{ ft}^2/\text{acre}} = 67.9$ acres

SCANNED
NOV 08 2002

Total 87.4 acres × 0.2 in/hr* × 1 ft/12 in × 24 hrs/day = 35.0 cf/day

35 acre ft/day × 185 days = 6,475 acre ft.

III. Field headgate requirement

24,261.3 × 35 = 84,914.6 acre ft.

IV. Total Required in Lake (Delivered to Lake)

Lake loss	25,474.4	acre feet
Canal loss	6,475.0	acre ft
Field headgate	84,914.6	acre ft
	116,864.0	acre ft.

V. Required at Pump

Watermaster records indicate up to 39% loss in Independent / Jackett Ditch. Holley & Owsley wells are right on Canes Creek & therefore no loss is allowed. North Lake ditch looses up to 20.4% per USGS study.

These losses are pro-rated to required

SCANNED
NOV 0 8 2002

* upper range for Tenetom loam from soil survey.

acre feet by proportion of pumping capacity &/or original acres.

Assume North Lake ≈ 1/3 of Dwsley capacity, x 17800 original dwsley acres = 5933 acres

Jackett ≈ 3100 acres per merger documents.

North Lake requirement = 116864 x 5933/24261 = 28,600
28,600/(100% - 20.4%) = 35,930 acre ft

Jackett Requirement = 116864 x 3100/24261 = 14,933
14,933/(100% - 39%) = 24,480 acre ft

Bybee/Holley = 116864 - (28,600 + 14,933) = 73,331

Total Req. @ diversions

Jackett	24,480
North Lake	35,930
Bybee/Holley	73,331
Total	133,741 acre ft.

VI. Max volume during irr. season at max rate

503 x 1.9835 x 185 = 184,575

SCANNED
NOV 0 8 2002

VII. Required volume for Early pumping

Watermaster records show 26,394 acre ft stored in lake in 1991.

Previous calculations showed requirement of 26,434 (from MLWU) required to fill lake in a dry year.

VIII. 61 day volume & 185-day volume at 1995 capacity

310 Owsley & Jacket (from 1995 early-pumping records)

47 Holley (from decreed rates)

357 cfs

357 × 1.9835 × 61 = 43,195

357 × 1.9835 × 185 = 131,000

174,195

IX. Authorized volume per T 5335 is 174,269.3

Proposed volume for Ben. Use claims is an additional 21,434

SCANNED

NOV 0 8 2002

MLWU p5

Total proposed volume = 195,703

Total capacity (1995) = 174,195 ★

Total requirement @ well = 133,741

12000

600 . 503

$\times 6$
185
246

174000
246

707 360 cfs

44

25000
3.5
75000
12500
87500
.70

125000

90,000

25000
6
150,000

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Summary of MCWA Surface Water recommended Volumes

B. Cotton 2/17/2001

31-2276	Wastewater Vol. for License. Not avail from lake, not incl. in totals		44.3
Owsley Division fr. Lake			
31-6	Decreed	1.4 x 2 x 123	344.4
31-34	Decreed	3.2 x 2 x 123	787.2
31-35	Decreed	6.4 x 2 x 123	1574.4
31-36	Decreed	9.6 x 2 x 123	2361.6
31-37	Decreed	6.4 x 2 x 123	1574.4
31-38	Decreed	0.8 x 2 x 123	196.8
31-52	Decreed	2.5 x 2 x 123	615
31-65	Decreed	3.0 x 2 x 123	738
31-104	Decreed	3.0 x 2 x 123	738
31-105	Decreed	1.6 x 2 x 123	393.6
31-147A	Decreed	4.0 x 2 x 123	984
31-159	Decreed	2.44 x 2 x 123	600.2
31-162	Decreed	1.0 x 2 x 123	246
31-163	Decreed	1.0 x 2 x 123	246
31-166	Decreed	1.72 x 2 x 123	423.1
31-168	Decreed	1.6 x 2 x 123	393.6
31-169	Decreed	1.6 x 2 x 123	393.6
31-184	Decreed	80.8 x 2 x 123	19876.8
31-185	Decreed	72.6 x 2 x 123	17859.6

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MLWU Surface Volumes p 2

31-186	75 x 2 x 123	18450
31-187	25 x 2 x 123	6150
31-188	1.6 x 2 x 123	393.6
31-232	1.6 x 2 x 123	393.6
31-237	2.4 x 2 x 123	590.4
31-263	2.68 x 2 x 123	659.3
31-363	6.4 x 2 x 123	1574.4

Total of Owsley Division Surface rights 78557.6 af

78557.6 / 17818 = 4.41 af/acre

Jackett Division

31-134	3.5 x 2 x 123	861
31-135	2.5 x 2 x 123	615
31-143	1.0 x 2 x 123	246
31-144	1.0 x 2 x 123	246
31-190	5.9 x 2 x 123	1451.4
31-192	3 x 2 x 123	738

Total of Jackett Division Surface rights 4157.4

41574 / 3107.3 = 1.34 af/acre

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MLWU Suf p3

Holley Division

31-134	1.7 x 2 x 123	418.2
31-345	0.8 x 2 x 123	196.8
31-354	0.8 x 2 x 123	196.8
31-355	0.8 x 2 x 123	196.8
31-360	3.0 x 2 x 123	738.0
31-361	2.4 x 2 x 123	590.4
31-10957	2.5 x 2 x 123	615.0
31-10958	2.7 x 2 x 123	664.2
31-10959	7.98 x 2 x 123	1963.1
31-10960	2.36 x 2 x 123	580.6
31-10961	6.18 x 2 x 123	1520.3
31-10962	1.94 x 2 x 123	477.2
	Total	8157.4

8157.4 / 2978 acres = 2.74 af/acre

Total for MLWU	afs	acres
Owsley division	78,557.6	17818.0
Jackett division	4,157.4	3107.3
Holley division	8,157.4	2978.0
	90,872.4	23,903.3

90,872.4 / 23,903.3 = 3.80

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Summary of MCWA Diversion Volumes - GW (recommended)

2/17/2001 B. Conton

31-327 31-328 31-329 31-330	Original Owsley GW rights	
	Condition 11 of T 5335 limits the above to 200 cfs during irrigation season. Proposed amendment to transfer: 5/1 through 11/1 = 185 days	
	200 x 1.9835 x 185 =	73,389.5
31-331	Holley 24 cfs	
	24 x 1.9835 x 185 = per Bandy	8,806.7
31-336B	Ind/Jackett	
	11.05 x 1.9835 x 185	4,054.8
31-337B	Merritt M. Owsley	
	17 x 1.9835 x 185	6,238.1
31-371	Holley	
	23 x 1.9835 x 185	8,439.8
31-2239	License	
	40 x 1.9835 x 185	14,677.9

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MLWU Volume-GW p 2

31-2265	license	
	64.4 x 1.9835 x 185	23,631.4
31-2289	license	
	160 acres x 3.5 a/a	560.0
31-2290	license	
	240 acres x 3.5 a/a	840.0
31-2297	license	
	340 acres x 3.5	1190.0
31-2310	license	
	290 acres x 3.5	1015.0
31-2317A	license	
	404 acres x 3.5	1414.0
31-2317B	license	
	95 acres x 3.5	332.5
31-2321	license	
	96 acres x 3.5	336.0
31-2341	license Volume per T 5335	5839.4
	(16 x 1.9835 x 184)	

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MLWU Volume-gw p3

31-2343 license. Volume per T 5335 5839.4
(16 × 1.9835 × 184)

31-2344 license. Volume per T 5335 5839.4
(16 × 1.9835 × 184)

31-2345 license. Volume per T 5335 5839.4
(16 × 1.9835 × 184)

31-7005 license. Volume per orig license 5986.0
note logical discrepancy
licensed period = 4/1 to 11/15 = 199 days
13.26 × 1.9835 × 199 = 5233.9 af.

Total of recommended GW volume = 174,269.3
(503.21 cfs limit for Transfer condition
9: 503.21 × 1.9835 × 185 = 184,651.7
13.26 × 1.9835 × 14 = 368.2
Total 185,019.9)

Volume of storage right 31-332 5,000.0
(avail for early pumping volume)

Beneficial use volumes (avail for early pump) 21,434.0
31-11430, 31-11432 Combined limitation

Total GW Volume 200,703.3
200,703.3/24,263 = 8.55 af/acre

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MLWH Volume-GW-# 4

Early pumping capacity @ 643.21:

643.21 X 1.9835 X 61 = 77,800 ac ft

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Contor, Bryce
From: Contor, Bryce
Sent: Wednesday, January 10, 2001 11:29 AM
To: Carlsen, Ernie
Cc: McHugh, Candice
Subject: MLWU GW rights.

If I use as a rule "include the entire section if T 5335 authorized use within the section," the shape looks somewhat reasonable and exceeds 25000 acres. Is this enough of a handle to use a shape?

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6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36
6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36

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Nov 0 8 2002

Post-it® Fax Note 7671 | Date 1/3/01 | # of pages ▶ 4
To Kent Foster | From B. Cantor
Co./Dept. | Co. IDWR
Phone # | Phone # 525 7161
Fax # 523 9518 | Fax #

UNITED STATES DEPARTMENT OF THE INTERIOR
Harold L. Ickes, Secretary
GEOLOGICAL SURVEY
W. C. Mendenhall, Director

Water-Supply Paper 818

GEOLOGY AND WATER RESOURCES
OF THE
MUD LAKE REGION, IDAHO
INCLUDING THE ISLAND PARK AREA

BY
HAROLD T. STEARNS, LESTER L. BRYAN,
AND LYNN CRANDALL

Prepared in cooperation with the
UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE,
IDAHO DEPARTMENT OF RECLAMATION, and IDAHO
BUREAU OF MINES AND GEOLOGY

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1939

For sale by the Superintendent of Documents, Washington, D. C. - - - - - - - Price 75 cents

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daily discharge, furnished by D. I. Gardner, watermaster, are as follows:

Average daily discharge of Holly Water Users wells, April 1931 to September 1932, in second-feet

1931:		1932:	
April	15	January	13.0
May	16.1	February	11.0
June	16.4	March	10.0
July	14.7	April	10.0
August	15.3	May	9.5
September	16.0	June	9.4
October	16.0	July	11.4
November	16.0	August	13.6
December	15.0	September	14.4

The Jackett flowing wells, consisting of four wells north of Mud Lake, are reported to have been drilled in 1931 to a depth of about 30 feet. They discharge from 4 to 6 second-feet into the outlet channel from Dead Line Lake and thence into Mud Lake.

The Owsley Canal Co.'s flowing wells, which discharge into Camas Creek just above West Hamer Bridge, first delivered water in December 1931. In December 1932 they consisted of a group of 10 wells averaging about 46 feet deep and most of them 10 inches in diameter, of which 8 were in operation. The following observations of their discharge are reported by the Mud Lake water master.

Average daily discharge of Owsley Canal Co.'s wells, December 1931 to September 1932, in second-feet

1931:		1932:	
December 13–31	23	May	34
1932:		June	35
January	23	July	36
February	18	August	35
March	12	September	37
April	13		

The low discharge from February to April 1932 was due to the wells being partly shut off by means of a brush dam in the outlet channel leading away from the group of wells.

Two wells (nos. 69 and 67) were drilled about 1919 near the shore of Market Lake for drainage, and both of them encountered artesian water. The log of well 69 is given on page 110. The artesian head in this well fluctuates from only a few inches to a foot above the land surface. Well 67 is 197 feet deep, and the artesian water was struck

at 123 feet. According to Dr. E. D. Jo
the well was last used the water rose in a
a water wagon. These wells are essentia
the artesian water apparently confined
beds.

GROUND-WATER R

RECHARGE FROM PRE

The relatively impervious basement r
are overlain to a large
products, and depos
permeable that they
rain and melted snow
the rain and snow th
atmosphere by capill
vegetation, but the w
zones reaches the wa
as a whole indicates t
Lake region only abo
zone of saturation.

RECHARGE FROM STREAMS IN T

All the streams that flow from the
Mountains lose water as soon as they re
part of the loss can be attributed to evap
wet ground bordering the streams or t
Some of the streams are diver
but much of the water s
the ground-water
irrigation is practi
computed for each s
and the estimated c
A comparison of th
Dubois and Cama
obtained at the D
but the depletion
the relation in pri
between Dubois
Lone Tree Reser
lack of complete r
it is not possible t

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
GROUND WATER BRANCH

[Idaho:

RECORDS OF WELLS IN WESTERN JEFFERSON COUNTY, IDAHO] 1953

By

J. T. BARRACLOUGH (author)

THIS REPORT HAS NOT BEEN EDITED FOR CONFORMANCE WITH U. S. GEOLOGICAL SURVEY EDITORIAL STYLE AND USE OF STRATIGRAPHIC AND GEOGRAPHIC NAMES

PREPARED IN COOPERATION WITH
THE IDAHO DEPARTMENT OF RECLAMATION,
MARK R. KULP, STATE RECLAMATION ENGINEER.

BOISE, IDAHO
~~APRIL~~ JUNE 1953

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7N 35E-25CA. NE¼SW¼ SEC. 25. OWSLEY CANAL COMPANY. GROUP OF 24 IRRIGATION WELLS; DRILLED BETWEEN 1931 AND 1938 BY COPE BROTHERS (EXCEPT ONE 12-INCH WELL BY WAGONER); DEPTHS OF 23 WELLS RANGE FROM 42 TO 65 FEET; ONE WELL IS 300 FEET DEEP; 6-INCH TO 16-INCH DIAMETER; TWO 125-HP ELECTRIC MOTORS AND TWO 36-INCH CENTRIFUGAL PUMPS. DISCHARGE: 1948, ABOUT 140 CFS (63,000 GPM); DRAWDOWN, ABOUT 5 FEET WHEN PUMPING ABOUT 95 CFS. WELLS DISCHARGE BY FLOW INTO COLLECTING CANAL, IN THE BOTTOM OF WHICH THE WELLS ARE LOCATED, AND THE WATER IS PUMPED INTO MAIN LATERAL CANAL. SITUATED ON ROLLING PLAIN. YIELD REPORTED ADEQUATE. PRINCIPAL AQUIFER, CREVICED BASALT; WATER UNDER LOW ARTESIAN PRESSURE. MEASURING POINT: LAND-SURFACE DATUM. WATER LEVEL: SEPT. 25, 1948, FLOWING INTO CANAL ABOUT 10 FEET BELOW LAND-SURFACE DATUM. FLOW FROM WELLS IS INDUCED BY PUMPS, WHICH KEEP THE WATER LEVEL IN THE CANAL, IN WHICH THE PUMPS ARE SITUATED, BELOW THE LEVEL OF THE ARTESIAN PRESSURE SURFACE OF THE AQUIFER.

*6N 32E-36AD1 (FORMERLY 178). SE¼NE¼ SEC. 36; 55 FEET N AND 204 FEET W OF E¼-COR, SEC. 36. U. S. ATOMIC ENERGY COMMISSION. OBSERVATION; DRILLED BY A. D. STOVER BEFORE 1921; CLEANED AND DEEPENED BY R. J. STRASSER AND SONS OCT. 20, 1950; DEPTH 1949, 292 FEET; 1950, 310 FEET; 8-INCH CAST-IRON PIPE TO 6 FEET, 4-INCH IRON CASING TO ABOUT 286 FEET; NO PUMP. SITUATED ON FLAT PLAIN. PRINCIPAL AQUIFER, BASALT AND SAND. MEASURING POINT: TOP OF IRON CASING AT NORTH SIDE; ALTITUDE. ABOUT 4,787.6 FEET; 2.1 FEET ABOVE LAND-SURFACE DATUM. REFERENCE MARK: TOP OF USGS BRASS PLATE SET IN CONCRETE, 127 FEET SOUTH AND 5 FEET WEST OF WELL; ALTITUDE 4,786.8 FEET. WATER LEVEL: SEPT. 20, 1951, 227.1 (4,565.5).

6N 33E-2AA1. NE¼NE¼ SEC. 2. STEWART BROTHERS. DOMESTIC AND STOCK; DRILLED IN FALL 1946; DEPTH ABOUT 210 FEET; 6-INCH IRON CASING TO 95 FEET; 1½-HP ELECTRIC MOTOR AND FORCE PUMP. SITUATED ON FLAT PLAIN. YIELD REPORTED ADEQUATE. WATER REPORTED MODERATELY SOFT. PRINCIPAL AQUIFER, BASALT. MEASURING POINT: LAND-SURFACE DATUM AT WELL SITE. WATER LEVEL: 1949, ABOUT 200.

*6N 33E-2BA1. NE¼NW¼ SEC. 2; 1,430 FEET E AND 180 FEET S OF NW COR. SEC. 2. STEWART BROTHERS. STOCK; DRILLED BY R. P. COPE BEFORE 1922; DEPTH ABOUT 245 FEET; 2-HP ELECTRIC MOTOR AND FORCE PUMP. SITUATED ON FLAT PLAIN. YIELD REPORTED ADEQUATE. WATER REPORTED OF GOOD QUALITY. LOG OBTAINED FROM DRILLER.

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
TOP SOIL	40	40
LAYERS OF CLAY AND SAND	100	140
HARD ROCK WITH SAND LAYERS	105	245
STRUCK SOFT WATER AT 245 FEET.		

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Theoretical Calculation to Confirm 1953 Report of Dowsley Capacity

Bruce A. Coulton 1/3/2001

$$GPM = \frac{\text{Water HP} \times 3960}{TDH}$$

$$\text{Water HP} = \frac{GPM \times TDH}{3960}$$

$$= \frac{63{,}000 \times (54\text{ ft lift} + 5\text{ ft friction (assumed)})}{3960}$$

Water HP = 159 hp

$$\text{Motor HP} = \frac{\text{Water HP}}{\text{efficiency}} = \frac{159}{.7\text{ (assumed)}} = 228$$

This corresponds well w/ report of 2 125 hp electric motors.

State of Idaho
DEPARTMENT OF WATER RESOURCES
900 N. Skyline Dr., Suite A, Idaho Falls, Idaho 83402-1718 - (208) 525-7161- Fax (208) 525-7177

EASTERN REGION

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

MEMORANDUM

To: Mud Lake Water Users
FAX 208 663-44369
Fr: Bryce Contor
Date: 12/27/2000

Bryce J Contor

Re: Cancelled Permit

It appears that permit 17763 was decreed to Independent Water Users of Mud Lake, Inc, in the Bauerly decree. It was numbered 31-00337 by the department, from Bauerly.

This permit was cancelled by the department, but nevertheless was recognized in transfer 2303 with the original priority date of 12/15/1932. The right was split, with 31-00337A assigned to Independent Water Users and 31-00337B assigned to Jackett Canal. Transfer 5335 combined all the Jackett rights (including 31-00337B) into the Mud Lake Water Users rights. This later transfer also recognized the original permit date for this right.

Enclosed are printouts of these two water rights.

Also enclosed is a Notice of Change of Ownership to change the name of the water rights on transfer 5335 from "Owsley" to "Mud Lake Water Users." We have the necessary documentation on file, all we need is your signature and to fill in the name of Mud Lake Water Users exactly as you wish it to appear on the water rights.

Please call me if you have questions.

Post-it® Fax Note 7671	Date 12/27	# of pages ▶ 6
To MLWUA	From B. Contor	
Co./Dept.	Co. IDWR	
Phone #	Phone # 525 7161	
Fax # 208 663 4369	Fax #	

SCANNED
NOV 11 6 2002

IDAHO DEPARTMENT OF WATER RESOURCES
Water Right Report

WATER RIGHT NO. 31-337A

Owner Type	Name and Address
Current Owner	INDEPENDENT WATER USERS OF MUD LAKE INC

Priority Date: 12/15/1932
Basis: Decreed
Status: Valid

Source	Tributary to
GROUND WATER	

Beneficial Use	From	To	Diversion Rate	Volume	Subuse Code
IRRIGATION	4/01	11/01	33 CFS		
Total Diversion			33 CFS		

Location of Point(s) of Diversion:

GROUND WATER SWSW Sec. 13 Township 07N Range 35E JEFFERSON County

IRRIGATION Use:
Acre Limit: 4945

Place(s) of use:

Place of Use Legal Description: IRRIGATION JEFFERSON County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
06N	33E	1		NENE	40		NWNE	40		SWNE	40		SENE	40
				NENW	40		NWNW	40		SWNW	40		SENW	40
				NESW	40		NWSW	40		SWSW	40		SESW	40
		11		NENE	20		NWNE	7		SENE	3			
		12		NENW	40		NWNW	40		SWNW	25		SENW	40
	34E	2		NESW	40		NWSW	40		SWSW	40		SESW	40
				NESE	40		NWSE	40		SWSE	40		SESE	40
		3		SWNE	40		SENE	40						
		6		NENW	40		NWNW	39		SWNW	39		SENW	40
		11		NENE	40		NWNE	40		SWNE	40		SENE	40
				NENW	40		NWNW	40		SWNW	40		SENW	40
		12		NENE	40		NWNE	40		SWNE	40		SENE	40
				NENW	40		NWNW	40		SWNW	40		SENW	40
				NESW	40		NWSW	40		SWSW	40		SESW	40
				NESE	40		NWSE	40		SWSE	40		SESE	40
		13		NENE	40		NWNE	40		SWNE	40		SENE	40
				NENW	40		NWNW	40		SWNW	40		SENW	40
				NWSW	40		SWSW	40						
		14		NENW	40		NWNW	40		SWNW	40		SENW	40
		15		NENE	40		NWNE	40		SWNE	40		SENE	40
	35E	4		NENE	41		NWNE	41		SWNE	40		SENE	40
				NENW	5		NWNW	5		SWNW	40		SENW	40
		5		NWSW	25		SWSW	40						
		6		NESE	10		SESE	40						
		7		NENE	40		NWNE	40		SWNE	40		SENE	40
				NENW	40		NWNW	35		SWNW	35		SENW	40
				NESW	40		NWSW	35		SWSW	35		SESW	40
				NESE	40		NWSE	40		SWSE	40		SESE	40
		9		NENW	40		NWNW	40		SWNW	40		SENW	40

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NOV 11 8 2002

07N	33E	36	NENE	40	NWNE	40	SWNE	40	SENE	40
			NENW	40	SENW	40				
			NESW	40	NWSW	40	SWSW	40	SESW	40
			NESE	40	NWSE	40	SWSE	40	SESE	40
	34E	1	SESW	20						
			SWSE	5						
		31	NENW	40	NWNW	40	SWNW	40	SENW	40
			NESW	40	NWSW	40	SWSW	40	SESW	40

Total Acres: 4945

Remarks:

1. General THIS RT. WHEN COMBINED WITH 31-0336A SHALL NOT EXCEED 61.2 CFS. AC. IRR.=4943.97 TRANS. 2303.

Dates:

Licensed Date:
Decreed Date: 10/14/1940
Enlargement Use Priority Date:
Enlargement Statute Priority Date:
Application Received Date:
Protest Deadline Date:
Number of Protests: 0

Other Information:

Receipt Number(s):
State or Federal:
Owner Name Connector:
Water District Number: 31
Generic Max Rate per Acre:
Generic Max Volume per Acre:
Civil Case Number:
Old Case Number:
Decree Plantiff:
Decree Defendant:
Swan Falls Trust or Nontrust:
Swan Falls Dismissed:
DLE Act Number:
Cary Act Number:
Mitigation Plan: False

SCANNED NOV 0 8 2002
SCANNED NOV 0 8 2002

IDAHO DEPARTMENT OF WATER RESOURCES
Water Right Report

WATER RIGHT NO. 31-337B

Owner Type	Name and Address
Current Owner	OWSLEY CANAL CO
Original Owner	INDEPENDENT WATER USERS OF MUD LAKE INC

Priority Date: 12/15/1932
Basis: Decreed
Status: Valid

Source: GROUND WATER
Tributary to:

Beneficial Use	From	To	Diversion Rate	Volume	Subuse Code
IRRIGATION	4/15	10/15	17 CFS		
Total Diversion			17 CFS		

Location of Point(s) of Diversion:

GROUND WATER	SWNE	Sec. 13	Township 07N	Range 34E	JEFFERSON County
GROUND WATER	SESE	Sec. 13	Township 07N	Range 34E	JEFFERSON County
GROUND WATER	NENE	Sec. 23	Township 07N	Range 34E	JEFFERSON County
GROUND WATER	NENE	Sec. 24	Township 07N	Range 34E	JEFFERSON County
GROUND WATER	NWNE	Sec. 24	Township 07N	Range 34E	JEFFERSON County
GROUND WATER	NWNW	Sec. 24	Township 07N	Range 34E	JEFFERSON County
GROUND WATER	SWSW	Sec. 13	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	SESE	Sec. 14	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	SESW Lt 4	Sec. 18	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	NWNW Lt 1	Sec. 19	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	SWNW	Sec. 19	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	SENW	Sec. 19	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	NESE	Sec. 22	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	NWSW	Sec. 23	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	SWSW	Sec. 23	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	SWSW	Sec. 25	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	SESW	Sec. 25	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	NWSE	Sec. 25	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	SESE	Sec. 26	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	NWNE	Sec. 27	Township 07N	Range 35E	JEFFERSON County
GROUND WATER	NENW	Sec. 36	Township 07N	Range 35E	JEFFERSON County

IRRIGATION Use:
Acre Limit: 24261.3

Place(s) of use:

Place of Use Legal Description: IRRIGATION JEFFERSON County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
06N	34E	3		NENW	26		NWNW	35		SWNW	40		SENW	40
				NESW	40		NWSW	40		SWSW	40		SESW	40
				NESE	40		NWSE	40		SWSE	40		SESE	40
		4		NENE	40		NWNE	40		SWNE	40		SENE	40
				NENW	40		NWNW	40		SWNW	40		SENW	40
				NESW	40		NWSW	40		SWSW	40		SESW	40
				NESE	40		NWSE	40		SWSE	40		SESE	40
		5		NENE	40		NWNE	40		SWNE	40		SENE	40

(Balance of land list not faxed)

SCANNED
NOV 0 8 2002

Form 42-248/42-1409(6) July, 2000

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
NOTICE OF CHANGE IN WATER RIGHT OWNERSHIP

Please print or type. Attach pages with additional information. Instructions are included at the end of this form. Incomplete forms will be returned.

1. Please list the water right number(s) and/or adjudication claim number(s) (if any) for each water right to be changed. List just the adjudication claim number if there is no corresponding water right record on file with the department. Indicate, by checking in the space provided, if the change in ownership is limited to a portion of a water right in which case division of the existing water right or adjudication claim record will be required.

Water Right No(s).	Adjudication Claim No(s).	Split	Water Right No(s).	Adjudication Claim No(s).	Split
All water rights listed on transfer 5335					

2. The following **REQUIRED** information must be submitted with this form:

N/A ~~A. The appropriate FILING FEE. See instructions for fee amounts.~~

On file w/ DOWR - (B Contor)

N/A B. A copy of the most recent **DEED, TITLE POLICY, CONTRACT OF SALE** or other legal document indicating your ownership of the property and water right(s) or claim(s) in question, **WITH ATTACHED LEGAL DESCRIPTION.**

N/A C. ~~Either of the following (if necessary to~~ clarify division of water rights or other complex property descriptions): ~~PLAT OF PROPERTY~~ or SURVEY MAP clearly showing the location of the point(s) of diversion and place of use of your ~~water right(s) and~~/or adjudication claim(s) (these are usually attached to your deed or on file with the county).

OR

~~If your water~~ right(s) and/or adjudication claim(s) are for ten or more acres of irrigation, you must submit a USDA Farm ~~Service Agency~~ **AERIAL PHOTO** with the irrigated acres outlined and point(s) of diversion clearly marked. The ~~AERIAL PHOTO~~ should be submitted in place of the PLAT OF PROPERTY or SURVEY MAP.

3. Name and Address of Former Owner/Claimant(s) Owsley Canal Co

4. New Owner/Claimant(s) _____

Name Connector (Check one): [ ] and, [ ] or, [ ] and/or

New Mailing Address _____

City, State and ZIP Code _____

New Telephone Number ( ) _____

5. ~~Date you acquired the property~~ _____

N/A

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6. If the change in ownership affects the entire water right for each water right or adjudication claim number listed in item 1, THEN SKIP THIS ITEM AND GO TO ITEM 7. If the change in ownership divides the water right(s) among multiple owners, you must describe, in detail, your portion of each water right after the change. Fill in the appropriate spaces in the box(es) below to describe your water right(s) after the change (one water right per box, you may copy this page as necessary). If your quantity of water is greater than a proportionate split, you must attach documentation to show justification for a larger amount. If you are not sure how to identify your portion of the original water right or adjudication claim records, please contact the nearest IDWR office for assistance.

DESCRIPTION OF YOUR PORTION OF WATER RIGHT
(If the right(s) will not be split, skip this area and proceed to item 7)

Water Right and/or Adjudication Claim Number _____

Water Use	Diversion Rate or Volume (cubic feet per second or acre-feet per annum)	Description (acres, number and type of stock, homes, etc)
Irrigation		
Stock		
Domestic		
Other _____		
Total		

DESCRIPTION OF YOUR PORTION OF WATER RIGHT
(If the right(s) will not be split, skip this area and proceed to item 7)

Water Right and/or Adjudication Claim Number _____

Water Use	Diversion Rate or Volume (cubic feet per second or acre-feet per annum)	Description (acres, number and type of stock, homes, etc)
Irrigation		
Stock		
Domestic		
Other _____		
Total		

7. Signature of New Owner(s) or Claimant(s) _____
(include title if applicable)

_____

For Snake River Basin Adjudication Claims: Please attach a Notice of Appearance completed by your attorney, if you wish IDWR to correspond with him/her for all matters related to your claims.

For Office Use Only
Received by _____ Date _____ Fee _____
Receipted by _____ Date _____ Receipt No. _____
Processed by _____ AJ Date _____ WR _____ Date _____

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Carlsen, Ernie

From: Contor, Bryce
Sent: Wednesday, December 27, 2000 3:58 PM
To: McHugh, Candice; Baxter, Garrick
Cc: Carlsen, Ernie; Fritschle, Carter; Music, Vicky
Subject: POU for Mud Lake Water Users Inc.

The GW rights for Mud Lake Water Users are applied to the entire service area, by transfer 5335. I propose using a POU remark patterned after the Reno Ditch remark:

PLACE OF USE WITHIN THE BOUNDARY OF MUD LAKE WATER USERS, INC. TOTAL IRRIGATED ACRES 24261.3

Individual GW rights will also have acreage limitations or combined use limitations per transfer 5335.

The SW rights are more of a problem, as the merger occurred after1987, and a transfer was never filed to combine the service areas of the original three entities. After talking to Carter, I've come up with three remarks to attach to these SW recommendations, depending on the original owner of the WR:

PLACE OF USE WITHIN THE HISTORICAL BOUNDARY OF HOLLEY WATER USERS, AS IT EXISTED ON NOVEMBER 19, 1987, WITHIN THE BOUNDARY OF MUD LAKE WATER USERS, INC. TOTAL IRRIGATED ACRES 2978.

PLACE OF USE WITHIN THE HISTORICAL BOUNDARY OF THE JACKETT CANAL COMPANY AS IT EXISTED ON NOVEMBER 19, 1987, WITHIN THE BOUNDARY OF MUD LAKE WATER USERS, INC. TOTAL IRRIGATED ACRES 3107.3.

PLACE OF USE WITHIN THE HISTORICAL BOUNDARY OF OWSLEY CANAL COMPANY, AS IT EXISTED ON NOVEMBER 19, 1987, WITHIN THE BOUNDARY OF MUD LAKE WATER USERS, INC. TOTAL IRRIGATED ACRES 17818.

Various of the SW rights will have individual and perhaps combined use limitations, as well.

If you add up the acres of the three parent companies, you will find that they are 358 acres less than the acres approved in transfer 5335. However, I think these acreage limitations are legitimate; they came from the merger documents approved by the shareholders of all three companies, and they match the GIS adequately. There are a number of complex combined use limitations on transfer 5335 and it may be that even though its land list approves more acres, the operation of the limitations will serve to limit the GW to the same acreage as the SW.

Could one of you please edit these remarks & send 'em back post-haste?

Thanks.

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Contor, Bryce
From: Contor, Bryce
Sent: Thursday, December 28, 2000 8:18 AM
To: Carlsen, Ernie
Cc: Baxter, Garrick; McHugh, Candice
Subject: remark

How 'bout:

PLACE OF USE WITHIN THE OWSLEY SUBDIVISION, WITHIN THE BOUNDARY OF MUD LAKE WATER USERS, INC. TOTAL IRRIGATED ACRES 17818.

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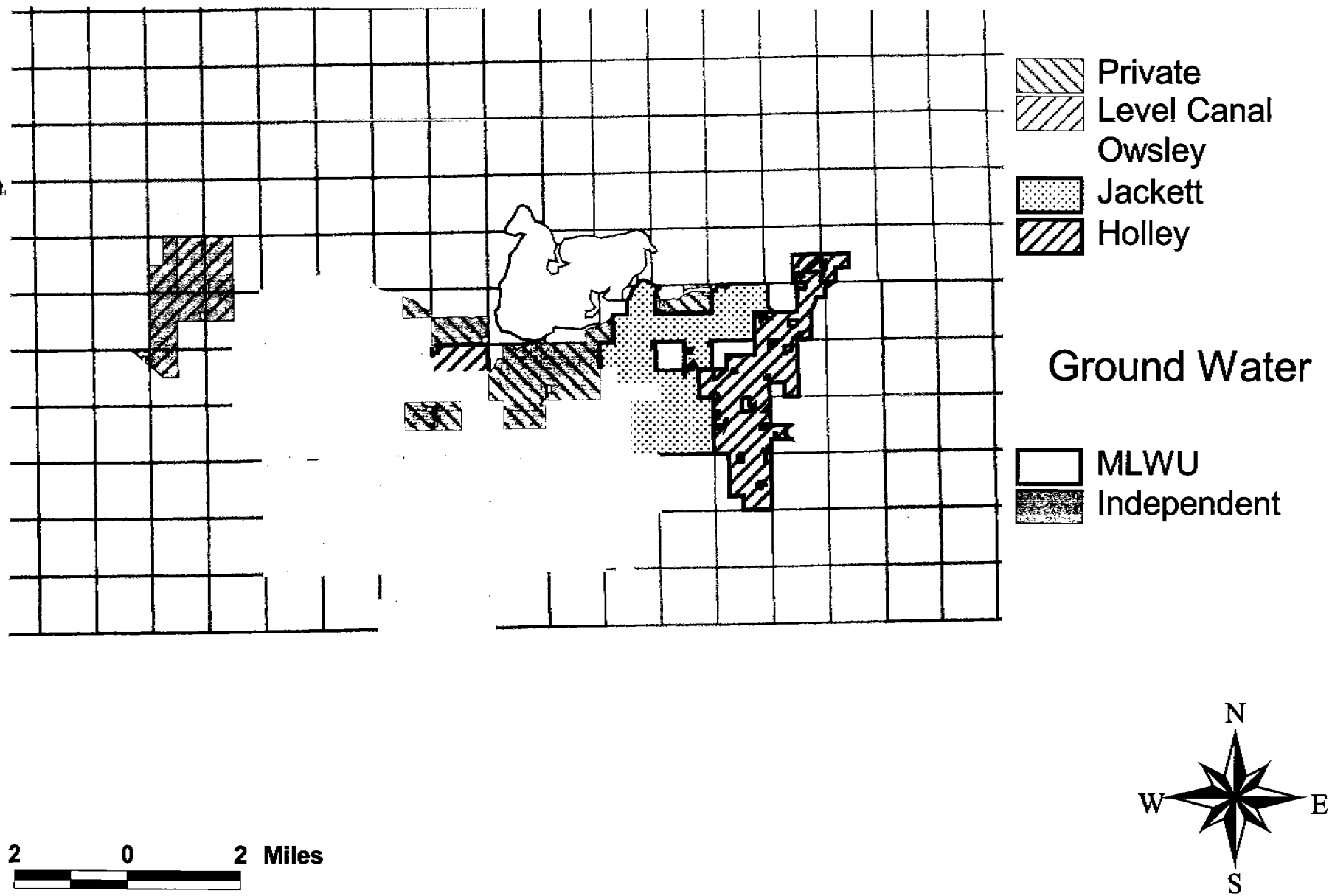
Surface And Ground Water Rights Delivered Out of Mud Lake



B. Contor 12/2000

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Thanks.

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MEMORANDUM

To: Glenn Saxton
Fr: Ernie Carlsen
Bryce Contor

Date: 12/07/2000

Re: Transfer 5335

Glenn this memorandum is a request to amend transfer 5335 by addressing omissions, errors and administrative changes to certain elements of the water rights. This request is based on the adjudication review of the rights identified in Transfer 5335 and our findings concerning Mud Lake storage and delivery issues.

Changes Requested:

1. Right 31-327

   Transferred priority date 00/00/0000

   Requested priority date 11/16/1931

   Basis of request: This right is based upon the Bauerly decree of 1940, which confirmed several permits to several users. Permit 17611 is the basis for decreed right 31-327. That permit was later cancelled by the department, but in a 1980's transfer proceeding with Independent Water Users, the department set the precedent of honoring cancelled or relinquished permits that had been confirmed by Bauerly. The requested priority date is the date of issuance of permit 17611.

2. Right 31-328

   Transferred priority date 00/00/0000

   Requested priority date 10/14/1931

   Basis of request: This right is also based on Bauerly (permit 17612), but the permit was relinquished rather than cancelled. The original permit application was returned to the applicant due to errors in filing. The requested priority date is the date of filing of the corrected application.

   Transferred Irrigation diversion rate 110 cfs

   Requested diversion rate 100 cfs.

   Basis of request: Bauerly decreed 100 cfs.

3. Right 31-329

   Transferred priority date 00/00/0000

   Requested priority date 1/8/1932

   Basis of request: This right was decreed as a permit by Bauerly, but was later issued as license

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31-2252. The priority date is from the license.

4. Right 31-330

   Transferred priority date 00/00/0000

   Requested priority date 6/26/1936

   Basis of request: This right was decreed as a permit by Bauerly, but was later issued as license 31-2259. The priority date is from the license.

5. All rights

   Transferred season of use for irrigation 4/15 to 10/15
   Transferred season of use for diversion to storage 10/16 to 4/14

   Requested season of use for irrigation 5/1 to 11/1
   Requested season of use for diversion to storage 5/1 to 11/1.

   Basis of request: The Bauerly decree specifies the irrigation season as 5/1 to 11/1 and this has been confirmed by historical practice. The decree also states that artesian flow from wells occurring before the irrigation season is to accumulate in the lake as storage for holders of surface water rights. Historical practice has followed the decree in this respect. Allowing use to begin on April 15 changes the ownership of 15 days' flow from the artesian wells at the historically most-active period. Through a long process of research, review, and consultation with the watermaster we are proposing to retain the 5/1 to 11/1 season for all the GW rights delivered via Mud Lake.

We have just a few weeks before the Preliminary Director's Report is scheduled for mailing in Basin 31. If additional information is needed or there are questions concerning the items listed above please contact either Ernie or Bryce.

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Mud Lake Allotments and Disbursements
Month: MAY

199 3

Mud Lake Decreed Rights				1 -15					15 - 31			
	April Draft	Right Amount	Season Allot	Begin Balance	Draft	Loss	Total Use	End Balance	Draft	Loss	Total Use	End Balance
Shuldberg, K.	0	1.70	418	418	0	13	13	405	74	12	86	319
Holly Water Users	0	0	0	0	0	0	0	0	0	0	0	0
Jackett Canal Co.	0	4.50	1,107	1,107	18	34	52	1055	616	31	647	408
Owsley Canal Co.	0	73.26	18022	18022	900	549	1449	16,573	7,372	491	7863	8710
Level Canal Co.	0	1.60	394	394	0	12	12	382	371	11	382	0
Dobson Ranch	0	6.43	1582	1582	0	48	48	1,534	88	45	133	1,401
Potter, Joe	0	.80	197	197	0	6	6	191	0	6	6	185
Burtenshaw Bros.	0	0	0	0	0	0	0	0	0	0	0	0
Allotment Totals	0	88.29	21,720	21720	918	662	1580	20140	8521	596	9117	11,023

Mud Lake Gauge Beginning of Period	6.60	7.41
Mud Lake Content Beginning of Period	29,200	34,100
Mud Lake Gauge End of Period	7.41	7.05
Mud Lake Content End of Period	34,100	31,900
Total Depletion in Period	(4,900)	2,200
Camas Creek Inflow	4,800	7,884
Total Inflow To Lake For Period Well	2,250	0
Draft For Period	918	8884
Loss For Period	1,232	1,200
Loss Plus Draft For Period	2,150	10,084
Evaporation (G.H. Factor (.20) (.25)	720	900
Unaccounted For Loss	512	300
Lake Contents Less Well Storage	13,730	12,497

Date 5/8/93 Sig. [signature]
Claim Mud Lake Storage
Doc Source Watermaster
WD 31

Well Water	Beginning Balance	Flow	Loss	Draft	Total Use	End Balance	Flow	Loss	Draft	Total Use	End Balance
Owsley Canal Co. North Lake	6961	742	212	0	212	7491	0	222	0	222	7269
Owsley Canal Co. Bybees	6266	942	191	0	191	7017	0	208	0	208	6809
Burtenshaw-Holly Spillway	0	0	0	0	0	0	0	0	126	126	(-126)
Jackett Canal Co.	2567	314	78	0	78	2803	0	83	0	83	2720
Dobson Ranch (Well)	0	0	0	0	0	0	0	0	0	0	0
Ind. Water Users Assoc.	--------	(252)	----	-----	-------	-------	0	0	0	0	0
Level Canal Co. .5630	1631	142	50	0	50	1723	0	51	153	204	1519
Dobson Ranch .1931	559	49	17	0	17	591	0	18	0	18	573
Shuldberg, K. .0459	133	11	4	0	4	140	0	4	0	4	136
Potter, Joe .0290	84	7	3	0	3	88	0	3	0	3	85
Burtenshaw Bros .1690	489	43	15	0	15	517	0	15	84	99	418
Well Water Totals	18690	2250	570	0	570	20370	0	604	363	967	19403

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Mud Lake Allotments and Disbursements
Month: JUNE

199 3

Mud Lake Decreed Rights				1 -15					15 - 31			
	April Draft	Right Amount	Season Allot	Begin Balance	Draft	Loss	Total Use	End Balance	Draft	Loss	Total Use	End Balance
Shuldberg, K.	0	1.70	418	319	42	22	64	255	0	54	54	201
Holly Water Users	0	0	0	0	0	0	0	0	0	0	0	0
Jackett Canal Co.	0	4.50	1,107	408	380	28	408	0	0	0	0	0
Owsley Canal Co.	0	73.26	18022	8710	2070	593	2663	6,047	4410	1280	5690	357
Level Canal Co.	0	1.60	394	0	0	0	0	0	0	0	0	0
Dobson Ranch	0	6.43	1582	1401	0	95	95	1306	32	277	309	997
Potter, Joe	0	.80	197	185	0	13	13	172	0	36	36	136
Burtenshaw Bros.	0	0	0	0	0	0	0	0	0	0	0	0
Allotment Totals	0	88.29	21,720	11,023	2492	751	3243	7,780	4442	1647	6089	1691

	1 -15	15 - 31
Mud Lake Gauge Beginning of Period	7.05	7.90
Mud Lake Content Beginning of Period	31,900	37,300
Mud Lake Gauge End of Period	7.90	6.70
Mud Lake Content End of Period	37,300	29,800
Total Depletion in Period	(5,400)	7,500
Camas Creek Inflow	10,100	3,200
Total Inflow To Lake For Period (WELL)	350	188
Draft For Period	2,978	5,442
Loss For Period	2,072	5,446
Loss Plus Draft For Period	5,050	10,888
Evaporation (G.H. Factor ( ) (.35)	1,025	1,260
Unaccounted For Loss	1,047	4,186
Lake Contents Less Well Storage	19,354	16,465

Well Water	Beginning Balance	Flow	Loss	Draft	Total Use	End Balance	Flow	Loss	Draft	Total Use	End Balance
Owsley Canal Co. North Lake	7269	0	495	0	495	6,774	0	1434	0	1434	5340
Owsley Canal Co. Bybees	6809	0	464	0	464	6345	0	1343	0	1343	5002
Burtenshaw-Holly Spillway	(-126)	350	(8)	38	30	194	188	41	98	139	243
Jackett Canal Co.	2720	0	185	282	467	2253	0	477	218	695	1,558
Dobson Ranch (Well)	0	0	0	0	0	0	0	0	0	0	0
Ind. Water Users Assoc.	----0--	0	----	-----	-------	-------	0	0	0	0	0
Level Canal Co. .5630	1519	0	103	138	241	1278	0	270	658	928	350
Dobson Ranch .1931	573	0	39	0	39	534	0	113	0	113	421
Shuldberg, K. .0459	136	0	9	0	9	127	0	27	0	27	100
Potter, Joe .0290	85	0	6	0	6	79	0	17	0	17	62
Burtenshaw Bros .1690	418	0	28	28	56	362	0	77	26	103	259
Well Water Totals	19,403	350	1,321	486	1807	17,946	188	3799	1,000	4799	13335

Date 5/8/00 Sig. S Conton
Claim Mud Lake Storage
Doc Source Watermaster
WD 31

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Fin[illegible] A[illegible]ation

Mud Lake Allotments and Disbursements
Month: July

199 3

Mud Lake Decreed Rights				1 -15					15 - 31			
	April Draft	Right Amount	Season Allot	Begin Balance	Draft	Loss	Total Use	End Balance	Draft	Loss	Total Use	End Balance
Shuldberg, K.	0	1.70	418	201	92	27	119	300 + 82	56	33	89	293
Holly Water Users	0	0	0	0	0	0	0	0	0	0	0	0
Jackett Canal Co.	0	8.00	1,968	861	744	117	861	0	0	0	0	0
Owsley Canal Co.	0	91.26	22,450	4785	4,135	650	4785	0	0	0	0	0
Level Canal Co.	0	24.00	5,904	5510	794	748	1542	300 - 3968	318	322	640	3028
Dobson Ranch	0	7.80	1918	1,333	718	181	899	434	64	38	102	332
Potter, Joe	0	1.00	246	185	58	25	83	102	4	9	13	89
Burtenshaw Bros.	0	0	0	0	0	0	0	0	0	0	0	0
Allotment Totals	0	133.76	32,904	12875	6541	1748	8289	4586	442	402	844	3742

	1 -15	15 - 31
Mud Lake Gauge Beginning of Period	6.70	4.75
Mud Lake Content Beginning of Period	29,800	19 300
Mud Lake Gauge End of Period	4.75	5.25
Mud Lake Content End of Period	19,300	21,800
Total Depletion in Period	10,500	(2500)
Camas Creek Inflow	200	0
Total Inflow To Lake For Period Well	5,056	8956
Draft For Period	12,198	5096
Loss For Period	3558	1,360
Loss Plus Draft For Period	15,756	6,456
Evaporation (G.H. Factor (.30) ( )	840	600
Unaccounted For Loss	2,718	760
Lake Contents Less Well Storage	8,376	7532

Date 5/8/00 Sig. B. Contor
Claim Mud Lake Storage
Doc Source Watermaster WD 31

Well Water	Beginning Balance	Flow	Loss	Draft	Total Use	End Balance	Flow	Loss	Draft	Total Use	End Balance
Owsley Canal Co. North Lake	5340	1834	725	4973	5698	1476	2820	129	0	129	4167
Owsley Canal Co. Bybees	5002	2646	679	0	679	6969	4626	611	3224	3835	7760
Burtenshaw-Holly Spillway	243	234	33	130	163	314	250	28	66	94	470
Jackett Canal Co.	1558	342	211	364	575	1325	1260	116	1244	1360	1,225
Dobson Ranch (Well)	0	0	0	0	0	0	0	0	0	0	0
Ind. Water Users Assoc.	--------	0	----	-----	-------	-------	0	0	0	0	0
Level Canal Co. .5630	350	0	48	0	48	(302) - 0	0	0	0	0	0
Dobson Ranch .1931	421	0	57	0	57	364	0	32	0	32	332
Shuldberg, K. .0459	100	0	14	0	14	86	0	8	0	8	78
Potter, Joe .0290	62	0	8	0	8	54	0	5	0	5	49
Burtenshaw Bros .1690	259	0	35	190	225	34 [302]	0	29	120	149	187
Well Water Totals	13335	5056	1810	5657	7467	10924	8956	958	4654	5612	14268

Level transfer 302 to Burtenshaw

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Final Re-Allocation

Mud Lake Allotments and Disburse
Month: October

199 3

Mud Lake Decreed Rights				1 -15					15 - 31			
	April Draft	Right Amount	Season Allot	Begin Balance	Draft	Loss	Total Use	End Balance	Draft	Loss	Total Use	End Balance
Shuldberg, K.	0	1.70	418	98	0	(1)	(1)	99	0	13	13	86
Holly Water Users	0	0	0	0	0	0	0	0	0	0	0	0
Jackett Canal Co.	0	8.00	1,968	0	0	0	0	0	0	0	0	0
Owsley Canal Co.	0	91.26	22,450	0	0	0	0	0	0	0	0	0
Level Canal Co.	0	24.00	5,904	919	824	(4)	820	99	0	13	13	86
Dobson Ranch	0	7.80	1,918	0	0	0	0	0	0	0	0	0
Potter, Joe	0	1.00	246	49	0	0	0	49	42	7	49	0
Burtenshaw Bros.	0	0	0	0	0	0	0	0	0	0	0	0
Allotment Totals	0	133.76	32,904	1066	824	(5)	821	247	42	33	75	172
Mud Lake Gauge Beginning of Period				2.80					3.22			
Mud Lake Content Beginning of Period				10,900					12,500			
Mud Lake Gauge End of Period				3.22					2.95			
Mud Lake Content End of Period				12,500					11,500			
Total Depletion in Period				1,600					1,000			
Camas Creek Inflow				0					0			
Total Inflow To Lake For Period				4964					708			
Draft For Period				3396					546			
Loss For Period				(32)					1162			
Loss Plus Draft For Period				3364					1708			
Evaporation (G.H. Factor (.05) (.15)				120					360			
Unaccounted For Loss				(83)					802			
Lake Contents Less Well Storage				4037					3962			

Date 5/8/00 Sig. D. Carter
Claim Mud Lake Storage
Doc Source Watermaster
WL 31

Well Water	Beginning Balance	Flow	Loss	Draft	Total Use	End Balance	Flow	Loss	Draft	Total Use	End Balance
Owsley Canal Co. North Lake	0	0	0	0	0	0	0	0	0	0	0
Owsley Canal Co. Bybees	4736	3440	(21)	2160	2139	6037	424	805	492	1297	5164
Burtenshaw-Holly Spillway	398	212	(2)	16	14	596	0	79	0	79	517
Jackett Canal Co.	955	700	(4)	334	330	1325	72	177	0	177	1,220
Dobson Ranch (Well)	0	0	0	0	0	0	0	0	0	0	0
Ind. Water Users Assoc.	--------	(612)	----	-----	-------	-------	(212)	—	—	—	—
Level Canal Co. .5630	0	345	0	0	0	345	119	46	0	46	418
Dobson Ranch .1931	(27)	118	0	0	0	91	41	12	8	20	112
Shuldberg, K. .0459	43	28	0	0	0	71	10	10	0	10	71
Potter, Joe .0290	28	18	0	0	0	46	6	6	4	10	42
Burtenshaw Bros .1690	(99)	103	0	62	62	(48)	36	(6)	0	(6)	(6)
Well Water Totals	6044	4964	(27)	2572	2545	8463	708	1129	504	1633	7538

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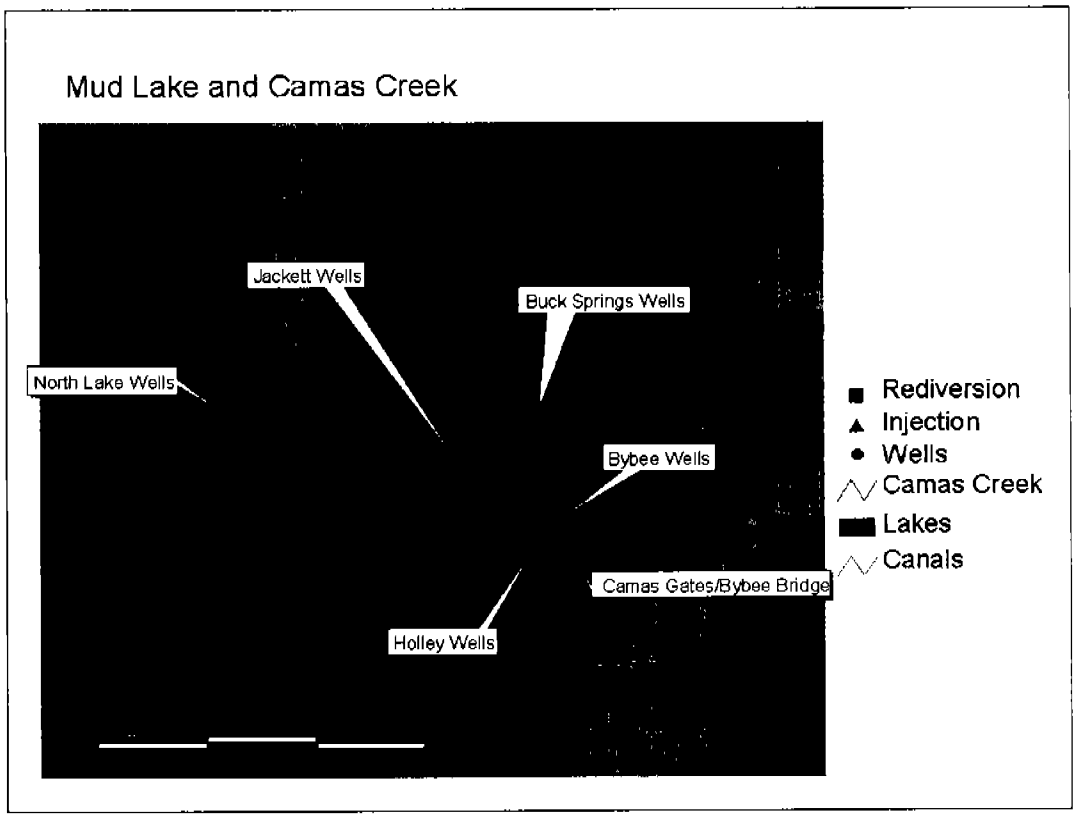
Brief Description of Water Distribution from Mud Lake

November 20, 2000
Bryce Contor

I. DESCRIPTION OF PHYSICAL SYSTEM



Water is supplied to Mud Lake from Camas Creek, which flows from the northeast, and a number of wells. The terrain is very flat, and the water level in the lower reaches of Camas Creek is governed by lake water level rather than Camas Creek flows. Water is rediverted from the lake and the Creek at several points. It is lifted by pump into canals for distribution, or pumped directly into pipelines for sprinkler systems.

At the location "Camas Gates/Bybee Bridge" on the map are a number of components of the system. Proceeding upstream, these are:

1. Point of injection for Holley Wells. A gate on the Holley Canal can be opened to allow water from the Holley wells to enter Camas Creek.

2. Flume for Holley canal. This carries Holley Well water across Camas Creek, south to places of use.

3. Holley Camas Creek diversion/rediversion. This pump lifts surface water from Camas Creek, or re-lifts well water that has been injected into Camas Creek from the Bybee Wells, into the

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Holley Canal.

4. Bybee Bridge. Where the county road crosses Camas Creek, the watermaster maintains a rated measurement station.

5. Bybee Wells point of injection.

6. Camas Creek screw gates. These gates can be closed to prevent lake water from running back upstream into Camas Creek and the interconnected lakes and ponds.

7. Camas Creek pump. This pump can lift small (approximately 10 cfs) Camas Creek flows over the screw gates to allow their use even when the gates are closed.

These features all exist within a distance of about 1/4 mile. The Bybee Bridge is about 200 yards downstream from the Camas Creek screw gates. The Camas Creek screw gates are considered to be the administrative beginning of Mud Lake.

II. HISTORICAL PERSPECTIVE

Suave vs. Abbot, 1930.

This Federal Court decree addressed Mud Lake and its surface tributaries, a few non-tributary lakes and streams, and a small number of groundwater rights. None of the non-tributary rights nor groundwater rights specifically named in Suave are claimed or delivered below the Bybee Bridge area.

For rights "having points of diversion from Mud Lake or its tributaries at points affected by the back waters of Mud Lake," an allotment system is prescribed for accounting and delivery. Key features of this system include:

1. The volume to be allocated to users includes an 18,000 acre-foot estimate for the anticipated inflows from Camas Creek during the season.

2. While the rights are described in terms of diversion rates, the operation of the allotment system effectively makes them storage rights administrated on a volume basis.

3. The decree specifies that in the calculation of the allotment, "there shall be disregarded any waters brought into Mud Lake from independent or non-tributary sources of supply."

Owlsey Canal Co. vs. Bauerly, 1940.

Watermaster records as early as 1931 document separate accounting of well water, alternately identified as "well water" and "independent supply." The record is unclear, but this "independent supply" may have originally also included water from North Lake and/or Spring Lake, which were decreed to be "non tributary."

The status of groundwater as "independent" or "non-tributary" water was challenged by holders of surface rights, who believed that wells were depleting their natural supply. The Bauerly decree addresses the status of groundwater delivered via the lake, finding that the water diverted from the wells is "only in part tributary to Mud Lake," and "is in part derived from deep underground sources of supply, wholly independent of Mud Lake and its tributaries."

Bauerly resolved this conflict by adopting a stipulated agreement that the tributary portion of well water is "the reasonable equivalent of the natural flow of said wells during the non-irrigation season of each year" and that the wholly independent portion is the "amount flowing from said wells, or that may be withdrawn

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therefrom (as hereinafter limited)[1] during the irrigation season extending from May 1st to November 1st of each year."

Early-Season Pumping

Bauerly has historically been interpreted to mean that artesian flow prior to May 1 is the property of holders of surface rights, and that all well water (artesian or pumped) diverted after May 1 is the property of the holders of the groundwater rights.

This leaves a gap of the status of well water pumped prior to May 1. Former watermaster Loy Johnson stated in a telephone interview that in the 1950's, when early pumping did occur, it was accounted the same as artesian flow, as part of the "natural supply" of Mud Lake.

In the June 5, 1961 minutes of the Owsley Canal Company it is noted that "Carter of the Dept. of Reclamation told Don Shenton and Jack Gerard that the water master should give Owsley Canal Co. credit for water pumped from wells not mentioned in the decree before May 1, until someone proves differently."

In 1982, a formal agreement was signed, detailing the practice of early pumping. Provisions include:

1. Early-season pumping practice commenced "about 1960" during years of shortages.

2. Early pumping is to be administered by the watermaster, who "shall have no obligation other than to exercise his best judgement in the determinations, decisions and actions he is required to perform hereunder, after consultation with the presidents of the Canal Companies and Independent Water Users Association."

3. Early pumping is at the cost of the owners of the wells, and the water is to be measured into the lake by the watermaster and recorded "as a separate item on the record kept by him known as the 'Mud Lake Allotment Sheet,' under the heading 'Well Water Balances.'"

4. Transmission and storage losses are to be charged, but "because of the difficulty in making measurements of actual transmission and storage losses prior to May 1, the watermaster shall deduct amounts determined by the watermaster to be necessary."

5. Provision five of the agreement asserts that "said pre-irrigation season pumping shall be in lieu of any natural or artesian flows which may have occurred during the same period, and the parties hereto agree that each has a valid and existing right to engage in and continue the practice of pre-irrigation season pumping, as described herein, by virtue of the above-referenced court decrees, and having done so over a period of many years. No party claims any right other than or in addition to the rights set forth in said decrees."

   Whatever the intent of this paragraph, administration of early-season pumping has been as described below.

6. An attachment to the agreement addresses the compensation of certain individuals for the cost of operating sub pumps to deal with dike seepage attributed to "high lake levels caused by pre season pumping."

7. The agreement was to be renewed every five years. The practice has continued (as needed) but it is unclear whether the agreement has been formally renewed.

[1] The limitations referred to included limitations of diversion rate and annual volume.

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III. OPERATION

Classes of Water

The watermaster maintains a ledger system known as the Mud Lake Allotment sheet, whose format has changed very little since 1931. For each user there is an accounting of "Allotment Balance" and "Well Balance." Each balance is a line entry in either the "allotment" or "well" section of the sheet, with the current number of acre feet of storage allotted to or owned by that right holder. If a user holds multiple water rights, the groundwater rights are combined in a single Well Balance entry and the surface water rights are combined in a single Allotment Balance entry. Columns on the allotment sheet represent balances at different points in time.

Allotment balances include natural inflows to the lake from surface sources, and artesian-well inflows after October 31 and prior to May 1. Well balances include all inflows from wells (whether pumped or artesian) from May 1 to November 1, and water pumped prior to May 1 per the early-pumping agreement.

Ownership of allotment balances is in priority-date order of surface rights. Volumes are as allocated by the watermaster, first in the provisional allotment and then in the final allotment, as described below. Ownership of well balances is by well owner, based on measured contributions to the lake storage.

Accounting and Allotment System

On May 1, the watermaster reads the gauge height of the lake and calculates the total volume in the lake, using a USGS rating chart. To this he adds his own estimate of anticipated Camas Creek inflows. Often this estimate is different from the 18,000 acre feet specified by the Suave decree (experience has shown that in a dry year, the Suave estimate is far too high). The watermaster subtracts an amount for dead storage, and subtracts volumes already credited to "Well Balances."[2] The result is the provisional allotment, which is allocated to holders of surface rights in order of priority. The volumes for individual rights are calculated at 2 cfs/day for 123 days.

The watermaster keeps daily records of lake levels, inflows (both natural and pumped), and of diversion volumes. Every fifteen days, he/she adjusts the Allotment Sheet. The sheet includes a section for a mass-balance calculation to determine total losses in the lake, and a section for using evaporation pan data to attribute losses to "evaporation losses" and "unaccounted losses." Diversion volumes (know as "drafts") are subtracted from the respective balances, and losses are charged against all balances, proportionally by stored volume. Well contributions during the period are added to the well balances.[3] Surface contributions are not added until the allotment is recalculated, as described below.

The watermaster also assesses the cumulative contributions of Camas Creek and the outlook for future contributions. Historically, the allotments are adjusted when Camas Creek stops flowing, at which time a "final allocation" is made, using that season's actual Camas Creek contributions in place of the estimate used in the provisional allotment.. The general perception seems to be that the watermaster could revise the provisional allotment at any of the 15-day recalculations, though the need has apparently not arisen.

---

[2] While the Suave Decree uses the period May 1 to September 1 as a period for calculation, it clearly authorizes diversion before May 1 or after August 31, requiring such volumes to be subtracted from the user's balance. Logic would require pre-May volumes to be added into the allotment calculation prior to computing the balance, but the records examined did not include years when water was delivered earlier than May 1, so it is unclear whether this practice has been followed.

[3] Well contributions are measured at points of injection, so transmission losses are not charged against well balances. The reference to transmission losses in the Early Pumping Agreement refers to the fact that one of the canals is co-owned, with some users' wells further up the canal than others. Loss calculations are used to apportion water delivered at the point of injection, prior to being added to the respective Well Balances.

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Typically, the final allotment is larger than the provisional allotment, so holders of the most junior rights find their allotment adjusted upwards.

Carryover

An overdraft could result from a final allotment being less than the provisional allotment, or from inadequate well pumping. A resolution in recent Water District meetings has required that "negative balances" (implying either well or allotment balance?) be charged against the following year's allotment. From the record it appears that overdrafts have ~~been~~ also been handled by a sale of allotment or well balance from one user to another.

A literal reading of Suave implies that all previous surface balances are taken to zero when the watermaster measures the content of the lake on May 1, and this has been the historical practice (except for the resolution regarding carry-over of negative balances).

The Suave exclusion of "independent" waters could be construed to allow carryover of well balances, and a November 6, 1952 memo from watermaster Henninger to Owsley Canal indicates that a well balance was carried over in that year. However, recent practice has been to <u>not</u> carry over (positive) well balances, and the 1982 early-season pumping agreement specifies that early-season pumped volumes shall not be carried forward. This understanding was confirmed by the watermaster and later by the water users at the public meeting, but the 1997, 1998, and 1999 Water District minutes do not include a specific resolution to that effect.[4]

Season of Use

General practice has been for an irrigation season of May 1 through October 31, but the watermaster and water users agree that occasionally an "April draft" of surface water has been used in a year with a dry spring. The Bauerly decree's May 1 date has been used as the start of the season for use of well water, except as provided by the early pumping agreement.

[4] Ron Carlson believes that carry-over should not be addressed in the General Provision, leaving an opportunity for the dept. and/or the water users to begin year-round accounting at some point in the future. This possibility was presented to the water users, who preferred that the General Provision specify carryover provisions.

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Alternate B31 GP

1. Allotment System

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a. Definitions:

Change Source of Camas Creek to Mud Lake

Mud Lake: For purposes of administration, Mud lake is defined as "Mud Lake or its tributaries at points affected by the backwaters of Mud Lake." Historically this has been Mud Lake and Camas Creek downstream of T7N R35E Section 25, SE 1/4, ~~the location known locally as Bybee Bridge~~. SW SW SE ~~This location could change with changes in the physical structures built on Camas Creek or Mud Lake.~~

Watermaster: The administrator of water rights in Basin 31, elected and/or appointed pursuant to Idaho Code 42-605.

Divertable Volume: Water in Mud Lake ~~capable of being diverted. It is that water~~ above the elevation of X feet above msl. ~~minimum elevation from which the diversion works can extract water. Historically, water above -1.0 feet on the USGS gage has been considered divertable, but this value could change as a result of changes in the gage datum, changes in the lake topography, or general changes in diversion works.~~

Allotment Sheet: An accounting system maintained by the Watermaster. ~~It includes the~~ Consisting of: A) "Allotment" section which records volumes deliverable to holders of surface water rights; B) the "Well Balance" section which records volumes deliverable to holders of ground water rights; ~~and~~ C) the "Inflow/Outflow Accounting" section, which records evaporation and other losses, inflows, outflows, and mass-balance calculations.

Early Season Ground Water: Ground water diverted to storage in Mud Lake prior to May 1, under

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water right 31-332, 31-

~~the Early Season Pumping remark~~. It is accounted for in the Well Balance section of the Allotment Sheet.

Water Delivered Prior to May 1: Surface water delivered from Mud Lake after March 31 and prior to May 1. It is added to the Provisional Allotment calculation as water having been available for use in the current irrigation season, but deducted as a draft from the Individual Allotment balance of the water user who diverted it.

Allotment: The volume of water to be allocated among holders of surface water rights diverted out of Mud Lake, either the Provisional Allotment or the Final Allotment as defined below.

Provisional Allotment: The Divertable Volume of Mud Lake on May 1, less Early Season Ground water Contributions, plus ~~W~~water ~~D~~delivered ~~P~~prior to May 1, plus the anticipated natural inflows to Mud Lake for the current irrigation season. The Provisional Allotment is the volume of water anticipated to be deliverable to holders of surface water rights diverted from Mud Lake~~, and is to be allocated to individual surface right holders in order of priority~~.

Final Allotment: The Divertable Volume of Mud Lake on May 1, less Early Season Ground water Contributions, plus Water Delivered Prior to May 1, plus the actual natural inflows to Mud Lake from May 1 to the date of the calculation of the Final Allotment. Calculated when natural inflows to Mud Lake via Camas Creek have ceased and no further natural inflows are anticipated via Camas Creek. The Final Allotment is the actual volume of water deliverable to holders of surface water rights diverted from Mud Lake~~, and is to be allocated to individual right holders in order of priority~~.

Individual Allotment: The portion of the Allotment allocated to an individual water user, according to the volumes and priority dates of his/her surface water rights diverted out of Mud Lake~~, relative to the volumes and priority dates all the surface water rights diverted out of Mud~~

according to the priority dates and sum of the volumes of his

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~~Lake.~~

the individual's

Individual Allotment Balance: The Individual Allotment less the cumulative total of withdrawals of allocated water and the cumulative total of the proportionate share of losses charged against the allotment.

Well Balance: The volume of stored water in Mud Lake that has been injected from ground water, from May 1 to November 1, or that has been injected from Early Season Groundwater pumping.

Individual Well Balance: The portion of the Well Balance allocated to an individual water user, according to the injections made from that user's well(s), under that user's ground water right(s).

Positive Balance: An Individual Allotment Balance or Individual Well Balance with a value greater than zero.

Negative Balance: An Individual Allotment Balance or individual Well Balance with a value less than zero.

b. This General Provision shall apply to all water rights diverted or rediverted out of Mud Lake as defined for administrative purposes.

c. The Watermaster shall maintain the Allotment Sheet to show the ownership of Allotment water and Well Balance water. Well Balances shall be recorded beginning with the date of the first pumping of wells or May 1, whichever is earlier. Allotment Balances shall be computed beginning May 1. The Allotment Sheet shall be maintained through November 1.

d. Ground water flowing without pumping into Mud Lake, prior to May 1 and after October 31, shall be accounted as natural inflow to Mud Lake and shall not be carried in any Well Balance or Individual Well Balance. Owners of wells capable of flowing without pumping into Mud Lake

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shall allow such wells to flow, and shall allow such water to accumulate in Mud Lake, prior to May 1 and after October 31.

e. All well water, whether naturally flowing or pumped, diverted from May 1 to November 1, shall be credited to the Individual Well Balance of the water user owning the well(s) and water right(s) under which the water is diverted.

f. Early Season Ground Water shall be credited to the Individual Well Balance(s) of the water user(s) owning the well(s) and water right(s) under which the water is diverted.

g. On May 1 of each year, the Watermaster shall compute the Provisional Allotment and allocate it to the Individual Allotments of water rights defined in (b.) above, and record the Individual Allotments on the Allotment Balance section of the Allotment Sheet. Every fifteen days thereafter the Watermaster shall adjust the Individual Allotment Balances according to daily records of evaporation and other losses, and daily records of diversions. At the same time the Watermaster shall also adjust the Well Balance and Individual Well Balances according to daily records of evaporation and other losses, daily measured inflows, and daily records of diversions.

h. The Watermaster shall maintain daily records of natural inflows to Mud Lake from Camas Creek. At each fifteen-day recalculation interval, the Watermaster may if necessary adjust the Provisional Allotment and recalculate the Individual Allotments to correspond to actual natural inflows and revised anticipated natural inflows.

i. At such time as Camas Creek ceases to contribute water to Mud Lake, and no further contributions are anticipated in the current irrigation season, the Watermaster shall compute a Final Allotment and recalculate Individual Allotments.

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Provisional or Final

j. At such time that all Individual Allotments cannot be completely filled, the Allotment and Individual Allotments shall be recalculated to prevent injury to holders of senior surface water rights.

k. At each fifteen-day recalculation interval, all evaporation and other losses shall be proportioned according to the volume of water recorded in each respective Individual Allotment Balance or Individual Well Balance and charged against these balances.

l. Positive Balances shall not be carried forward past November 1.

m. Negative Balances shall be carried forward to the subsequent irrigation seasons Allotment Sheet and charged against the Individual Allotment Balance on May 1. If Negative Balances are in excess of the calculated Individual Allotment, the excess amount shall be charged against the Individual Well Balance on May 1.

n. The Watermaster may determine that the water user(s) may not withdraw more than 35% of the Individual Allotment in any calendar month if necessary to prevent injury to other water users. All water, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's Individual Allotment.

2. Conjunctive Management

(use most current language)

Note that 31-160 and 31-161 were decreed from Spring Lake, decreed to be non-tributary to Mud Lake, but have been claimed with an accomplished change of source to GW. Carter is reviewing these claims.

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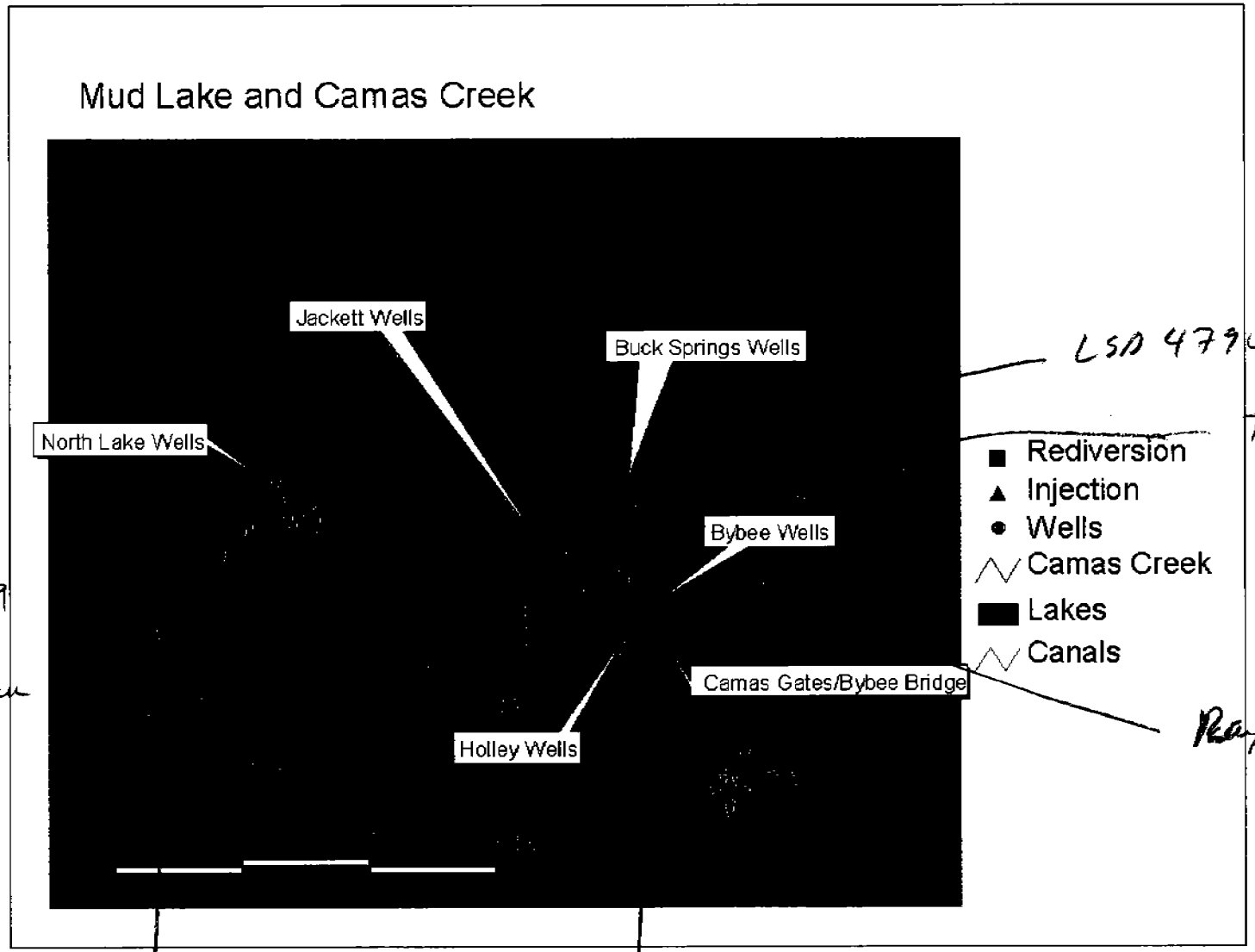


LSD 4790

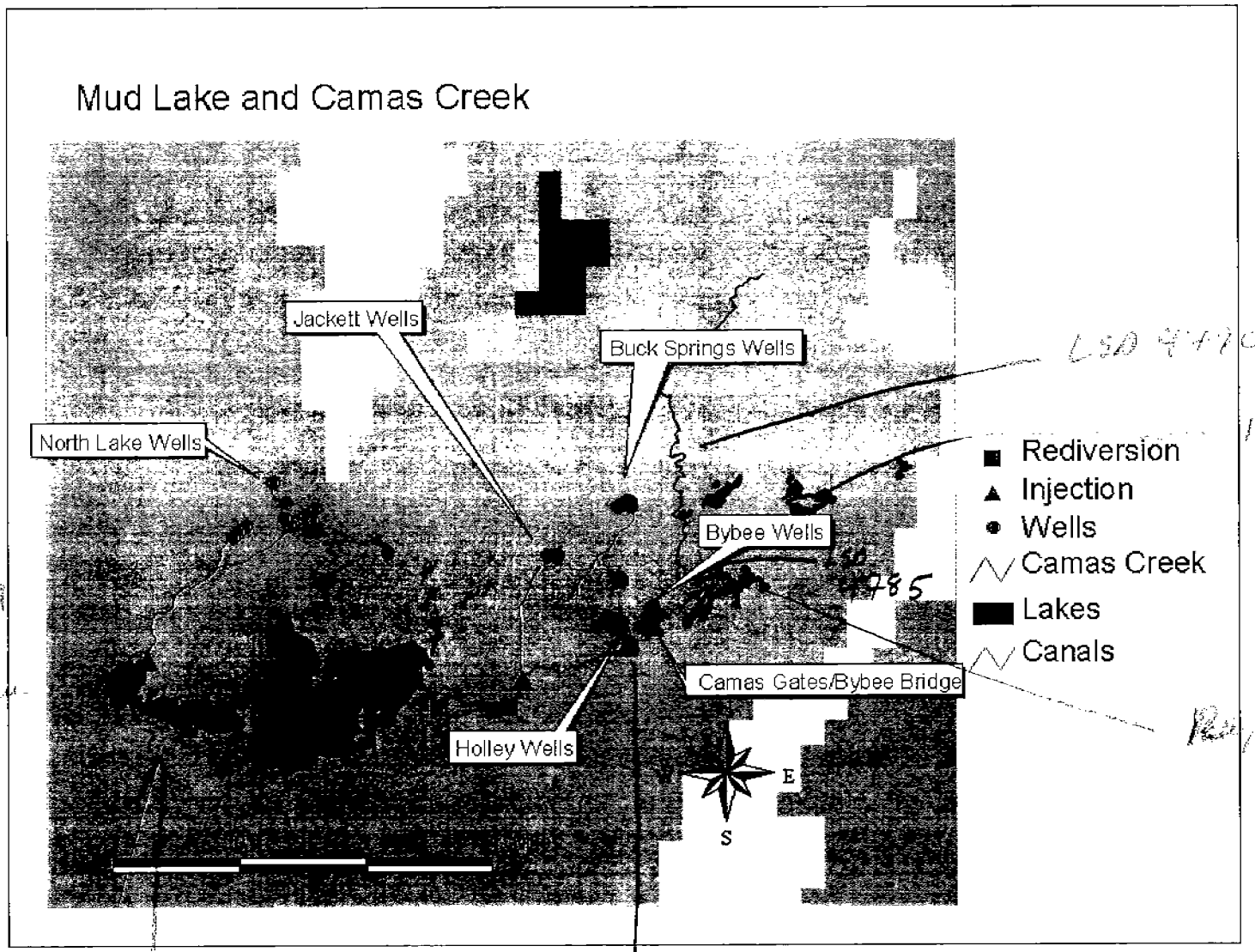
Two-way pond
LSD 4788

Rays Lake el.
4784

map 4779
gage datum
4774.99
Max rating
4786
Open. 4783

LSD 4785

LSD 4785 - Creek ≈ 12' deep?


Mud Lake and Camas Creek
Jackett Wells
Buck Springs Wells
North Lake Wells
Bybee Wells
Camas Gates/Bybee Bridge
Holley Wells
Rediversion
Injection
Wells
Camas Creek
Lakes
Canals
E
S

№ 17611

APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF IDAHO

Application No. 24716
Permit No. 17611
District No.

CANCELLED pursuant to sec 42-2
Idaho Code Annotated, by order
of Commissioner of Reclamation
dated MAR [illegible] 1935

1. Name of Applicant: R. E. Knapp

Postoffice address: Terreton County: Jefferson State: Idaho

1. If applicant is a corporation, give:
   (a) Date and place of incorporation:
   (b) Amount of capital stock:
   (c) Amount paid in:
   (d) Names and addresses of directors:

II. The financial resources of the applicant are:
   (a) Cash on hand:
   (b) Treasury stock
   (c) Bonds to be issued:
   (d) Other resources:

2. Quantity of water claimed: 110 second feet cubic feet per second.

3. Source of water supply: Underground waters - for details/ see "Remarks" which is not a tributary of any other source so far as known.

4. Location of point of diversion: See remarks feet distant from the corner of Section , T. , R. , B. M., and is in the of Section , T. , R. , B. M., County of

5. Water is to be used for: Irrigation

6. If for mining, milling, power or manufacturing purposes, give:
   (a) Point of use of water: feet distant from corner of Section T. , R. , B. M., in the of Section , T. , R. , B. M.
   (b) Amount of power generated: H. P., under feet head.
   (c) Water is to be returned to at a point feet distant from the corner of Section , T. , R. , B. M., in the of Section , T. , R. , B. M.

7. Estimated cost of works: $4000.00

8. Kind of works: Wells and gathering ditches

9. Height of dam feet; length of dam at top feet; length of dam at bottom feet; material used in dam:

10. Size of headgate: Width feet; height feet.

11. Ditch: Width at bottom a - 20 ft. b - 15 " c - 25 " feet; width at water line a - 24 ft. b - 19 " c - 20.6" feet; depth of water a - 2 ft. b - 2 " c - 2.3" feet; dimensions of flume:
   Diameter of pipe inches; length of conduit a - 3 miles b - ½ mile c - 3 miles miles.
   Average grade per mile 1 feet.

12. The time required for the completion of such work is Two years and 8 months years.

13. The time required for the complete application of the water to the proposed use is Three additional years.

14. The land to be irrigated is described in the following tabulation: See remarks.

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Water is to be stored in Mud Lake

15. (a) Is reservoir to be used? which is a natural reservoir, fill in (b) and (c) below.
(b) Name of Reservoir and number of Storage Permit:
(c) Date of filing of Application for Storage Permit and Name of Applicant:

BE IT KNOWN THAT The undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as hereinafter set forth.

R. E. Knapp *Applicant.*

By Edwin Snow *Agent.*

Date of first receipt at Department of Reclamation: 10:00 a. m., November 16, 1931

Returned to applicant for correction

Corrected application received

APPROVAL OF COMMISSIONER OF RECLAMATION

The number of this permit is 17611
Recorded in Book 14 Page 17611 Approved December 7, 1931
Know Ye, That I have examined the within application for a permit to appropriate the public waters of the State of Idaho, and hereby approve the same, subject to the following limitations and conditions:
Fee of the sum of $ to be filed on or before
Work to begin on or before February 1, 1932 and to continue diligently and uninterruptedly to completion, unless temporarily interrupted by circumstances over which permit holder has no control.
One-fifth of the work above specified to be completed on or before Apr. 1, 1933
The whole of said work to be completed on or before August 1, 1934
Beneficial use of water appropriated in accordance herewith, to be made on or before August 1, 1937

Witness my hand this 7th day of December, 1931

R. W. FARIS
Commissioner of Reclamation.

Remarks

14.

Twp.	Range	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
		15	40			40						40	40	40	40		40	40	320
		16	40	40	40	40	40	40	40	40									320
		17	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		18	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		19	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		20	40	40	40	40	40	40	40	40	40	40	40	40					480
		29					40	40	40	40	40	40	40	40					320
		30	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		4									40	40	40	40					160
		5	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		7	40			40									40			40	160
		8	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		9					40	40	40	40	40	40	40	40	40	40	40	40	480
		10											40						40
									40		40	40	40	40	40	40	40	40	360
		14				40							40		40	40	40	40	240
		15									40	40	40	40					160

Remarks: The following shows the amount of water to be developed on each 40 acre subdivision involved, the several subdivision being the point of diversion for the amount of water set opposite: i.e. an amount equivalent to a continuous flow of:

Second Feet	Subdivision	Section	Township	Range
40	NE¼ NE¼	27	7 N.	35E.
10	NE¼ SE¼	22	7 N.	35E.
10	NW¼ SE¼	22	7 N.	35E.
10	NE¼ SW¼	22	7 N.	35E.
10	NW¼ NE¼	24	7 N.	34E.
10	NE¼ NE¼	24	7 N.	34E.
10	NW¼ SE¼	13	7 N.	34E.
10	SW¼ SE¼	13	7 N.	34E.

The water to be developed at the several wells located as above described is to be conveyed in ditches to Mud Lake, there diverted at a point North 42° 30' East 3995 feet from the quarter corner common to Sections 11 and 14, Township 6 North, Range 34 East, B.M. and distributed by a system of canals and laterals already constructed upon the lands shown in accompanying list.

Twp.	Range	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
6N.	34 E.	16	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640

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Nº 17612

APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF IDAHO

Relinquished

Application No. 24573
Permit No. 17612
District No.

1. Name of Applicant: F. B. Jones

Postoffice address: Boise County: Ada State: Idaho

I. If applicant is a corporation, give:
(a) Date and place of incorporation:
(b) Amount of capital stock:
(c) Amount paid in:
(d) Names and addresses of directors:

II. The financial resources of the applicant are:
(a) Cash on hand:
(b) Treasury stock
(c) Bonds to be issued:
(d) Other resources:

2. Quantity of water claimed 100 cubic feet per second.

3. Source of water supply: Subterranean Water which is not tributary to any other stream so far as known.

4. Location of point of diversion: See specific locations and/quantities under "remarks" feet distant from the corner of Section , T. , R. , B. M., and is in the of Section , T. , R. , B. M., County of Jefferson

5. Water is to be used for: Irrigation and domestic purposes

6. If for mining, milling, power or manufacturing purposes, give:
(a) Point of use of water: feet distant from corner of Section T. , R. , B. M., in the of Section , T. , R. , B. M.
(b) Amount of power generated: H. P., under feet head.
(c) Water is to be returned to at a point feet distant from the corner of Section , T. , R. , B. M., in the of Section , T. , R. , B. M.

7. Estimated cost of works: $ 5000.00

8. Kind of works: Drilled wells and ditches

9. Height of dam feet; length of dam at top feet; length of dam at bottom feet; material used in dam:

10. Size of headgate: Width feet; height feet.

11. Ditch: Width at bottom a - 25 b - 20 feet; width at water line a - 32.5 b - 26 feet; depth of water a - 2.5 b - 2 feet; dimensions of flume:
Diameter of pipe inches; length of conduit a - 5/8 mi. b - 3/8 mi. miles.
Average grade per mile .0002 feet.

12. The time required for the completion of such work is Two years and 8 months years.

13. The time required for the complete application of the water to the proposed use is Three additional years.

14. The land to be irrigated is described in the following tabulation: See remarks.

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winter flow is to be stored in Mud Lake,

15. a) Is reservoir to be used? a natural reservoir If so, fill in (b) and (c) below.
b) Name of Reservoir and number of Storage Permit:
c) Date of filing of Application for Storage Permit and Name of Applicant:

BE IT KNOWN THAT The undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

F. B. Jones *Applicant.*

By *Agent.*

Date of first receipt at Department of Reclamation: [illegible] July 16, 1931

Returned to applicant for correction, August 15, 1931

Corrected application received: October 14, 1931

APPROVAL OF COMMISSIONER OF RECLAMATION

The number of this permit is 17012
Recorded in Book 64 Page 17012 Approved December 2, 1931
This is to certify that I have examined the within application for a permit to appropriate the public waters of the State of Idaho, and hereby approve the same, subject to the following limitations and conditions:
Bond in the sum of $ to be filed on or before
Work to begin on or before February 1, 1932 and to continue diligently and uninterruptedly to completion, unless temporarily interrupted by circumstances over which permit holder has no control.
One-fifth of the work above specified to be completed on or before Apr. 1, 1933
The whole of said work to be completed on or before August 1, 1934
Beneficial use of water appropriated in accordance herewith, to be made on or before August 1, 1937

Witness my hand this 2nd day of December, 1931

R. W. FARIS
Commissioner of Reclamation.

Remarks:

14.

Remarks: It is proposed to drill wells and develop underground water therefrom within the following subdivisions to the extent shown opposite each respectively: an amount equivalent to continuous flow of:

Upon	SW¼ NW¼,	Sec. 15,	T. 7 N.,	R. 36 E.B.M., 20 sec. ft.
Upon	NE¼ NW¼,	Sec. 16	T. 7 N.,	R. 36 E.B.M. 16 sec. ft.
Upon	NE¼ SW¼,	Sec. 16	T. 7 N.,	R. 36 E.B.M. 16 sec. ft.
Upon	NW¼ SE¼,	Sec. 16	T. 7 N.,	R. 36 E.B.M. 16 sec. ft.
Upon	SE¼ NW¼,	Sec. 25	T. 7 N.,	R. 35 E.B.M. 16 sec. ft.
Upon	NE¼ SW¼,	Sec. 25	T. 7 N.,	R. 35 E.B.M. 16 sec. ft.

The water so developed will be conveyed through artificial ditches to Mud Lake; thence through Mud Lake to existing point of diversion therefrom of Owsley Canal Company located N. 42° 30' E. 3935 feet from the North Quarter corner Section 14, Twp. 6 N., R. 34 East B. M. (which is in the SW¼ NW¼ Sec. 12, Twp. 6 N., R. 34 East B. M.); thence the water will be conveyed through the existing irrigation system of Owsley Canal Company.

Twp.	Range	Sec.	NE¼ NE¼	NE¼ NW¼	NE¼ SW¼	NE¼ SE¼	NW¼ NE¼	NW¼ NW¼	NW¼ SW¼	NW¼ SE¼	SW¼ NE¼	SW¼ NW¼	SW¼ SW¼	SW¼ SE¼	SE¼ NE¼	SE¼ NW¼	SE¼ SW¼	SE¼ SE¼	Totals
6 N.	34 E.	6	40			40						40	40	40	40		40	40	320
		10	40	40	40	40	40	40	40	40									320
		17	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		18	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		19	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		20	40	40	40	40	40	40	40	40	40	40	40	40					480
		29					40	40	40	40	40	40	40	40					320
		30	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
6 N.	34 E.	4									40	40	40	40					160
		5	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		7	40			40									40			40	160
		8	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		9					40	40	40	40	40	40	40	40	40	40	40	40	480
		16											40						40
		13							40		40	40	40	40	40	40	40	40	360
		14				40							40		40	40	40	40	240
		15									40	40	40	40					160
		16	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		17					40	40	40	40	40	40	40	40	40	40	40	40	640

Twp.	Range	Sec.	NE¼ NE¼	NE¼ NW¼	NE¼ SW¼	NE¼ SE¼	NW¼ NE¼	NW¼ NW¼	NW¼ SW¼	NW¼ SE¼	SW¼ NE¼	SW¼ NW¼	SW¼ SW¼	SW¼ SE¼	SE¼ NE¼	SE¼ NW¼	SE¼ SW¼	SE¼ SE¼	Totals
6 N.	34 E.	20	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		21	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		22	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
		23	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640

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Contor, Bryce

From: Contor, Bryce
Sent: Wednesday, December 27, 2000 10:42 AM
To: Saxton, Glen
Cc: Jones, Harold (Skip); McHugh, Candice; Tuthill, Dave
Subject: Preliminary Order Amending Transfer 5335

This morning I met with Mud Lake Water Users and the watermaster, at the request of MLWU. We can probably expect a petition for reconsideration on the priority date of the cancelled and relinquished permits; they seek the original permit priority dates.

The grounds will be the precendent set by the department in recognizing the original permit date as the priority date for 31-00337A and 31-00337B, in transfers 2303 and 5335. This right was originally issued as permit 17763, which was cancelled by the department.

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Contor, Bryce
From: Hansen, Richard
Sent: Friday, December 01, 2000 1:17 PM
To: Contor, Bryce
Subject: RE: re-run of voice mail

Sorry about the typo. The application for 17612 was originally received on July 6, 1931. It was returned to the applicant on August 15, 1931. The corrected application was received on October 14, 1931.

There were no documents for proof of completion of works or for proof of beneficial use.
I will try to fax the permits, but I am not sure how well they will transmit.
I will put the copies in the mail just in case.

Richard

-----Original Message-----
From: Contor, Bryce
Sent: Friday, December 01, 2000 10:05 AM
To: Hansen, Richard
Subject: re-run of voice mail

I didn't know for sure if Boise voice mail is functioning, if I was talking to you or to a black hole.

Could you please double-check the permit date for permit 17612, superceded by decreed number 31-328? The e-mail said 20-14-1931 which isn't a data format I'm familiar with.

Also, could you fax or mail me copies of permit 17611 (31-327) and 17612, along with copies of any proof of completion of diversion works or proof of beneficial use?

Thanksabuncha.

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ARTICLES OF MERGER

OF DOMESTIC CORPORATIONS

INTO

OWSLEY CANAL COMPANY, INC.

Pursuant to the provisions of Section 30-1-74 of the Idaho Business Corporation Act, ıed corporations adopt the following Articles of Merger for the purpose of merging : of such corporations.

FIRST: The following Plan of Merger was approved by the shareholders of each of ıed corporations in the manner prescribed by the Idaho Business Corporation Act:

I.

RECITALS

A. Owsley Canal Compnay, Inc. is validly organized, existing and in good standing under the laws of the State of Idaho. All of the merging corporations are validly organized, existing and in good standing under the laws of the State of Idaho.

B. Owsley Company Canal, Inc., the surviving Corporation, has an authorized capital of 17,818 shares of Common Stock, irrigating 17,818 acres of land. One share per acre. Par value of $1.00 each.

C. Holley Water Users has 2,978 shares of Common Stock, irrigating 2,978 acres. One share each acre. Par value of $1.00 per share.

D. Jackett Canal Company has 3,107.3 shares of Common Stock irrigating 3,107.3 acres of land. One share per acre. Par value of $1.00 each.

E. The Board of Directors of the Constituent Corporations will consider the proposed plan, and if they determine that it is in the best interests of their respective corporations and stockholders that the Merging Corporations merge with and into Owsley Canal Company, Inc., in accordance with the provisions of applicable statues of the State of Idaho, they will submit it to the stockholders of the respective Merging Corporations.

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NOV 0 8 2022

Contor, Bryce

From: Hansen, Richard
Sent: Tuesday, November 14, 2000 2:26 PM
To: Contor, Bryce
Subject: RE: Long Shot

I didn't see any reference to a priority date in either file. I did look at the microfilm for 17611 and 17612 and found that 17611 was cancelled and 17612 was relinquished.

The date the application was received for 17611 was 11-16-1931.
The date the corrected application was received for 17612 was 20-14-1931.

Richard

-----Original Message-----
From: Contor, Bryce
Sent: Tuesday, November 14, 2000 11:23 AM
To: Hansen, Richard
Subject: Long Shot

31-327 arose from the Bauerly Decree, which confirmed ownership of old permit # 17611. The decree didn't identify the priority of the permit, and a "new number" was never issued. There's nothing on the microfiche to give me a priority date.

Same song and dance with 31-328, old permit # 17612,

Could you look in the paper files please and see if there is anything there besides transfer 5335? I've already been through it a couple times and it glosses over the issue.

Thanks, Bryce.

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Old # Book

17608	29-2249	~~1/1/1900~~	35-2916
17614	57-2163	~~1/1/1900~~	61-2244
17620	63-24660	1/22/1932	
17608	35-2916	11/4/1931	17611 11/16/1931
	~~57-2163~~		17612 ??
17614	61-2244	12/9/1931	

31-327 17611

31-328 17612

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NOV 08 2022

To: Dave Tuthill
cc: Candice McHugh
Ernie Carlsen
Harold Jones
Fr: Bryce Contor
Date: 10/30/2000

Bryce A. Contor

Re: Transfer 5335

Candice suggested that I submit a formal request via you, to have this transfer amended.

I request that Transfer 5335 be amended to better reflect the underlying water rights, to reflect field work which has given better resolution on the number and locations of points of diversion, and to reflect the results of our investigation of Mud Lake storage issues.

Amending this transfer will allow me to make adjudication recommendations that are accurate, and are compatible with other recommendations.

Changes Requested:

1. Right 31-327

   Transferred priority date 00/00/0000

   Requested priority date 10/14/1940

   17611 - 11/10/1931

   Basis of request: This right is based upon the Bauerly decree of 1940, which confirmed several permits to several users. Permit 17611 is the basis for decreed right 31-327. That permit was later cancelled by the department, but in a 1980's transfer proceeding with Independent Water Users, the department set the precedent of honoring cancelled or relinquished permits that had been confirmed by Bauerly. Therefore Bauerly becomes the basis for this right, and I request the date of the Bauerly decree as its priority.

2. Right 31-328

   17612 (10/14/1931)

   Transferred priority date 00/00/0000

   Requested priority date 10/14/1940

   Basis of request: This right is also based on Bauerly, but was relinquished rather than cancelled. I request the same priority date, by the same reasoning.

   Transferred Irrigation diversion rate 110 cfs

   Requested diversion rate 100 cfs.

   Basis of request: Bauerly decreed 100 cfs.

3. Right 31-329

   Transferred priority date 00/00/0000

   Requested priority date 1/8/1932

   Basis of request: This right was decreed as a permit by Bauerly, but was later issued as license

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31-2252. The priority date is from the license.

4. Right 31-330

   Transferred priority date 00/00/0000

   Requested priority date 6/26/1936

   Basis of request: This right was decreed as a permit by Bauerly, but was later issued as license 31-2259. The priority date is from the license.

5. All rights

   Transferred season of use for irrigation 4/15 to 10/15
   Transferred season of use for diversion to storage 10/16 to 4/14

   Requested season of use for irrigation 5/1 to 11/1
   Requested season of use for diversion to storage 5/1 to 11/1 with early-season pumping remark

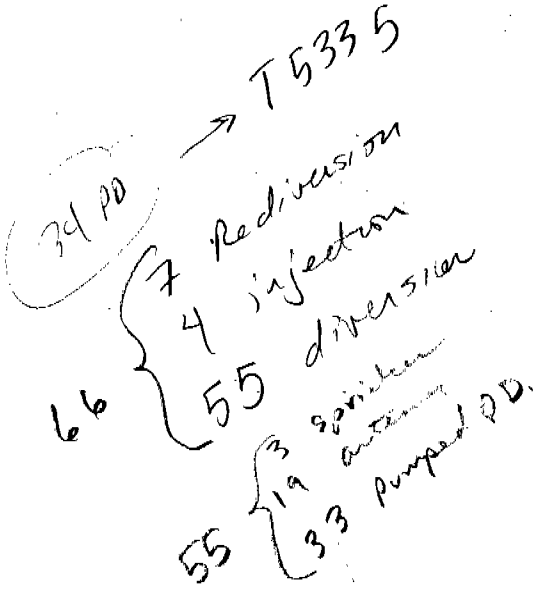
   Basis of request: Bauerly decree specifies 5/1 to 11/1 and this has been confirmed by historical practice. Through a long process of research, review, and consultation with the watermaster we are proposing to retain the 5/1 to 11/1 season on all other GW rights delivered via Mud Lake, with an early-season pumping remark. Putting all the GW rights delivered via the lake on the same footing will facilitate water administration in the basin.

6. All rights

   Transferred points of diversion (see attached copy of transfer) were based on right holder's maps. The list has a number of errors and omissions. Particularly omitted are points of injection and rediversion.

   Requested points of diversion are listed on attachment, and on GIS layer "MLWU POD" on the d-drive pc common directory of computer East 473.

   Basis of request: Field inspection using GPS, consultation with right holder, Water Measurement District records, and older transfers.



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NOV 0 8 2004

TRANSFER NO. 5335

WATER RIGHT NO(S). 31-00327/31-00328/31-00329/31-00330
31-00331/31-00332/31-00336B/31-00337B/31-00371/31-02239
31-02265/31-02289/31-02290/31-02297/31-02310/31-02317A
31-02317B/31-02321/31-02341/31-02342/31-02343/31-02344
31-02345/31-07005

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
Right No. 31-00336B :			Barnett - Dual.
IRRIGATION	04/15 to 10/15	11.05 CFS	
Priority: 04/27/1932			
Right No. 31-00337B :			Barnett - Dual / Merritt M. Dursley
IRRIGATION	04/15 to 10/15	17.00 CFS	
Priority: 12/15/1932			
Right No. 31-00371 :			Holley
IRRIGATION	04/15 to 10/15	23.00 CFS	
Priority: 09/10/1928			
Right No. 31-02239 :			
IRRIGATION	04/15 to 10/15	40.00 CFS	16899.4 AF
Priority: 01/25/1930			
Right No. 31-02265 :			
IRRIGATION	04/15 to 10/15	64.40 CFS	23375.9 AF
Priority: 05/22/1940			
Right No. 31-02289 :			
IRRIGATION	04/15 to 10/15	3.20 CFS	560.0 AF
Priority: 01/13/1949			
Right No. 31-02290 :			
IRRIGATION	04/15 to 10/15	3.60 CFS	840.0 AF
Priority: 02/14/1949			
Right No. 31-02297 :			
IRRIGATION	04/15 to 10/15	6.00 CFS	1190.0 AF
Priority: 12/29/1949			
Right No. 31-02310 :			
IRRIGATION	04/15 to 10/15	5.80 CFS	1015.0 AF
Priority: 09/24/1952			
Right No. 31-02317A :			
IRRIGATION	04/15 to 10/15	8.08 CFS	1414.0 AF
Priority: 02/28/1953			

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FEB 1 1 1999

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NOV 0 8 2007

TRANSFER NO. 5335
WATER RIGHT NO(S). 31-00327/31-00328/31-00329/31-00330
31-00331/31-00332/31-00336B/31-00337B/31-00371/31-02239
31-02265/31-02289/31-02290/31-02297/31-02310/31-02317A
31-02317B/31-02321/31-02341/31-02342/31-02343/31-02344
31-02345/31-07005

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
Right No. 31-02317B :			
IRRIGATION	04/15 to 10/15	1.90 CFS	332.5 AF
Priority: 10/27/1956			
Right No. 31-02321 :			
IRRIGATION	04/15 to 10/15	1.92 CFS	336.0 AF
Priority: 04/25/1953			
Right No. 31-02341 :			
IRRIGATION	04/15 to 10/15	16.00 CFS	5839.4 AF
Priority: 09/03/1954			
Right No. 31-02342 :			
IRRIGATION	04/15 to 10/15	16.00 CFS	5839.4 AF
Priority: 09/03/1954			
Right No. 31-02343 :			
IRRIGATION	04/15 to 10/15	16.00 CFS	5839.4 AF
Priority: 09/03/1954			
Right No. 31-02344 :			
IRRIGATION	04/15 to 10/15	16.00 CFS	5839.4 AF
Priority: 09/03/1954			
Right No. 31-02345 :			
IRRIGATION	04/15 to 10/15	16.00 CFS	5839.4 AF
Priority: 09/03/1954			
Right No. 31-07005 :			
IRRIGATION	04/15 to 10/15	13.26 CFS	4939.4 AF
Priority: 12/04/1967			
	TOTAL:	*** 643.21 CFS	

SOURCE
GROUNDWATER

LOCATION OF POINT(S) OF DIVERSION:

SWNE , Sec. 13, Township 07N, Range 34E
SESE , Sec. 13, Township 07N, Range 34E
NENE , Sec. 23, Township 07N, Range 34E
NENE , Sec. 24, Township 07N, Range 34E
NWNE , Sec. 24, Township 07N, Range 34E

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Mud Lake Water Users Wells

	T	R	S	Lot	QQQ	QQ	Q	Notes
1	7N	34E	13		SW	SW	NE	One Pumped Well
2	7N	34E	13		NE	SW	SE	One Pumped Well
3	7N	34E	24		SW	NE	NE	One Pumped Well
4	7N	34E	24		NE	NW	NE	One Pumped Well
5	7N	34E	24		SW	NW	NW	One Pumped Well
6	7N	34E	~~23~~ 23		SE	NE	NE	One Pumped Well
7	7N	34E	~~23~~ 23		NE	SE	NE	One Pumped Well
8	7N	35E	13		SW	SW	SW	Three Pumped Wells
9	7N	35E	13		SW	SW	SW	Three Pumped Wells
10	7N	35E	13		SW	SW	SW	Three Pumped Wells
11	7N	35E	19	1	NE	NW	NW	One Pumped Well
12	7N	35E	19	1	NW	NW	NW	One Pumped Well
13	7N	35E	19		NW	SE	NW	One Pumped Well
14	7N	35E	19	2	NE	SW	NW	One Pumped Well
15	7N	35E	22		SE	NE	SE	One Pumped Well
16	7N	35E	23		SW	NW	SW	One Pumped Well
17	7N	35E	25		NW	NW	SE	Three Artesian Wells
18	7N	35E	25		NW	NW	SE	Three Artesian Wells
19	7N	35E	25		NW	NW	SE	Three Artesian Wells
20	7N	35E	25		SW	NW	SE	Three Artesian Wells
21	7N	35E	25		SW	NW	SE	Three Artesian Wells
22	7N	35E	25		SW	NW	SE	Three Artesian Wells
23	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
24	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
25	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
26	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
27	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
28	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
29	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
30	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
31	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
32	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
33	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
34	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
35	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
36	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
37	7N	35E	25		SE	SE	SW	One Pumped Well
38	7N	35E	25		NW	SW	SW	Three Pumped Wells
39	7N	35E	25		NW	SW	SW	Three Pumped Wells
40	7N	35E	25		NW	SW	SW	Three Pumped Wells
41	7N	35E	25		SW	SW	SW	Two Pumped Wells
42	7N	35E	25		SW	SW	SW	Two Pumped Wells
43	7N	35E	25		SE	NW	SE	One Pumped Well
44	7N	35E	25		NW	SW	SE	Five Pumped Wells
45	7N	35E	25		NW	SW	SE	Five Pumped Wells
46	7N	35E	25		NW	SW	SE	Five Pumped Wells

7N 35E 18 SWSESW ✓
one pumped well

Spudan wells

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2 pages w/ 5 maps

47	7N	35E	25	NW	SW	SE	Five Pumped Wells
48	7N	35E	25	NW	SW	SE	Five Pumped Wells
49	7N	35E	26	NE	SE	SE	One Pumped Well
50	7N	35E	26	NW	SE	SE	One Pumped Well
51	7N	35E	36	SW	NW	NW	One Pumped Well

Except for the Artesian wells, all these wells are located by GPS and GCDB on ArcView.

Selected Artesian wells were GPS'd as clarity of water allowed. Additional were interpolated per phone interview with Garth Soderquist of Mud Lake Water Users, see memo in file.

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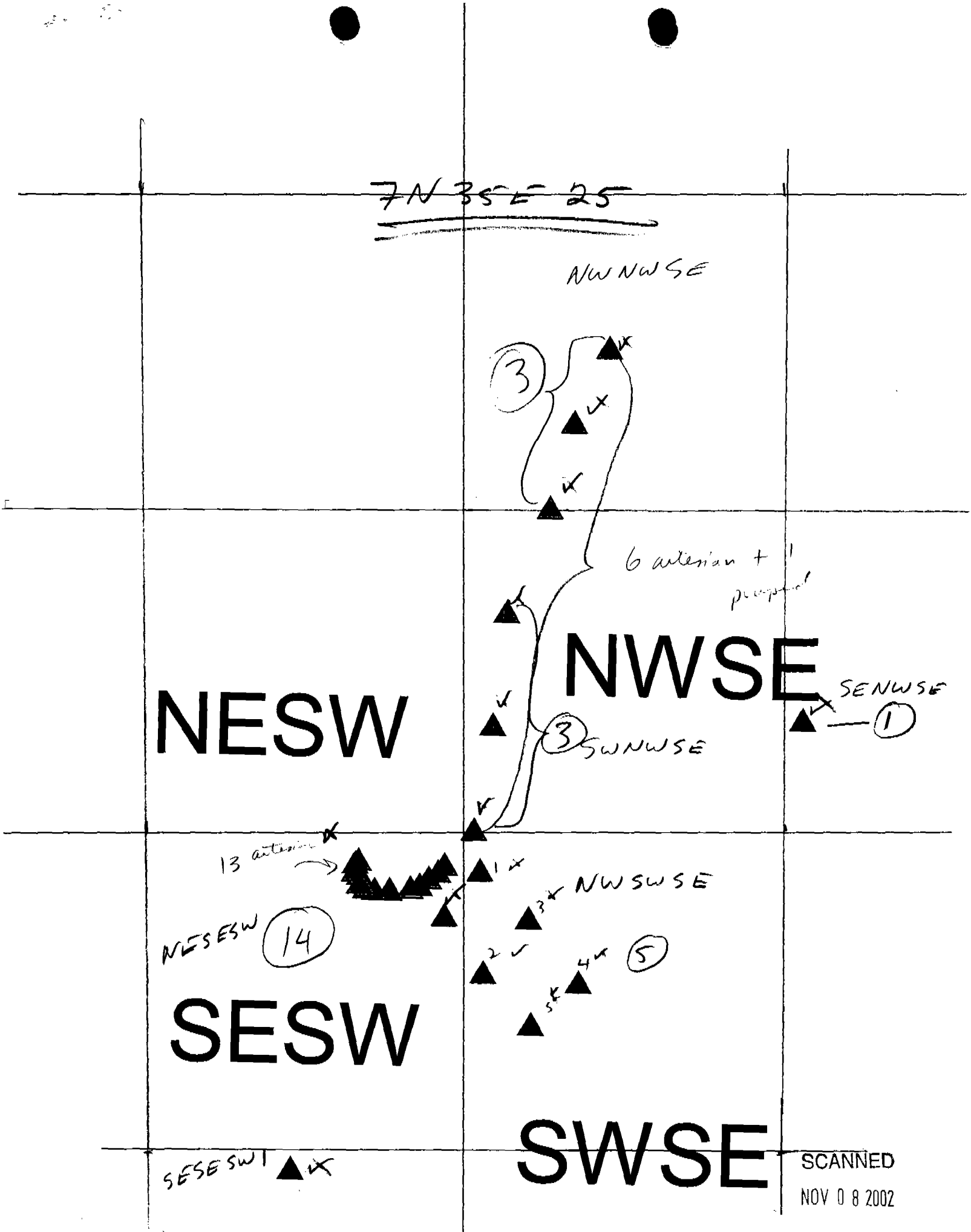
2 pages w/ 5 maps



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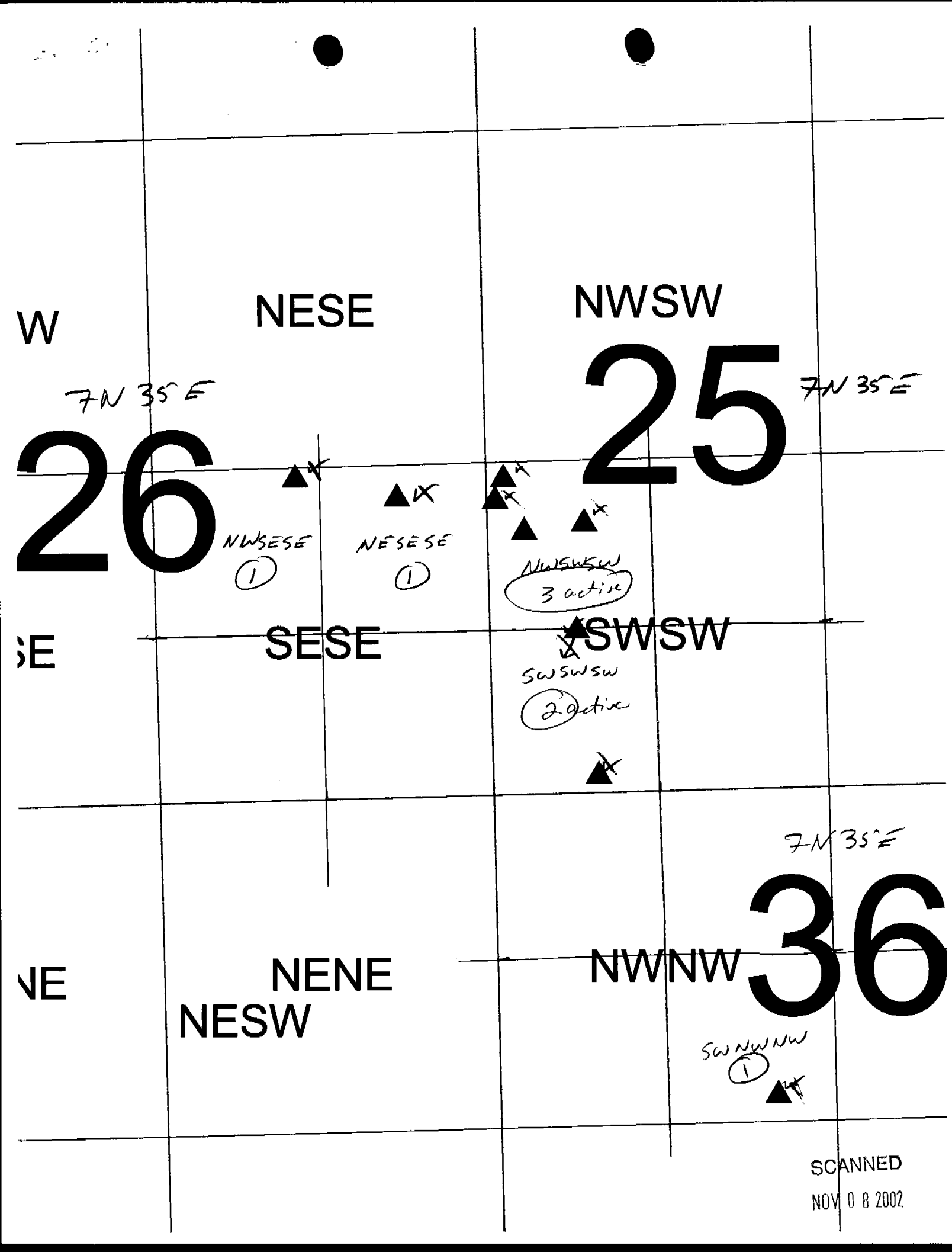

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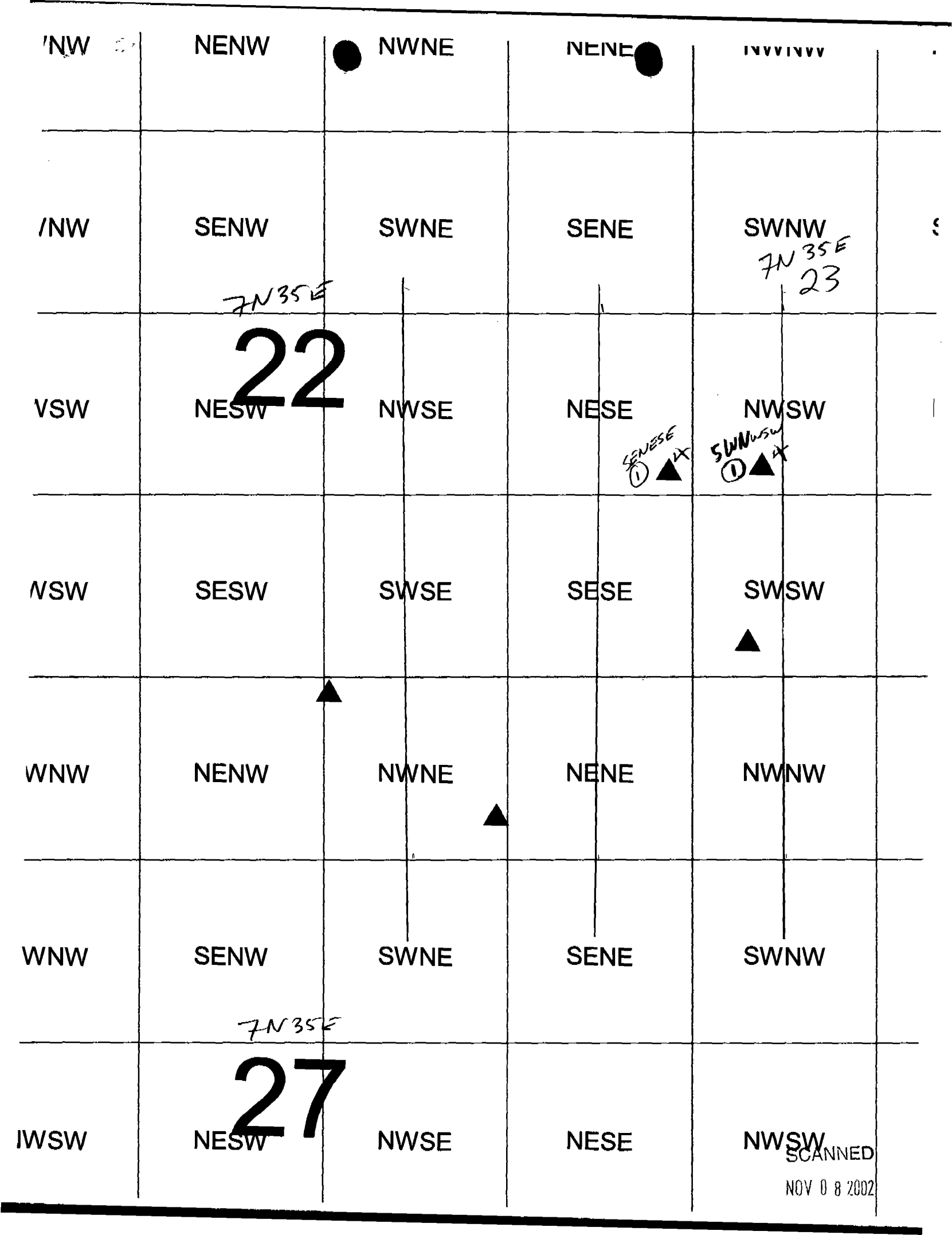

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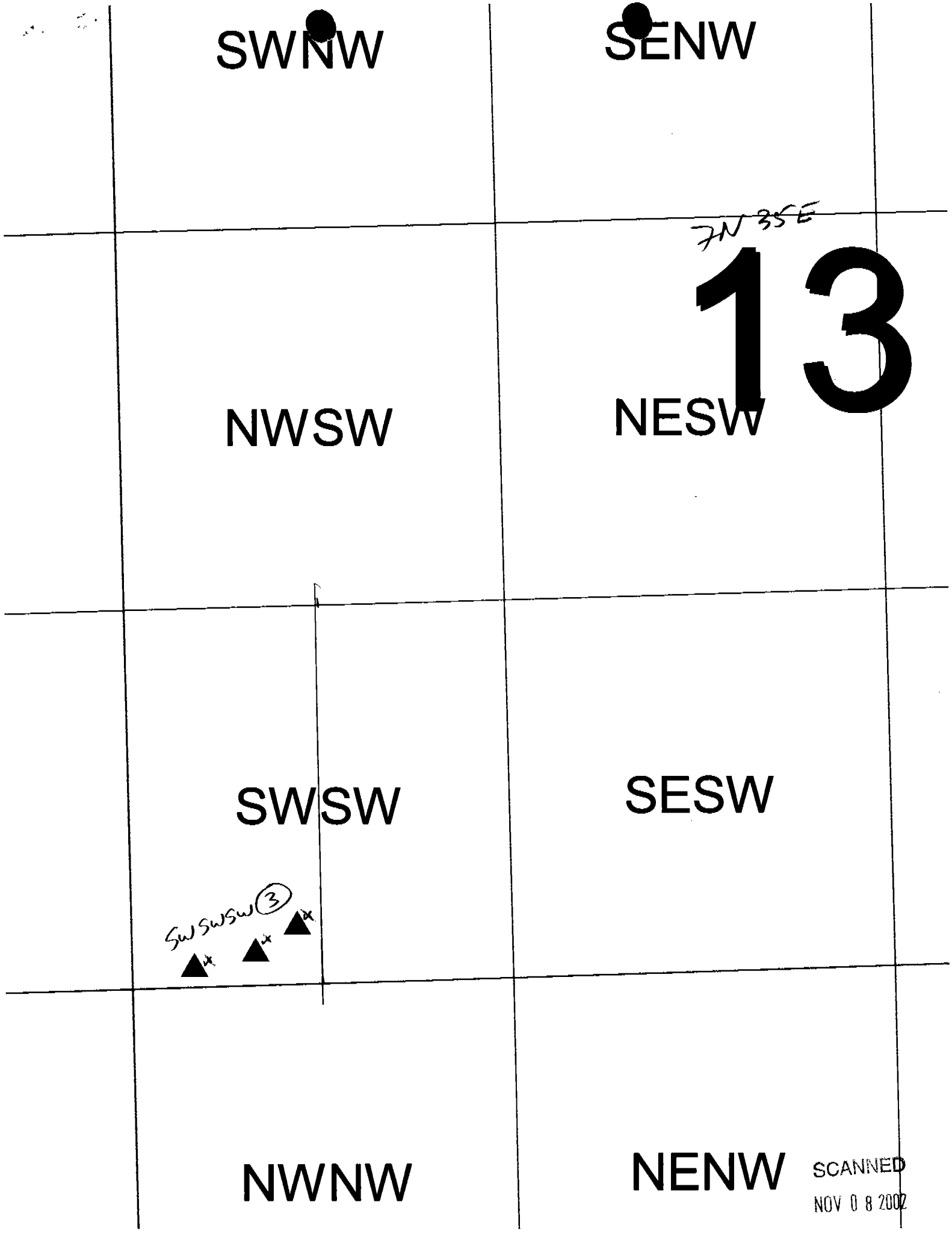

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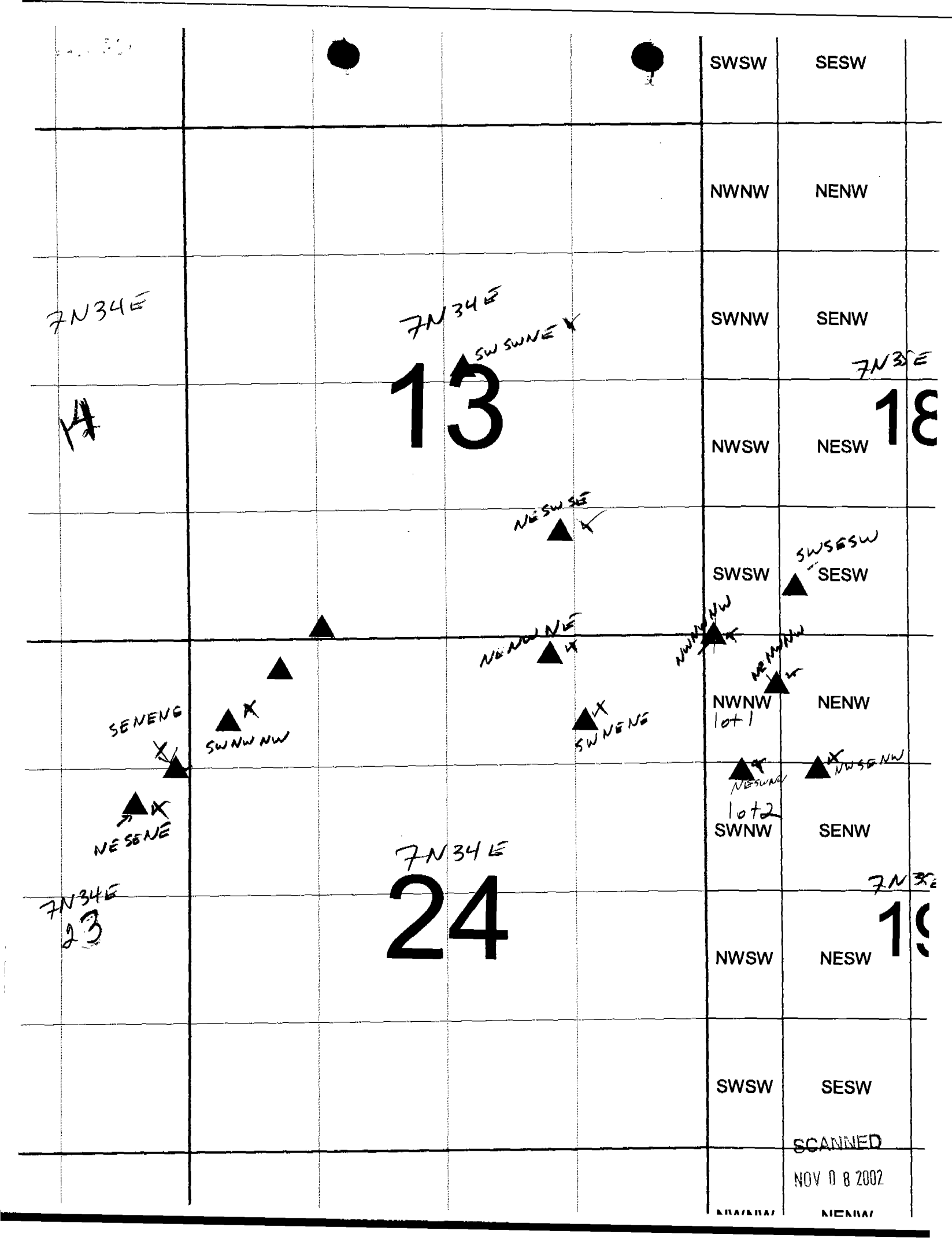
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NE NW NE
NWNW NW
NE NW NW
NWNW
NENW
lot 1
SENENE
SW NW NW
SW NE NE
NW SE NW
NE SW NW
lot 2
SWNW
SENW
NE SE NE
7N34E
24
7N34E
23
NWSW
NESW
SWSW
SESW
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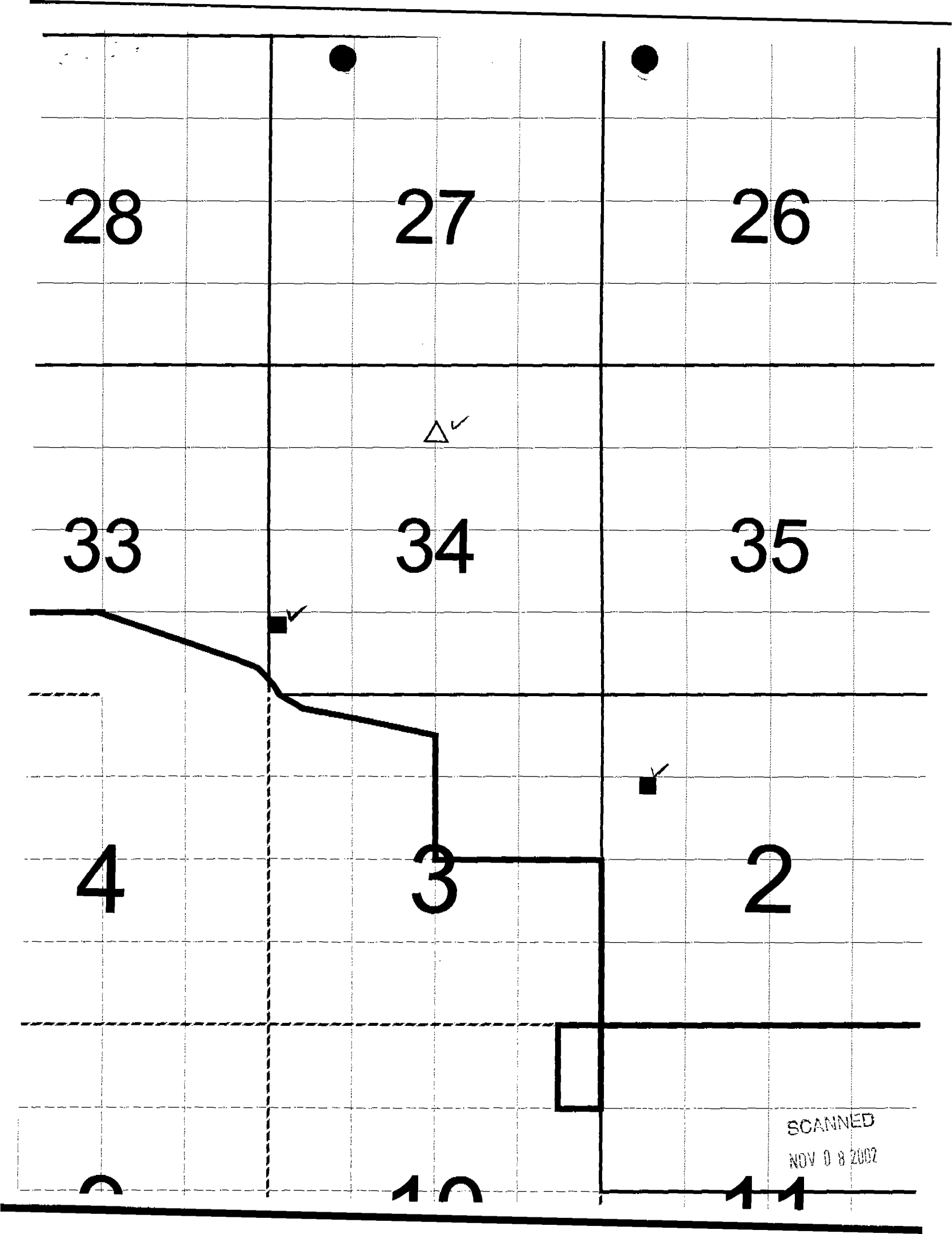
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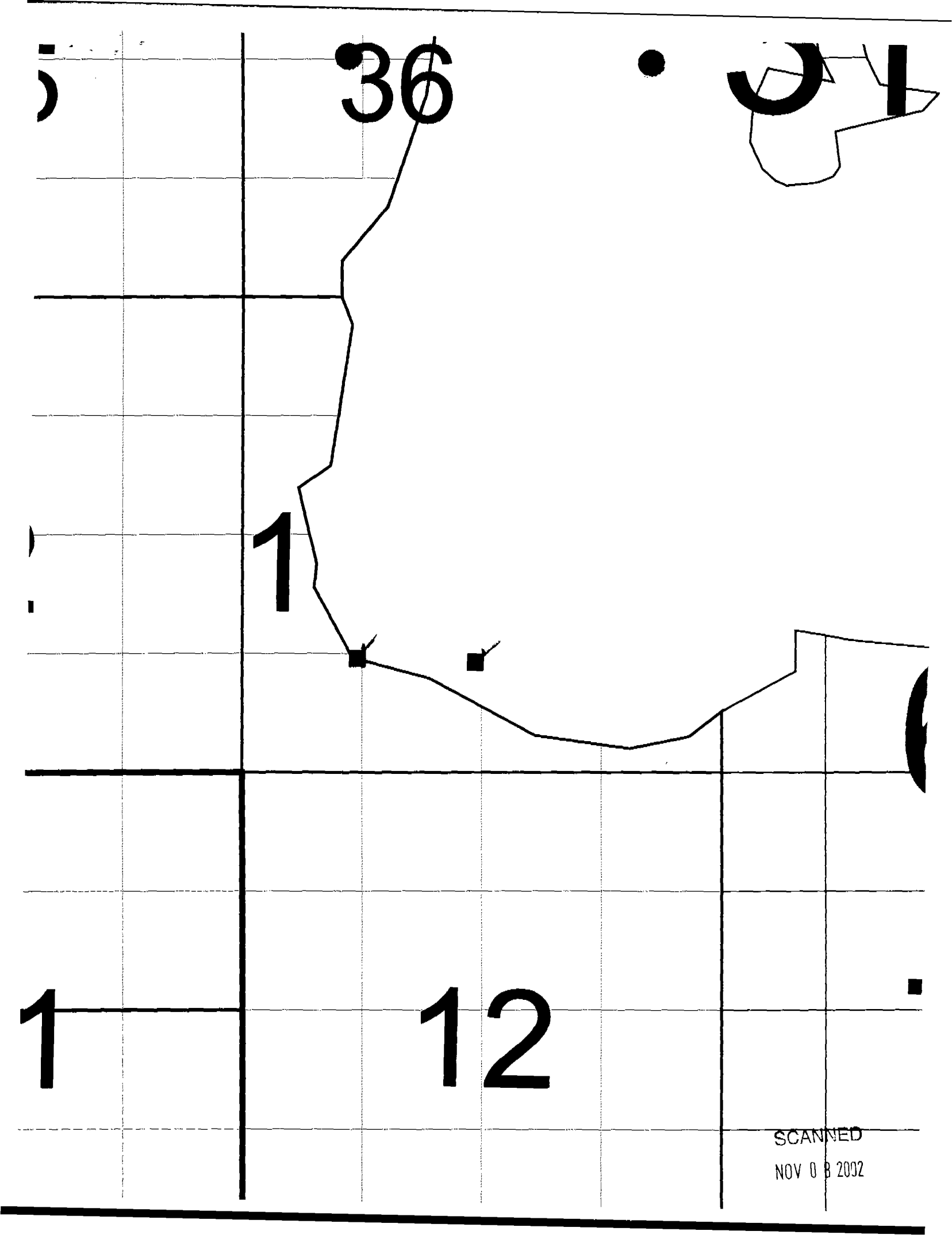

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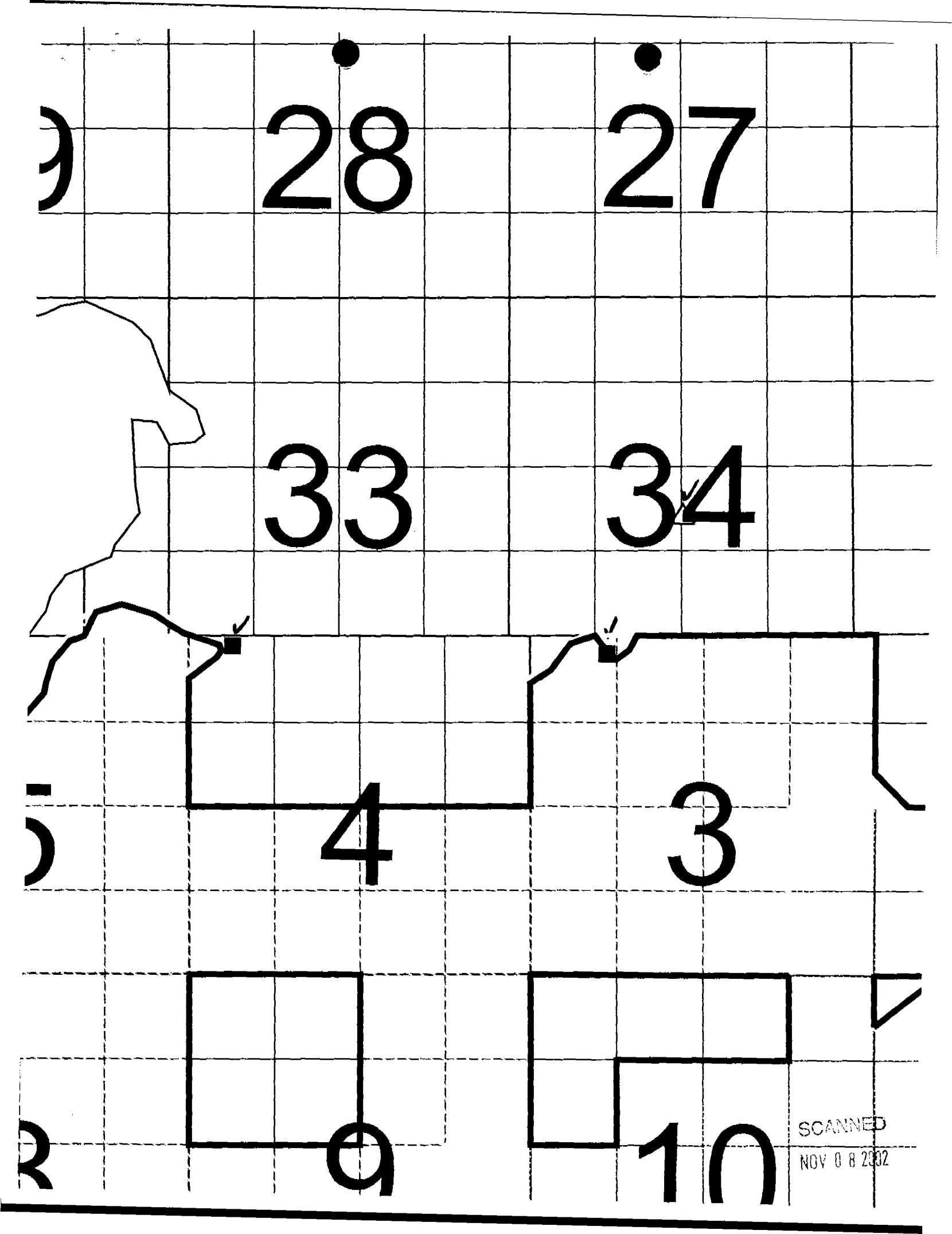

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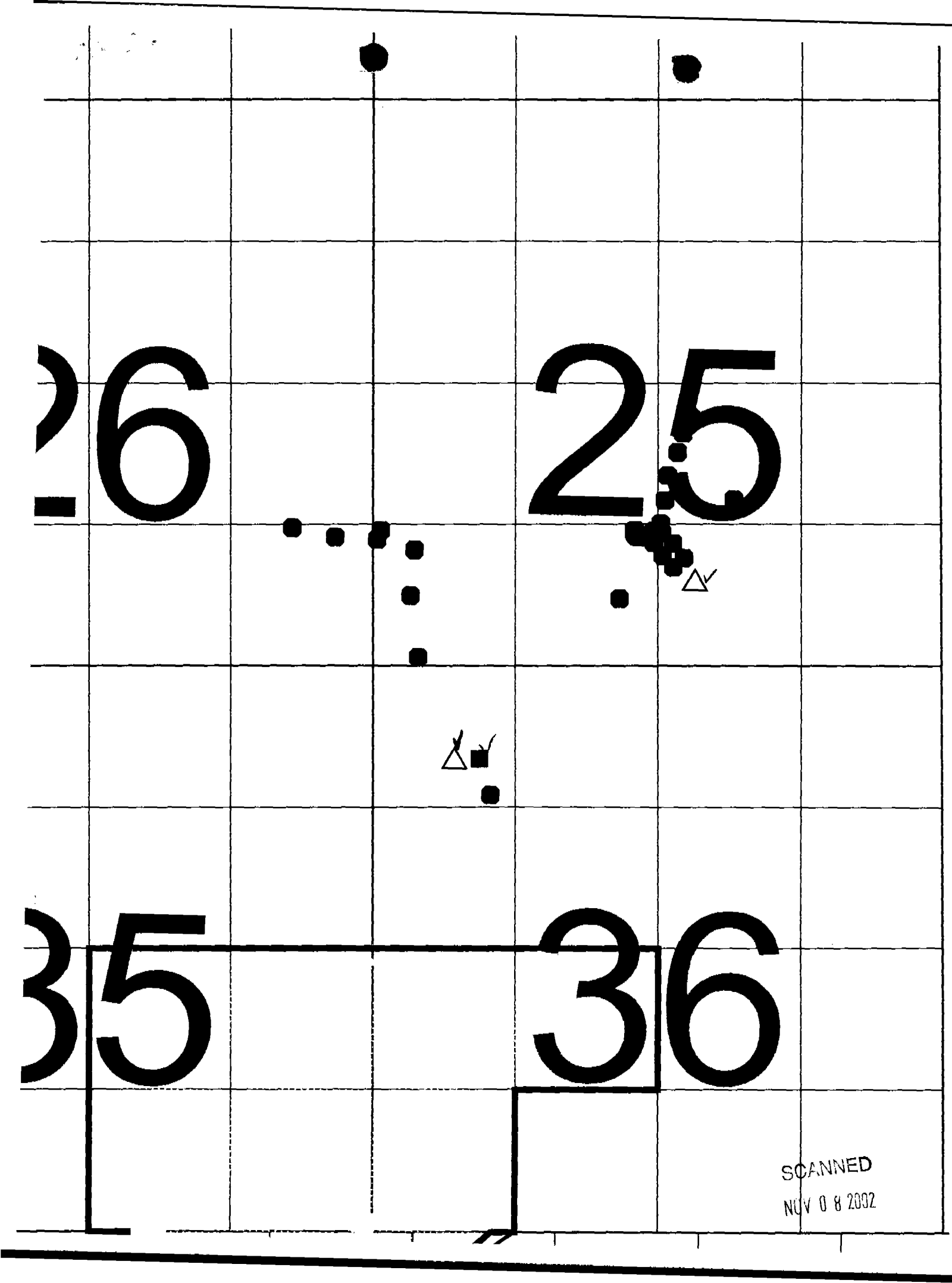

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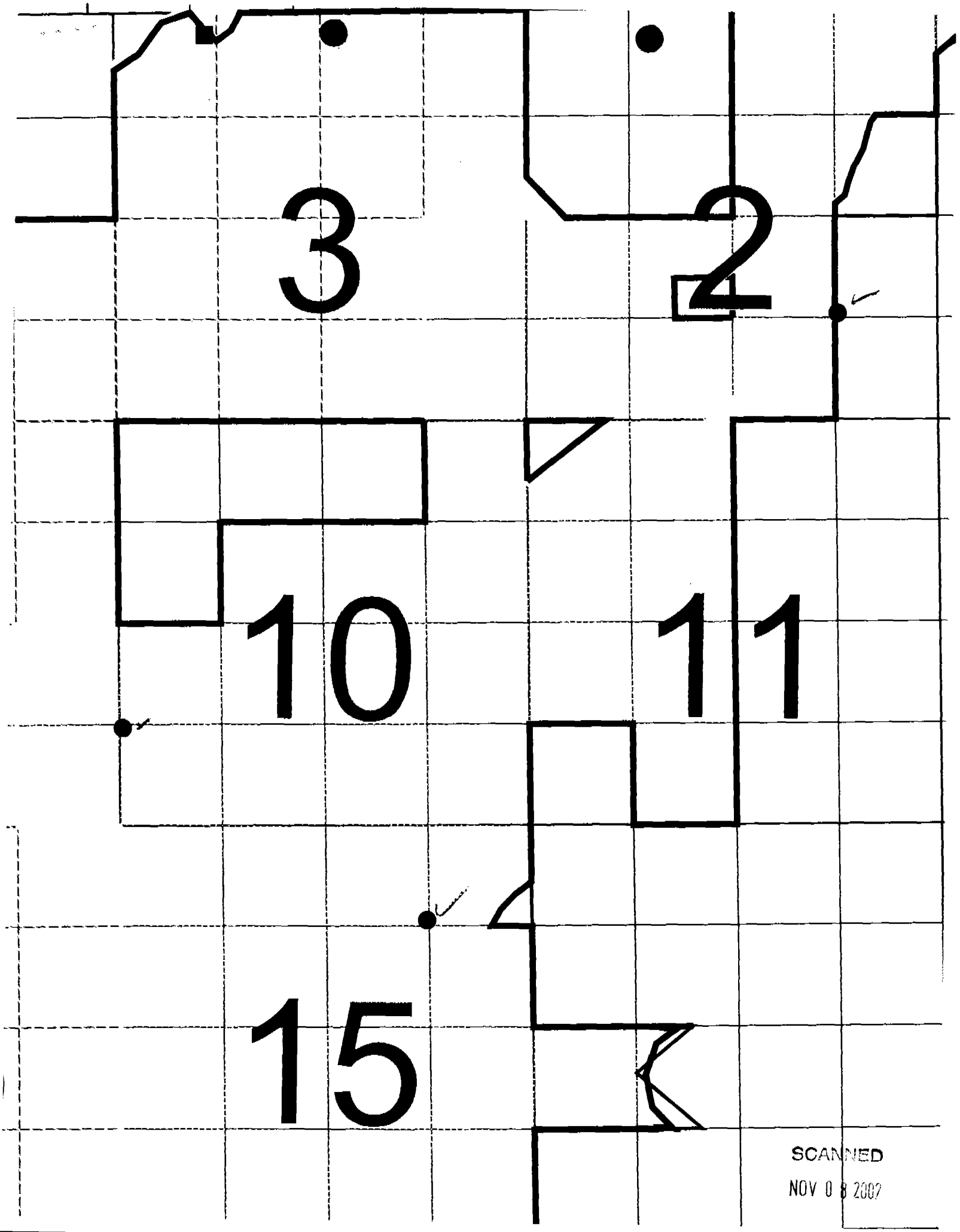

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Contor, Bryce
From: Contor, Bryce
Sent: Monday, October 23, 2000 7:55 AM
To: Carlsen, Ernie; McHugh, Candice
Cc: Music, Vicky; Jones, Harold (Skip)
Subject: Changes to post-1987 transfer 5335

I've finished reviewing this transfer.

1. POU is OK. There is only one substantive difference between the transfer POU and the map negotiated between Mark Larson and the claimants, and the claimants acknowledge the transfer is correct.

2. There are four water rights whose priority date was omitted on the transfer.

3. Water right 31-00328 is approved for 110 cfs on the transfer, but only 100 cfs on the original decree. However, because of combined use limitations this is not as substantial as it seems.

4. The combined use limitations are adequate.

5. The season of use is different than I would have recommended but I think the transferred season is workable.

6. There are significant differences between the transferred list of Points of Diversion and what field inspection shows. The transfer does not recognize the points of injection nor the points of reinjection.

Do I ignore the transfer, ignore the fieldwork, or try to get the transfer amended?

If the transfer needs to be amended, how do I do this and with whom do I work?

Thanks.

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State of Idaho
DEPARTMENT OF WATER RESOURCES
900 N. Skyline Dr., Suite A, Idaho Falls, Idaho 83402-1718 - (208) 525-7161- Fax (208) 525-7177

EASTERN REGION

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

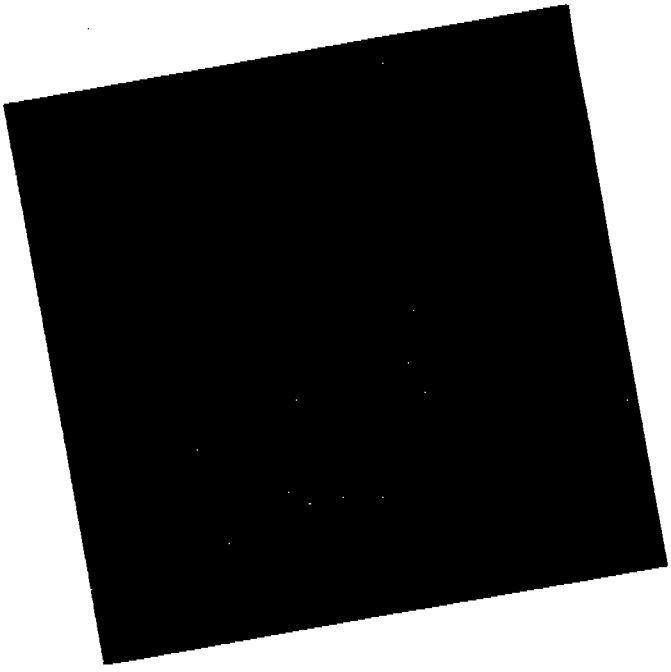
To: Garth Soderquist,
Mud Lake Water Users Inc.
Fr: Bryce Contor
Date: 10/20/2000

Re: Notice of Change of Ownership

Yesterday I forgot to get your signature on the two attached copies of "Notice of Change of Ownership." The surface water claims for Jackett and Holley are not yet in the name of Mud Lake Water Users Inc.

If you could get me a copy of the merger agreement, and sign the notices on the back, I'll get those changed into the correct name.

Thanks,
Bryce A. Contor
Bryce



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State of Idaho
DEPARTMENT OF WATER RESOURCES
900 N. Skyline Dr., Suite A, Idaho Falls, Idaho 83402-1718 - (208) 525-7161- Fax (208) 525-7177

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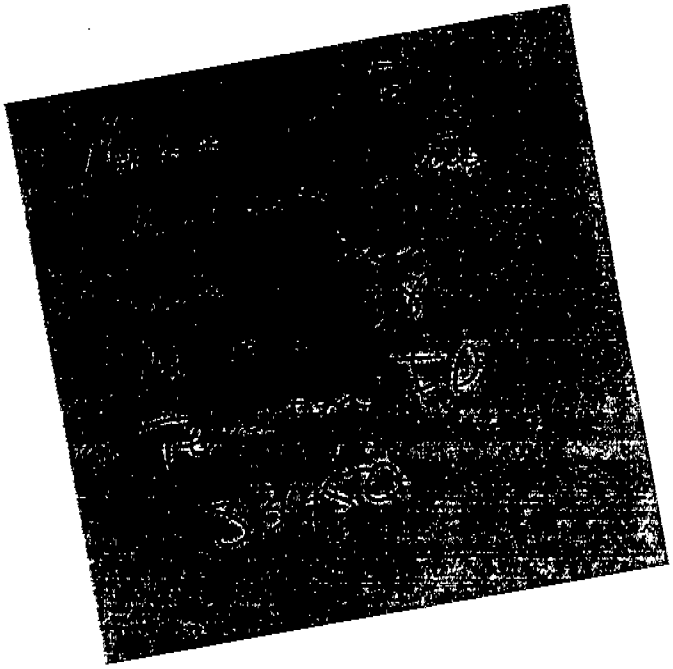

To: Mud Lake Water Users File
Fr: Bryce Contor
Date: 10/18/2000

Re: Phone conversation with Garth Soderquist

1. There is a Domestic and Stock well at North Lake Well Field not on my list. I told Mr. Soderquist that I'm only reviewing the irrigation records but that I would include a note in the file that he had noted the discrepancy.

2. There are 19 holes in the Artesian Basin, 21 originally but two were poured full of concrete right where the discharge structure was built. Most are on the south end near the hook, four or five in the long stretch to the north. I committed to adjust the GIS shape accordingly.

3. The location I had for the Ashcraft/Hoggan sprinkler well is incorrect. Mr. Soderquist believes it should be 1/2 mile due south of where I put it. In reviewing the WMD files and Mr. Ashcraft's map in NWMD file "Sidney and Jana Ashcraft #1 of 3" I find that Mr. Soderquist is correct.

   The well should be T6N R35E Section 2, SWNESE. This is NWMD Record # 300830, which is not active in the district as it is measured and reported by WD 31.

4. I reviewed with Mr. Soderquist the apparent discrepancy between the GW and SW claims in the SWNW of 6N 35E 22. This is the 40 acres south of Mr. Mickelsen's subdivision. Mr. Soderquist indicates that this is not irrigated by Holley or Mud Lake Water Users. This means the GW shape is correct and the SW claims are incorrect.

5. We have an appointment tomorrow AM to discuss the differences between the GW and SW shapes and to discuss the possibility of amending the Jackett SW claims and filing an enlargement for use of Holley SW on a permissible place of use basis.

6. We will also discuss the 320 acres of Van Burtenshaw's in 6N 34E 11 which is claimed for Holley SW but not included on the GW shape.

Note of mtg: BAC 10/19/2000

1) N½ 6N 34E 11 is MLWU, should have GW and Holley SW.

2) Holley, Jackett, Dansie surface shapes are OK.

3) Corrected location of Ashcraft/Hoggan sprinkler well is OK.

4) except for 6N 34E 11, GW shape as prepared by Mark Larson is OK.

5) Wells are now OK.

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PHOTOS OF MUD LAKE WATER USERS WELLS
OCTOBER 9, 2000

SEE ALSO PHOTOS TAKEN IN SUMMER OF 2000 FOR "NORTH LAKE" WELLS AND POINTS OF REDIVERSION

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TRANSFER NO. 5335
WATER RIGHT NO(S). 31-00327/31-00328/31-00329/31-00330
31-00331/31-00332/31-00336B/31-00337B/31-00371/31-02239
31-02265/31-02289/31-02290/31-02297/31-02310/31-02317A
31-02317B/31-02321/31-02341/31-02342/31-02343/31-02344
31-02345/31-07005

LOCATION OF POINT(S) OF DIVERSION:

NWNW , Sec. 24, Township 07N, Range 34E
SWSW , Sec. 13, Township 07N, Range 35E
SESE , Sec. 14, Township 07N, Range 35E (2)
Should be SWSW → ~~Lot~~ 4 (SESW), Sec. 18, Township 07N, Range 35E
Lot 1 (NWNW), Sec. 19, Township 07N, Range 35E (2)
Should be Lot 2 → SWNW , Sec. 19, Township 07N, Range 35E
SENW , Sec. 19, Township 07N, Range 35E
NESE , Sec. 22, Township 07N, Range 35E
NWSW , Sec. 23, Township 07N, Range 35E
SWSW , Sec. 23, Township 07N, Range 35E
SWSW , Sec. 25, Township 07N, Range 35E (2)
SESW , Sec. 25, Township 07N, Range 35E (2)
NWSE , Sec. 25, Township 07N, Range 35E
SESE , Sec. 26, Township 07N, Range 35E (2)
NWNE , Sec. 27, Township 07N, Range 35E
NENW , Sec. 36, Township 07N, Range 35E
JEFFERSON County

PLACE OF USE: IRRIGATION

TWN	RGE	SEC		ACRES		ACRES		ACRES	TOTAL
06N	34E	3	NENW	26	NWNW	35	SWNW	40	
			SENW	40	NESW	40	NWSW	40	
			SWSW	40	SESW	40	NESE	40	
			NWSE	40	SWSE	40	SESE	40	461
		4	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		5	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		7	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NESE	40	NWSE	40	
			SWSE	40	SESE	40			320
		8	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	

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WATER RIGHT NO(S). 31-00327/31-00328/31-00329/31-00330
31-00331/31-00332/31-00336B/31-00337B/31-00371/31-02239
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31-02317B/31-02321/31-02341/31-02342/31-02343/31-02344
31-02345/31-07005

PLACE OF USE: IRRIGATION

TWN	RGE	SEC		ACRES		ACRES		ACRES	TOTAL
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		9	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		10	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	20	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					620
		11	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		13	NWNW	40	SWNW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					400
		14	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NESW	40	NWSW	40	
			SWSW	40	SESW	36	NESE	40	
			NWSE	40	SWSE	27	SESE	37	460
		15	NENW	40	NWNW	40	SWNW	40	
			SENW	40	NESW	40	NWSW	40	
			SWSW	40	SESW	36	NESE	40	
			NWSE	40	SWSE	40	SESE	40	476
		16	NENE	40	NWNE	40	SWNE	40	
			SENE	25	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					625
		17	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	

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31-02317B/31-02321/31-02341/31-02342/31-02343/31-02344
31-02345/31-07005

PLACE OF USE: IRRIGATION

TWN	RGE	SEC		ACRES		ACRES		ACRES	TOTAL
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	20	NWSE	40	SWSE	10	
			SESE	10					560
		20	NENE	30	NWNE	35	SWNE	40	
			SENE	40	NENW	40	NWNW	30	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					615
		21	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	25	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					625
		22	NENE	20	NWNE	20	SWNE	40	
			SENE	40	NENW	36	NWNW	20	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					576
		23	NENE	15	NWNE	40	SWNE	40	
			SENE	40	NENW	35	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					610
		24	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	10	NWNW	30	
			SWNW	40	SENW	30	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					590
		25	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		26	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	

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31-02317B/31-02321/31-02341/31-02342/31-02343/31-02344
31-02345/31-07005

PLACE OF USE: IRRIGATION

TWN	RGE	SEC		ACRES		ACRES		ACRES	TOTAL
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		27	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		28	NENE	40	SWNE	40	SENE	40	
			NENW	40	NWNW	40	SWNW	40	
			SENW	40	NESW	40	NWSW	40	
			SWSW	40	SESW	40	NESE	40	
			NWSE	40	SWSE	40	SESE	40	600
		29	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		34	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	SENW	40	
			NESW	40	NWSW	40	SWSW	40	
			SESW	40	NESE	40	NWSE	40	
			SWSE	40	SESE	40			560
		35	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
	35E	1	NWNW	4					4
		2	NENE	40	NWNE	40	SWNE	40	
			SENE	8	NESW	32	NWSW	40	
			SWSW	40	SESW	38	NWSE	40	
			SWSE	40					358
		3	Lot 1(NENE)	41.9	Lot 2(NWNE)	41.7	SWNE	40	
			SENE	40	Lot 3(NENW)	41.5	Lot 4(NWNW)	35	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	

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PLACE OF USE: IRRIGATION

TWN	RGE	SEC		ACRES		ACRES		ACRES	TOTAL
			SESE	40					640.1
		4	Lot 4(NWNW)	7		NESW	40	NWSW 40	
			SWSW	40		SESW	40	NESE 40	
			NWSE	40		SWSE	40	SESE 40	327
		5	Lot 1(NENE)	41.2	Lot	2(NWNE) 38		SWNE 40	
			SENE	40		NESW	40	SESW 40	
			NESE	40		NWSE	40	SWSE 40	
			SESE	40					399.2
		8	NENE	40		NWNE	40	SWNE 40	
			SENE	40		NENW	40	NWNW 40	
			SWNW	40		SENW	40	NESW 40	
			NWSW	40		SWSW	40	SESW 40	
			NESE	40		NWSE	40	SWSE 40	
			SESE	40					640
		9	NENE	40		NWNE	40	SWNE 40	
			SENE	40		NESW	40	NWSW 40	
			SWSW	40		SESW	40	NESE 40	
			NWSE	40		SWSE	40	SESE 40	480
		10	NENE	40		SWNE	40	SENE 40	
			SENW	40		NESW	40	NWSW 40	
			SWSW	40		SESW	40	NESE 40	
			NWSE	40		SWSE	40	SESE 40	480
		11	NENW	40		NWNW	30	SWNW 40	
			SENW	40		NESW	40	NWSW 40	
			SESW	40					270
		14	NESW	10		NWSW	40		50
		15	NENE	34		NWNE	40	SWNE 40	
			SENE	40		NENW	40	NWNW 40	
			SWNW	40		SENW	40	NESW 40	
			NWSW	40		SWSW	40	SESW 40	
			NESE	40		NWSE	40	SWSE 40	
			SESE	40					634
		16	NENE	40		NWNE	40	SWNE 40	
			SENE	40		NENW	40	NWNW 40	
			SWNW	40		SENW	40	NESW 40	
			NWSW	40		SWSW	40	SESW 40	
			NESE	40		NWSE	40	SWSE 40	
			SESE	40					640
		17	NENE	40		NWNE	40	SWNE 40	
			SENE	40		NENW	40	NWNW 40	
			SWNW	40		SENW	40	NESW 40	

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PLACE OF USE: IRRIGATION

TWN	RGE	SEC		ACRES		ACRES		ACRES	TOTAL
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		18	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		19	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		20	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
		22	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	SENW	40	
			NESW	40	NESE	40	NWSE	40	
			SWSE	40	SESE	40			440
		29	NENW	40	NWNW	40	SWNW	40	
			SENW	40	NESW	40	NWSW	40	
			SWSW	10	SESW	40			290
		30	NENE	40	NWNE	40	SWNE	40	
			SENE	40	NENW	40	NWNW	40	
			SWNW	40	SENW	40	NESW	40	
			NWSW	40	SWSW	40	SESW	40	
			NESE	40	NWSE	40	SWSE	40	
			SESE	40					640
07N	34E	32		SESW 40		SWSE 40		SESE 40	120
		33		NWSW 10		SWSW 20		SESW 40	
	35E	32	Lot	8(SWSE) 2	Lot	7(SESE) 18			20
		33		SWSW 1					1
		35		NESE 38		NWSE 34		SWSE 34	
				SESE 38					144
		36		NESW 40		NWSW 40		SWSW 38	118

Total number of acres irrigated: * 24261.3

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FEB 1 1 1993
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NOV 0 8 2002

TRANSFER NO. 5335
WATER RIGHT NO(S). 31-00327/31-00328/31-00329/31-00330
31-00331/31-00332/31-00336B/31-00337B/31-00371/31-02239
31-02265/31-02289/31-02290/31-02297/31-02310/31-02317A
31-02317B/31-02321/31-02341/31-02342/31-02343/31-02344
31-02345/31-07005

CONDITIONS OF APPROVAL AND REMARKS

1. Use of water under this water right will be regulated by the watermaster of State Water District No. 31.
2. The right holder shall use the full allotment of appurtenant surface water rights in conjunction with groundwater diverted under this right and shall only divert groundwater under this right when water from the appurtenant surface water rights cannot be delivered to the right holder.
3. This right shall not be used if the surface water right(s) appurtenant to the place of use is sold, transferred, leased or used on any other place of use.
4. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 3.5 afa per acre at the field headgate for irrigation of the lands above.
5. The right holder shall accomplish the change authorized by this transfer within one (1) year of the date of this approval.
6. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
7. Approval of this transfer does not preclude the opportunity for review of the validity of the water right(s) in the ongoing Snake River Basin Adjudication.
8. Prior to diversion of water under this approval, the right holder shall provide a means of measurement and lockable controlling works from all authorized points of diversion that is acceptable to the watermaster and will provide suitable control of the diversions.

*** 9. The total instantaneous diversion of water from all points of diversion under Transfer 5335 shall not exceed 503.21 cfs during the irrigation season.

10. Approval of Transfer 5335 does not grant any right-of-way or easement for use of a delivery system owned by person(s) other than the right owner.

** 11. Rights 31-00327, 31-00328, 31-00329 and 31-00330 when combined shall not exceed a total diversion rate of 200.00 cfs during the irrigation season, and may be diverted at their full authorized rate of diversion into Mud Lake for storage purposes during the non-irrigation season.

* 12. Right 31-02289 is limited to irrigation of 160.0 acres in the place of use described above in a single irrigation season.

* 13. Right 31-02290 is limited to irrigation of 240.0 acres in the place of use described above in a single irrigation season.

* 14. Right 31-02297 is limited to irrigation of 340.0 acres in the place of use described above in a single irrigation season.

SCANNED
NOV 0 8 2002

TRANSFER NO. 5335
WATER RIGHT NO(S). 31-00327/31-00328/31-00329/31-00330
31-00331/31-00332/31-00336B/31-00337B/31-00371/31-02239
31-02265/31-02289/31-02290/31-02297/31-02310/31-02317A
31-02317B/31-02321/31-02341/31-02342/31-02343/31-02344
31-02345/31-07005

CONDITIONS OF APPROVAL AND REMARKS

* 15. Right 31-02310 is limited to irrigation of 290.0 acres in the place of use described above in a single irrigation season.

* 16. Right 31-02317A is limited to irrigation of 404.0 acres in the place of use described above in a single irrigation season.

* 17. Right 31-02317B is limited to irrigation of 95.0 acres in the place of use described above in a single irrigation season.

* 18. Right 31-02321 is limited to irrigation of 96.0 acres in the place of use described above in a single irrigation season.

* 19. Rights 31-00336B, 31-00337B, 31-02289, 31-02290, 31-02297, 31-02310, 31-02317A, 31-02317B and 31-02321 when combined shall not exceed the irrigation of 3107.2 acres in the place of use described above in a single irrigation season.

* 20. Right 31-02239 is limited to the irrigation of 13,480.0 acres in the place of use described above in a single irrigation season.

* 21. Right 31-07005 is limited to the irrigation of 17,088.0 acres in the place of use described above in a single irrigation season.

* 22. Rights 31-02239, 31-02265, 31-02341, 31-02342, 31-02343, 31-02344, 31-02345 and 31-07005 when combined shall not exceed the irrigation of 17,240.0 acres in the place of use described above in a single irrigation season.

23. Two points of diversion are located within SESE, S14, T07N, R35E.

24. Two points of diversion are located within Lot 1(NWNW), S19, T07N, R35E.

25. Five points of diversion are located within SWSW, S25, T07N, R35E.

26. Seven points of diversion are located within NWSE, S25, T07N, R35E.

27. Two points of diversion are located within SESE, S26, T07N, R35E.

Dated this 8th day of February, 1999.

L. Glen Saxton
Chief, Water Allocation Bureau

MICROFILMED
FEB 11 1999

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NOV 0 3 2002

Mud Lake Water Users Wells

Field Inspection/GPS

	T	R	S	Lot	QQQ	QQ	Q	Notes
1	6N	35E	2		SW	NE	SE	Sid Ashcraft Sprinkler Well
2	6N	35E	10		NW	SW	SW	Kirk Egbert Sprinkler Well
3	6N	35E	15		SE	NW	NE	Bybee Sprinkler Well
4	7N	34E	13		SW	SW	NE	North Lake Wells
5	7N	34E	13		NE	SW	SE	North Lake Wells
6	7N	34E	23		SE	NE	NE	North Lake Wells
7	7N	34E	23		NE	SE	NE	North Lake Wells
8	7N	34E	24		SW	NE	NE	North Lake Wells
9	7N	34E	24		NE	NW	NE	North Lake Wells
10	7N	34E	24		SW	NW	NW	North Lake Wells
11	7N	35E	13		SW	SW	SW	Buck Springs Well
12	7N	35E	13		SW	SW	SW	Buck Springs Well
13	7N	35E	13		SW	SW	SW	Buck Springs Well
14	7N	35E	18		SW	SE	SW	North Lake Wells
15	7N	35E	19	1	NE	NW	NW	North Lake Wells
16	7N	35E	19	1	NW	NW	NW	North Lake Wells
17	7N	35E	19		NW	SE	NW	North Lake Wells
18	7N	35E	19	2	NE	SW	NW	North Lake Wells
19	7N	35E	22		SE	NE	SE	Marty/Jackett
20	7N	35E	23		SW	NW	SW	Marty/Jackett
21	7N	35E	25		NW	NW	SE	Artesian Well - Bybee Field
22	7N	35E	25		NW	NW	SE	Artesian Well - Bybee Field
23	7N	35E	25		NW	NW	SE	Artesian Well - Bybee Field
24	7N	35E	25		SW	NW	SE	Artesian Well - Bybee Field
25	7N	35E	25		SW	NW	SE	Artesian Well - Bybee Field
26	7N	35E	25		SW	NW	SE	Artesian Well - Bybee Field
27	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
28	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
29	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
30	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
31	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
32	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
33	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
34	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
35	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
36	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
37	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
38	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
39	7N	35E	25		NE	SE	SW	Artesian Well - Bybee Field
40	7N	35E	25		NE	SE	SW	Pumped Well - Bybee Field
41	7N	35E	25		SE	SE	SW	Pumped Well - Bybee Field
42	7N	35E	25		NW	SW	SW	Pumped Well - Holley Field
43	7N	35E	25		NW	SW	SW	Pumped Well - Holley Field
44	7N	35E	25		NW	SW	SW	Pumped Well - Holley Field

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NOV 0 8 2007

45	7N	35E	25		SW	SW	SW	Pumped Well - Holley Field					
46	7N	35E	25		SW	SW	SW	Pumped Well - Holley Field					
47	7N	35E	25		SE	NW	SE	Pumped Well - Bybee Field					
48	7N	35E	25		NW	SW	SE	Pumped Well - Bybee Field					
49	7N	35E	25		NW	SW	SE	Pumped Well - Bybee Field					
50	7N	35E	25		NW	SW	SE	Pumped Well - Bybee Field					
51	7N	35E	25		NW	SW	SE	Pumped Well - Bybee Field					
52	7N	35E	25		NW	SW	SE	Pumped Well - Bybee Field					
53	7N	35E	26		NE	SE	SE	Pumped Well - Holley Field					
54	7N	35E	26		NW	SE	SE	Pumped Well - Holley Field					
55	7N	35E	36		SW	NW	NW	Pumped Well - Holley Field					
56	6N	34E	1		NE	SW	SW	Point of Rediversion - Van Burtenshaw Pump Channel					
57	6N	34E	1		NE	SE	SW	Point of Rediversion - Owsley Main Lift Channel					
58	6N	34E	2		NE	SW	NW	Point of Rediversion - Dave Burtenshaw Pump Channel					
59	6N	35E	4		NE	NW	NW	Point of Rediversion - Jackett West Lift					
60	6N	35E	3		NE	NW	NW	Point of Rediversion - Jackett Main Lift Channel					
61	7N	34E	4		NW	SW	SW	Point of Rediversion - Sparks Lift Channel					
62	7N	35E	36		SE	NW	NW	Point of Rediversion - Holley Camas Creek Pump					
63	7N	34E	34		SW	NW	NE	Point of Injection - North Lake Canal					
64	7N	35E	34		SW	NW	SE	Point of Injection - Independent/Jackett Ditch					
65	7N	35E	36		SE	NW	NW	Point of Injection - Holley Wells Bypass Ditch					
66	7N	35E	25		NW	SW	SE	Point of Injection - Bybee Well Field					
	All of the "Pumped Wells" are located by GPS.												
	GPS and USGS topo were used to define the extent of the Artesian Basin, and wells												
	were located within this extent by interview with Garth Soderquist of MLWU.												
	6N 35E 10 "Sprinkler Well" was located by GPS. Others located												
	by legal description of older transfers which authorized these wells,												
	and field inspection by North Water Measurement District.												
	Points of Injection and Rediversion located using GIS from aerial photography												
	and field inspection.												

SCANNED
NOV 0 8 2.52

Contor, Bryce
From: McHugh, Candice
Sent: Monday, October 30, 2000 3:04 PM
To: Contor, Bryce
Cc: Carlsen, Ernie
Subject: T5335

Bryce --

I suggest that you try to get the transfer amended. I believe the process is to write a memo to Dave Tuthill explaining the problems with the transfer and requesting they be fixed and why. He will then take it to allocations. Let me know what happens. Thanks

Candice

SCANNED
NOV 0 8 2002

Mud Lake Water Users Wells

Field Inspection/GPS

	T	R	S	Lot	QQQ	QQ	Q	Notes
1	6N	35E	2		SW	NE	SE	One Sprinkler Well
2	6N	35E	10		NW	SW	SW	One Sprinkler Well
3	6N	35E	15		SE	NW	NE	One Sprinkler Well
4	7N	34E	13		SW	SW	NE	One Pumped Well
5	7N	34E	13		NE	SW	SE	One Pumped Well
6	7N	34E	23		SE	NE	NE	One Pumped Well
7	7N	34E	23		NE	SE	NE	One Pumped Well
8	7N	34E	24		SW	NE	NE	One Pumped Well
9	7N	34E	24		NE	NW	NE	One Pumped Well
10	7N	34E	24		SW	NW	NW	One Pumped Well
11	7N	35E	13		SW	SW	SW	Three Pumped Wells
12	7N	35E	13		SW	SW	SW	Three Pumped Wells
13	7N	35E	13		SW	SW	SW	Three Pumped Wells
14	7N	35E	18		SW	SE	SW	One Pumped Well
15	7N	35E	19	1	NE	NW	NW	One Pumped Well
16	7N	35E	19	1	NW	NW	NW	One Pumped Well
17	7N	35E	19		NW	SE	NW	One Pumped Well
18	7N	35E	19	2	NE	SW	NW	One Pumped Well
19	7N	35E	22		SE	NE	SE	One Pumped Well
20	7N	35E	23		SW	NW	SW	One Pumped Well
21	7N	35E	25		NW	NW	SE	Three Artesian Wells
22	7N	35E	25		NW	NW	SE	Three Artesian Wells
23	7N	35E	25		NW	NW	SE	Three Artesian Wells
24	7N	35E	25		SW	NW	SE	Three Artesian Wells
25	7N	35E	25		SW	NW	SE	Three Artesian Wells
26	7N	35E	25		SW	NW	SE	Three Artesian Wells
27	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
28	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
29	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
30	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
31	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
32	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
33	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
34	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
35	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
36	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
37	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
38	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
39	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
40	7N	35E	25		NE	SE	SW	One Pumped and Thirteen Artesian Wells
41	7N	35E	25		SE	SE	SW	One Pumped Well
42	7N	35E	25		NW	SW	SW	Three Pumped Wells
43	7N	35E	25		NW	SW	SW	Three Pumped Wells
44	7N	35E	25		NW	SW	SW	Three Pumped Wells

COMBINED
NOV 0 8 2002

45	7N	35E	25		SW	SW	SW	Two Pumped Wells					
46	7N	35E	25		SW	SW	SW	Two Pumped Wells					
47	7N	35E	25		SE	NW	SE	One Pumped Well					
48	7N	35E	25		NW	SW	SE	Five Pumped Wells					
49	7N	35E	25		NW	SW	SE	Five Pumped Wells					
50	7N	35E	25		NW	SW	SE	Five Pumped Wells					
51	7N	35E	25		NW	SW	SE	Five Pumped Wells					
52	7N	35E	25		NW	SW	SE	Five Pumped Wells					
53	7N	35E	26		NE	SE	SE	One Pumped Well					
54	7N	35E	26		NW	SE	SE	One Pumped Well					
55	7N	35E	36		SW	NW	NW	One Pumped Well					
56	6N	34E	1		NE	SW	SW	Point of Rediversion - Van Burtenshaw Pump Channel					
57	6N	34E	1		NE	SE	SW	Point of Rediversion - Owsley Main Lift Channel					
58	6N	34E	2		NE	SW	NW	Point of Rediversion - Dave Burtenshaw Pump Channel					
59	6N	35E	4		NE	NW	NW	Point of Rediversion - Jackett West Lift					
60	6N	35E	3		NE	NW	NW	Point of Rediversion - Jackett Main Lift Channel					
61	7N	34E	4		NW	SW	SW	Point of Rediversion - Sparks Lift Channel					
62	7N	35E	36		SE	NW	NW	Point of Rediversion - Holley Camas Creek Pump					
63	7N	34E	34		SW	NW	NE	Point of Injection - North Lake Canal					
64	7N	35E	34		SW	NW	SE	Point of Injection - Independent/Jackett Ditch					
65	7N	35E	36		SE	NW	NW	Point of Injection - Holley Wells Bypass Ditch					
66	7N	35E	25		NW	SW	SE	Point of Injection - Bybee Well Field					

All of the "Pumped Wells" are located by GPS.

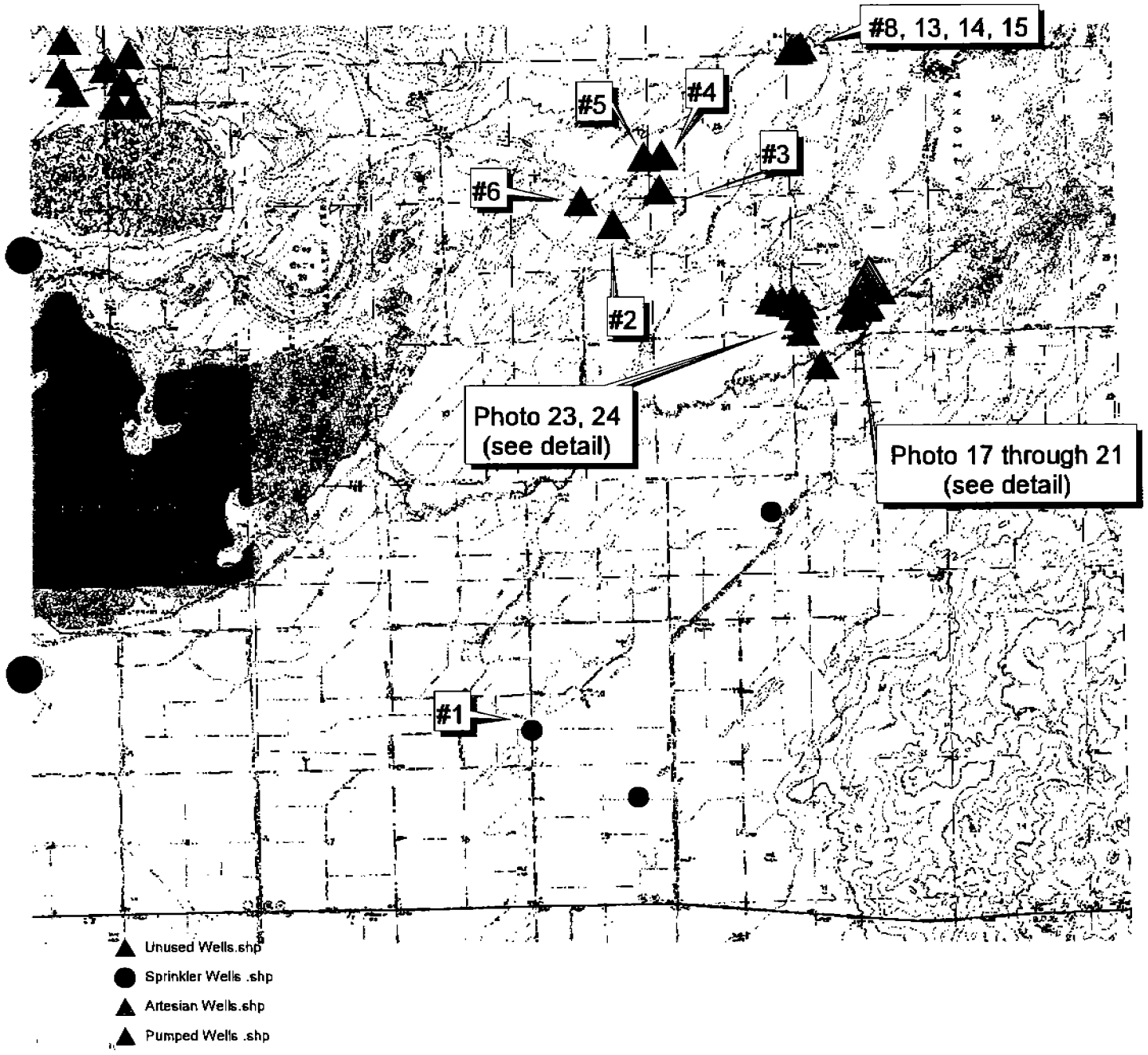
GPS was used to define the extent of the Artesian Basin, and wells were located within this extent by interview with Garth Soderquist.

6N 35E 10 "Sprinkler Well" was located by GPS. Others located by legal description of older transfers which authorized these wells.

Points of Injection and Rediversion located visually on GIS from aerial photography.

SCANNED
NOV 0 8 2007

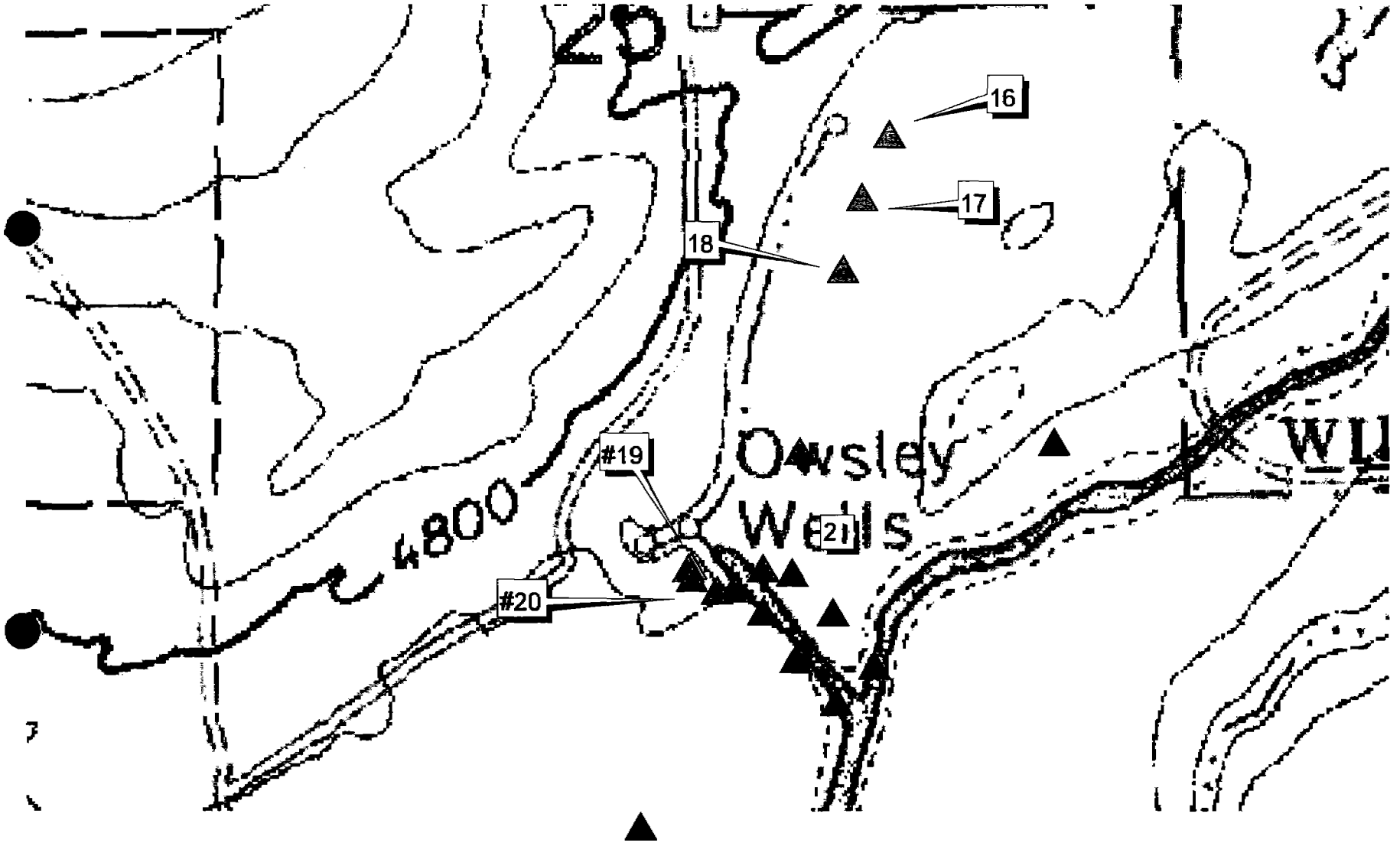
Mud Lake Water Users Wells
October, 2000



SCANNED
NOV 0 8 2002

Mud Lake Water Users Wells
October, 2000

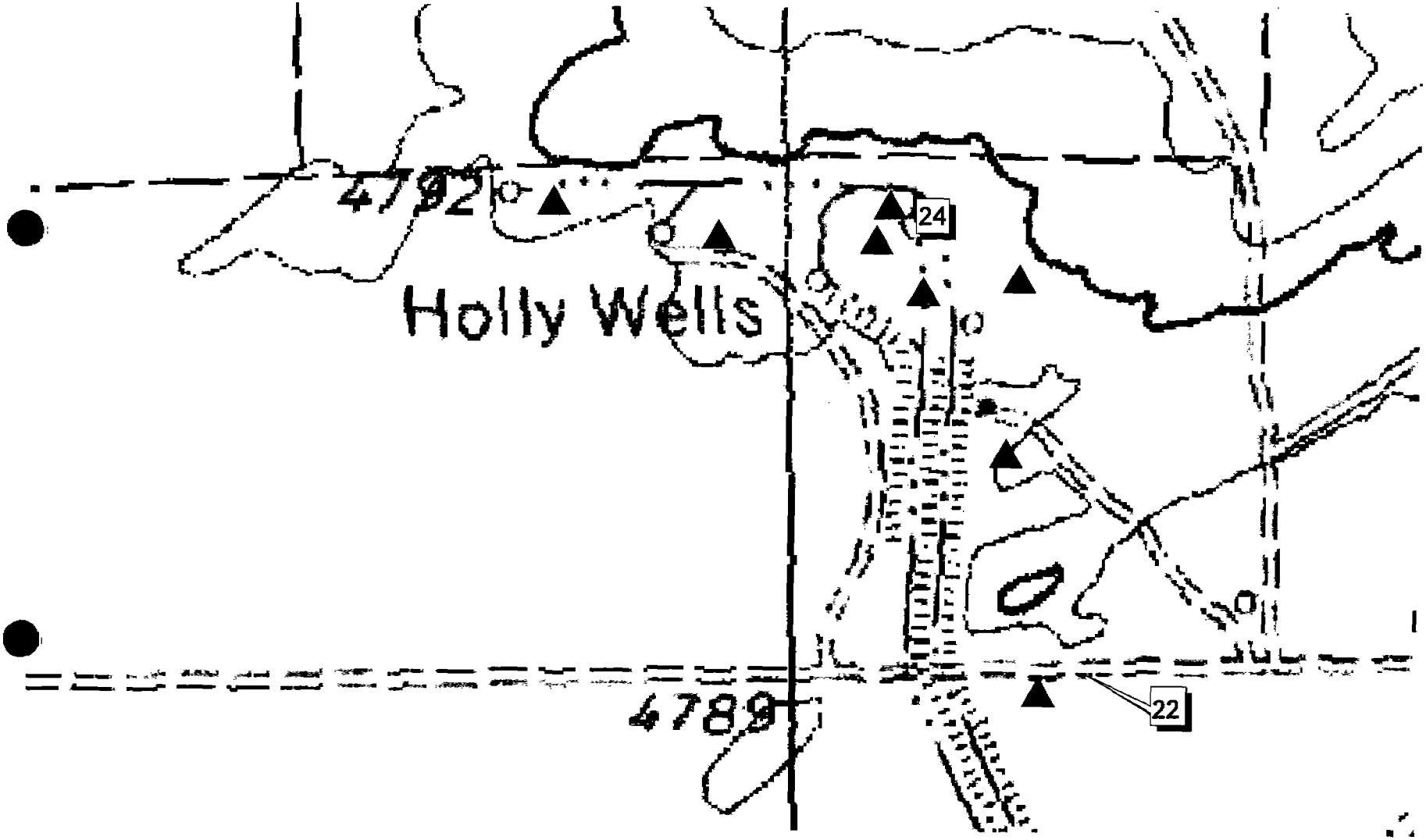
SCANNED
NOV 0 8 2002



- Unused Wells.shp
- Sprinkler Wells .shp
- Artesian Wells.shp
- Pumped Wells .shp

Mud Lake Water Users Wells
October, 2000

SCANNED
NOV 0 8 2002



- Unused Wells.shp
- Sprinkler Wells .shp
- Artesian Wells.shp
- Pumped Wells .shp

Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

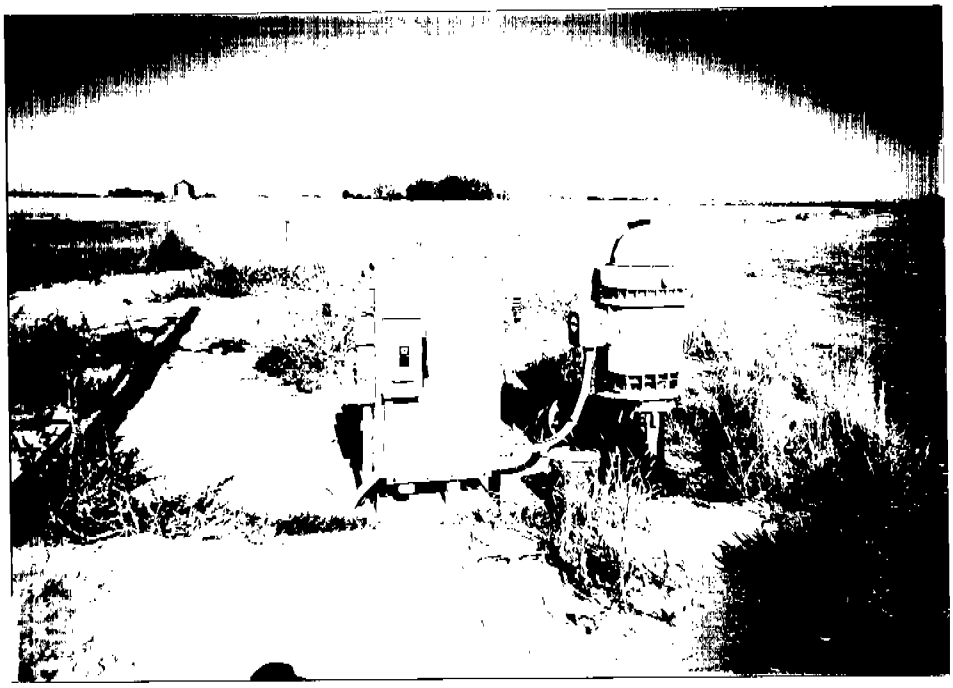
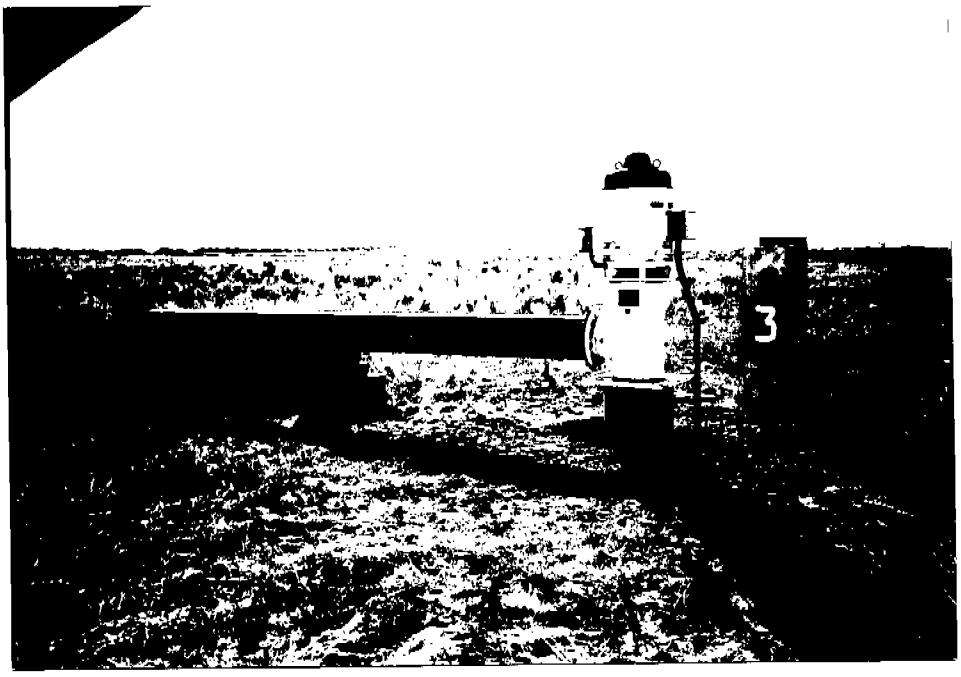


Photo #1, Kirk Egbert Well (#1 on map), looking northeast.

Marty/Jackett #1 (Photo #2 on map). Note that panel is marked "#4." "#1" is from map at MLWU headquarters

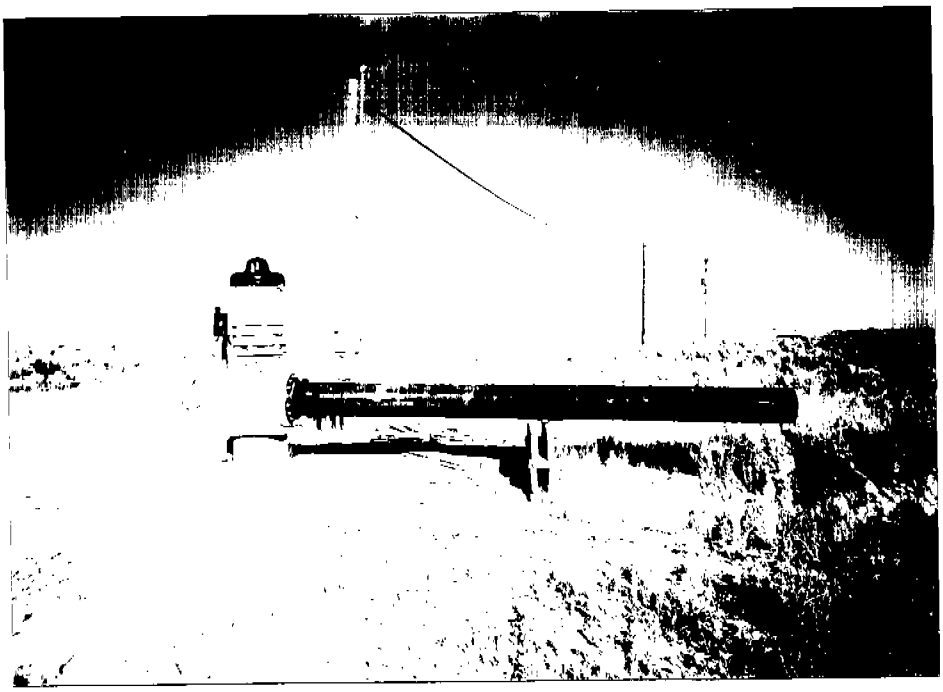
Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Marty/Jackett Well #2 (Photo #3). Note that panel is marked "#3." "#2" is from map at MLWU headquarters.

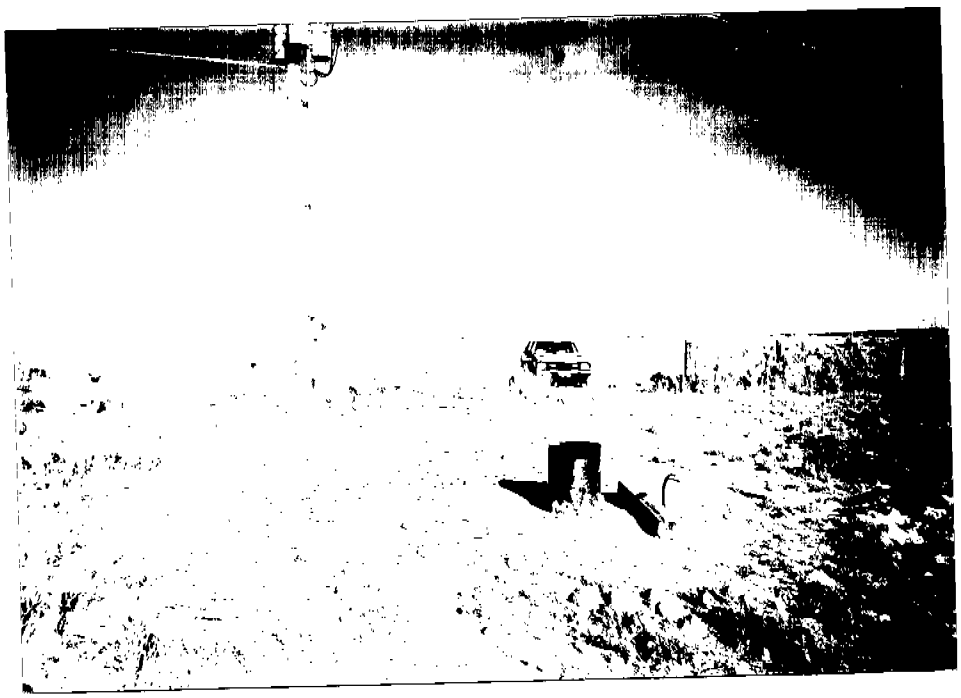


Marty/Jacket #3 (Photo #4).

Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.



Marty/Jackett #4 (photo #5).



Marty/Jackett #5 (photo #6)

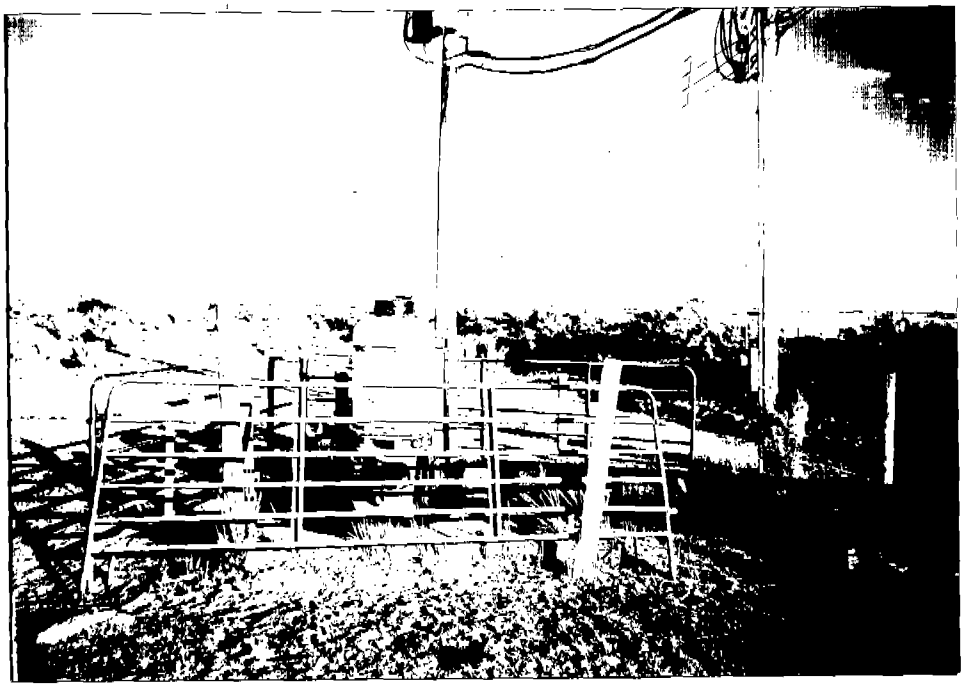
Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Check Structure at Buck Springs (photo #8)[1]

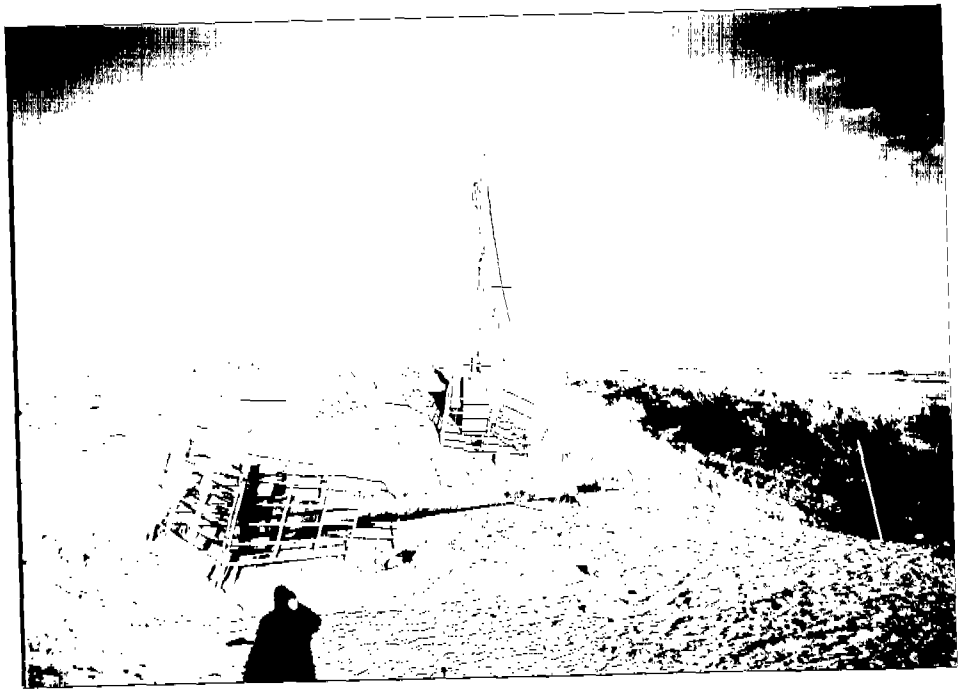
Buck Springs "East" Well (photo #13).

[1] Photos 7, 9-12 are Independent Water Users diversions.

Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

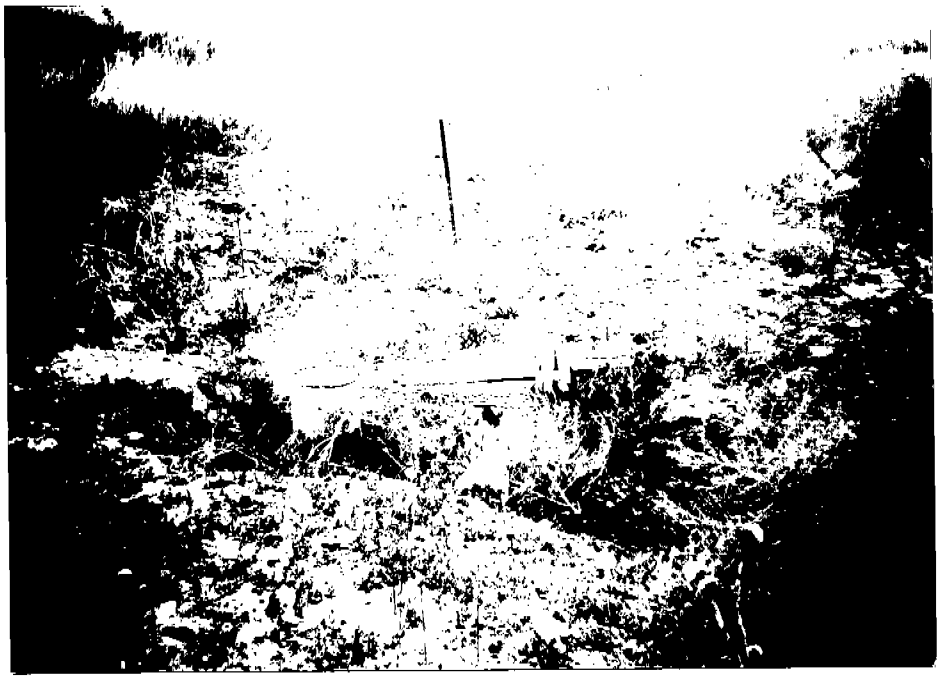


Buck Springs Well #2 (Photo #14).



Buck Springs Well #1 (Photo #15).

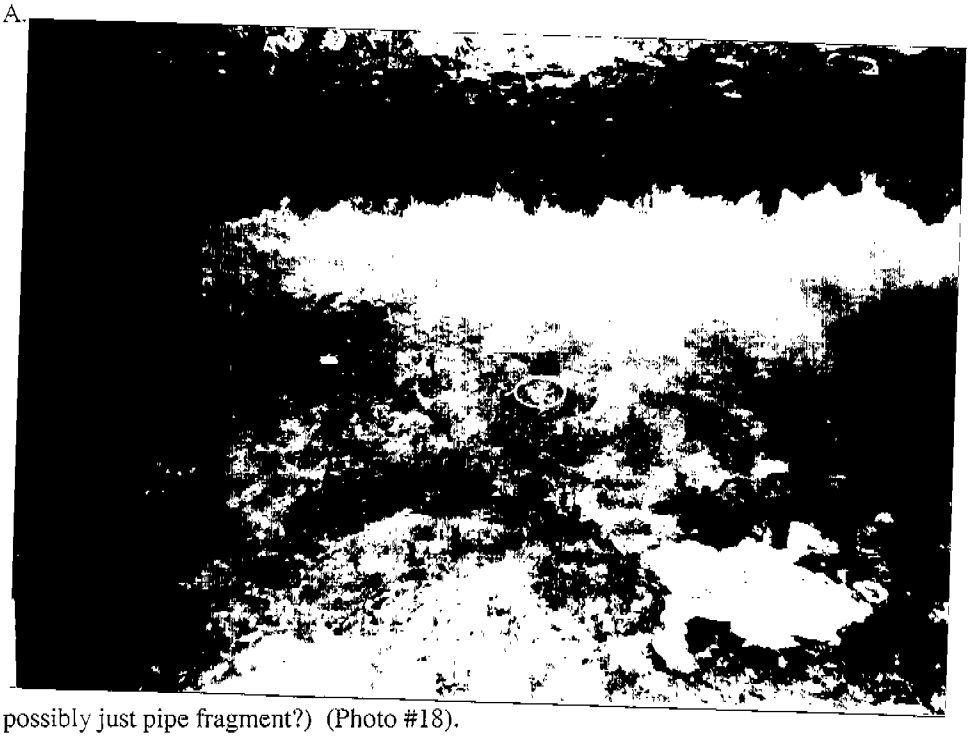
Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.



Bybee Artesian at north end of artesian basin (Photo #16).

Bybee artesian well (Photo #17).

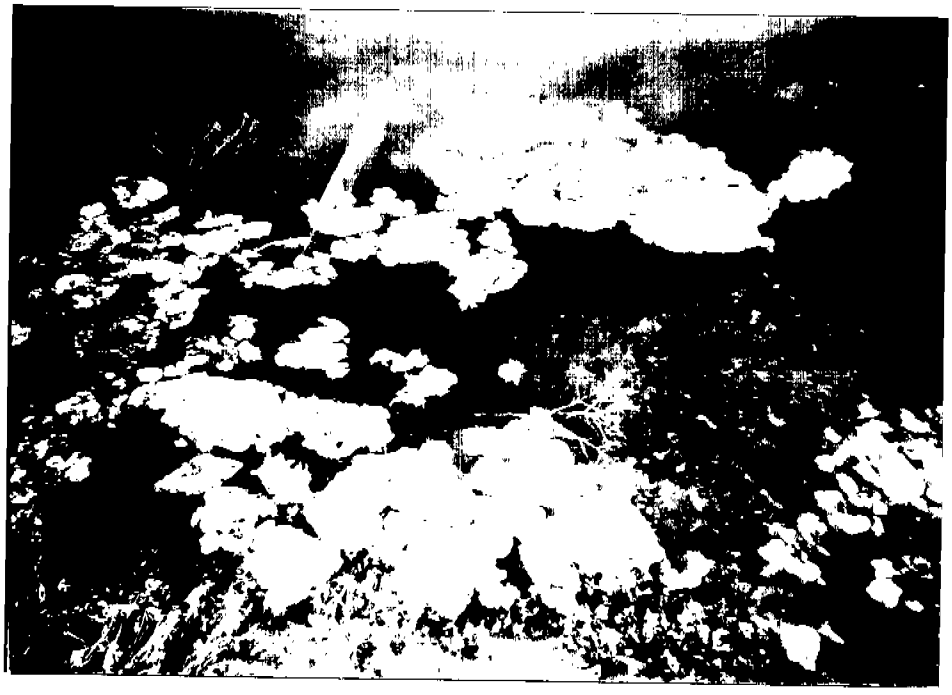
Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.



Bybee artesian well in channel (or possibly just pipe fragment?) (Photo #18).

Bybee artesian well at tip of "hook" of artesian basin (Photo # 19).

Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.



Bybee artesian well (Photo #20).

Bybee pumped wells, looking SW from location "21" on map.

Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Bybee Pumped wells looking SSW from point "21" on map.

Bybee pumped wells looking S from location "21" on map.

Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Holley pumped well #7 (Photo #22)

Holley pumped well #6 (Photo #23)

Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

Holley pumped well #7 (Photo #22)

(photo failed)

Holley pumped well #6 (Photo #23)

SCANNED

Mud Lake Water Users Points of Diversion
Photos Taken 10/9/2000 by Bryce A.

(photo follows)

Holley pumped wells, looking west from point "24" on map

Holley pumped well #5 (located near label "24" on map).

State of Idaho
DEPARTMENT OF WATER RESOURCES
900 N. Skyline Dr., Suite A, Idaho Falls, Idaho 83402-1718 - (208) 525-7161- Fax (208) 525-7177

EASTERN REGION

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

October 11, 2000

Garth Soderquist
Mud Lake Water Users
PO Box 68
Terreton, ID 83450

Re: Location of MLWU Wells

Dear Mr. Soderquist:

Please review the enclosed maps and let me know if we've correctly identified all of the Mud Lake Water Users wells.

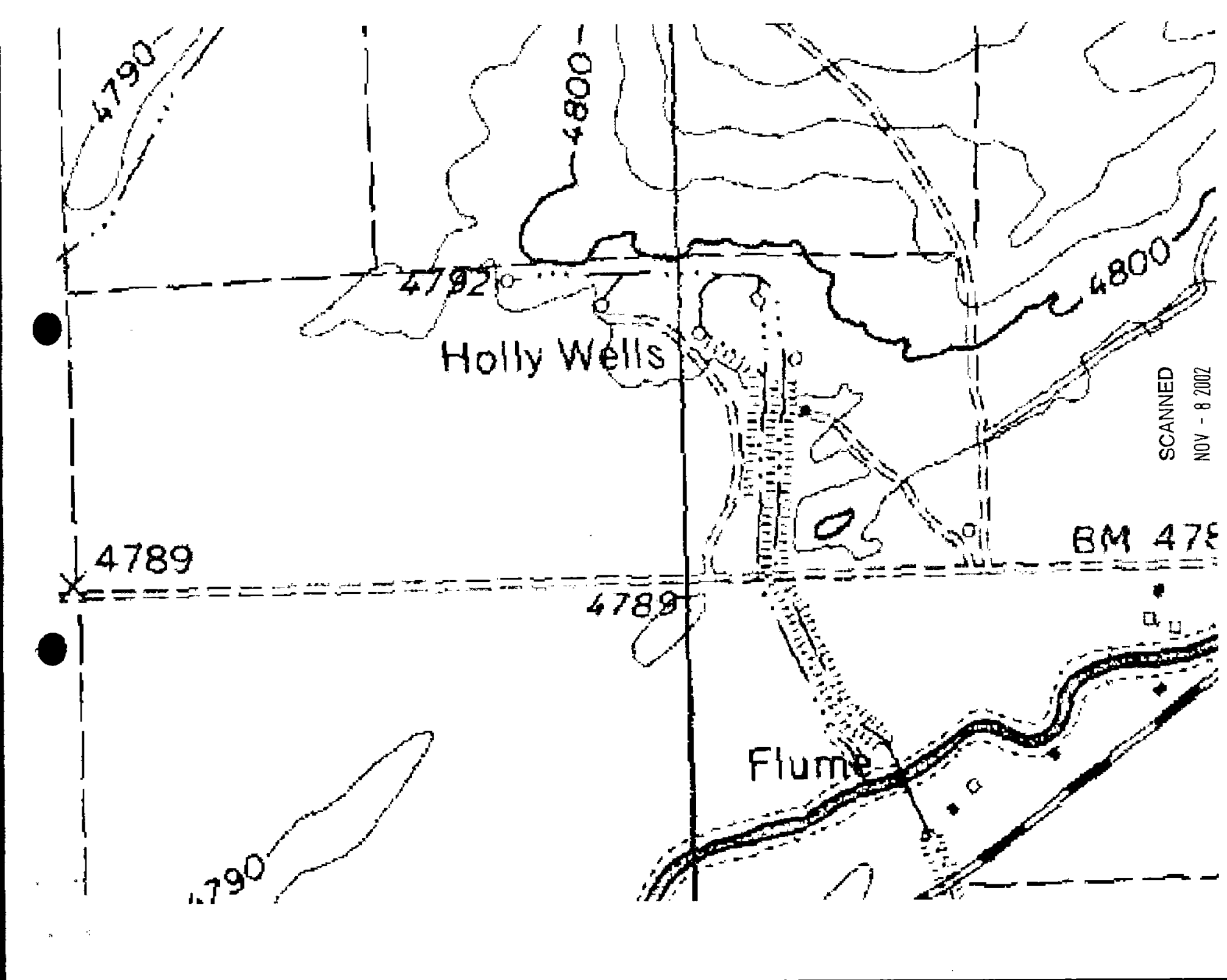
I'll be out of town the rest of the week but you may contact me at home this weekend or at the office next Monday.

Thank you,

Bryce A. Contor

Bryce A. Contor
Senior Water Resource Agent

SCANNED
NOV - 8 2002



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NOV - 8 2002

Mud Lake Water Users Wells
October, 2000

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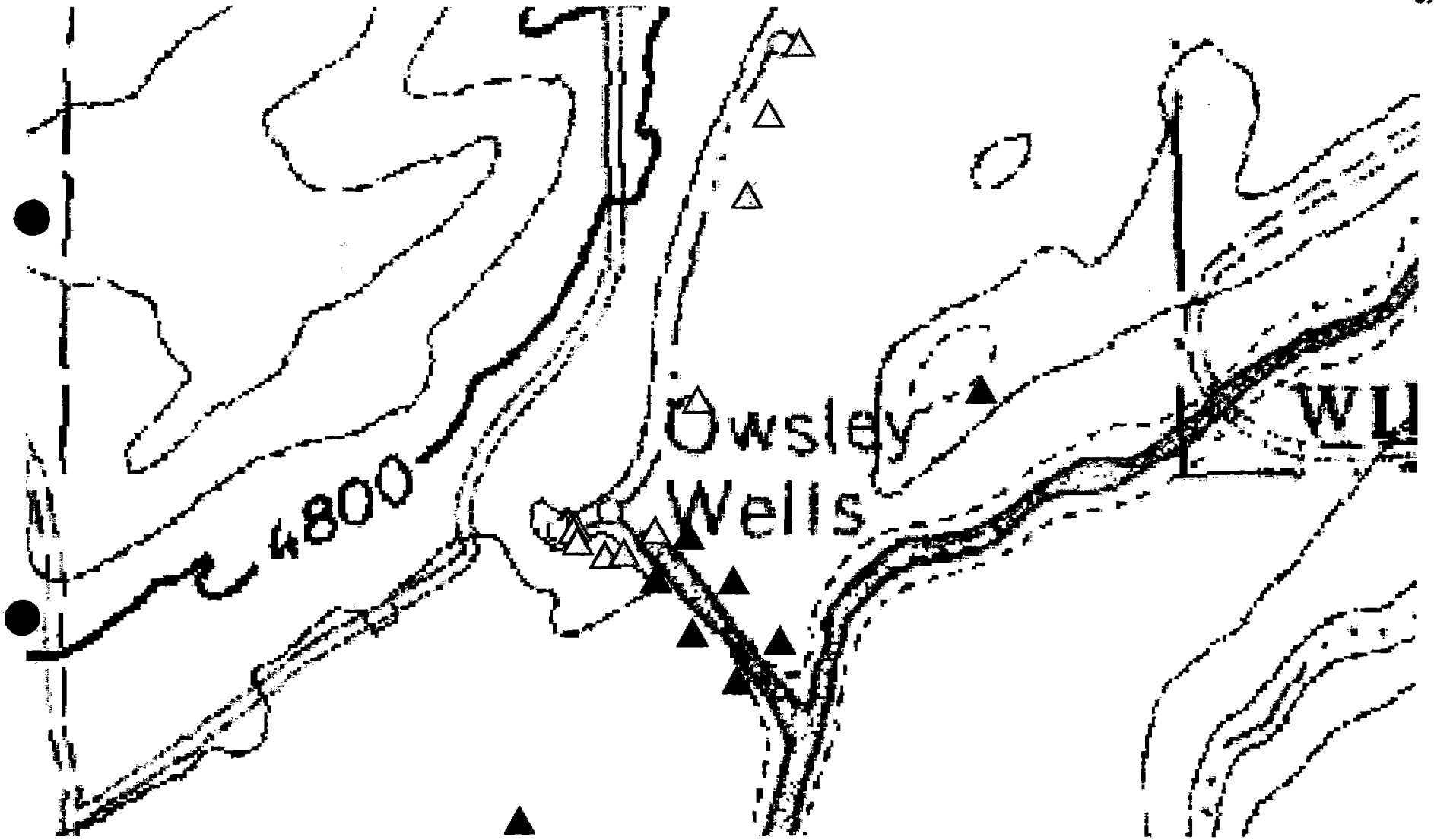
NOV - 8 2002

Mud Lake Water Users Wells
October, 2000

SCANNED
NOV - 8 2007



- Unused Wells.shp
- Sprinkler Wells .shp
- Artesian Wells.shp
- Pumped Wells .shp

Mud Lake Water Users Wells
October, 2000

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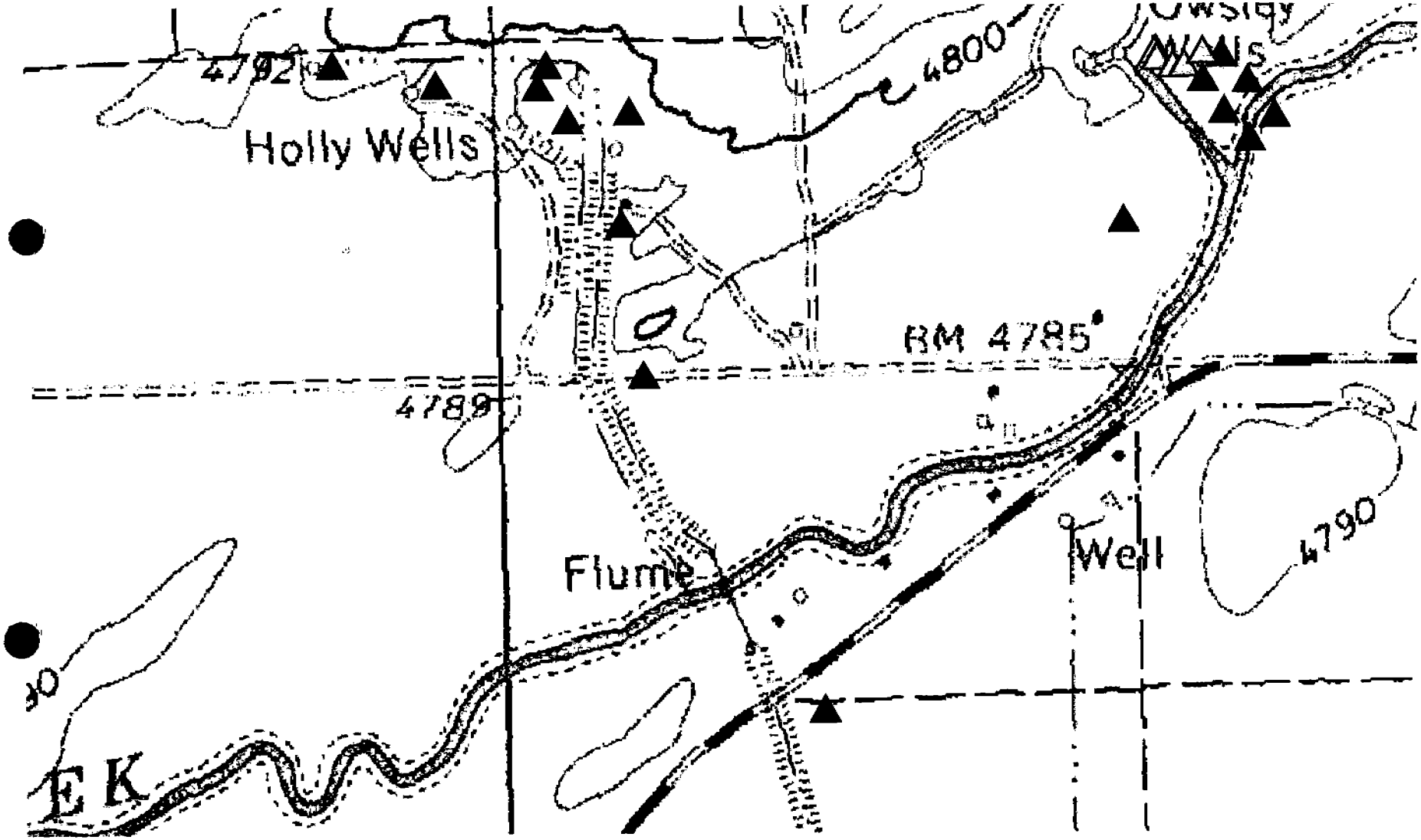
NOV - 8 2002



- Unused Wells.shp
- Sprinkler Wells .shp
- Artesian Wells.shp
- Pumped Wells .shp

Mud Lake Water Users Wells
October, 2000

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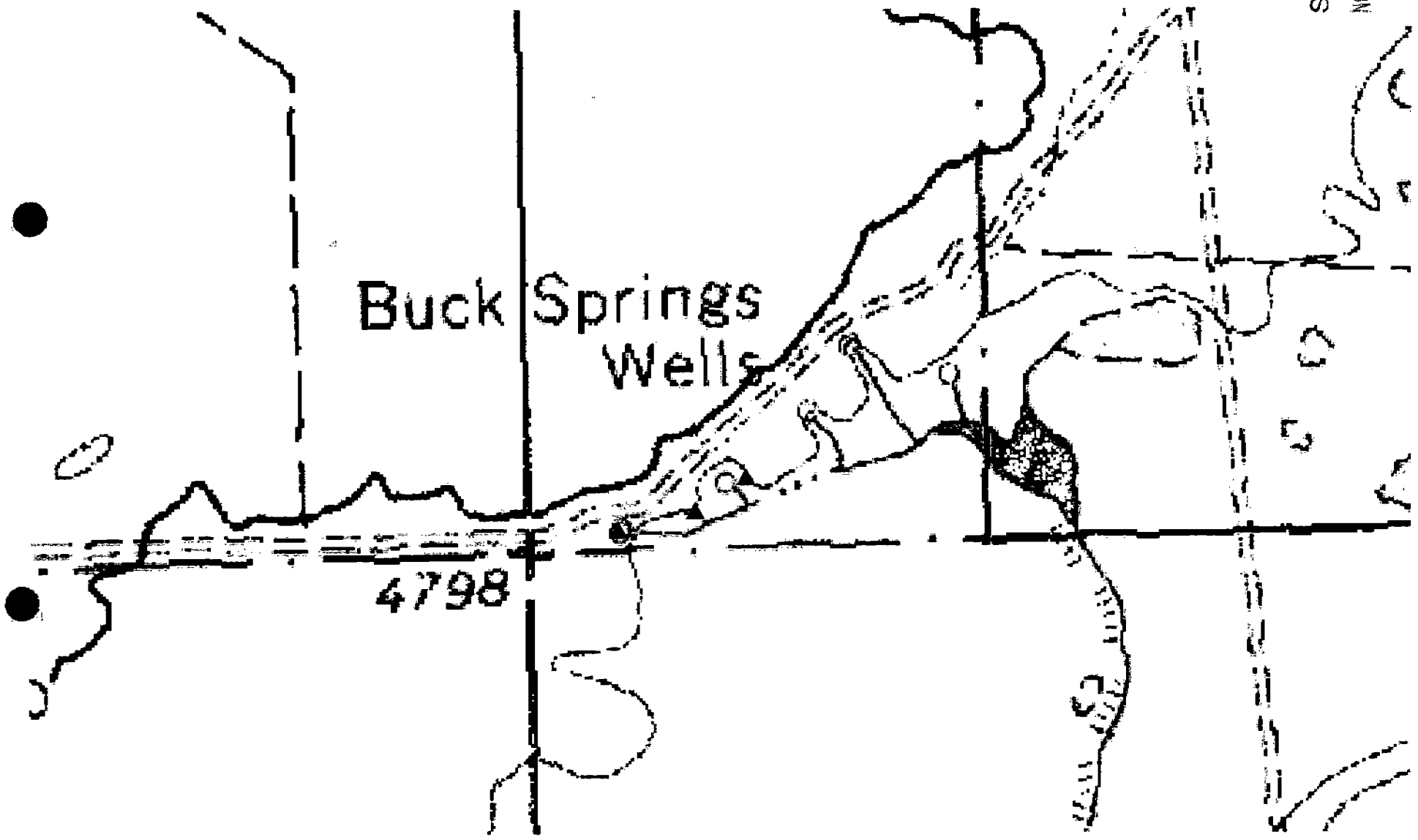

- Unused Wells.shp
- Sprinkler Wells .shp
- Artesian Wells.shp
- Pumped Wells .shp

Mud Lake Water Users Wells
October, 2000

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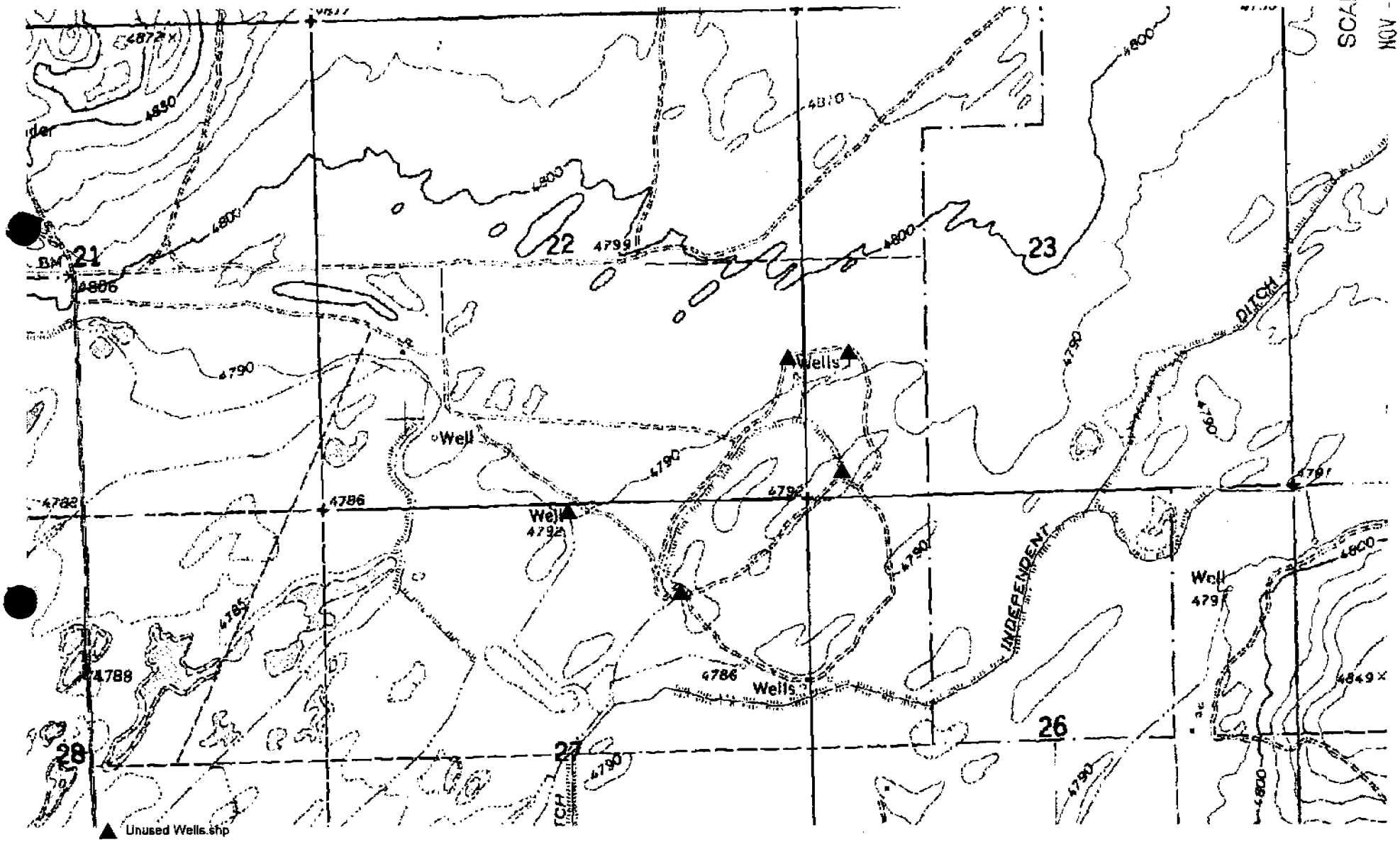
NOV - 8 2002



Mud Lake Water Users Wells
October, 2000

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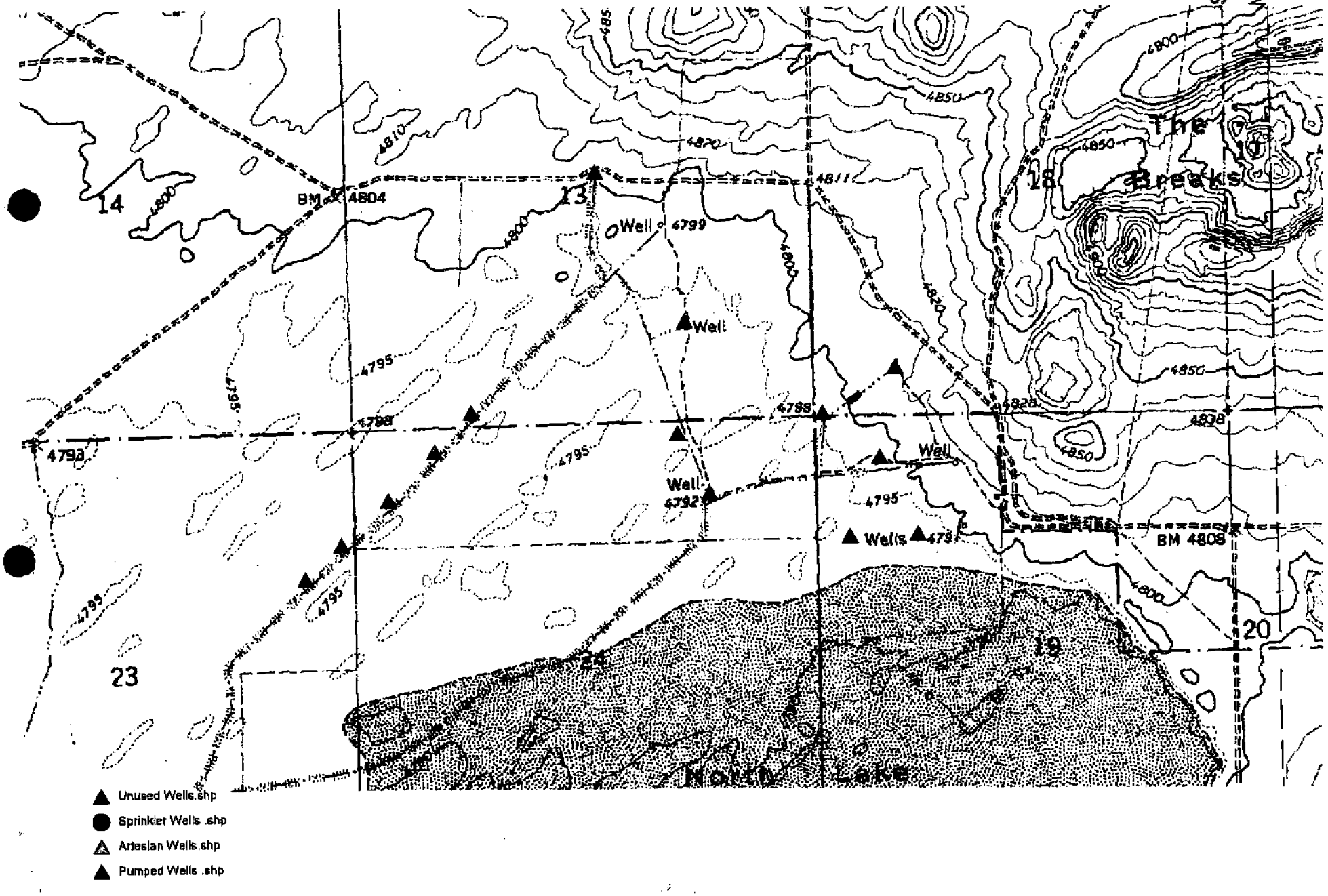
NOV - 8 2002



Mud Lake Water Users Wells
October, 2000

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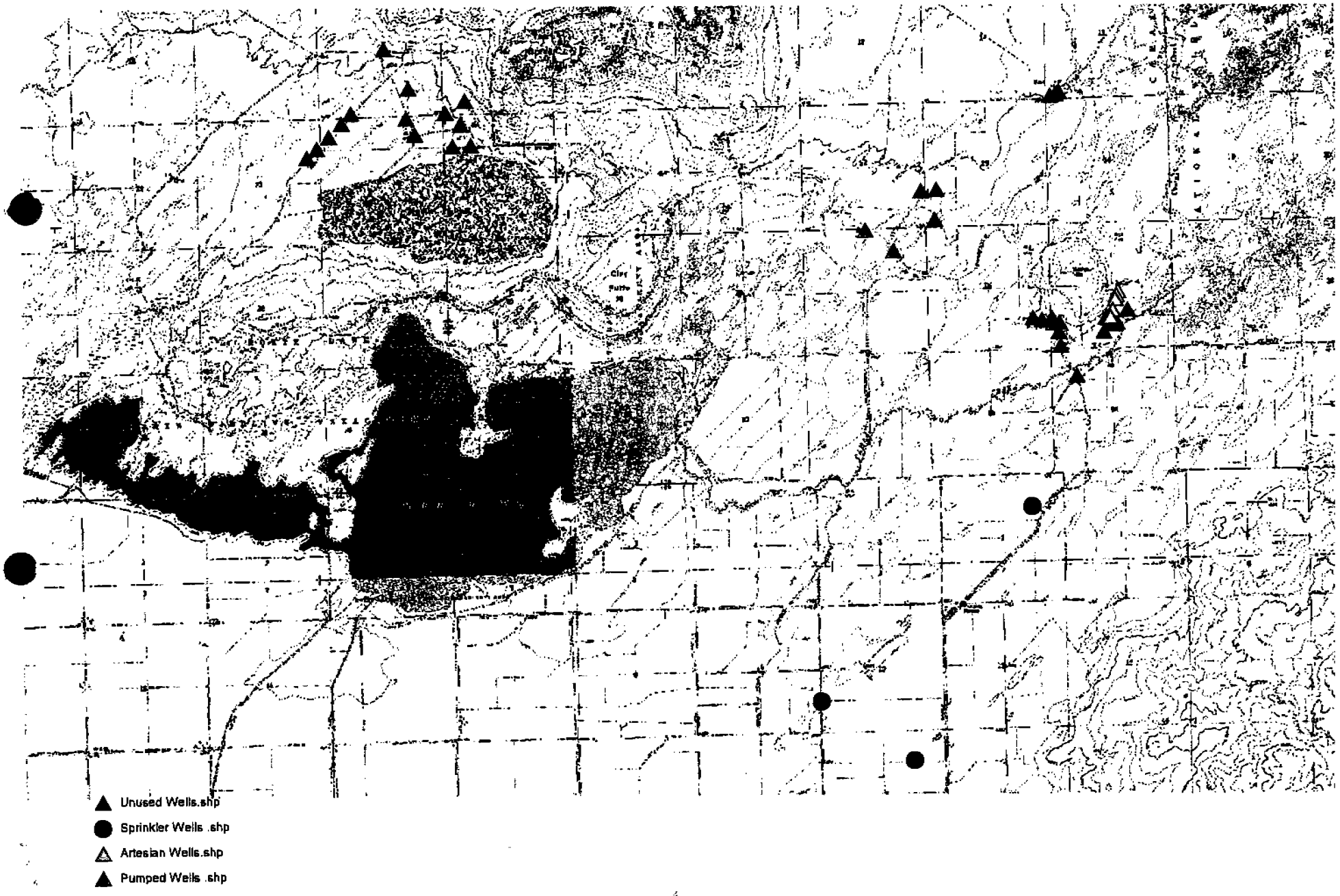
NOV - 8 2002



MLWW Field Work 10/9/2000

1) Kirk Egbert well 0633780 E
offset zero 0307824 N

2) Marty/Jacket #4 0634729 E
offset zero 0313625 N
(#1 on map?)

3) Marty/Jacket #3 0635267 E
offset 1 meter S 0314021 N
(#2 on map?)

4) Marty/Jacket #3 WPT 11 averaged
offset 2 m W 063 5289 E
(#3 on map) 0314410 N

5) Marty/Jacket #4 0635087 E
offset 1 m S 0314394 N
(#4 on map)

4549563

6) Marty/Jacket #5 0634356 E
offset 1 m S 0313888 N
(#5 on map)

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NOV - 8 2002

B Contor
MLWU / Independent WU Field work p2
10/9/00

Buck Springs
7) Independent pump #1 0637131 E
100 hp motor nameplate 0315600 N
offset zero

8) Check structure @ 0637078 E
Buck Springs 0315658 N
offset zero

9) Buck Springs
Independent pump #3 0637101 E
75 hp motor nameplate 0315725 N
offset 1 meter S

10) Buck Springs
Independent # (not numbered at site)
100 hp motor nameplate 0637005 E
offset 2 meter S 0315754 N

12) Buck Springs
Independent # (not numbered) 0636991 E
200 hp motor nameplate 0315663 N

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NOV 8 2002

B Contor
MLWU / Independent WU Field work 10/9/00
p 3

13) Buck Springs 0636901 E
MLWU East well 0315640 N
Offset 4 meters west

14) Buck Springs 0636853 E
MLWU #2 0315611 N
offset zero

15) Buck Springs 0636788 E
MLWU #1 0315595 N
offset 3 m S 1 m E

16) Bybee - GPS Waypoints 12-21 10/10/00
Artesian wells. 12 & 14 offset ≈ zero
other well is 2-5 meters
into channel. Note I
may not have gotten all the wells.
Not all photographed.

SCANNED
NOV - 8 2002

B Conlon MLWU Field work 10/10/00

Pumped well #13 0637604 E
0312752 N

pumped well #12 0637582 E
0312723 N

pumped well #14 0637607 E
0312687 N

pumped well #16 0637638 E
0312655 N

pumped well #17 0637667 E
0312682 N

Camas creek pump #20 0637703 E
0312643 N

pumped well #15 0637635 E
0312722 N

pumped well #19 0637804 E
0312851 N

pumped well #18 0637489 E
0312751 N

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NOV 08 2007

B Center MLWU Field work 10/10/00
Holley well field

1) Pumped well #7 0636927 E
offset 4 m W 0312381 N
(pump 4 m W of GPS)

2) Pumped well #6 0636907 E
offset 10 M West 0312552 N

3) Pumped well #5 0636906 E
offset zero 0312687 N

4) Unused well 0636836 E
offset 2 m E 2 m S 0312679 N

5) pumped well #4 0636799 E
offset zero 0312715 N

6) pumped well #3 0636809 E
offset zero 0312741 N

SCANNED
NOV - 8 2002

B Contor – MCLW field work 10/10/22

Holley well field

7) Pumped well #2 0636680 E
Offset zero 0312718 N

8) Pumped well #1 0636558 E
Offset zero 0312742 N

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NOV - 8 2022

Note these values are adjusted for instrument offsets.

Kirk Egberl	Sprinkler W	633780	307824	
Marty/Jack	Unused W	634729	313625	Panel labeled #4
Marty/Jack	Unused W	635267	314021	Panel labeled #3
Marty/Jack	Pumped W	635289	314410	Panel labeled #3
Marty/Jack	Pumped W	635087	314393	Panel labeled #4
Marty/Jack	Unused W	634356	313889	
Buck Sprin	Pumped W	637131	315600	100 hp motor nameplate
Buck Sprin	Check Stru	637078	315658	
Buck Sprin	Pumped W	637101	315726	75 hp motor nameplate
Buck Sprin	Pumped W	637005	315756	100 hp motor nameplate, not numbered at site
Buck Sprin	Pumped W	636991	315663	200 hp motor nameplate, not numbered at site
Buck Sprin	Pumped W	636897	315640	
Buck Sprin	Pumped W	636853	315611	
Buck Sprin	Pumped W	636788	315595	Stockwell approx 15 meters south, no GPS reading taker
Bybee	Artesian	637678	313084	
Bybee	Artesian	637652	313039	Well 4 meters into channel. Poor GPS coverage
Bybee	Artesian	637643	312982	
Bybee	Artesian	637610	312844	Well 3 meters into channel.
Bybee	Artesian	637527	312761	Well into channel 4 meters
Bybee	Artesian	637525	312759	Well into channel 4 meters
Bybee	Artesian	637527	312748	Well into channel 2 meters
Bybee	Artesian	637548	312743	Well into channel 3 meters
Bybee	Artesian	637560	312743	Well into channel 3 meters
Bybee	Artesian	637584	312754	Well into channel 6 meters, east-west location imprecise.
Bybee #13	Pumped W	637604	312752	
Bybee #12	Pumped W	637582	312723	
Bybee #14	Pumped W	637607	312687	
Bybee #16	Pumped W	637638	312655	
Bybee #17	Pumped W	637667	312682	
Bybee #20	Camas Cre	637703	312643	
Bybee #15	Pumped W	637635	312722	
Bybee #19	Pumped W	637804	312851	
Bybee #18	Pumped W	637489	312561	
Holley #7	Pumped W	636923	312381	
Holley #6	Pumped W	636897	312557	
Holley #5	Pumped W	636906	312687	
Holley	Unused W	636834	312677	
Holley #4	Pumped W	636799	312715	
Holley #3	Pumped W	636809	312741	
Holley #2	Pumped W	636680	312718	
Holley #1	Pumped W	636558	312742	

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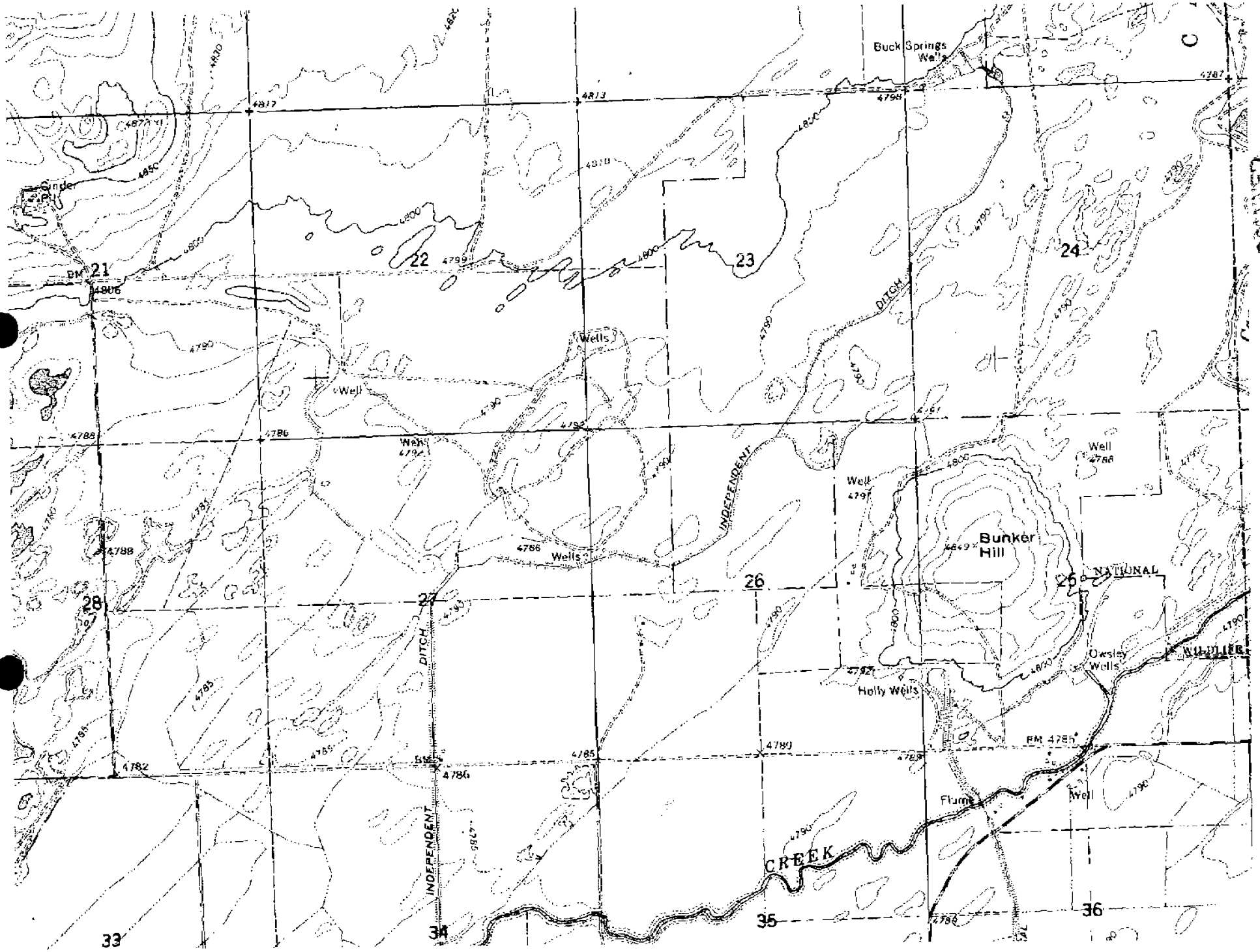
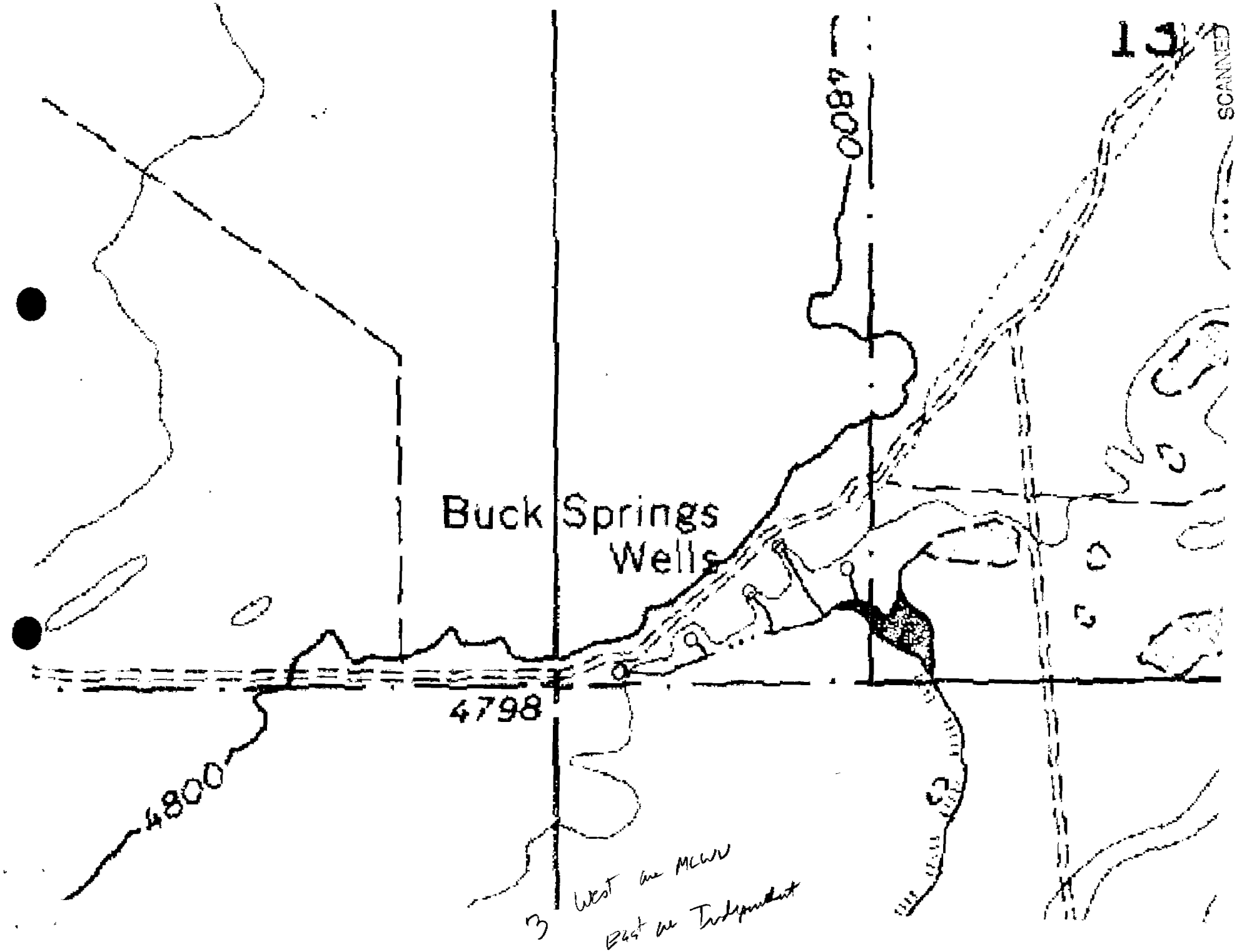
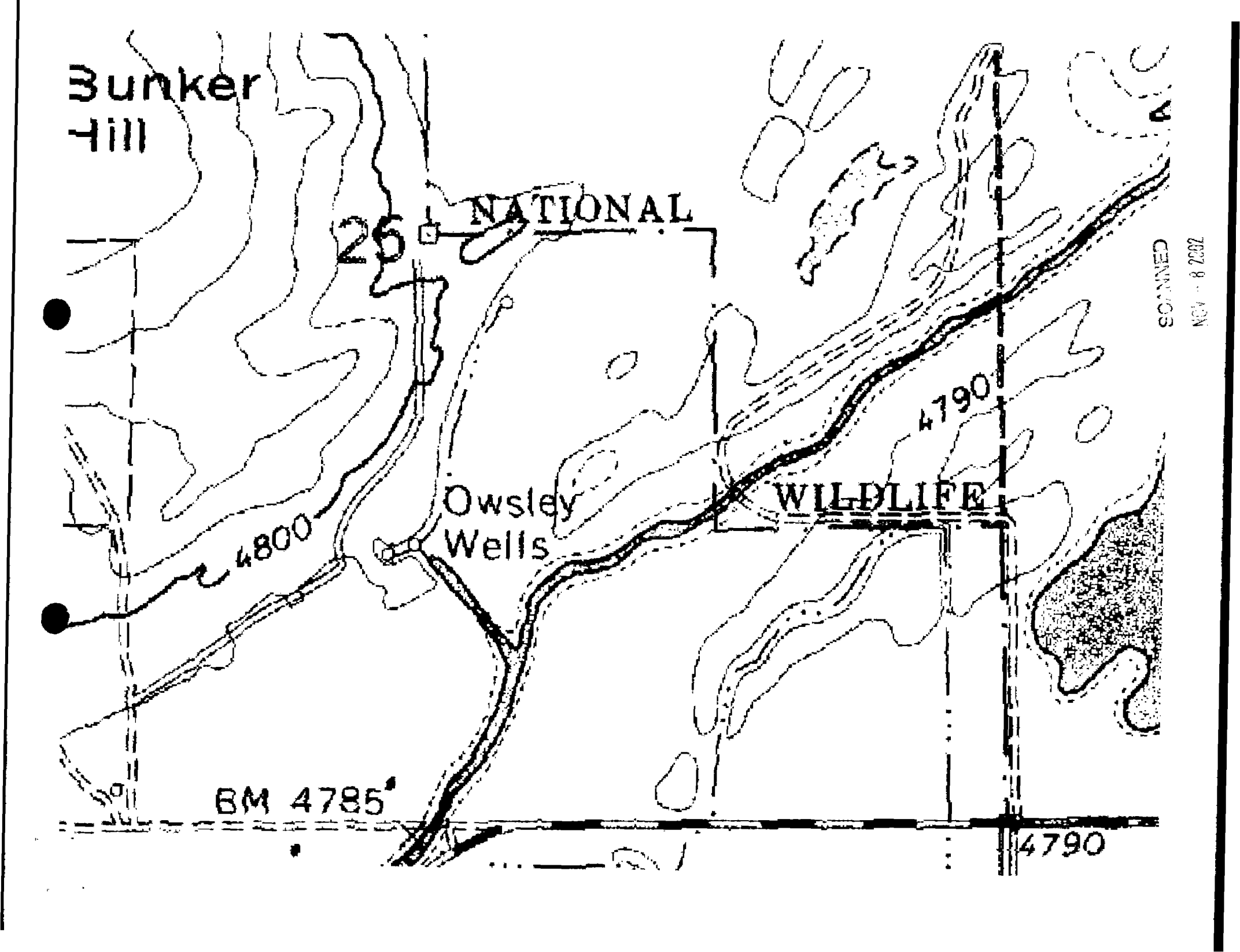
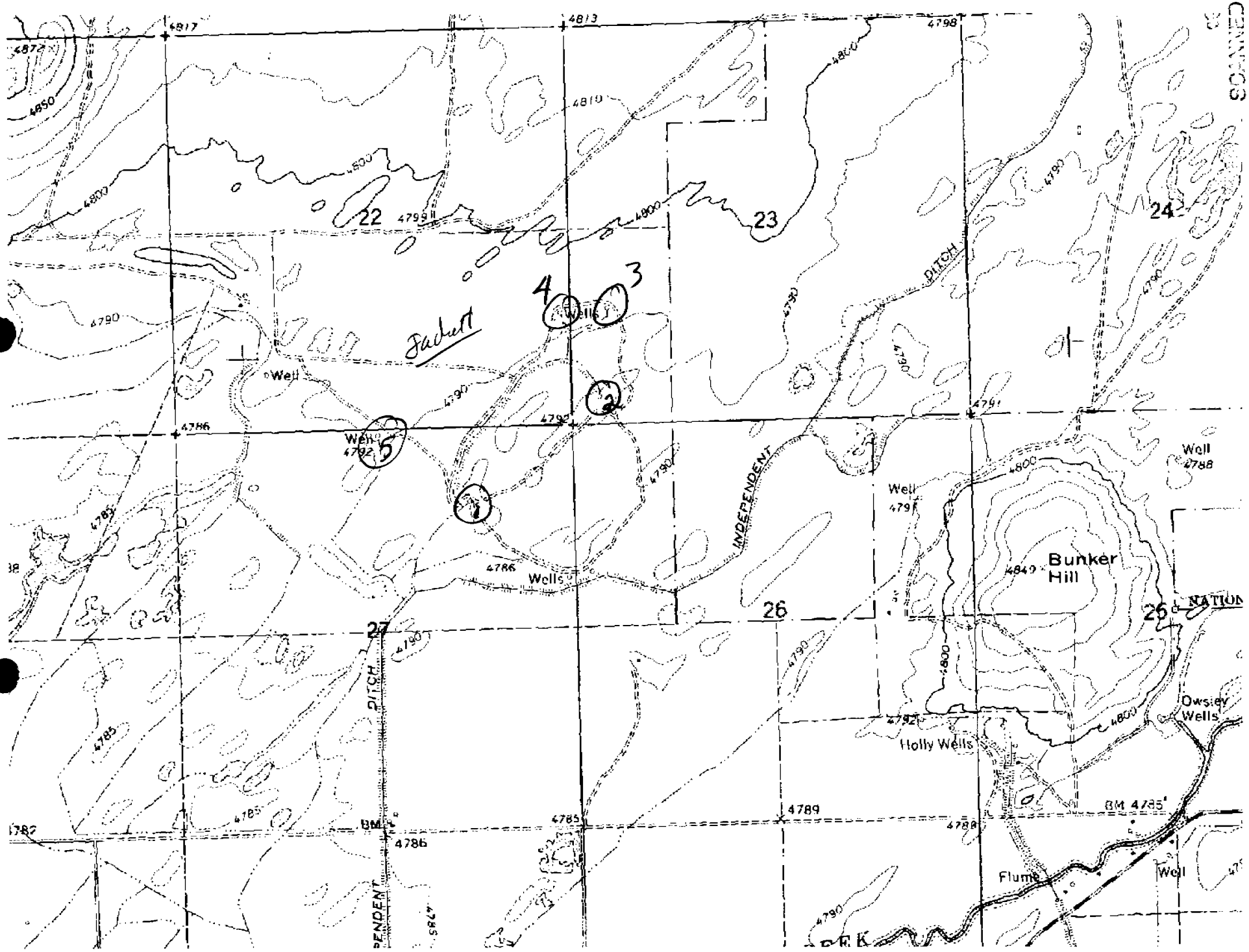
NOV - 8 2002


Buck Springs
Well
Cinder
Pit
RM 21
4806
22
23
24
DITCH
Wells
Well
4788
4786
Wells
4792
INDEPENDENT
Well
4788
Well
4786
Bunker
Hill
NATIONAL
26
27
28
25
DITCH
Oakley
Wells
Holly Wells
RM 4785
4782
4786
4785
4789
Flume
Well
INDEPENDENT
CREEK
33
34
35
36



SCANNED
NOV - 8 2002


Bunker
Hill
NATIONAL
26
4790
Owsley
Wells
WILDLIFE
4800
BM 4785
4790
SCANNED
NOV - 8 2002



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NOV - 8 2002

MUD LAKE WATER USERS, INC.
STOCKHOLDERS NEWSLETTER

July 17, 2000

Dear Stockholder,

We need you to **make sure that your ditches are clean** prior to you ordering water. If they are not clean you cannot get as good of a flow & we reserve the right to refuse to deliver water for such ditches.

The hot, dry, windy weather has caused a heavy demand for water. However, we have had good well flows this year and are keeping up with demand with only a few delays. Wells #3 & #4 in the Jackett have been off-line for repairs but we believe they will be operational by early August. At Holley the use of the creek pump has relieved pressure on the well field & supplied the needed water for deliveries. At North Lake we have shut #1 off do to cavitation. We have had a better use of magnacide this year, which has helped to control moss. We are also continuing to cut moss in Camas Creek & in the independent ditch. Currently our flow into the lake is 360 cfs with only 250 cfs going out & our current lake level is 4.3'.

In the past year we have used a large amount of gravel & bentonite from our yard, which will need to be replaced. However the repairs have been necessary. The maintenance done Jackett & Holley has been a great benefit to water distribution on those systems.

All stockholders with pivots crossing roadways or dikes should make as much effort to control them as possible, as this will reduce our expense.

At the North Lake well field we are planning to fill in the old wells that lie along the Old Rock Ditch to come into compliance with current regulations. We also plan to drill a new well there at #11D to replace a caved in well at the Marty well field.

We have installed computer controlled monitoring devices at several locations on the system, which has reduced our mileage in a year when high fuel prices make this increasingly important. We plan to install more in the future.

We now have a full-time secretary in the office from 8 AM to 4 PM Monday to Friday & 8 AM to 12 Noon Saturday. This means that there should always be someone to answer your calls for water orders & turn off notices. Please allow 1 day for orders & **at least 12 hrs. for offs** (6 hrs. for sprinkler transfers). We hope that you have been satisfied with our service this year, but if you are not our secretary will answer those calls as well & we will attempt to work out a solution. Our address, phone number, & fax number are at the bottom of the page for your reference. Please note that if you call the fax number the secretary will not answer. It is for faxes only.

Sincerely,
Garth Soderquist

Garth Soderquist
President
Mud Lake Water Users, Inc.
pwf

Mailed to B Coulter fr. Terreton 7/18/00

Rec'd 7/18/00

P.O. Box 68
Terreton, ID 83450
Ph 663-4359
Fax 663-4369

SCANNED
NOV - 6 2002

To: Mud Lake Water Users File
Fr: Bryce Contor
Date: 7/14/2000

Re: Permissible Place of Use, Surface Rights

MLWU was created by a merger of Holley, Jacket, and Owsley canal companies. Transfer 5335 in 1999 combined all the POD's and POU's of the groundwater rights on a permissible place of use basis.

I couldn't find a parallel transfer for SW rights. Per Skip Jones, even with the merger, the original POD's and separate delivery systems of the parent companies are still separate, and it was felt that the mix of SW rights per diversion was adequate, so no transfer was needed.

Because the merger occurred after 1987, I will recommend the SW rights to the POD and POU's as existed in 1987. If the company wishes now to use these rights on a PPU basis, another transfer will be needed.

SCANNED
NOV - 8 2002

Contor, Bryce

From: King, Scott
Sent: Monday, July 10, 2000 6:17 PM
To: Contor, Bryce
Subject: RE: Friction on Mud Lake Lift stations

Hi Bryce,
I did very few if any tests in that area. Burke and Jared did a handful.

What I've noticed with relatively low-lift wells is that they undersize the column pipe so that there may be more friction per length of column than you'd otherwise expect, but that because the lift is so low that it typically doesn't add up to much compared to deeper systems.

I've noticed in the Raft River basin that when using theoretical on the historic shallow open-discharging wells, my results, even when accounting for additional friction, etc., are often much higher than those flows measured by licensing exams or the flows claimed. I just plain over-estimate flow from shallow, open-discharging wells. What's the problem? Not sure, but could be a combination of ...
-oversized motors (not much more expensive to purchase 20-hp rather than 15-hp)
-old low-head pumps less efficient than current models, OR
-operated off the curve or out of the best efficiency range, and therefore less efficient than projected

PWL, friction, etc could also be higher than claimed by the claimant, but sometimes this still doesn't explain it all.

My personal experience with wells in Basin 34 suggests that in general, you will find an open-discharge system to be significantly less efficient than a pressure discharge system. I attributed it to several factors, but mainly because I don't think the operator notices a decrease in flow as much as decrease in pressure at the sprinklers, and because these motors are typically smaller and therefore fairly inexpensive to run.

But back to low lift (with pressure), I'd hit the friction loss tables, choosing a column pipe that is generally one size smaller than you'd normally pick (velocities greater than 5 fps, maybe in the 10 fps range). Do you have friction loss tables for column pipe and discharge head?

Perhaps Burke will have some more input. Maybe also Robin?

Scott

-----Original Message-----
From: Contor, Bryce
Sent: Monday, July 10, 2000 9:17 AM
To: Scholer, Burke; King, Scott
Subject: Friction on Mud Lake Lift stations

I need to do some theoretical capacities on diversions out of Mud Lake, very similar to the Jefferson Canal lifts. Seems like I remember one of you telling me you did energy audits on those?

The horsepowers range from 25 to 250, with lift about 12 to 15 feet. With lift that small, the calculation is going to be very sensitive to the estimate for friction.

What do you recommend?

Thanks, Bryce

SCANNED
NOV - 8 2007

OD-5813
AJ5813NP
SELECTION FILE: MLWA

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION WATER MASTER REPORT
BY WATER SOURCE/POINT OF DIVERSION

DATE: 07/03/00
TIME: 16:35:31
PAGE: 1

*MPOD: Y = Multiple Pts of Diversion, Pod Diversion Rate(s) is 0
U = Multiple Pts of Diversion, Pod Diversion Rate(s) Not 0
N = No Multiple Pts of Diversion (1 or less)

WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	STG	POINT OF DIVERSION	FLG	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	USE
WATER SOURCE: GROUNDWATER									
\31-10627	MUD LAKE WATER USERS INC	04/01/1920		06N 34E 24	NWNW	0.080 CFS		N	40
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L	07N 34E 13	SWNE	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L	07N 34E 13	SWNE	64.400 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	SWNE	16.000 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	SWNE	16.000 CFS		Y	01
A31-02343	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	SWNE	16.000 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	SWNE	16.000 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	SWNE	16.000 CFS		Y	01
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L	07N 34E 13	NWSE	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L	07N 34E 13	NWSE	64.400 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	NWSE	16.000 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	NWSE	16.000 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	NWSE	16.000 CFS		Y	01
A31-02343	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	NWSE	16.000 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	NWSE	16.000 CFS		Y	01
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L	07N 34E 13	SWSE	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L	07N 34E 13	SWSE	64.400 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	SWSE	16.000 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	SWSE	16.000 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	SWSE	16.000 CFS		Y	01
A31-02343	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	SWSE	16.000 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 13	SWSE	16.000 CFS		Y	01
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L	07N 34E 24	NENE	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L	07N 34E 24	NENE	64.400 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NENE	16.000 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NENE	16.000 CFS		Y	01
A31-02343	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NENE	16.000 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NENE	16.000 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NENE	16.000 CFS		Y	01
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L	07N 34E 24	NWNE	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L	07N 34E 24	NWNE	64.400 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NWNE	16.000 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NWNE	16.000 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NWNE	16.000 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NWNE	16.000 CFS		Y	01
A31-02343	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NWNE	16.000 CFS		Y	01
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L	07N 34E 24	NWNW	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L	07N 34E 24	NWNW	64.400 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NWNW	16.000 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NWNW	16.000 CFS		Y	01
A31-02343	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NWNW	16.000 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NWNW	16.000 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L	07N 34E 24	NWNW	16.000 CFS		Y	01
A31-00336B	MUD LAKE WATER USERS INC	04/27/1932	D	07N 35E 13	SWSW	11.050 CFS		Y	01

RECEIVED
NOV - 8 2002

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION WATER MASTER REPORT
BY WATER SOURCE/POINT OF DIVERSION

SCANNED
NOV - 8 2002

*MPOD: Y = Multiple Pts of Diversion, Pod Diversion Rate(s) is 0
U = Multiple Pts of Diversion, Pod Diversion Rate(s) Not 0
N = No Multiple Pts of Diversion (1 or less)

WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	ST	FLG	POINT OF DIVERSION	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	USE
A31-00337B	MUD LAKE WATER USERS INC	12/15/1932	D		07N 35E 13 SWSW	17.000 CFS		Y	01
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L		07N 35E 18 SWSW	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L		07N 35E 18 SWSW	64.400 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 18 SWSW	16.000 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 18 SWSW	16.000 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 18 SWSW	16.000 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 18 SWSW	16.000 CFS		Y	01
A31-02343	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 18 SWSW	16.000 CFS		Y	01
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L		07N 35E 19 NENW	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L		07N 35E 19 NENW	64.400 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 NENW	16.000 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 NENW	16.000 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 NENW	16.000 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 NENW	16.000 CFS		Y	01
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L		07N 35E 19 NWNW	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L		07N 35E 19 NWNW	64.400 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 NWNW	16.000 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 NWNW	16.000 CFS		Y	01
A31-02343	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 NWNW	16.000 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 NWNW	16.000 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 NWNW	16.000 CFS		Y	01
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L		07N 35E 19 SWNW	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L		07N 35E 19 SWNW	64.400 CFS		Y	01
A31-02343	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 SWNW	16.000 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 SWNW	16.000 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 SWNW	16.000 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 SWNW	16.000 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 SWNW	16.000 CFS		Y	01
A31-02239	MUD LAKE WATER USERS INC	01/25/1930	L		07N 35E 19 SENW	40.000 CFS		Y	01
A31-02265	MUD LAKE WATER USERS INC	05/22/1940	L		07N 35E 19 SENW	64.400 CFS		Y	01
A31-02343	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 SENW	16.000 CFS		Y	01
A31-02345	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 SENW	16.000 CFS		Y	01
A31-02344	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 SENW	16.000 CFS		Y	01
A31-02341	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 SENW	16.000 CFS		Y	01
A31-02342	MUD LAKE WATER USERS INC	09/03/1954	L		07N 35E 19 SENW	16.000 CFS		Y	01
A31-00336B	MUD LAKE WATER USERS INC	04/27/1932	D		07N 35E 22 NWSE	11.050 CFS		Y	01
A31-00337B	MUD LAKE WATER USERS INC	12/15/1932	D		07N 35E 22 NWSE	17.000 CFS		Y	01
A31-00336B	MUD LAKE WATER USERS INC	04/27/1932	D		07N 35E 23 NWSW	11.050 CFS		Y	01
A31-00337B	MUD LAKE WATER USERS INC	12/15/1932	D		07N 35E 23 NWSW	17.000 CFS		Y	01
A31-00336B	MUD LAKE WATER USERS INC	04/27/1932	D		07N 35E 23 SWSW	11.050 CFS		Y	01
A31-00337B	MUD LAKE WATER USERS INC	12/15/1932	D		07N 35E 23 SWSW	17.000 CFS		Y	01
A31-10626	MUD LAKE WATER USERS INC	04/01/1920	J		07N 35E 25 SESW	0.020 CFS		N	43
A31-00327	MUD LAKE WATER USERS INC	11/16/1931	D		07N 35E 25 SESW	110.000 CFS		Y	01
A31-00329	MUD LAKE WATER USERS INC	01/08/1932	D		07N 35E 25 SESW	50.000 CFS		Y	01
A31-00330	MUD LAKE WATER USERS INC	06/26/1936	D		07N 35E 25 SESW	80.000 CFS		Y	01
A31-00327	MUD LAKE WATER USERS INC	11/16/1931	D		07N 35E 25 NWSE	110.000 CFS		Y	01
A31-00329	MUD LAKE WATER USERS INC	01/08/1932	D		07N 35E 25 NWSE	50.000 CFS		Y	01
A31-00330	MUD LAKE WATER USERS INC	06/26/1936	D		07N 35E 25 NWSE	80.000 CFS		Y	01

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WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	ST	FLG	POINT OF DIVERSION	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	USE
A31-00327	MUD LAKE WATER USERS INC	11/16/1931	D		07N 35E 25 SWSE	110.000 CFS		Y	01
A31-00329	MUD LAKE WATER USERS INC	01/08/1932	D		07N 35E 25 SWSE	50.000 CFS		Y	01
A31-00330	MUD LAKE WATER USERS INC	06/26/1936	D		07N 35E 25 SWSE	80.000 CFS		Y	01
A31-00336B	MUD LAKE WATER USERS INC	04/27/1932	D		07N 35E 27 NWNE	11.050 CFS		Y	01
A31-00337B	MUD LAKE WATER USERS INC	12/15/1932	D		07N 35E 27 NWNE	17.000 CFS		Y	01
A31-07043	BYBEE, ROBERT	11/12/1970	L		07N 35E 36 NENWNW	0.620 CFS		N	01
R31-07043	BYBEE, ROBERT	11/12/1970	L		07N 35E 36 NENWNW	0.620 CFS	BUNKER HILL WELL	N	01
WATER SOURCE: MUD LAKE									
A31-00065	MUD LAKE WATER USERS INC	10/03/1910	D		06N 34E 1 SESW	1.600 CFS		Y	01
A31-00168	MUD LAKE WATER USERS INC	10/03/1910	D		06N 34E 1 SESW	1.600 CFS		Y	01
A31-00188	MUD LAKE WATER USERS INC	03/09/1911	D		06N 34E 1 SESW	1.600 CFS		Y	01
A31-00184	MUD LAKE WATER USERS INC	04/15/1912	D		06N 34E 1 SESW	80.800 CFS		Y	01
A31-00166	MUD LAKE WATER USERS INC	09/05/1912	D		06N 34E 1 SESW	1.720 CFS		Y	01
A31-00263	MUD LAKE WATER USERS INC	10/14/1912	D		06N 34E 1 SESW	2.680 CFS		Y	01
A31-00147A	MUD LAKE WATER USERS INC	07/21/1913	D		06N 34E 1 SESW	4.000 CFS		Y	01
A31-00052	MUD LAKE WATER USERS INC	09/06/1913	D		06N 34E 1 SESW	2.500 CFS		Y	01
A31-00104	MUD LAKE WATER USERS INC	10/18/1913	D		06N 34E 1 SESW	3.000 CFS		Y	01
A31-00105	MUD LAKE WATER USERS INC	12/15/1913	D		06N 34E 1 SESW	1.600 CFS		Y	01
A31-00162	MUD LAKE WATER USERS INC	06/01/1916	D		06N 34E 1 SESW	1.000 CFS		Y	01
A31-00159	MUD LAKE WATER USERS INC	06/24/1916	D		06N 34E 1 SESW	2.440 CFS		Y	01
A31-00185	MUD LAKE WATER USERS INC	12/02/1916	D		06N 34E 1 SESW	72.600 CFS		Y	01
A31-00185Z5	MUD LAKE WATER USERS INC	12/02/1916	D		06N 34E 1 SESW	72.600 CFS		Y	01
A31-00163	MUD LAKE WATER USERS INC	12/03/1916	D		06N 34E 1 SESW	1.000 CFS		Y	01
A31-00006	MUD LAKE WATER USERS INC	12/10/1917	D		06N 34E 1 SESW	1.400 CFS		Y	01
A31-00169	MUD LAKE WATER USERS INC	12/10/1917	D		06N 34E 1 SESW	1.600 CFS		Y	01
A31-00237	MUD LAKE WATER USERS INC	11/28/1919	D		06N 34E 1 SESW	2.400 CFS		Y	01
A31-00034	MUD LAKE WATER USERS INC	05/01/1920	D		06N 34E 1 SESW	3.200 CFS		Y	01
A31-00035	MUD LAKE WATER USERS INC	05/01/1921	D		06N 34E 1 SESW	6.400 CFS		Y	01
A31-00187	MUD LAKE WATER USERS INC	05/01/1921	D		06N 34E 1 SESW	25.000 CFS		Y	01
A31-00036	MUD LAKE WATER USERS INC	05/01/1922	D		06N 34E 1 SESW	9.600 CFS		Y	01
A31-00037	MUD LAKE WATER USERS INC	05/01/1923	D		06N 34E 1 SESW	6.400 CFS		Y	01
A31-00232	MUD LAKE WATER USERS INC	05/01/1923	D		06N 34E 1 SESW	1.600 CFS		Y	01
A31-00186	MUD LAKE WATER USERS INC	08/11/1924	D		06N 34E 1 SESW	75.000 CFS		Y	01
A31-00038	MUD LAKE WATER USERS INC	08/28/1924	D		06N 34E 1 SESW	0.800 CFS		Y	01
A31-00363	MUD LAKE WATER USERS INC	08/28/1926	D		06N 34E 1 SESW	6.400 CFS		Y	01
A31-00065	MUD LAKE WATER USERS INC	10/03/1910	D		06N 34E 1 NESE	1.600 CFS		Y	01
A31-00168	MUD LAKE WATER USERS INC	10/03/1910	D		06N 34E 1 NESE	1.600 CFS		Y	01
A31-00188	MUD LAKE WATER USERS INC	03/09/1911	D		06N 34E 1 NESE	1.600 CFS		Y	01
A31-00184	MUD LAKE WATER USERS INC	04/15/1912	D		06N 34E 1 NESE	80.800 CFS		Y	01
A31-00166	MUD LAKE WATER USERS INC	09/05/1912	D		06N 34E 1 NESE	1.720 CFS		Y	01
A31-00263	MUD LAKE WATER USERS INC	10/14/1912	D		06N 34E 1 NESE	2.680 CFS		Y	01
A31-00147A	MUD LAKE WATER USERS INC	07/21/1913	D		06N 34E 1 NESE	4.000 CFS		Y	01
A31-00052	MUD LAKE WATER USERS INC	09/06/1913	D		06N 34E 1 NESE	2.500 CFS		Y	01
A31-00104	MUD LAKE WATER USERS INC	10/18/1913	D		06N 34E 1 NESE	3.000 CFS		Y	01
A31-00105	MUD LAKE WATER USERS INC	12/15/1913	D		06N 34E 1 NESE	1.600 CFS		Y	01

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WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	STG	POINT OF DIVERSION	FLG	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	USE
A31-00162	MUD LAKE WATER USERS INC	06/01/1916	D	06N 34E 1 NESE		1.000 CFS		Y	01
A31-00159	MUD LAKE WATER USERS INC	06/24/1916	D	06N 34E 1 NESE		2.440 CFS		Y	01
A31-00185	MUD LAKE WATER USERS INC	12/02/1916	D	06N 34E 1 NESE		72.600 CFS		Y	01
A31-00185Z5	MUD LAKE WATER USERS INC	12/02/1916	D	06N 34E 1 NESE		72.600 CFS		Y	01
A31-00163	MUD LAKE WATER USERS INC	12/03/1916	D	06N 34E 1 NESE		1.000 CFS		Y	01
A31-00006	MUD LAKE WATER USERS INC	12/10/1917	D	06N 34E 1 NESE		1.400 CFS		Y	01
A31-00169	MUD LAKE WATER USERS INC	12/10/1917	D	06N 34E 1 NESE		1.600 CFS		Y	01
A31-00237	MUD LAKE WATER USERS INC	11/28/1919	D	06N 34E 1 NESE		2.400 CFS		Y	01
A31-00034	MUD LAKE WATER USERS INC	05/01/1920	D	06N 34E 1 NESE		3.200 CFS		Y	01
A31-00187	MUD LAKE WATER USERS INC	05/01/1921	D	06N 34E 1 NESE		25.000 CFS		Y	01
A31-00035	MUD LAKE WATER USERS INC	05/01/1921	D	06N 34E 1 NESE		6.400 CFS		Y	01
A31-00036	MUD LAKE WATER USERS INC	05/01/1922	D	06N 34E 1 NESE		9.600 CFS		Y	01
A31-00037	MUD LAKE WATER USERS INC	05/01/1923	D	06N 34E 1 NESE		6.400 CFS		Y	01
A31-00232	MUD LAKE WATER USERS INC	05/01/1923	D	06N 34E 1 NESE		1.600 CFS		Y	01
A31-00186	MUD LAKE WATER USERS INC	08/11/1924	D	06N 34E 1 NESE		75.000 CFS		Y	01
A31-00038	MUD LAKE WATER USERS INC	08/28/1924	D	06N 34E 1 NESE		0.800 CFS		Y	01
A31-00363	MUD LAKE WATER USERS INC	08/28/1926	D	06N 34E 1 NESE		6.400 CFS		Y	01
A31-00168	MUD LAKE WATER USERS INC	10/03/1910	D	06N 34E 1 SWSE		1.600 CFS		Y	01
A31-00065	MUD LAKE WATER USERS INC	10/03/1910	D	06N 34E 1 SWSE		1.600 CFS		Y	01
A31-00188	MUD LAKE WATER USERS INC	03/09/1911	D	06N 34E 1 SWSE		1.600 CFS		Y	01
A31-00184	MUD LAKE WATER USERS INC	04/15/1912	D	06N 34E 1 SWSE		80.800 CFS		Y	01
A31-00166	MUD LAKE WATER USERS INC	09/05/1912	D	06N 34E 1 SWSE		1.720 CFS		Y	01
A31-00263	MUD LAKE WATER USERS INC	10/14/1912	D	06N 34E 1 SWSE		2.680 CFS		Y	01
A31-00147A	MUD LAKE WATER USERS INC	07/21/1913	D	06N 34E 1 SWSE		4.000 CFS		Y	01
A31-00052	MUD LAKE WATER USERS INC	09/06/1913	D	06N 34E 1 SWSE		2.500 CFS		Y	01
A31-00104	MUD LAKE WATER USERS INC	10/18/1913	D	06N 34E 1 SWSE		3.000 CFS		Y	01
A31-00105	MUD LAKE WATER USERS INC	12/15/1913	D	06N 34E 1 SWSE		1.600 CFS		Y	01
A31-00162	MUD LAKE WATER USERS INC	06/01/1916	D	06N 34E 1 SWSE		1.000 CFS		Y	01
A31-00159	MUD LAKE WATER USERS INC	06/24/1916	D	06N 34E 1 SWSE		2.440 CFS		Y	01
A31-00185	MUD LAKE WATER USERS INC	12/02/1916	D	06N 34E 1 SWSE		72.600 CFS		Y	01
A31-00185Z5	MUD LAKE WATER USERS INC	12/02/1916	D	06N 34E 1 SWSE		72.600 CFS		Y	01
A31-00163	MUD LAKE WATER USERS INC	12/03/1916	D	06N 34E 1 SWSE		1.000 CFS		Y	01
A31-00006	MUD LAKE WATER USERS INC	12/10/1917	D	06N 34E 1 SWSE		1.400 CFS		Y	01
A31-00169	MUD LAKE WATER USERS INC	12/10/1917	D	06N 34E 1 SWSE		1.600 CFS		Y	01
A31-00237	MUD LAKE WATER USERS INC	11/28/1919	D	06N 34E 1 SWSE		2.400 CFS		Y	01
A31-00034	MUD LAKE WATER USERS INC	05/01/1920	D	06N 34E 1 SWSE		3.200 CFS		Y	01
A31-00187	MUD LAKE WATER USERS INC	05/01/1921	D	06N 34E 1 SWSE		25.000 CFS		Y	01
A31-00035	MUD LAKE WATER USERS INC	05/01/1921	D	06N 34E 1 SWSE		6.400 CFS		Y	01
A31-00036	MUD LAKE WATER USERS INC	05/01/1922	D	06N 34E 1 SWSE		9.600 CFS		Y	01
A31-00037	MUD LAKE WATER USERS INC	05/01/1923	D	06N 34E 1 SWSE		6.400 CFS		Y	01
A31-00232	MUD LAKE WATER USERS INC	05/01/1923	D	06N 34E 1 SWSE		1.600 CFS		Y	01
A31-00186	MUD LAKE WATER USERS INC	08/11/1924	D	06N 34E 1 SWSE		75.000 CFS		Y	01
A31-00038	MUD LAKE WATER USERS INC	08/28/1924	D	06N 34E 1 SWSE		0.800 CFS		Y	01
A31-00363	MUD LAKE WATER USERS INC	08/28/1926	D	06N 34E 1 SWSE		6.400 CFS		Y	01
A31-00065	MUD LAKE WATER USERS INC	10/03/1910	D	06N 34E 1 SESE		1.600 CFS		Y	01
A31-00168	MUD LAKE WATER USERS INC	10/03/1910	D	06N 34E 1 SESE		1.600 CFS		Y	01
A31-00188	MUD LAKE WATER USERS INC	03/09/1911	D	06N 34E 1 SESE		1.600 CFS		Y	01
A31-00184	MUD LAKE WATER USERS INC	04/15/1912	D	06N 34E 1 SESE		80.800 CFS		Y	01

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WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	STG	POINT OF DIVERSION	FLG	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	USE
A31-00166	MUD LAKE WATER USERS INC	09/05/1912	D	06N 34E 1 SESE		1.720 CFS		Y	01
A31-00263	MUD LAKE WATER USERS INC	10/14/1912	D	06N 34E 1 SESE		2.680 CFS		Y	01
A31-00147A	MUD LAKE WATER USERS INC	07/21/1913	D	06N 34E 1 SESE		4.000 CFS		Y	01
A31-00052	MUD LAKE WATER USERS INC	09/06/1913	D	06N 34E 1 SESE		2.500 CFS		Y	01
A31-00104	MUD LAKE WATER USERS INC	10/18/1913	D	06N 34E 1 SESE		3.000 CFS		Y	01
A31-00105	MUD LAKE WATER USERS INC	12/15/1913	D	06N 34E 1 SESE		1.600 CFS		Y	01
A31-00162	MUD LAKE WATER USERS INC	06/01/1916	D	06N 34E 1 SESE		1.000 CFS		Y	01
A31-00159	MUD LAKE WATER USERS INC	06/24/1916	D	06N 34E 1 SESE		2.440 CFS		Y	01
A31-00185	MUD LAKE WATER USERS INC	12/02/1916	D	06N 34E 1 SESE		72.600 CFS		Y	01
A31-00185Z5	MUD LAKE WATER USERS INC	12/02/1916	D	06N 34E 1 SESE		72.600 CFS		Y	01
A31-00163	MUD LAKE WATER USERS INC	12/03/1916	D	06N 34E 1 SESE		1.000 CFS		Y	01
A31-00169	MUD LAKE WATER USERS INC	12/10/1917	D	06N 34E 1 SESE		1.600 CFS		Y	01
A31-00006	MUD LAKE WATER USERS INC	12/10/1917	D	06N 34E 1 SESE		1.400 CFS		Y	01
A31-00237	MUD LAKE WATER USERS INC	11/28/1919	D	06N 34E 1 SESE		2.400 CFS		Y	01
A31-00034	MUD LAKE WATER USERS INC	05/01/1920	D	06N 34E 1 SESE		3.200 CFS		Y	01
A31-00035	MUD LAKE WATER USERS INC	05/01/1921	D	06N 34E 1 SESE		6.400 CFS		Y	01
A31-00187	MUD LAKE WATER USERS INC	05/01/1921	D	06N 34E 1 SESE		25.000 CFS		Y	01
A31-00036	MUD LAKE WATER USERS INC	05/01/1922	D	06N 34E 1 SESE		9.600 CFS		Y	01
A31-00037	MUD LAKE WATER USERS INC	05/01/1923	D	06N 34E 1 SESE		6.400 CFS		Y	01
A31-00232	MUD LAKE WATER USERS INC	05/01/1923	D	06N 34E 1 SESE		1.600 CFS		Y	01
A31-00186	MUD LAKE WATER USERS INC	08/11/1924	D	06N 34E 1 SESE		75.000 CFS		Y	01
A31-00038	MUD LAKE WATER USERS INC	08/28/1924	D	06N 34E 1 SESE		0.800 CFS		Y	01
A31-00363	MUD LAKE WATER USERS INC	08/28/1926	D	06N 34E 1 SESE		6.400 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 34E 5 NESE		10.000 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 34E 11 NESE		10.000 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 34E 16 NWNW		10.000 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 34E 18 NENE		10.000 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 34E 18 NESE		10.000 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 34E 24 SENE		10.000 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 34E 24 SWSW		10.000 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 34E 24 SESE		10.000 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 35E 19 NENE		10.000 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 35E 19 SESE		10.000 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 34E 13 SWNE		13.260 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 34E 13 NWSE		13.260 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 34E 13 SWSE		13.260 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 34E 18 SWSW		13.260 CFS		Y	01
A31-00065	MUD LAKE WATER USERS INC	10/03/1910	D	07N 34E 34 SWSW		1.600 CFS		Y	01
A31-00168	MUD LAKE WATER USERS INC	10/03/1910	D	07N 34E 34 SWSW		1.600 CFS		Y	01
A31-00188	MUD LAKE WATER USERS INC	03/09/1911	D	07N 34E 34 SWSW		1.600 CFS		Y	01
A31-00184	MUD LAKE WATER USERS INC	04/15/1912	D	07N 34E 34 SWSW		80.800 CFS		Y	01
A31-00166	MUD LAKE WATER USERS INC	09/05/1912	D	07N 34E 34 SWSW		1.720 CFS		Y	01
A31-00263	MUD LAKE WATER USERS INC	10/14/1912	D	07N 34E 34 SWSW		2.680 CFS		Y	01
A31-00147A	MUD LAKE WATER USERS INC	07/21/1913	D	07N 34E 34 SWSW		4.000 CFS		Y	01
A31-00052	MUD LAKE WATER USERS INC	09/06/1913	D	07N 34E 34 SWSW		2.500 CFS		Y	01
A31-00104	MUD LAKE WATER USERS INC	10/18/1913	D	07N 34E 34 SWSW		3.000 CFS		Y	01
A31-00105	MUD LAKE WATER USERS INC	12/15/1913	D	07N 34E 34 SWSW		1.600 CFS		Y	01
A31-00162	MUD LAKE WATER USERS INC	06/01/1916	D	07N 34E 34 SWSW		1.000 CFS		Y	01

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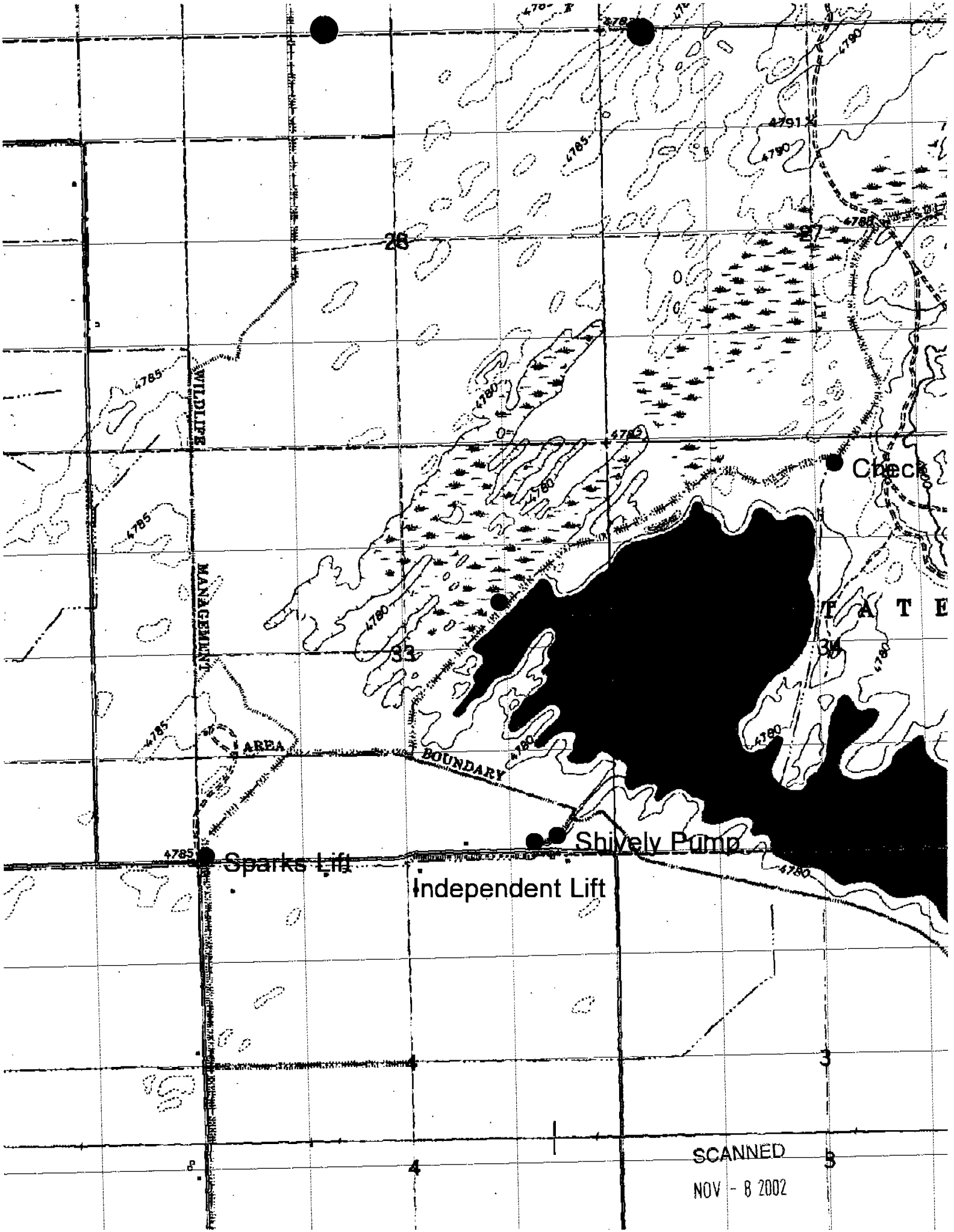
NOV - 8 2002

*MPOD: Y = Multiple Pts of Diversion, Pod Diversion Rate(s) is 0
U = Multiple Pts of Diversion, Pod Diversion Rate(s) Not 0
N = No Multiple Pts of Diversion (1 or less)

WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	STG	POINT OF DIVERSION	FLG	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	USE
A31-00159	MUD LAKE WATER USERS INC	06/24/1916	D	07N 34E 34 SWSW		2.440 CFS		Y	01
A31-00185	MUD LAKE WATER USERS INC	12/02/1916	D	07N 34E 34 SWSW		72.600 CFS		Y	01
A31-00185Z5	MUD LAKE WATER USERS INC	12/02/1916	D	07N 34E 34 SWSW		72.600 CFS		Y	01
A31-00163	MUD LAKE WATER USERS INC	12/03/1916	D	07N 34E 34 SWSW		1.000 CFS		Y	01
A31-00006	MUD LAKE WATER USERS INC	12/10/1917	D	07N 34E 34 SWSW		1.400 CFS		Y	01
A31-00169	MUD LAKE WATER USERS INC	12/10/1917	D	07N 34E 34 SWSW		1.600 CFS		Y	01
A31-00237	MUD LAKE WATER USERS INC	11/28/1919	D	07N 34E 34 SWSW		2.400 CFS		Y	01
A31-00034	MUD LAKE WATER USERS INC	05/01/1920	D	07N 34E 34 SWSW		3.200 CFS		Y	01
A31-00035	MUD LAKE WATER USERS INC	05/01/1921	D	07N 34E 34 SWSW		6.400 CFS		Y	01
A31-00187	MUD LAKE WATER USERS INC	05/01/1921	D	07N 34E 34 SWSW		25.000 CFS		Y	01
A31-00036	MUD LAKE WATER USERS INC	05/01/1922	D	07N 34E 34 SWSW		9.600 CFS		Y	01
A31-00037	MUD LAKE WATER USERS INC	05/01/1923	D	07N 34E 34 SWSW		6.400 CFS		Y	01
A31-00232	MUD LAKE WATER USERS INC	05/01/1923	D	07N 34E 34 SWSW		1.600 CFS		Y	01
A31-00186	MUD LAKE WATER USERS INC	08/11/1924	D	07N 34E 34 SWSW		75.000 CFS		Y	01
A31-00038	MUD LAKE WATER USERS INC	08/28/1924	D	07N 34E 34 SWSW		0.800 CFS		Y	01
A31-00363	MUD LAKE WATER USERS INC	08/28/1926	D	07N 34E 34 SWSW		6.400 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 35E 19 NENW		13.260 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 35E 19 NWNW		13.260 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 35E 19 SWNW		13.260 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 35E 19 SENW		13.260 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 35E 24 NENE		13.260 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 35E 24 NWNE		13.260 CFS		Y	01
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 35E 24 NWNW		13.260 CFS		Y	01
A31-00328	MUD LAKE WATER USERS INC	09/05/1912	D	07N 35E 25 SESW		100.000 CFS		Y	01
A31-00328	MUD LAKE WATER USERS INC	09/05/1912	D	07N 35E 25 NESE		100.000 CFS		Y	01
A31-00328	MUD LAKE WATER USERS INC	09/05/1912	D	07N 35E 25 SWSE		100.000 CFS		Y	01



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NOV - 8 2002

ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Shaun Grover

Claim Number MLWUA

Type of Feature Diversion Rediversion (Other) Lift

Name of Feature Owsley Main Lift

GPS Filename None - USGS map adequate

Offset (Inst. To Feature)

Tag Number none

Tag Location

Narrative

Lift = 4-5 ft today - lake level = 5.0 (11.9 @ USGS) per Shaun Grover. Per my estimation = 14 ft. Per Garth Soderquist lift 12'-15'

3 x 200 + 1 x 150 = 750 HP

UPL D1588 626 ABB

Demand 5.95 x 80 ≈ 476 KW

per Shaun the gauge here is 0.10 ft off of USGS- lower ?

roll 1 phot 1

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NOV - 8 2002

ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Shawn [illegible]

Claim Number [illegible]

Type of Feature Diversion Rediversion

Other Lift

Name of Feature Owsley [illegible]

GPS Filename [illegible] - USGS [illegible]

Offset (Inst. To Feature)

Tag Number [illegible]

Tag Location

Narrative

Lift = 4-5 ft today [illegible] level = 5.0 [illegible]

per Shawn [illegible]

[illegible] 14 ft, [illegible]

3 x 200 + 1 x 150 = 750 HP

UPL 01 588 626 [illegible]

[illegible] 5.95 x 80 = 476 [illegible]

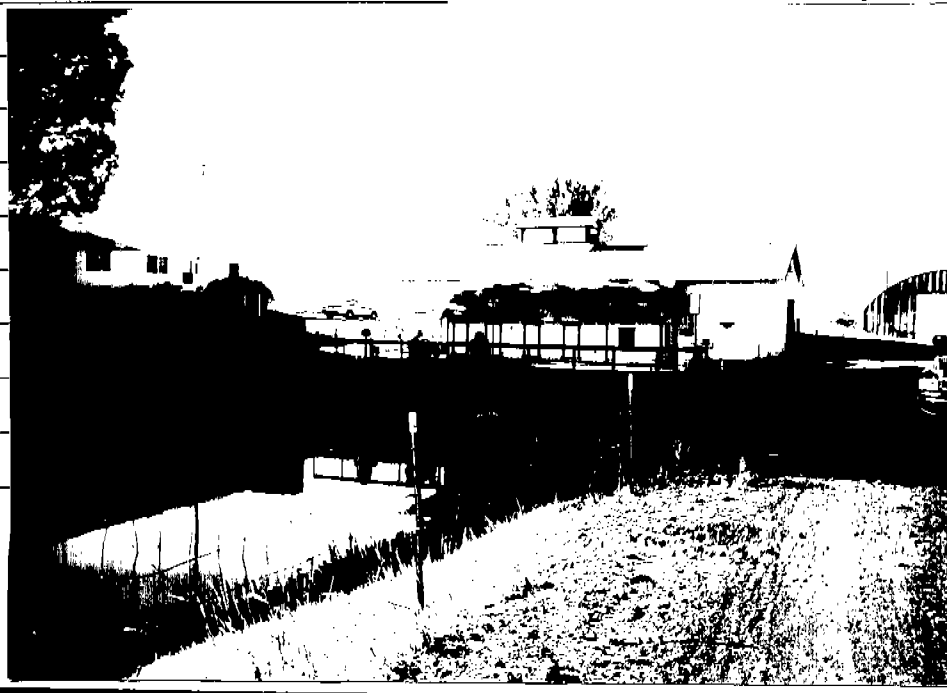
per Shawn the

gauge here is

[illegible]

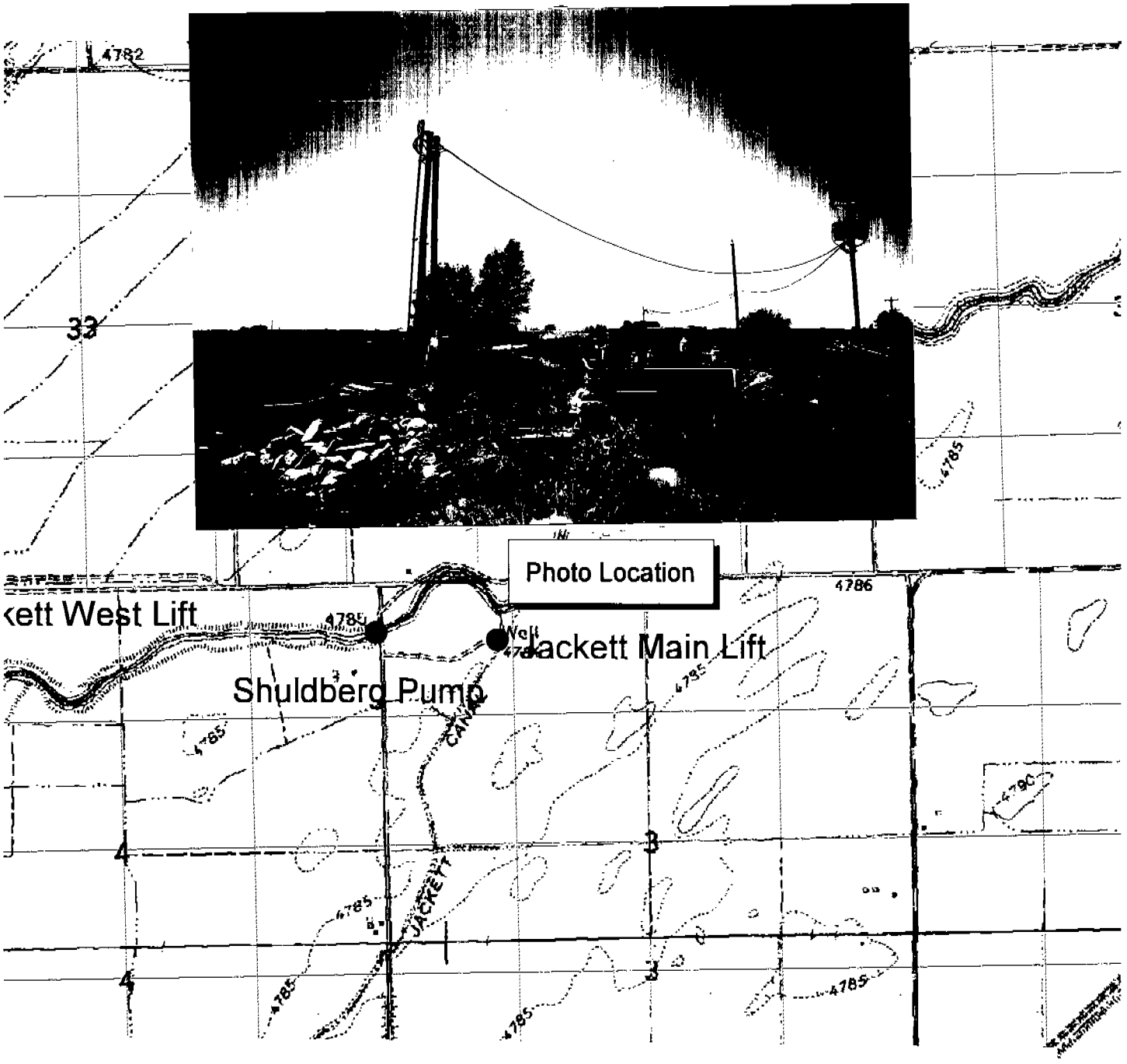
USGS - lower 2

roll 1 pho 1



Locator Map for Photograph

Jackett Main Lift



AJ Field Inspection Photos 7/5/00 B. Contor

Jackett Main Lift, 6N 35E 3 NW ¼, looking South. Diversion from creek is approximately 300 - 350 feet N NW.

Mud Lake Water Users Surface and GW claims.

Site tag A0008620

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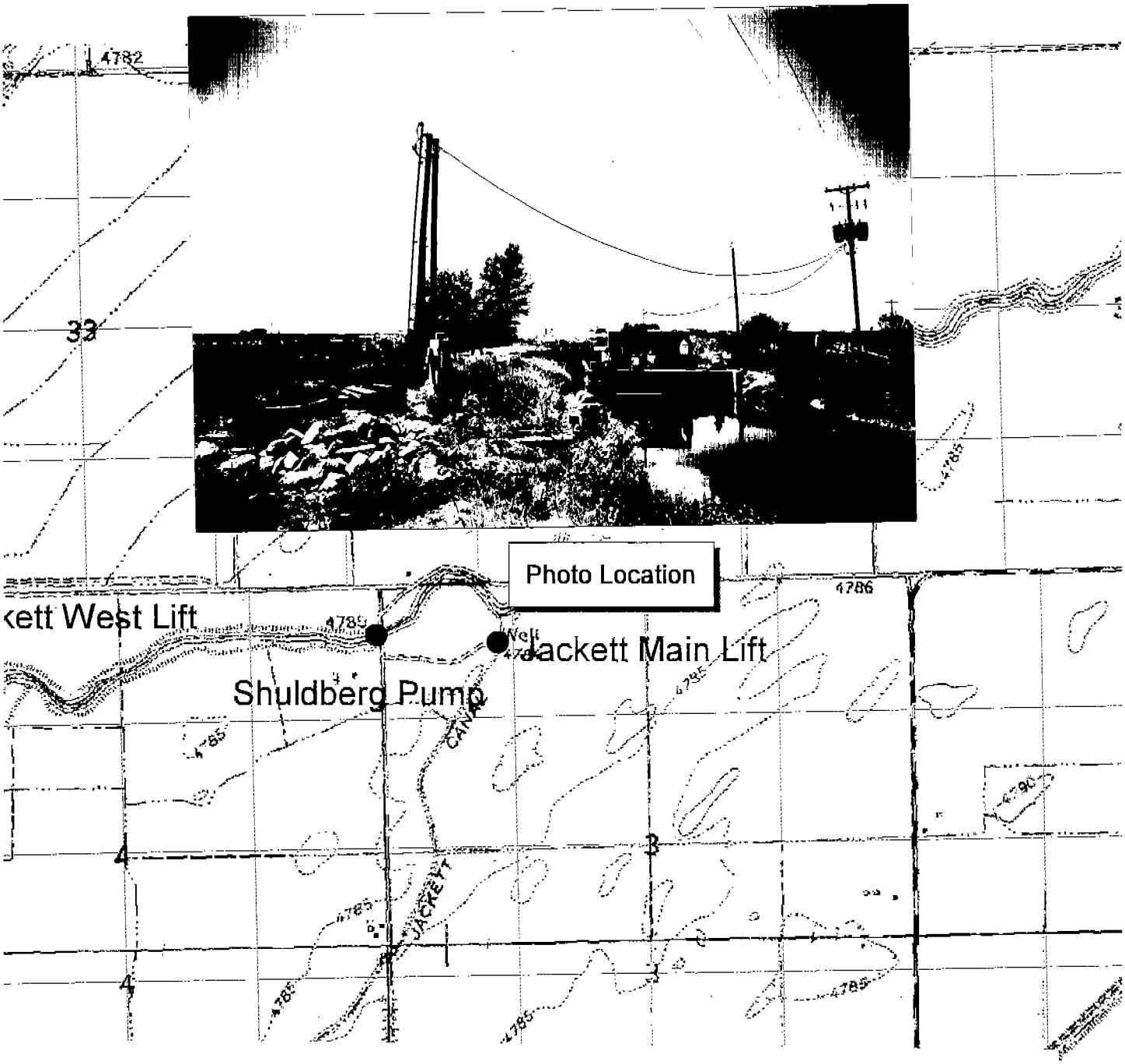
Locator Map for Photograph

Jackett Main Lift



AJ Field Inspection Photos 7/5/00 B. Contor

Jackett Main Lift, 6N 35E 3 NW ¼, looking South. Diversion from creek is approximately 300 - 350 feet N NW.

Mud Lake Water Users Surface and GW claims.

Site tag A0008620

ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWVA

Type of Feature (Diversion) Rediversion

Other

Name of Feature Jackett Main Lift

GPS Filename R070518B

Offset (Inst. To Feature) Zero (see notes)

Tag Number A000 8620

Tag Location pole w/ meter on W side of lift

Narrative

8 pumps, 2 pressurized & 6 open disch.
Estimate open disch. lift ≈ 10 ft.

Pump 7 pressurized 50 hp nameplate
Landis & Gyr 43.77 KW 33 243 938

pump 8 pressurized 50 hp nameplate
Westinghouse 79 785 439 49.11 KW

Other pumps 1.73 x 40 Schlumberger 84860555

pump 1 30 nameplate
pump 2 25 "
" 3 30 "
" 4 25 "
" 5 50 "
pump 6 15 "

See reverse for sketch

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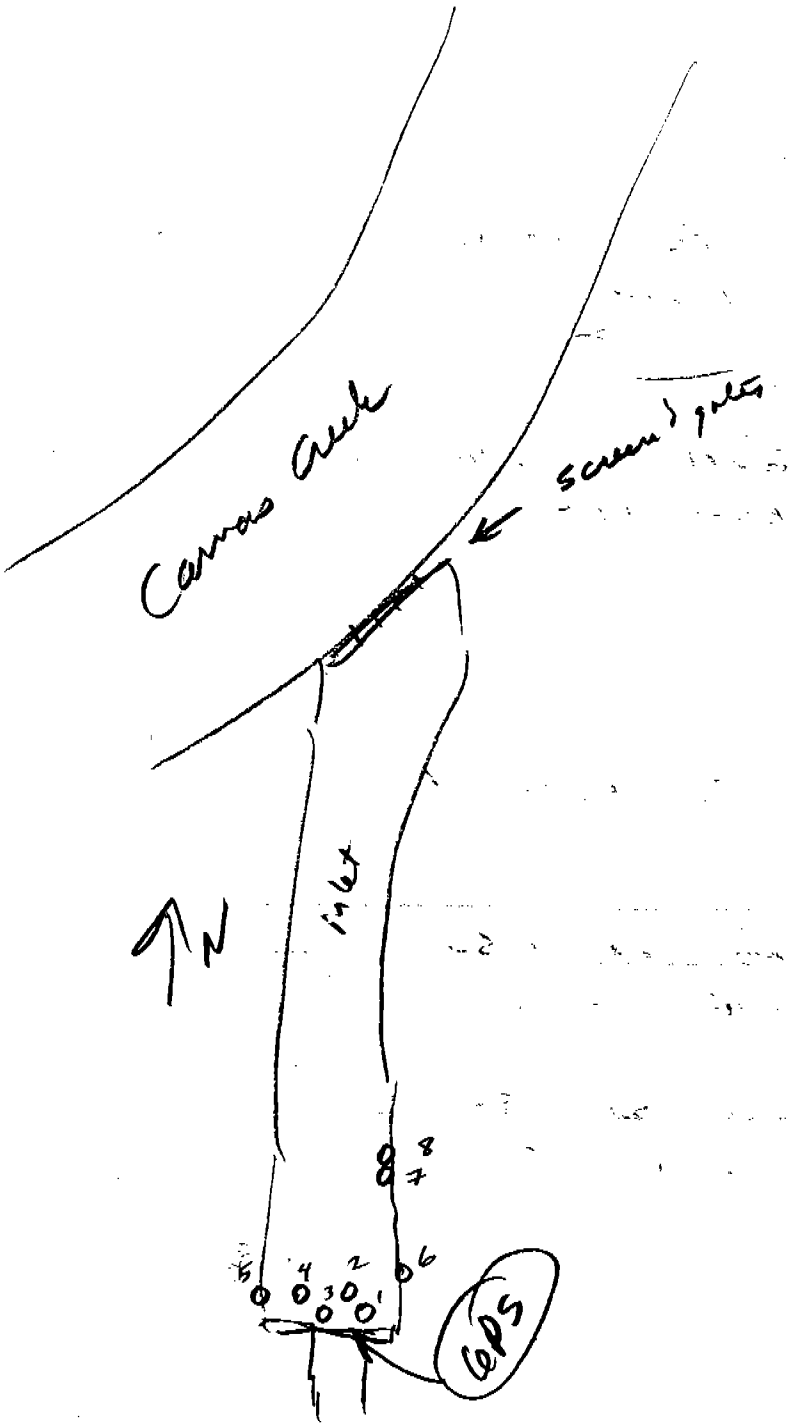
NOV - 8 2002



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7/5/00 Meter check

Fackett Lift

55 hp connected #2 & #3

$N = 3$ $\quad +\!= (56.6 + 56.4 + 56.0)/3$

$$KW = \frac{3.6 \times 4.8 \times 40 \times 3}{56.3} \simeq 36.8 \text{ KW}$$

$36.8 \text{ KW} \times 1.34 \simeq 49.3$ input HP

$49.3 \times 0.90 \simeq 44$ shaft HP

This is reasonable; pump #2 has very cool motor, motor likely underloaded.

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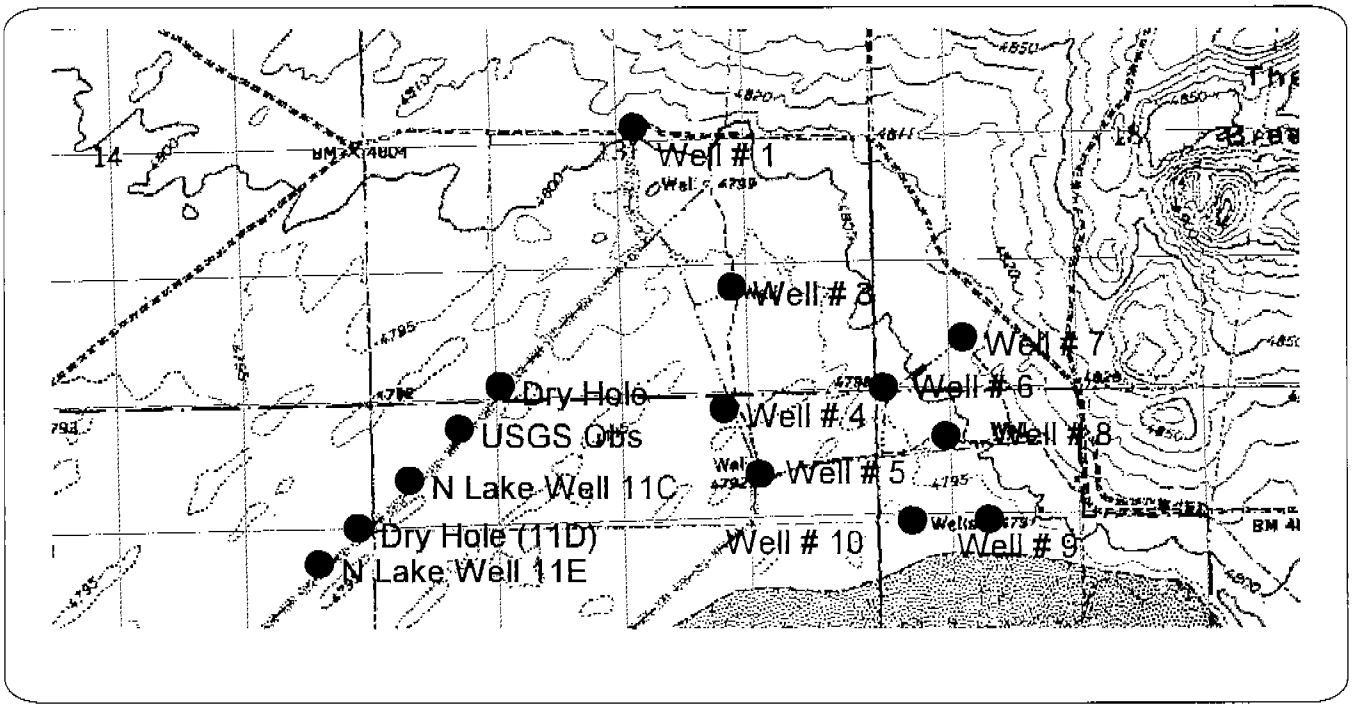
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well # 10 A0008619
Motor nameplate 100 HP
Mud Lake Water Users GW claims
photo by B. Coutor

ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWUA

Type of Feature (Diversion) Rediversion

Other

Name of Feature Well # 10 North Lake

GPS Filename R0705 18A

Offset (Inst. To Feature) 290° 2½ meters

Tag Number A000 8619

Tag Location pole w/ motor panel

Narrative

Motor nameplate 100 HP

Same KWH meter as well #6

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NOV - 4 2002

ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWUA

Type of Feature (Diversion) Rediversion

Other

Name of Feature Well # 8 North Lake

GPS Filename R070517G

Offset (Inst. To Feature) 285° 2 1/2 meters

Tag Number A0008617

Tag Location pole w/ meter panel

Narrative

Same power meter as # 6. Meter located @ well # 8

Motor nameplate 75 hp.

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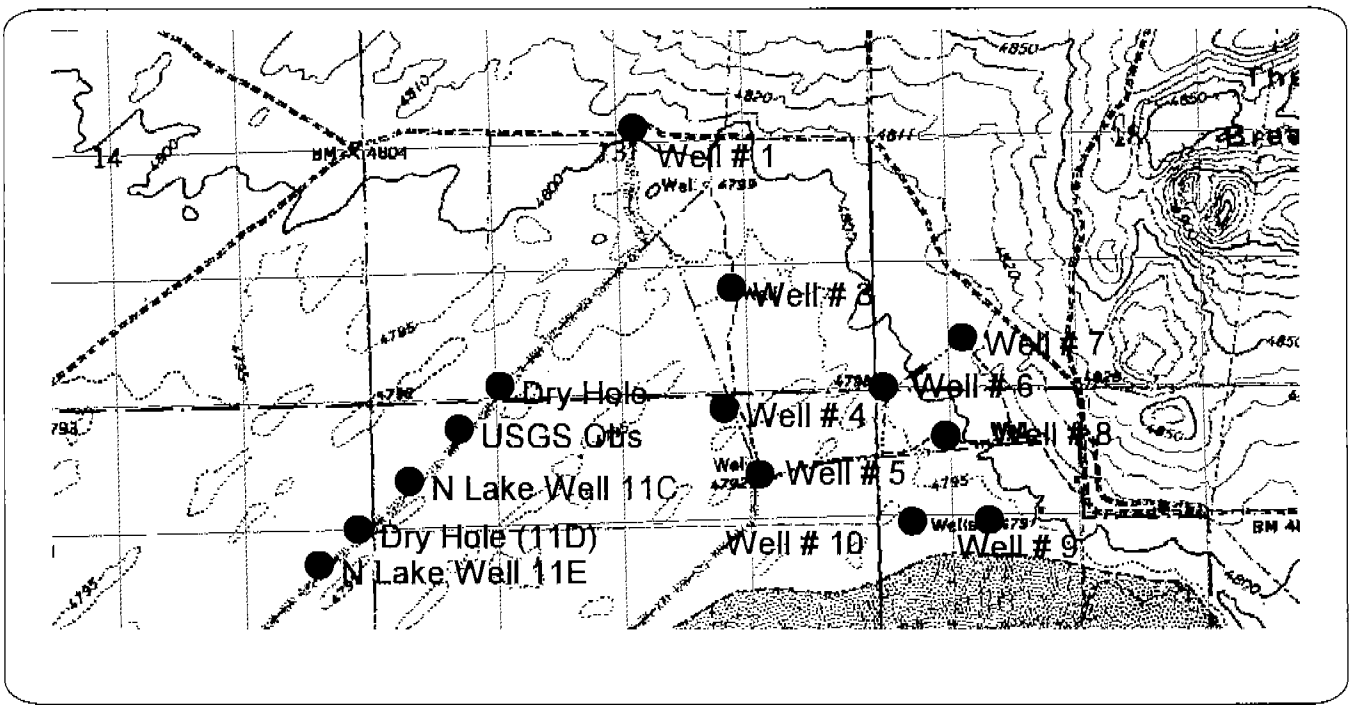
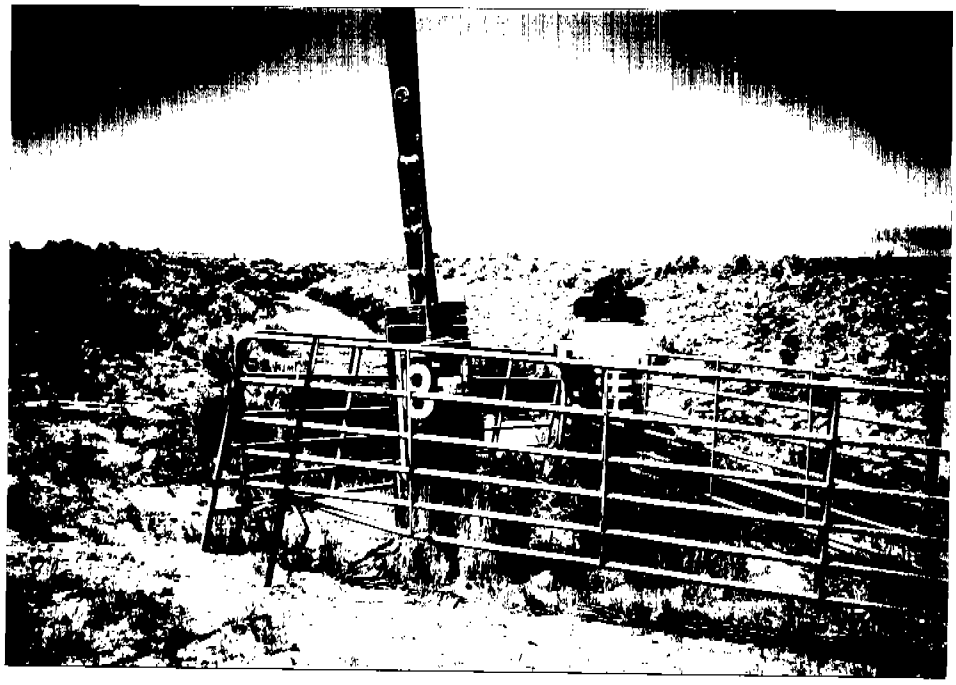
AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E

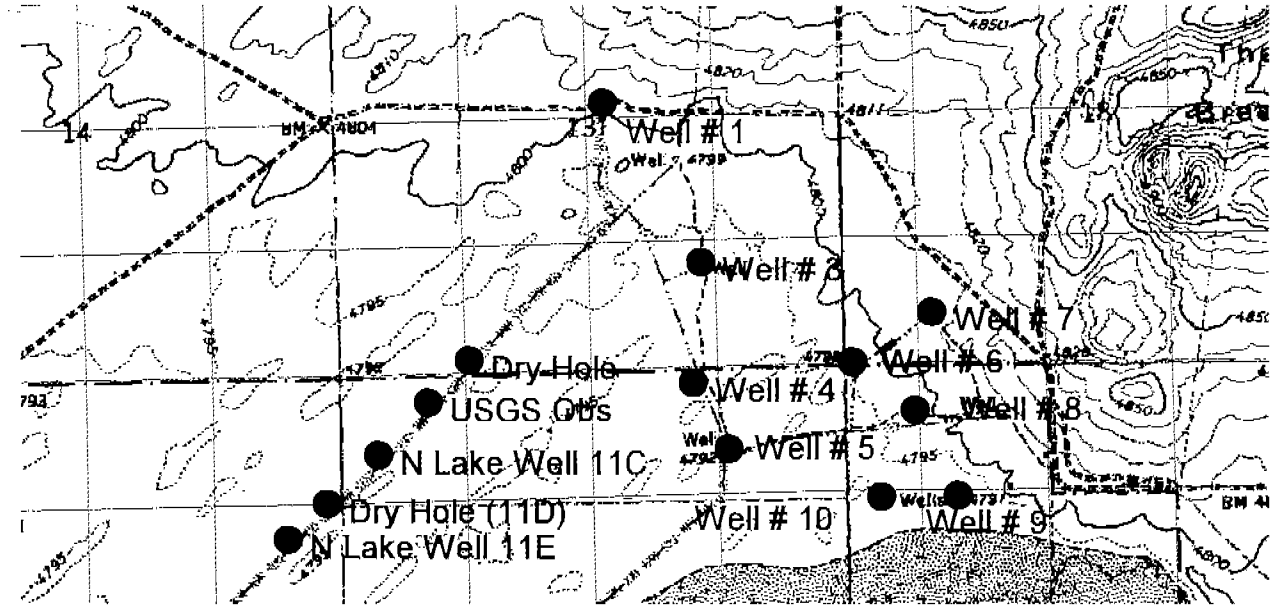


Well #8 A0008617
Motor nameplate 75 hp.
Mud Lake Water Users GW Claims
photo by B. Contor



AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E

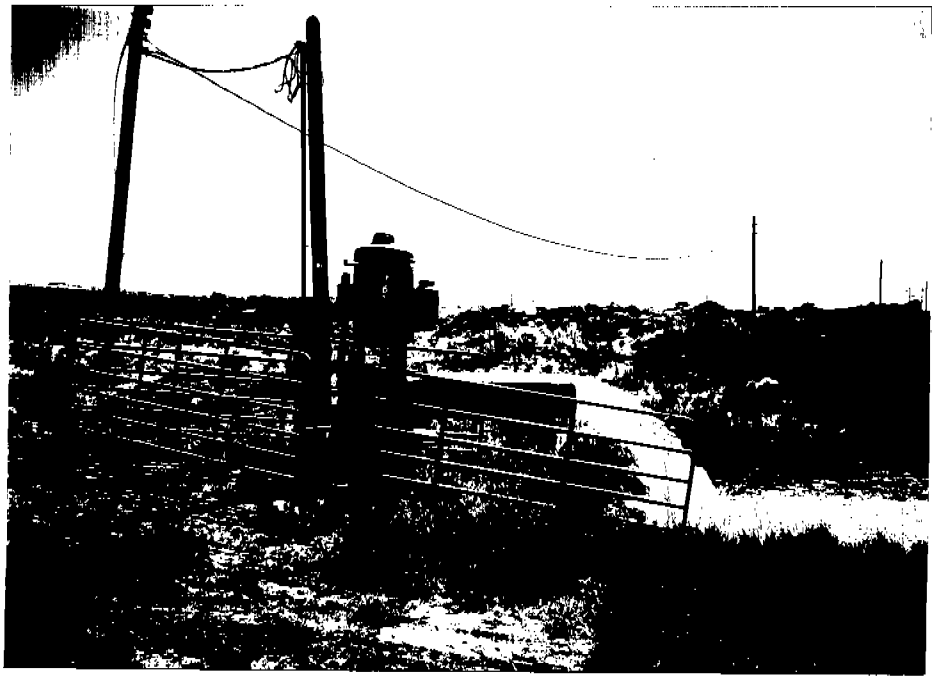


Well #6 A0008615

Motor nameplate 100 hp.

Mud Lake Water Users GW Claims

photo by B. Contor



ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/2000

Accompanied by Peter Fisher

Claim Number MLWUA

Type of Feature (Diversion) Rediversion

Other

Name of Feature North Lake well # 6

GPS Filename R070517E

Offset (Inst. To Feature) 224° 1½ meters

Tag Number A0008615

Tag Location pole w/ motor panel

Narrative

Motor nameplate 100 horsepower

Several wells on one power meter

Meter located @ well #8

ABB 1837-925

Kw 10.98 x 40

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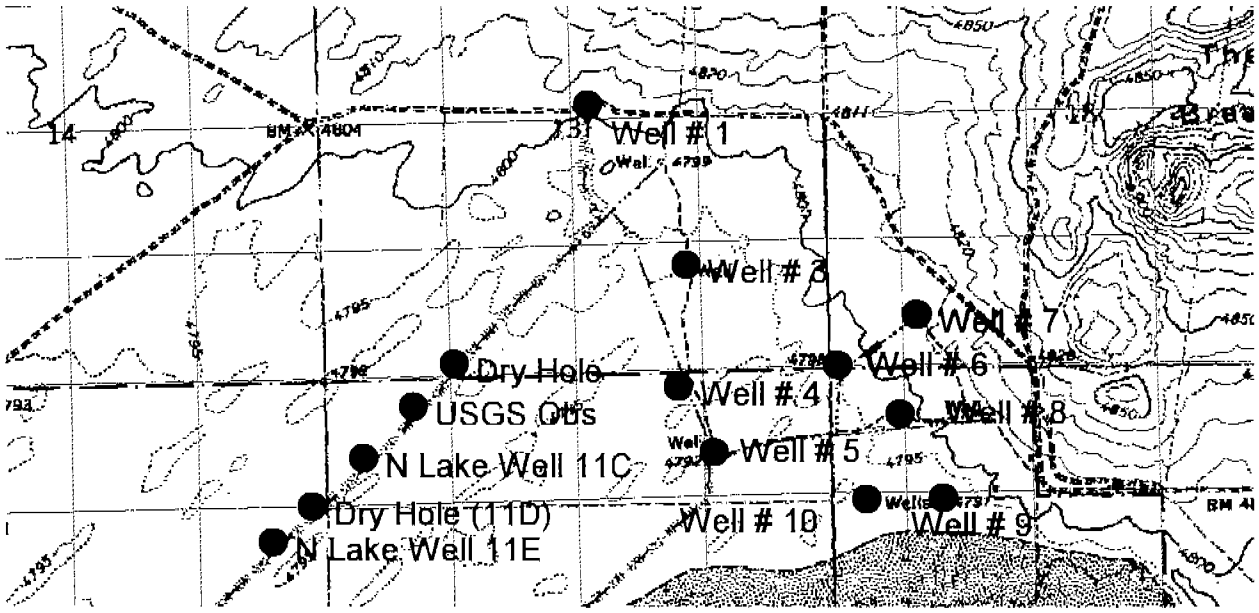
AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well #7 A0008616
Motor nameplate 125 hp.
Mud Lake Water Users GW claims
photo by B. Coutor

ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number Well #7 North Lake MLWUA

Type of Feature (Diversion) Rediversion

Other

Name of Feature Well #7 North Lake

GPS Filename R070517F

Offset (Inst. To Feature) 325° 8 1/2 meters

Tag Number A0008616

Tag Location pole w/ motor panel

Narrative

Motor name plate 125 HP

same power meter as well #6

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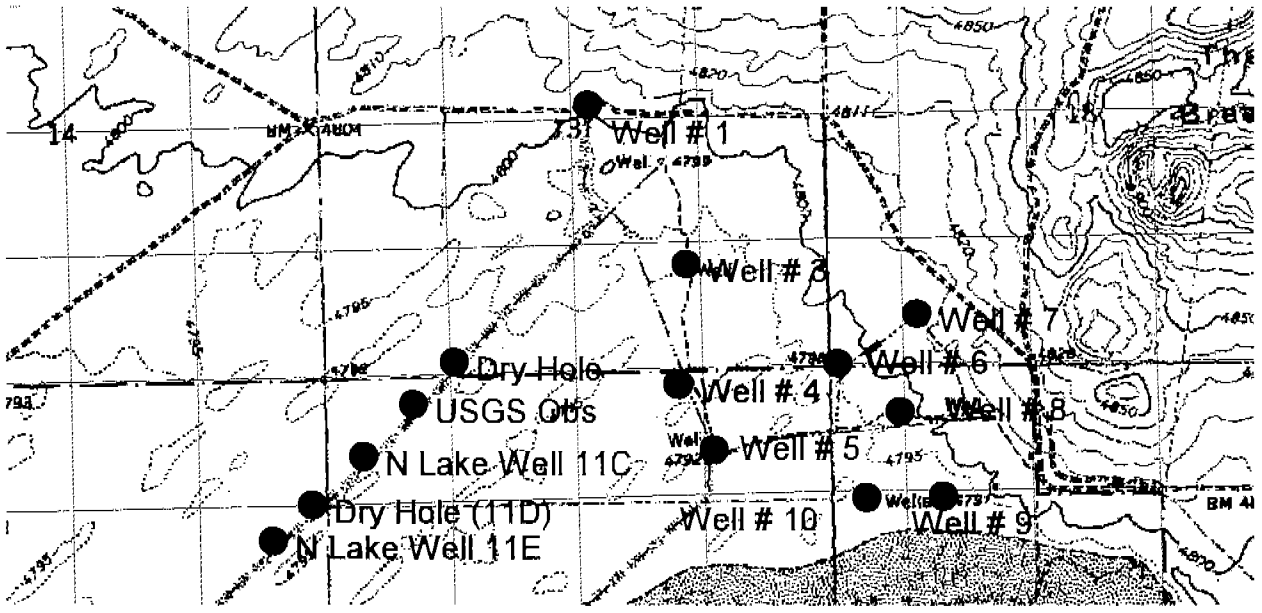
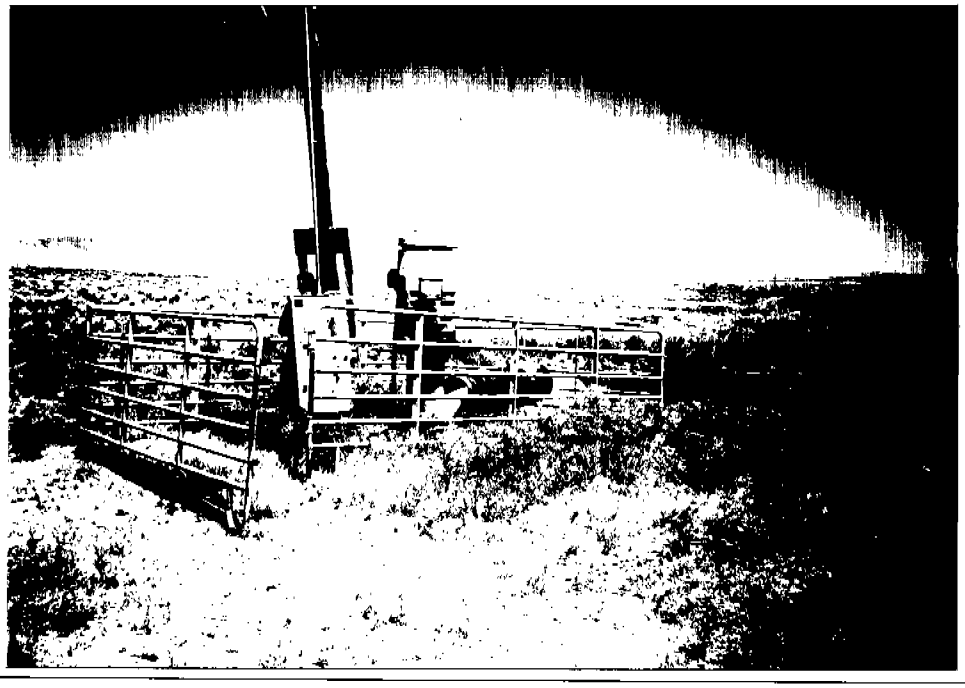
AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well # 4 A0008614
Motor nameplate 75 hp.
Mud Lake Water Users GW claims
photo by B. Contor



ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWUA

Type of Feature (Diversion) Rediversion

Other

Name of Feature Well #4 North Lake

GPS Filename R0705I7D

Offset (Inst. To Feature) 24° 1½ meters

Tag Number A0008614

Tag Location pole w/ motor panel

Narrative UDL Sangamo 44 507 607

KWH 39962 x 80

KW 1.48 x 80

This meter also serves well #5

Motor nameplate 75 hp.

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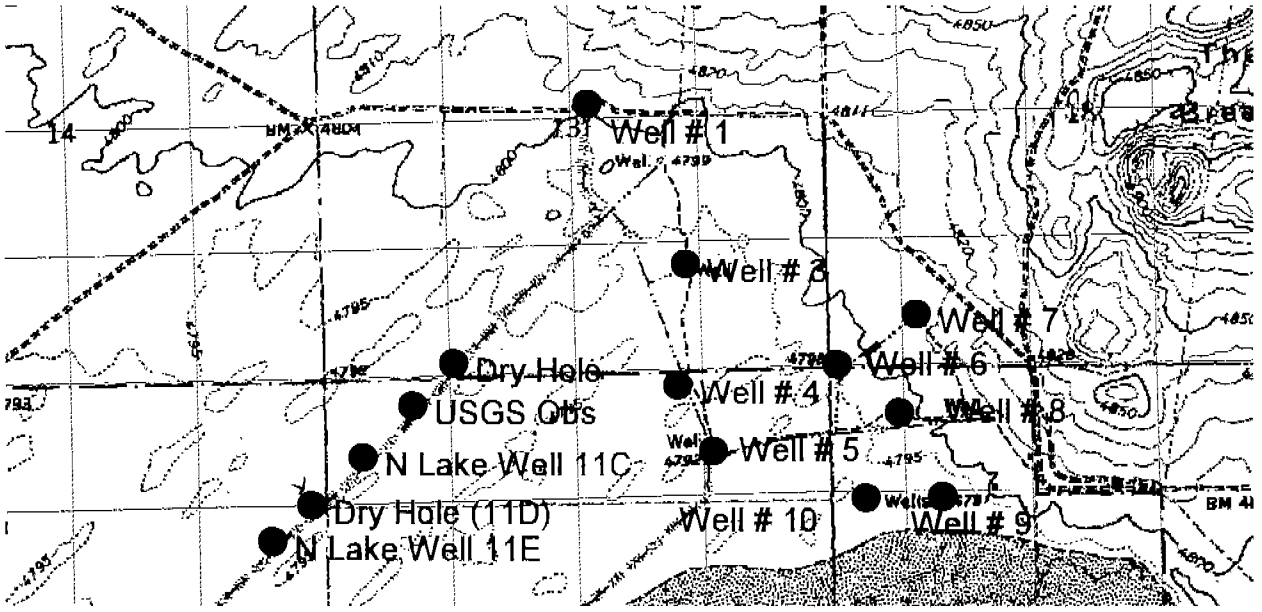
AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well # 9 A0008619
Motor nameplate 100
Mud Lake Water Users GW Claims
photo by B. Conton

ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWUA

Type of Feature (Diversion) Rediversion

Other _____

Name of Feature Well # 9 North Lake

GPS Filename R0705174

Offset (Inst. To Feature) 175° 2 meters

Tag Number A0008618

Tag Location pole w/ motor panel

Narrative

Motor nameplate 100

Same power meter as well # 6

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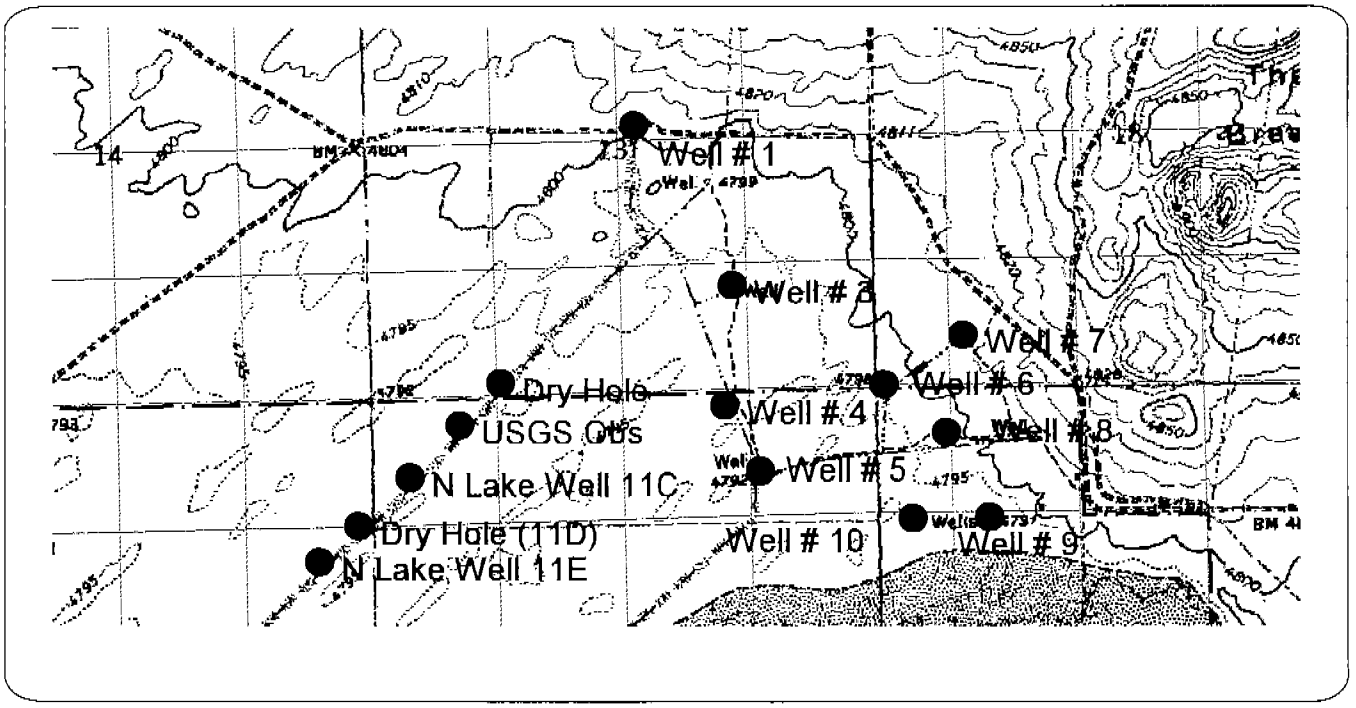
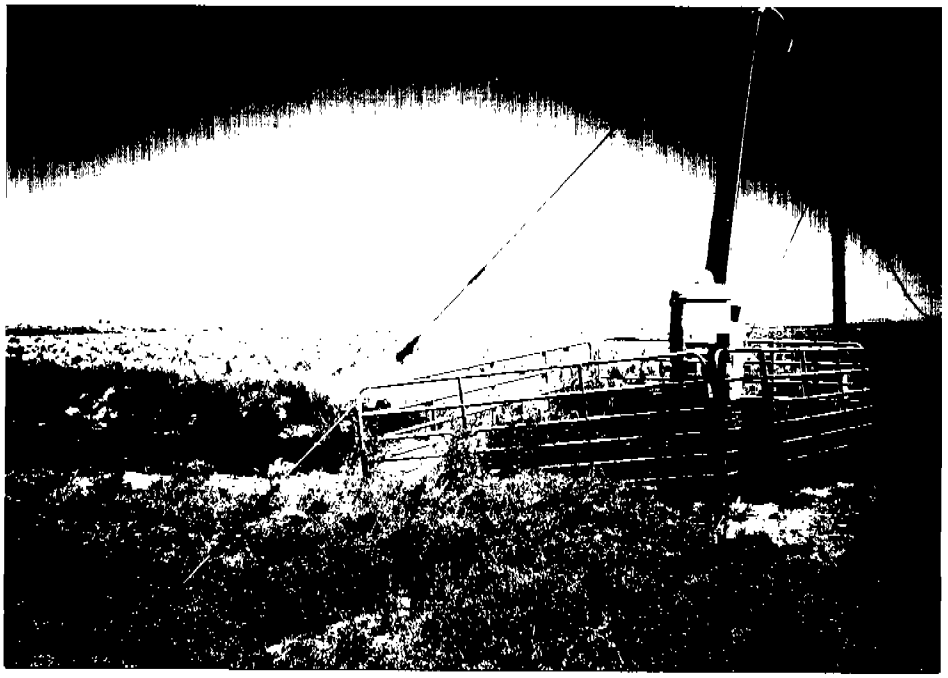
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well # 3 A0008612
Motor nameplate 75 hp
Mud Lake Water Users GW
claims.
Photo by B. Coulter



ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWUA

Type of Feature (Diversion) Rediversion

Other _____

Name of Feature Well # 3 No. 14 Lake

GPS Filename R070517B

Offset (Inst. To Feature) 1½ meter

Tag Number A0008612

Tag Location power pole 40' NW of well

Narrative _____

UPL 6 E 90 114 224

1.61 x 40 Demand

Motor nameplate 75 hp

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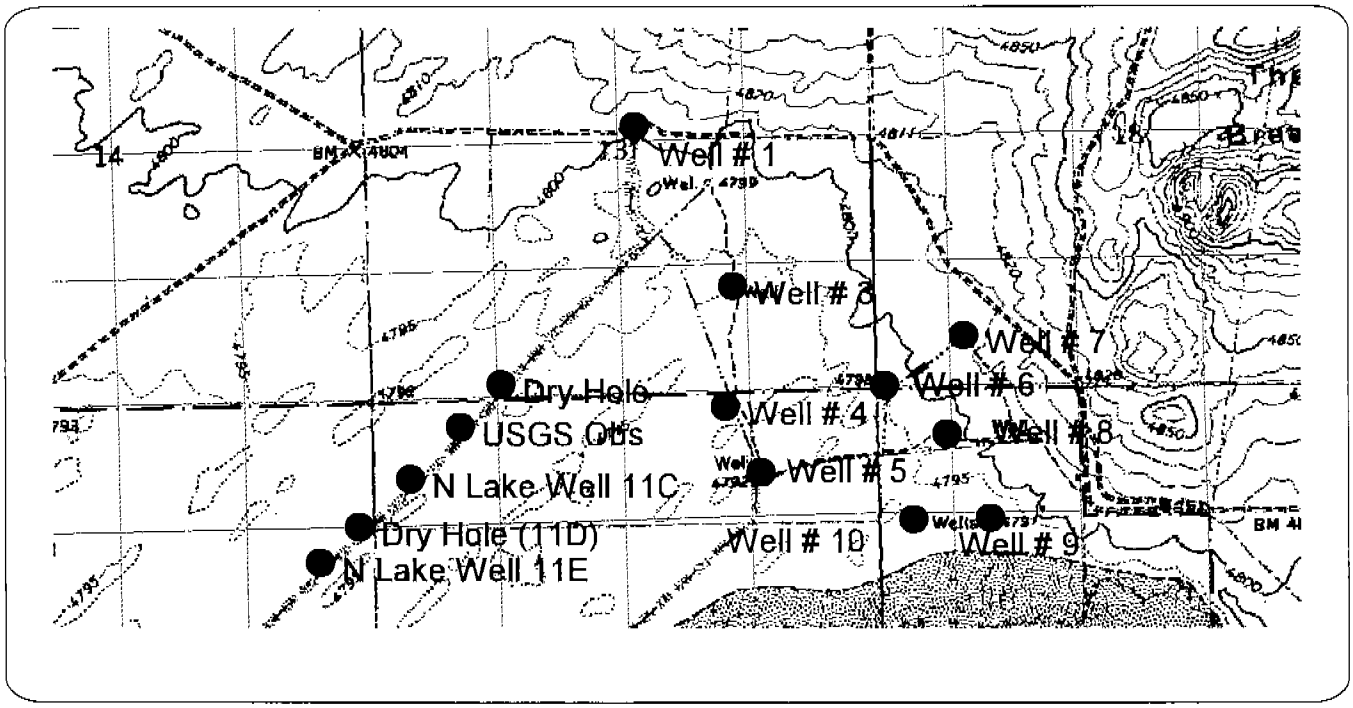
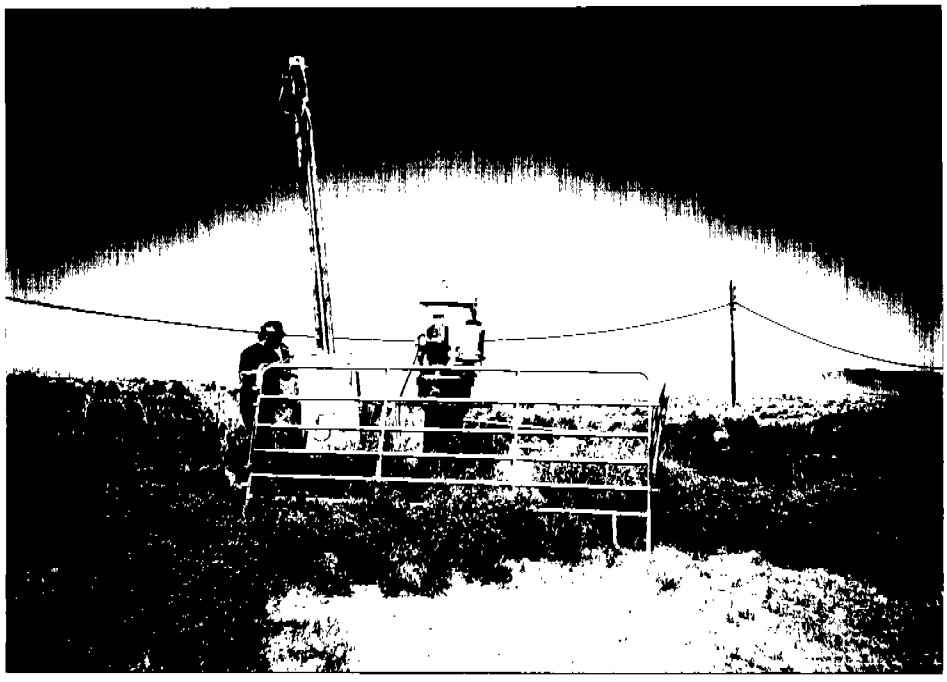
AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



Well #5 A0008613
Motor nameplate 75 hp
Mud Lake Water Users GW claims
photo by B. Courton



ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWUA

Type of Feature Diversion Rediversion

Other

Name of Feature Well #5 North Lake

GPS Filename A070517C

Offset (Inst. To Feature) 25° 2 meters

Tag Number A0008613

Tag Location pole w/ motor panel

Narrative

This well & well #4 share KWH meter -
See well #4

Motor 75 hp nameplate

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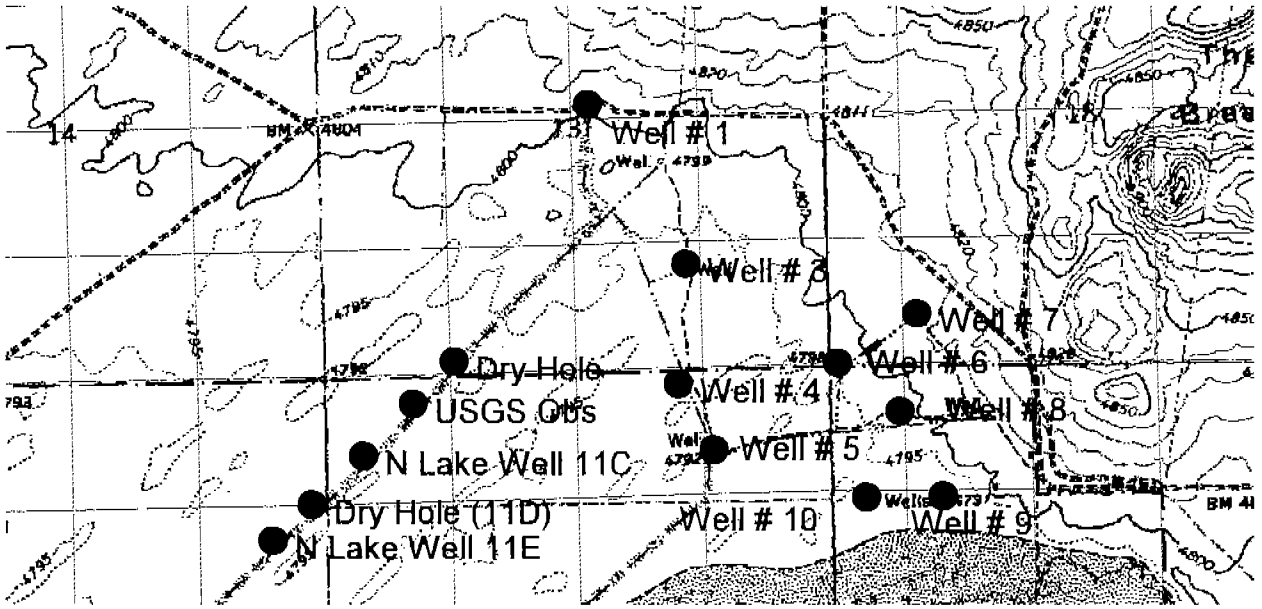
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E

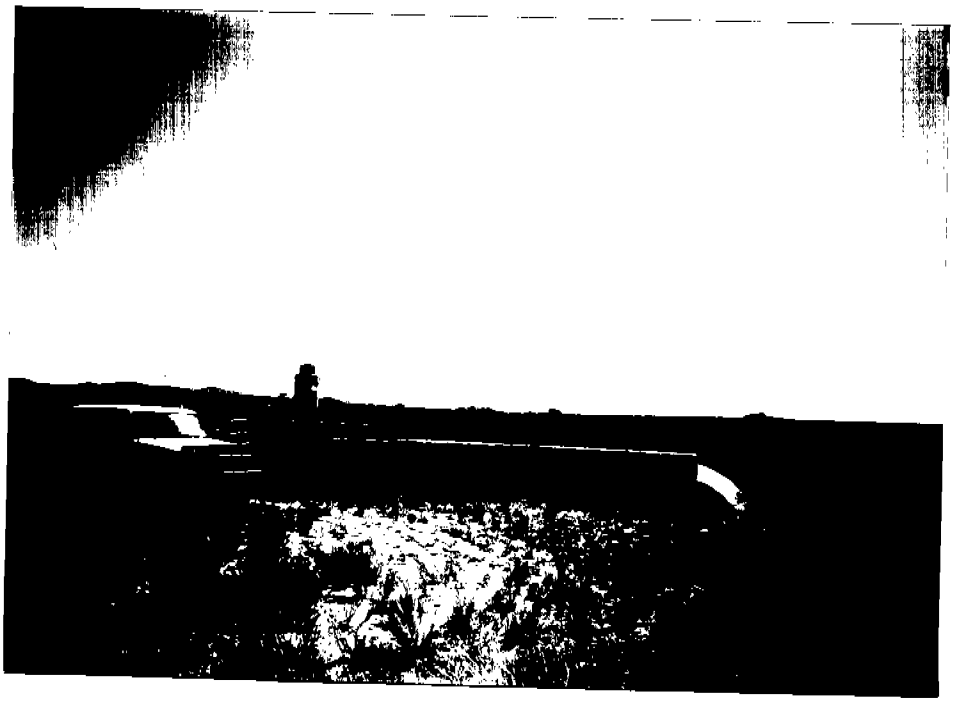


Well 11E A0008611

Motor hp 200 (nameplate)

Mud Lake Water Users GW claims

photo by B. Coulton



ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number NLWVA

Type of Feature (Diversion) Rediversion

Other

Name of Feature North Lake Well 11E

GPS Filename R0705160

Offset (Inst. To Feature) 89° 2 meters

Tag Number A000 8611

Tag Location Power pole

Narrative

UPL ABB 1339 485

Demand 4.01 X 40

motor 900 hp

Approx 0.9 mile SW of well #1

along pole line

USGS Abs well (11B)

7N 34E 24 BBA 1

GPS R0705174

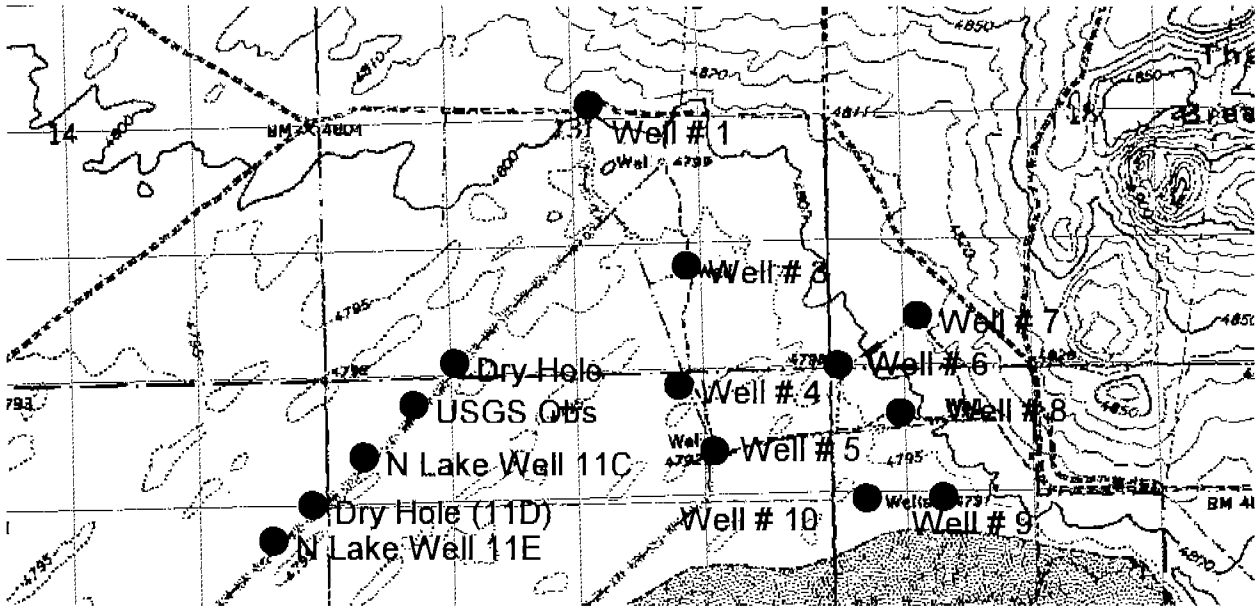
Offset zero.

SCANNED

NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E



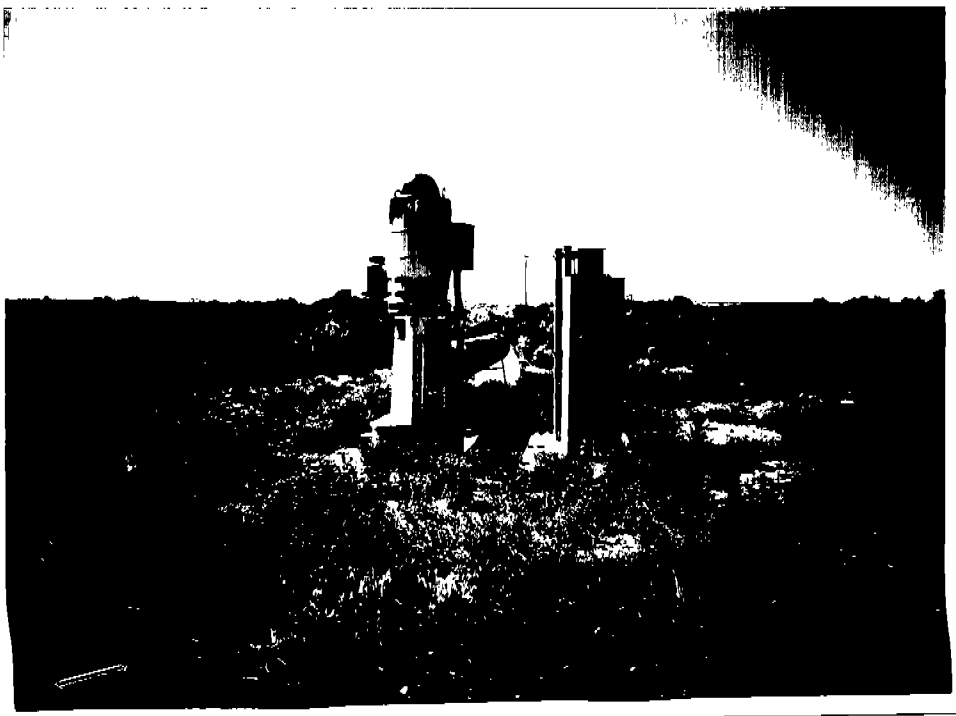
Well 11C A0008610

Motor hp not recorded,

200 hp per claimants' list

Mud lake Water Users GW claims

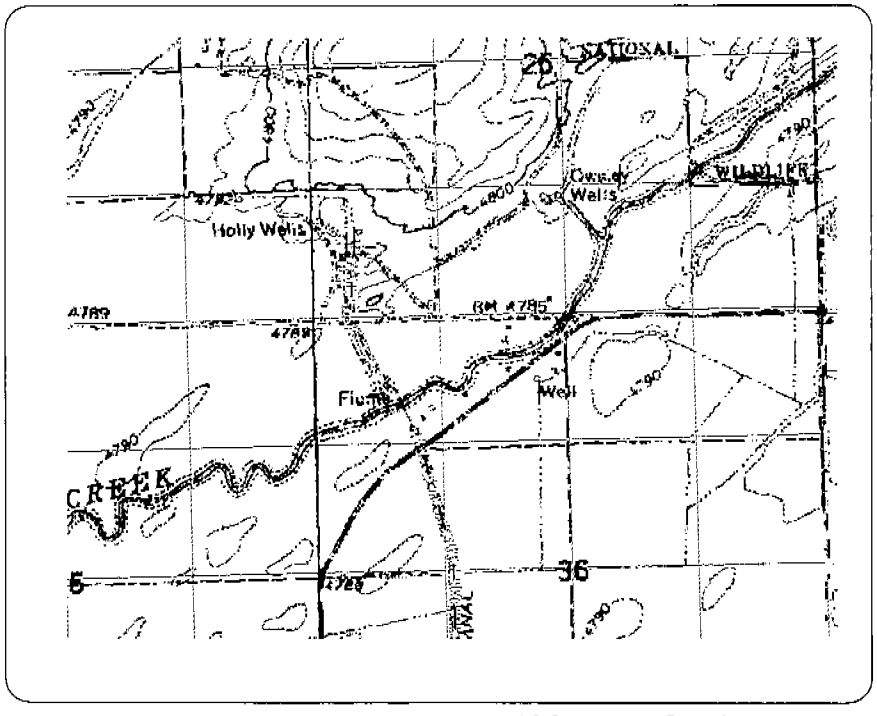
photo by B. Coulter



Locator Map for Photograph

Holley Flume and Pumps

7N 35E 36 NW 1/4



AJ Field Inspection Photos 7/5/00 B. Contor

Holley Flume and Pumps, 7N 35E 36 NW ¼, looking North.

Mud Lake Water Users Surface and GW claims.

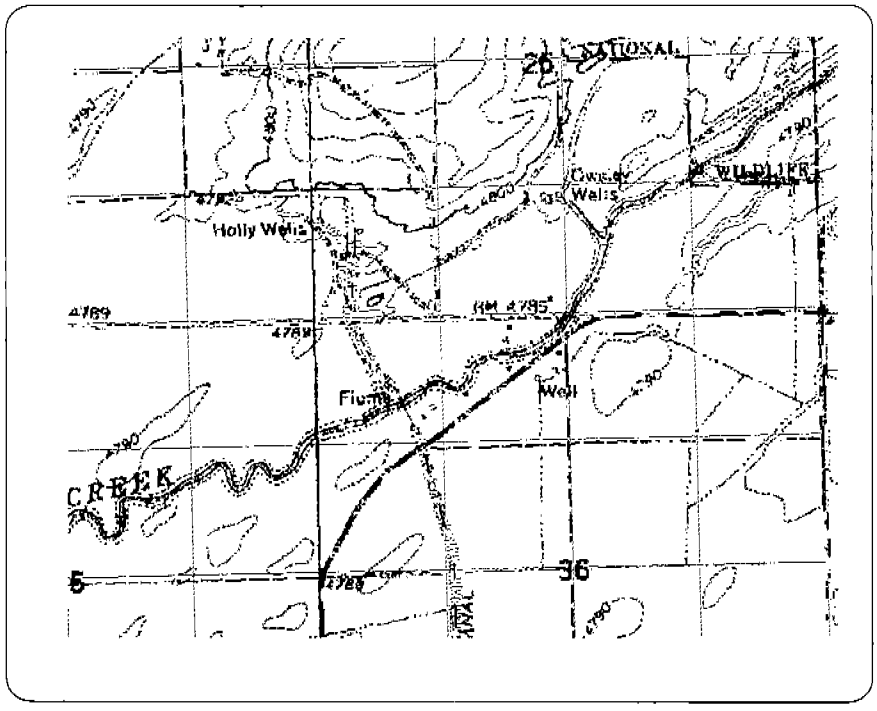
from Camas Creek (#9)

from Well (#8)

Locator Map for Photograph

Holley Flume and Pumps

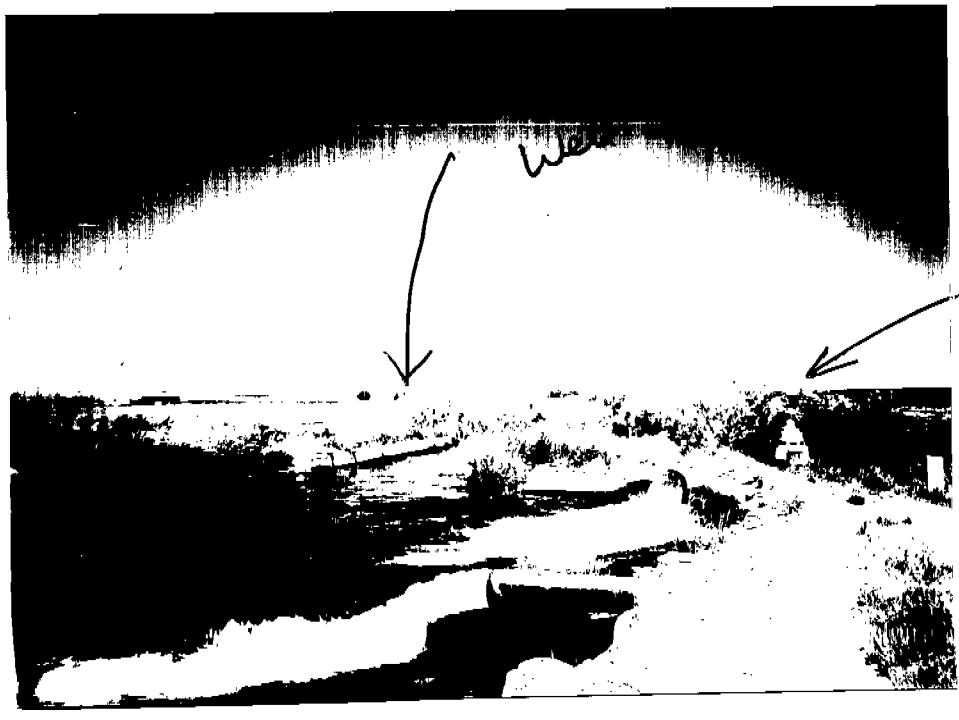
7N 35E 36 NW 1/4



AJ Field Inspection Photos 7/5/00 B. Contor

Holley Flume and Pumps, 7N 35E 36 NW ¼, looking North.

Mud Lake Water Users Surface and GW claims.



ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWVA

Type of Feature (Diversion) Rediversion

Other

Name of Feature North lake well 11C

GPS Filename R0705/6B

Offset (Inst. To Feature) 45° 2 meters

Tag Number A0008610

Tag Location power pole

Narrative

UPL ABB 1922687

KW = 1.61 X 80

Approx 0.7 miles SW of well #1 along pole line

R0705/6C unused well SW of 11C, (11D)

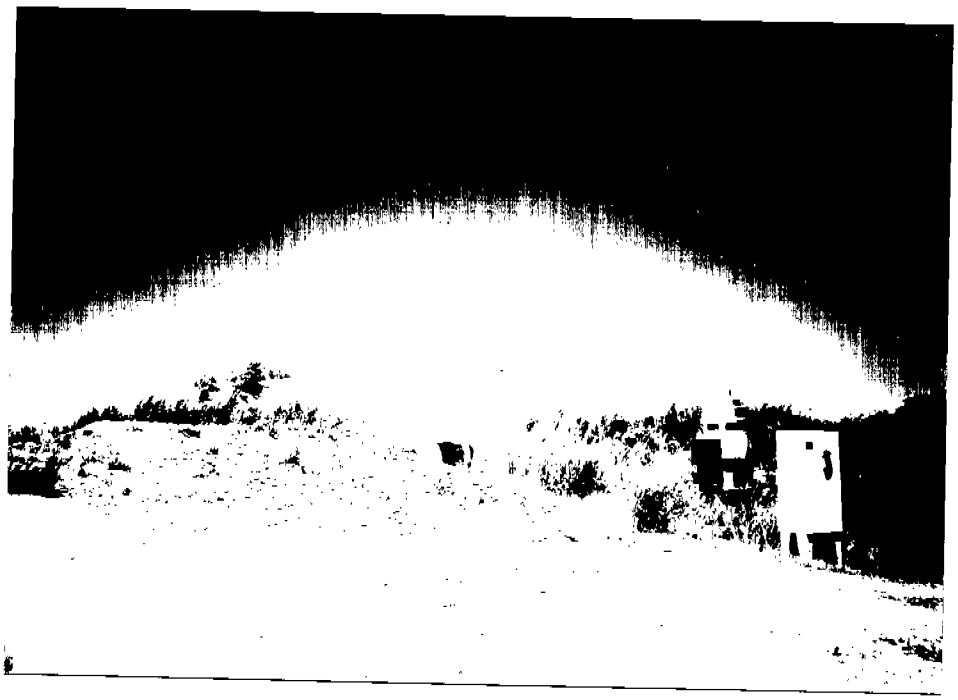
approx 0.8 miles SW of well #1.

offset zero.

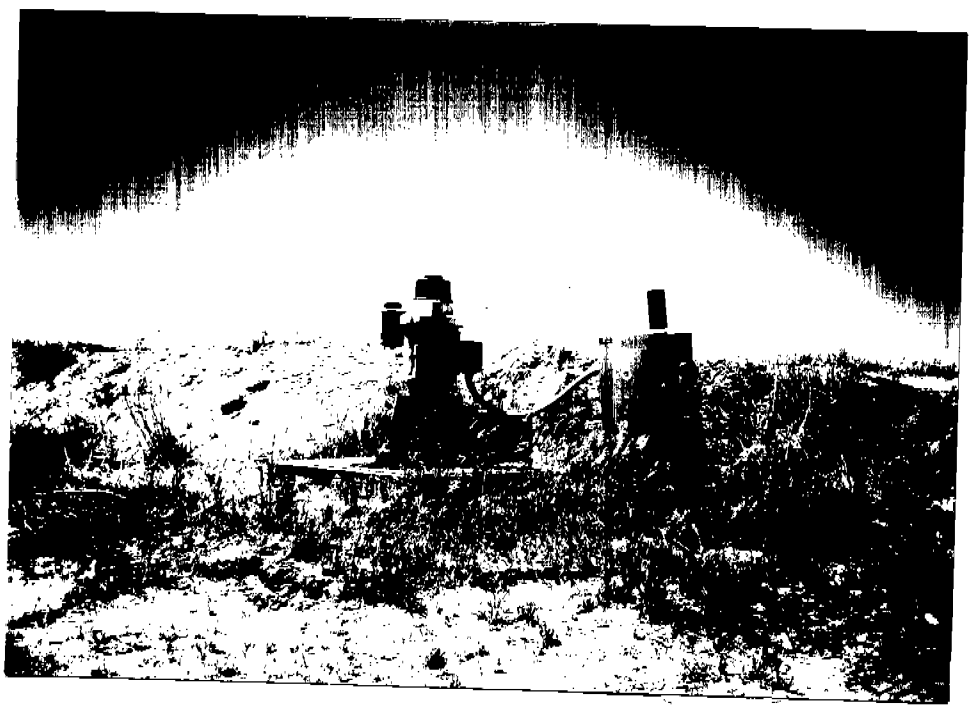
SCANNED

NOV - 8 2002

Holley Creek pump / well #5,
Mud Lake Water Users GW / Surface Claims



Canvas Creek pump (#9) looking West



Well (#5) looking SW

photos 7/5/00, B. Contor. See "Holley Flume / pumps" locator map w/ flume photo.

ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWUA

Type of Feature Diversion Rediversion

Other

Name of Feature Well # 8 (Holley) / Holley lift # 9

GPS Filename none - USGS adequate

Offset (Inst. To Feature)

Tag Number

Tag Location

Narrative

Well 35 meters S. of lift.

Well 125 hp nameplate
lift 250 hp nameplate
estimate 12' lift

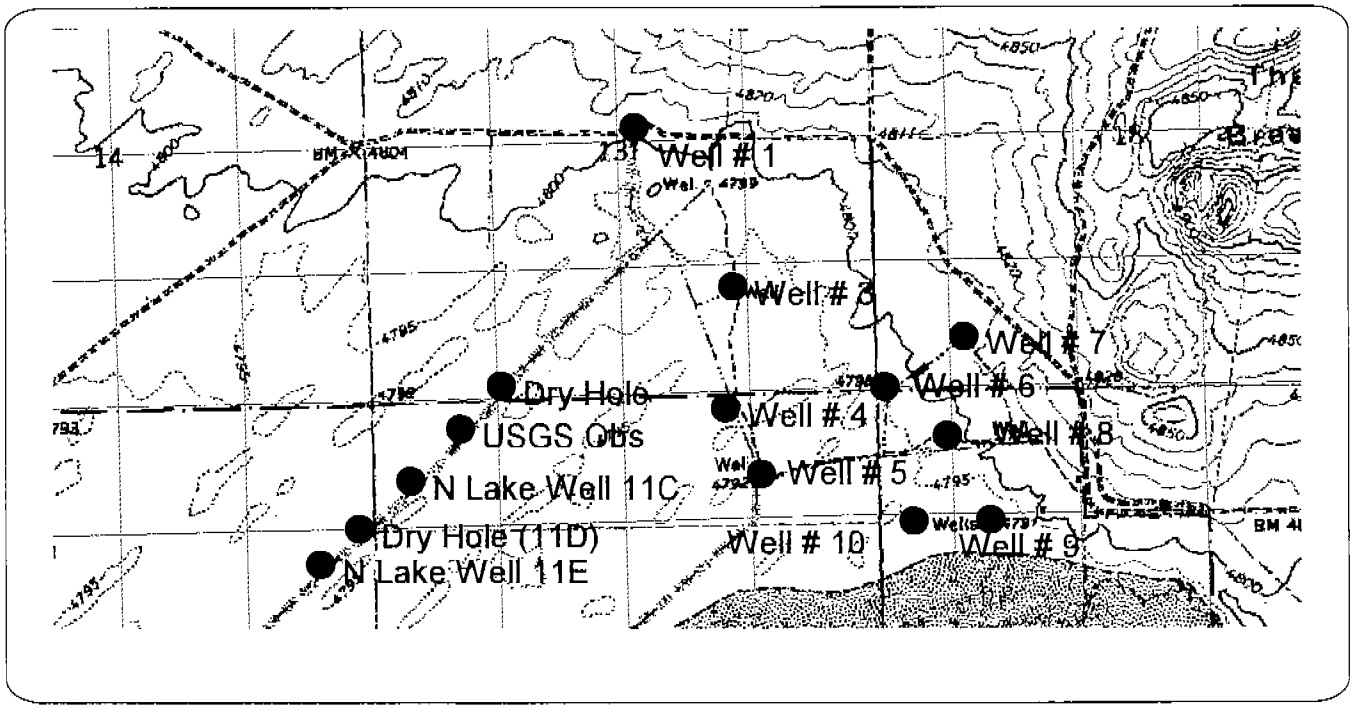
UPL 3.17 x 80
~~S~~ ABB 1747944

Note weir is submerged -
expect error in WM measurements
unless adjusted for.

SCANNED
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000

North Lake Well Field 7N 34E, 7N 35E

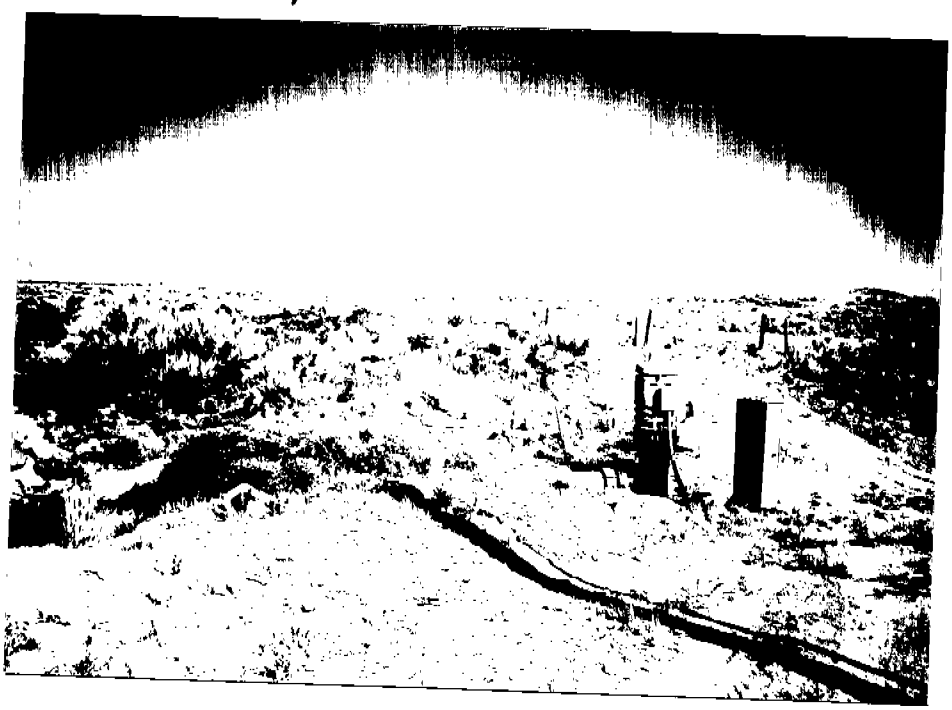


Well #1 A0008609

Motor nameplate 75 hp

Mud Lake Water Users GW claims

photos by B. Coulter



ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWUA

Type of Feature (Diversion) Rediversion

Other _____

Name of Feature Well #1 - North Lake

GPS Filename R0705158

Offset (Inst. To Feature) 271° 2 meters

Tag Number A0008609

Tag Location Pole w/ KWH meter

Narrative 75 hp open discharge

63.81 x 1 ABB 1836737

Roll 1 photo 2

R0705168 ≅ 0.5 mile SW along pole line to dry hole

Offset 116° 1½ meters

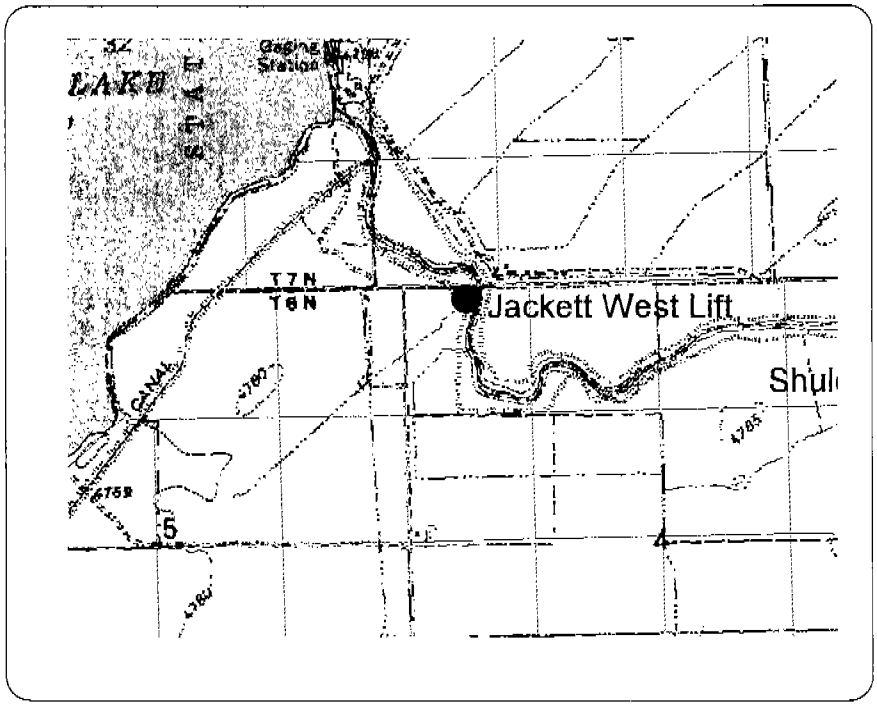
SCANNED

NOV - 8 2002

Locator Map for Photograph

Jackett West Lift

6N 35E 4 NW 1/4

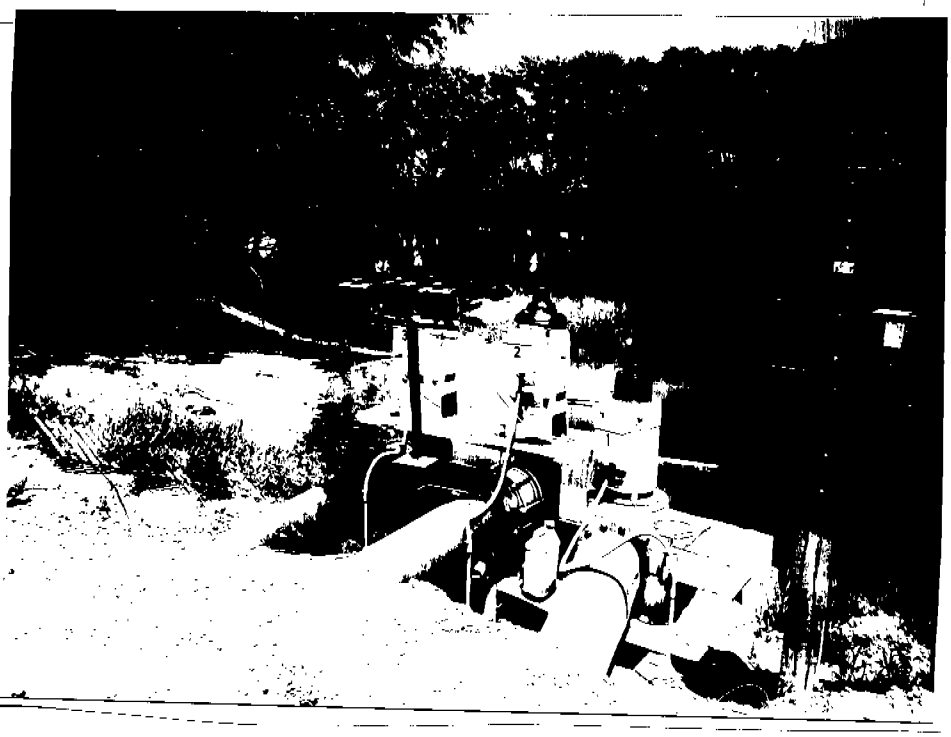


AJ Field Inspection Photos 7/5/00 B. Contor

Jackett West Lift, 6N 35E 4 NW ¼, looking NW.

Mud Lake Water Users Surface and GW claims.

Site tag A0008622



AJ Site visit B Conton 7/5/00

Acc. by Peter Fisher Claimant

Jacket# West lift

Site tag A000 8622 tag on boards by mother panels

GPS R0705198 offset 325° 6 meters

UPL 40.69 X 1 assumed

ABB 2499106

1 30 nameplate

2 & #3 15 nameplate

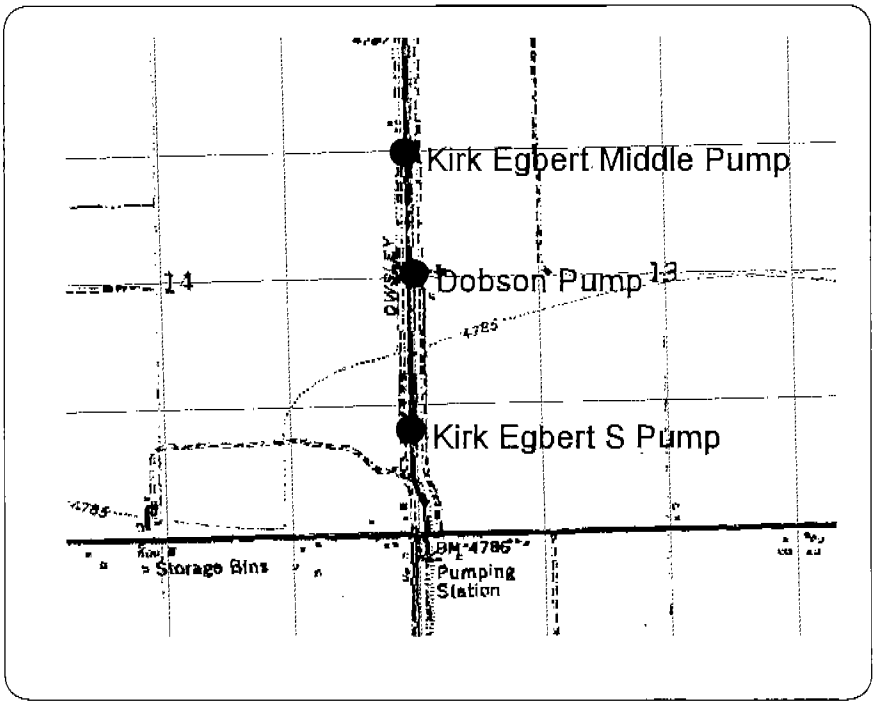
Estimated lift ≈ 6'

SCANNED
NOV - 8 2002

Locator Map for Photograph

Egbert Middle Pump

6N 34E 14 NE 1/4

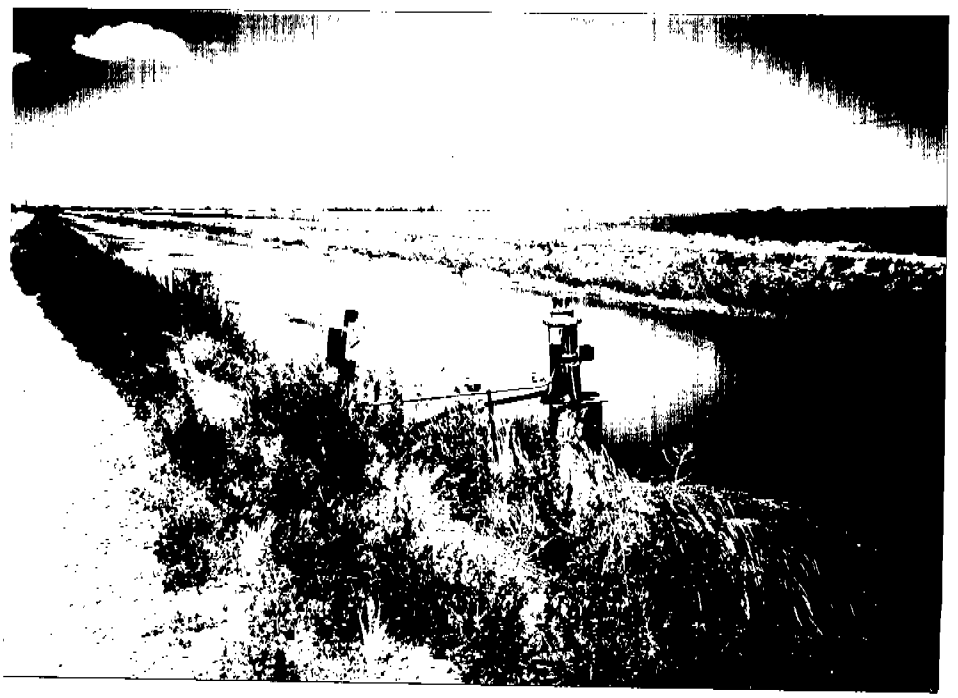


AJ Field Inspection Photos 7/5/00 B. Contor

Egbert Middle Pump, 6N 34E 14 NE ¼, looking N NE.

Mud Lake Water Users Surface and GW claims. POD is approx. 1 ¾ miles north in 6N 34E 1 SESW.

No site tag.



AJ Site visit 7/5/00 B. Coulter

Acc by Peter Fisher

Claimant MCWUA

Diversion: Kirk Egbert pump ≈ ½ mile N of Owsley main lift

GPS R0705 20C offset 55° 5 meters

no site tag (ran out of tags)

Motor 60 hp nameplate lift ≈ 5' + est 60 psi

56.39 KW ABB 1594945

broken flowmeter present, panel has hr. meter

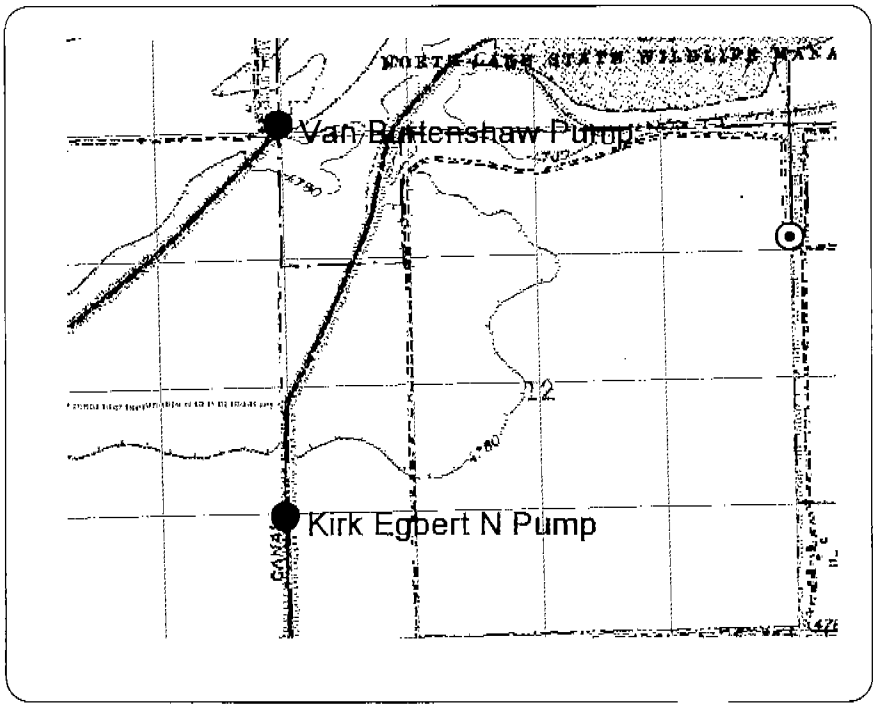
Egbert Middle Pump

SCANNED
NOV - 8 2002

Locator Map for Photograph

Egbert North Pump

6N 34E 11 SE 1/4



AJ Field Inspection Photos 7/5/00 B. Contor

Egbert North Pump, 6N 34E 11 SE ¼, looking N NE.

Mud Lake Water Users Surface and GW claims. POD is approx. 1 ¼ miles north in 6N 34E 1 SESW.

No site tag.

AJ Site Visit 7/5/00 B. Conton

Acc by Peter Fisher

Claimant MLWUA

Diversion: Kirk Egbert pump ≈ 3/4 mile N of Owsley main lift

GPS R070520D offset 48° 6 meters

KW 2.02 x 40

motor nameplate 100 hp

lift ≈ 4' + estimate 60 psi discharge

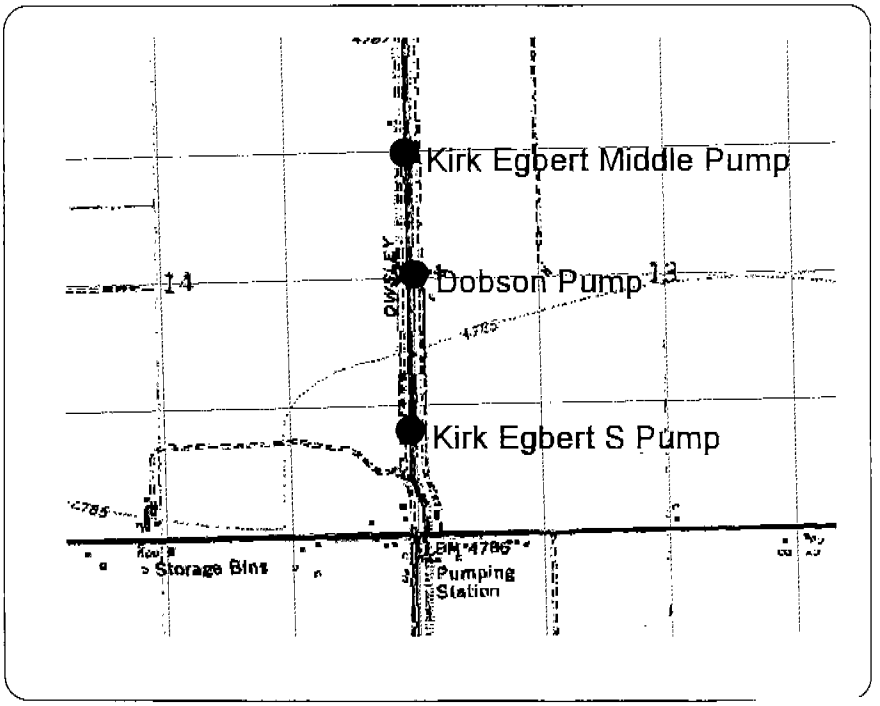
Egbert N. pump

SCANNED
NOV - 8 2002

Locator Map for Photograph

Egbert South Pump

6N 34E 14 SE 1/4



AJ Field Inspection Photos 7/5/00 B. Contor

Egbert South Pump, 6N 34E 14, SE ¼, looking SE.

Mud Lake Water Users Surface and GW claims. POD is approx. 2 ¼ miles north in 6N 34E 1 SESW.

Site tag A0008624

AJ Site visit 7/5/00 B. Conlon

Acc by Peter Fisher

Claimant MCWVA

Diversion Kirk Egbert Pump ¼ mile N of Owsley Main Ditch

GPS R0705208 offset 56° 4 meters

Site tag A0008624 on pole w/ transformers

Motor 50 hp nameplate

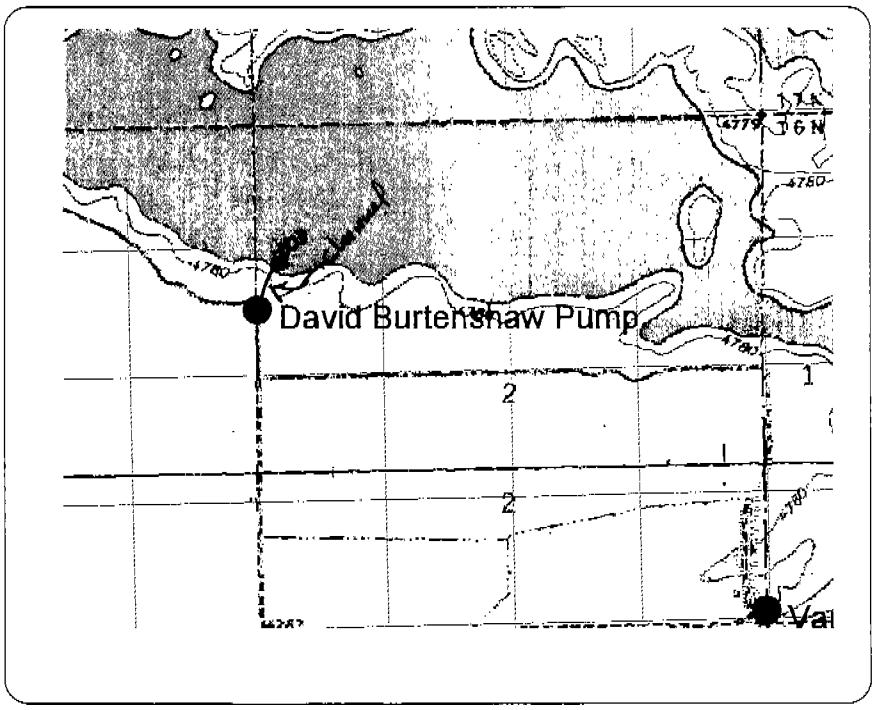
Lift ≈ 15' est + 60 psi owner gage

ABB 1224 120 66.14 KW

Egbert South Pump

SCANNED
NOV - 8 2002

AJ Field Inspection Photograph 7/5/2000
David Burtenshaw Pump 6N 34E 1 NWSW



AJ Field Inspection Photos 7/5/00 B. Contor

David Burtenshaw pump, 6N 34E 1 NWSW, looking E.

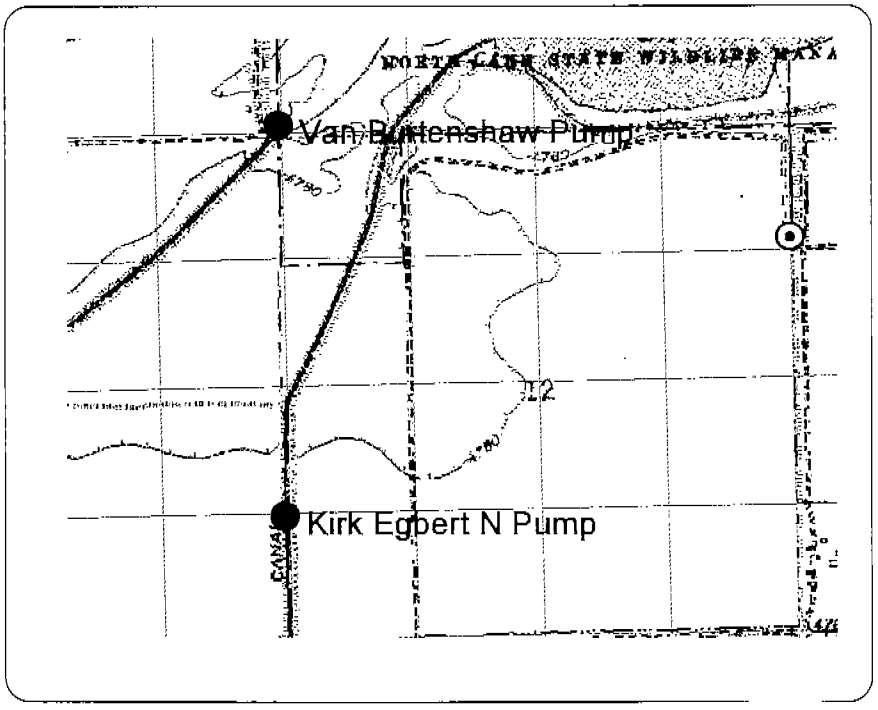
Mud Lake Water Users GW and Surface claims. POD is approx. 700 ft N NE in 6N 34E 1 SWNW.

No site tag.

Locator Map for Photograph

Van Burtenshaw Lift

6N 34E 1 SWSWSW



AJ Field Inspection Photos 7/5/00 B. Contor

Van Burtenshaw Lift, 6N 34E 1 SWSWSW, looking E.

Mud Lake Water Users Surface and GW claims, Independent GW claims, Burtenshaw SW claims. POD is approx. 3/8 mile NE in 6N 34E 1 SESW.

No site tag.

AF site visit 7/5/00 w/ Coulter

Acc by Peter Fisher

Claimant MLWUA, Van/Don Bartenshaw, Independent water users

Site name: Van Bartenshaw pumps

GPS R070520E Offset zero

2 pumps, nominal 100 (N) 150 (S)

Q meter: South 2200 GPM

North 2300 GPM

Lift ≃ 3' + ≃ 60 psi est.

SCANNED

NOV 14 2002

AJ Site visit 7/5/00 B Coulter

Acc by Peter Fisher

Claimant MCWCA

Diversion: David Burtenshaw

GPS R0705 20F offset zero

Motor nameplate 25 hp 1,161 ≈ 2-3 cfs but expect high friction loss

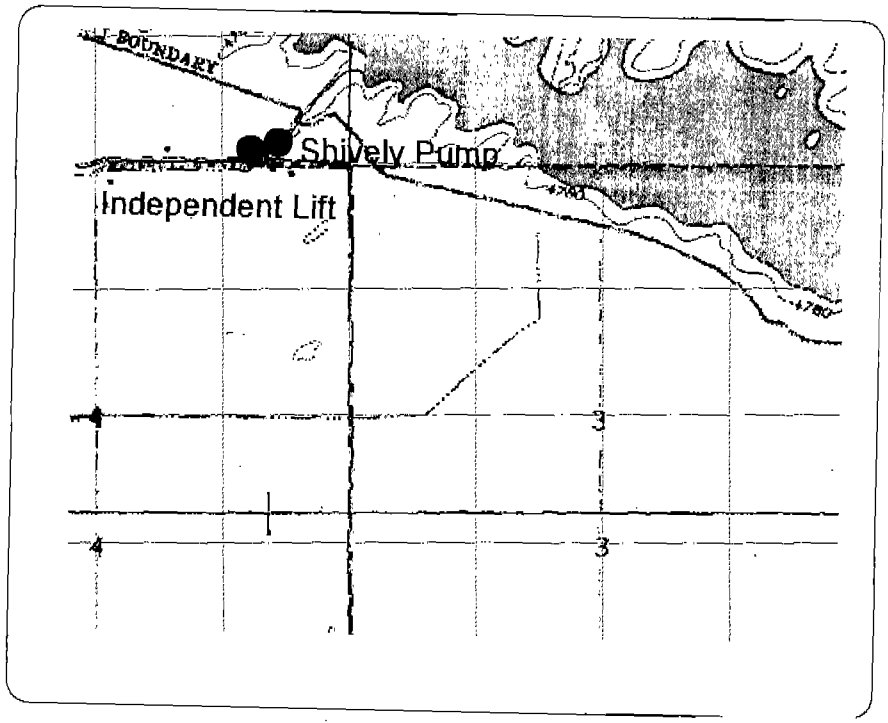
ABB 1292479 0,00 KW on meter

SCANNED

NOV 14 2002

AJ Field Inspection Photograph 7/5/2000

Shively Pump 7N 34E 33 SESE



AJ Field Inspection Photos 7/5/00 B. Contor

Shively pump, 7N 34E 33 SESE, looking SW and S SW.

Mud Lake Water Users GW and Surface claims. POD is approx 1400 ft NE in 7N 34E 34 NWSWSW.

No site tag.

looking S-SW

looking SW

AJ Site visit 7/5/00 L. Coulter

Acc by Peter Fisher

Claimant MCWUA

Diversion Shively Pump

GPS R0 70520 G offset zero

Motor nameplate 75 hp lift ≈ 2' psi est. 60

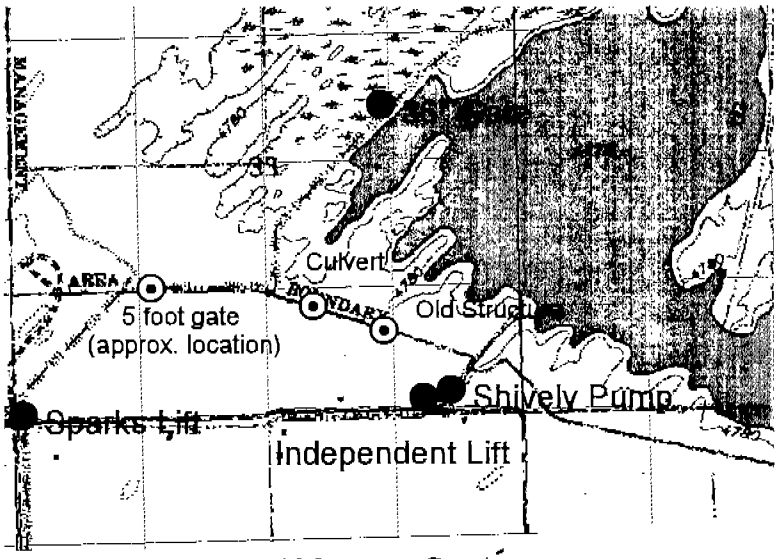
UPL 100.26 KW 1135328 ABB

SCANNED

NOV 14 2002

AJ Field Inspection Photograph 7/5/2000

Sparks Lift 7N 34E 33 SWSWSW



Red features located by GPS, yellow features location approximate

AJ Field Inspection Photos 7/5/00 B. Contor

Sparks Lift, 7N 34E 33 SWSWSW, looking W SW.

Mud Lake Water Users GW and Surface claims. POD is approx. 1 mile east in 7N 34E NWSWSW.

This lift is generally supplied by the North Lake Well Field; on 7/5/2000 all three pumps were running here and water from the North Lake Well Field was supplying all this lift's needs and still contributing water eastward to the lake through the culvert in 7N 34E 33 SW ¼ (see photo), as well as southward to the lake at the check structure in 7N 34E 34 NWNE.

ADJUDICATION SITE VISIT - B. CONTOR

Date 7/5/00

Accompanied by Peter Fisher

Claim Number MLWU Inc.

Type of Feature (Diversion) Rediversion

Other _____

Name of Feature Sparks

GPS Filename RD70521A

Offset (Inst. To Feature) _____

Tag Number none

Tag Location _____

Narrative _____

Per Shaun Groves this can pull well water or lake water. Can't pull lake water below 3 ft.

lift estimated 8'

Motor hp 25 #3

50 #2

250 #1

all those running

ABB 1123867

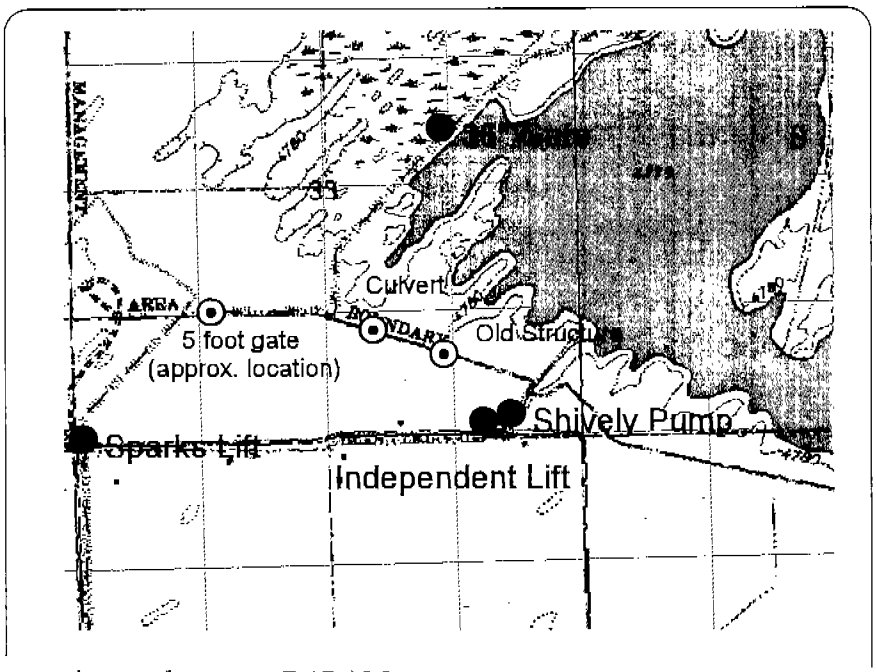
4.75 x 40 KW

SCANNED

NOV 14 2002

AJ Field Inspection Photograph 7/5/2000

Old Structure 7N 34E 33 SE



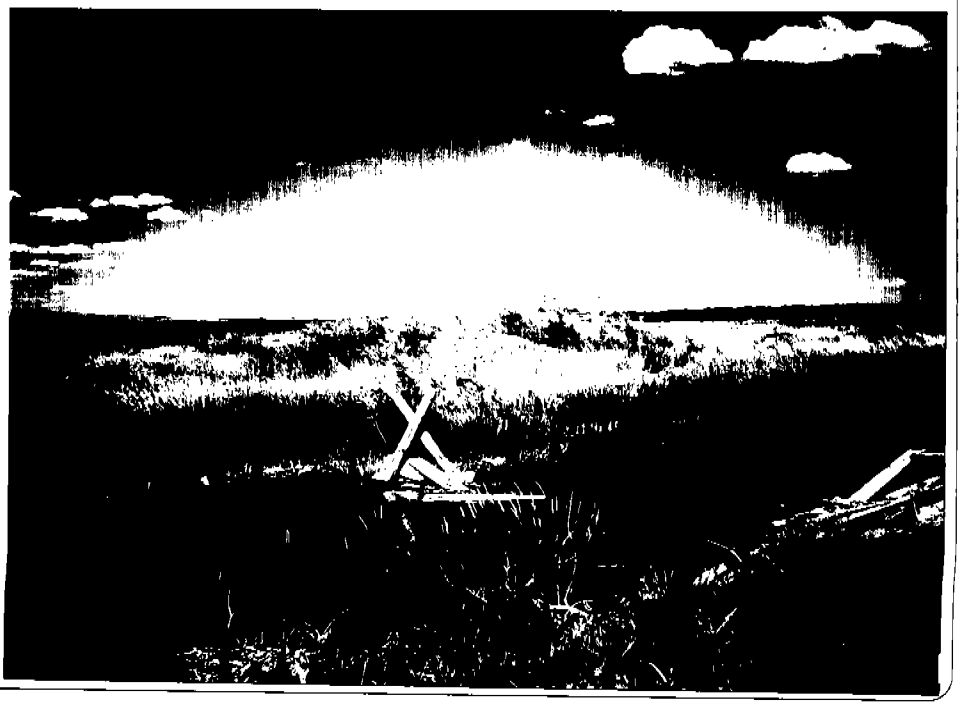
Red features located by GPS, Yellow features location approximate

AJ Field Inspection Photos 7/5/00 B. Contor

Old structure in channel between North Lake Well Channel and Mud Lake, 7N 34E 33 SE ¼, looking NE.

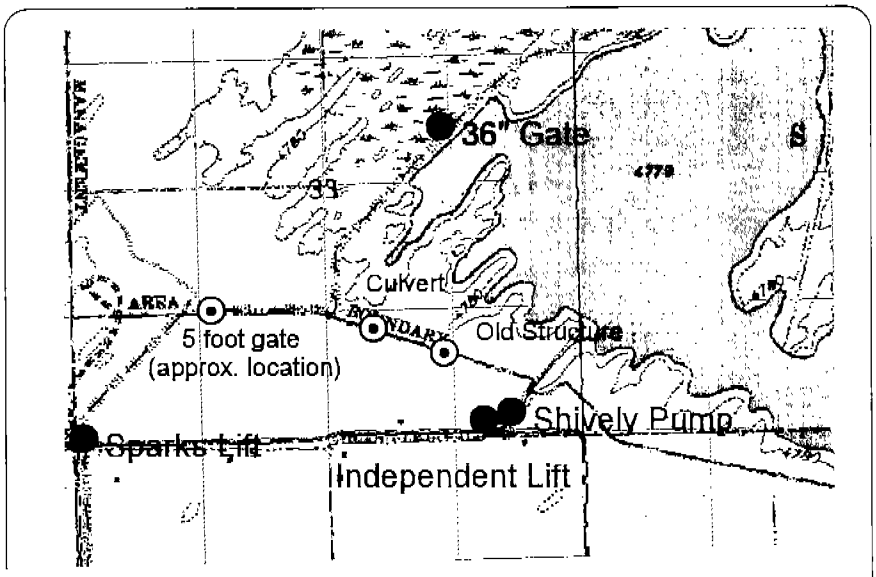
Mud Lake Water Users GW and Surface Claims.

See narrative to "Culvert" in same quarter section. This may have been an older structure to accomplish the same purposes as the current culvert.



AJ Field Inspection Photograph 7/5/2000

Culvert Between Sparks & Lake 7N 34E 33 SE



Red features by GPS, Yellow features approximate location

AJ Field Inspection Photos 7/5/00 B. Contor

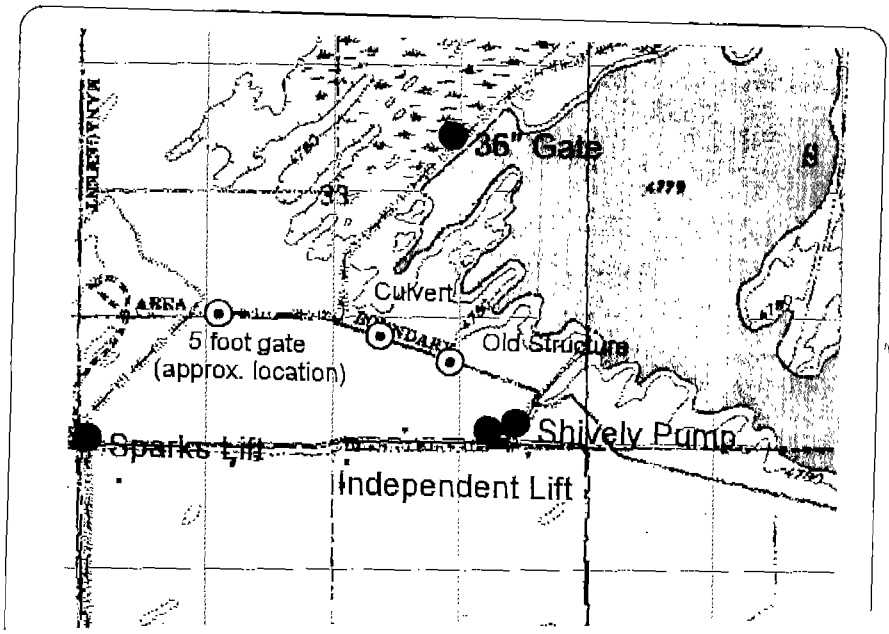
Culvert between North Lake Well Channel and Mud Lake Channel, 7N 34E 33 SE ¼, looking E NE.

Mud Lake Water Users GW and Surface Claims.

This culvert could be closed (see flanges for slide gate), though I did not see a gate present and expect this is not a common practice. If this gate were closed and the structure in 7N 34E NWNE were checked up, then the Sparks Lift in 7N 34E 33 SWSWSW would only lift North Lake Well Field water, and the North Lake Well Field would not contribute to the lake.

AJ Field Inspection Photograph 7/5/2000

36" Gate to West Slough 7N 34E 33 NE



Red features located by GPS, Yellow features location approximate

AJ Field Inspection Photos 7/5/00 B. Contor

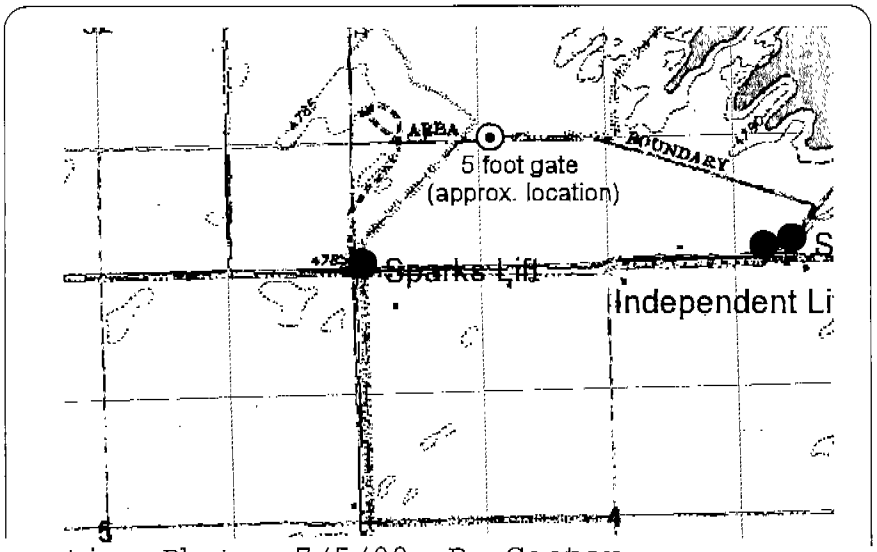
36" Gate between North Lake Well Channel and West Marsh (Slough), 7N 34E 33 NE ¼, looking SW.

Mud Lake Water Users GW and Surface Claims.

See also "5 foot gate." The purpose for this gate is to allow water into the West Slough for storage and/or flood control, and to allow water from the West Slough to flow back towards the lake for diversion and beneficial use, as the lake drops.

AJ Field Inspection Photograph 7/5/2000

5 Foot Gate to West Marsh 7N 34E 33 SW 1/4



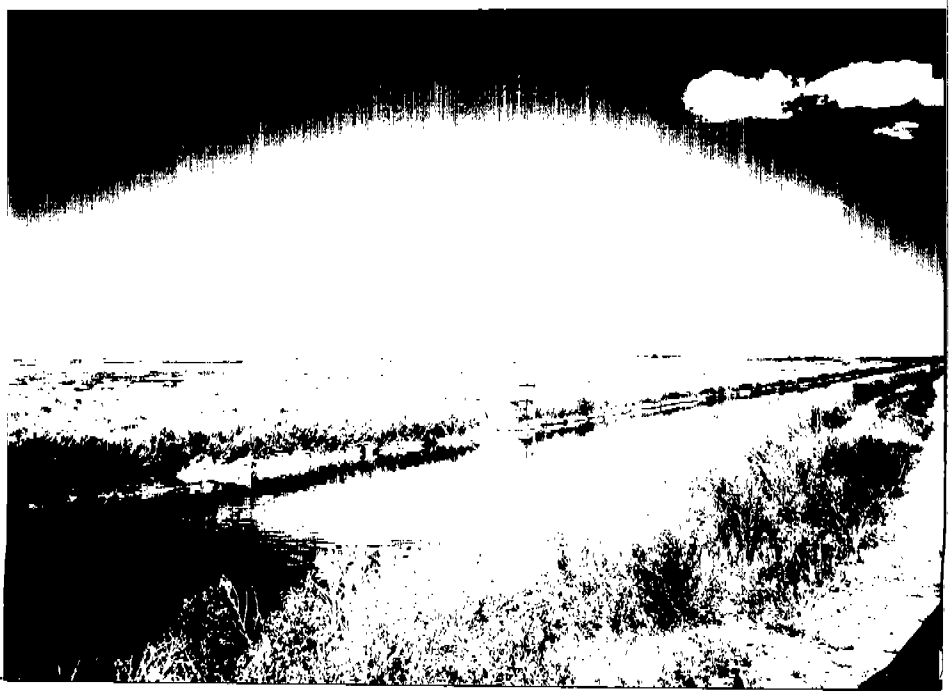
AJ Field Inspection Photos 7/5/00 B. Contor

5 foot gate to West Marsh (Slough), 7N 34E 33 SW ¼, looking NE from south side of North Lake Well Channel.

Mud Lake Water Users GW and Surface claims.

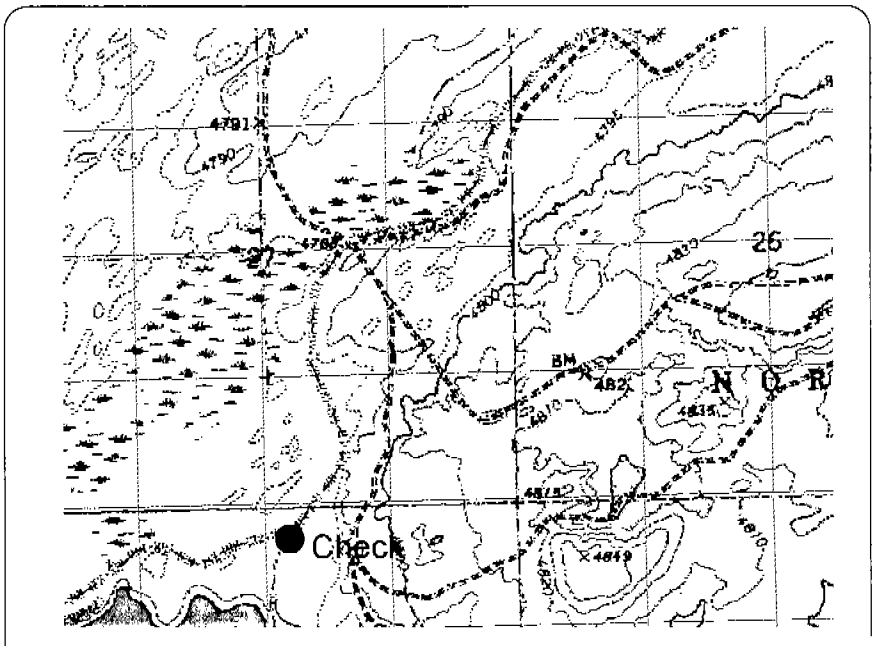
See also "36 gate." The purpose for this gate is to allow water into the West Slough for storage and/or flood control, and to allow water from the West Slough to flow back towards the lake for diversion and beneficial use, as the lake drops.

No GPS reading of location.



AJ Field Inspection Photograph 7/5/2000

North Lake Channel Check Structure 7N 34E 34 NWNE

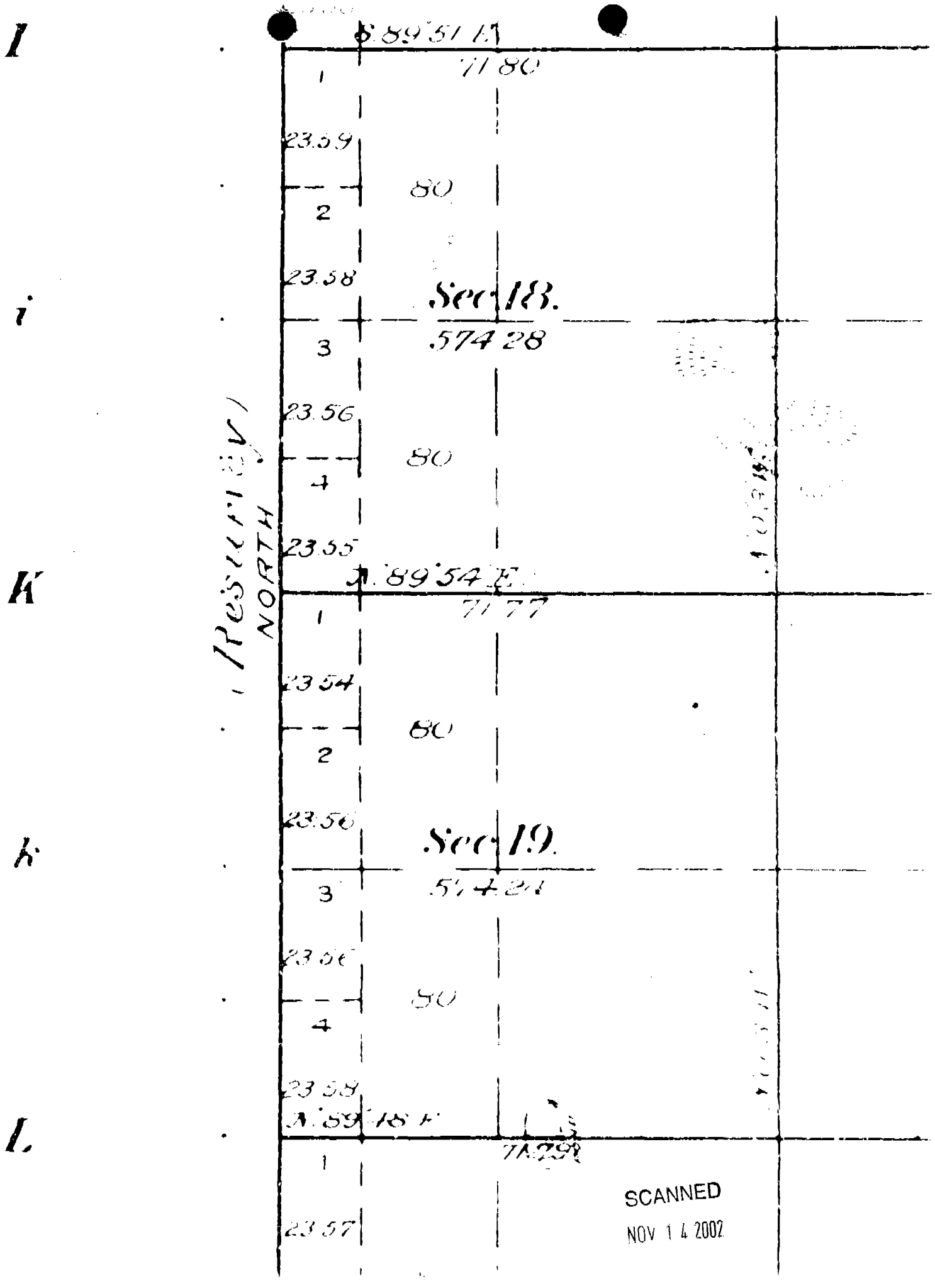


AJ Field Inspection Photos 7/5/00 B. Contor

North Lake Channel Check Structure.

Mud Lake Water Users GW and Surface Claims.

This check structure, if opened, allows North Lake Well water to continue southward to enter the lake. If closed, water moves SW in the channel to the channel from the lake to the Sparks Lift. See narrative at "Culvert," 7N 34E 33 SE.



SCANNED
NOV 14 2002

MOTOR RATINGS IN HORSE POWER

OWSLEY

MAIN

1 - 200
2 - 200
3 - 200
4 - 150

SPARKS

1 - 250
2 - 50
3 - 25

SUB PUMPS

1 - 20
2 - 15
3 - 5
4 - 3
5 - 7.5
6 - 15
7 - 15
8 - 15
9 - 25
10 - 7.5
11 - 25
12 - 20
13 - 5

JACKET

LIFTS # 1

1 - 30
2 - 25
3 - 30
4 - 25
5 - 50
6 - 15

WEST LIFTS # 2

1 - 30
2 - 15
3 - 15

HOLLEY

WELLS

1 - 60
2 - 100
3 - 125
4 - 25
5 - 50
6 - 50
7 - 100
8 - 125

LIFTS

9 - 250
1 - 75
2 - 50
3 - 30

WELLS

JACKET + BUCK

3 - 75
4 - 75
1 - 200
2 - 150
3 - 50

WELLS

NORTH LAKE

1 - 75
3 - 75
4 - 75
5 - 75
6 - 100
7 - 125
8 - 75
9 - 100
10 - 100
11C - 200
11E - 200

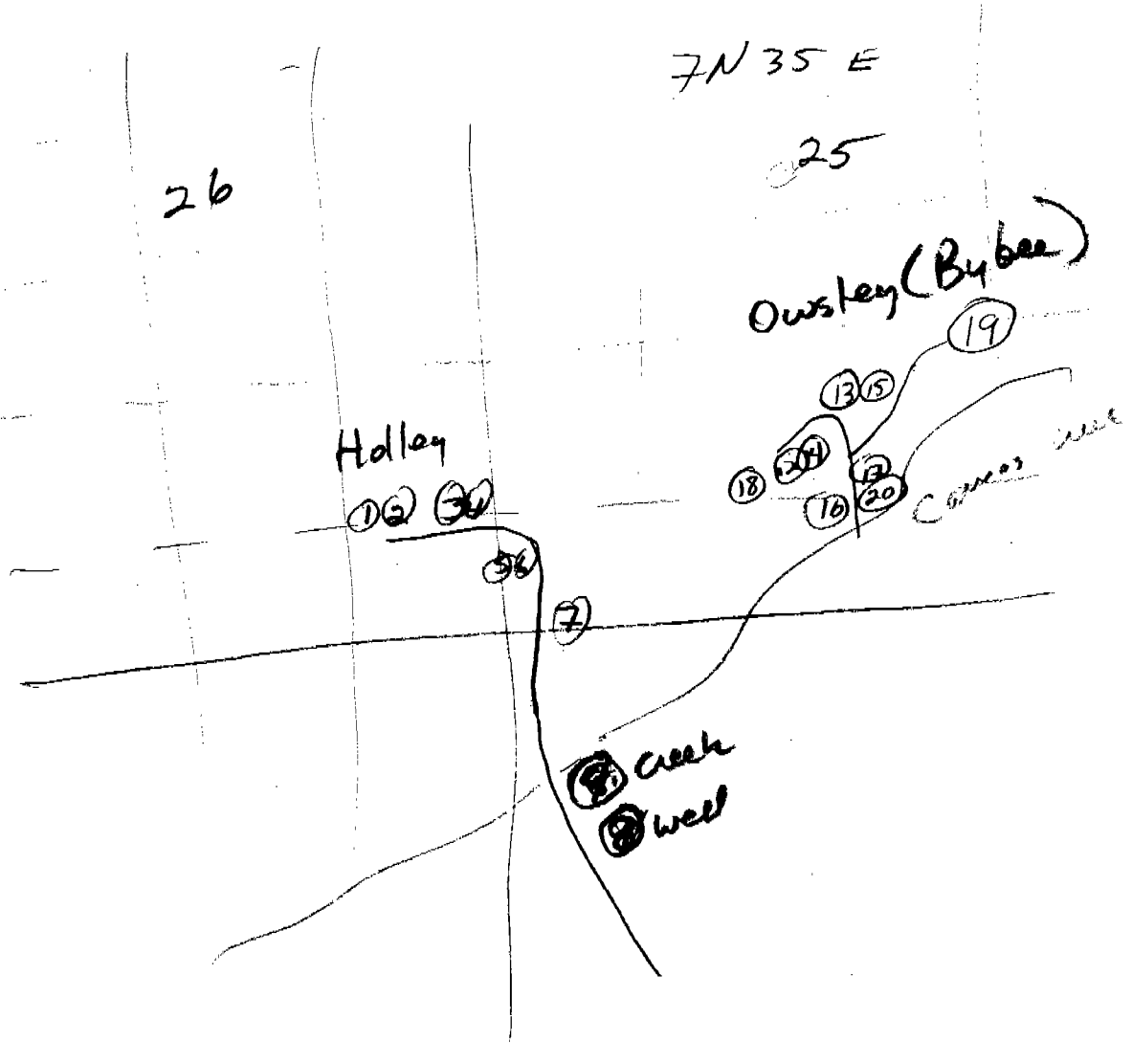
BYBEE

12 - 100
13 - 100
14 -200
15 - 100
16 - 100
17 - 100
18 - 200
19 - 200
20 - 75

SCANNED
NOV 1 4 2002

9/25/99

Holley Wells & Owsley Wells
Sketched from Mud Lake WUA Map
7/5/00 B. Croton

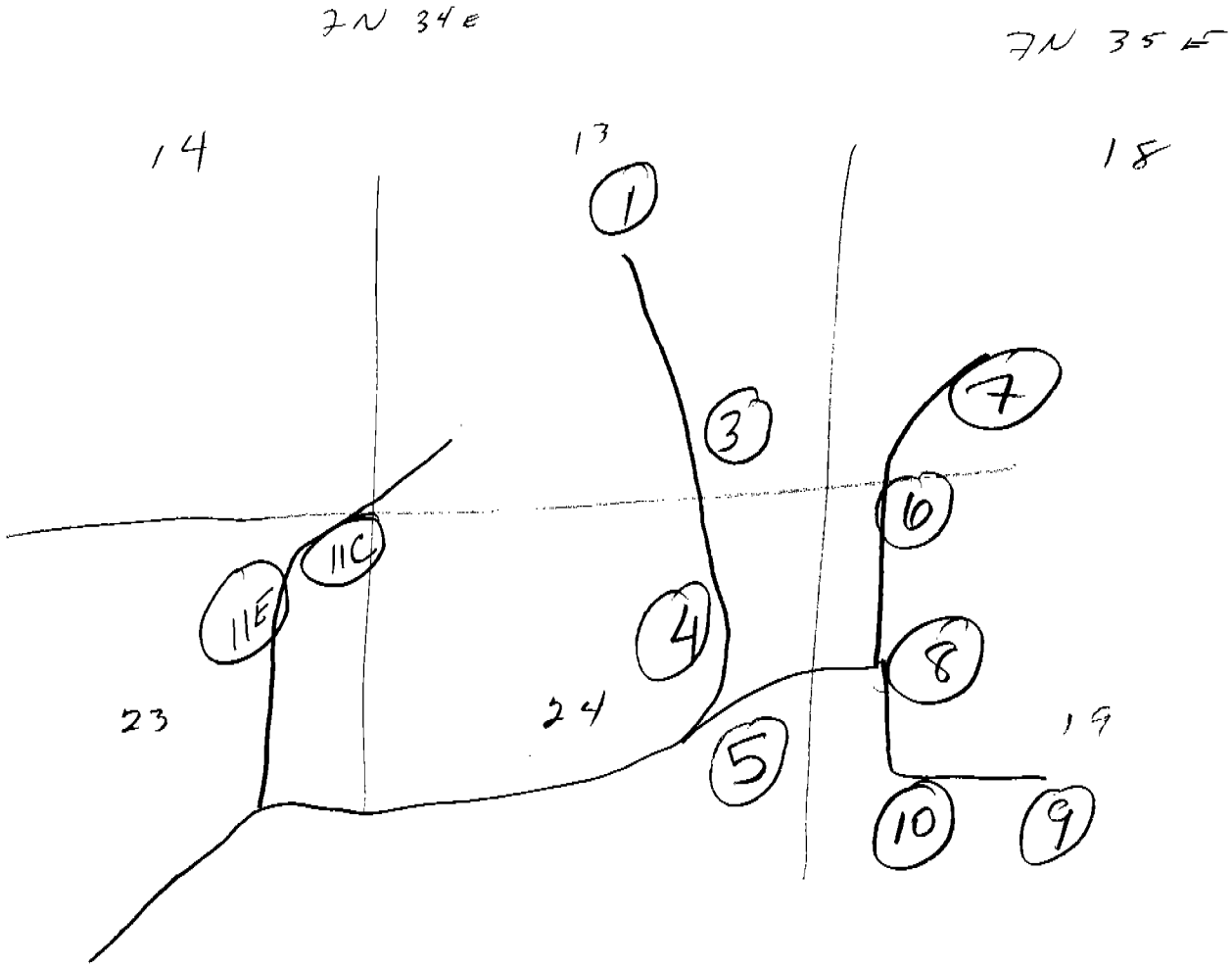


SCANNED
NOV 14 2002

North Lake Wells

Sketched from Mud Lake WMA map

7/5/00 B. Coulton



SCANNED
NOV 14 2002

Contor, Bryce
From: Contor, Bryce
Sent: Friday, July 07, 2000 12:05 PM
To: McHugh, Candice; Jones, Harold (Skip); Carlsen, Ernie
Cc: Dunn, Dennis
Subject: Transfer 5335

Hi all.

Garth Soderquist of Mud Lake Water Users came in today to discuss drilling a replacement well for a well that was historically used but has caved in. I took GPS readings of the wells and proposed locations and plotted them on ArcView, so I have access to better information than has been available previously.

I see no problem with the proposed well, from either a water right standpoint or an injury standpoint. There are two possible approaches. I would like to treat it as a replacement well, because historically there was a well in this location, and to avoid the cost of a transfer. The other approach would be a formal transfer.

However, post-1987 Transfer 5335 has some issues that may interfere with calling this a replacement well, and the new fee structure poses a possible barrier to filing for a transfer to change the POD.

Here are some background information and concerns:

1. This well is in the "North Lake Well Field," located in 7N 34E 13, 23, and 24, and 7N 35E 18 and 19. In this well field are 11 active wells, and two historically used wells that have caved in. The proposed replacement well would bring the total to 12 active wells in the North Lake Well Field.

2. Transfer 5335 recognizes 9 quarter-quarters (or govt. lots) in this area, and notes that there are two wells in 7N 35E 19 lot 1. As I read it, this authorizes 10 points of diversion, not the 11 that are currently in use (and were in use at the time of the transfer).

3. One of the quarter-quarters recognized by the transfer has no wells in it (7N 34E 13 SESE). Mr. Soderquist believes this may not even belong to the Mud Lake Water Users.

4. Three of the wells currently in use are in quarter-quarters not recognized by the transfer.

5. The quarter-quarter with the failed well, and where the proposed replacement well would be drilled, is listed on Transfer 5335. However, there are no active wells in this quarter-quarter.

6. The desired capacity of the new well would be on the order of 18 – 20 cfs. This is reasonable in light of other wells in the vicinity and the water rights of Mud Lake Water Users. The transfer fee on 20 cfs would be $1010.

7. If this well cannot be drilled as a replacement, Mud Lake Water Users would like to file a transfer to add the new well as a point of diversion. As part of the transfer, use of a well in 7N 35E 23 SWSWSW would be eliminated. This is about six miles east of the proposed new well.

8. Transfer 5335 appears to link all their water rights with a combined diversion capacity of 634 cfs. The transfer fee on 634 cfs would be $6,878. That would be ridiculous.

9. There are no other apparent obstacles to the transfer, and no likely protestors.

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Questions:

1. Can we ignore the obvious problems w. T 5335 and suggest that the proposed new well is a replacement of the failed well? This would be the cleanest and best for the claimant.

2. If we have to go to a transfer, can we simply add a POD on one of the component rights of T 5335, so that the fee is only based on the cfs of the one right, rather than base it on the combined cfs of T 5335?

Cc: Mud Lake Water Users

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Contor, Bryce
From: Contor, Bryce
Sent: Friday, July 07, 2000 2:02 PM
To: Contor, Bryce; McHugh, Candice; Jones, Harold (Skip); Carlsen, Ernie
Cc: Dunn, Dennis
Subject: RE: Transfer 5335

I just finished talking with Skip. His take is that since the transfer recognizes a POD in the quarter-quarter where the failed well is (and the replacement is proposed) we just go with a drilling permit for a replacement well. Maybe someday we'll have to tackle the other issues with another transfer, perhaps in the future the fee structure will be modified again and it won't be such a burden.

The driller is supposed to look at the site Monday, and Garth meets with the board of directors Monday night (July 10). He'd like to have a decision by then. Unless a good reason surfaces to change Skip's recommendation, I'll call Garth Monday afternoon and relay the message that we'll consider it a replacement well.

Thanks, Bryce

-----Original Message-----
From: **Contor, Bryce**
Sent: Friday, July 07, 2000 12:05 PM
To: McHugh, Candice; Jones, Harold (Skip); Carlsen, Ernie
Cc: Dunn, Dennis
Subject: Transfer 5335

Hi all.

Garth Soderquist of Mud Lake Water Users came in today to discuss drilling a replacement well for a well that was historically used but has caved in. I took GPS readings of the wells and proposed locations and plotted them on ArcView, so I have access to better information than has been available previously.

I see no problem with the proposed well, from either a water right standpoint or an injury standpoint. There are two possible approaches. I would like to treat it as a replacement well, because historically there was a well in this location, and to avoid the cost of a transfer. The other approach would be a formal transfer.

However, post-1987 Transfer 5335 has some issues that may interfere with calling this a replacement well, and the new fee structure poses a possible barrier to filing for a transfer to change the POD.

Here are some background information and concerns:

1. This well is in the "North Lake Well Field," located in 7N 34E 13, 23, and 24, and 7N 35E 18 and 19. In this well field are 11 active wells, and two historically used wells that have caved in. The proposed replacement well would bring the total to 12 active wells in the North Lake Well Field.

2. Transfer 5335 recognizes 9 quarter-quarters (or govt. lots) in this area, and notes that there are two wells in 7N 35E 19 lot 1. As I read it, this authorizes 10 points of diversion, not the 11 that are currently in use (and were in use at the time of the transfer).

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Contor, Bryce

From: Contor, Bryce
Sent: Thursday, June 22, 2000 10:37 AM
To: McHugh, Candice; Hamlin Nygard, Susan; Fritschle, Carter; Carlsen, Ernie; Music, Vicky
Subject: RE: Basin 31 General Provisions/Remarks

For my two bits worth, I think we're ready to meet w. Mr. Tuthill.

A couple of responses:

The reason for including "pumping plan" in the remark was to clarify that early season pumping was to be regulated as to timing and quantity, by the watermaster. Maybe "a" Pumping Plan rather than "the" Pumping Plan. The historical background is that early season pumping only occurs after the watermaster and water users consult and agree, and then a Pumping Plan is adopted for that season and that season only. The plan is very specific, as to dates, quantities, and the target gauge height. The negotiations, it appears from the documentation, are quite detailed. One year, for instance, it appears that there was a good deal of discussion as to whether a 7.0 foot or 7.5 foot gauge height was an appropriate target. The next year, the selected target was 4.5 feet. Anyway, I think we need to avoid the idea that we are now relaxing the standards and letting people pump at will anytime the Director declares early pumping is OK.

I think the priority and period of use for early pumping storage is not an issue any more, my understanding was that with the adoption of the above remark on the in-season storage rights, a second right would not be required for early pumping. The volumes and periods of use from storage for the in-season rights are appropriate for early pumping, it is only the early diversion to storage that would be different, and this is addressed in the remark.

Anyway, I like what you've put together here.

-----Original Message-----
From: McHugh, Candice
Sent: Thursday, June 22, 2000 10:27 AM
To: Hamlin Nygard, Susan; Fritschle, Carter; Carlsen, Ernie; Contor, Bryce; Music, Vicky
Subject: Basin 31 General Provisions/Remarks

Everyone --

I thought I would send you the latest version of the Basin 31 General Provisions/Remarks. The editing was done very nicely by Bryce. I had a few questions that I put in red. I think the next step is to have a meeting to discuss this latest version with Dave T. What do you think are we ready for that or do we need further discussion first?

<< File: BASIN 31 General Provisions2.doc >>

Candice

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DRAFT #2

BASIN 31 General Provisions

1. Allotment System:

a. On or about May 1st of each year, the Director of the Idaho Department of Water Resources ("Director") shall compute the amount of water available in Mud Lake for diversion and use. This computation shall be made from the United States Geological Survey gauge located at the mouth of Camas Creek. To this calculation, the Director shall add the estimated inflow volume from Camas Creek between the period of May 1st to September 1st. The amount of water in the lake, plus said estimated inflow, shall be the amount of waters of Mud Lake available for use that irrigation season. On or about May 1st of each year, the Director shall compute in acre feet the allotment of water necessary to fill each right from May 1st to September 1st in the order of their respective priorities.

b. Beginning on May 1st of each year and at least every 15 days from May 1st until the end of the irrigation season, the Director shall compute the amount of water used by each right, including the amount of water used prior to May 1st and the amount of water remaining available to fill such rights. The Director shall take into consideration actual accretion to the lake from natural inflow. Each right shall be charged its proportionate part of the evaporation and other losses in the lake. At such time that all rights cannot be completely filled through September 1st, the junior right(s) shall be cut off.

2. 35% per month limitation.

If the total demand for water from Mud Lake is made that would be greater than the volume of the lake as determined in 1(a) above, then the Director may determine that the water user(s) may not withdraw more than 35% of his/her total right in any calendar month. All water, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's seasonal allotment.

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Basin 31 Remark

Early Season Pumping: The director may authorize pumping to storage under this right as early as March 1. Such early pumping prior to May 1 shall be subject to the Pumping Plan authorized by the director and shall bear a priority date of June 5, 1961. [What is the "pumping plan"? Should we define it or is it something of common knowledge?]

OTHER THOUGHTS:

Season of Use

Storage: 11/1 to 10/31
Irrigation from Storage: 5/1 to 10/31 at volume from decreed right
Irrigation at the decreed diversion rate: 5/1 to 10/31

Priority Date

Early season storage has a 1961 priority date w/ a season of 3/1 to 4/30 [I was unclear whether this was still necessary?]

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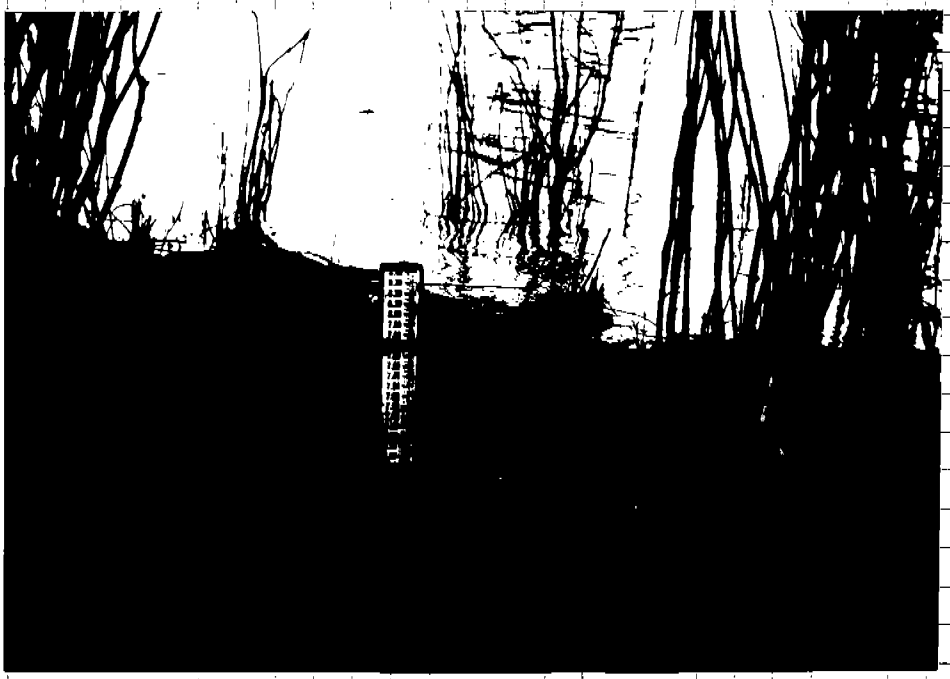
Gauging Station on Camas Creek /
Mud Lake 7N 35E 32 SE 1/4



photos taken by B. Coulton 5/1/2000

Contor, Bryce
From: Contor, Bryce
Sent: Friday, June 02, 2000 11:39 AM
To: McHugh, Candice; Carlsen, Ernie
Cc: Music, Vicky
Subject: Diversions from Mud Lake

Attached is a spreadsheet of claims diverted below the Bybee Bridge.

1) I reviewed all the rights listed on the 1931 and 1934 allotment sheets, and the individual Holley surface rights listed in Holley v Kulp. Only five of these are not included on the attached list, because they are not claimed in the AJ. They are:

31-00170, 31-00171, 31-00222, 31-00223, and 31-00341.

2) All the SW irrigation rights in 6N 34E, 6N 35E, 7N 34E, and 7N 35E are included on the list except the USA claims.

3) In summary:

Source	Diversion	Count
Creek	Creek	16
Creek	Lake	2
Creek	Both	1
Lake	Creek	0
Lake	Lake	45
Lake	Well	2

The two diversions with source = lake and diversion = well are claimed in error; one is a decreed well right and one is a licensed well right.

4) My opinion is to recommend the two GW rights as GW. All the lake/lake and creek/creek claims ~~others~~, recommend as claimed.

This leaves the two with source=creek and diversion=lake. Looking at the WR database record on those two, it appears the original decree included 4 points of diversion. One appears to be the Holley creek pump just below the Bybee Bridge, two appear to be alternate descriptions of the Bybee Bridge itself, and the last is the point of

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rediversion on the lake. I'd like to recommend the Bybee Bridge and the creek pump as POD's, the mouth of Camas Creek as a PO Injection, and the lake diversion as a PO Rediversion.

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Mud Lake/Camas Creek Summary
6N 34E, 6N 35E, 7N 34E, 7N 35E

Claim # order

Claim	Claimant	Source	Diversion	Notes
31-00005	Level	Lake	Lake	
31-00006	MLW	Lake	Lake	
31-00019	Shuldberg	Creek	Creek	
31-00026	Burtenshaw	Lake	Lake	
31-00027	Burtenshaw	Lake	Lake	
31-00034	MLW	Lake	Lake	
31-00035	MLW	Lake	Lake	
31-00036	MLW	Lake	Lake	
31-00037	MLW	Lake	Lake	
31-00038	MLW	Lake	Lake	
31-00052	MLW	Lake	Lake	
31-00065	MLW	Lake	Lake	
31-00104	MLW	Lake	Lake	
31-00105	MLW	Lake	Lake	
31-00134	Jackett	Creek	Creek	
31-00135	Jackett	Creek	Creek	
31-00143	Jackett	Creek	Creek	
31-00144	Jackett	Creek	Creek	
31-00147	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00147A	MLW	Lake	Lake	
31-00159	MLW	Lake	Lake	
31-00162	MLW	Lake	Lake	
31-00163	MLW	Lake	Lake	
31-00166	MLW	Lake	Lake	
31-00168	MLW	Lake	Lake	
31-00169	MLW	Lake	Lake	
31-00184	MLW	Lake	Lake	
31-00185	MLW	Lake	Lake	
31-00185Z5	MLW	Lake	Lake	
31-00186	MLW	Lake	Lake	
31-00187	MLW	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00188	MLW	Lake	Lake	

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31-00189	Level	Lake	Lake	
31-00190	Jackett	Creek	Creek	Claimed 7N 35E 7, above Bybee. Probably should be 6N 35E 3.
31-00191	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00192	Jackett	Lake	Creek	
31-00206	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00207	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00208	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00209	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00210	Potter	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00211	Potter	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00212A	Potter	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00213	Potter	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00232	MLW	Lake	Lake	
31-00237	MLW	Lake	Lake	
31-00243	Burtenshaw	Lake	Lake	Claimed section 12 POD - actually in section 1
31-00263	MLW	Lake	Lake	Two POD on lake
31-00328	MLW	Lake	Wells	Claimed in error - GW decree
31-00344	Holley	Creek	Creek	
31-00345	Holley	Creek	Creek	
31-00354	Holley	Creek	Creek	
31-00355	Holley	Creek	Both	
31-00360	Holley	Creek	Lake	
31-00361	Holley	Creek	Creek	
31-00363	MLW	Lake	Lake	
31-02276	MLW	Lake	Lake	Claimed in section 10 - canal fr. lake originates in 1
31-07005	MLW	Lake	Wells	Claimed in error - GW license
31-10957	Holley	Creek	Creek	
31-10958	Holley	Creek	Creek	
31-10959	Holley	Creek	Creek	
31-10960	Holley	Creek	Lake	
31-10961	Holley	Creek	Creek	
31-10962	Holley	Creek	Creek	
31-11199	Larsen	Lake	Lake	Claimed in section 10 - not on lake - needs research. Old rights 164, 165
31-11335	Level	Lake	Lake	
31-11337	Shuldberg	Creek	Creek	

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Mud Lake/Camas Creek Summary
6N 34E, 6N 35E, 7N 34E, 7N 35E

Source/diversion order

Claim	Claimant	Source	Diversion	Notes
31-00355	Holley	Creek	Both	
31-00019	Shuldberg	Creek	Creek	
31-00134	Jackett	Creek	Creek	
31-00135	Jackett	Creek	Creek	
31-00143	Jackett	Creek	Creek	
31-00144	Jackett	Creek	Creek	
31-00190	Jackett	Creek	Creek	Claimed 7N 35E 7, above Bybee. Probably should be 6N 35E 3.
31-00344	Holley	Creek	Creek	
31-00345	Holley	Creek	Creek	
31-00354	Holley	Creek	Creek	
31-00361	Holley	Creek	Creek	
31-10957	Holley	Creek	Creek	
31-10958	Holley	Creek	Creek	
31-10959	Holley	Creek	Creek	
31-10961	Holley	Creek	Creek	
31-10962	Holley	Creek	Creek	
31-11337	Shuldberg	Creek	Creek	
31-00360	Holley	Creek	Lake	
31-10960	Holley	Creek	Lake	
31-00192	Jackett	Lake	Creek	
31-00328	MLW	Lake	~~Creek~~ with	Claimed in error - GW decree
31-00005	Level	Lake	Lake	
31-00005	MLW	Lake	Lake	
31-00026	Burtenshaw	Lake	Lake	
31-00027	Burtenshaw	Lake	Lake	
31-00034	MLW	Lake	Lake	
31-00035	MLW	Lake	Lake	
31-00036	MLW	Lake	Lake	
31-00037	MLW	Lake	Lake	
31-00038	MLW	Lake	Lake	
31-00052	MLW	Lake	Lake	
31-00065	MLW	Lake	Lake	

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31-00104	MLW	Lake	Lake	
31-00105	MLW	Lake	Lake	
31-00147	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00147A	MLW	Lake	Lake	
31-00159	MLW	Lake	Lake	
31-00162	MLW	Lake	Lake	
31-00163	MLW	Lake	Lake	
31-00166	MLW	Lake	Lake	
31-00168	MLW	Lake	Lake	
31-00169	MLW	Lake	Lake	
31-00184	MLW	Lake	Lake	
31-00185	MLW	Lake	Lake	
31-00185Z5	MLW	Lake	Lake	
31-00186	MLW	Lake	Lake	
31-00187	MLW	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00188	MLW	Lake	Lake	
31-00189	Level	Lake	Lake	
31-00191	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00206	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00207	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
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31-00212A	Potter	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00213	Potter	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
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31-00237	MLW	Lake	Lake	
31-00243	Burtenshaw	Lake	Lake	Claimed section 12 POD - actually in section 1
31-00263	MLW	Lake	Lake	Two POD on lake
31-00363	MLW	Lake	Lake	
31-02276	MLW	Lake	Lake	Claimed in section 10 - canal fr. lake originates in 1
31-11199	Larsen	Lake	Lake	Claimed in section 10 - not on lake - needs research. Old rights 164, 165
31-11335	Level	Lake	Lake	
31-07005	MLW	Lake	Wells	Claimed in error - GW license

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IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION WATER MASTER REPORT
BY WATER SOURCE/CURRENT OWNER LAST NAME

*MPOD: Y = Multiple Pts of Diversion, Pod Diversion Rate(s) is 0
U = Multiple Pts of Diversion, Pod Diversion Rate(s) Not 0
N = No Multiple Pts of Diversion (1 or less)

WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	STG	POINT OF DIVERSION	FLG	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	USE
WATER SOURCE: CAMAS CREEK									
A31-00360	HOLLEY WATER USERS ASSN	11/17/1918	D	06N 34E 1 SESESE		3.000 CFS		Y	01
~~A31-00354~~	~~HOLLEY WATER USERS ASSN~~	~~12/14/1914~~	~~D~~	~~07N 35E 36 SENWNW~~		~~0.800 CFS~~		~~Y~~	~~01~~
A31-10960	HOLLEY WATER USERS ASSN	11/05/1917	D	06N 34E 1 SESESE		2.360 CFS		Y	01
~~A31-10962~~	~~HOLLEY WATER USERS ASSN~~	~~01/01/1924~~	~~D~~	~~07N 35E 36 SENWNW~~		~~1.940 CFS~~		~~Y~~	~~01~~
A31-00355	HOLLEY WATER USERS ASSN	12/03/1916	D	07N 35E 36 SENWNW		0.800 CFS		Y	01
A31-00344	HOLLEY WATER USERS ASSN	11/12/1913	D	07N 35E 36 SENWNW		1.700 CFS		Y	01
A31-10957	HOLLEY WATER USERS ASSN	02/20/1913	D	07N 35E 36 SENWNW		2.500 CFS		Y	01
A31-10958	HOLLEY WATER USERS ASSN	11/01/1914	D	07N 35E 36 SENWNW		2.700 CFS		Y	01
A31-00345	HOLLEY WATER USERS ASSN	03/04/1914	D	07N 35E 36 SENWNW		0.800 CFS		Y	01
A31-10959	HOLLEY WATER USERS ASSN	06/16/1916	D	07N 35E 36 SENWNW		7.980 CFS		Y	01
A31-00361	HOLLEY WATER USERS ASSN	05/21/1920	D	07N 35E 36 SENWNW		2.400 CFS		Y	01
A31-10961	HOLLEY WATER USERS ASSN	01/11/1918	D	07N 35E 36 SENWNW		6.180 CFS		Y	01
WATER SOURCE: MUD LAKE									
A31-00243	BURTENSHAW, DON M	09/18/1914	D	06N 34E 12 NWNWNW		2.600 CFS		N	01
A31-00027	BURTENSHAW, DON M	12/03/1916	D	06N 34E 1 SWSWSW		3.000 CFS		N	01
A31-00026	BURTENSHAW, VAN	06/01/1915	D	06N 34E 1 SWSWSW		1.000 CFS		N	01
A31-00209	DOBSON RANCH PARTNERSHIP	05/01/1927	D	06N 34E 12 SENENE		0.700 CFS		N	01
A31-00207	DOBSON RANCH PARTNERSHIP	05/01/1912	D	06N 34E 12 SENENE		0.200 CFS		N	01
A31-00147	DOBSON RANCH PARTNERSHIP	04/15/1912	D	06N 34E 12 SENENE		7.000 CFS		N	01
A31-00191	DOBSON RANCH PARTNERSHIP	04/15/1912	D	06N 34E 12 SENENE		7.000 CFS		N	01
A31-00208	DOBSON RANCH PARTNERSHIP	05/01/1926	D	06N 34E 12 SENENE		0.300 CFS		N	01
A31-00206	DOBSON RANCH PARTNERSHIP	05/01/1911	D	06N 34E 12 SENENE		0.600 CFS		N	01
A31-11199	LARSEN, BLAINE L	12/31/1919	D	06N 34E 10		1.800 CFS		Y	01
A31-00169	MUD LAKE WATER USERS INC	12/10/1917	D	06N 34E 1 NESE		1.600 CFS		Y	01
A31-00147A	MUD LAKE WATER USERS INC	07/21/1913	D	06N 34E 1 SESW		4.000 CFS		Y	01
A31-00052	MUD LAKE WATER USERS INC	09/06/1913	D	06N 34E 1 SESW		2.500 CFS		Y	01
A31-00263	MUD LAKE WATER USERS INC	10/14/1912	D	06N 34E 1 SESW		2.680 CFS		Y	01
A31-02276	MUD LAKE WATER USERS INC	01/17/1969	D	06N 34E 11 NESE		10.000 CFS		Y	01
A31-00188	MUD LAKE WATER USERS INC	03/09/1911	D	06N 34E 1 SESW		1.600 CFS		Y	01
A31-00232	MUD LAKE WATER USERS INC	05/01/1923	D	06N 34E 1 SESW		1.600 CFS		Y	01
A31-00159	MUD LAKE WATER USERS INC	06/24/1916	D	06N 34E 1 NESE		2.440 CFS		Y	01
A31-00184	MUD LAKE WATER USERS INC	04/15/1912	D	06N 34E 1 SESE		80.800 CFS		Y	01
A31-00034	MUD LAKE WATER USERS INC	05/01/1920	D	06N 34E 1 SESW		3.200 CFS		Y	01
A31-00104	MUD LAKE WATER USERS INC	10/18/1913	D	06N 34E 1 SESW		3.000 CFS		Y	01
A31-00163	MUD LAKE WATER USERS INC	12/03/1916	D	06N 34E 1 SESW		1.000 CFS		Y	01
A31-00185Z5	MUD LAKE WATER USERS INC	12/02/1916	D	06N 34E 1 SESW		72.600 CFS		Y	01
A31-00186	MUD LAKE WATER USERS INC	08/11/1924	D	06N 34E 1 NESE		75.000 CFS		Y	01
A31-00166	MUD LAKE WATER USERS INC	09/05/1912	D	06N 34E 1 NESE		1.720 CFS		Y	01
A31-00105	MUD LAKE WATER USERS INC	12/15/1913	D	06N 34E 1 SESW		1.600 CFS		Y	01
A31-00035	MUD LAKE WATER USERS INC	05/01/1921	D	06N 34E 1 NESE		6.400 CFS		Y	01
A31-00168	MUD LAKE WATER USERS INC	10/03/1910	D	06N 34E 1 SESW		1.600 CFS		Y	01

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U = Multiple Pts of Diversion, Pod Diversion Rate(s) Not 0
N = No Multiple Pts of Diversion (1 or less)

WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	STG	POINT OF DIVERSION	FLG	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	USE
A31-00036	MUD LAKE WATER USERS INC	05/01/1922	D	06N 34E 1 SESW		9.600 CFS		Y	01
A31-00038	MUD LAKE WATER USERS INC	08/28/1924	D	06N 34E 1 SESW		0.800 CFS		Y	01
A31-00037	MUD LAKE WATER USERS INC	05/01/1923	D	06N 34E 1 SESE		6.400 CFS		Y	01
~~A31-00065~~	~~MUD LAKE WATER USERS INC~~	~~10/03/1910~~	~~D~~	~~07N 34E 34 SWSW~~		~~1.600 CFS~~		~~Y~~	~~01~~
A31-00363	MUD LAKE WATER USERS INC	08/28/1926	D	06N 34E 1 SWSE		6.400 CFS		Y	01
A31-00237	MUD LAKE WATER USERS INC	11/28/1919	D	06N 34E 1 NESE		2.400 CFS		Y	01
A31-00162	MUD LAKE WATER USERS INC	06/01/1916	D	06N 34E 1 SESW		1.000 CFS		Y	01
A31-00185	MUD LAKE WATER USERS INC	12/02/1916	D	06N 34E 1 SESW		72.600 CFS		Y	01
A31-00006	MUD LAKE WATER USERS INC	12/10/1917	D	06N 34E 1 SESW		1.400 CFS		Y	01
A31-00187	MUD LAKE WATER USERS INC	05/01/1921	D	06N 34E 1 SESW		25.000 CFS		Y	01
A31-00210	POTTER JR, JOSEPH B	05/01/1911	D	06N 34E 11 NENENE		0.800 CFS		N	01
A31-00211	POTTER JR, JOSEPH B	05/01/1912	D	06N 34E 11 NENENE		0.200 CFS		N	01
A31-00213	POTTER JR, JOSEPH B	05/01/1928	D	06N 34E 11 NENENE		0.400 CFS		N	01
A31-00212A	POTTER JR, JOSEPH B	05/01/1927	D	06N 34E 11 NENENE		0.600 CFS		N	01

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OD-5813
AJ5813NP
SELECTION FILE: 6N35E-SW

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION WATER MASTER REPORT
BY WATER SOURCE/CURRENT OWNER LAST NAME

DATE: 06/01/00
TIME: 14:44:43
PAGE: 1

*MPOD: Y = Multiple Pts of Diversion, Pod Diversion Rate(s) is 0
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WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	ST G	POINT OF DIVERSION	FL G	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	US E
WATER SOURCE: CAMAS CREEK									
A31-00143	JACKETT CANAL COMPANY	03/29/1911	D	06N 35E 3 NWNW 4		1.000 CFS		Y	01
~~A31-00190~~	~~JACKETT CANAL COMPANY~~	~~10/14/1913~~	~~D~~	~~07N 35E 7 SWSW~~		~~5.900 CFS~~		~~Y~~	~~01~~
A31-00144	JACKETT CANAL COMPANY	09/21/1912	D	06N 35E 3 NWNW 4		1.000 CFS		Y	01
A31-00135	JACKETT CANAL COMPANY	06/10/1912	D	06N 35E 3 NWNW 4		2.500 CFS		N	01
A31-00134	JACKETT CANAL COMPANY	03/20/1911	D	06N 35E 3 NWNW 4		3.500 CFS		Y	01
~~A31-10649~~	~~MARTY, JOSEPH M~~	~~06/01/1930~~	~~J~~	~~07N 35E 33 SWSW~~		~~0.110 CFS~~		~~Y~~	~~04~~
A31-11337	SHULDBERG, KEITH C	04/01/1980	J	06N 35E 4 NENENE		0.630 CFS		N	01
A31-00019	SHULDBERG, KEITH C	04/22/1908	D	06N 35E 4 NENENE		1.700 CFS		N	01
WATER SOURCE: MUD LAKE									
A31-00192	JACKETT CANAL COMPANY	09/08/1917	D	06N 35E 3 NWNW		3.000 CFS		Y	01
~~A31-02276~~	~~MUD LAKE WATER USERS INC~~	~~01/17/1969~~	~~D~~	~~06N 34E 11 NESE~~		~~10.000 CFS~~		~~Y~~	~~01~~

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IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION WATER MASTER REPORT
BY WATER SOURCE/CURRENT OWNER LAST NAME

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WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	STG	POINT OF DIVERSION	FLG	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	US E
WATER SOURCE: CANAL SEEPAGE									
A31-02420	JEFFERSON IRRIGATION COMPANY	04/02/1965	L	07N 34E 20 NESENW		15.000 CFS		Y	01
WATER SOURCE: JEFFERSON LAKE									
A31-02134	JEFFERSON IRRIGATION COMPANY	02/01/1914	L	07N 34E 17 SESESE		38.400 CFS		N	01
WATER SOURCE: JOHNSTON LAKE									
A31-10996	AMERICA ACTING THROUGH, UNITED STAT	01/01/1880	J	07N 34E 11 NWSW		1.000 AFA		Y	04
31-10996	AMERICA ACTING THROUGH, UNITED STAT	01/01/1880	J	07N 34E 11 NENWSW		1.000 AFA		Y	04
WATER SOURCE: MUD LAKE									
R31-00189	LEVEL CANAL CO INC	09/17/1912	D	07N 34E 33 SWSESE		22.400 CFS	LEVEL CANAL	N	01
A31-00189	LEVEL CANAL COMPANY INC	09/17/1912	D	07N 34E 33 SESESE		22.400 CFS		Y	01
A31-00005	LEVEL CANAL COMPANY INC	10/03/1910	D	07N 34E 33 SESESE		1.600 CFS		Y	01
A31-11335	LEVEL CANAL COMPANY INC	05/01/1952	J	07N 34E 33 SWSWSW	R	11.090 CFS		Y	01
~~A31-00232~~	~~MUD LAKE WATER USERS INC~~	~~05/01/1923~~	~~D~~	~~06N 34E 1 SESW~~		~~1.600 CFS~~		~~Y~~	~~01~~
A31-00147A	MUD LAKE WATER USERS INC	07/21/1913	D	06N 34E 1 SESW		4.000 CFS		Y	01
A31-00052	MUD LAKE WATER USERS INC	09/06/1913	D	06N 34E 1 SESW		2.500 CFS		Y	01
A31-00263	MUD LAKE WATER USERS INC	10/14/1912	D	06N 34E 1 SESW		2.680 CFS		Y	01
A31-00187	MUD LAKE WATER USERS INC	05/01/1921	D	06N 34E 1 SESW		25.000 CFS		Y	01
A31-00169	MUD LAKE WATER USERS INC	12/10/1917	D	06N 34E 1 NESE		1.600 CFS		Y	01
A31-00159	MUD LAKE WATER USERS INC	06/24/1916	D	06N 34E 1 NESE		2.440 CFS		Y	01
A31-00034	MUD LAKE WATER USERS INC	05/01/1920	D	06N 34E 1 SESW		3.200 CFS		Y	01
A31-00104	MUD LAKE WATER USERS INC	10/18/1913	D	06N 34E 1 SESW		3.000 CFS		Y	01
A31-00163	MUD LAKE WATER USERS INC	12/03/1916	D	06N 34E 1 SESW		1.000 CFS		Y	01
A31-00185	MUD LAKE WATER USERS INC	12/02/1916	D	06N 34E 1 SESW		72.600 CFS		Y	01
A31-00185A25	MUD LAKE WATER USERS INC	12/02/1916	D	06N 34E 1 SESW		72.600 CFS		Y	01
A31-00166	MUD LAKE WATER USERS INC	09/05/1912	D	06N 34E 1 NESE		1.720 CFS		Y	01
A31-00105	MUD LAKE WATER USERS INC	12/15/1913	D	06N 34E 1 SESW		1.600 CFS		Y	01
A31-00035	MUD LAKE WATER USERS INC	05/01/1921	D	06N 34E 1 NESE		6.400 CFS		Y	01
A31-00168	MUD LAKE WATER USERS INC	10/03/1910	D	06N 34E 1 SESW		1.600 CFS		Y	01
A31-00036	MUD LAKE WATER USERS INC	05/01/1922	D	06N 34E 1 SESW		9.600 CFS		Y	01
A31-00038	MUD LAKE WATER USERS INC	08/28/1924	D	06N 34E 1 SESW		0.800 CFS		Y	01
A31-00037	MUD LAKE WATER USERS INC	05/01/1923	D	06N 34E 1 SESE		6.400 CFS		Y	01
A31-00184	MUD LAKE WATER USERS INC	04/15/1912	D	06N 34E 1 SESE		80.800 CFS		Y	01
~~A31-00162~~	~~MUD LAKE WATER USERS INC~~	~~05/01/1918~~	~~D~~	~~06N 34E 1 SESW~~		~~1.000 CFS~~		~~Y~~	~~01~~
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 34E 13 SWNE		13.260 CFS		Y	01
~~A31-00006~~	~~MUD LAKE WATER USERS INC~~	~~12/10/1917~~	~~D~~	~~06N 34E 1 SESW~~		~~1.400 CFS~~		~~Y~~	~~01~~
~~A31-00188~~	~~MUD LAKE WATER USERS INC~~	~~03/09/1911~~	~~D~~	~~06N 34E 1 SESW~~		~~1.600 CFS~~		~~Y~~	~~01~~

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WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	STG	POINT OF DIVERSION	FLG	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	USE
~~A31-00363~~	~~MUD LAKE WATER USERS INC~~	~~08/28/1926~~	~~D~~	~~06N 34E 1 SWSE~~		~~6.400 CFS~~		~~Y~~	~~01~~
~~A31-00237~~	~~MUD LAKE WATER USERS INC~~	~~11/28/1919~~	~~D~~	~~06N 34E 1 NESE~~		~~2.400 CFS~~		~~Y~~	~~01~~
A31-00065	MUD LAKE WATER USERS INC	10/03/1910	D	07N 34E 34 SWSW		1.600 CFS		Y	01
~~A31-00186~~	~~MUD LAKE WATER USERS INC~~	~~08/11/1924~~	~~D~~	~~06N 34E 1 NESE~~		~~75.000 CFS~~		~~Y~~	~~01~~
WATER SOURCE: WASTE WATER									
A31-02420	JEFFERSON IRRIGATION COMPANY	04/02/1965	L	07N 34E 20 NESENW		15.000 CFS		Y	01

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WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	ST G	POINT OF DIVERSION	FL G	TOTAL DIVERSION	POD DIVERSION NAME	*MPOD	USE
WATER SOURCE: CAMAS CREEK									
~~A31-00276~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~04/01/1883~~	~~D~~	~~07N 35E 1 NWSE~~		~~1.700 CFS~~		~~Y~~	~~16~~
~~A31-00270~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~04/01/1884~~	~~D~~	~~08N 36E 32 SENW~~		~~1.500 CFS~~		~~Y~~	~~16~~
~~A31-00269~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~04/01/1883~~	~~D~~	~~08N 36E 32 SENW~~		~~1.500 CFS~~		~~Y~~	~~16~~
~~A31-00280~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~04/01/1895~~	~~D~~	~~08N 36E 32 SENW~~		~~4.000 CFS~~		~~Y~~	~~16~~
A31-00284	AMERICA, ACTING THROUGH, UNITED STA	05/26/1911	D	07N 35E 1 NWSE		1.600 CFS		Y	16
~~A31-00275~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~04/01/1887~~	~~D~~	~~08N 36E 32 SENW~~		~~3.000 CFS~~		~~Y~~	~~16~~
~~A31-00281~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~07/30/1903~~	~~D~~	~~08N 36E 32 SENW~~		~~2.460 CFS~~		~~Y~~	~~16~~
A31-00278	AMERICA, ACTING THROUGH, UNITED STA	04/01/1885	D	07N 35E 1 NWSE		9.500 CFS		Y	16
A31-00271	AMERICA, ACTING THROUGH, UNITED STA	04/01/1885	D	07N 35E 1 NWSE		7.000 CFS		Y	16
~~A31-00283~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~03/23/1909~~	~~D~~	~~08N 36E 32 SENW~~		~~2.240 CFS~~		~~Y~~	~~16~~
A31-00273	AMERICA, ACTING THROUGH, UNITED STA	04/01/1895	D	07N 35E 1 NWSE		1.500 CFS		Y	16
A31-00274	AMERICA, ACTING THROUGH, UNITED STA	04/01/1883	D	07N 35E 1 NWSE		6.000 CFS		Y	16
~~A31-00279~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~04/01/1887~~	~~D~~	~~08N 36E 32 SENW~~		~~1.200 CFS~~		~~Y~~	~~16~~
~~A31-00277~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~04/01/1884~~	~~D~~	~~08N 36E 32 SENW~~		~~1.700 CFS~~		~~Y~~	~~16~~
~~A31-00272~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~04/01/1886~~	~~D~~	~~08N 36E 32 SENW~~		~~2.000 CFS~~		~~Y~~	~~16~~
~~A31-00282~~	~~AMERICA, ACTING THROUGH, UNITED STA~~	~~08/25/1902~~	~~D~~	~~08N 36E 32 SENW~~		~~11.200 CFS~~		~~Y~~	~~16~~
A31-00361	HOLLEY WATER USERS ASSN	05/21/1920	D	07N 35E 36 SENWNW		2.400 CFS		Y	01
A31-00354	HOLLEY WATER USERS ASSN	12/14/1914	D	07N 35E 36 SENWNW		0.800 CFS		Y	01
A31-00344	HOLLEY WATER USERS ASSN	11/12/1913	D	07N 35E 36 SENWNW		1.700 CFS		Y	01
A31-10961	HOLLEY WATER USERS ASSN	01/11/1918	D	07N 35E 36 SENWNW		6.180 CFS		Y	01
~~A31-10960~~	~~HOLLEY WATER USERS ASSN~~	~~11/05/1917~~	~~D~~	~~06N 34E 1 SESESE~~		~~2.360 CFS~~		~~Y~~	~~01~~
~~A31-00360~~	~~HOLLEY WATER USERS ASSN~~	~~11/17/1918~~	~~D~~	~~06N 34E 1 SESESE~~		~~3.000 CFS~~		~~Y~~	~~01~~
A31-10958	HOLLEY WATER USERS ASSN	11/01/1914	D	07N 35E 36 SENWNW		2.700 CFS		Y	01
A31-00345	HOLLEY WATER USERS ASSN	03/04/1914	D	07N 35E 36 SENWNW		0.800 CFS		Y	01
A31-00355	HOLLEY WATER USERS ASSN	12/03/1916	D	07N 35E 36 SENWNW		0.800 CFS		Y	01
A31-10962	HOLLEY WATER USERS ASSN	01/01/1924	D	07N 35E 36 SENWNW		1.940 CFS		Y	01
A31-10957	HOLLEY WATER USERS ASSN	02/20/1913	D	07N 35E 36 SENWNW		2.500 CFS		Y	01
A31-10959	HOLLEY WATER USERS ASSN	06/16/1916	D	07N 35E 36 SENWNW		7.980 CFS		Y	01
A31-00190	JACKETT CANAL COMPANY	10/14/1913	D	07N 35E 7 SWSW		5.900 CFS		Y	01
~~A31-00144~~	~~JACKETT CANAL COMPANY~~	~~09/21/1912~~	~~D~~	~~06N 35E 3 NWNW~~	4	~~1.000 CFS~~		~~Y~~	~~01~~
~~A31-00134~~	~~JACKETT CANAL COMPANY~~	~~03/20/1911~~	~~D~~	~~06N 35E 3 NWNW~~	4	~~3.500 CFS~~		~~Y~~	~~01~~
~~A31-00143~~	~~JACKETT CANAL COMPANY~~	~~03/29/1911~~	~~D~~	~~06N 35E 3 NWNW~~	4	~~1.000 CFS~~		~~Y~~	~~01~~
~~A31-10649~~	~~MARTY, JOSEPH M~~	~~08/01/1930~~	~~J~~	~~07N 35E 35 SWSW~~		~~0.110 CFS~~		~~Y~~	~~04~~
~~A31-10148~~	~~SMITH, ELWOOD~~	~~12/31/1942~~	~~J~~	~~07N 35E 36 NW~~		~~0.660 CFS~~		~~Y~~	~~04~~
~~A31-10117~~	~~VADNAIS, TED L~~	~~05/01/1900~~	~~J~~	~~07N 35E 36 NENW~~		~~0.230 CFS~~		~~Y~~	~~04~~
~~31-10117~~	~~VADNAIS, TED L~~	~~05/01/1900~~	~~D~~	~~07N 35E 36 NENW~~		~~0.230 CFS~~		~~Y~~	~~04~~
WATER SOURCE: MUD LAKE									
~~A31-00192~~	~~JACKETT CANAL COMPANY~~	~~09/08/1917~~	~~D~~	~~06N 35E 3 NWNW~~		~~5.000 CFS~~		~~Y~~	~~01~~
A31-07005	MUD LAKE WATER USERS INC	12/04/1967	D	07N 34E 13 SWNE		13.260 CFS		Y	01
A31-00328	MUD LAKE WATER USERS INC	09/05/1912	D	07N 35E 25 NESE		100.000 CFS		Y	01

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NOV 25 2002

Allotment	Decree ~~Right~~ Nos	WR #							
7		31-00019	1.7 cfs	1908					
13		31-0026, 31-0027	1.0	1915,	3.0	1916			
28		31-0052	2.5	1913					
53		31-0104	3.0	1913					
54		31-0105	1.6	1913					
57		31-0362, 354, 355	1.6	1923,	0.8	1914,	0.8	1916	
70		31-00134, 135	3.5	1911,	2.5	1912			
75		31-00143, 144	1.0	1911,	1.0	1912			
78		31-00147	4.0	1913					
81		31-00159	2.44	1916					
84		31-00162, 163	1.0	1915,	1.0	1916			
97		31-00184-188	80.8	1912,	72.6	1916,	75	1924,	25 1921, 1.6 1911
98		31-00184	22.4, 1912						
99		31-00190, 191, 192	5.9	1913,	7.0	1912,	3.0	1917	
106		31-206-209	0.6	1911,	0.2	1912,	0.3	1926,	0.7 1927
107		31-210-213	0.8	1911,	0.2	1912,	0.6	1927,	0.4 1928
113		~~31-00222~~ 223 (not claimed)	2.0	1915,	1.2	1919			
129		31-00243	2.6	1914					

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NOV 25 2002

Allotment Decree #	WR #			
138	31-00263 ✓	2.68	1912	
2	31-0005 ✓, 31-00006 ✓	1.6	1910,	1.4 1917
* 33	31-00062, 63	21.2	1917,	8.8 1928
88	31-00168 ✓, 169	1.6	1910,	1.6 1917
89	31-170, 171 not claimed	1.2	1916,	1.2 1919
35 (Hanson)	31-00065 ✓	3.0	1910	

* Haven Canal - error / mis-read.

Holley v. Kulp

Nielson	1.72	1912	
McClain	0.80	1913	} 31-10957 / 31-00342, 343
Cope Holley	1.70	1913	

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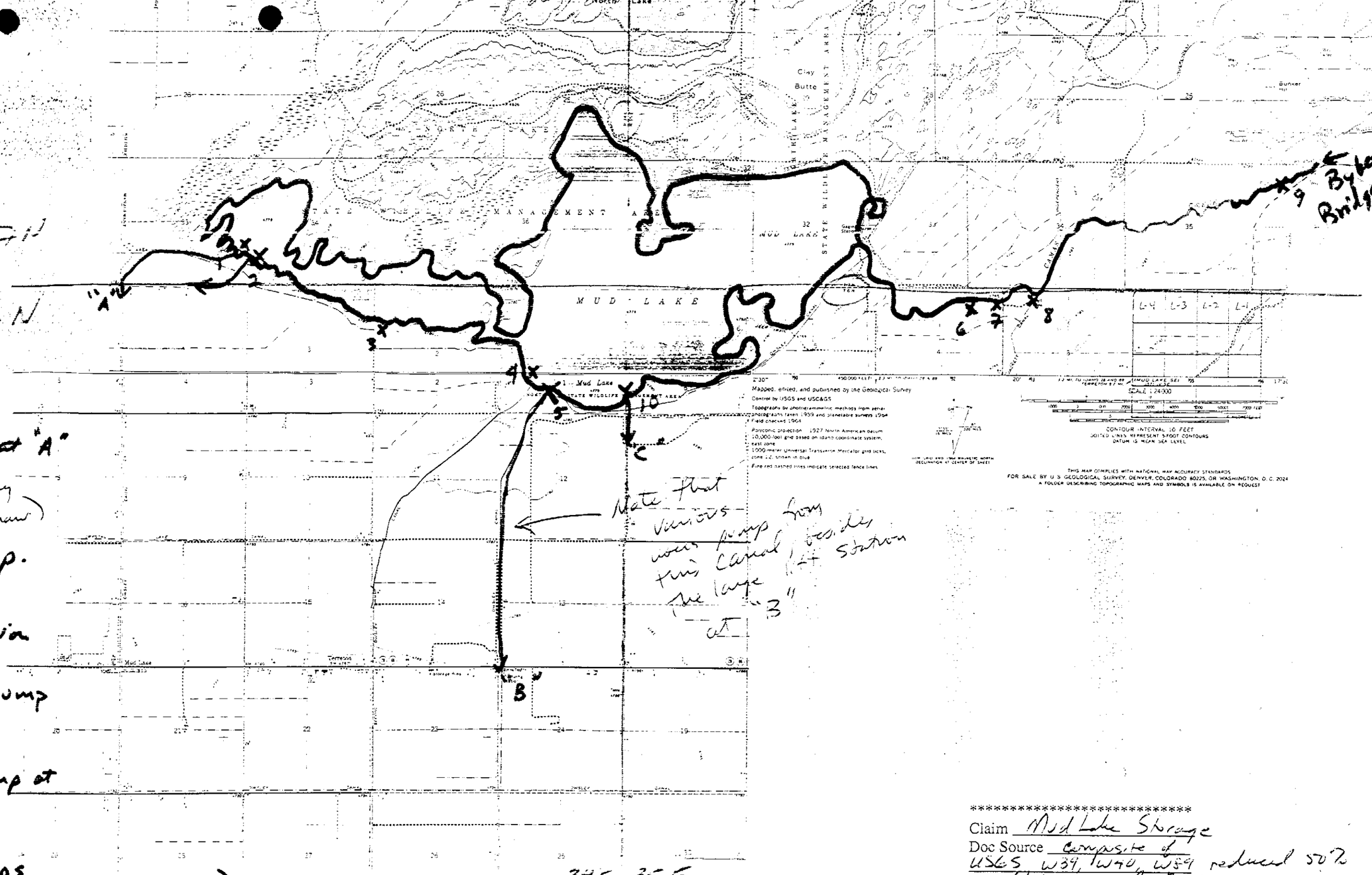
NOV 25 2002



1) Owsley - pump at "A"

2) Level (Shively (David Burtenshaw)

3) ~~Shively~~ Pump. Probably an Owsley Diversion

4) Burtenshaw pump

5) Owsley - pump at "B"

6) Unknown pumps

7) Shuldberg pump

8) Jackett Diversion & pumps

9) Holley creek pump

10) Dobson - pump at "C"

Note that various pumps from this canal (besides 1st station the large 3" at

****

Claim Mud Lake Storage

Doc Source Composite of USGS W39, W40, W59 reduced 50%

Date 6/2/00 Sig. D Coulter

DRAFT

BASIN 31 General Provisions

1. Allotment System ~~(Do we want to call this calculation of storage water?)~~:

a. On or about May 1st of each year, the Director of the Idaho Department of Water Resources ("Director") shall compute the amount of water available in Mud Lake for diversion and use. This computation shall be made from the United States Geological Survey gauge located at the mouth of Camas Creek. To this calculation, the Director shall add the estimated inflow volume from Camas Creek between the period of May 1st to September 1st. The amount of water in the lake, plus said estimated inflow, shall be the amount of waters of Mud Lake available for use that irrigation season. On or about May 1st of each year, the Director shall compute in acre feet the allotment of water necessary to fill each right from May 1st to September 1st in the order of their respective priorities.

b. Beginning on May 1st of each year and at least every 15 days from May 1st until ~~September 1st~~ the end of the irrigation season, the Director shall compute the amount of water used by each right, including the amount of water used prior to May 1st and the amount of water remaining available to fill such rights. The Director shall take into consideration actual accretion to the lake from natural inflow. Each right shall be charged its proportionate part of the evaporation and other losses in the lake. At such time that all rights cannot be completely filled through September 1st, the junior right(s) shall be cut off.

2. 35% per month limitation.

If the total demand for water from Mud Lake is made that would be greater than the volume of the lake as determined in 1(a) above, then the Director may determine that the water user(s) may not withdraw more than 35% of his/her total right in any calendar month. All water, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's seasonal allotment.

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NOV 25 2002

Basin 31 Remark

Early Season Pumping: ~~If, based on the discretion of the Director of the Idaho Department of Water Resources, ("Director") the natural inflows to Mud Lake will not be sufficient to fill the lake and supply all of the rights to the use of water from Mud Lake, then the Director may allow groundwater to be pumped prior to May 1st to augment the flows into Mud Lake. The groundwater user may commence pumping, when authorized by the Director, at such rates as set by the Director, at the groundwater user's cost and expense. The groundwater user shall allow the water pumped to flow into Mud Lake to fill the lake to the maximum height on the United States Geological Survey gauge located on Mud Lake at the mouth of Camas Creek. The Director shall keep accurate records of all amounts of water pumped prior to May 1st, and shall record the same as a separate item on the record kept by him/her known as the "Mud Lake Allotment Sheet," under the heading "Well Water Balances." All such amounts pumped prior to May 1st, after deducting the amount for transmission and storage losses, shall be credited to the account of the groundwater user doing such pumping. The groundwater user shall be entitled to use this pumped water shown as a credit on the "Mud Lake Allotment Sheet" in addition to all amounts which may annually accrue and which the groundwater user might be entitled under this water right to divert and use during the irrigation season. No such credit shall be carried past November 1st of each year~~. The director may authorize pumping to storage under this right as early as March 1. Such early pumping prior to May 1 shall be subject to the Pumping Plan authorized by the director and shall bear a priority date of June 5, 1961.

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NOV 25 2002

To: Mud Lake Storage File
Fr: Bryce A. Contor Bryce
Date: 6/1/2000

Re: Items for conference call.

1. Allotment System General Provision

   Looks very good to me.

   I think we want to call it "allotment system" as this is the historical name used and known by the water users.

2. 35% Limitation

   While this is less restrictive than Suave Decree, it is more restrictive than current practice and therefore in my opinion a good compromise.

3. Basin 31 Remark

   The gauge height goal is a sensitive issue (sub, flooding, cost of spilling water on desert) and therefore instead of "The groundwater user shall allow the water… to fill the lake to the maximum height…" I suggest "to the height determined by the Director…"

   Sometimes early pumping is not due to expected lack of volume, but due to timing of Camas Creek Inflows. Therefore I propose adding to the first line "or if the expected timing of natural inflows will not allow commencement of irrigation on May 1…"

   I had originally contemplated two beneficial use claims corresponding to each GW user, one w/ 1931 priority for in-season storage, and one w/ 1961 priority for early-season storage. However, if this B31 remark included the statement "The priority date for such early-season pumping shall be March 1, 1961," could the remark be attached to the in-season storage claims and a second claim not needed?

If we had included diversion rate

Bryce / Plot pd v. source / Camas, Lake, Buffer Bridge

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DRAFT

BASIN 31 General Provisions

1. Allotment System (Do we want to call this calculation of storage water?):

a. On or about May 1st of each year, the Director of the Idaho Department of Water Resources ("Director") shall compute the amount of water available in Mud Lake for diversion and use. This computation shall be made from the United States Geological Survey gauge located at the mouth of Camas Creek. To this calculation, the Director shall add the estimated inflow volume from Camas Creek between the period of May 1st to September 1st. The amount of water in the lake, plus said estimated inflow, shall be the amount of waters of Mud Lake available for use that irrigation season. On or about May 1st of each year, the Director shall compute in acre feet the allotment of water necessary to fill each right from May 1st to September 1st in the order of their respective priorities.

b. Beginning on May 1st of each year and at least every 15 days from ~~May 1st until September 1st~~, the Director shall compute the amount of water used by each right, including the amount of water used prior to May 1st and the amount of water remaining available to fill such rights. The Director shall take into consideration actual accretion to the lake from natural inflow. Each right shall be charged its proportionate part of the evaporation losses in the lake. At such time that all rights cannot be completely filled through September 1st, the junior right(s) shall be cut off.

2. 35% per month limitation.

If the total demand for water from Mud Lake is made that would be greater than the volume of the lake as determined in 1(a) above, then the Director may determine that the water user(s) may not withdraw more than 35% of his/her total right in any calendar month. All water, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's seasonal allotment.

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Basin 31 Remark

Early Season Pumping: If, based on the discretion of the Director of the Idaho Department of Water Resources, ("Director") the natural inflows to Mud Lake will not be sufficient to fill the lake and supply all of the rights to the use of water from Mud Lake, then the Director may allow groundwater to be pumped prior to May 1st to augment the flows into Mud Lake. The groundwater user may commence pumping, when authorized by the Director, at such rates as set by the Director, at the groundwater user's cost and expense. The groundwater user shall allow the water pumped to flow into Mud Lake to fill the lake to the maximum height on the United States Geological Survey gauge located on Mud Lake at the mouth of Camas Creek. The Director shall keep accurate records of all amounts of water pumped prior to May 1st, and shall record the same as a separate item on the record kept by him/her known as the "Mud Lake Allotment Sheet," under the heading "Well Water Balances." All such amounts pumped prior to May 1st, after deducting the amount for transmission and storage losses, shall be credited to the account of the groundwater user doing such pumping. The groundwater user shall be entitled to use this pumped water shown as a credit on the "Mud Lake Allotment Sheet" in addition to all amounts which may annually accrue and which the groundwater user might be entitled under this water right to divert and use during the irrigation season. No such credit shall be carried past November 1st of each year.

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DISCUSSION OF
MUD LAKE STORAGE
AND
ALLOTTMENT SYSTEM

1. Necessary process, used annually.

2. Unique process.

3. Guidance Provided by:

   Suave v. Abbot, 1930
   Owsley Canal v. Bauerly, 1940
   Early Pumping Agreement, 1982[1]
   IDWR Administrative Direction

4. Do we need general provisions?

5. Process/Timetable?

6. Camas Creek estimates for initial allotment do not follow decreed method.

7. Over-estimate = large potential for injury.

8. Under-estimate = very low potential for injury.

9. Watermaster estimates far better than decreed method.

10. Comparison of possible decision rules.

[1] Practice dates to 1961 or earlier

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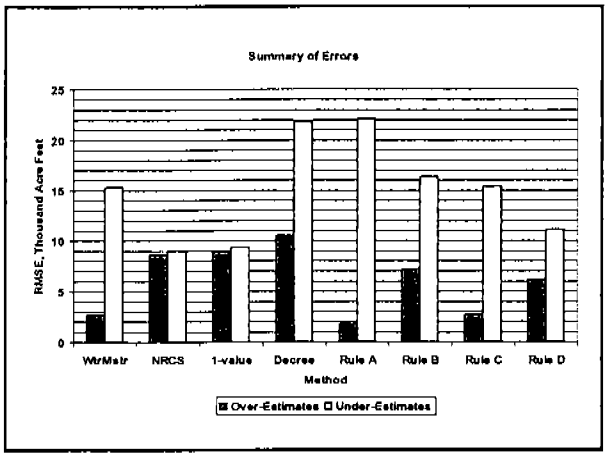

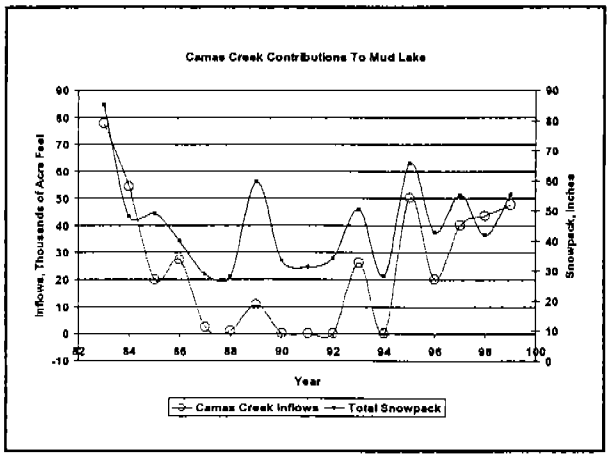

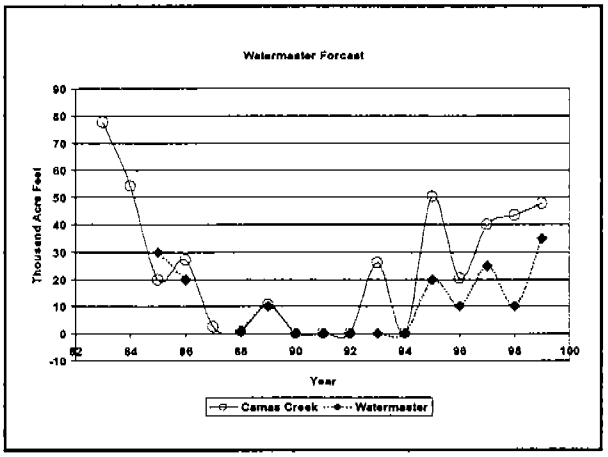

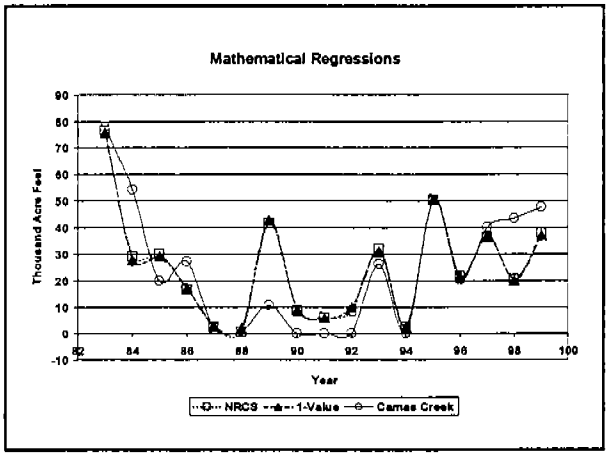

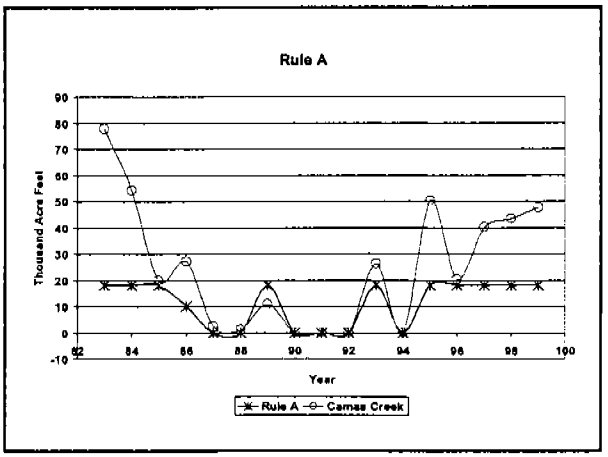

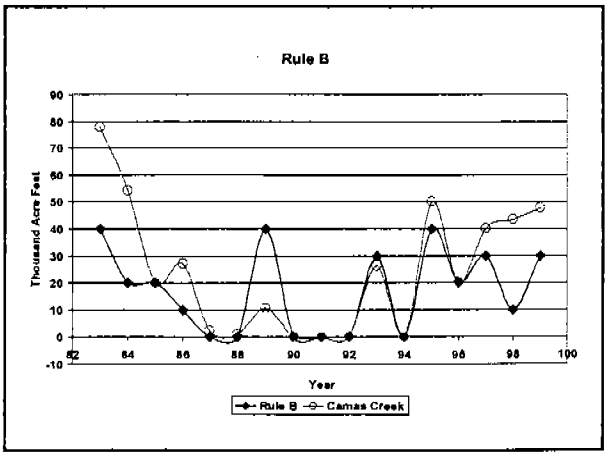

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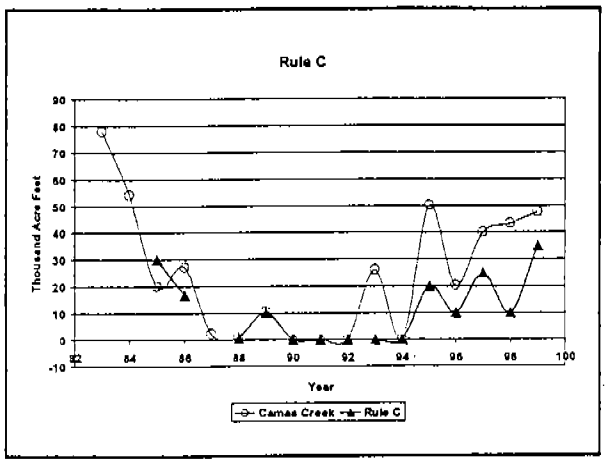

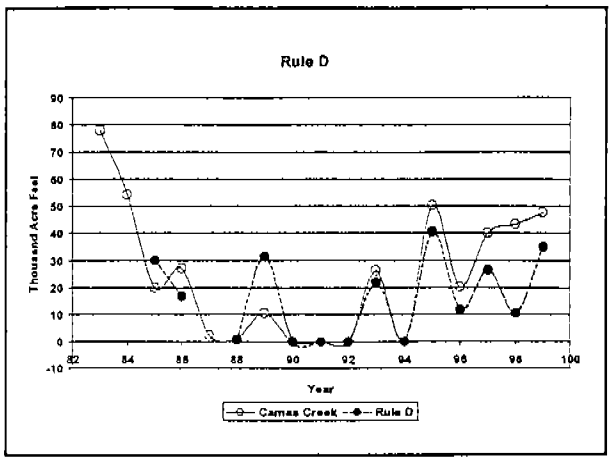

Forecasts May 1, 2000

Watermaster	_____
NRCS	16,735
1-Value	16,907
Rule A	10,000
Rule B	10,000
Rule C	Zero to 16,907 at Watermaster's Discretion
Rule D	6,907 to 16,907 at Watermaster's Discretion

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Contor, Bryce
From: Contor, Bryce
Sent: Monday, May 22, 2000 8:14 AM
To: McHugh, Candice; Carlsen, Ernie
Subject: RE: General Provision Discussion

I'm sorry I'll be missing the discussion.

1) I'll fax the minutes of the advisory meeting. Actually, it is a meeting of the Owsley Canal directors. And what we have is a computer printout of the watermaster's summary. Presumably the watermaster has or had the original. Do we need to get our hands on it?

2) There are corresponding GW rights for all the surface rights delivered from the lake, but ownership is not always one to one. Mud Lake Water Users is the result of the merger of Owsley, Holley, and Jackett Canal Companies. Those three all owned both GW and SW rights. Dobson Farms owns both GW and SW rights delivered from/through the lake. Finally, Independent Water Users is an organization that owns only GW rights, but all of its members individually own SW rights. One of Independent's owners is a canal company - Level Canal - and the rest are individuals.

3) I'll fax a copy of the 1982 agreement. It appears to cover all the SW and GW rights out of the lake, but I don't remember that it actually specifies the rights.

4) Correct me if I'm wrong, Ernie, but I think Bauerly addresses all of the owners of wells flowing into the lake. The Bauerly appeared to authorize continued development, and there are a number of wells that deliver water to the lake that did not exist in 1940. However, I believe all the wells that do deliver into the lake are handled per Bauerly. Also, there are a few wells - Lundholm's, some of the Jackett wells now owned by Marty - that no longer are delivered through the lake.

Clear as Mud? I'll be in the office most of the day today, then back on the 31st or June 1st.

-----Original Message-----
From: **McHugh, Candice**
Sent: Friday, May 19, 2000 4:32 PM
To: Carlsen, Ernie
Cc: Contor, Bryce

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NOV 25 2002

Subject: General Provision Discussion

Ernie --

Susan and Carter are going to be phoned in for the General Provision Discussion scheduled for Thursday, May 25 from 8:30 to 12:00ish. Just want to let you know. Also, there are several things that I would need to review or know: 1) the minutes of the Advisory Committee that set the priority date for early season pumping at 1961; 2) does every surface water right holder also have a ground water right?; 3) Does the 1982 agreement cover all surface water rights from Mud Lake? 4) Does the Baurele Decree contain all the wells that flow into Mud Lake?

Thanks.

Candice

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To: Mud Lake Storage File
Fr: Bryce Contor
Date: 5/16/00
Re: photos

Mud Lake Water Users Main Pumping Station, 6N 34E 24 NENENE.

Looking east, North side of pumping plant

Staff Gage

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Photos taken last week of April 2000 by B. Contor

To: Mud Lake Storage Files
Fr: Bryce A. Contor
Date: 5/18/2000

Re: Phone conversation w/ Loy Johnson

This morning I visited on the phone with Loy Johnson on the phone about the practice of early-season pumping.

1. Mr. Johnson was watermaster until 1960.

2. He is certain that early-season pumping occurred during his tenure, but he can't remember what years.

3. During his tenure, all early season pumping was accounted as natural flow into the allotment system, exactly as artesian flow was accounted per the Bauerly Decree. Johnson was certain of this and repeated it several times.

4. Any early season pumping that occurred was per a private agreement among the water users, and not per the watermaster. The watermaster was not involved in the discussion or decision. The watermaster did not measure or account for pumped inflows prior to May 1.

5. If there was any compensation to pumpers for power bills, the watermaster was not involved nor was the water district. Mr. Johnson doesn't know if any private arrangements were made for power bill compensation.

6. After May 1, the watermaster measured and accounted for all well inflows per the Bauerly Decree. He specifically recalled measuring the contributions to the Buck Springs Ditch at the POD and at the Keucher Bridge, and accounting the Well Balance accordingly. He recalls that the Buck Springs Water Users and Merritt Owsley used the Buck Springs/Independent Ditch, and he measured and accounted their contributions separately.

Based on the above, it appears that any right for early-season pumping storage with individual ownership would have to date to the Carter memo referred to in the Owsley minutes of 1961:

> "Carter of the Dept. of Reclamation told Don Shenton and Jack Gerard that the water master should give Owsley Canal Co. credit for water pumped from wells not mentioned in the decree before May 1, until someone proves differently."

Condition / recruit priority to pumped only?

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Basin 31
Season of Use

Decreed Rights

Sauve v Abbott

1. Natural flow and ground water
   - Regular irrigation rights- (no season specified) follow IDWR standard
     Note:According to W.M. this is consistent with historic deliveries.
   - High water right (spring high water season) (no season specified)
   - Wild hay rights decree states from beginning of irrigation season to July 1
2. Storage in Mud, allocated on May 1 and is component of certain decreed surface rights, refer W.M. allotment sheet (no season specified)
   - Irrigation Storage Nov 1 to Oct 31 (complies with resolution for no carry over)
   - Irrigation from Storage April 1 to Oct 31 (complies with historical practice and IDWR standard)

Owsley v Bauerle

Ground water designates May 1 to Nov 1 limited to rights listed in decree.

Holley Waterusers Association v Kulp
Jackett v Henninger
Lundholm v Henninger

No season specified, refer to recommended season for similar rights in Sauve v Abbott and Owsley v Bauerle

Beneficial Use

- Natural flow and ground water- Use IDWR standard unless previously designated by administrative action. In cases where administrative action designates a season of use shorter than standard be sure to include USE Remark to extend season so it is compatible with IDWR standard.
  S02 dates April 1 to October 31
  S06 dates April 15 to October 31
  S01 dates May 1 to October 31

- Storage

1. Early season ground water pumping , priority 1961 per minutes of Advisory Committee Meeting and reference to letter from G. Carter.

Diversion to storage	March 1 to April 30
Irrigation storage	March 1 to October 31
Irrigation from storage	April 1 to October 31

2. In season ground water pumping , priority 1952 per water district minutes.

Diversion to storage	May 1 to October 31
Irrigation storage	May 1 to October 31
Irrigation from storage	May 1 to October 31

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Claim Mud Lake Storage
Doc Source e-mail fr. Ernie Carlson
Date 5/11/00 Sig. D Carlson

Licensed/Transfer

Use IDWR standard unless previously designated by administrative action. In cases where administrative action designates a season of use shorter than standard be sure to include USE Remark to extend season so it is compatible with IDWR standard.

S02 dates April 1 to October 31
S06 dates April 15 to October 31
S01 dates May 1 to October 31

Date 5/11/00 Sig. L Coulter
****
Claim Mud Lake Storage
Doc Source e-mail fr.
Ernie Carlson

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NOV 25 2002

Contor, Bryce
From: Contor, Bryce
Sent: Thursday, May 11, 2000 8:44 AM
To: Carlsen, Ernie; McHugh, Candice; Music, Vicky
Subject: Bauerly Decree Diversion Volumes

I went through a second, more detailed analysis of losses in the Mud Lake system (though still not a "full" analysis). It still looks like the Bauerly Decree volumes are appropriate.

I was a little generous in some of my assumptions, so the loss calculations point to slightly higher volumes than the decree. However, actual diverted volumes per watermaster records are still significantly less than decreed.

When I put together the beneficial use claims for storage of groundwater, do I need a volume component for "diversion to storage?"

If I do put a volume on "diversion to storage," I assume this volume will be measured at the point of diversion, whereas the stored volume will be the volume required in the lake. The Independent, Jackett, and Owsley North Lake diversions all have significant ditch losses between the diversion and the lake, so I would have to recommend a larger diverted volume than stored volume. Is that going to trip some red flags somewhere?

Thanks, Bryce.

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To: Mud Lake Storage File
Fr: Bryce A. Contor
Date: 5/10/2000

Re: Early-season well water storage.

I. PRIORITY DATE

1. Early season pumping agreement, 1982, asserts the practice began "commencing about 1960."

2. Meeting minutes of the [Owsley Canal?] board of directors, June 1961, provided by the WD 31 Watermaster, state:

   "Mr. Carter of the Department of Reclamation in Boise stated that the watermaster should give us credit for water pumped from any wells not mentioned in the decree before May into the lake until someone proves different."

3. Meeting minutes of the board of directors, January 1957, provided by the WD 31 Watermaster, state:

   "Frank Jackett asked about starting the Bybee Wells to build up the lake level and all of the lake users on the creek pump their wells too. Vurgal Johnson asked that the matter go for a month before deciding and find out if we can legally begin to pump this early there and at North Lake."

4. Don Parker has talked to Loy Johnson, former watermaster, on the phone. Loy served in the 1950's, up until 1960. Loy is "pretty sure" they did go ahead and early pump in 1957, but not sure enough to testify in court or put it in writing. Parker reports that Loy is sure the practice did occur during his tenure.

5. Don will send me Loy's phone number, and I plan to call him. **Depending on what he says the conversation, I plan to recommend 1957, 1960, or 1961 priority date.**

II. STORAGE VOLUME

1. Independent water users pumped 6,012 acre feet of early pumping in 1996.

2. Owsley and Jackett combined pumped 26,394 acre feet of early pumping in 1991.

3. Because Independent's wells deliver through a long and leaky canal, the reported volumes are volumes delivered to the lake. Therefore, actual pumped volumes will be higher. If we need to recommend a separate volume for "diversion to storage" and

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"storage," the "diversion to storage" volume will need to be higher.

4. Combining these two historical maximum early-pumping volumes gives a historical maximum stored volume of (26,394 + 6,012) = 32,406 acre feet.

5. Garth Soderquist states he has seen the lake as low as -1.0 gauge height in early spring. Greg Shenton has seen as low as 1.5 gauge height.

6. There are years when it is anticipated that no Camas Creek inflows will occur. Per Greg, the desired lake level then to enter the season would be 7.5 - 8.0 feet gauge height. March 1996 minutes of Mud Lake Water Users meeting indicate that pre-season goals of 6.5 to 7.5 feet were discussed, with a final decision to pump to 7.0 feet gauge height.

7. Per the rating chart supplied by the watermaster, 8.0 feet corresponds to 37,930 acre feet, 7.5 corresponds to 34,700, 1.5 feet corresponds to 6714, and -1.0 corresponds to 1790 acre feet.

   The minimum possible required volume would be (34,700 - 6,714) = approximately 28,000 acre feet. The maximum possible required volume would be (37,930 - 1790) = approximately 36,000 acre feet.

8. Per the attachment to the 1982 early pumping agreement, about 26,000 acres are irrigated from the lake. 28,000/26,000 ≈ 1.08 af/acre, 32,400/26,000 ≈ 1.24 af/acre, and 36,000/26,000 ≈ 1.38 af/acre.

   For Independent alone, 6,012/4,803 ≈ 1.25 af/acre. For Owsley/Jackett alone, 26,394/21,200 ≈ 1.24 af/acre.

9. Based on the above, I plan to recommend 1.25 acre ft/acre for early-season storage. Diversion to storage will need to be adjusted for ditch loss. See loss calculation in "Diversion Volume" memo

10. Diversion to storage for Independent = $\frac{1.25 \text{ af/acre}}{.61} \approx 2.05$ af/acre

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11. Diversion to storage for Mud Lake Water Users.

Jackett = $\frac{2,800}{21,200}$ = 13%

North Lake = $\frac{5,600}{21,200}$ = 26% (See "Div. Volume" memo p 3)

Bybee/Holley = 100% - (13% + 26%) = 61%

Jackett $\frac{1.25}{.61} \times .13 = 0.27$ af/acre

North Lake $\frac{1.25}{.796} \times .26 = 0.41$ af/acre

Bybee/Holley $1.25 \times .61 = 0.76$ af/acre

Weighted avg. = 1.44 af/acre

12. Application is a [illegible] needed for the Diversion to storage component.

Bryce A. Contor

5/10/00

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TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS--Continued

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete	Erosion factors: K	Erosion factors: T	Wind erodibility group
	In	In/hr	In/in	pH	Mmhos/cm						
Rock outcrop:											
[1]106*:											
Rock outcrop part.											
Rexburg part----	0-12	0.6-2.0	0.19-0.21	7.4-8.4	<2	Low-------	High-----	Low------	0.37	5	5
	12-60	0.6-2.0	0.19-0.21	7.4-8.4	<2	Low-------	High-----	Low------	0.37		
Terreton:											
107, 108----------	0-6	2.0-20	0.06-0.10	7.9-8.4	<2	Low-------	High-----	Low------	0.17	5	3
	6-60	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37		
109, 110----------	0-6	0.6-2.0	0.14-0.18	7.9-8.4	<2	Moderate	High-----	Low------	0.32	5	4L
	6-60	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37		
111, 112----------	0-6	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37	5	4L
	6-60	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37		
[1]113*:											
Terreton part---	0-6	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37	5	4L
	6-60	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37		
Bereniceton part	0-7	0.6-2.0	0.19-0.21	7.9-8.4	<2	Low-------	High-----	Low------	0.37	3	4L
	7-14	0.6-2.0	0.16-0.18	8.5-9.0	<2	Low-------	High-----	Low------	0.28		
	14-46	0.2-0.6	0.19-0.21	8.5-9.0	<2	Moderate	High-----	Low------	0.20		
	46	---	---	---	---	---	---	---	---		
[1]114*:											
Terreton part---	0-6	0.6-2.0	0.14-0.18	7.9-8.4	<2	Moderate	High-----	Low------	0.32	5	4L
	6-60	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37		
Bereniceton part	0-7	2.0-6.0	0.11-0.13	7.9-8.4	<2	Low-------	Moderate	Low------	0.17	2	3
	7-14	0.6-2.0	0.16-0.18	8.5-9.0	<2	Low-------	Moderate	Low------	0.28		
	14-46	0.2-0.6	0.19-0.21	8.5-9.0	<2	Moderate	High-----	Low------	0.20		
	46	---	---	---	---	---	---	---	---		
Rock outcrop part.											
[1]115*:											
Terreton part---	0-6	0.6-2.0	0.14-0.18	7.9-8.4	<2	Moderate	High-----	Low------	0.32	5	4L
	6-60	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37		
Rock outcrop part.											
[1]116*:											
Terreton part--- (loamy sand)	0-6	2.0-20	0.06-0.10	7.9-8.4	<2	Low-------	High-----	Low------	0.17	5	3
	6-60	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37		
Terreton part--- (sandy clay loam)	0-6	0.6-2.0	0.14-0.18	7.9-8.4	<2	Moderate	High-----	Low------	0.32	5	4L
	6-60	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37		
[1]117*:											
Terreton part---	0-6	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37	5	4L
	6-60	0.06-0.2	0.16-0.18	7.9-8.4	<2	High------	High-----	Low------	0.37		
Zwiefel part----	0-3	2.0-6.0	0.05-0.07	7.9-8.4	<2	Low-------	Low------	Low------	0.10	4	1
	3-21	2.0-6.0	0.05-0.07	7.9-8.4	<2	Low-------	Low------	Low------	0.10		
	21-28	0.06-0.2	0.15-0.17	7.9-9.0	<2	Moderate	High-----	Low------	0.20		
	28-60	0.06-0.2	0.15-0.17	8.5-9.0	<2	High------	High-----	Low------	0.32		
Urban land:											
118*.											
Wardboro:											
119----------	0-2	2.0-6.0	0.11-0.13	7.4-8.4	<2	Low-------	Low------	Low------	0.17	1	3
	2-60	>20	0.03-0.05	7.4-8.4	<2	Low-------	Low------	Low------	0.10		

See footnote at end of table.

Date 5/11/00 Sig. L Coulton

****

Claim Mud Lake Storage

Doc Source Jeff. County Rd Soil Survey - USDA NRCS.

SCANNED NOV 26 2002

To: Mud Lake Storage File
Fr: Bryce A. Contor
Date: 5/10/00

Re: Diversion Volumes, Mud Lake GW rights

I. Losses in Lake

1) Maximum seasonal loss identified by watermaster is 29,730 acre feet in 1996.

3) 29,730 / 26,000 ≃ 1.14 af / acre lake loss

II. Losses in North Lake

1) USGS study 1994 identifies 22.8 cfs of loss out of 111.5 cfs developed.

2) 22.8 / 111.5 ≃ 20.4 % loss

3) Assume North Lake = 1/3 of Owsley capacity, based on decreed wr Σ = 390 cfs. and calculated capacities of ≃ 270 cfs (see file)

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III Losses in Ind. Ditch - wells to Lake

1) USGS study 1981 ≃ 39 %

2) USGS study 1994 ≃ 30 %

3) Use 39 %

IV Quick analysis of losses in distribution system

This is a quick analysis to evaluate appropriateness of Baseley denial. If justified, re-do w/ Worstell Analysis.

1) Assume Owsley ≃ 12 miles x 35 ft.

$$\frac{12 \times 35 \times 5280}{43560} \simeq 50 \text{ acres}$$

2) Assume Ind / Jacket ≃ 12 miles x 20 ft

$$\frac{12 \times 20 \times 5280}{43560} \simeq 34 \text{ acres}$$

≃ 3) Assume 0.5 ft/day seepage.

84 acres x 0.5 = 42 af/day

42 af/day x 214 days = 9,000 acre ft

9,000 / 26,000 ≃ 0.35 af/acre

≃ 1.44 - 4.8 in/day ≃ 0.12 - 0.4 ft/day

Note: per soil survey, expected seepage 0.06 - 0.2 in/hr

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NOV 15 2002

$\frac{9000 \text{ acre ft}}{26,000} \simeq 0.31$ acre ft/acre

V Annual Div Volume req. for Ind Ditch

1) Field Headgate req. 3.5 af/acre

2) 3.5 + 0.35 = 3.85 af/acre req. from Lake.

3) 3.85 + 1.14 = 4.99 af/acre req. to Lake

4) $.61 X = 4.99$

$X = \frac{4.99}{.61} = 8.2$ af/acre req. @ diversion

5) Baucus Decree calls for = 7 af/acre. As 3.5 af/acre is very generous, this is probably adequate.

VI Annual Div volume req. for Owsley / Holley / Jackett

1) 4.99 af/acre req. to lake per above

2) North Lake loss applies to 1/3 of original Owsley rights. $17,000 \times 0.33 \simeq 5,600$ acres

$5,600 \times 4.99 \simeq 27,900$ acre ft req. to lake

$\frac{27,900}{.796} \simeq 35,100$ acre ft req. to pump

$\frac{35,100 - 27,900}{21,200} \simeq 0.34$ acre ft / acre for North Lake loss » «

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NOV 25 2002

3) Jackett/Ind. Losses apply to = 2800 acres of original Jackett rights

$2,800 \times 4.99 = 13,900$ acre ft req to lake

$\frac{13,900}{.61} = 22,800$ acre ft req. to pump

$\frac{22,800 - 13,900}{21,200} = 0.42$ af/acre for Jackett ditch losses.

4) Bybee / Holley wells deliver directly to Lake — no loss attributed.

5) Total Mud Lake Water users req.

4.99	req. in lake
.34	North Lake loss
.42	Jackett loss
5.75	af/acre req. diversion vol.

VII Total

Total Basinly decree volumes for Mud Lake Water users

Owsley	73,000	acre ft
Holley	18,400	acre ft
Jackett	8,300	acre ft (assumes 1/2 of original Basinly volume to Manty)
Total	99,700	

$\frac{99,700}{21,200} = 4.75$ af/acre

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VII Conclusion

While the rough analysis shows slightly more req. volume than the Bauerly decree, It is probably still appropriate to use the Bauerly volumes for the following reasons:

1) Bauerly volumes are roughly proportional to calculated volumes for both users.

2) Bauerly decree has been affirmed by later dept. administrative action.

3) 3.5 af/acre is very generous, and these volumes are not far off.

4) Water users / watermaster seem comfortable w/ using Bauerly volumes.

5) My estimates of after-lake losses are probably generous for the typical clay-bottom canals in these systems.

6) These losses assume 100% of irr. needs are to be met from GW pumping. In reality, even in a dry year there will be some

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NOV 2 [illegible] 2002

initial balance in lake (either natural flow, or from early pumping), so the entire volume does not have to come from these in-season GW rights.

7) In 1996, the Banerly Volumes would have been adequate for actual usage:

Drafts fr. Lake	82,430
Lake Loss	29,730
Total req	112,160
- Allotments	21,260
Req. fr. GW	90,900
Early pumping	
Awslay 12,044	
Ind 6,012	
Total early	18,056
In-season req.	72,844

$\frac{72,844}{26,000} \approx 2.8$ af/acre

8) Had there been no water in the lake nor any Camas Creek carryover, in 1996 the Banerly Volumes still would have been adequate w/ early pumping.

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NOV 2 2002

8) continued

Drafts fr. Lake	82,430
Lake loss	29,730
Total req.	112,160
Early pumping	18,056
	94,104

$\frac{94,104}{26,000} \simeq 3.6$ af/acre

9) This is consistent w/ earlier calculations based on 1961 & 1964 allotment records.

Bryce A. Contor
5/10/00

SCANNED
NOV 25 2002

To: Mud Lake Storage File
Fr: Bryce A. Contor
Date: 5/10/2000

Re: In-season storage of well water.

I. PRIORITY DATE

1. Suave v. Abbot, 1930, Part I, Section 5, next-to-last paragraph, states:

   "In computing the capacity of Mud Lake, and the available water supply therein contained... likewise shall be disregarded any waters brought into Mud Lake from independent or non-tributary sources of supply."

2. Owsley v. Bauerly, 1940, clarifies that artesian wells are tributary during the non-irrigation season but non-tributary during the irrigation season.

3. Items one and two considered together imply a need to separately account for well water balance and surface water balance in the lake. This would point to a priority date at least as early as 1940.

4. 1934 allotment sheet for the periods Aug 1-15 and Aug 15 - 31 clearly notes a "balance" for the "Ind plus Holley" well water accounting. This points to a priority date at least as early as 1934.

5. 1931 allotment sheet "notes," item b, states "40,452 acre feet equals the lake contents May 1 plus 18,000 ac. ft. minus the independent storage." The sheet also identifies "wells" as part of the "independent" supply. This points to a priority date of 1931.

   Note that this indicates either a carried-over balance from 1930, or early-season pumping. There seems to be no other evidence for early-season pumping as early as 1931, so I do not plan to recommend a 1931 priority on the early-season well storage.

6. **I Plan to recommend May 1, 1931 priority date for in-season well storage.**

II. VOLUME

1. Maximum well balance of 1993 allotment sheet is 20,370 acre feet, the ending balance for May 1 - 15.

2. Well balance of 14,378 on June 15, 1961 allotment sheet.

3. A review of 1931, 1933, 1934, and 1993 allotment sheets seems to indicate that a gauge height of 4.5 feet is adequate to allow diversion. This corresponds to a lake

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NOV 25 2002

content of 18,090 acre feet per the rating supplied by the watermaster.

4. The attachment to the 1982 pre-season pumping agreement indicates approximately 26,000 acre feet are irrigated from the rights delivered through the lake.

5. I calculate 20,400/26,000 = 0.78.

6. **I plan to recommend volumes of 0.78 acre feet/irrigated acre for in-season irrigation storage. If any of the GW rights are overlapping one another, I plan to recommend the total volume for the combined POU, pro-rated to the rights on a per-cfs basis.**

Be sure to
subtract 5,000
af. of decreed
Holley Storage
fr. Ben. Use
Storage!!!

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SUPPLEMENTARY DISCHARGE MEASUREMENT NOTES

5 Wells. Back Springs

IND. USERS (3)	30.61
JAN[illegible] (2)	21.84
Back Springs (5)	52.45
Marty Field #3 & #4 well	12.47
total IND. Flow (7)	64.92

	Wells	Flow	Loss	Lake Flow
WOLFF LAKE	(9)	82.68	—	82.68
Bybee wells	(3)	66.10	—	66.10
Jarboe (Canal Marty Field	(2)	12.47	4.82	7.65
Jarboe Canal B.S.	(2)	21.84	8.44	13.40
IND water users	(3)	30.61	11.82	18.79
totals	(19)	213.70	25.08	188.62
totals. IND Ditch		64.92	25.08	39.84

Flow IND Ditch 64.92
flow at Bridge 39.84
Ditch Loss 25.08

.3863 % loss IND Ditch

Sept 1 to Sept. 15 Report

1981

Date 3/8/00 Sig. B. Coulton

****

Claim Mud Lake Storage

Doc Source Watermaster

WD 3

SUPPLEMENTARY DISCHARGE MEASUREMENT NOTES

5 Wells. Buck Springs

IND. USERS (3)	30.61
Jarkett Canal (2)	21.84
Buck Springs (5)	52.45
Marty Field #3 & #4 wells	12.47
total IND. Flow (7)	64.92

	Wells	Flow	Loss	Lake Flow
Wolfe Lake	(9)	82.68	—	82.68
Bybee wells	(3)	66.10	—	66.10
Jarkett Canal Marty Field	(2)	12.47	4.82	7.65
Jarkett Canal B&B	(2)	21.84	8.44	13.40
IND wells	(3)	30.61	11.82	18.79
totals -	(19)	213.70	25.08	188.62
totals - IND Ditch		64.92	25.08	39.84

Flow IND Ditch 64.92
flow at Bridge 39.84
Ditch Loss 25.08

.3863 % loss IND Ditch

Sept 1 to Sept. 15 Report

1981

RECEIVED
NOV 25 2002

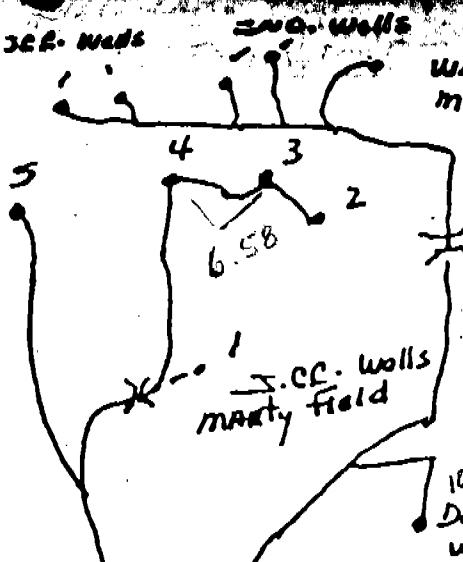
Date 5/8/00 Sig. B. Coulter

****

Claim Mud Lake Storage

Doc Source Watermaster

WD 31



Well INFLOWS
month of July
Period 1-15-95

Measuring Point Ratings Bridge

Total flow B. Spr. 64.76
J.C.C. Flow " " 33.28
IND. " " " 31.48

Owner	No. Pumps	CFS. flow	C.F.S. loss	C.F.S. Water flow
Crosby & N. Lake	9	62.12	0	62.12
" " Bybee	8	120.63	0	120.63
JCC. B. Spr.	3	33.28	10.10	23.18
JCC. Marty F	2	6.58	2.00	4.58
IND USERS. B Sp.	4	31.48	9.55	21.93
~~Totals~~ Dobson Ditch IND Ditch	1	10.51	3.19	7.32
Totals All Wells	10	81.85	24.84	57.01
Total All Wells	27.	264.60	(24.84)	239.76

Rating Station
57.01

Percent loss IND. Ditch .303481979
loss C.F.S. IND. Ditch 24.84

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NOV 25 2002

TO: Don Clenton,

FROM: R.W. Erickson and D. Cole
U.S. Geological Survey, Idaho Falls Field Office
366 D Street 529-4287

SUBJECT: Discharge measurements made of various Jefferson County delivery channels within the jurisdiction of the Owsley N. Lake Company.
Measurements made by U.S.G.S. Idaho Falls Field Office, May 31, 1994.

Measurement Start Time	Site No.	Location/Description	Pump Status	Measured CFS
1040	No. 1	Blw pump No. 1	pumping	6.9
		Pump No. 2	not pumping	
1125	No. 3	Blw pump No. 3	pumping	14.1
1210	No. 4	Flow abv 4 minus flow blw 4 (C1)	pumping	13.6**
1300	No. 5	Flow abv 5 (C1) minus flow blw 5	pumping	9.0**
0945	No. 6	Blw pump No. 6	pumping	10.6
0905	No. 7	Blw pump No. 7	pumping	13.4
0855	No. 8	Blw pump No. 8	pumping	12.2
0800	No. 9	Blw pump No. 9	pumping	9.2
0805	No. 10	Blw pump No. 10	pumping	13.7
1410	No. 11	Blw pump No. 11	pumping	8.8

Point A (55.1) to point B (52.6) (wells 6-10 above the confluence with wells 1-5) yields a 2.5 cfs loss.

Wells 6-10 (59.1) up to point A (55.1) yield a 4.0 cfs loss.

Wells 1-4 (34.6) just ahead of the confluence with well No. 5 (30.5) yields a loss of 4.1 cfs.

From well No. 11 (8.8) to the point of confluence with the N. Lake Ditch (6.3) a 2.5 cfs loss was determined.

From point B (92.1 - the accumulated flows of point B, 52.6, plus the accumulated flow blw pumps, 39.5) to C (84.7 - the accumulated flow of wells 1-10 near the old bridge) a 7.4 cfs loss was determined.

From point C to E (final reach of the N. Lake Ditch less the inflow of No. 11 in the old rock ditch) a 2.3 cfs loss was determined.

Total flow from all wells (including No. 11) yielded 111.5 cfs.

Total losses of all reaches yielded 22.8 cfs.

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**Cfs for pump Nos. 4 & 5 was determined by measuring above and below the pumps.

Please refer to this office if there are any questions. All measurements were made with a Price AA S-70 meter or a USGS Pygmy meter. Standard U.S.G.S. measuring procedures were used in all measurements.

Date 5/8/02 Sig. R. Coulter
****
Claim Mud Lake Storage
Doc Source Watermaster
WD 3

[redacted] CANAL NORTH LA[redacted] Wells

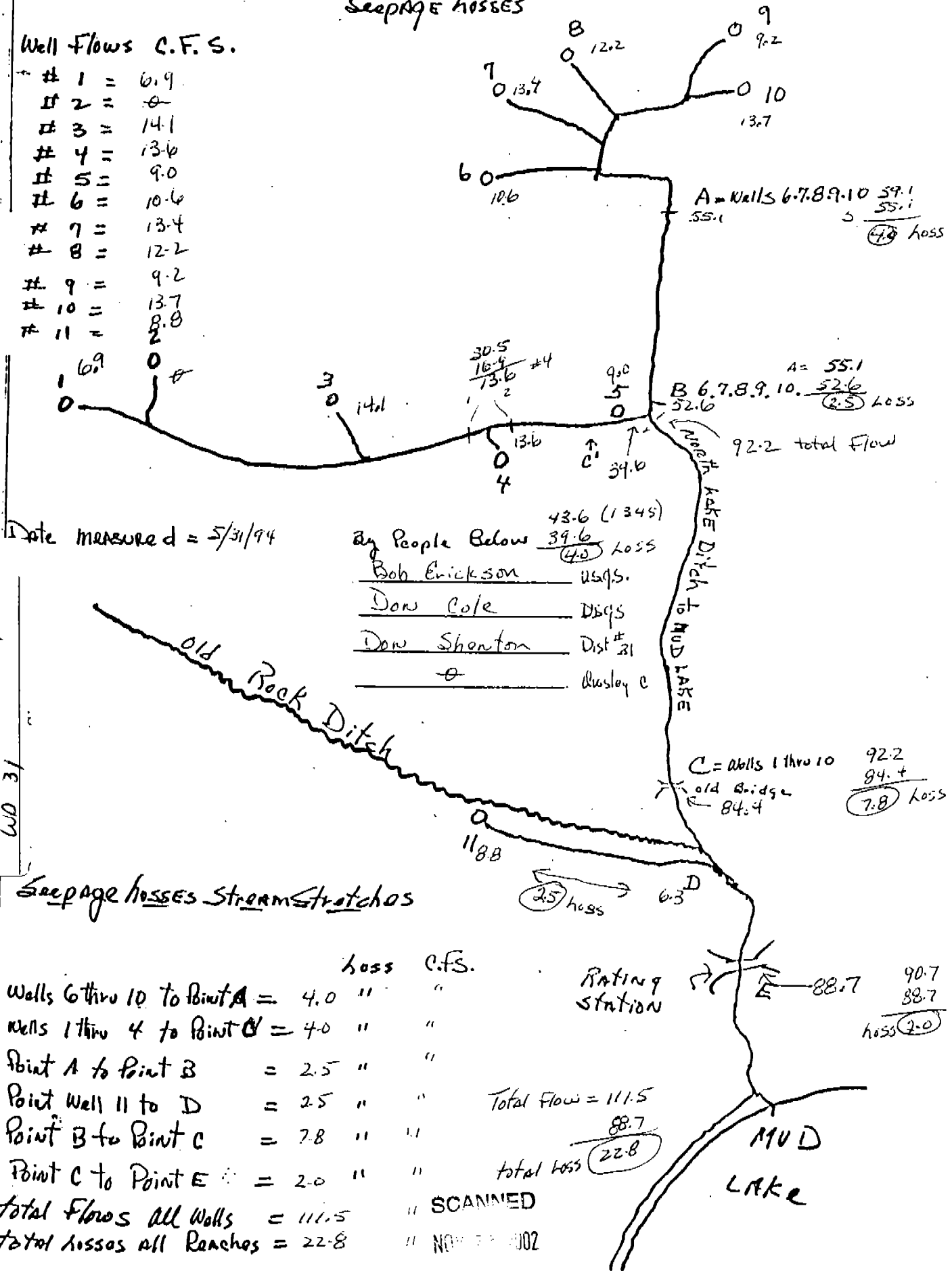
O = Well

Well Flows

Seepage losses

Well Flows C.F.S.

- # 1 = 6.9
- # 2 = ~~0~~
- # 3 = 14.1
- # 4 = 13.6
- # 5 = 9.0
- # 6 = 10.6
- # 7 = 13.4
- # 8 = 12.2
- # 9 = 9.2
- # 10 = 13.7
- # 11 = 8.8



Date measured = 5/31/94

By People Below

Bob Erickson USGS.

Don Cole DBGS

Don Shenton Dist #31

~~O~~ Owsley C

Date 5/9/00 Sig. [redacted]

Claim Mud Lake Storage

Doc Source Watermaster WD 31

****

Seepage losses Stream Stretches

	loss	C.F.S.
Wells 6 thru 10 to Point A =	4.0	" "
Wells 1 thru 4 to Point C =	4.0	" "
Point A to Point B =	2.5	" "
Point Well 11 to D =	2.5	" "
Point B to Point C =	7.8	" "
Point C to Point E =	2.0	" "
total Flows All Wells =	111.5	"
total losses all Ranchos =	22.8	"

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NOV [redacted] 2002

Bryce,

Don Parker called & said that Loy Johnson was contacted. Loy said he couldn't provide anything in writing but his remembrance was that in 56 or 57 when the canal discussed turning on the wells to store water, he thinks they did just that.

JWJ

P.S. Don said he would try to come in next week on the Independent transfer.

5/8/00

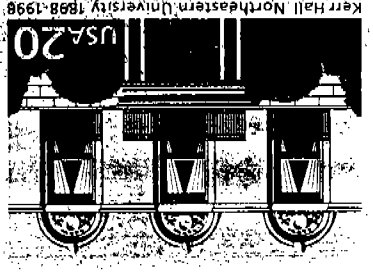
Don -

If you can get Loy Johnson to put in a letter to me just what he told you, I'll try to make it fly. Have him phrase the letter "I saw..." or "I did" (not "I believe")

Bryce

Don Parker
2032 W 4200 S
Rexburg ID
83440.

Kerr Hall Northeastern University 1898-1998



USA 20

IDWIL
900 N Skyline Ste A
Idaho Falls ID
83402

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NOV 25 2002

Contor, Bryce
From: Contor, Bryce
Sent: Monday, May 08, 2000 7:43 AM
To: McHugh, Candice; Carlsen, Ernie; Music, Vicky
Subject: 35% limitation re-visited

I think I've stumbled upon another reason the 35%/month limitation was imposed on withdrawals in the Suave decree, and it may be significant enough to warrant leaving it in:

Because the allotment system includes the allocation of an estimate of future flows, on May 1 the sum of allotted volumes is greater than the total contents of the lake.

This means that physically, it would be impossible for all the water users to demand their full allotted volume immediately.

Apparently this demand has never been made, but if it were to be made, either the watermaster would have to make the deliveries in priority order, or invoke the 35%/month rule. And if he made the deliveries in priority order, the whole estimation process would be meaningless & could be discarded; juniors would have no right to divert Camas Creek inflows until they actually occurred.

If this line of thinking isn't flawed somewhere, at least theoretically the monthly limitation is needed to make the estimated contribution meaningful.

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NOV 2 5 2002

To: Mud Lake Storage
Fr: Bryce Contor
Date: 5/1/000

Re: Site Visit

This morning I stopped at several Mud Lake sites on my way in to work.

6 AM

1) Owsley pump station at 1400 E 1500 N. Gauge height 6.08, pumps running.

2) USGS gage at mouth of Camas Creek. Gauge height > 6.50, gauge buried in mud on shoreline. Per phone call to Jake Jacobsen at USGS, there are several USGS gauges & some are inactive, maybe this was on of the inactive ones. All gauges including the one at Owlsey pump station are set to same datum.

3) Independent/Jackett canal at approximately 1820 East 1900 North. Water in canal, but I could not tell if this was backed-up lake water or water from the Buck Springs wells.

4) Holley Canal at 2010 East 1900 North. Some water backed up from downstream contributions but no pumping from main Holley well field.

5) Holley Canal immediately south of Camas Creek flume. Canal running, water appeared greenish; probably Camas Creek pump is operating. It looked like the single well next to Camas Creek was also operating.

6) Bybee Wells. Artesian basin was closed, head in creek approximately two feet higher than head in artesian basin. Camas Creek flowing. Pumped wells not operating.

7) Bridge @ Shuldbergs 7PM Gauge height 6.20

8) 5/2/00 Shenton reported using gauge height 6.20 for allotment.

USGS rating

6.00		25740
6.08	> 0.08 > 0.50	26196
6.50		28590

> 2850

$$25740 + \frac{.08}{.5} \times 2850$$

26196
− 1790
+10000
35406

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» «

Summary of Minimum Capacity

B. Coutor 4/28/00

Note that these calculations assume operation for the full period. If pumps were not operated continuously then instantaneous capacity could be higher.

Independent

Ind. 1995 ≈ (61 cfs based on estimate)

69.2 cfs	1989	early pumping
69-70 cfs	1996	early pumping
22.4 cfs	1961	Allottment sheet
28.6 cfs	1964	Allottment sheet

Ernie Carlsen
memo 1992
"Sheriton indicates Ind. wells will produce 61.2 cfs & Fackett will produce at least 35"

152 cfs	1989	early pumping
269 cfs	1992	early pumping
233.5 cfs	1993	allottment
148 cfs	1961	allottment sheet
178 cfs	1961	allottment sheet
180 cfs	1961	allottment sheet
156 cfs	1964	allottment sheet

Jackett

52 cfs	1990	early pumping
21.5 cfs	1961	allottment
18.3 cfs	1964	allottment

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Analysis of Owsley & Mud Lake Water Users Capacity B Conton 4/28/00

Independent – Early Pumping Report

April 8 89 – April 30 89 22 days 3,020 af

$\frac{3020}{22} = 137.3$ af/day

$\frac{137.3}{1.9835} \approx 69.2$ cfs

April 17th – April 28th 1995 11 days 1335 af estimate

$\frac{1335}{11} \approx 121$ af/day

$\frac{121}{1.9835} \approx 61$ cfs

Owsley AP Early Pumping Report

April '89 assume 22 days North Lake 3380

$\frac{3380}{22} \approx 154$ af/day

$\frac{154}{1.9835} \approx 77$ cfs

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Capacity p 2 B. Coulter

Owsley Early Pumping Report
April 89 assume 22 days Bybee 3300 af

$\frac{3300}{22} \approx 150$ af/day

$\frac{150}{1.9835} \approx 75$ cfs.

$75 + 77 \approx 152$ cfs

Independent Early Pumpig Report
April 96 assume 30 days 4142 af

$\frac{4142}{30} \approx 138$ af/day

$\frac{138}{1.9835} \approx 69-70$ cfs.

Owsley North Lake April 92 6900 Af
assume 30 days

$\frac{6900}{30} \approx 230$ af/day

$\frac{230}{1.9835} \approx 116$ cfs

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NOV 25 2007

» «

Capacity 13

Owsley Bybees Early Pumping Report

April 1992 assume 30 days 9120 af.

$\frac{9120}{30} \simeq 304$ af/day

$\frac{304}{1.9835} \simeq 153$ cfs

Owsley Σ 116 + 153 = 269 cfs.

Jadet Early Pumping Report.

April 1990 assume 30 days 3090 af.

$\frac{3090}{30} \simeq 103$ af/day

$\frac{103}{1.9835} \simeq 52$ cfs

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Capacity p 4

1993 Allotment Sheet - Owsley

North Lake July 15-31 16 days 2820 af.

$\frac{2820}{16} \simeq 176$ af/day

$\frac{176}{1.9835} \simeq 88.5$ cfs

Bybe July 15-31 16 days 4626 af

$\frac{4626}{16} \simeq 290$ af/day

$\frac{290}{1.9835} \simeq 145$ cfs

$\Sigma \simeq 233.5$ cfs

1961 Allotment Sheet - Owsley

May 1-15 15 days 4408 af

$\frac{4408}{15} \simeq 295$ af/day

$\frac{295}{1.9835} \simeq 148$ cfs

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NOV 25 2002

Capacity ps

Owsley 1961 Allotment sheet — May 16-31

$9872 + X - 1684 - 1170 = 12380$

$X = 12380 + 1684 + 1170 - 9872 = 5362$

$\frac{5362}{15} \approx 357$ af/day

$\frac{357}{1.9835} \approx 180$ afs

Owsley 1961 Allotment Sheet — June 1-15

$3642 + 1630 = 5272$

$\frac{5272}{15} \approx 351$ af/day

$\frac{351}{1.9835} \approx 178$ afs

Independent 1961 Allotment Sheet — May 1-15

$\frac{663}{15 \text{ days}} = 44.4$ af/day

$\frac{44.4}{1.9835} \approx 22.4$ afs

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NOV 25 2002

Capacity p 6

Fackett Canal 1961 allottment Sheet June 16-30

$\frac{638}{15 \text{ days}} \simeq 42.5$ af/day

$\frac{42.5}{1.9835} \simeq 21.5$ cfs

Owsley Canal 1964 allottment sheet Aug 1-15

$\frac{(2820 + 1830)}{15} \simeq 310$ af/day

$\frac{310}{1.9835} \simeq 156$ cfs

Independent 1964 allottment sheet Aug 16-31

$\frac{852}{15} \simeq 57$ af/day

$\frac{57}{1.9835} \simeq 28.6$ cfs

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NOV 25 2002

Capacity p 7

Fadrett 1964 allotment sheet Aug 16-31

$\frac{544}{15} = 36.4$ af/day

$\frac{36.4}{1.9835} \simeq 18.3$ cfs

Total Capacity Mann 1978 fr. photocopy of notebook page in files -

$\frac{12,400 \text{ af}}{31 \text{ days}} \simeq 400$ acre ft/day

$\frac{400}{1.9835} = 202$ cfs

See 1995 mtg minutes - 11 days 1995 ≈ full capacity ★

Owsley $\frac{6787}{11} \simeq 615$ af/day $\frac{615}{1.9835} \simeq 310$ cfs

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NOV 25 2002

Post-it® Fax Note 7671	Date 4-27-00	# of pages ▶ 5
To Ernie Carlsen	From Richard Hansen	
Co./Dept. EASTERN	Co. VAULT	

DET Tuthill

MEMORANDUM

OK but
(1) Be sure Shenton's comments on both xfers are fully addressed.
(2) Totalizing meters are very costly. Be sure Shenton needs before we require
(3) Give the judge the benefit of the doubt on the 91.8 cfs (NCY)

TO: Norm Young NCY

THRU: Glen Saxton, Bob Fleenor BDF

FROM: Dave Tuthill DET

DATE: May 28, 1981

RE: Approval of Application for Transfer No. 2303.

The Jackett Canal Company Application for Transfer No. 2303 was originally filed with this Department on July 7, 1978. Since that date many problems have been raised related to the application. The intent of this memo is to (1) identify the two problems that have not yet been clearly resolved, (2) propose a suggested solution for each problem, and (3) list a suggested set of conditions of approval for the transfer.

(4) Emphasize only approving the present practice existing since 1956. No change in status quo.

Problem No. 1

Water rights nos. 31-0336 and 31-0337 represent a major conflict relating to this application for transfer. At the time the Owsley Canal Company vs. Ernest Bauerle decree was signed on October 14, 1940, two of the rights shown to be represented as valid permits were nos. 17690 and 17763. These rights were identified in paragraph V of the decree as follows:

> That the defendant Independant Waters Users of Mud Lake, Inc., a corporation, is now the owner by assignment of water permit no. 17690 (31-2253) originally issued by the Department of Reclamation to Frank S. Jackett, for the diversion by means of wells of 32.50 cubic feet per second of underground water in the vicinity of Mud Lake; and is also the owner of water permit No. 17763 (31-2254), originally issued by said Department of Reclamation of Idaho to Merritt M. Owsley, for the diversion by means of wells of 50 cubic feet per second of underground water in the vicinity of Mud Lake.

Decreed right nos. 31-0336 and 31-0337 were assigned to the aforementioned water rights, respectively.

The two rights were also mentioned in part (d) of paragraph XII of the decree as follows:

> For all or any of the wells constructed or to be constructed under water permits nos. 17690 and 17763 (both belonging to Independent Water Users of Mud Lake, Inc.,), an amount not exceeding in the aggregate the equivalent of 91.8 cubic feet per second, flowing continuously during the irrigation season from May 1st to November 1st of each year.

The descriptions of the two water rights in the decree contain two major discrepancies. First, at the time the decree was signed on October 14, 1940, permit no. 17690 had already been licensed for nearly six months. The license was issued on April 23, 1940 for 28.0 cfs on 1328 acres.

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TO: Norm Young
THRU: Glen Saxton, Bob Fleenor
DATE: May 28, 1981
PAGE: 2

Therefore, the decree was incorrect in describing water right no. 17690 as a permit for 32.5 cfs.

The second major discrepancy was that the maximum total rate of flow for the two rights was "limited" to 91.8 in part (d) of paragraph XII of the decree. This quantity was obviously in error considering that the two permits were initially described within the decree as 32.5 cfs and 50.0 cfs, for a total of 82.5 cfs. The clear intent of paragraph XII within the context of the decree was to limit the season of diversion to May 1st through November 1st. No expansion or enlargement of the two permit rights was indicated in any other location within the decree so the total of 91.8 cfs must be considered to be in error, eventhough it is the contention of Jackett Canal Company that the total of 91.8 cfs be used as a measure of the permit rights.

To further add to the confusion of the extent of the two water rights, permit no. 17763 was cancelled on April 25, 1974 after all mandatory notification procedures were completed by the Department. As stated in a memo from Phil Rassier dated August 28, 1979, the validity of the right represented by decree no. 31-0337 was therefore in question. However, a letter from a Department representative dated June 4, 1974, indicated that "the right to the use of water from the wells proposed by the permit was confirmed by the decree". Thus for many years we have supported the contention that decreed right 31-0337 is valid. Per a draft memo from Phil Rassier dated May 6, 1980, this should have a significant bearing on our current interpretation of validity.

As a solution to the described situation, we can consider that (1) the figure of 91.8 cfs is totally unsubstantiated and was an error in the decree, (2) at the time the decree was signed, the water right represented by decree no. 31-0336 was already licensed for 28.0 cfs, and (3) we are committed to interpreting 31-0337 as a valid decreed right. Therefore, we should recognize the following rates of flow for purposes of this transfer:

31-0336	28.0 cfs
31-0337	50.0 cfs
	78.0 cfs

This interpretation has an effect on the other permits identified in the Owsley Canal Company vs. Ernest Bauerle, et.al. decree. To be consistent, the other permits should be field examined by regional office personnel at the earliest opportunity to determine their current validity. A memo should be attached to decree which identifies the extent to which water rights described by the permits are still being utilized. To the extent they are currently utilized, the permit rights should be considered to be decreed.

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TO: Norm Young
THRU: Glen Saxton, Bob Fleenor
DATE: May 28, 1981
PAGE: 3

Problem No. 2
The places of use of the various water rights represent the other major conflict of this transfer application, As shown in Table 1, the total acreage shown on the water rights originally summed 3965. As indicated in Kent Foster's letter dated November 3, 1978, only about 3300 unique acres are included in that total.

The original place of use described in the transfer application for 31-0336 is the place of use shown on license no. 31-2253; 1328 acres within T. 7 N., R. 35 E. and T. 6 N., R. 35 E. The original place of use described in the transfer application for 31-0337 is the place of use shown on permit no. 31-2254; 2619.1 acres within T. 7 N., R. 33-34 E. and T. 6 N., R. 33-35 E. Thus, the sum of acreage under the two water rights is 3947.1 acres. This application for transfer purports to change the place of use of 1/3 of each right (1316 acres total) to all acres served by Jackett Canal Company.

The lands within Jackett Canal Company currently total 3107.23 acres. If the water rights to be transferred were all from the same source there would be no problem with combining all the lands under all the rights. However, in this situation 20% of the rights are from surface water and the remainder are from groundwater. Therefore, if the transfer is approved it would authorize the surface water to be applied to 5 times as many acres as prior to the transfer. This is a problem cited by Ron Carlson in his letter dated October 30, 1978. In spite of the problem, the Director agreed combine the rights in a conference with the applicant's attorney on November 10, 1978. It appears that in light of the other factors associated with this transfer the Director opted to consider this situation to be acceptable. Thus, the solution regarding place of use is to accept the Jackett Canal Company land list as the place of use for the combination of rights being transferred.

Another concern regarding place of use has been the effect this transfer may have on the remaining 2/3 portion of 31-0336 and 31-0337 in the name of Independent Water Users of Mud Lake, Inc. This concern is alleviated by Application for Transfer No. 2461 which proposes to clarify the place of use on the remaining 2/3 portions. This transfer application will be reviewed separately but is mentioned here as an indication that future possible disputes between Independant and Jackett will be reduced via these transfers.

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TABLE NO. 1

WATER RIGHTS OF JACKETT CANAL COMPANY

WATER RIGHT NO.	CFS	ACRES	DATE OF PRIORITY	SOURCE
31-0134	3.5	142	03/20/1911	Camas Creek
31-0135	2.5	320	06/10/1912	Mud Lake
31-0143	1.0	242	03/29/1911	Camas Creek
31-0144	1.0	same as above	09/21/1912	Camas Creek
31-0190	5.9	320	10/14/1913	Camas Creek
31-2289	3.2	160	01/13/1949	Groundwater
31-2290	3.6	240	02/14/1949	Groundwater
31-2297	6.0	340	12/29/1949	Groundwater
31-2310	5.8	290	09/24/1952	Groundwater
31-2317-A	8.08	404	02/28/1953	Groundwater
31-2317-B	1.90	95	10/27/1956	Groundwater
31-2321	1.92	96	04/25/1953	Groundwater
31-0336	9.33*	443*	04/27/1932	Groundwater
31-0337	16.67***	873**	12/15/1932	Groundwater
	70.4	3965		
31-0192	3.0		9/8/1917	Mud Lake *

(Some overlapping so only 3300 acres are unique)

* This right is claimed by Jackett Canal Company and delivered to its shareholders. J.J.

* 1/3 of 28 cfs
** 1/3 of 1328 acres
*** 1/3 of 50 cfs
**** 1/3 of 2619 acres

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SUGGESTED CONDITIONS OF APPROVAL

1. Any future transfer of any of these rights will cause the remaining rights to revert back to the original acreage.*

2. Diversion of water authorized by this transfer shall not exceed 9321 acre feet per anum.

3. Totalizing measuring devices of a type approved by this Department must be permanently installed and maintained at the point of injection into Camas Creek in the NW¼SE¼ Sec. 34 T. 7 N., R. 35 E. B.M., and at the points of diversion/rediversion in Lot 4 (NW¼NW¼) Sec.3, T. 6 N., R. 35 E. B.M., and SW¼SW¼ Sec. 33, T. 7 N., R. 35 E., B.M.

4. Use of water under this transfer is subject to control by the watermaster of Water District No. 31, Mud Lake and tributaries.

Modified Per Norm Young's comments

MICROFILMED

* This condition came from the November 10, 1978 meeting between Allred, Carlson and Foster.

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DISCUSSION OF
MUD LAKE STORAGE
AND
ALLOTTMENT SYSTEM

1. Necessary process, used annually.

2. Unique process.

3. Guidance Provided by:

   Suave v. Abbot, 1930
   Owsley Canal v. Bauerly, 1940
   Early Pumping Agreement, 1982[1]
   IDWR Administrative Direction

4. Do we need general provisions?

5. Process/Timetable?

6. Camas Creek estimates for initial allotment do not follow decreed method.

7. Over-estimate = large potential for injury.

8. Under-estimate = very low potential for injury.

9. Watermaster estimates far better than decreed method.

10. Comparison of possible decision rules.

[1] Practice dates to 1961 or earlier

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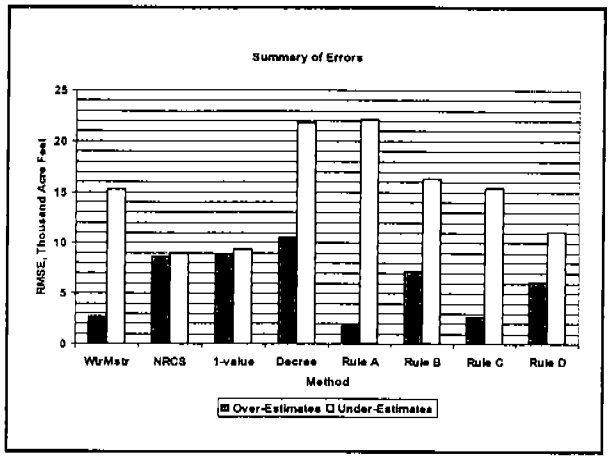

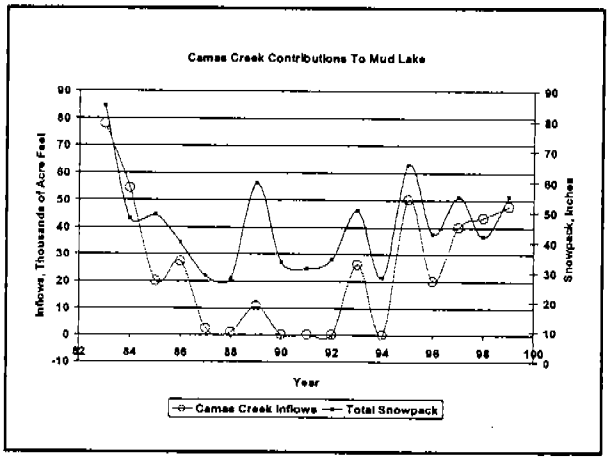

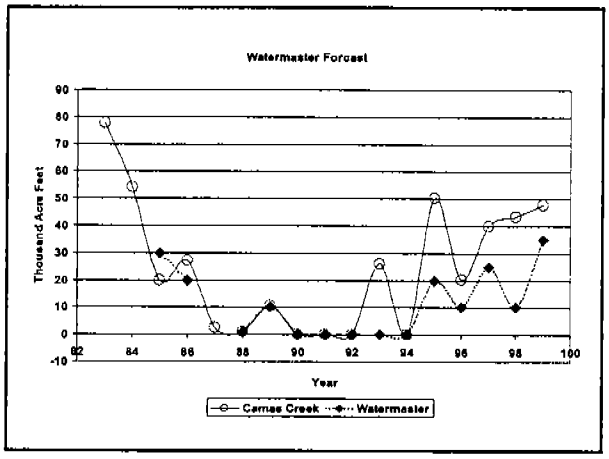

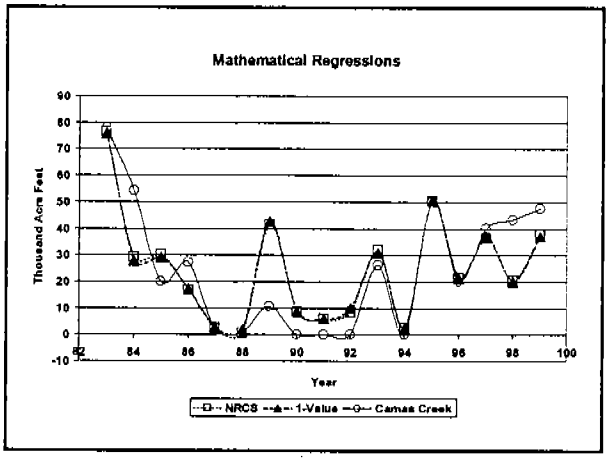

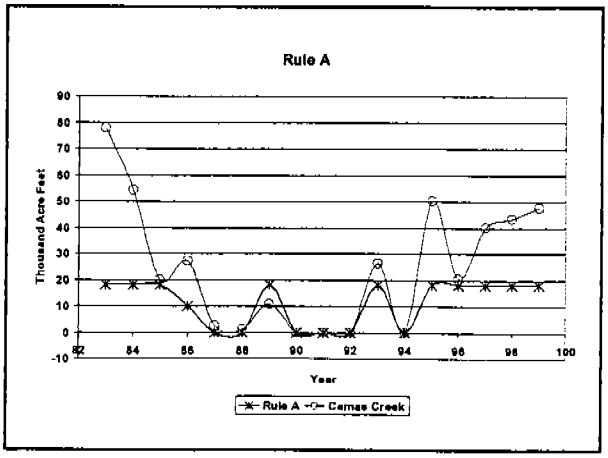

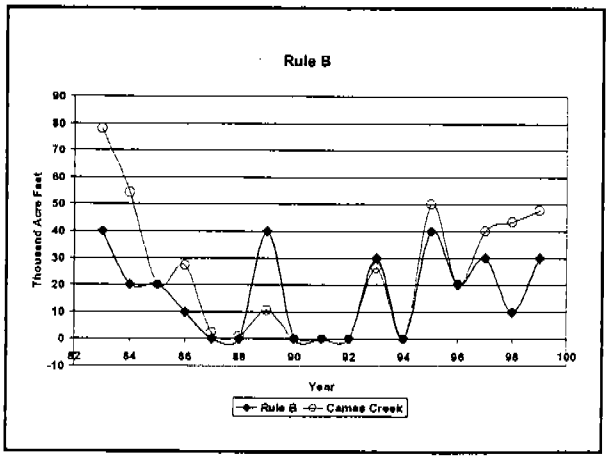

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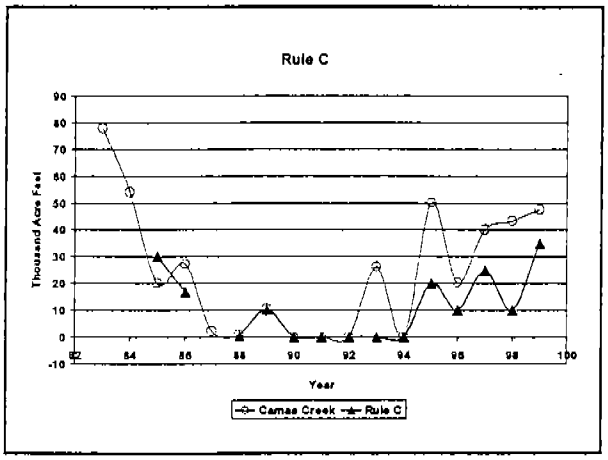

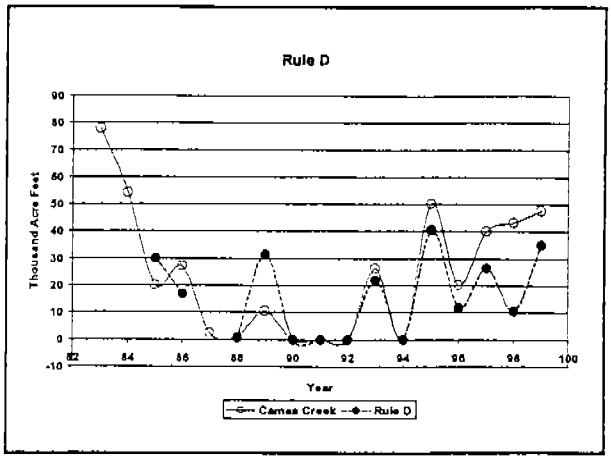

Forecasts May 1, 2000

Watermaster	10,000 - 15,000 per phone call 4/27/00
NRCS	16,735
1-Value	16,907
Rule A	10,000
Rule B	10,000
Rule C	Zero to 16,907 at Watermaster's Discretion
Rule D	6,907 to 16,907 at Watermaster's Discretion

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Snotell Computations 4/27/00 B Conton

Camp Creek	4/1/00	9.0	inches w.c
Crab Creek		13.4	
Lakeview		8.1	
Kilgore		9.0	
		$\Sigma = 39.5$	

I value: $-33.9499 + 1.287539 \times 39.5 \simeq 16,907$

NRCS: $-37.245 + 0.878 \times 13.4 + 1.395 \times 8.1$
$+ 1.701 \times 9.0 + 1.734 \times 9.0 \simeq 16,735$

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AGENDA

Basin 31 Action Meeting
May 1-2, 2000

Monday, May 1, (1:00 p.m. – 5:00 p.m.) Discussion Topics
(Dave Tuthill will arrive late)

- General Overview of the Basin Characteristics -Ernie
- Monteview Canal Company -Dave
- Diversion Volumes (Bauerle Decree) -Ernie
- Blaine Larsen Rights -Open discussion of issues effecting recommendations.
  POU discrepancy ie. 31-07631 -Allen

Tuesday, May 2, (8:00 a.m. to 5:00 p.m.) Discussion Topics
(Greg Shenton is invited)

- Season of Use-Ernie
- Allotment System/Mud Lake Storage -Bryce
- Jefferson Irrigation Company -Carter
- Purpose of Use/Wildlife Refuge -Craig, Ernie
- Surface Water to Ground Water Rights -Bryce

This is a proposed agenda for the Basin 31 action meeting on Monday and Tuesday of next week. If you want an item added to the list please let me know. Several staff from Boise will be here to listen and provide input on your questions and concerns. They are coming to help us so we need to be prepared. Individuals listed with the agenda items will lead the discussion for that topic and may need to prepare information/hand outs in advance. The surest way to get your questions answered is to have documentation of actual examples. Realize there may be some changes in how we develop our recommendations.

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To: Mud Lake Storage File
Fr: Bryce Contor
Date: 4/21/00

Re: Decision Rules

This is a summary of possible decision rules, to be presented at the meeting May 1 and May 2.

NRCS Regression

This is a multiple linear regression, using inches of water content at each of four SnoTell stations on April 1. The output is thousands of acre feet of forecast inflows of Camas Creek. It was done by Dan Moore of USDA Natural Resource Conservation Service.

Inflow = -37.245 + 0.878 * Crab Creek + 1.395 * Lakeview Ridge
+ 1.701 * Camp Creek + 1.734 * Kilgore

The R^2 value is 0.72.

1-Value Regression:

This is a single linear regression, using the sum of inches of water content at the four sites on April 1. The output is thousands of acre feet of forecast inflows of Camas Creek:

Inflow = -33.9499 + 1.287539 * Snowpack Sum.

The r^2 value is 0.69. Note that having fewer variables will decrease the R^2 even when predictive value is not impaired, so this is nearly as good a forecast method as the NRCS regression. Note also that over the period of record, this regression and the NRCS regression produced almost identical results. For this reason, the rules below rely on this simpler regression formula.

Rule A:

1-Value Regression	Forecast
Less than 15,000	zero
15,000 - 17,999	10,000
Greater than 18,000	18,000

Copies to:
Ernie
Candia
Vicky
Guy Thurston

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Rule B:

1-Value Regression	Forecast
Less than 10,000	zero
10,000 - 20,000	10,000
20,001 - 30,000	20,000
30,001 - 40,000	30,000
Greater than 40,000	40,000

Rule C:

In operation, the rule would be "The watermaster may estimate seasonal inflows of Camas Creek, not to exceed the forecast of the 1-value regression."

For testing purposes, the value used was the lesser of the watermaster's prediction or the 1-value regression. Over the period of record, the results of Rule C are nearly identical to the watermaster's forecasts.

Rule D:

In operation, the rule would be "The watermaster shall estimate seasonal inflows of Camas Creek. The estimate shall not exceed the 1-value forecast, and shall not be less than 10,000 acre feet below the 1-value forecast."

For testing purposes, the value used was the watermaster's prediction whenever it would have complied with the rule. Otherwise, the rule value was used.

Recommendation:

The greatest potential for injury occurs when Camas Creek contributions are over-estimated. When this happens, there is a possibility that a large junior user (such as Mud Lake Water Users Association) could rely on the early estimate and draft more water, early on, than could be replenished with later pumping. In such a case, seniors could be deprived of stored water that should have been allotted to them. This is a serious potential for injury.

The other potential for injury occurs when Camas Creek contributions are under-estimated. The worst injury this could cause is to induce juniors to pump early in the season, when perhaps actually they would not have needed to. However, this early pumped volume is carried as a credit in the well balance of the allotment system and can reduce the need for pumping later in the season. Therefore this is a minor potential for injury.

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Based on the above, I calculated over-estimates and under-estimates for each of the methods, and ranked them by the average over-estimate[1]. The ranking is:

Method	Over-Estimate	Under-Estimate
Rule A	1.8	22.1
Watermaster	2.7	15.3
Rule C	2.7	15.4
Rule D	6.2	11.1
Rule B	7.2	16.3
NRCS	8.7	9.0
1-Value	8.9	9.3
Decree	10.5	21.8

I reject Rule A because its slight advantage in over-estimating comes at the price of being the worst method for under-estimating.

I reject giving the watermaster a free hand because we can't assume that all future watermasters will have the skill and integrity of current and past watermasters.

I recommend Rule C because it is nearly as good as the watermaster's record, yet defines how the estimates are to be made.

If Rule C is rejected because it still gives the watermaster too much freedom, I could support Rule D. While Rule D still gives the watermaster some discretion, it limits his freedom significantly. Its slight improvement over Rule C in under-estimating comes at the price of significantly worse over-estimating.

I reject the other methods because their errors in over-estimation are higher, without significant offsetting advantages.

[1] Root mean square method. This method weights a single large error more heavily than several small errors.

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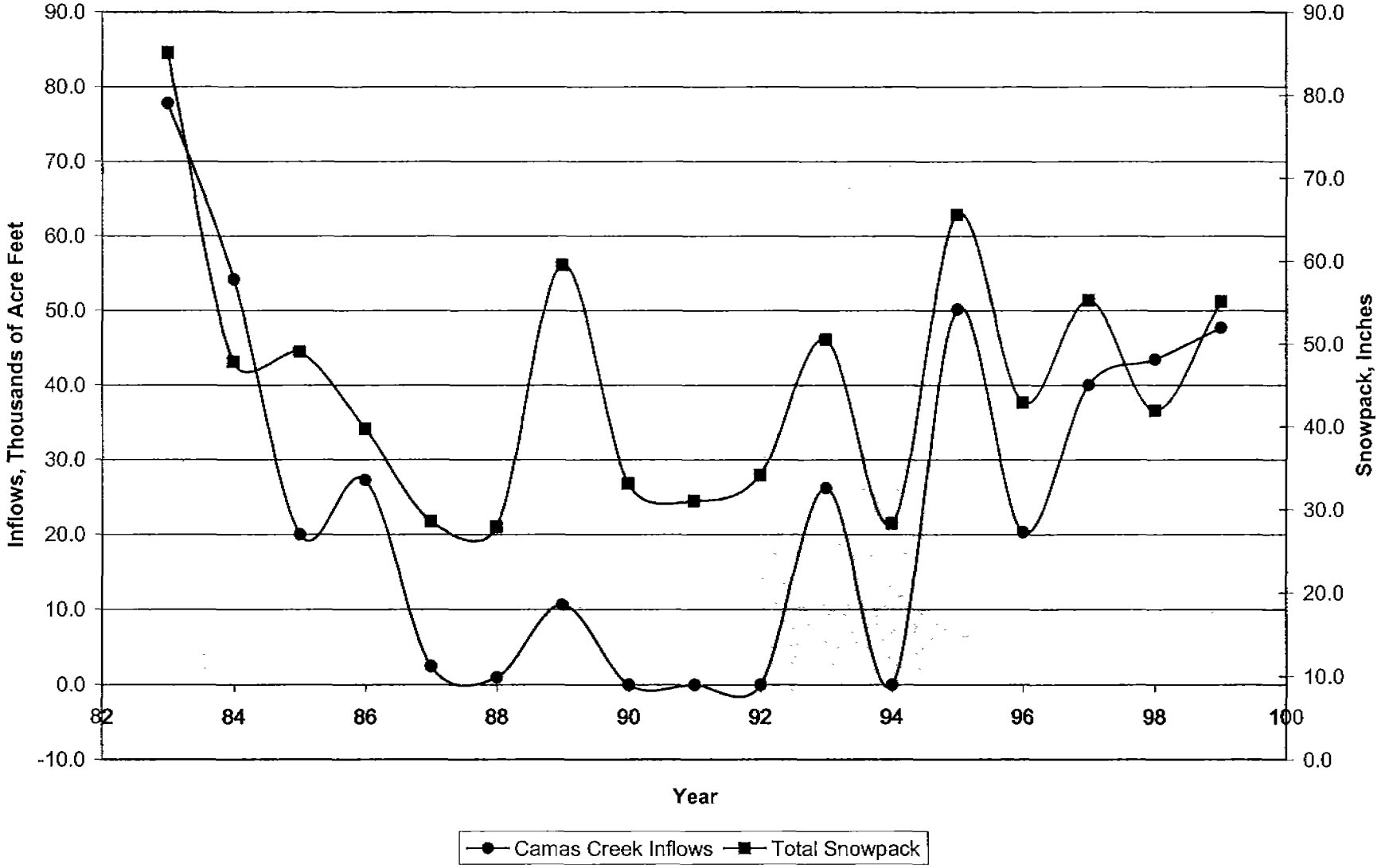
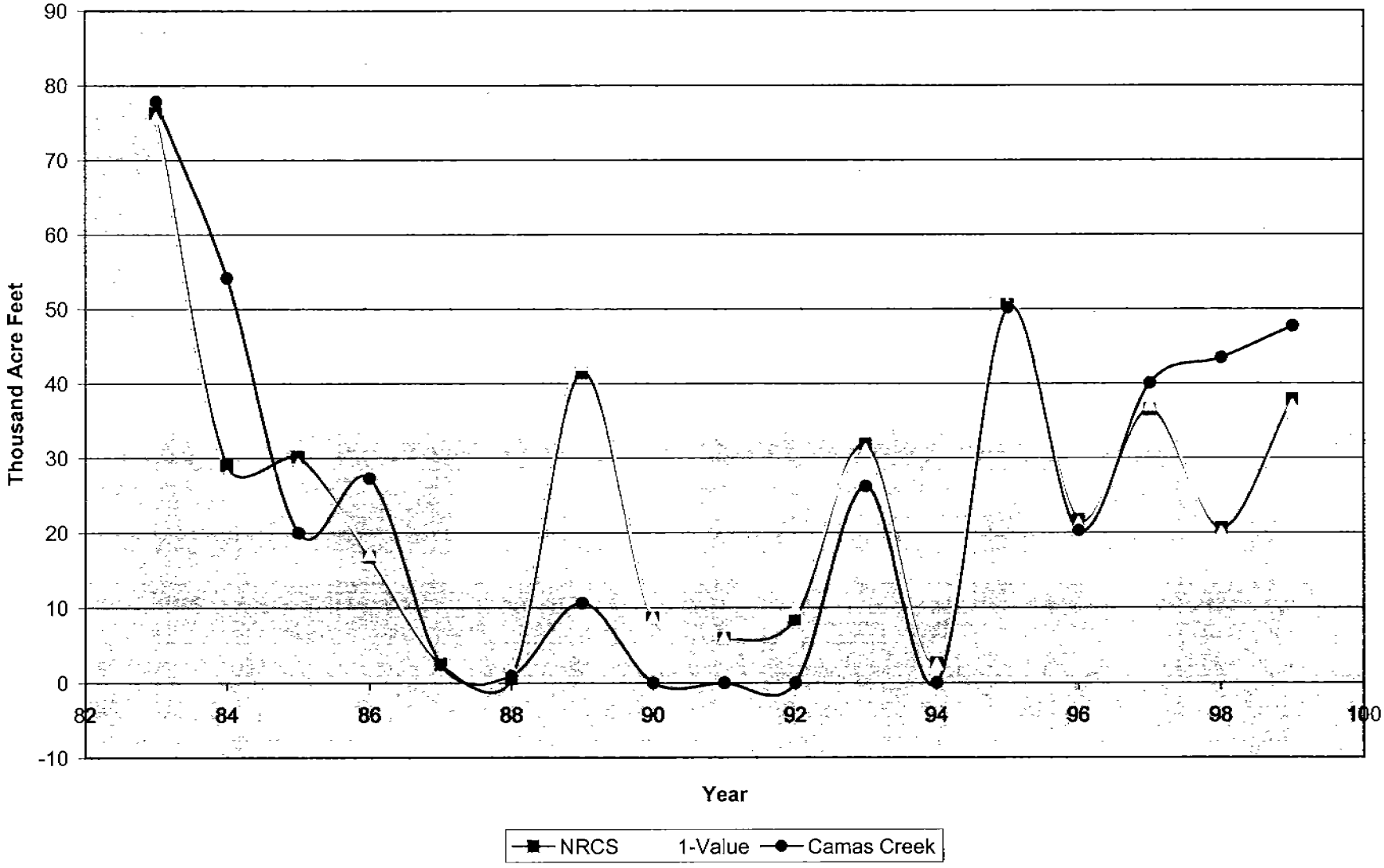
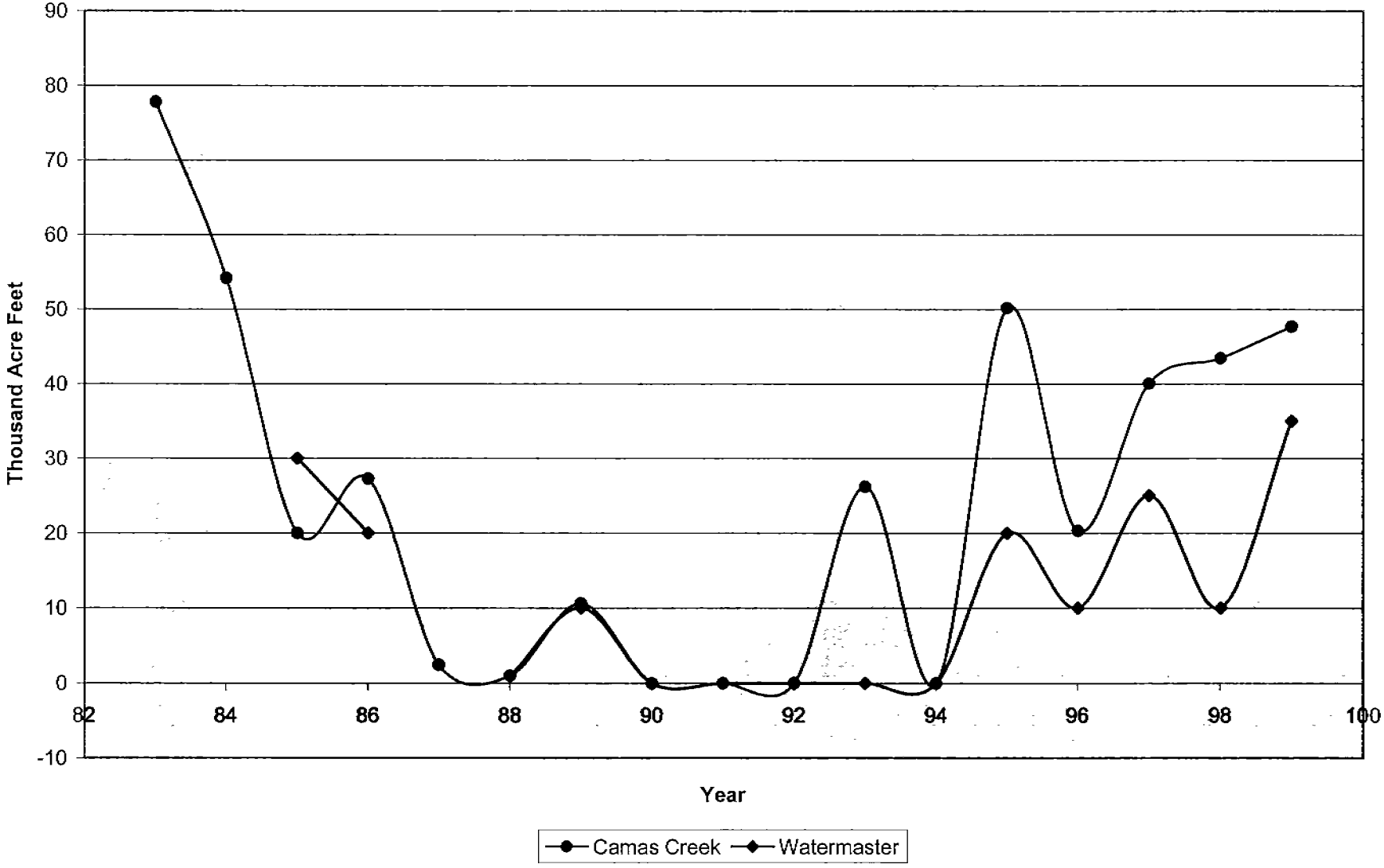
Camas Creek Contributions To Mud Lake



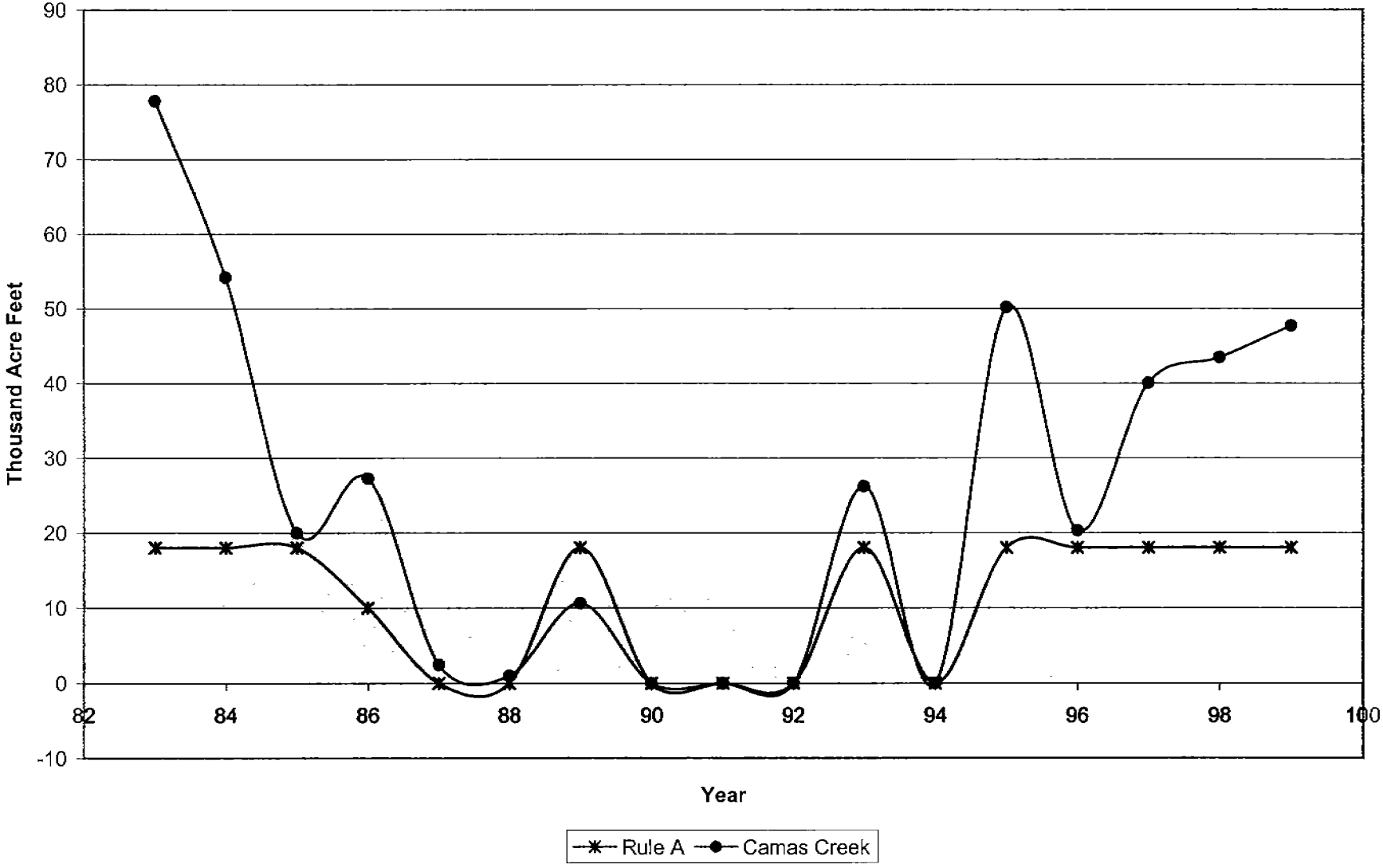
Forcasts, Camas Contributions

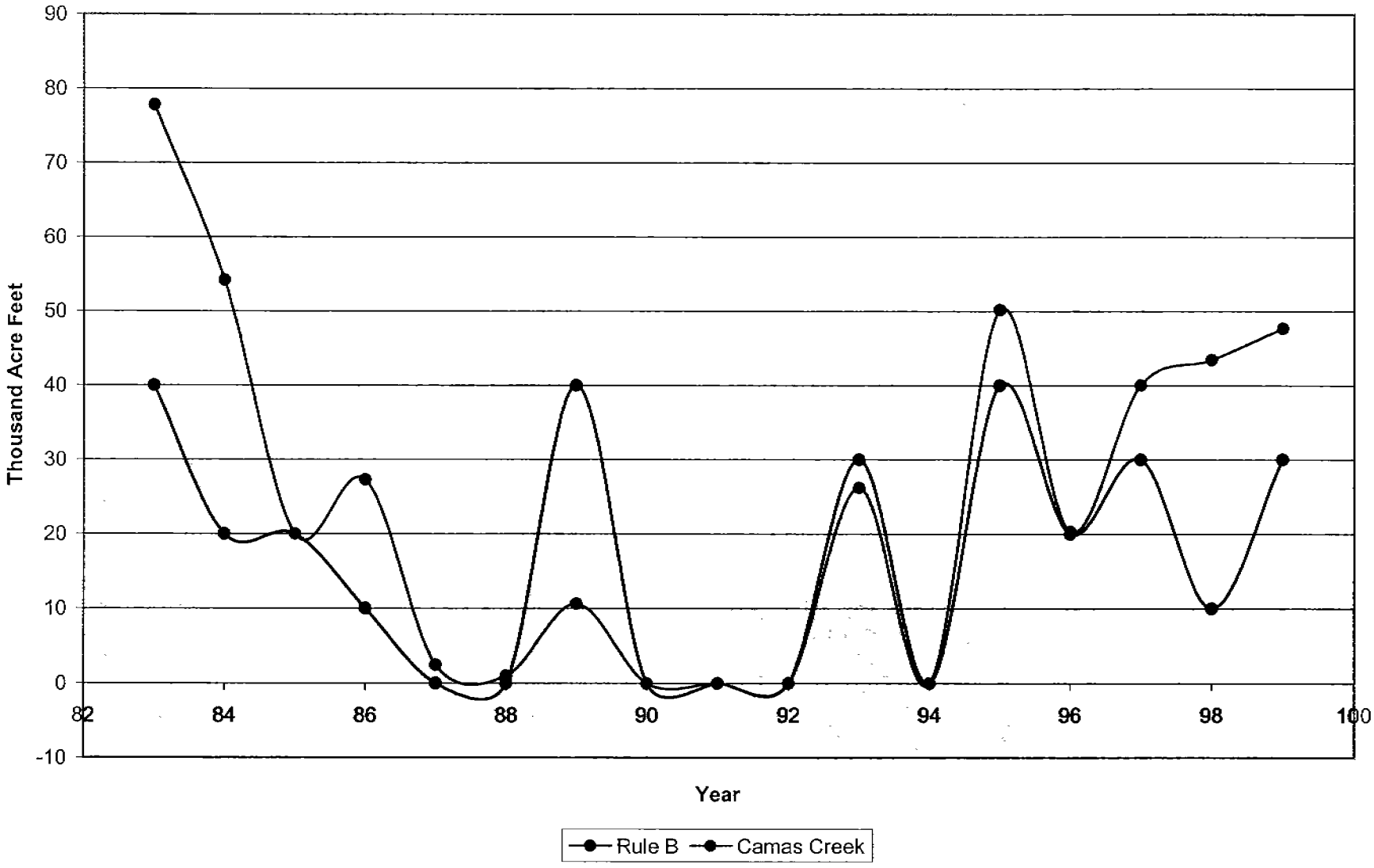


Forcasts, Camas Contributions

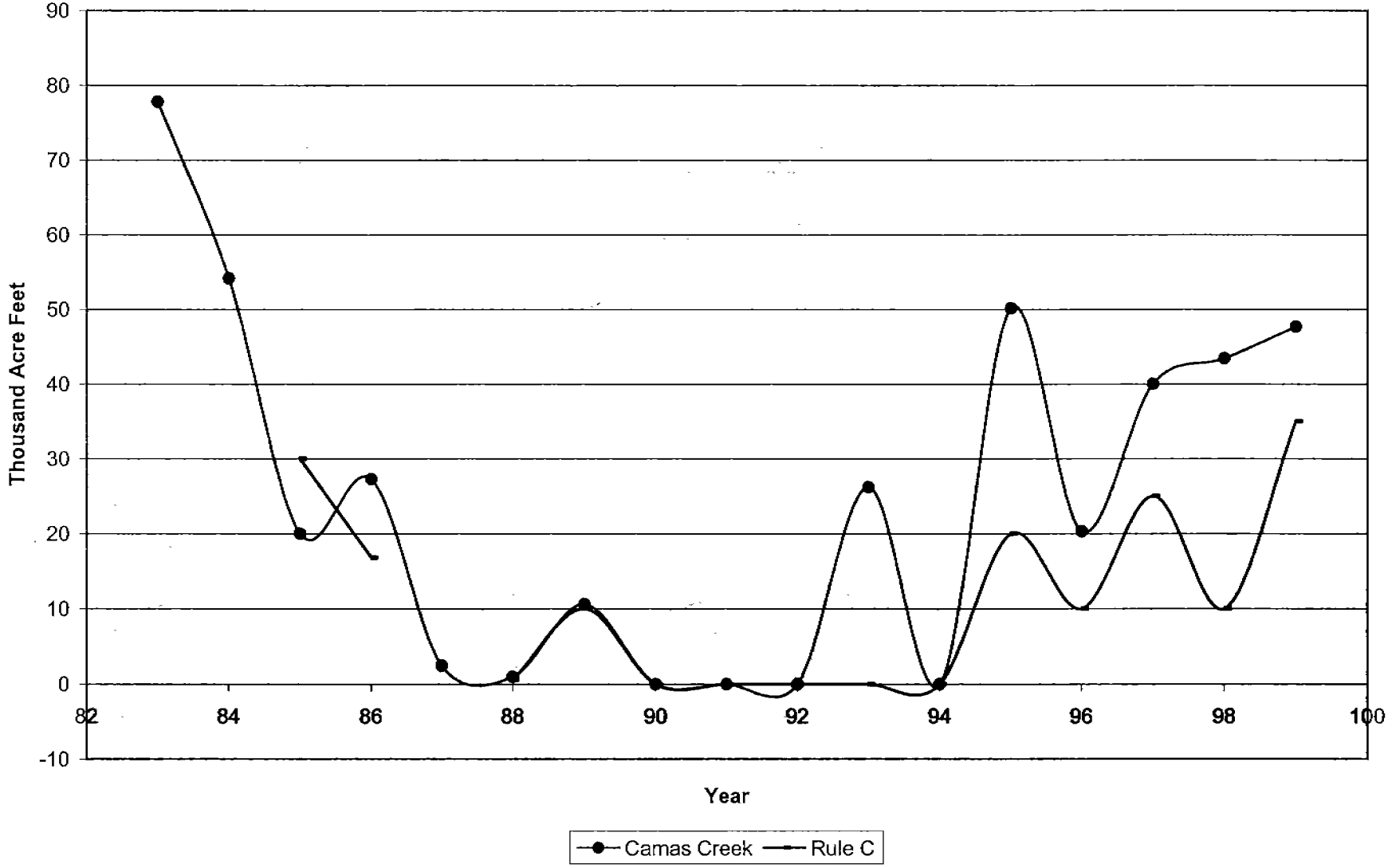


Forcasts, Camas Contributions

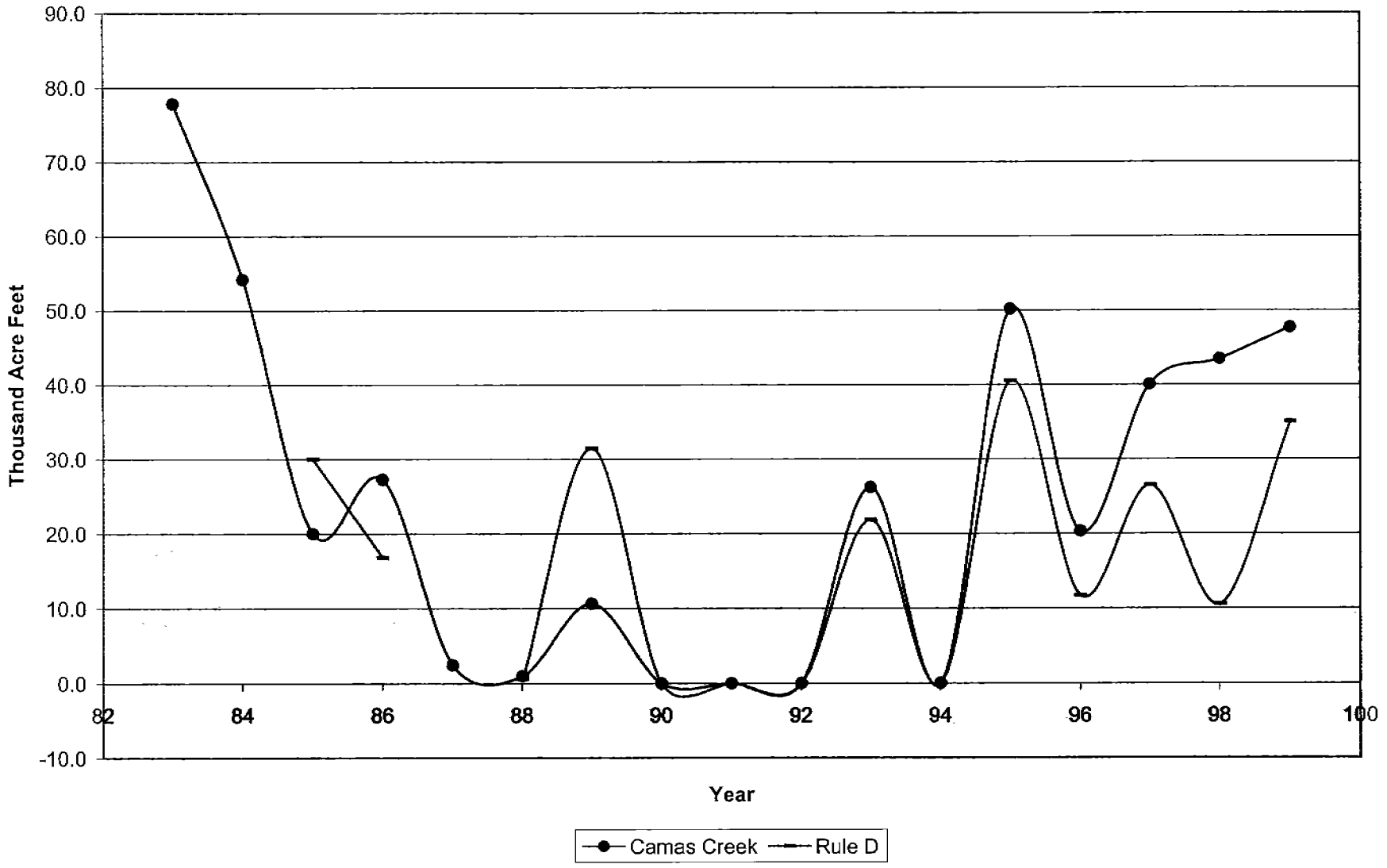


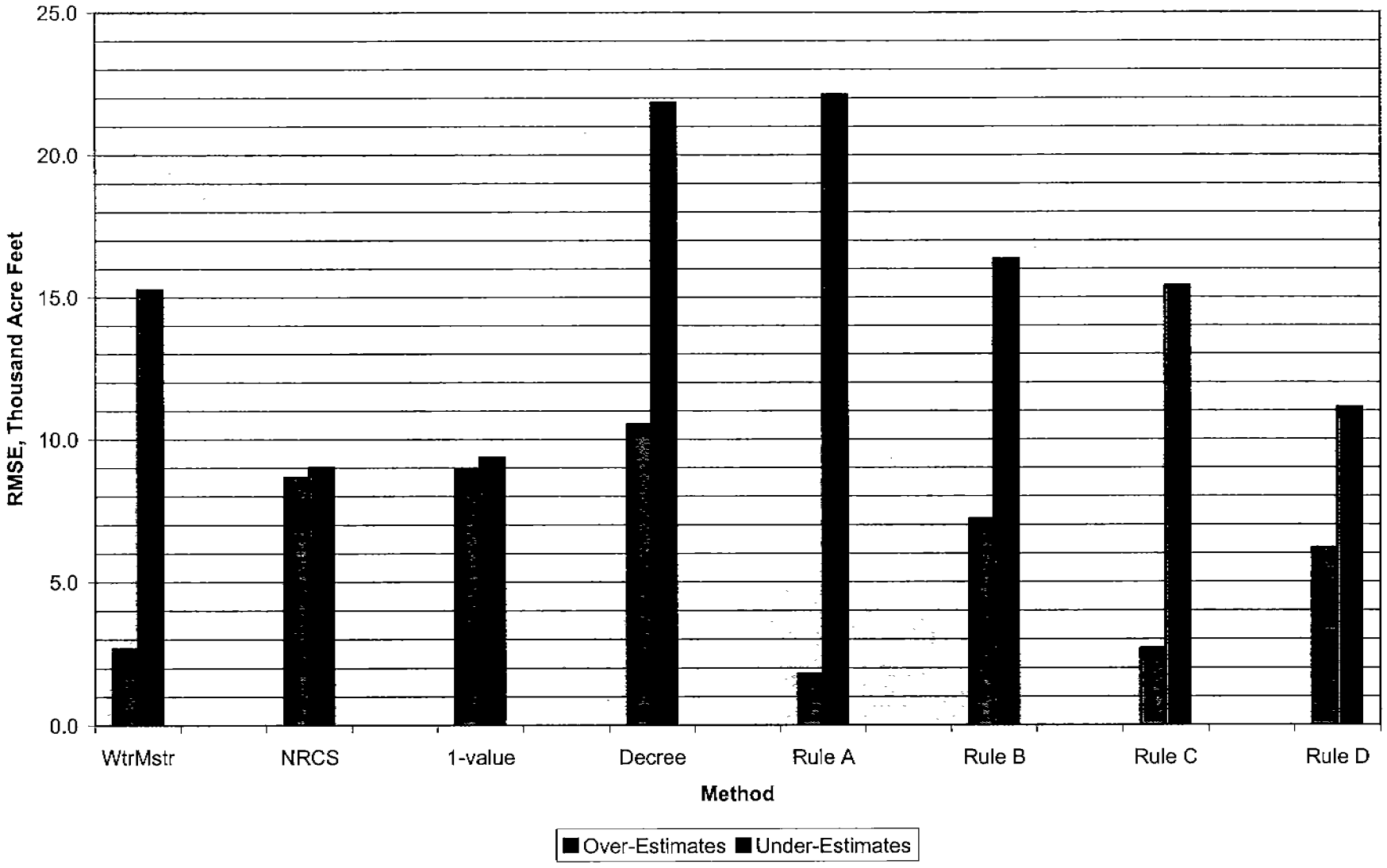

Forcasts, Camas Contributions
Thousand Acre Feet
90
80
70
60
50
40
30
20
10
0
-10
82
84
86
88
90
92
94
96
98
100
Year
Rule B
Camas Creek

Forcasts, Camas Contributions



Forcasts, Camas Contributions




Summary of Errors
RMSE, Thousand Acre Feet
25.0
20.0
15.0
10.0
5.0
0.0
WtrMstr
NRCS
1-value
Decree
Rule A
Rule B
Rule C
Rule D
Method
Over-Estimates
Under-Estimates

Contor, Bryce
From: Scholer, Burke
Sent: Monday, April 24, 2000 12:28 PM
To: Contor, Bryce
Subject: RE: Root Mean Sum

Bryce,,,,,

When you say "Error" I presume that is the same as "Difference" when we check the flow meters. Yes, we square the "Difference" for each of the measurements then sum the Squares then take the square root of the **average** of the squares. This is the Root Mean Squared method
Burke

-----Original Message-----
From: Contor, Bryce
Sent: Monday, April 24, 2000 10:56 AM
To: Scholer, Burke
Subject: Root Mean Sum

Do I remember this right:

Root Mean Sum Error is:

a) Square each error.
b) Sum the squares.
c) Divide the sum by n.(Average)
d) Take the square root of the quotient.

Thanks, Bryce YOU GOT IT....

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MUD LAKE ALLOTTMENTS
CAMAS CREEK FLOWS

YEAR	ESTIMATED CAMAS FLOW	ACTUAL CAMAS FLOW
1985		
1986	30,000 A.F	
1987	20,000 A.F	20,000 A.F
1988		27,224 A.F
1989	1,000 A.F	2,444 A.F
1990	10,000 A.F	1,000 A.F
1991	0 A.F	10,600 A.F
1992	0 A.F	0 A.F
1993	0 A.F	0 A.F
1994	0 A.F	0 A.F
1995	0 A.F	26,184 A.F
1996	20,000 A.F	0 A.F
1997	10,000 A.F	50,185 A.F
1998	25,000 A.F	20,302 A.F
1999	10,000 A.F	40,026 A.F
	35,000 A.F	35,636 A.F
		47,692 A.F

Date 4/21/00 Sig. B Coulton

****

Claim Mud Lake Storage

Doc Source Watermaster, WD 31

SCANNED

NOV 25 2002

To: Mud Lake Storage File
Fr: Bryce A. Contor
Date: 4/20/2000

Re: Phone conversation w/ Greg Shenton

1. In wet years, watermaster practice has been to allocate more than the decreed 18,000 acre foot estimate. In 1999, approximately 30,000 acre feet were allocated. See #6 below.

   Bart will research initial estimates of Camas Creek inflow used in allocations from 1983 to 1999 and FAX today or tomorrow.

2. Of the three choices - Regression, Decision Rule, or Watermaster Decision, Greg prefers the "Watermaster Decision" as it reflects historical practice.

3. Important data not considered in our prediction equation include:

   a) Early-spring diversions at Lone Tree (prior to May 1).
   b) Rain-on-snow late in April.
   c) Basin soil moisture conditions (affects extent of early diversions from Camas Creek).

   Note that it would be difficult to obtain historical records for some of these data to incorporate into the model.

4. The biggest problem to avoid is over-allocating the first allotment. If this happens, some users can over-draw their allotment, and by the time this is discovered it may be too late in the season to pump enough to replenish the overdraft. Greg believes that this has not occurred for many, many years, due to the practice of adjusting the estimate for Camas Creek inflows.
5. If the first allotment is under-allocated, there is no injury. First of all, the allotment is re-calculated every 15 days, so adjustment can be made. Secondly, the likely response of a junior right holder is to pump early. If it turns out that pumping was not needed, the balance can be carried through the season to offset later pumping.

6. The 18,000 a.f. estimate in the decree does not fill all the rights with typical initial lake conditions, so there is a need for a larger estimate, if snowpack justifies it.

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NOV 25 2002

Contor, Bryce

From: dan moore [dmoore@wcc.nrcs.usda.gov]
Sent: Wednesday, April 19, 2000 12:45 PM
To: Contor, Bryce
Cc: Abramovich, Ron
Subject: jack knife

Bryce:

The so called "jackknife" technique is employed in our regression program to make a more realistic estimate of the forecasting capability of the equations. The origin of the name apparently relates to a looping back and forth that the program is doing internally. For a normal regression standard error one examines the forecast value versus the observed over the period of record. Each year of the record is predicted by an equation that was derived including that year. In practice that will not be the case, of course. So the jackknife technique adjusts the standard error and correlation coefficient by predicting each year using regression coefficients whose derivation did not include that year.

Every time I try to explain that I look for a new and better way to say it, and nothing is very satisfactory. But that's about the best I can do.

dan

SCANNED
NOV 2 5 2002

Contor, Bryce
From: Contor, Bryce
Sent: Wednesday, April 19, 2000 11:59 AM
To: 'dan moore'; Contor, Bryce
Cc: Abramovich, Ron
Subject: RE: mud lake

Well, I've had time to look at these. They will be useful, thank you very much.

I confess I don't know what a jack knife regression is but I see it gave very similar results to the standard. The r-value looked pretty decent, does that apply to the standard regression or the jack knife?

The addition of the Montana site helped a great deal; I had used Excel to run a regression of the three sites I had, I think the r-value was closer to 0.3.

Thanks.

-----Original Message-----
From: dan moore [mailto:dmoore@wcc.nrcs.usda.gov]
Sent: Tuesday, April 18, 2000 2:56 PM
To: Contor, Bryce
Cc: Abramovich, Ron
Subject: mud lake

<< File: snow.xls >> << File: Mudlake.txt >> Bryce:

Well, I've found the snow correlates very well, and just based on that
you can do a pretty good job of forecasting. The year 1998 hurts us
though-- a good amount of inflow and not enough snow to support it. You
guys have a rainy spring two years ago?

I don't know if there's a precip site in the area that might improve the
regression. The other thing is that these snow sites have such long
periods of record, we ought to try to find a flow dataset with a period
of record that can take advantage of the older snow data.

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Anyway, attached are a few things for you to look at. An Excel file of
the snowpack inflo, and a text file showing snow correlations and a
regression run for a forecast equation. See what you think. If you do
some one to one graphs in Excel you'll get a feel for the correlations.
The four zeroes out of 17 years don't look like they hurt us.

If you have questions just email or call (503) 414-3054.

dan

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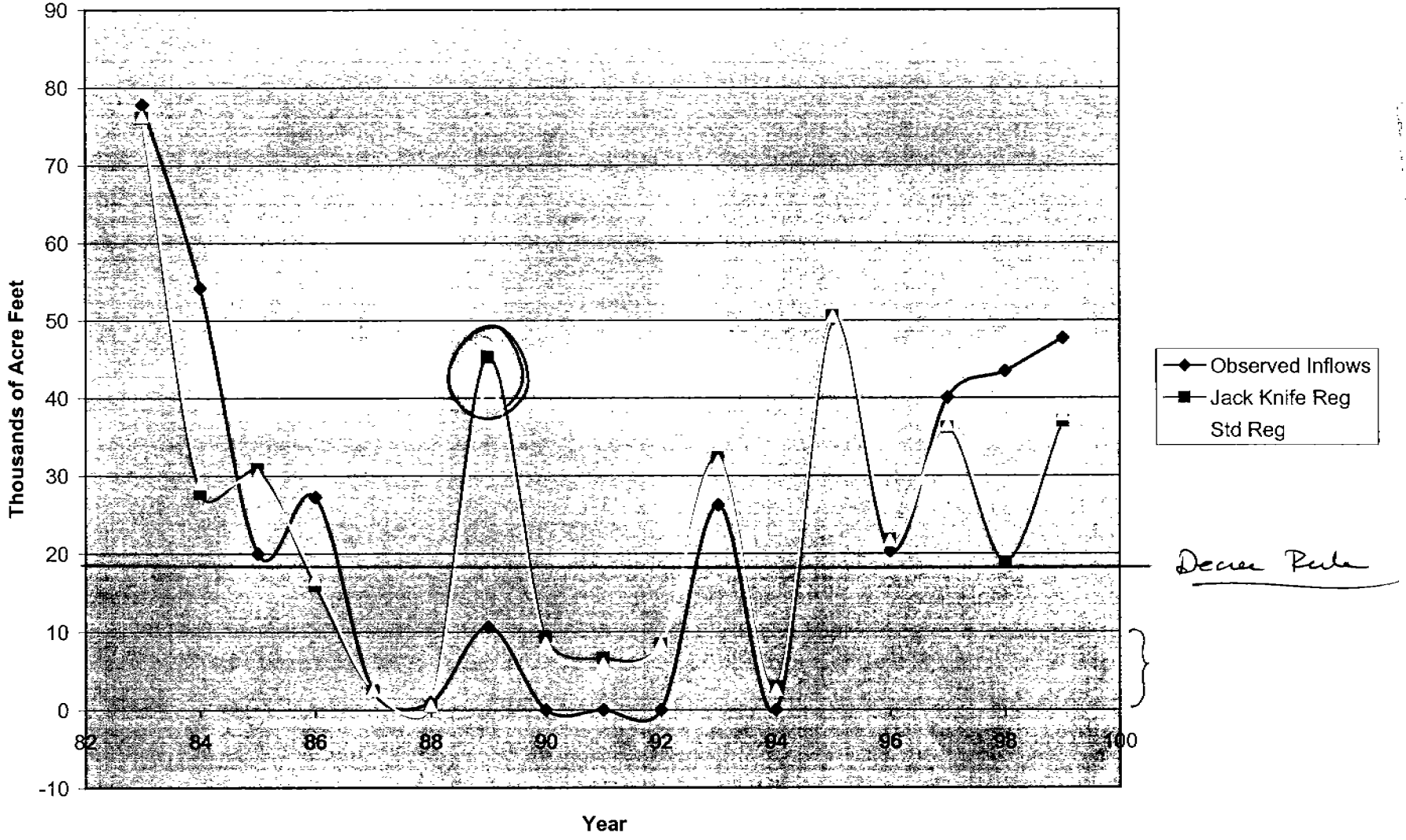
NRCS Regressions



Contor, Bryce
From: Contor, Bryce
Sent: Wednesday, April 12, 2000 2:08 PM
To: 'Ron Abramovich'; dan moore; Contor, Bryce
Subject: RE: camas creek

The "inflow to Mud Lake" is just that -- what is left of Camas Creek, after all upstream diversions. And while it's a nasty data series, it's what we're trying to forcast.

The best way to respond to your question is to describe the purpose of my inquiry. It will be kind of long, I apologize.

The 1930 decree instructs the watermaster to calculate an initial "allocation" of the waters of mud lake, on May 1 of every year. The decreed calculation is "available water = 18,000 acre feet plus contents of lake." The 18,000 acre feet represent the anticipated contributions of Camas Creek, based on the average contribution for the years 1922 through 1929. The decree directed the watermaster further to recalculate the allocation every fifteen days, based upon actual Camas Creek contributions.

What watermasters have found, historically, is that 18,000 acre feet is too high a figure to use on a dry year. If the initial allocation uses an 18,000 acre foot estimate, subsequent allocations have to be made smaller and smaller, and this puts the watermaster in an awkward social situation. Therefore, watermasters have used a lesser number when snowpack is "low" and soil moisture conditions are "dry."

In making recommendations to the Snake River Basin Adjudication Court, I want to incorporate the historical practice. But I need to quantify it, somehow. The most specific I can get from the watermaster iss, "we look at it every year" and "well, if the snowpack is 120% you can count on at least 20,000 acre feet." I need something a little firmer to take to the court.

Initially I had hoped to run a regression relating the four snotell sites to Camas Creek contributions. I got three of the sites off the web & called Ron to get data from the Montana site. He suggested you could help with the forecasting, so I sent you the last e-mail. Then I looked

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at the data for the three sites I do have, and saw what you have seen.

I agree that those data won't do us much good. We probably could go back and get the withdrawal data for the period of record, I don't have them right now. But I question the usefulness of including those data in the forcast; the watermaster has to make his decision on May 1 and those data won't be available until later.

The three main variables that drive withdrawals are initial soil moisture conditions, irrigation requirements, and available flow. We may be able to find data to give us a proxy of initial soil moisture, but if we could sit down on May 1 and predict the summer's climate, we wouldn't be working where we do!

In looking over the situation again, the real need isn't so much for a prediction equation as for a rule of operation, describing when the old decree's 18,000 acre foot estimate is adequate and when a smaller estimate should be used.

Even a three-tiered decision rule could work, say a rule that assigns estimates of 18,000 acre feet, 9,000 acre feet, or zero acre feet, according to percent of average snowpack on April 1. Or perhaps the court would buy a rule that allowed some watermaster flexibility: 0 to 9000 acre feet estimate when snowpack is less than X %, 9000 to 18000 acre feet estimate when snowpack is more.

Whatever we do, the model or rule has to be simple and straightforward, and has to use data readily available on May 1 of each year.

I don't know what your resources are or how much time you can justify spending on this project. Thank you for looking at it so far. I welcome any help you can give, but if you need to move on, please send me the Montana data, and other data you suggest we might consider.

Thanks, Bryce

-----Original Message-----
From: **Ron Abramovich [mailto:Ron.Abramovich@id.usda.gov]**
Sent: Wednesday, April 12, 2000 8:05 AM

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To: dan moore; Contor, Bryce
Subject: Re: camas creek

Dan, I'm going to forward your email on to Bryce. I will be in and out
of the office for the next couple of weeks, mostly out. But if you can
call Bryce, he can help answer your questions without going through me.
His number is (208) 525-7161. One comment, if possible and all or most
of the diversions are accountable, maybe we can try to forecast both
volumes??

Ron

dan moore wrote:
>
> Ron:
>
> I had a look at the info you sent. Interesting situation. I see that
> the USGS does have gages in the basin. But the data you sent is what
> they want to call inflow to Mud Lake, I guess. Does that info account
> for the upstream diversions? If we could add those in it would be
> better, for one thing, because we could get rid of the zero flows. Too
> many zero years screws up the regression.
>
> dan

--

Ron Abramovich
Water Supply Specialist / Climatic Data Liaison
Phone: (208)378-5741, ext. 2 Fax: (208)378-5735
http://idsnow.id.nrcs.usda.gov

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SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.507388
R Square	0.257442
Adjusted R	0.204402
Standard E	21289.44
Observatio	16

ANOVA

	df	*SS*	*MS*	*F*	*ignificance F*
Regressior	1	2.2E+09	2.2E+09	4.853749	0.044837
Residual	14	6.35E+09	4.53E+08		
Total	15	8.55E+09			

	Coefficients	*tandard Err*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*ower 95.0%*	*Jpper 95.0%*
Intercept	-7423.843	16213.72	-0.457874	0.654069	-42198.85	27351.17	-42198.85	27351.17
X Variable	4281.225	1943.253	2.203122	0.044837	113.3575	8449.093	113.3575	8449.093

X = average April 1 snowpack (inches of water content) of 3 sites, Kilgore, Camp Creek, and Crab Creek, yearly data 1983-1998

Y = annual contributions of Canas Creek to Mud Lake, from Greg Shenton's records.

Date 4/6/00 Sig. B. Coulton

****

Claim Mud Lake Storage

Doc Source Canas Creek Watermaster

Snow: NRCS website

Analysis: B. Coulton

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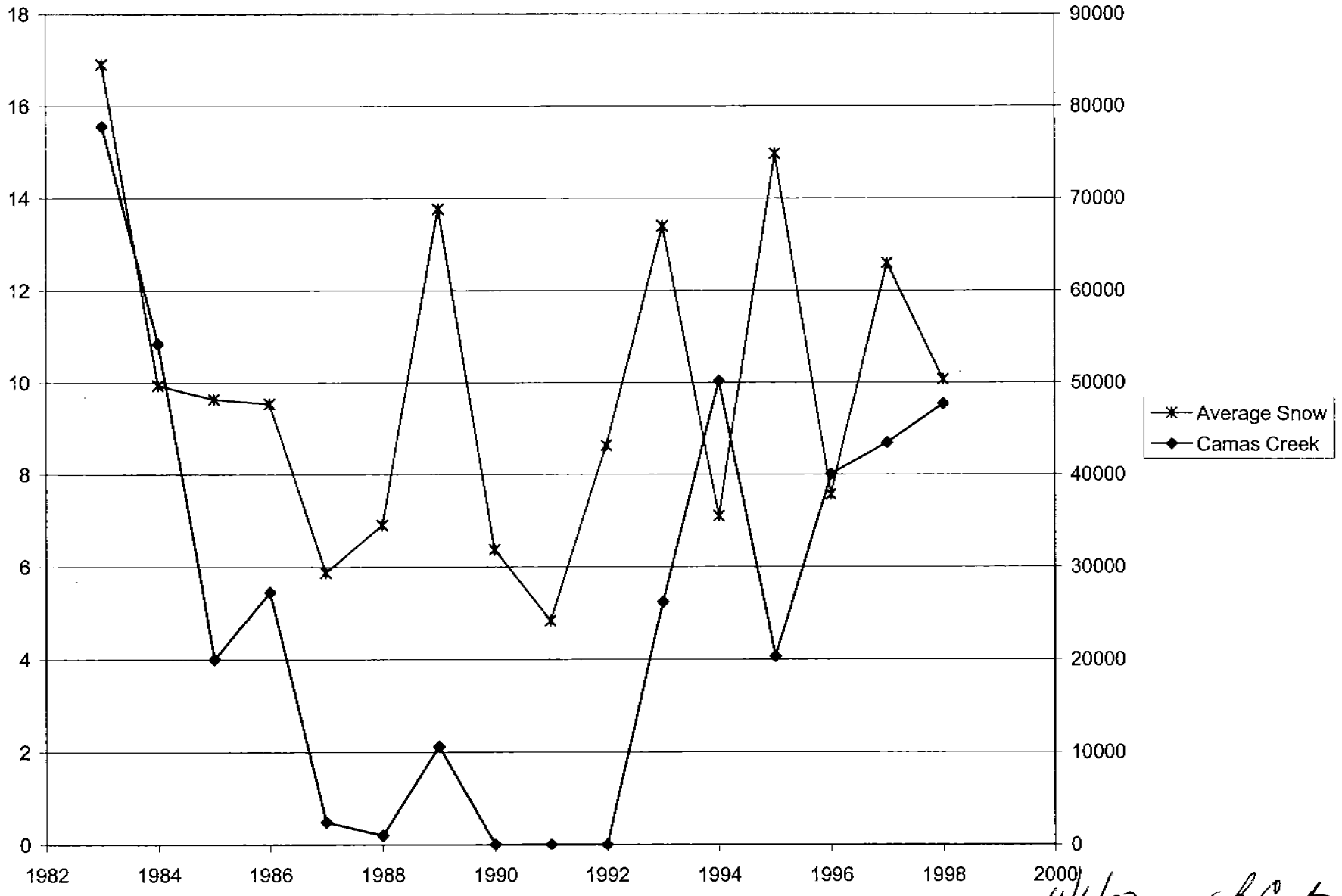

Average snow = Water Content (inches) of Camp Creek, Kilgore, & Crab Creek sites.

Date 4/6/00 Sig. B Coulter

****

Claim Mud Lake Storage

Doc Source Snow: NRCS Website

Camas Creek: Watermaster

» «

Barely decree Volume

Owsley 200 cfs × 1.983 × (4×31 + 2×30)

200 × 1.983 × 184 ≈ 73,000 af

$\frac{73,000}{17,600} \approx 4.15$ af/acre
(acre ft. agreement)

Holley 50 cfs × 1.983 × 184 ≈ 18,400 af

$\frac{18,400}{4,000} \approx 4.60$ af/acre
(acre ft. Holly v. Kulp)

Tackett 45.2 cfs × 1.983 × 184 ≈ 16,600 af

$\frac{16,600}{2,821} \approx 5.90$ af/acre
(acre ft agreement)

Ind 91.8 cfs × 1.783 × 184 ≈ 33,500 af

error - 58 cfs

$\frac{33,500}{4,803} \approx 7.0$ af/acre
(acre ft. agreement)

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Contor, Bryce
From: Contor, Bryce
Sent: Monday, April 03, 2000 12:26 PM
To: 'Ron.Abramovich@id.usda.gov'
Subject: Contribution of Camas Creek to Mud Lake

Here are the data we discussed on the phone.

To review our discussion, I am working on a recommendation to the court for water rights diverted out of Mud Lake, Idaho.

A 1930 decree directs the watermaster to calculate the available supply on May 1st of each year. The decreed method is to add an estimate 18,000 acre feet of water anticipated from Camas Creek, to the May 1st contents of the lake. The watermasters have found that in dry years, the 18,000 acre foot value is too high. Therefore, historically they have adjusted that value downward when snowpack is less than normal. This has been a somewhat subjective, "seat-of-the-pants" process. The allocation is recalculated when Camas Creek stops contributing to the lake, so there is an opportunity to correct for errors in the estimate. However, it is desirable to have the adjustments as small as possible, an adjusting "up" is easier socially than adjusting "down."

Our goal is to quantify a simple, direct method that we can recommend to the court in lieu of the flat 18,000 acre foot value in the old decree.

The input has to be data readily available to the watermaster on May 1 of every year, and the output needs to model the following historical record of Camas Creek contributions to Mud Lake, after upstream diversions.

Historically, the watermasters have relied on snow data from the Camp Creek, Kilgore, and Crab Creek Idaho sites, and the Lakeview Ridge Montana site. They have also made adjustments based on their perception of soil moisture conditions, which affect upstream diversions as well as reach gains/losses in Camas Creek. However, the more complex the model is the tougher it may be to sell to the court.

For legal purposes, the closer we can stick to the data the watermasters have historically used, the more defensible

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our method will be.

I had planned to run a regression of the April 1 moisture content at the four snow sites against the Camas Creek Contributions. I certainly appreciate your willingness to apply your expertise to this problem. Please call me at (208) 525-7161 if you have questions.

Data:

Year	Camas Creek Contribution to Mud Lake May - August (acre feet)
1983	77,778
1984	54,188
1985	20,000
1986	27,244
1987	2,444
1988	1,000
1989	10,600
1990	0
1991	0
1992	0
1993	26,184
1994	0
1995	50,185
1996	20,302
1997	40,026
1998	43,438
1999	47,692

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Station : 11E12, KILGORE

Unit = inches

year/	January			February			March			April			May			
card	date	dep	swe	date	dep	swe	date	dep	swe	date	dep	swe	date	dep	swe	dat
37-1	1/02	20	3.2	2/01	34	7.1	2/28	37	10.3	4/01	39	15.2				
38-1	1/02	15	4.1	2/02	33	7.8	3/01	37	12.0	4/01	46	16.2				
39-1				1/31	26	5.4	2/28	37	9.0	3/30	19	7.8				
40-1	1/01	9	1.8	2/01	18	4.6	3/01	30	9.0	4/01	21	8.8				
41-1	1/01	21	4.0	2/01	30	7.8	3/01	31	9.4	3/28	18	7.6				
42-1	K/27	15	3.2	1/30	34	7.6	2/27	42	10.0	3/30	33	10.4				
43-1	K/28	25	5.8	1/30	47	11.2	2/26	48	14.0	3/28	41	14.8				
44-1	K/28	11	1.4	1/29	17	3.4	2/28	30	7.4	3/28	33	10.8				
45-1	K/29	18	3.8	1/28	23	5.4	2/26	33	9.0	3/29	28	10.0				
46-1	1/02	26	5.9	1/31	35	8.3	3/01	38	11.5	4/01	33	11.7				
47-1	K/29	25	9.8	1/31	33	10.0	2/27	31	11.2	3/30	23	6.0				
48-1	K/31	21	3.4	1/30	20	4.6	2/28	25	6.8	4/01	28	8.0				
49-1	K/24	24	5.2	1/30	27	6.2	2/26	40	9.6	3/25	35	11.2				
50-1				1/28	39	10.0	2/24	33	8.2	3/29	43	15.2	4/28	16	6.6	
51-1	1/02	21	8.8	2/04	25	5.1	3/01	36	7.5	3/29	29	8.5				
52-1	1/03	29	7.8	1/30	44	12.6	2/29	54	15.6	3/31	49	17.4				
53-1	K/31	27	5.8	1/31	27	8.2	3/01	33	10.8	3/30	21	7.4				
54-1	1/01	17	2.6	2/01	18	3.9	3/01	25	6.2	4/01	28	8.6				
55-1				2/02	29	6.8	3/02	33	8.6	4/02	29	8.4				
56-1	1/02	18	3.7	2/02	30	7.7	3/02	32	8.7	4/02	23	7.6				
57-1	1/02	20	3.7	2/01	34	7.4	3/02	31	9.2	4/02	33	10.4				
58-1	1/03	21	4.4	1/31	28	6.2	2/28	27	7.6	3/31	31	10.2				
59-1				2/01	21	3.7	3/01	30	8.9	3/31	28	8.8				
60-1	1/01	14	2.2	1/28	21	5.0	2/29	28	7.5	3/29	20	6.6				
61-1	K/29	20	3.7	1/29	19	4.2	2/26	33	8.2	3/31	31	9.7				
62-1	K/29	27	6.5	1/28	35	8.6	2/28	41	13.0	3/30	46	15.8				
63-1	K/28	9	2.1	1/28	14	3.4	2/27	16	4.0	3/27	12	4.6				
64-1	K/27	17	2.6	1/28	28	5.0	2/28	28	7.1	3/27	36	11.5				
65-1	K/28	30	6.2	1/28	41	11.4	2/26	37	13.0	3/28	36	12.0				
66-1	K/28	16	2.0	1/28	25	6.0	2/26	31	8.7	3/29	24	7.2				
67-1	K/27	16	4.0	1/27	36	8.8	2/26	34	10.4	4/01	35	11.4				
68-1	K/27	25	5.2	1/31	34	8.4	2/27	34	10.8	4/05	25	9.0				
69-1	K/31	28	6.2	2/01	53	15.0	2/27	66	20.0	3/29	53	20.4	5/01	25	15.4	
70-1	K/28	19	3.4	1/28	36	9.8	2/24	34	10.8	3/29	42	14.5				
71-1	K/28	43	10.2	1/28	44	15.0	2/26	48	16.4	3/29	51	19.8				
72-1	K/30	37	7.6	1/31	37	11.4	2/28	34	12.0	3/30	25	9.6				
73-1	K/29	18	3.4	1/30	30	7.6	2/27	36	9.6	3/29	34	10.0				
74-1	1/02	25	5.6	2/01	29	9.0	2/27	35	10.2	3/30	36	13.5				
75-1	K/31	21	4.2	1/31	38	8.0	2/27	41	12.6	3/31	44	14.6				
76-1	K/30	24	5.0	1/28	29	8.0	2/27	34	9.6	3/31	35	11.6				
77-1	1/01	0	0.0	1/27	12	2.2	2/28	14	3.2	3/30	13	3.4				
78-1	K/29	17	4.2	1/28	34	10.0	2/27	43	14.4	3/29	32	13.8				
79-1	K/28	20	3.0	1/28	28	6.8	2/26	41	10.5	3/29	35	12.4				
80-1	K/29	16	2.6	1/28	24	6.2	2/27	30	8.6	3/28	33	11.2				
81-1	K/31	17	4.0	1/28	25	5.8	2/26	27	8.8	3/30	23	7.1				
82-1	1/02	27	6.1	1/30	32	8.4	2/27	32	10.4	3/29	40	13.2				

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83-1 K/30	35	8.8	1/29	38	10.9	2/28	52	14.6	3/30	40	15.2
84-1 K/28	28	5.8	1/30	30	8.5	2/27	41	11.2	3/29	40	13.7
85-1 K/29	22	4.8	1/29	27	5.4	2/27	34	8.6	3/30	41	11.0
86-1 K/28	21	6.0	1/30	29	7.8	2/27	35	11.8	3/29	26	10.4
87-1 K/29	9	1.5	1/30	21	3.7	3/01	27	6.2	3/28	21	7.4
88-1 K/31	18	2.4	2/01	29	5.9	2/29	26	6.8	4/01	20	7.2
89-1 K/27	30	6.1	1/30	37	10.5	2/26	42	13.1	4/01	40	14.1
90-1 K/30	7	1.4	1/29	18	3.6	2/28	26	6.8	3/29	25	8.8
91-1 K/29	24	2.4	1/29	21	4.2	2/27	19	5.2	3/29	27	7.1
92-1 K/28	18	4.0	1/26	22	4.6	2/29	33	7.3	3/28	15	4.9
93-1 K/26	23	6.0	1/30	37	10.6	2/27	45	12.8	3/28	29	11.4
94-1 K/29	13	2.2	1/29	19	4.6	2/26	31	7.6	3/30	20	7.8
95-1 K/29	31	8.6	1/28	45	14.2	2/25	40	14.4	3/29	36	14.0
96-1 K/30	11	2.0	1/29	29	5.4	2/28	26	6.8	3/30	32	9.4
97-1 K/30	29	8.2	1/31	38	10.8	2/27	40	12.2	3/29	32	11.8
98-1 K/31	15	2.6	1/31	28	7.0	2/28	35	9.6	3/28	29	9.2
39-2 1/11	21	4.2									

FIRST OF MONTH MEASUREMENTS

average depth and swe :											
	21	4.5	30	7.5	35	9.9	31	10.8	20	11.0
years	58	58	62	62	62	62	62	62	2	2
1961-1990 average :										
	21	4.5	30	7.8	35	10.4	33	11.5	25	15.4
years	30	30	30	30	30	30	30	30	1	1

MID-MONTH MEASUREMENTS

average depth and swe :										
	21	4.2								
years	1	1	0	0	0	0	0	0	0	0
1961-1990 average :										
years	0	0	0	0	0	0	0	0	0	0

NOTES: O/dd - October, J/dd - November, K/dd - December, E/ST - estimate
Card type 1 = First of Month, 2 = Mid-Month, and 3 = Special Measurement

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/cdbs/id/snow16

Station : 11E37S, CRAB CREEK SNOTEL

Unit = inches

year/	January			February			March			April			May			
card	date	dep	swe	date	dep	swe	date	dep	swe	date	dep	swe	date	dep	swe	dat
36-1	E/ST		3.8	E/ST		7.7	E/ST		16.9	E/ST		10.0				
37-1	E/ST		5.5	E/ST		9.5	E/ST		13.2	E/ST		18.5				
38-1	E/ST		5.2	E/ST		7.7	E/ST		18.1	E/ST		27.7				
39-1	E/ST		4.2	E/ST		6.5	E/ST		10.8	E/ST		11.3				
40-1	E/ST		1.8	E/ST		4.9	E/ST		8.9	E/ST		8.8				
41-1	E/ST		6.1	E/ST		9.2	E/ST		12.3	E/ST		13.6				
42-1	E/ST		7.7	E/ST		10.4	E/ST		13.8	E/ST		15.7				
43-1	E/ST		7.4	E/ST		16.0	E/ST		19.7	E/ST		19.1				
44-1				E/ST		3.4	E/ST		7.7	E/ST		15.3				
45-1	E/ST		4.9	E/ST		6.5	E/ST		13.5	E/ST		16.0				
46-1	E/ST		8.3	E/ST		11.4	E/ST		15.1	E/ST		18.8				
47-1	E/ST		12.6	E/ST		14.7	E/ST		16.0	E/ST		13.2				
48-1	E/ST		3.1	E/ST		4.9	E/ST		6.8	E/ST		14.1				
49-1	E/ST		6.5	E/ST		8.6	E/ST		17.5	E/ST		19.7				
50-1	E/ST		8.3	E/ST		16.0	E/ST		20.3	E/ST		24.4				
51-1	E/ST		4.9	E/ST		7.7	E/ST		9.8	E/ST		15.0				
52-1	E/ST		13.5	E/ST		25.2	E/ST		32.6	E/ST		39.7				
53-1	E/ST		11.1	E/ST		16.0	E/ST		19.7	E/ST		20.7				
54-1	E/ST		4.9	E/ST		10.8	E/ST		14.7	E/ST		17.8				
55-1	E/ST		4.3	E/ST		6.5	E/ST		8.9	E/ST		14.4				
56-1	E/ST		8.3	E/ST		13.5	E/ST		15.1	E/ST		16.9				
57-1	E/ST		6.8	E/ST		11.1	E/ST		13.2	E/ST		17.5				
58-1	E/ST		6.5	E/ST		9.5	E/ST		12.3	E/ST		20.7				
59-1	E/ST		2.2	E/ST		6.8	E/ST		13.5	E/ST		15.7				
60-1	E/ST		4.6	E/ST		8.0	E/ST		10.8	E/ST		12.5				
61-1	E/ST		5.2	E/ST		6.1	E/ST		8.0	E/ST		12.2				
62-1	E/ST		9.1	E/ST		11.7	E/ST		16.3	E/ST		21.3				
63-1	E/ST		4.3	E/ST		4.9	E/ST		5.5	E/ST		6.6				
64-1	E/ST		5.2	E/ST		8.8	E/ST		10.6	E/ST		17.2				
65-1	E/ST		11.1	E/ST		22.7	E/ST		22.4	E/ST		23.6				
66-1	E/ST		6.3	E/ST		10.6	E/ST		13.5	E/ST		15.2				
67-1	E/ST		6.0	E/ST		14.9	E/ST		17.8	E/ST		23.1				
68-1	E/ST		8.3	E/ST		13.4	E/ST		15.2	E/ST		18.9				
69-1	E/ST		9.4	E/ST		25.0	E/ST		34.1	E/ST		39.2				
70-1	E/ST		5.8	E/ST		10.9	E/ST		11.1	E/ST		17.2				
71-1	E/ST		16.6	E/ST		21.5	E/ST		22.4	E/ST		30.5				
72-1	E/ST		13.8	E/ST		15.7	E/ST		16.9	E/ST		21.3				
73-1	E/ST		5.5	E/ST		10.1	E/ST		12.3	E/ST		16.3				
74-1	E/ST		8.3	E/ST		12.4	E/ST		14.0	E/ST		20.8				
75-1	E/ST		6.5	E/ST		9.2	E/ST		19.0	E/ST		24.7				
76-1	E/ST		7.7	E/ST		10.9	E/ST		12.4	E/ST		16.1				
77-1	E/ST		0.0	E/ST		4.0	E/ST		3.1	E/ST		5.7				
78-1	E/ST		3.4	E/ST		9.5	E/ST		15.4	E/ST		16.0				
79-1	E/ST		5.2	E/ST		7.1	E/ST		11.5	E/ST		15.7				
80-1	E/ST		3.7	E/ST		6.5	E/ST		9.5	E/ST		16.9				
81-1	E/ST		4.9	E/ST		8.0	E/ST		10.8	E/ST		16.0				

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82-1 1/01	6.0 2/01	10.1 3/01	12.7 4/01	19.3 E/ST	18.7 6/0
83-1 E/ST	6.0 2/01	15.8 3/01	22.1 E/ST	30.5 5/01	26.0 6/0
84-1 E/ST	5.0 2/01	9.6 3/01	11.7 4/01	15.2 5/01	16.6 6/0
85-1 1/01	6.8 2/01	7.4 3/01	12.1 4/01	15.5 5/01	10.3 6/0
86-1 1/01	5.5 2/01	7.3 3/01	11.0 4/01	13.7 5/01	12.5 6/0
87-1 1/01	1.1 2/01	3.9 3/01	6.4 4/01	8.8 5/01	0.0 6/0
88-1 1/01	4.8 2/01	8.3 3/01	8.9 4/01	9.6 5/01	1.8 6/0
89-1 1/01	12.5 2/01	15.7 3/01	17.8 4/01	23.7 5/01	15.5 6/0
90-1 1/01	1.1 2/01	4.6 3/01	7.3 4/01	9.4 5/01	0.0 6/0
91-1 1/01	2.8 2/01	4.1 3/01	4.8 4/01	8.7 5/01	9.9 6/0
92-1 1/01	5.6 2/01	6.0 3/01	10.8 4/01	11.3 5/01	0.0 6/0
93-1 1/01	7.4 2/01	13.1 3/01	16.0 4/01	16.4 5/01	19.3 6/0
94-1 1/01	2.4 2/01	3.8 3/01	7.7 4/01	8.0 5/01	2.1 6/0
95-1 1/01	11.7 2/01	17.9 3/01	19.0 4/01	23.9 5/01	21.4 6/0
96-1 1/01	4.0 2/01	7.6 3/01	9.5 4/01	12.9 5/01	13.4 6/0
97-1 1/01	11.2 2/01	15.0 3/01	16.9 4/01	19.9 5/01	18.1 6/0
98-1 1/01	2.5 2/01	6.6 3/01	11.1 4/01	12.9 5/01	11.6 6/0
90-2 1/15	2.9 2/15	6.3 3/15	9.3 4/15	6.7 5/15	0.0 6/1
91-2 1/15	3.5 2/15	4.2 3/15	7.5 4/15	8.5 5/15	8.6 6/1
92-2 1/15	5.9 2/15	8.1 3/15	10.9 4/15	7.4 5/15	0.0 6/1
93-2 1/15	10.6 2/15	13.3 3/15	16.0 4/15	18.8 5/15	14.3 6/1
94-2 1/15	3.6 2/15	4.5 3/15	7.8 4/15	9.0 5/15	0.0 6/1
95-2 1/15	16.3 2/15	18.6 3/15	21.8 4/15	22.9 5/15	21.7 6/1
96-2 1/15	4.4 2/15	8.0 3/15	11.0 4/15	12.1 5/15	7.3 6/1
97-2 1/15	13.1 2/15	15.9 3/15	18.7 4/15	20.2 5/15	10.0 6/1
98-2 1/15	4.6 2/15	9.7 3/15	12.1 4/15	15.1 5/15	6.2 6/1

FIRST OF MONTH MEASUREMENTS

average depth and swe :

		6.4		10.4		13.8		17.3		11.6
years	0	62	0	63	0	63	0	63	0	17

1961-1990 average :

		6.5		10.9		13.7		18.0		11.3
years	0	30	0	30	0	30	0	30	0	9

MID-MONTH MEASUREMENTS

average depth and swe :

		7.2		9.8		12.8		13.4		7.6
years	0	9	0	9	0	9	0	9	0	9

1961-1990 average :

		2.9		6.3		9.3		6.7		0.0
years	0	1	0	1	0	1	0	1	0	1

NOTES: O/dd - October, J/dd - November, K/dd - December, E/ST - estimate
Card type 1 = First of Month, 2 = Mid-Month, and 3 = Special Measurement

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/cdbs/id/snow16

Station : 12E03, CAMP CREEK

Unit = inches

year/	January			February			March			April			May			
card	date	dep	swe	date	dep	swe	date	dep	swe	date	dep	swe	date	dep	swe	dat
36-1	K/30	15	2.3	1/30	27	4.8	2/27	36	10.8	3/29	29	5.8				
37-1	K/28	31	3.4	1/30	32	6.0	2/27	31	8.4	3/27	40	11.2	4/30	0	0.0	
38-1	K/31	12	3.2	1/31	20	4.8	2/26	42	11.6	3/30	55	17.1	5/02	1	0.5	
39-1	K/30	11	2.5	1/28	22	4.0	2/27	32	6.8	4/01	25	6.6				
40-1	K/31	6	1.0	2/03	15	3.0	3/03	22	5.6	4/01	16	5.0				
41-1	K/31	20	3.8	1/28	26	5.8	3/03	30	7.8	3/28	28	8.1				
42-1	K/30	23	4.8	1/30	28	6.6	2/28	35	8.8	3/28	34	9.4				
43-1	K/30	21	4.6	1/29	44	10.2	2/27	41	12.6	3/31	37	11.6				
44-1				1/31	14	2.0	2/28	25	4.8	3/30	35	9.2				
45-1	K/29	18	3.0	1/29	22	4.0	2/27	31	8.6	3/30	35	9.6				
46-1	K/31	25	5.2	2/01	30	7.2	2/27	37	9.6	3/31	40	11.4				
47-1	K/31	31	8.0	1/31	41	9.4	2/28	35	10.2	3/31	29	7.8				
48-1	K/30	14	1.8	1/30	16	3.0	2/28	22	4.2	3/29	34	8.4				
49-1	K/31	21	4.0	1/29	25	5.4	2/26	40	11.2	3/28	38	12.0				
50-1	K/29	22	5.2	2/07	42	10.2	2/25	40	13.0	3/28	48	15.0				
51-1	1/03	17	3.0	2/05	22	4.8	2/28	30	6.2	3/30	32	9.0				
52-1	1/03	33	8.6	1/27	57	16.2	3/02	62	21.0	3/30	65	24.8	5/02	25	10.8	
53-1	K/31	32	7.0	2/01	33	10.2	3/03	42	12.6	3/30	36	12.6				
54-1	1/01	16	3.0	1/31	31	6.8	2/28	35	9.4	3/28	39	10.8				
55-1	1/04	18	2.6	1/31	21	4.0	2/27	34	5.6	3/28	33	8.6				
56-1	K/30	20	5.2	1/30	34	8.6	2/29	39	9.6	3/30	35	10.2				
57-1	1/07	30	4.2	2/03	30	7.0	3/01	30	8.4	4/02	38	10.6	4/29	29	9.4	
58-1	1/08	21	4.0	2/03	26	6.0	2/28	34	7.8	3/25	46	12.6	5/09	22	7.8	
59-1	K/29	10	1.2	1/30	20	4.2	2/27	37	8.6	3/30	36	9.4				
60-1	K/28	20	2.8	1/28	23	5.0	2/29	28	6.8	3/30	27	7.4				
61-1	K/29	18	3.2	1/30	17	3.8	2/27	24	5.0	3/29	29	7.2				
62-1	K/29	24	5.7	1/29	29	7.4	2/26	37	10.4	3/28	45	13.0				
63-1	K/28	12	2.6	1/28	14	3.0	2/26	14	3.4	3/27	13	3.6				
64-1	K/30	16	3.2	1/28	28	5.5	2/26	29	6.7	3/26	37	10.4				
65-1	K/28	34	7.0	1/29	49	14.6	2/26	44	14.4	3/29	44	14.5				
66-1	K/30	21	3.9	1/28	28	6.7	2/23	32	8.6	3/31	29	9.1				
67-1	K/29	17	3.7	1/30	39	9.5	2/27	37	11.4	3/31	45	14.2				
68-1	K/28	25	5.2	1/29	40	8.5	2/27	33	9.7	3/28	36	11.5				
69-1	K/30	29	5.9	1/27	60	16.1	2/26	85	22.0	3/27	68	24.5	5/02	39	18.0	
70-1	K/31	19	3.6	1/28	28	6.9	2/25	27	7.0	3/30	40	10.4				
71-1	K/30	44	10.6	1/27	46	13.8	2/24	48	14.4	3/29	54	18.9				
72-1	K/28	37	8.8	1/28	37	10.0	2/25	36	10.8	3/29	37	13.0				
73-1	K/29	18	3.4	2/01	28	6.4	2/27	32	7.8	3/28	37	9.8				
74-1	K/28	35	5.2	1/30	29	7.9	2/28	33	8.9	3/28	39	12.7				
75-1	K/31	21	4.0	1/30	25	5.8	2/27	40	12.2	3/29	54	15.2				
76-1	K/29	21	4.8	1/30	26	6.9	2/26	32	7.9	3/29	38	9.7				
77-1	K/29	0	0.0	2/01	9	2.4	2/28	11	1.8	3/31	15	3.0				
78-1	K/29	12	2.0	1/30	25	6.0	2/28	38	9.8	3/31	28	9.6				
79-1	K/29	18	3.2	1/31	24	4.4	2/28	32	7.3	3/29	35	9.4				
80-1	K/31	14	2.2	2/01	21	4.0	2/28	27	6.0	4/01	39	10.2				
81-1	K/31	13	3.0	1/29	21	5.0	2/27	32	6.8	3/31	35	9.6				

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82-1 K/31	19	3.0	1/29	28	5.0	2/25	28	8.1	3/29	51	11.5
83-1 1/03	36	9.0	2/03	36	10.2	3/01	52	14.0	3/30	55	17.8
84-1 K/27	24	4.4	1/30	24	4.8	2/29	31	6.9	3/28	39	9.2
85-1 K/28	15	2.6	1/29	26	6.0	2/28	34	8.2	3/29	46	10.8
86-1 K/26	17	4.0	1/30	25	6.2	2/25	26	5.8	3/27	24	7.2
87-1 K/24	8	1.2	1/29	17	3.2	2/27	23	5.0	3/27	18	6.2
88-1 K/29	12	2.0	1/28	20	4.0	2/26	20	5.0	3/30	18	4.7
89-1 K/27	36	8.0	1/30	36	9.6	3/01	37	10.4	3/30	29	10.2
90-1 K/28	5	1.0	1/30	13	3.0	2/28	20	5.0	3/29	15	5.0
91-1 K/31	10	1.0	2/01	14	2.7	2/28	16	4.5	4/01	20	6.5
92-1 K/30	16	3.0	1/31	19	4.0	2/27	32	7.8	3/31	22	7.6
93-1 1/04	36	6.4	1/29	36	9.8	3/01	42	11.4	4/01	29	10.6
94-1 1/03	10	1.2	1/31	13	2.0	3/01	24	6.0	4/04	22	6.0
95-1 K/30	29	7.4	1/30	42	10.2	2/23	40	11.5	3/31	40	12.5
96-1 K/29	9	1.5	1/30	29	5.0	2/27	30	6.4	3/29	36	8.3
97-1 K/30	27	6.9	1/31	30	8.5	2/27	32	8.7	3/31	31	9.8
98-1 K/30	12	2.0				2/26	39	9.5	3/31	30	9.4
52-2									4/15	55	21.8

FIRST OF MONTH MEASUREMENTS
average depth and swe :

	20	4.0	28	6.6	34	8.8	35	10.4	19	7.8
years	62	62	62	62	63	63	63	63	6	6
1961-1990 average :										
	21	4.2	28	6.9	33	8.7	36	10.7	39	18.0
years	30	30	30	30	30	30	30	30	1	1

MID-MONTH MEASUREMENTS
average depth and swe :

							55	21.8		
years	0	0	0	0	0	0	1	1	0	0
1961-1990 average :										
years	0	0	0	0	0	0	0	0	0	0

NOTES: O/dd - October, J/dd - November, K/dd - December, E/ST - estimate
Card type 1 = First of Month, 2 = Mid-Month, and 3 = Special Measurement

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Contor, Bryce
From: Contor, Bryce
Sent: Monday, April 03, 2000 8:44 AM
To: McHugh, Candice
Cc: Music, Vicky; Carlsen, Ernie
Subject: "Allotment System" in Suave Decree

The federal court decree "Suave v Abbot," 1930, is the main decree we rely upon in B31.

One of the unique features of this decree is an "allotment system" for accounting for storage in Mud Lake. It is described in section 5 of the decree.

Ernie and I believe that we need a general provision to allow for continued use of the allotment system. A problem we will have, though, is dealing with differences between historical practice and the decree:

1) Initial estimate of Camas Creek contributions, for May 1 calculation of allotment.

The watermaster pointed out that the provision to allocate 18,000 acre feet as an estimated contribution of Camas Creek is unworkable. Many years that is an unrealistically high estimate, and it causes some social distress if the watermaster makes an original allocation based on that estimate, then has to reduce the allocation significantly as the season progresses and actual Camas Creek contributions can be assessed.

Historical practice of the watermasters back at least to 1960 has been to make a more realistic initial allocation based upon snow pack in the basin. The watermaster couldn't give us a hard and fast rule of how he does this. However, he did provide me with annual Camas Creek volume for the last 16 years. I believe I can get corresponding snow pack data and see what kind of statistical relationship there may be. The watermaster cautioned that the unknown variable will be rainfall after the beginning of the allotment calculation season.

2) Ambiguous language regarding curtailment of junior rights.

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The last part of the second paragraph in section 5 states:

"…thereafter at intervals during the irrigation season, not less frequent that 15 days, such official shall compute the amount of water theretofore used by each right (including the amount, if any, used prior to May 1st) and the amount of water remaining available to fill such rights, taking into consideration actual accretion to the lake from natural inflow and charge each right its proportionate part of the evaporation losses in the lake; and whenever, according to such computation, at any time there shall no longer remain in the lake any water available to fill any right after deducting from the available supply computed up to date as aforesaid, the amount necessary to supply prior rights to September 1st, such later rights shall be cut off."

The watermaster's practice has been to recalculate the allotment every fifteen days until surface sources quit contributing to the lake. At that time a "final allotment" is calculated, assigning each water right a volume of storage based on priority. This allotment is not recalculated for the rest of the season, though evaporation and other losses continue to be calculated and charged against storage.

The watermaster's practice appears to be just, and accepted by the water users, but it is unclear to me if it might be inconsistent with the underlined passage above.

3) Limitation of 35% of allotment per month.

Paragraph 4 of section 5 states "Nothing herein contained shall restrict any user from using at such times and in such quantities as he may desire, his said seasonal allotment of water, but not exceeding 35 per cent of his seasonal allotment in any one calendar month…"

This limitation was likely intended to prevent injury by a user overdrafting an initial allotment that was too high, due to a too-high estimate of Camas Creek inflows. The historical practice of using a more conservative estimate of inflow, combined with the development of wells to supplement the lake, has largely overcome the need for this provision.

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Historical practice has been to allow withdrawal of allotment water without regard to the restriction. If the final allotment calculation shows that a user has over-drawn his/her allotment, the watermaster has allowed the user to purchase storage from another user or run well pumps to replace the overdraft.

Your thoughts, please, on how to proceed?

Thanks, Bryce

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Contor, Bryce
From: Contor, Bryce
Sent: Monday, April 03, 2000 8:08 AM
To: McHugh, Candice
Cc: Music, Vicky; Carlsen, Ernie
Subject: Bauerly Decree 1940

One of the B31 decrees we rely upon is Owsley Canal Co. v. Ernest Bauerly, 1940. Apparently this was a "gentlemen's decree" or "private" decree, because it didn't involve all the water users in the basin. However, it appears to have included all the wells that pump into Mud Lake.

In section XII, it specifies annual diversion volumes for the parties' wells. These volumes aren't specified in acre feet, but in a pumping rate for a fixed period of time. This allows calculation of a volume, however. These volumes range from just over 4.0 acre feet per acre, to about 7.0 acre feet per acre. The IDWR standard in this area is 3.5 acre feet per acre.

The watermaster is planning to provide historical data showing transmission and storage losses. From our discussions and from some preliminary data, I think that his figures will justify most of this excess volume.

May I recommend the annual volumes in the Bauerly Decree for these groundwater rights?

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To: Mud Lake Storage File
Fr: Bryce Contor
Date: 3/31/2000

Re: Meeting w/ Greg Shenton, Garth Soderquist, Andy Dobson, Don Parker

This meeting is a follow-up to a meeting held 3/22/2000. Based on that meeting and my review of 1961 and 1964 allotment records from WD 31 microfiche, I tentatively proposed the following. Notes were added as we talked:

1. Season of Use:

   Ernie Carlsen is reviewing season of use for irrigation. I propose that the season of use he recommends be used for all irrigation:

   - Irrigation from natural flow of surface sources.
   - Irrigation from well diversions.
   - Irrigation from allotment storage.
   - Irrigation from well storage.

   For "irrigation storage" from surface sources I propose the season of use be Nov 1 to Oct 31, to parallel the allotment accounting. WD 31 resolutions specify that late drafts be charged against the following year's allotment.

   For "irrigation storage" from wells I propose the season of use be March 1 to October 31. This is because WD 31 resolutions call for no carryover of storage.

2. Storage Volume.

   Storage volume for natural flow rights calculated according to Suave decree formula:

   cfs * 2 acre feet/day/cfs * 123 days

   (note that precise factor is 1.983 acre feet/day/cfs but the proposed formula reflects historical practice)

   Storage volume for well rights calculated by dividing the highest recorded storage in Mud Lake proportionately among the existing well rights. Tentatively use 8.0 foot gage height storage minus the - 1.0 gage height storage, but defer to watermaster's recommendation if different.

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3. Diversion Rate.

   Recommend as decreed in Suave.

4. Annual Diversion Volume.

   Surface rights do not need a volume limitation in the recommendation.

   Standard well volume is 3.5 acre feet per acre. Per 1961 and 1964 allotment records, historical losses in lake are approximately 0.80 acre feet per acre (watermaster may have better data to refine this number). For now I propose recommending 3.5 + 0.8 = 4.3 acre feet per acre diversion volume on well rights.

   If watermaster records show significant loss between the wells and the lake, those losses will have to be added to the proposed volume, too.

   Greg believes Suave Decree references an acre foot value - 6 or 7 feet? If volume is specified in decree, we will need to recommend per decree.

5. Remark or General Provision

   I believe we should include a remark or general provision clarifying the need to continue use of the allotment system per Suave decree. Ernie Carlsen and IDWR legal staff will have to make the call on this issue.

   Greg Shenton's current practice is to use a more realistic estimate than the 18,000 acre feet referenced in Suave. Often 18000 is way too much. Can the remark allow current practice. Greg believes this had always been Don Shenton's practice, as well.

   Greg estimates that 120% snowpack can produce a 20,000 acre foot contribution. Estimated inflow per allotments has been decided by the watermaster, not the water users. Watermaster and water users jointly have decided early pumping.

6. Holly Storage Right.

   Evidence tends to show that the right was forfeited through non-use. However our instructions are to recommend forfeited rights if use has resumed, and let objectors challenge the recommendation if they believe it injures them.

   Because beneficial use storage right will be recommended based on lake capacity, a combined use limitation will be included in remarks showing that the Holly right overlaps the beneficial use right.

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The result will be that if the Holly storage right stands, 5,000 acre feet of storage will have a better priority. Either way, the recommendations will allow for adequate storage to reflect historical practice.

Per Ernie, a complicating issue is the fact that the resumed use is changed from the decreed use.

Another issue is the transfer. If the transfer acknowledges the storage right, we will likely recommend it. However, someone could still object.

7. Priority Date

Decreed rights (including Holly storage): Priority date will be recommended per decree.

Beneficial use storage rights: Recommend per documentation provided. Right now, 1961 is documented. Note that 1982 agreement asserts practice began in 1960's.

Loy Johnson told Don Parker early season pumping occurred during his tenure (1954 to 1960) which gives us at least a 1960 priority. Johnson may be able to find diaries to document earlier date?

An issue w/ the storage is that there may be an "in season" portion of the well storage authorized by Suave and/or Baurley. If so, the well storage claims may have two components, in-season and early-season, with two different priority.

8. Independent "Runoff" right.

Need to ask Greg and Don Parker what this right is.

A problematic issue is that the Suave Decree already appears to allocate all pre-season or in-season inflows that accumulate as storage in the lake.

Per Don Parker, Independent has no runoff right.

Level Canal has some late-priority decreed rights, sometimes referred to a runoff right.

This may refer to the Level Canal right, 11.09 cfs, 1952. This is a beneficial use claim for additional ground. No additional diversion capacity was developed at the time so it is like an enlargement, but since it was prior to '63 there will be no subordination language attached. (If this is well water, it must be an Independent right because Level has only creek water.)

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This is part of the transfer process being handled by Harold Jones.

Actions:

1) Greg will look for allotment summary sheet showing high losses in dry year.

2) Don Parker will talk to Loy Johnson to see if he can get an affidavit to establish early season pumping priority date.

3) Greg will provide documentation of Independent and North Lake losses.

4) Ernie will continue to research season of use.

5) Bryce will look at decrees to see if well storage needs to have two components, a decreed component for in-season use and a beneficial use component for early-season pumping. May have different priority dates.

6) Don and Garth will double-check place of use on independent transfer.

7) Based on the results, Independent's beneficial use storage claim will be modified prior to signature. We will prepare beneficial use claims for Mud Lake Water Users and Dobsons.

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1) How is evaporation figured?
Evap pan

2) How is loss divided between
Allotment storage & well storage?
loss is charged to Balance of storage - loss ~~applies~~ a factor

3) How is loss divided among well storage owners?

4) How much loss between wells & where inflows are measured?

Bybee - Meas @ pump -

Ind - meas @ pump & at Kirchen Bridge (Beginning of lake)

North Lake - loss = not recorded -

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» «

WD 31 Acreage breakdown - attachment to agreement

Owsley	17,800
Fadeett	2,821
Independent	4,803
Holley	600
	26,024

Composite yearly pumping - "flow" totals from 1961 & 1964 records

May	1-15	1961	5544
	16-31	1961	7297
Jun	1-15	1961	7047
	16-30	1961	6763
July	1-15	1961	6376

$\Sigma = 33127$

$\bar{x} = 6600$

Jun	1-15	1964	1776
	15-30	1964	1506
Aug	1-15	1964	7252
	16-31	1964	6680
Sep	1-15	1964	6510
	16-30	1964	4372

} Carmen Creek flowing

$\Sigma = 24814$ (Aug & Sept)

$\bar{x} \approx 6200$

Composite $6600 \times 2 = 13200$/month $\times 3 = 39600$
(May, Jun, July)

$6200 \times 2 = 12400$/month $\times 2 = 24800$
(Aug, Sept)

$\Sigma = 64400$

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$\frac{64400}{26000} \approx 2.46$ af/acre

Total Water Usage - composite

1961	Loss plus draft
May 1-15	7867
16-31	9748
Jun 1-15	12710
16-30	10244
Jul 1-15	6376
	$\Sigma = 38945$
	$\bar{x} \simeq 7800$

1964	Loss plus draft
Jun 1-15	8198
15-30	7554
Aug 1-15	10982
16-31	4863
Sept 1-15	3387
16-30	6099
	$\Sigma = 41083$
	$\bar{x} \simeq 6850$

Composite avg.

May $\frac{7867 + 9748}{2} \times 2 =$ 16600

Jun
12710
10244
8198
7554
38706

$\frac{38706}{4} \times 2 =$ 19300

Jul $\frac{6376}{1} \times 2 =$ 12800

Aug
10982
4863
15845

$\frac{15845}{2} \times 2 =$ 15800

Sept
3387
6099
9486

$\frac{9486}{2} \times 2 =$ 9500

74000

74000
26000

$\simeq 2.84$ ac/ac

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Total Loss Composite

1961

May 1-15	1428
16-31	1893
Jun 1-15	2078
16-30	283
July 1-15	3408
	$\Sigma = 9090$

$\bar{X} \approx 1810$ / 15 days

≈ 3620 / month

1964

Jun 1-15	2474
15-30	2079
Aug 1-15	3316
16-31	1397
Sep 1-15	605
16-	799
	$\Sigma = 10670$

$\bar{X} \approx 1780$ / 15 days

≈ 3560 / month

Composite

May $1428 + 1893 \approx 3320$

Jun $2078 + 283 + 2474 + 2079 = 6914$; $\frac{6914}{4} \times 2 \approx 3460$

Jul $3408 \times 2 \approx 6820$

Aug $3316 + 1397 \approx 4720$

Sep $605 + 799 \approx 1410$

$\Sigma = 19730$

$\frac{19730}{26000} \approx 0.76$ / acre

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NOV 2 5 2002

CAMMAS CREEK TOTAL FLOW

YEAR	FLOW
1983	77,778 A.F.
1984	54,188 A.F.
1985	20,000 A.F.
1986	27,224 A.F.
1987	2,444 A.F.
1988	1,000 A.F.
1989	10,600 A.F.
1990	0 A.F.
1991	0 A.F.
1992	0 A.F.
1993	26,184 A.F.
1994	0 A.F.
1995	50,185 A.F.
1996	20,302 A.F.
1997	40,026 A.F.
1998	43,438 A.F.
1999	47,692 A.F.
2000	

Date 3/31/00 Sig. [signature]
****
Claim Mud Lake Storage
Doc Source Greg Sheriton,
Watermaster WD 31

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WELL WATER
OWSLEY N.LAKE; BYBEE WELLS; JACKETT WELLS

YEAR	FLOW	LOSS	BALANCE
1990	20,401 A.F.	2,129 A.F.	18,272 A.F.
1991	26,394 A.F.	3,648 A.F.	22,746 A.F.
1992	21,718 A.F.	4,402 A.F.	17,316 A.F.
1994	24,242 A.F.	3,343 A.F.	20,899 A.F.

WELL WATER
INDEPENDENT WATER USERS

YEAR	FLOW	LOSS	BALANCE
1990	3,493 A.F.	365 A.F.	3,128 A.F.
1991	4,542 A.F.	628 A.F.	3,914 A.F.
1992	4,094 A.F.	830 A.F.	3,264 A.F.
1994	5,040 A.F.	695 A.F.	4,345 A.F.

GAUGE HEIGHTS

YEAR	MONTH	GAUGE	MONTH	GAUGE
1990	March 17th	3.55	May 1st	8.05
1991	March 6th	1.55	May 1st	8.05
1992	March 15th	2.18	May 1st	7.30
1994	March 10th	1.70	May 1st	7.70

See following
early-piping results;
this must refer only to
[illegible] piping

Date 3/31/00 Sig. [illegible] Conton
****
Claim Mud Lake Storage
Doc Source Greg Shanton
Watermaster, WD 31

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NOV 25 2002

INDEPENDENT WATER USERS EARLY PUMPING REPORT

YEAR	DATE PUMPING STARTED	ACRE FEET PUMPED
1989	APRIL 8TH – 30TH	3,020 A.F.
1990	MARCH 22	913 A.F
	APRIL	2,580 A.F.
	TOTAL E/P	3,493 A.F.
1991	MARCH 6TH	2,272 A.F.
	APRIL	2,270 A.F.
	TOTAL E/P	4,542 A.F.
1992	MARCH	1,928 A.F.
	APRIL	2,160 A.F.
	TOTAL E/P	4,094 A.F.
1993	MARCH	880 A.F.
	APRIL	2,368 A.F.
	TOTAL E/P	3,248 A.F.
1994	MARCH 10TH	2,342 A.F.
	APRIL	2,698 A.F.
	TOTAL E/P	5,040 A.F.
1995	APRIL 17TH – 28TH	1,335 A.F. estimated flow
1996	MARCH	1,870 A.F.
	APRIL	4,142 A.F.
	TOTAL E/P	6,012 A.F.

OF THE 8 YEARS ABOVE, THE MOST EARLY PUMPED WAS IN 1996 AT 6,012 A.F.
THE LEAST EARLY PUMPPING WAS IN 1995 AT 1,335 A.F.

1990 TO 1994 FIVE YEAR AVERAGE

	FIVE YEAR TOTAL	FIVE YEAR AVERAGE
MARCH	8,335 A.F.	1,667 A.F.
APRIL	12,076 A.F.	2,415 A.F.
SEASON	20,411 A.F.	4,082 A.F.

Date 3/31/00 Sig. B. Coulter

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Doc Source Greg Shenton

Watermaster, WD 37

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OWSLEY & JACKETT EARLY PUMPING REPORT

LOCATION		MONTH	A.F. MEASURED
		YEAR 1989	
N.L		APRIL	3,380 A.F.
BYBEE'S		APRIL	3,300 A.F.
J.C.C.		APRIL	1,300 A.F.
	TOTAL		7,980 A.F.
		1990	
N.L.		MARCH 22	2,382 A.F.
BYBEE'S		MARCH 18	3,565 A.F.
J.C.C.		MARCH	0 A.F.
	TOTAL		5,947 A.F.
N.L.		APRIL	5,634 A.F.
BYBEE'S		APRIL	5,730 A.F.
J.C.C.		APRIL	3,090 A.F.
	TOTAL		14,454 A.F.
	TOTAL OF BOTH MARCH & APRIL		20,401 A.F.
		1991	
N.L.		MARCH 11	4,580 A.F.
BYBEE'S		MARCH 10	4,902 A.F.
J.C.C.		MARCH 13	1,140 A.F.
	TOTAL		10,622 A.F.
N.L.		APRIL	6,612 A.F.
BYBEE'S		APRIL	6,776 A.F.
J.C.C.		APRIL	2,384 A.F.
	TOTAL		15,772 A.F.
	TOTAL OF BOTH MARCH & APRIL		26,394 A.F.
		1992	
N.L.		MARCH	1,540 A.F.
BYBEE'S		MARCH	2,048 A.F.
J.C.C.		MARCH	142 A.F.
	TOTAL		3,730 A.F.
N.L.		APRIL	6,900 A.F.
BYBEE'S		APRIL	9,120 A.F.
J.C.C.		APRIL	1,968 A.F.
	TOTAL		17,988 A.F.
	TOTAL OF BOTH MARCH & APRIL		21,718 A.F.

Date 3/2/00 Sig. B. Coxton

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		1993	
N.L.		MARCH	1,078 A.F.
BYBEE'S		MARCH	192 A.F.
J.C.C.		MARCH	168 A.F.
	TOTAL		1,438 A.F.
N.L.		APRIL	6,730 A.F.
BYBEE'S		APRIL	6,836 A.F.
J.C.C.		APRIL	2,712 A.F.
	TOTAL		16,278 A.F.
	TOTAL OF BOTH MARCH & APRIL		17,716 A.F.
		1994	
N.L.		MARCH 10	1,516 A.F.
BYBEE'S		MARCH	3,576 A.F.
J.C.C.		MARCH	1,380 A.F.
	TOTAL		6,472 A.F.
N.L.		APRIL	6,674 A.F.
BYBEE'S		APRIL	8,644 A.F.
J.C.C.		APRIL	2,155 A.F.
	TOTAL		17,473 A.F.
	TOTAL OF BOTH MARCH & APRIL		23,945 A.F.
		1995	
N.L. & BYBEE'S		APRIL 17-28	6,787 A.F.
		1996	
N.L.		MARCH	1,800 A.F.
BYBEE'S		MARCH	2,006 A.F.
J.C.C.		MARCH	0 A.F.
	TOTAL		3,806 A.F.
N.L.		APRIL	3,766 A.F.
BYBEE'S		APRIL	4,472 A.F.
J.C.C.		APRIL	0 A.F.
	TOTAL		8,238 A.F.
	TOTAL OF BOTH MARCH & APRIL		12,044 A.F.

OF THE 8 YEARS ABOVE,

1. **THE MOST WATER PUMPED FOR EARLY PUMPING, WAS IN 1991 WHICH WAS 26,394 A.F.**
2. **THE LEAST WATER PUMPED FOR EARLY PUMPING, WAS IN 1995 WHICH WAS 6,787 A.F.**

1990 TO 1994 FIVE YEAR AVERAGE

	FIVE YEAR TOTAL	FIVE YEAR AVERAGE
MARCH	28,209 A.F.	5,642 A.F.
APRIL	81,965 A.F.	16,393 A.F.
SEASON	110,174 A.F.	22,035 A.F.

Date 3/31/00 Sig. B. Conlon

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Claim Mud Lake Storage

Doc Source Greg Shanton

Watermaster WD 31

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NOV 25 2002

Mud lake Allotment

Re-Allocation 1993

MAY 1 G.H. 6.60 G.H.	29,200
April Draft	-0-
Actual Camas Flow	26,184
	55,384
Less Well Water Total	18,690
	36,694
Less -1.0 G.H. unavailable	1,790
Less West end of Lake	2,000
A.F. to be allocated.	32,904
C.F.S. to be allocated.	16,452

123 ÷ 16,452 = 133.76

	Right Amount	Allotment C.F.S.	Allotment A.F.
Keith Shuldberg	1.70	209	418
Holly Water users	-0-	-0-	-0-
Jackett Canal Co	8.00	984	1,968
Owsley Canal Co	91.26	11,225	22,450
Level Canal Co.	24.00	2,952	5,904
Dobson Andy	7.80	959	1,918
Potter Joe.	1.00	123	246
Burtenshaw	-0-	-0-	-0-
Total	133.76	16,452	32,904

Date 3/31/00 sig. L. Clinton
****
Claim Mud Lake Storage
Doc Source Reg Stanton
Watermaster Wd 31

SCANNED
NOV 25 2002

Final Re-Allocation

Mud Lake Allotments and Disbursements
Month: August

199 3

Mud Lake Decreed Rights				1 -15					15 - 31			
	April Draft	Right Amount	Season Allot	Begin Balance	Draft	Loss	Total Use	End Balance	Draft	Loss	Total Use	End Balance
Shuldberg, K.	0	1.70	418	293	0	21	21	272	0	31	31	241
Holly Water Users	0	0	0	0	0	0	0	0	0	0	0	0
Jackett Canal Co.	0	8.00	1,968	0	0	0	0	0	0	0	0	0
Owsley Canal Co.	0	91.26	22,450	0	0	0	0	0	0	0	0	0
Level Canal Co.	0	24.00	5,904	3028	128	217	345	2683	386	302	688	1,995
Dobson Ranch	0	7.80	1,918	332	12	24	36	296	102	33	135	161
Potter, Joe	0	1.00	246	89	0	6	6	83	0	9	9	74
Burtenshaw Bros.	0	0	0	0	0	0	0	0	0	0	0	0
Allotment Totals	0	133.76	32,904	3742	140	268	408	3334	488	375	863	2,471

	1 -15	15 - 31
Mud Lake Gauge Beginning of Period	5.25	5.63
Mud Lake Content Beginning of Period	21,800	24,000
Mud Lake Gauge End of Period	5.68	5.35
Mud Lake Content End of Period	24,000	22,300
Total Depletion in Period	(2,200)	1,700
Camas Creek Inflow	NONE	NONE
Total Inflow To Lake For Period	5,908	4,440
Draft For Period	2,416	3,864
Loss For Period	1,292	2,276
Loss Plus Draft For Period	3,708	6,140
Evaporation (G.H. Factor (.20) (.18)	600	540
Unaccounted For Loss	692	1,736
Lake Contents Less Well Storage	7,124	6,261

Date 3/31/00 Sig. [signature]
****
Claim Mud Lake Storage
Doc Source Greg Shanton
Watermaster WD 31

Well Water	Beginning Balance	Flow	Loss	Draft	Total Use	End Balance	Flow	Loss	Draft	Total Use	End Balance	
Owsley Canal Co. North Lake	4167	180	299	2176	2475	1872	0	211	1661	1872	0	
Owsley Canal Co. Bybees	7760	4440	557	0	557	11,643	3976	1311	1319	2630	12,989	.75
Burtenshaw-Holly Spillway	470	122	34	50	84	508	22	57	52	109	421	
Jackett Canal Co.	1,225	1166	88	50	138	2253	442	254	262	516	2179	.77
Dobson Ranch (Well)	0	0	0	0	0	0	0	0	0	0	0	
Ind. Water Users Assoc.	--------	0	----	-----	-------	-------	—	—	0	—	—	.73
Level Canal Co. .5630	0	0	0	0	0	0	0	0	0	0	0	
Dobson Ranch .1931	332	0	24	0	24	308	0	35	0	35	273	
Shuldberg, K. .0459	78	0	6	0	6	72	0	8	0	8	64	
Potter, Joe .0290	49	0	3	0	3	46	0	5	0	5	41	
Burtenshaw Bros .1690	187	0	13	0	13	174	0	20	82	102	72	
Well Water Totals	14,268	5908	1,024	2276	3,300	16876	4440	1901	3376	5269	16,039	

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NOV 25 2002

Aug 1

21,800 ML Begin
− 14,268 Well Begin
7532
− 3742 Allotment Begin
3790
− 1790 below GH −1.0
2000 West Lake
− 2000
0

Dubois, Idaho
May 26, 19[illegible]

Department of Reclamation

Mr. Roy Thompson
Assistant Reclamation Engineer
State House
Boise, Idaho

1961 Microfiche

Dear Mr. Thompson,

I have recieved the copies of the material I requested and also the original of the letter and minutes of the meeting with the Forest Service officials. I wish to express my appreciation for the work which was done.

I find that the figures on the allottment sheet were correct as stated. We were not deducting the -1.[illegible] gage heighth of ineligible water from our figures. The following will show the proper balance procedure.

End of period May 15, 1961

Mud Lake Allotment Balance	18,315 Acre Ft.
Well Water Balance	5,129 Acre Ft.
Unavailable lake water not included in allotments above	1,790 Acre Ft.
Total	25,234

After studing the procedure for balancing the figures, I feel it should show the figures which it calls for instead of the total. Therefore I submit this procedure. The balance will be derived in this way in the allottment sheets to follow:

Lake contents at end of period	25,315 Acre Ft.
Less well storage	5,129 Acre Ft.
Lake contents, less well storage	20,105 Acre Ft.

I hope this will clarify the problem. Please approve these allottments and the photographic copy.

Thank You.

Sincerely Yours,

Donald W. Shenton

Donald W. Shenton
Watermaster Dist. No. 66

$\frac{5129}{15} = 342$ 8

$\frac{342}{1.9835} = 174$ cfs

SCANNED

Date 5/10/00 Sig. [illegible] 2002
****
Claim Mud Lake Storage
Doc Source WD 31
Microfiche 1961

Dubois, Idaho
May 26, 1961

Department of Reclamation

1961 Mcwfish

Mr. Roy Thompson
Assistant Reclamation Engineer
State House
Boise, Idaho

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Sincerely Yours,

Donald W. Shenton

Donald W. Shenton
Watermaster Dist. No. 66

$\frac{5129}{15} = 342.8$

$\frac{342}{1.9835} = 174$ cfs

SCANNED
Date 5/10/00 Sig. B. Conte 2002
Claim Mud Lake Storage
Doc Source WD 31
Mcwfish 1961

1961 Microfiche

May 29, 1961.

Re: Water District No. 66

Mr. Donald W. Shenton, Watermaster,
Water District No. 66,
Dubois, Idaho.

Dear Mr. Shenton:

We are returning allotment sheets approved by this Department. Your figures are correct, although we would suggest that you keep your decreed allotments in Mud Lake separate in every detail from your well water allotments. In other words, keep the losses separated. For example, take the Owsley Canal Company - keep the losses tabulated under the heading of "Well Water" - in place of showing the aggregate amount of loss in one place, show the losses in both places. By this method, your allotment sheets will be in balance.

We enjoyed your visit while in Boise.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

ROY W. THOMPSON
Supervisor or Water Distribution

Encl.
RWT:pmk

Date 5/10/61 Sig. A. Conton
Claim Mud Lake Storage
Doc Source WD31 Microfiche
1961

SCANNED
NOV 25 2002

Mud Lake Allotments and Disbursements
Month: July

1993

Mud Lake Decreed Rights	April Draft	Right Amount	Season Allot	1 -15 Begin Balance	1 -15 Draft	1 -15 Loss	1 -15 Total Use	1 -15 End Balance	15 - 31 Draft	15 - 31 Loss	15 - 31 Total Use	15 - 31 End Balance
Shuldberg, K.	0	1.70	418	201	92	27	119	382	56	33	89	293
Holly Water Users	0	0	0	0	0	0	0	0	0	0	0	0
Jackett Canal Co.	0	4.50	1,107	861	744	117	861	0	0	0	0	0
Owsley Canal Co.	0	73.26	18022	4785	4135	650	4785	0	0	0	0	0
Level Canal Co.	0	1.60	394	5510	794	748	1,542	3,968	318	322	640	3,028
Dobson Ranch	0	6.43	1582	1,333	718	181	899	434	64	38	102	332
Potter, Joe	0	.80	197	185	58	25	83	102	4	9	13	89
Burtenshaw Bros.	0	0	0	0	0	0	0	0	0	0	0	0
Allotment Totals	0	88.29	21,720	12,875	6,541	1,748	8,289	4,586	442	402	844	3,742
Mud Lake Gauge Beginning of Period				6.70					4.75			
Mud Lake Content Beginning of Period				29,800					19,300			
Mud Lake Gauge End of Period				4.75					5.25			
Mud Lake Content End of Period				19,300					21,800			
Total Depletion in Period				10,500					(2,500)			
Camas Creek Inflow				200					0			
Total Inflow To Lake For Period				5,056					8,956			
Draft For Period				12,198					5,096			
Loss For Period				3,558					1,360			
Loss Plus Draft For Period				15,756					6,456			
Evaporation (G.H. Factor .30)				840					600			
Unaccounted For Loss				2,718					760			
Lake Contents Less Well Storage				8,376					7,532			

Date 7/31/00 Sig. D. Coulter
Claim Mud Lake Storage
Doc Source Greg Shenton
Information, WD 31
****

SCANNED NOV 25 2002

Well Water	Beginning Balance	Flow	Loss	Draft	Total Use	End Balance	Flow	Loss	Draft	Total Use	End Balance
Owsley Canal Co. North Lake	5,340	1,834	725	4973	5,698	1,476	2,820	129	0	129	4,167
Owsley Canal Co. Bybees	5,002	2,646	679	0	679	6,969	4,626	611	3724	3,835	7,760
Burtenshaw-Holly Spillway	243	234	33	130	163	314	250	28	66	94	470
Jackett Canal Co.	1,558	342	211	364	575	1,325	1,260	116	1,244	1,360	1,225
Dobson Ranch (Well)	0	0	0	0	0	0	0	0	0	0	0
Ind. Water Users Assoc.	--------	0	----	-----	-------	-------	0	0	0	0	0
Level Canal Co. .5630	350	0	48	0	48	0	0	0	0	0	0
Dobson Ranch .1931	421	0	57	0	57	364	0	32	0	32	332
Shuldberg, K. .0459	100	0	14	0	14	86	0	8	0	8	78
Potter, Joe .0290	62	0	8	0	8	54	0	5	0	5	49
Burtenshaw Bros .1690	259	0	35	190	225	336	0	29	120	149	187
Well Water Totals	13,335	5,056	1,810	5,657	7,467	10,924	8,956	958	4,654	5,612	14,268

	July 1-15-93	July 16-31-93
Lake Balance	12,785	4586
Well Balance	13,335	10924
Total (to get Factor	26,210	15,510
Depletions	10,500	(2500)
Inflow Well Camas > 5056 200	+ 5256	- 8956
Draft -	- 12,198	- 5096
	3,558	loss 1360

3,558 ÷ 26,210 = .135749713 | 1360 ÷ 15510 = .087685364

3/31/00 B. Contor

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Claim Mud Lake Storage

Doc Source Greg Shenton

Watermaster, WD 31

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NOV 25 2002

RECEIVED 1961 MUD LAKE ALLOT

JUN 21 1961
Department of Reclamation

	OWNER	Acres Cert. Decree	April Draft	Season Allot. Acre	MAY 1-15 Loss	Draft	Total	Bal.	Ac
7	FURNESS J.T	1.70		418	13		13	405	1.70
13	RICKS, BOB	1.00	32	246	8	32	40	206	0
	HOLLEY WATER USERS	15.48		3,809	117		117	3690	0
70-75-99	JACKETT CANAL Co	18.90		5,419	111	533	644	2775	7.0
89	BYBEE, LLOYD	1.72		423	13	21	34	389	1.72
97	OWSLEY CANAL CO.	110.62		27,213	901	2238	3139	24074	96.0
98	LEVEL CANAL CO.	22.40	5	5,510	172	425	597	4913	1.9
99	OWSLEY MERRITT M.	7.80	38	1,919	59	514	573	1346	7.80
107	POTTER, JOSEPH B	1.00		246	8	14	22	224	1.00
129	YEARSLEY, Bill	2.60		640	20		20	620	0
	TOTALS	177.02	75	43,542	4472	6,317	7889	35,653	105.02

MUD LAKE OVER Beginning of Period	6.32
" " " END " "	5.89
LAKE CONTENTS Beginning of Period	27,557
" " END " "	25,234
Total DEPLETION IN PERIOD	2,323
CAMAS Creek IN Flow	—
TOTAL INFLOW TO LAKE FOR PERIOD	5,544
DRAFT FOR PERIOD	6,439
LOSS " "	1,428
LOSS PLUS DRAFT FOR PERIOD	7867
EVAPORATION	4,542 2.70
UNACCOUNTED FOR LOSS	-114
LAKE CONTENTS LESS WELL STORAGE	20,105

WELL WATER

	Flow	Loss	Use	Bal.
OWSLEY CANAL CO'S WELLS (Level Lake Wells / Bybee Wells)	1110			
	1598			4409
HOLLEY WATER USERS ASS'N WELLS (Ricks)			82	-32
JACKETT FRANK WELLS				
JACKETT CANAL CO. WELLS	413			413
OWSLEY, MERRITT M, WELLS				
BYBEE, LLOYD (2 CAS BYBEE WELLS)	60			60
RICKS, BOB (Holley Water Users Wells)				
FURNESS I. T. WELL				
INDEPENDENT WATER USERS ASS'N	(663)			
LEVEL CANAL CO. .3638	241		346	-105
OWSLEY, M.M. .2456	162	3		159
BURGRAFF & MRS. .1569	104	2		102
BEZOLD, LEWIS .0723	49	1		48
YEARSLEY Bill .0455	30		31	-1
FURNESS, J.T .0386	26			26
POTTER J. .0273	18			18
JAPHSON Ralph .0273	18			18
LEWIS GARNET .0227	15			15
LEWIS GARNET SUB				
OWSLEY M.M. "				
Level Canal Co. (Jackett Canal Co. Wells)				
WELL WATERS	5544	6	409	5129

DONALD W. SHENTON

3/25/00 BJ Conlon
Claim Mud Lake Storage
Doc Source WD 31
Microfiche 1961

MENTS & DISBURSEMENTS

COMPU

	MAY 1-15				MAY 16-31				JUNE 1-15				JUNE
	ALLOT	Loss	DRAFT	BAL	Loss	DRAFT	Total	BAL	Loss	DRAFT	Total	BAL	Loss DRAFT
	418	23	0	395	30	141	171	224	24	89	63	161	
	0	0	(32)	0								0	
	0	0	0	0								0	
	1722	95	533	1094	119	686	805	289		289		0	
	423	23	21	379	33	35	68	311	39	62	101	210	
	29,664	1,137	(5472) 6276	24,229	154	(4794) 13478	7571	2658		(5819) 5276	7353	0	
	550	25	525	0								0	
	1919	105	514	1300	104	251	355	945	125	357	482	463	
	246	14	14	218	17	22	39	179	19	92	61	118	
	0	0	0	0								0	
	35,572	4420	5605	18545	1355	7765	9120	9425	207	8547	8354	952	

					5.89					6.45				
					5.45					4.29				
					25,234					22,783				
					23,783					17,120				
					2,451					5,663				
					7,297					7047				
					7,855					10,632				
					1,893					2078				
					9,748					12,710				
					3,133					1,287				
					-240					791				
					11,096					2,742				
Flow	Loss	USE	BAL	Flow	Loss	USE	BAL	Flow	Loss					
1319			1319	1820										
1300			988	1820	16.8%	1170	12.8%							
353	10	165	146	285	34	137	320							
894			807	547	116	774	464							
380			380	279			659							
64			124	66			189							
(498)				(571)										
283	1	512	-385	307	-29	-385	24							
157	17		299	140	31	409	0							
101	11		192	90	20	262	0							
96	5		87	41	9		131							
29	1	13	14	26	2	48	-10							
85			51	22			73							
19			36	16			52							
18	2		34	16	4		46							
15	2		28	13	3		28							
				93										
7297	49	690	1465	7047	197	2485	1437							

Cancel Draft

Error Undetected

Date 3/25/00 Sig. A. Coulter
****
Claim Medi Lake Sheep
Doc Source Coll 31
Microfiche 1967

Date 3/28/00 Sig. R. Courtney

Claim Mud Lake Storage

Doc Source LAO 31

Microfilm 1961

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TS [illegible] COMPUTATION IN ACRE-FEET

FY-15

	April 16-30								June 1-15								June 16-30								July 1-15							
	Drift	Ba.	Loss	Use	Flow	Loss	Use	Bal.	Drift	Ba.	Flow	Loss	Use	Bal.	Drift	Ba.	Flow	Loss	Use	Bal.	Drift	Ba.	Flow	Loss	Use	Bal.	Drift	Ba.	Flow	Loss	Use	Bal.
	0	345	30	61					29	53	151	2	7	01	60		14	15	28	31											
	(32)	0									0				0					0											
	0	0									0				0					0											
	533	2294	119	686					287	289	0				0					0											
	21	314	23					39	62	101	210	3	150	153	51		12	21	33	18											
	1412	1,929	154						5778	7558	0				0					0											
	925	0									0				0					0											
	514	1800	104						357	783	763	7	209	216	247		56	191	247	0											
	14	218	17						19	42	61	118	2	8	10	108		24	36	60	48											
	2	0									0				0					0											
	3405	7315	1294					201	7147	8354	952	14	47	111	466		106	263	369	97											

	5189						645				429						3.05															
	545						4,29				3.95						2,80															
	10 2 22						22,783				17, 120						13 639															
	2 LAC						17,120				13, 657						10 880															
	1, 251						5,463				3 481						2759															
Carry Total																																
	7 237						2047				6763						6376															
	1 852						10,632				9961						4727															
	1, 873,						2078				283						3408															
	9, 145,						12,710				10,244						63-76															
Error Unaccount	2, 132						1,2875				1,584						1951															
	-240						791				1901						2077															
	11,096						2,742				2256						1887															

Flow 1550	Loss	Use	Bal. 9372	Flow 1620	Loss 16,89	Use 1170	Bal. 16,08	Flow 7812	Loss 222	Use 1359	Bal. 9115	Flow 5932	Loss 2861	Use 674	Bal. 5,460																	
353	10	165	146	285	24	137	270	101	5	52	814	162	90	70	356																	
394			807	347	116	774	464	639	72	981	154	618	204	296	5,69																	
386			380	279			659	235	12		930	258	240	120	512																	
64			129	60			124	60	3		24	60	181	52	311																	
(642				(571				815				1596																				
233	1	512	-385	207	-24	-385	201	224	5	133	287	178	87	167	281																	
157	17		299	140	21	408	4	127	1	1550	0	134	95	172	1,06																	
101	11		192	90	20	262	0	96	1	95	0	86	10	96	1,92																	
96	5		87	41	9		121	94	8	110	53	97	53	71	1,21																	
29	1	13	14	26	2	48	-10	31	10	15	5	95	14	76	1,86																	
25			51	22			73	24	1		96	81	69	76	1,62																	
19			36	16			52	17	1		68	15	46	76	1,44																	
18	2		34	16	4		46	17	4		62	15	116	76	1,29																	
15	2		28	13	3		38	14	-1		51	13	5	76	1,18																	
				43	2	41	0	321	2	317	0	960	471	319	1,68																	
1291	49	690	1,65	7042	1871	2485	4437	6769	269	[illegible]	373	6371	[illegible]	5525	[illegible]																	

Date 3/26/80 Sig. E. Coulter

Claim Mud Lake Storage

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TS [illegible] COMPUTATION IN ACRE-FEET

	April 1-15								June 1-15				June 16-30				July 1-15			
	Flow	Loss	USE	Bal.	Flow	Loss	USE	Bal.	Flow	Loss	USE	Bal.	Flow	Loss	USE	Bal.	Flow	Loss	USE	Bal.
	13	0	345		20				99	53	151	0	3		01	60	14	13	28	31
	0	(32)	0								0	0				0				0
	0	0	0								0	0				0				0
	25	533	1029	119	686					287	287	0				0				0
	28	21	214	23					39	61	101	210	3	150	159	51	12	21	33	18
	197	8576	4,929	1547						5378 4,5	7858	0				0				0
	25	425	0									0				0				0
	85	574	1300	104	2				125	357	482	163	7	209	216	247	56	191	247	0
	14	14	214	17					19	42	61	118	2	8	10	108	24	26	60	48
	0	0	0									0				0				0
	22	903	1815						201	7147	8354	952	14			466	106	263	369	97
				5.89						6.45				4.20				3.05		
				5.75						4.29				3.95				2.80		
				12,282						22,782				17,120				13,639		
				2,128						12,128				13,637				10,880		
				1,257						5,263				3,481				2759		
Carry Over				7,211						7047				6763				6376		
				3,354						10,632				9961				9727		
				1,873						2078				283				3408		
				9,348						12,710				10,244				6376		
Evap Underest				2,133						1,877				1,584				1351		
				-240						791				1301				2057		
				11,096						2,742				2256				1987		
	Flow	Loss	USE	Bal.	Flow	Loss	USE	Bal.	Flow	Loss	USE	Bal.	Flow	Loss	USE	Bal.	Flow	Loss	USE	Bal.
	1330			9875	1620	16.84	1178	10,81	3763	222	1354	9115	1972	2561	654	6452				
	253	10	165	146	285	24	137	270	101	5	52	814	162	90	40	3846				
	294			807	347	116	774	465	638	12	981	1571	618	106	85	4765				
	386			380	279			659	235	10		954	258	248	120	3336				
	69			125	60			184	60	3		246	60	61	60	3811				
	645				(571)				515				1596							
	233	1	512	-385	267	-24	-355	201	224	5	133	287	198	27	167	2187				
	157	17		299	140	31	408	8	151	1	150	0	139	45	119	1				
	101	11		192	90	20	262	0	96	1	95	0	36	10	26	0				
	46	5		89	41	9		121	44	2	110	53	39	17	21	33				
	29	1	13	74	26	2	48	-10	28	0	13	6	25	3	4	36				
	25			51	22			73	24	1		96	21	6	2	93				
	19			36	16			52	17	1		68	15	4	2	56				
	18	2		34	16	4		46	17	1		62	15	3	2	51				
	12	2		28	13	3		38	14	1		51	13	3	2	43				
					43	2	41	0	321	2	319	0	360	41	319	150				
	729	49	690	1,657	704	137	2415	1427	676	269	2,2	3,7	637	1302	5,4					

DONALD W. SHENTON
WATER MASTER DIST. NO. 65
DUBOIS, IDAHO

RECEIVED
JUN 12 1964
Department of Reclamation

1964 MUD LAKE ALLOTMENTS 8 DISB

OWNER	Right	April Draft	Season Allotment	MAY 1-15 Loss	Draft	Total	Balance	MAY 16-31 Loss	Draft	Total	Balance
FURNESS J.T.	1.70		418	14		14	404	22	66	88	316
RICKS BOB	1.00	80	246	8		8	238	11	57	68	170
HOLLY WATER USERS	15.48		3808	121		121	3687	165		165	3522
JACKETT CANAL CO.	13.90	120	3420	111		111	3309	160	558	718	2591
BYBEE DON	1.72		423	14		14	409	22	62	84	325
OWSLEY CANAL CO.	125.01	560	30,752	998		998	29754	1410	626 4386	6422	23332
LEVEL CANAL CO.	22.40	196	5510	176		176	5334	245	448	693	4641
SCHELL JACK	7.80		1919	62		62	1857	85	616	701	1156
POTTER JOE B.	1.00		246	8		8	238	11		11	227
OWSLEY M.M.	2.60	30	640	21		21	619	28	28	56	563
TOTALS	192.61	986	47,382	1533		1533	45849	2159	6847	9006	36843

	MAY 1-15	MAY 16-31
MUD LAKE GUAGE BEGINING OF PERIOD	677	726
" " " END " "	726	651
LAKE CONTENT BEGINING " "	30 079	33 172
" " END " "	33 172	29 738
TOTAL DEPLETION IN PERIOD	(3 093)	3 434
CAMAS CREEK INFLOW	2 750	4 250
TOTAL INFLOW TO LAKE FOR PERIOD	4 626	5 572
DRAFT FOR PERIOD	—	6 847
LOSS FOR PERIOD	1533	2159
LOSS PLUS DRAFT FOR PERIOD	1533	9006
EVAPORATION	725	691
UNACOUNTED FOR LOSS	808	1468
LAKE CONTENTS LESS WELL STORAGE	31 296	26 540

WELL WATER

	Flow	Loss	Use	Balance	Flow	Loss	Use	Balance
OWSLEY CANAL CO. (NORTH LAKE / BYBEES)	1426			1426	796			2222
HOLLY WATER USERS ASS'N								
JACKETT CANAL CO.	180			180	214			394
SCHELL JACK								
BYBEE DON 2 C.F.S. (BYBEE WELLS)	60			60	56			116
RICKS BOB (HOLLY WATER WELLS)								
FURNESS J.T.	60			60	64			124
INDEPENDENT WATER USERS ASS'N	(150)				(192)			
LEVELL CANAL CO. .5207	78			78	100			178
SCHELL JACK .2274	34			34	44			78
BEZOLD LEWIS .0723	11			11	14			25
OWSLEY M.M. .0909	14			14	18			32
FURNESS J.T. .0387	6			6	7			13
POTTER JOE .0273	4			4	5			9
LEWIS GARNET .0227	3			3	4			7
WELL WATER	1876			1876	1322			3198

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JUL 13 1964
Bureau of Reclamation

1964 MUD LAKE ADJUSTMENTS

OWNER	Right	Acre Feet Storage	Inches Storage	JUNE 1-15 Used	Drafts	Losses	Balance	JUNE 15-30 Used	Drafts	Losses	Balance
FURNESS J.T.	1.70		415	29		29	296	29		29	267
RICKS BOB	1.00	80	244	10	85	95	0				0
HOLLY WATER USERS	15.48		3805	218		218	3382	205		205	3177
JACKETT CANAL CO.	13.90	140	3420	186	686	872	1670	150	449	599	1071
BYBEE DON	1.72		423	27		27	207	26	46	72	235
OWSLEY CANAL CO.	125.01	560	30,752	1580	3748 3574	5372	18042	1909	3353 3858	5111	13931
LEVEL CANAL CO.	22.40	196	5510	292	210	502	4056	275	732	1007	3049
SCHELL JACK	7.80		1917	19	732	811	385	36	349	385	0
POTTER JOE B.	1.00		246	15	75	90	142	9		9	133
OWSLEY M.M.	2.60	30	640	36	42	78	469	34	57	91	378
TOTALS	192.61	986	47,382	2472	5622	8094	28749	2073	5435	7508	21241

MUD LAKE GUAGE BEGINING OF PERIOD	6.51		7.20	
" " " END " "	7.20		7.32	
LAKE CONTENT BEGINING " "	29,138		32816	
" " END " "	32,816		33568	
TOTAL DEPLETION IN PERIOD	(3,078)		(752)	
CAMAS CREEK INFLOW	9,500		6800	
TOTAL INFLOW TO LAKE FOR PERIOD	11,276		8306	
DRAFT FOR PERIOD	5,704		5475	
LOSS FOR PERIOD	2474		2079	
LOSS PLUS DRAFT FOR PERIOD	8198		7554	
EVAPORATION	1,916		1900	
UNACCOUNTED FOR LOSS	558		179	
LAKE CONTENTS LESS WELL STORAGE	27,946		27,238	

WELL WATER

	Used	Drafts	Other	Balance	Used	Drafts	Other	Balance
OWSLEY CANAL CO (NORTH LAKE BYBEES	1000			3222	750			3972
HOLLY WATER USERS ASS'N								
JACKETT CANAL CO	270			664	370			934
SCHELL JACK							40	(40)
BYBEE DON 2 C.F.S. (BYBEE WELLS)				116				116
RICKS BOB (HOLLY WATER WELLS)	128		102	26		2		24
FURNESS J.T.	18			142	18			160
INDEPENDENT WATER USERS ASS'N	(360)				(468)			
LEVELL CANAL CO. .5207	187			365	243			608
SCHELL JACK .2274	82			160	106			266
BEZOLD LEWIS .0723	26	2		49	34	4		79
OWSLEY M.M. .0909	33			65	43			108
FURNESS J.T. .0387	14			27	18			45
POTTER JOE .0273	10			19	13			32
LEWIS GARNET .0227	8			15	11			26
WELL WATER	1776	2	102	4870	1502	6	40	6330

Date 7/8/64 Signed R. Carter
Claim Mud Lake Storage
Doc Source W.R. 31 Miscellaneous 1964

1964 MUD LAKE ALLOTMENTS & DIS

OWNER	Right	Acres	Acre Feet	Aug. 1–15 Flow	Seepage	Waste	Balance	Aug. 16–31 Flow	Seepage	Waste	Balance
FURNESS J. T.	1.70		415	7	44	51	0				0
RICKS BOB	1.00	80	246				0				0
HOLLY WATER USERS	13.47		3305	217	1000	1217	1152	98		98	1054
JACKETT CANAL CO.	13.90	120	3420				0				0
BYBEE DON	1.72		423	12		12	0				0
OWSLEY CANAL CO.	125.0	560	30,752				0				0
LEVEL CANAL CO.	22.40	196	5510	29	398	427	0				0
SCHELL JACK	7.80		1919				0				0
POTTER JOE B.	1.00		246	19		19	7	7		7	0
OWSLEY M. M.	2.60	90	640	22		22	0				0
TOTALS	192.61	986	49,381	306	1442	1748	1159	105		105	1054

	Aug. 1–15	Aug. 16–31
MUD LAKE GUAGE BEGINING OF PERIOD	4.56	3.52
" " " END " "	3.52	3.94
LAKE CONTENT BEGINING " "	18,455	13,725
" " END " "	13,725	15,542
TOTAL DEPLETION IN PERIOD	4,730	(1,817)
CAMAS CREEK INFLOW	-	-
TOTAL INFLOW TO LAKE FOR PERIOD	6,252	6,680
DRAFT FOR PERIOD	7,666	3,466
LOSS FOR PERIOD	3,316	1,397
LOSS PLUS DRAFT FOR PERIOD	10,982	4,863
EVAPORATION	950	560
UNACOUNTED FOR LOSS	2366	837
LAKE CONTENTS LESS WELL STORAGE	1856	1751

WELL WATER

	Flow	Seepage	Waste	Balance	Flow	Seepage	Waste	Balance
OWSLEY CANAL CO. (NORTH LAKE BYBEES)	2820 / 1830	2305	446 / 5712	8382	2852 / 952	921	270 / 1966	10029
HOLLY WATER USERS ASS'N								
JACKETT CANAL CO.	510	80	598	80	544	30	280	314
SCHELL JACK	384	77	309	72	416	57	431	0
BYBEE DON 2 C.F.S. (BYBEE WELLS)	60	25	74	153	64	16	38	163
RICKS BOB (HOLLY WATER WELLS)	1000	121	85	854		47		507
FURNESS J. T.	Culey							
INDEPENDENT WATER USERS ASS'N	(640				(852			
LEVELL CANAL CO. .5207	337	311		1570	444	153	304	1669
SCHELL JACK .2274	147			292	194		177	309
BEZOLD LEWIS .0723	47	2		49	63	7		104
OWSLEY M.M. .0909	59	29		302	77	29		350
FURNESS J.T. .0387	25	47		255	33	23		245
POTTER JOE .0273	18			100	23	3		120
LEWIS GARNET .0227	15	10		60	19	6		73
WELL WATER	7252	3010	7224	11869	6689	1592	3466	15791

Date 3/28/00 Sig. D. Carter
Claim Mud Lake Storage
Doc Source Misc Files
Vol 31 1964

SCANNED NOV 25 2002

1964 MUD LAKE ALLOTMENTS 8 DIS

OWNER	Right	Draft	Loss	Sept 1 to 15 Loss	Draft	Total	Balance	Sept 16 to 30 Loss	Draft	Total	Balance
FURNESS J. T.	1.70		418				0				0
RICKS BOB	1.00	80	246				0				0
HOLLY WATER USERS	15.48		3808	37		37	999	42		42	957
JACKETT CANAL CO.	13.90	120	3420				0				0
BYBEE DON	1.72		423				0				0
OWSLEY CANAL CO.	125.01	560	30,752				0				0
LEVEL CANAL CO.	22.40	196	5510				0				0
SCHELL JAC	9.80		1919				0				0
POTTER JOE B.	1.00		246				0				0
OWSLEY M M	2.62	30	640				0				0
							0				0
TOTALS	192.61	986	47,382	37		37	999	42		42	957

	Sept 1 to 15	Sept 16 to 30
MUD LAKE GUAGE BEGINING OF PERIOD	394	4,64
" " " END " "	4.64	425
LAKE CONTENT BEGINING " "	15,542	18665
" " END " "	18,665	16,938
TOTAL DEPLETION IN PERIOD	(3,123)	1,727
CAMAS CREEK INFLOW	—	—
TOTAL INFLOW TO LAKE FOR PERIOD	6,510	4372
DRAFT FOR PERIOD	2,782	5300
LOSS FOR PERIOD	605	799
LOSS PLUS DRAFT FOR PERIOD	3,387	6099
EVAPORATION	925	800
UNACOUNTED FOR LOSS	(320)	(1)
LAKE CONTENTS LESS WELLS TO RAGE	2789	2747

WELL WATER

	Flow	Loss	Use	Balance	Flow	Loss	Use	Balance
OWSLEY CANAL CO. NORTH LAKE / BYBEES	2820 / 1830	404	2258	11,017	1880 / 1830	289	4444	9744
HOLLY WATER USERS ASS'N								
JACKETT CANAL CO	510	20		798		33	48	717
SCHELL JACK	480	-		480	224	-		704
BYBEE DON 2 C.F.S. BYBEE WELLS)	60	6	30	173	60	9		224
RICKS BOB (HOLLY WATER WELLS)		18		480		20	180	280
FURNESS J. T.								
INDEPENDENT WATER USERS ASS'N	(810)				(378)			
LEVELL CANAL CO. .5207	422	62	350	1540	197	69	280	1088
SCHELL JACK .2274	184	23	144	318	86	40		364
BEZOLD LEWIS .0723	59	5		158	27	7		17[illegible]
OWSLEY M.M. .0909	74	14		405	34	18	236	[illegible]
FURNESS J.T. .0387	31	9		282	15	12	12	[illegible]
POTTER JOE .0273	22	4		137	10	6		[illegible]
LEWIS GARNET .0227	18	3		88	9	4		[illegible]
WELL WATER	6510	568	2782	15,876	4372	757	53[illegible]	

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Comparison of Loss accrued to Natural Flow storage v. loss accrued to Well Storage - 1961
(Items in blue from data, other items calculated or copied.

Start of Period	1-May (Allocation	16-May	1-Jun	16-Jun	1-Jul
Contents Begin	27557 re-calc	25234	22783	17120	13639
Contents End	25234 on May 15)	22783	17120	13639	10880
-1.0 Contents	1790	1790	1790	1790	1790
Avail Begin	25767	23444	20993	15330	11849
Avail End	23444	20993	15330	11849	9090
Content Less Well S	20105	11096	2742	2256	1887
Allotment Begin	43842	18315	9306	952	466
Allotment End	36283	9306	952	466	97
Well Begin	0	5129	11687	14378	11383
Well End	5129	11687	14378	11383	2523
Loss	1428	1893	2078	283	3408
Natural Flow Loss	1432	1844	207	14	106
Well Loss	6	49	1871	269	3302
Math Checks:					
Begin Avail	25767	23444	20993	15330	11849
Sum of Balances	43842	23444	20993	15330	11849
Estimated Inflows	18075	0	0	0	0
Loss	1428	1893	2078	283	3408
Allocated Losses	1438	1893	2078	283	3408
Difference	-10	0	0	0	0
Analysis					
Beginning Avail	25767	23444	20993	15330	11849
Allotment %	170%	78%	44%	6%	4%
Well %	0%	22%	56%	94%	96%
Total allocated	170%	100%	100%	100%	100%
Ending Avail	23444	20993	15330	11849	9090
Allotment %	155%	44%	6%	4%	1%
Well %	20%	51%	84%	83%	23%
Total allocated	175%	96%	90%	87%	24%
Content less Well	20105	11096		2256	1887
Avail Portion	18315	9306		466	97
Well Storage	5129	11687		11383	2523
Allotment %	78.1%	44.3%		3.9%	3.7%
Well %	21.9%	55.7%		96.1%	96.3%
Loss	1428	1893	2078	283	3408
Allotment %	100.3%	97.4%	10.0%	4.9%	3.1%
Well %	0.4%	2.6%	90.0%	95.1%	96.9%
% of Loss/% of Stor					
Allotment	0.65	2.20	1.60	1.26	2.91
Well	0.02	0.05	1.07	1.14	4.18
% of Loss/% of Cont					
Allotment	1.28	2.20		1.26	0.84
Well	0.02	0.05		0.99	1.01

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Comparison of Loss accrued to Natural Flow storage v. loss accrued to Well Storage - 1964
(Items in blue from data, other items calculated or copied.

Start of Period	1-Jun	16-Jun	1-Aug	16-Aug	1-Sep	16-Sep
Contents Begin	29738	32816	18455	13725	15542	18665
Contents End	32816	33568	13725	15542	18665	16938
-1.0 Contents	1790	1790	1790	1790	1790	1790
Avail Begin	27948	31026	16665	11935	13752	16875
Avail End	31026	31778	11935	13752	16875	15148
Content Less Well S	27946	27238	1856	1751	2789	2747
Allotment Begin	36843	28749	2907	1159	1054	999
Allotment End	28749	21241	1159	1054	999	957
Well Begin	3198	4870	14851	11869	13791	15876
Well End	4870	6330	11869	13791	15876	14191
Loss	2474	2079	3316	1397	605	799
Natural Flow Loss	2472	2073	306	105	37	42
Well Loss	2	6	3010	1292	568	757
Math Checks:						
Begin Avail	27948	31026	16665	11935	13752	16875
Sum of Balances	40041	33619	17758	13028	14845	16875
Estimated Inflows	12093	2593	1093	1093	1093	0
Loss	2474	2079	3316	1397	605	799
Allocated Losses	2474	2079	3316	1397	605	799
Difference	0	0	0	0	0	0
Analysis						
Beginning Avail	27948	31026	16665	11935	13752	16875
Allotment %	132%	93%	17%	10%	8%	6%
Well %	11%	16%	89%	99%	100%	94%
Total allocated	143%	108%	107%	109%	108%	100%
Ending Avail	31026	31778	11935	13752	16875	15148
Allotment %	93%	67%	10%	8%	6%	6%
Well %	15%	19%	86%	89%	85%	84%
Total allocated	108%	86%	96%	96%	91%	90%
Content less Well	27946	27238	1856	1751	2789	2747
Avail Portion	26156	25448	66	-39	999	957
Well Storage	4870	6330	11869	13791	15876	14191
Allotment %	84.3%	80.1%	0.6%	-0.3%	5.9%	6.3%
Well %	15.7%	19.9%	99.4%	100.3%	94.1%	93.7%
Loss	2474	2079	3316	1397	605	799
Allotment %	99.9%	99.7%	9.2%	7.5%	6.1%	5.3%
Well %	0.1%	0.3%	90.8%	92.5%	93.9%	94.7%

% of Loss/% of Stor

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Allotment	1.08	1.49	0.95	0.98	1.03	0.83
Well	0.01	0.02	1.05	1.04	1.10	1.13
% of Loss/% of Cont						
Allotment	1.19	1.25	16.69	-26.50	1.03	0.83
Well	0.01	0.01	0.91	0.92	1.00	1.01

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Analysis of Allotment of Natural Flow Rights
(Items in blue from data; other items calculated or copied from blue)

Right	User	I. "Season Allotment" 1961 CFS Decree	April Draft	Season Allotment	II. May 1-15 Usage Loss	Draft	Total	Balance	III. May 15 Allotment Allot	Loss	Draft	Bal	Calc 1.
7	Furness JT	1.70		418	13		13	405	418	23	0	395	395
13	Ricks, Bob	1.00	32	246	8	32	40	206	0	0	32	0	-32
	Holly Water Users	15.48		3808	117		117	3691	0	0	0	0	0
70-75-99	Jackett Canal Co	13.40		3419	111	533	644	2775	1722	95	533	1094	1094
89	Bybee Lloyd	1.72		423	13	21	34	389	423	23	21	379	379
97	Owsley Canal Co	110.62		27213	901	4608	5509	21714	20664	1137	4598	14929	14929
38 (88?)	Level Canal Co.	22.40	5	5510	172	425	597	4913	450	25	425	0	0
99	Owsley Merrit M.	7.80	38	1919	59	514	575	1346	1919	105	514	1300	1300
107	Potter Joseph B	1.00		246	8	14	22	224	246	14	14	218	218
129	Yearsley Bill	2.60		640	20		20	620	0	0	0	0	0
	Totals	178.22	75	43842	1432	6137	7559	36287	25842	1422	6137	18315	18283

IV. "Full" Allotments

Right	User	CFS Decree	CFS * 2 * 123 days
7	Furness JT	1.70	418.2
13	Ricks, Bob	1.00	246
	Holly Water Users	15.48	3808.08
70-75-99	Jackett Canal Co	13.90	3419.4
89	Bybee Lloyd	1.72	423.12
97	Owsley Canal Co	110.62	27212.52
38 (88?)	Level Canal Co.	22.40	5510.4
99	Owsley Merrit M.	7.80	1918.8
107	Potter Joseph B	1.00	246
129	Yearsley Bill	2.60	639.6
	Totals	178.22	43842.12

V. Calculation of Allotment Amount

May 1 Contents	27557
Suave Estimate	18000
-1.0 Content	1790
Available	43767
Allocated	43842
Apparent Shenton Estimate	18075
May 15 Contents	25234
Well Balance	5129
Contents Less Well	20105
Suave Estimate	18000
-1.0 Content	1790
Available	36315
Allocated	18315
Apparent Shenton Estimate	0

VI. Percent of Full Allotments Allocated May 15

100.0%
0.0%
0.0%
50.4%
100.0%
75.9%
8.2%
100.0%
100.0%
0.0%

VI: Allocation of "Natural Flow" Loss - May 1- 15

Right	User	CFS Decree	May 1 Allotment	Loss May 1-15	% of Allotment
7	Furness JT	1.70	418	13	3.11%
13	Ricks, Bob	1.00	246	8	3.25%
	Holly Water Users	15.48	3808	117	3.07%
70-75-99	Jackett Canal Co	13.90	3419	111	3.25%
89	Bybee Lloyd	1.72	423	13	3.07%
97	Owsley Canal Co	110.62	27213	901	3.31%
38 (88?)	Level Canal Co.	22.40	5510	172	3.12%
99	Owsley Merrit M.	7.80	1919	59	3.07%
107	Potter Joseph B	1.00	246	8	3.25%
129	Yearsley Bill	2.60	640	20	3.13%
	Totals	178.22	43842	1432	3.27%

VII. Allocation of "Natural Flow" Loss - May 16-31

May 15 Allotment	Loss May 16-31	% of Allotment
418	23	5.50%
0	0	
0	0	
1722	95	5.52%
423	23	5.44%
20664	1137	5.50%
450	25	5.56%
1919	105	5.47%
246	14	5.69%
0	0	
25842	1422	5.50%

Section III: Calc 1 = May 15 "Allot" - (May 15 "Loss" + May 15 "Draft")

Section V: Available = Contents + Suave Estimate
Allocated = Sum of allocations from report
Apparent Shenton Estimate =
18000 - (Available - Allocated)

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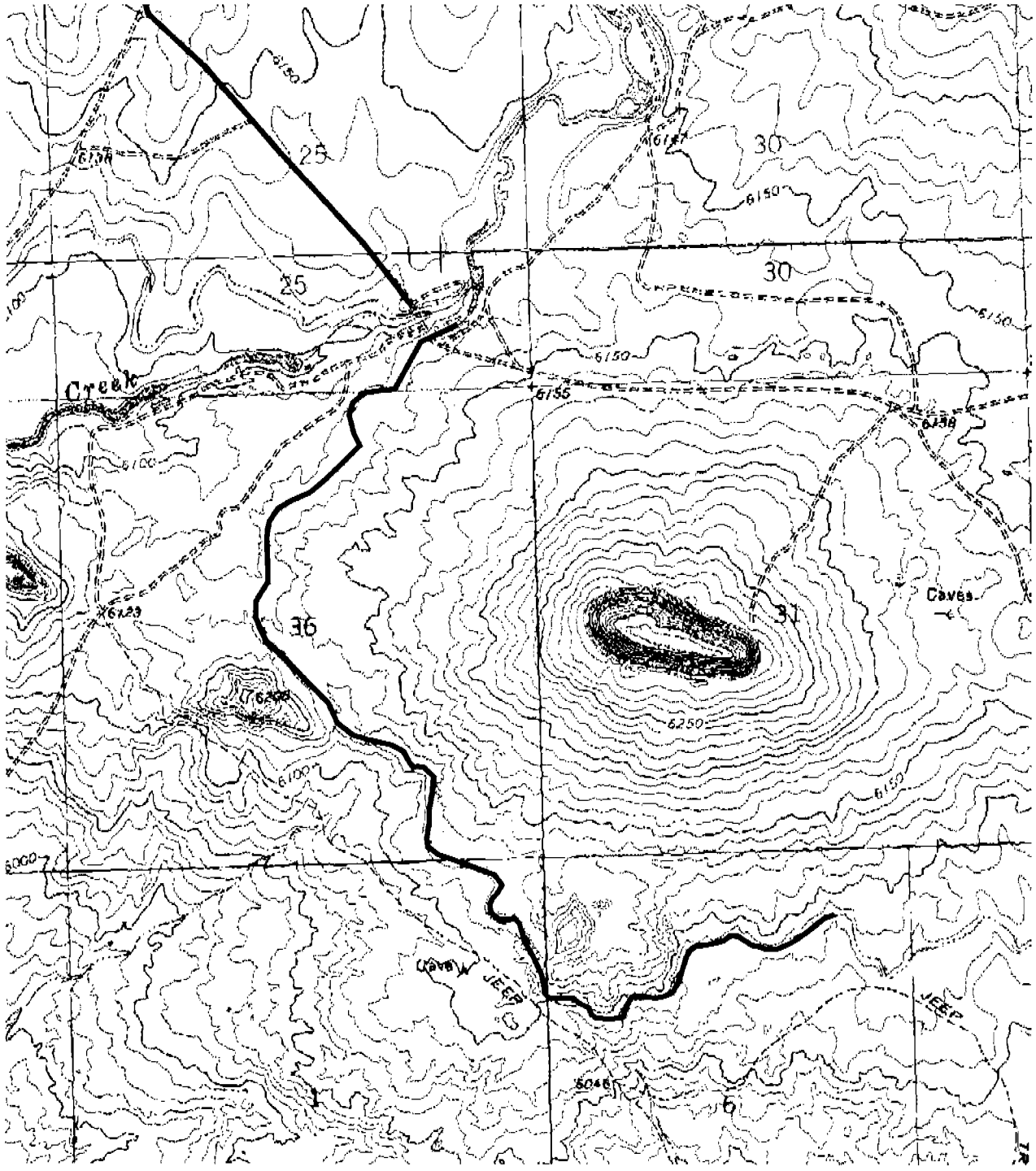
Lone Tree Diversion - Basin 31
Township 11N Range 38E and 39E



Diversion Channel
Access Road

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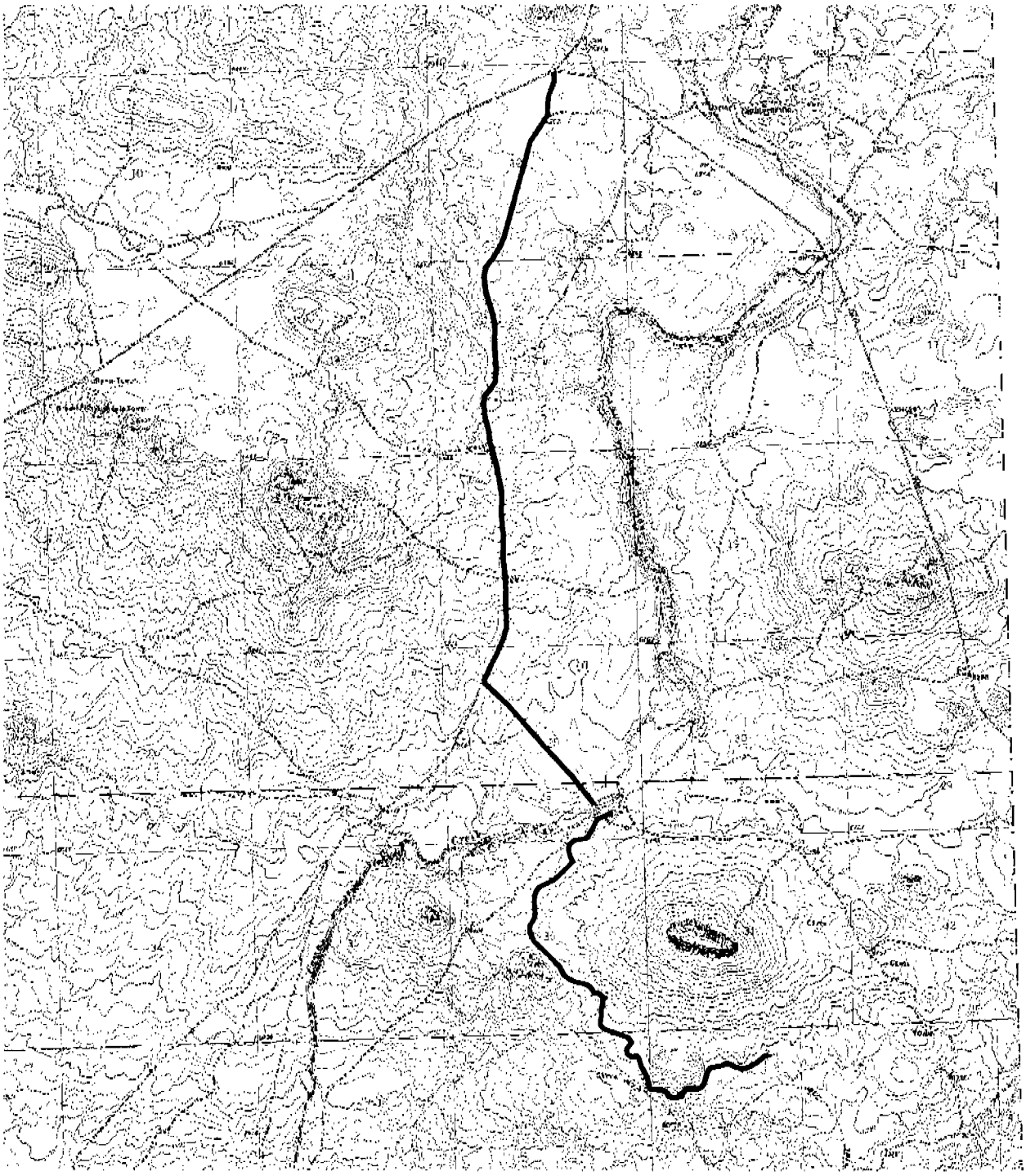
Prepared by Bryce A. Contor from USGS Base Maps U93 and V43 3/22/2000
Location of access road and channel enhanced per interview with
Garth Soderquist of Mud Lake Water Users

Lone Tree Diversion - Basin 31
Township 11N Range 38E and 39E



Diversion Channel
Access Road

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Prepared by Bryce A. Contor from USGS Base Maps U93 and V43 3/22/2000
Location of access road and channel enhanced per interview with
Garth Soderquist of Mud Lake Water Users

DRAFT

To: Mud Lake Storage File
Fr: Bryce Contor
Date: 3/22/2000

Re: Meeting w/ Garth Soderquist and Greg Shenton

5000 acre ft Holley storage right - Right was to be pumped into lake, but Holley didn't have a diversion from the lake. Therefore this right wasn't used until the merger. For Holley to get water, Camas has flow. Since the merger, Holley storage right has been used in the same manner as the early pumping plan, when needed. Any use of Holley storage right is not included in the "early pumping."

All private users on lake are also members of Independent:

Level Canal
- Parker
- Schmitt

Dobson
Potter (Burtenshaw purchase?)
Burtenshaw
Shuldberg
Bezold used to be, transferred to private well, sold to Holm. no longer part of Independent.

These users have private creek water rights, but the well water rights are owned by Independent. However, Dobson has a private well that can pump into the lake, it is accounted the same as the company wells. It has been used for early pumping, as well.

Per 1974 affidavit from Don Shenton, at one time Lunholms had a well that delivered and exchanged water to the lake. Per Greg Shenton, this is no longer currently practiced.

Early in the spring, watermaster and users assess lake level and snowpack. If decision is made that early pumping is needed, watermaster proposes a pumping plan which roughly requires pumping in the same percentage that water will be used from the lake. This is regulated by knowledge of pumping capacity and start times are adjusted accordingly. Some years may pump 10 days, some years 30 days, some years not at all. Have started as early as March 4. Regular season allotments begin May 1. Early water pumped is credited to whoever pumps it. Allocation is by acres.

Artesian wells are flowing in 2000. Artesian basin is lower than Camas Creek. If Camas is running full, atesian basin has to be closed or artesian basin will drain camas water to aquifer.

Artesian basin is by Big Lee pumps. Artesian wells are in bottom of basin. When basin fills, head of water stops flow. Flow stops immediately when wells are started.

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Any artesian flow is accounted to Mud Lake allotments as natural flow. Water pumped is owned by the user who pumps. All users are charged loss.

Mud Lake allotment: Every 15 days report inflows, drafts, losses.

I asked Greg Shenton about Independent "Runoff" right. Greg has not finished looking in to this right. Possibly is artesian contribution in Independent Ditch, per Garth?

Irrigation Season -

Some April drafts, not every year. Most of the time hold off 'till May 1. End of irrigation season Oct 31. Resolutions to charge April usage to May allotment. Greg recommends at least April 15, April 1 would be better for a windy spring. May 1 works better for canal company, to allow spring maintenance.

Ownership of carryover water reverts to allocation system as if it had been natural flow, per decree. During the season, well owners have an allotment balance and a well water balance. There is no individual carryover of ether allotment water or well water.

All users have both storage allotments and pumps. In 1999, Independent had enough creek water supplied that they did not pump. No early pumping was done in 1999, but Mud Lake Water Users pumped after May 1.

Anything pumped is credited to well water balance. However, prior to May 1 there is very little use so balance accumulates. After May 1, pumped water is still credited to well water balance but users are also withdrawing, so balances accumulate very slowly if at all.

Losses are assessed per share of stored volume. Can run as high as 25% per 15 days.

Sometimes early pumping is used, not because storage is needed but because prior to peak of Camas inflow, water level in lake may not be high enough to allow diversion.

Most users have well capacity close to decreed or licensed diversion rates.

Owsley: 1991 peak year of 5 year average, Owsley stored 26,000 af for about 21,000 acres.

Independent. 1996 peak year of 5 year average, Independent stored 6,012 af for about 4600 acres.

Because of the merger, storage of well water is an issue for only three entities: Independent, Mud Lake Water Users, and Dobson. The storage claims need to be large enough to accommodate the largest likely "well storage" component of the Mud Lake

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allotment accounting system. Likely the highest balance will come in the spring on a year when there was a long early-pumping season.

Generally the early pumping is credited to the individual pumpers, but one time when only ten or eleven days pumping were needed (1995) the users voted to just let the water be accounted as natural flow. Agreement was everyone would pump to full capacity for ten days.

There have been years that there has been no creek contribution to the lake; therefore the only available water has been well water. In such a year, the practice would be to pump to 7 1/2 - 8 feet (Greg will get us a better number from records) prior to May 1. Reasonably the storage component of the water rights ought to be enough to allow this practice. See attached USGS rating table. The lowest Garth remembers initial gage height is -1.0. The lowest Greg remembers is 1.5.

Greg's formula for calculating allocation volume on Mud Lake is:

cfs * 2 * 123 days = acre feet allocation of right

This formula is adequate to use for calculating storage volume for natural flow rights.

Season of use for storage from surface sources should be Nov 1 to Oct 31. This is per resolutions that late irrigation is charged against following year's allotment. Note that per Suave decree, surface storage is allocated per allotment system.

There is some confusing language in the Suave decree regarding curtailment of junior rights when allocation is recomputed. Per Greg, this has not been historical practice.

Historical practice has been to make a more realistic and conservative initial estimate, to avoid over-allocation. Once creek quits running, final allocation is calculated. Following final allocation, stored rights are delivered per allocation, regardless of priority date.

Because of resolutions regarding no carryover, irrigation storage for wells should be March 1 to October 31. Season of use from storage should parallel the irrigation season.

Season of use for irrigation from allotment storage should parallel the irrigation season for diverted flow.

Greg will supply highest

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Attachments to memo of
3/22/2000 meeting w/
Garth Sudegeest /
Greg Shenton

MUD LAKE RESERVOIR CAPACITY TABLE
DATA FROM USGS AND WATERMASTER

GAGE FEET	VOLUME ACRE FEET	SOURCE
-3.0	111	WATERMASTER
-2.0	587	WATERMASTER
-1.0	1790	WATERMASTER-NORM MIN
0.0	3410	WATERMASTER
1.0	5460	WATERMASTER - USGS
1.5	6714	USGS
2.0	8150	USGS
2.5	9794	USGS
3.0	11600	USGS
3.5	13640	USGS
4.0	15810	USGS
4.5	18090	USGS
5.0	20510	USGS
5.5	23040	USGS
6.0	25740	USGS
6.5	28590	USGS
7.0	31580	USGS
7.5	34700	USGS
8.0	37930	USGS
8.5	41270	USGS
9.0	44730	USGS
9.5	48950	USGS
10.0	54033	INTERPOLATED USGS (54450)
10.5	59117	INTERPOLATED USGS (60000)
11.0	64200	USGS

Date 3/22/00 Sig. L Coulter

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Claim Mud Lake Storage

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INDEPENDENT WATER USERS EARLY PUMPING REPORT

	YEAR	DATE PUMPING STARTED	ACRE FEET PUMPED
80.	1989	APRIL 8TH – 30TH	3,020 A.F.
51	1990	MARCH 22	913 A.F
		APRIL	2,580 A.F.
		TOTAL E/P	3,493 A.F.
55	1991	MARCH 6TH	2,272 A.F.
		APRIL	2,270 A.F.
		TOTAL E/P	4,542 A.F.
69	1992	MARCH	1,928 A.F.
		APRIL	2,160 A.F.
		TOTAL E/P	4,094 A.F.
35 (3 39)	1993	MARCH	880 A.F.
		APRIL	2,368 A.F.
		TOTAL E/P	3,248 A.F.
57	1994	MARCH 10TH	2,342 A.F.
		APRIL	2,698 A.F.
		TOTAL E/P	5,040 A.F.
94. Dropped	1995	APRIL 17TH – 28TH	1,335 A.F. estimated flow
	1996	MARCH	1,870 A.F.
		APRIL	4,142 A.F.
		TOTAL E/P	6,012 A.F.

OF THE 8 YEARS ABOVE, THE MOST EARLY PUMPED WAS IN 1996 AT 6,012 A.F.
THE LEAST EARLY PUMPPING WAS IN 1995 AT 1,335 A.F.

1990 TO 1994 FIVE YEAR AVERAGE

	FIVE YEAR TOTAL	FIVE YEAR AVERAGE
MARCH	8,335 A.F.	1,667 A.F.
APRIL	12,076 A.F.	2,415 A.F.
SEASON	20,411 A.F.	4,082 A.F.

High. 65 C.F.S.
74 CFS
9-1-97

Date 3/22/00 Sig. B. Conlon
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OWSLEY & JACKETT EARLY PUMPING REPORT

LOCATION		MONTH	A.F. MEASURED
		YEAR 1989	
N.L		APRIL	3,380 A.F.
BYBEE'S		APRIL	3,300 A.F.
J.C.C.		APRIL	1,300 A.F.
	TOTAL		7,980 A.F.
		1990	
N.L.		MARCH 22	2,382 A.F.
BYBEE'S		MARCH 18	3,565 A.F.
J.C.C.		MARCH	0 A.F.
	TOTAL		5,947 A.F.
N.L.		APRIL	5,634 A.F.
BYBEE'S		APRIL	5,730 A.F.
J.C.C.		APRIL	3,090 A.F.
	TOTAL		14,454 A.F.
	TOTAL OF BOTH MARCH & APRIL		20,401 A.F.
		1991	
N.L.		MARCH 11	4,580 A.F.
BYBEE'S		MARCH 10	4,902 A.F.
J.C.C.		MARCH 13	1,140 A.F.
	TOTAL		10,622 A.F.
N.L.		APRIL	6,612 A.F.
BYBEE'S		APRIL	6,776 A.F.
J.C.C.		APRIL	2,384 A.F.
	TOTAL		15,772 A.F.
	TOTAL OF BOTH MARCH & APRIL		26,394 A.F.
		1992	
N.L.		MARCH	1,540 A.F.
BYBEE'S		MARCH	2,048 A.F.
J.C.C.		MARCH	142 A.F.
	TOTAL		3,730 A.F.
N.L.		APRIL	6,900 A.F.
BYBEE'S		APRIL	9,120 A.F.
J.C.C.		APRIL	1,968 A.F.
	TOTAL		17,988 A.F.
	TOTAL OF BOTH MARCH & APRIL		21,718 A.F.

Date 3/22/00 Sig. R. Coulton

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		1993	
N.L.		MARCH	1,078 A.F.
BYBEE'S		MARCH	192 A.F.
J.C.C.		MARCH	168 A.F.
	TOTAL		1,438 A.F.
N.L.		APRIL	6,730 A.F.
BYBEE'S		APRIL	6,836 A.F.
J.C.C.		APRIL	2,712 A.F.
	TOTAL		16,278 A.F.
	TOTAL OF BOTH MARCH & APRIL		17,716 A.F.
		1994	
N.L.		MARCH 10	1,516 A.F.
BYBEE'S		MARCH	3,576 A.F.
J.C.C.		MARCH	1,380 A.F.
	TOTAL		6,472 A.F.
N.L.		APRIL	6,674 A.F.
BYBEE'S		APRIL	8,644 A.F.
J.C.C.		APRIL	2,155 A.F.
	TOTAL		17,473 A.F.
	TOTAL OF BOTH MARCH & APRIL		23,945 A.F.
		1995	
N.L. & BYBEE'S		APRIL 17-28	6,787 A.F.
		1996	
N.L.		MARCH	1,800 A.F.
BYBEE'S		MARCH	2,006 A.F.
J.C.C.		MARCH	0 A.F.
	TOTAL		3,806 A.F.
N.L.		APRIL	3,766 A.F.
BYBEE'S		APRIL	4,472 A.F.
J.C.C.		APRIL	0 A.F.
	TOTAL		8,238 A.F.
	TOTAL OF BOTH MARCH & APRIL		12,044 A.F.

OF THE 8 YEARS ABOVE,

1. **THE MOST WATER PUMPED FOR EARLY PUMPING, WAS IN 1991 WHICH WAS 26,394 A.F.**
2. **THE LEAST WATER PUMPED FOR EARLY PUMPING, WAS IN 1995 WHICH WAS 6,787 A.F.**

1990 TO 1994 FIVE YEAR AVERAGE

	FIVE YEAR TOTAL	FIVE YEAR AVERAGE
MARCH	28,209 A.F.	5,642 A.F.
APRIL	81,965 A.F.	16,393 A.F.
SEASON	110,174 A.F.	22,035 A.F.

Date 3/22/05 Sig. D. Coulter

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Claim Mud Lake Storage

Doc Source Watermaster

WD 31

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MUD LAKE USERS CANAL COMPANIES

Pre-season Pumping Determination Meeting
Dubois, Idaho
March 12, 1996

Those Present:

Name	Representing
Todd Simmons	Jackett
Edgar Green	Jackett
Gerald Messerli	Owsley
Keith Shuldberg	Independent
Van Burtenshaw	Independent-Holly
Garth Soderquist	Owsley
LaMoyne Barney	Independent-Holly
Don Shenton	Watermaster
Greg Shenton	Deputy Watermaster
Keith A. Bramwell	Secretary
Keith C. Wilson	IDWR
Steve Ball	IDWR

The meeting was called to order at 12:10 p.m.

Greg Shenton reviewed his report on the water available in Mud Lake and the early pumping proposal for 1996. The then reviewed three strategies to achieve the amount of water needed.

Don Shenton said that the snow/water content averages only 69%, which is quite low. With the current situation, the proposed 6.5 level may be short but the 7.5 level could be excessive if we get a lot of spring rain.

Don asked about the water disbursement with the merger between Independent and Holly, and Owsley and Jacket. It was said that the methods of water disbursement in the past will not change with the mergers.

Garth said that there is a break on the Independent about 1/2 mile from the well on the refuge. He recommended that it be filled in.

Garth asked about water currently in the Independent from subbing from the lava's. Greg said that it is true that water is coming up through the lava's in the canal. He said that the rocks will need to be sealed because when the water table drops, the water will seep out of the canal. Bentenite was suggested as a sealant. It was asked if the bentenite would be forced out in future years with subbing like this one. Don said that if the bentenite was firmly packed in the rocks that he doubted if it would be forced out.

Gerald Messerli moved that the 7 G.H. proposal be accepted. Garth Soderquist seconded the motion and the motion passed unanimously.

Putting in a pump on the Mud Lake levy was discussed. The cost of getting water into the canal would be significantly reduced. The refuge may have some concerns about it but the land and the water belong to the canal companies so no one can prevent it from being done.

Keith Shuldberg moved to adjourn the meeting. Garth Soderquist seconded the motion and the motion passed. The meeting was adjourned at 12:50 p.m.

Submitted by Keith A. Bramwell
Keith A. Bramwell
Secretary, Dist. 31, 32-C

Date 3/22/00 Sig. B. Coulter
****
Claim Mud Lake Storage
Doc Source Watermaster
WD 31

SCANNED
NOV 25 2002

MUD LAKE PRESEASON PUMPING AGREEMENT

March 9, 1995

At a meeting held in Mud Lake, Idaho, March 9, 1995, a preseason pumping agreement was adopted for the 1995 irrigation season.

In attendance at this meeting, representatives of all the water user groups of Mud Lake were in attendance plus private water users Burtenshaw Bros. Water user groups represented were the following: Owsley Canal Co., Jackett Canal Co., Independent Water Users, Level Canal Co., and Holley Water Users.

Purpose of the meeting was to decide what lake level would be needed to provide enough water for the first heavy drafts of water for irrigation on May 1st, and until Camas Creek and its tributaries flowed enough water into Mud Lake to sustain irrigation thereafter.

A lot of discussion was had on a desired water level and the risk of over pumping and creating a hazard but still getting enough to sustain early pumping. It was decided to start pumping at as late a date as possible and still reach a 4.5 G.H. by May 1, 1995. It was further decided to reduce this pumping level if stormy conditions existed and demand for early irrigation demand appeared to be low. A motion was made by Andy Dobson and second by Garth Soderquist for the 4.5 G.H. level.

Discussion was then had on the method of pumping needed to get the best and fairest desired lake level. Two methods discussed was by getting credit to each pumper the amount he pumped or by all pumpers pumping full capacity for the last 17 days of April and allotting the waters strictly by the decree. It was decided to use the decree method and allot lake capacity only without credit by pumping. This method of allotment was made by and motioned by Andy Dobson and second by Garth Soderquist.

Both motions were unanimous and an aye vote cast by every water user.

Garth Soderquist 3/14/95
Owsley Canal Co. President

Andy D[illegible]
Ind. User Assn. President

Edgar Green 3/14/95
Jackett Canal Co. President

Carl Hoggan 3-14-95
Holley Water User President

Don Parker 3-14/95
Level Canal Co. President

Keith Shuldberg 3-14-95
Keith Shuldberg

David Burtenshaw 3-14-95
Burtenshaw Brothers

Andy D[illegible]
Private Well

Date 3/22/00 Sig. B. Carter
Claim Mud Lake Storage
Doc Source Watermaster
WO 31

SCANNED
NOV 25 2002

Early pumping Information

November 26, 1952

Jack Gerard, President
Owsley Canal Co.
Terreton, Idaho

Dear Jack,

Further answering you letter of November 22, and especially concerning the Board of Directors, Since there was no quorum at your annual stockholders' meeting, you naturally could not elect directors.

The two directors whoe terms have just expired will hold over until their successors are elected and qualified. You will therefore go on just as before the meeting.

You ask about proceedings at the annual stockholders' meeting of next year. On that occasion if the terms of the office of the three other directors have expired, the stockholders should then elect an entire new board, electing two directors for two years, and the other three for three year terms so as to carry out the intent of the by-laws, that the terms of not more than two directors should expire in any one year.

Very truly yours,
Edwin Snow, Attorney

ES:bw

Dubois, Idaho, November 6, 1952

The Owsley Canal Co.
Terreton, Idaho

Gentlemen:

Requested by Mr. Fred Jemmett today was the amount of water pumped during 1952 up to November 1st.

Following you will find statements of amounts:

Normal Lake Water.....36,185 acre feet
Well Water, North Lake
and at Lloyd Bybees.....14,827 acre feet
TOTAL: .....51,012 acre feet

~~This does not inclue the small amount pumped since November 1. but this will be~~ included in the allotment sheet ~~made up as soon as the irrigation shut down takes place.~~ which will be

Very truly,
Elvin W. Henninger
Watermaster, Water District #66

Implies separate well volume in allotment sheet? Implies carry-over credit?

Date 3/22/00 Sig. R Coulton
****
Claim Mud Lake Storage
Doc Source Garth Soderquist
Mud Lake Water Users

SCANNED
NOV 25 2002

OVERVIEW OF 1957 MINUTES

OFFICERS: Jack Gerard, President
Vurgal Johnson, Vice-President
Betty Jemmett Secretary

DIRECTORS: Bill Simmons
Bert Bank
Ray Shuldberg

MANAGER: Bill Jemmett

JANUARY:
7th: a well for Co. and surrounding buildings with five interested parties: Merrill Jammett, Barksdale, Farm Bureau, Owsley Canal, and Hart and Holm; Bank unable to do loan immediatley -- some concern over interest; F. Jackett suggests using Bybee Wells to build up lake level; a generator for pumps from Rossiter; another notice to those owing moneybefore turning over to Small Claims Court.
11: a letter from Wegener and Daly Investment Corporation
16th: H.R. Harn, Insurance Agent there to explain loan; also bids on pick up.
24th: purpose of this meeting was to establish maximum amount needed for loan.

FEBRUARY:
4th: well and pump surrounding houses; some discussion on loan
5th: Fluce Cope recommended some changes in wells at North Lake
7th: continuation of meeting of 2-5-57: Purpose ofmeeting to discuss which pumps to buy
20th: continuation ofmeeting of 2-7-57: discussed invitation to bid on pumps; specs also discussed.
SPECIAL RESOLUTION CONCERNING LOAN....

MARCH:
2nd: pump bids
4th: Rogers Brothers bid accepted; nine new pumps to be installed; Doris L. Gerard new assistant secretary; assesements to be raised to $4 per share.

APRIL:
1st: report from H.R. Harn; Osborne headgate; protest from R. Brady on raise in assessment;water level .93' lower than April of 1956.

Date 3/22/00 Sig. R Coulton
****
Claim Mud Lake Storage
Doc Source Garth Soderquist
Mud Lake Water Users

SCANNED
NOV 15 2002

3

REGULAR MEETING OF THE BOARD OF DIRECTORS
JANUARY 7, 1957

January 1957

Those present were: Jack Gerard, Vurgal Johnson, Bill Simmons, Roy Shuldberg, and Bert Sant, Directors.

Minutes were read by the secretary. Roy Shuldberg motioned taht they be accepted as read. Vurgal Johnson seconded the motion. Motion carried.

A well for the Owsley Canal Co. and the surrounding buildings was discussed. The five interested parties are: Merrill Jemmett, Varksdale, Farm Bureau, Owsley Canal, and Hart and Holme. Vurgal Johnson motioned that a contract be made up and the above ask to sign before drilling started and if singed b y five parties for the Owsley Canal Co. to arrange for Fluce cope to begin drilling. Roy Shuldberg seconded the motin -- carried.

Loan was discussed. The Bank couldn't loan immediately. Other means of borrowing were discussed.

Vurgal Johnson motioned that the money be borrowed from the Bank, and then if another loan at cheaper rates can be arranged to get it and pay off the Bank loan. Board favored this motion.

~~Frank Jackett asked about starting the Bybee Wells to build up the lake level and all of the lake users on the creek pump their wells too. Vurgal Johnson asked that the matter go for a month before deciding and find out if we can legally begin this early to pump there and at North Lake.~~

could be interpreted that practice was established, only question was January startup -

Rossiter has a generator to put on the pumps to insure use if an exciter goes out. Bill Jemmett was asked to find out price by next meeting.

Vurgal Johnson motioned that one more notice be sent to those owing money to the Canal Co. and state on the notices that they are going to be put into Small Claims Court. Bill Simmons seconded the motion -- motion carried.

Vurgal Johnson motioned that Bill Jemmett order the pump parts needed. Roy Shuldberg seconded the motion -- motion carried.

Roy Shuldberg motioned the bills to be paid as read by the secretary as soon as money is available. Bert Sant seconded the motion -- motion carried.

Roy Shuldberg motioned meeting be adjourned. Vurgal Johnson seconded the motion -- motion carried.

Betty Jemmett, Secretary

SCANNED
NOV 25 2002

Claim Mud Lake Storage
Doc Source ~~Watermaster~~ Garth
Sulzer Guest Mud Lake Watermaster

3/22/00

- Superphate 6-6-60 - moss
Bentonite - welding 12-5-60
Ricky Knobfield 12-14-60

4

REGULAR MEETING OF THE BOARD OF DIRECTORS
MARCH 7, 1962

Those present were: Jack Gerard, Vurgal Johnson, Barney Staten, Ivan Staten, and Bill Simmons, Directors. Vern Pincock and Henry Martin, stockholders.

Kay Pincock ask about using water that returns down the Comstock ditch to the second owlsey toirrigate his ground on his NorthWest corner of ground. He would lift this water out of this waste ditch. The Board suggested that Kay dam off the culvert and take the water out on the West side of the read for this year and if satisfactory another year possible fix a gate on the east side of the road to hold up this water for pumping. Barney motioned that Key be allowed to put in this lift pump for this year and further arrangements to be amde after this trial period. Jack Gerard seconded the moiton. Motion carried.

Minutes of the last meeting were read by the secretary.

Vurgal Johnson read the letter from WayneAllen in regard to North Lake survey and the letter stated that they possilby wouldn't be able to do any survey work this year herefor the Canal Co. due to limited funds and time.

Jack Gerard and Barney Staten reported on the experimentsthay had done with SS-13 and the effectsof freezing uponsame. Jack stated that after freezing it seems to loose its effectiveness Mr. Cook thought. Barney stated that after his experiment thawed out that it held good again.

Mr. Henry Martin stated that he things pumps should be put on the tubewells to pump more water intoCamas Creek. He suggested even using the Hutton system to get this water down here. The others on Camas Creek use the water we pump he stated without running their pumps. He also stated that we have the right to remove beaver dams anywhere within our canal or Camas Creek. He said we have the right to clean Camas Creek right to the headof the creek and even into the forset if necessary. He recommended Pat Perry, Twin Falls, orBill Holden, Idaho falls as alawyer on water rights and associated matters. He stressed our protecting our water rights by lawsuits if necessary even. He said to go ahead and do the work and let somebody sue us. Mr. Martin ask if he would be allowed to move water from Merritt Owsley's ground to his ground on the south side if he purchased it from Merritt. Jack Gerard motioned that henry be allowedto do this provided hedidn't expect the Owsley Canal Co. to foot any expense for delivery of this additional water. Bill Simmons second themotion. Motion carried.

Date 3/22/00 sig. L. Cook
****
Claim Mud Lake Storage
Doc Source Courtesy Suggestion
Mud Lake Water Users

SCANNED
NOV 25 2002

Bentonite 1-2-61
Abonded wells North Lake Mar 61

5

OVERVIEW OF THE 1961 MINUTES

OFFICERS: JACK GERARD, PRESIDENT
BILL SIMMONS, VICE PRESIDENT
BETTY JEMMETT, SECRETARY

DIRECTORS: BARNEY STATEN
IVAN STATEN
GUY MISKIN

MANAGER: BILL JEMMETT

JANUARY:
2ND: meeting on bentonite reported -- decided clay would be a better sealer for North Lake; our claim on bentonite is named :Rocky Knob", filed 12-14-60; Workman's Compensation for Directors; church's damaged hay.

FEBRUARY:
7TH: O.E. Peterson;s sub pump bill; Mike Hathaway requests use of dragline; Staten gate.

APRIL:
3RD: transport and Chastains; Mitchell's work on the canal; power failure, Bloem to talk to P.U.C.; report on pumps.

MAY:
1ST: Louis Anderson transfer ofseventeen shares; KayPincock request 150 inches of steady water for irrigating machine; Karl Shuldberg to check on Vern Pincock's actual use of forty shares.

JUNE:
5TH: Carter of the Dept. of Reclamation told Don Shenton and Jack Gerard that the water master should give Owsley Canal Co. credit for water pumped from wells not mentioned in the decree before May 1, until someone proves different.

JUNE:
30TH: $1,200 insurance on dragline; Miller from David Place asks for permission to pump sub out of the borrowpit; pump and well on old rock ditch; single-phase protective devicesfor North Lake wells; motion to get newsub pump; request for buyinglumber ahead oftime for gates so that it can be treadted; assessment on bentonite claim.

AUGUST:
7TH: single-phase devices not to be used; Bill Yearsley's lease; loss at North Lake and sealing; report on Camas Creek; Cecil Allen checkgate on Henry Martin's place -- refers back to agreement; proposal by D.F. Edwards; pump efficiency.

Date 3/22/00 Sig B. Conton
****
Claim Mud Lake Storage
Doc Source Garth Sudergaard
Mud Lake Water Users

SCANNED
NOV 25 2002

REGULAR meeting of the BOARD OF DIRECTORS
JUNE 7, 1961
June 1961

Those present were: Jack Gerard, Ivan Staten, Bill Simmons, Barney Staten, and Ed Pope.

Ivan Staten motioned that the minutes of the last meeting be approved as read by the secretary. Barney Staten seconded the motion -- motion carried.

Jack Gerard reported on his and Don Shenton's trip to Boise to see the Department of Reclamation. They secured copies of letters and pictures which had been sent to the Dept. of Reclamation regarding the Camas Creek work. There was a discussion about the water coming down Camas Creek and the pumping being done out of Rays Lake which keeps water from reaching Mud Lake. ~~Mr. Carter of the Department of Reclamation in Boise stated that the watermaster should give us credit for water pumped from any wells not mentioned in the decree before May into the lake until someone proves otherwise.~~

The water charts as prepared by the watermaster were discussed and read.

The secretary was instructed to call Blaine McKinlay and Jay Furness and ask them if they want us to moss now on their canal.

Ditchrider problems were discussed.

The drain from the Comstock into the second Owsley was discussed. When the lake is high the water won't drain. It was agreed that Peterson could put on a new flappergate to control this water from running west through this drain pipe if he wished. Guy Miskin motioned that the Canal Co. put a flapper gate here that seals completely. Ivan Staten seconded the motion. Motion carried.

The bills were read by the secretary. Barney Staten motioned that they be paid as read. Bill Simmons seconded the motion -- carried.

Bill Simmons motioned that the meeting adjourn. Barney Staten seconded the motion -- carried.

Betty Jemmett, Secretary

Date 3/22/00 Sig. B. Coulter

****

Claim Mud Lake Storage

Doc Source Garth Soderquist

Mud Lake Water Users

SCANNED

NOV 25 2002

OWSLEY CANAL CO.
FAX COVER SHEET

PHONE(208)663-4359
FAX(208)663-4369

PAGES INCLUDING COVER SHEET (4)

FAX# 208-525-7177

ATT: Mr Harold Jones

COMPANY Mud Lake Water Users Inc

From: Garth Soderquist

COMMENTS:

The following information May be of further interest in pre-season pumping during years 1963 - 1986

Sincerely
Garth

****
Claim Mud Lake Storage
Doc Source Supplied by
Claimant 31-11339
Date 3/22/00 Sig B. Coulter

SCANNED
NOV 25 2002

Wednesday, March 20, 1963

79th Day—286 days to follow

☑	CLEAR
	CLOUDY
	RAIN
	SNOW

58522
58520
2

Pick-p.

Mud Lake
to start Pumps

G.H 5.38

Pre season pumping 1963

GS

****

Claim Mud Lake Storage
Doc Source Claimant supplied
document in A31-11339
Date 3/22/00 Sig L. Coulter

SCANNED
NOV 15 2002

Pre Season - (MAR. April)
Early Pumping flows to MUD LAKE

1973-1977	No early Preseas Pumping Required.	
1978	12,400 AF.	April
1979	17,800 A.F.	MARCH
1980	21,800 A.F.	March + April (5,700 m / 15,100 A)
1981	9,500 A.F.	MARCH.
1982	8,100 A.F.	March
1982	2,700 A.F.	May
1983-1986	No Early Pumping Required.	

(10,800 total early 82)

****
Claim Mud Lake Storage
Doc Source Supplied by claimant - file A31-11339
Date 3/22/00 Sig B. Conlon

SCANNED
NOV 25 2002

FEB-18-15 10:53 AM OWSLEY1CANAL 6634369 P.04

Page 4

5

North Lake pumps started March 20	1963	Main Plant pumps		
Water Level on March 14 - 6'3"		Started	May 6	
		Stopped	Nov. 15	
Stopped pumps 29th April				
Water Level on this date - 13'6"		Bybee Well pumps		
		Started	May 27	
North Lake pumps started May 21		Stopped	June 15	
Water Level - 6'10"		Started	July 3	
Stopped pumps June 11		Stopped	Sept. 19	
Water Level - 13'2"				
	1964	Main Plant pumps		
North Lake pumps started July 2		Started	May 14	
Water Level - 9'3"		Stopped		
Stopped pumps Sept. 19				
Water Level 25'6"		North Lake Pumps		
		Started	May 29	Water Level 4'6"
October 11 Water Level - 16'6"		Stopped	June 18	
		Started	July 6	Water Level 3'7"
North Lake pumps started Oct. 28		Stopped	Sep. 25	Water Level 25'8"
Stopped pumps Oct. 31				
[illegible] started Mar 6		Bybee Pumps		

SCANNED
NOV 25 2002

****
Claim Mud Lake Storage
Doc Source supplied by
Claimant - A31-11339
Date 3/22/00 Sig. B. Coutan

MUD LAKE WATER USERS, INC.
FAX COVER SHEET

PHONE(208)663-4359
FAX(208)663-4369

PAGES INCLUDING COVER SHEET (___)

FAX# (208) 525-7177

ATT: HAROLD JONES

COMPANY TOWN

From: GARTH SODERQUIST

COMMENTS:

Regular Meeting of the Board of directors June 5, 1961 indicate that pre-season pumping was done before June 5, 1961. I became a director in 1972 and know that pre-season pumping had been done for some time before that

Sincerely,
Garth Soderquist

3/22/00 S. Coulter
****
Claim Mud Lake Storage
Doc Source Supplied by claimant - A31-11339

SCANNED
NOV 25 2002

SPECIAL MEETING OF THE BOARD OF DIRECTORS

APRIL 9, 1979 Owsley Canal Company

Those present were: Nile Wilding, Tom Hodgson, Walt Speelmon, Merlin Byrne, and Gerald Messerli. Also present were Karl Shuldberg, Manager and Robert Saunders, Secretary.

Also present were many individuals from the surrounding Canal Companies. Myron Evans from Utah Power and Light Co. was there to explain the new program from Utah Power and Light Co. We would need to shut off one fifth of the pumps each day to reduce the load during the day. He expressed concern of the effect of this program on the flood irrigators. The sprinkler people could benefit from such a program.
If we do not want to comply with the voluntary shut off this year we need to apply for a waiver. There would be no increase in the power rate for noncompliance.

Mr. Evans and the other irrigators left at this point.

Dobson Stewart wants permission to move three power poles from the sub ditch to the side of the road. Walt Speelmon moved and Gerald Messerli seconded to let them do it if Nile or someone checked the site to make sure that it did not hurt the Canal Company.

Don Shenton said the lake is about a foot below the level last year and the water shed is less than normal. He recommends that we begin pumping about the middle of April. Merlin Byrne moved with a second from Walt Speelmon to turn the North Lake pumps on April 16, 1979 -- carried.

Gerald Messerli moved and Walt Speelmon seconded to sign the waiver from the Power Co. Tom Hodgson abstained from voting.

With no other business, Walt Speelmon moved that the meeting be adjourned.

Robert Saunders
Secretary

Date 3/22/00 Sig. B. Conlon

****

Claim Mud Lake Storage

Doc Source supplied by claimant

A31-11339

SCANNED

MAR 15 2002

A SPECIAL MEETING OF THE BOARD OF DIRECTORS

APRIL 21, 1978 Owsley Canal Company

Those present were: Don Shenton, Dennis Green, Rulon Yearsley, Art Dobson, Nile Wilding, Tom Hodgson, Merlin Byrne

Don presented the lake guage figures and indicated that we would be 8,752 acre ft. short of a full lake if we did not begin pumping.

Art Dobson moved that we begin pumping April 24, 1978, this was seconded by Rulon Yearsley -- motion carried.

Merlin Byrne will get witnesses to sign a statement that our desert right was used in the summer of 1977. He will also supply a copy to Don.

Don will make the bills out for pro-rating the cost of the gates on the Bybee check. Owsley will authorize Don to send a cashier's check to California to pay for the gates and the other water users will pay Owsley.

Ron Summers will be moving down to the house April 23, 1978.

Merlin Byrne moved that Bryon Jemmett clean the trailer or if we hired someone to clean it, the cost would be deducted from his salary, also that the furniture be accounted for. This was seconded by Tom -- carried.

Meeting was adjourned.

Tom Hodgson took the minutes of this meeting.

Date 3/22/00 Sig. B. Coulton
****
Claim Mud Lake Storage
Doc Source Supplied by claimant - A31-11339

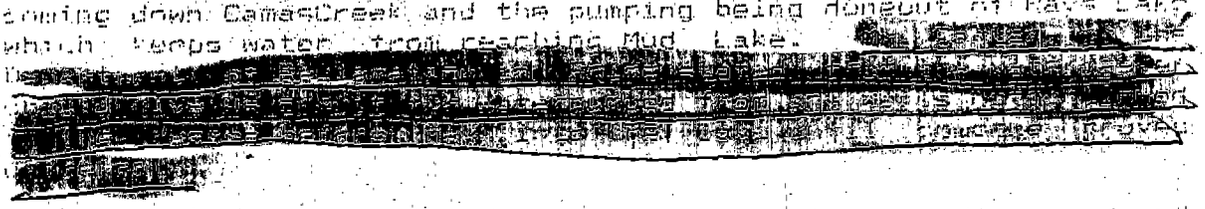
SCANNED
NOV 25 2002

REGULAR MEETING OF THE BOARD OF DIRECTORS
JUNE 5, 1961

Those present were: Jack Berard, Ivan Staten, Bill Simmons, Barney Staten, and Guy Miskin.

Ivan Staten motioned that the minutes of the last meeting be approved as readby the secretary. Ivan Statensecondes the motion — motion carried.

Jack Berard reported Annis and Don Shenton's trip to Boise to see the Department of Reclamation. They secured copies ofletters and pictures which had been sent to the Dept. ofReclamation regarding the Camas Creek work. There was a discussion about the water coming down CamasCreek and the pumping being dongout of Rays Lake which keeps water from reaching Mud Lake.



The water charts as prepared by the watermaster werediscussed and read.

The secretary was instructed to call Blaine McKinlay and Guy Furness and ask them if they want us to mose now on their canal.

Miscellaneous problems were discussed.

The drain from the Comstock into the second Owsley was discussed. When the lake is high the water won't drain. It was agreed that Peterson could put on a new flapper gate to control this water from running west through this drain pipe if he wished. Guy Miskin motioned that the Canal Co. put a flapper gate here that seals completely. Ivan Staten seconded the motion. Motion carried.

The bills were read bythe secretary. Barney Staten motionedthat they be paid as read. Bill Simmons seconded the motion — carried.

Bill Simmons motioned that the meeting adjourn. Barney Staten seconded the motion — carried.

Betty Jamiett, Secretary

Date 3/22/02 Sig. B. Coulter
****
Claim Mud Lake Storage
Doc Source Supplied by Claimant - A31-11339

SCANNED
NOV 25 2002

REGULAR MEETING OF THE BOARD OF DIRECTORS
JUNE 5, 1961

Those present were: Jack Gerard, Ivan Staten, Bill Simmons, Barney Staten, and Guy Miskin.

Ivan Staten motioned that the minutes of the last meeting be approved as read by the secretary. Ivan Statensecondied the motion - motion carried.

Jack Gerard reported Annie and Don Shenton's trip to Boise to see the Department of Reclamation. They secured copies ofletters and pictures which had been sent to the Dept. ofReclamation regarding the Camas Creek work. There was a discussion about the water coming down CamasCreek and the pumping being doneout of Rays Lake which keeps water from reaching Mud Lake. Mr. Carter of the Department of Reclamation in Boise stated that the watermaster should give no credit for waterpumped from any wells notmetered in the decree before May into the lake until someone proves different.

The water charts as prepared by the watermaster werediscussed and read.

The secretary was instructed to call Blaine McKinley and Jay Furness and ask them if they want us to mose now on their canal.

Litchrider problems were discussed.

The drain from the Comstock into the second Owsley was discussed. When the lake is high the water won't drain. It was agreed that Peterscouldput on a new flappergate to control this water from running west through this drain pipe if he wished. Guy Miskin motioned that the Canal Co. put a flapper gate here that seals completely. Ivan Staten seconded the motion. Motion carried.

The bills were read bythe secretary. Barney Staten motionedthat they be paid as read. Bill Simmons seconded the motion - carried.

Bill Simmons motioned that the meeting adjourn. Barney Staten seconded the motion - carried.

Betty Jemmett, Secretary

Date 3/22/00 Sig. B. Coulter
****
Claim Mud Lake Storage
Doc Source Supplied by Claimant - A31-11339

SCANNED
NOV 25 2002

PRE-IRRIGATION SEASON
PUMPING AGREEMENT

THIS AGREEMENT, made and entered into by and between the undersigned parties, each of whom is entitled by virtue of valid appropriated rights of record to divert and use certain of the waters of Mud Lake, all within the boundaries of Water District #31, in Jefferson County, State of Idaho, for irrigation purposes,

WITNESSETH:

WHEREAS, the undersigned water users and water user entities constitute all of the persons and parties who are entitled by law to divert water from Mud Lake and apply the same to beneficial use upon their lands or to distribute the same for the beneficial use upon the lands of their stockholders; and

WHEREAS, such rights to the use of the waters of Mud Lake have previously been described and awarded by courts of competent jurisdiction in the following decrees:

1. A decree entered in the District Court of the United States for the District of Idaho, Eastern Division, in the case of Ernest Sauve, plaintiff, v. W. H. Abbott, et al, Equity No. 635, by the Honorable Charles C. Cavanah, United States District Judge, on November 1, 1930.

2. A decree entered in the case of the Owsley Canal Company, plaintiff, v. Ernest Bauerle, et al, defendants, Civil No. 1739, in the Ninth Judicial District of the State of Idaho, in and for the County of Jefferson, by the Honorable C. J. Taylor, District Judge of said Court on the 14th day of October, 1940; and

WHEREAS, during many years, commencing about 1960, shortages in the supply of water available from Mud Lake have occurred as a result of insufficient natural flow from its various tributaries, including both natural surface streams and sources described and set forth in the above-referenced Sauve v.

Date 3/22/00 Sig. B. Carlton
****
Claim Mud Lake Storage
Doc Source Supplied by Claimant
A31-11339

Abbott decree, and natural artesian flows from various wells as described and set forth in the above-referenced Owsley v. Bauerle decree; and

WHEREAS, during the years of such shortages, the water users and the watermaster of said Water District have developed the practice of causing the wells described in the Owsley v. Bauerle decree to be pumped prior to May 1, so as to augment the flows into Mud Lake in order to fill the lake and supply all of the rights to use of water therefrom; and

WHEREAS, such practice is the most practical method of insuring the filling of Mud Lake in the manner necessary to permit distribution of water in accordance with the maximum rights of the parties hereto; and

WHEREAS, the undersigned parties now desire to define in a formal manner, the details and terms of this Agreement and practice,

NOW, THEREFORE, for and in consideration of the mutual promises and conditions hereinafter set forth, the parties hereto agree as follows:

1. This Agreement shall become binding upon the execution hereof by all parties and shall extend through the end of the 1987 irrigation season, which is agreed to be November 1, 1987. This Agreement shall automatically renew on the same terms and conditions for successive five-year periods from November 1, 1987, and each five-year period thereafter, unless a party signatory to this Agreement or their successor in interest shall give written notice of election not to continue this Agreement to the watermaster of Water District #31 by October 1 of the year in which the five-year extension shall be scheduled for automatic renewal. All rights of parties under this Agreement shall thereupon terminate at the expiration of such five-year period.

Date 3/22/00 Sig. B. Conton
****
Claim Mud Lake Storage
Doc Source Supplied by claimant
A31-11339

2. The duly elected watermaster of Water District #31 of the State of Idaho, shall administer this Agreement, but shall have no obligation other than to exercise his best judgment in the determinations, decisions and actions he is required to perform hereunder.

3. At such time as said watermaster shall, prior to May 1 of any year, notify the parties hereto in writing, each agrees to commence pumping his or its respective wells at his or its own proper cost and expense, at such rates as said watermaster may from time to time request, and allow the water pumped therefrom to flow by the usual means into Mud Lake to the end that said lake may be filled, prior to May 1 of each year, to such maximum height on the United States geological survey gauge located on Mud Lake at the mouth of Camas Creek, as said watermaster may determine is warranted by existing conditions.

4. The watermaster shall keep accurate records of all amounts of water pumped from the wells of the parties hereto prior to May 1, pursuant to this Agreement, and shall record the same as a separate item on the record kept by him known as the "Mud Lake Allotment Sheet," under the heading "Well Water Balances." All such amounts pumped prior to May 1, after deducting therefrom the amount agreed upon herein as the proper amount for transmission and storage losses, shall be credited to the account of the individual or entity doing such pumping, and such individual or entity shall be entitled, during the irrigation season, in addition to all amounts which may naturally accrue and which he or it might be entitled under the existing decrees to divert and use, all or any portion of the amount shown on said "Mud Lake Allotment Sheet" as a credit. It is agreed that because of the difficulty in making measurements of actual transmission and storage losses prior to May 1, the watermaster

Date 3/22/00 Sig. B. Contor
****
Claim Mud Lake Storage
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shall deduct amounts determined by the watermaster to be necessary to compensate for transmission and storage losses. No credits for such amounts pumped shall be carried past November 1 of such year, whether or not all of the amount credited to any individual or entity was used during the irrigation season.

5. It is understood that said pre-irrigation season pumping shall be in lieu of any natural or artesian flows which may have occurred during the same period, and the parties hereto agree that each has a valid and existing right to engage in and continue the practice of pre-irrigation season pumping, as described herein, by virtue of the above-referenced court decrees, and having done so over a period of many years. No party claims any right other than or in addition to the rights set forth in said decrees and as further described herein, by virtue of this Agreement or other written or oral agreements made for the same or similar purposes in the past, or the actual practices in previous years. Each party hereto hereby releases each and every other party and the watermaster of and from any and all claims of every name, nature, and description, which may arise out of, or in the course of, the administration of or in compliance with this Agreement.

6. The provisions and stipulations hereof, shall inure to the benefit of, and shall be binding upon the heirs, executors, administrators, assigns or successors in interest of the parties hereto.

IN WITNESS WHEREOF, the parties have hereunto set their hands this 5 day of ~~February~~ MARCH, 1982.

OWSLEY CANAL COMPANY

By: [signature]
Its [signature]

Date 3/22/00 Sig. B. Coulter
****
Claim Mud Lake Storage
Doc Source supplied by claimant
A31-11339

JACKETT CANAL COMPANY

By: Leon B. Kofoed
Its Pres.

LEVEL CANAL COMPANY

By: Werner Schmidt
Its Pres

HOLLEY WATER USERS, INC.

By: Carl R Haggan pres
Its

DOBSEN-STEWART RANCHES, INC.

By: Otto Lee
Its owner

JAY T. FURNESS

JOE B. POTTER

LEVERE PARKS ESTATE

By: Elaine Park
Personal Representative

INDEPENDENT WATER USERS OF MUD LAKE, Inc.

By: Frank Siddoway Vice Pres

5 - PRE-IRRIGATION SEASON
PUMPING AGREEMENT

Date 3/22/00 Sig. B. Contor
****
Claim Mud Lake Storage
Doc Source A31-11339
Supplied by Claimant

(14)

Water District #31

Box 33
Dubois, Idaho 83423
(208) 374-5230

Donald W. Shenton
Watermaster

ATTACHMENT TO, AND PART OF, PRE IRRIGATION SEASON PUMPING AGREEMENT

We the undersigned do hereby agree to pay our appropriate per cent cost of charges assessed by the actual billings of the following:

1. Power bill charges made to the sub pump owners of waters pumped and returned into Mud Lake due to high lake levels caused by pre season pumping.

2. Maintanance bills of above pumps for service, and parts to maintain said pumps.

3. The pumpers eligible for payment shall be Art Dobson, Jay Furness, and Blaine Park and Joe Marty.

4. All waters pumped, that are paid for by this agreement shall be credited to Mud Lake losses and evaporation and not for any individual or corporation credit.

5. Method of collection Pump owners shall pay said bills as charged. At the end of sub-pump season a copy of said bills with a copy of reciept of payment shall be presented to the Watermaster of Water Dist. #31, which in turn will be pro-rated and assessed by per cent as follows. The Watermaster would then return checks of proper amounts to pump owners.

Percent Break-down

	Acres	
Owsley Canal Co.	17,800	.6840
Jackett Canal Co.	2,821	.1084
Ind. Water Users	4,803	.1846
Holley Water Users	600	.0230
	26,024	1.0000

Owsley Canal Co.

By Mike Wilding

Its Pres

Jackett Canal Co.

By Dean B. Kofoed

Its Pres.

Ind. Water Users

By Werner Schmitt

Its Pres

HollY Water Users.

By Carl R Hoggan

Its Pres

Signed this 5 day of March 1982.

Date 3/22/00 Sig. B. Coutor

****

Claim Mud Lake Storage

Doc Source Supplied by claimant, A31-11339

REGULAR MEETING OF THE BOARD OF DIRECTORS
JANUARY 7, 1987

Those present were: Jack Gerard, Vurgal Johnson, Bill Simmons, Roy Shuldberg, and Bert Sant, directors.

Minutes were read by the secretary. Roy Shuldberg motioned taht they be accepted as read. Vurgal Johnson seconded the motion. Motion carried.

A well for the Owsley Canal Co. and the surrounding buildings was discussed. The five interested parties are: Merrill Jemmett, Varksdale, Farm Bureau, Owsley Canal, and Hart and Holme. Vurgal Johnson motioned that a contract be made up and the above ask to sign before drilling started and if singed b y five parties for the Owsley Canal Co. to arrange for Fluce cope to begin drilling. Roy Shuldberg seconded the motin -- carried.

Loan was discussed. The Bank couldn't loan immediately. Other means of borrowing were discussed.

Vurgal Johnson motioned that the money be borrowed from the Bank, and then if another loan at cheaper rates can be arranged to get it and pay off the Bank loan. Board favored this motion.

Frank Jackett asked about starting the Bybee Wells to build up the lake level and all of the lake users on the creek pump their wells too. Vurgal Johnson asked that the matter go for a month before deciding and find out if we can legally begin this early to pump there and at North Lake.

Rossiter has a generator to put on the pumps to insure use if an exciter goes out. Bill Jemmett was asked to find out price by next meeting.

Vurgal Johnson motioned that one more notice be sent to those owing money to the Canal Co. and state on the notices that they are going to be put into Small Claims Court. Bill Simmons seconded the motion -- motion carried.

Vurgal Johnson motioned that Bill Jemmett order the pump parts needed. Roy Shuldberg seconded the motion -- motion carried.

Roy Shuldberg motioned the bills to be paid as read by the secretary as soon as money is available. Bert Sant seconded the motion -- motion carried.

Roy Shuldberg motioned meeting be adjourned. Vurgal Johnson seconded the motion -- motion carried.

Betty Jemmett, Secretary

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3/22/00 St. Center
Claim Mud Lake Storage
Doc Source Signed by Claimant - A91-1139

2

OVERVIEW OF 1957 MINUTES

OFFICERS: Jack Gerard, President
Vurgal Johnson, Vice-President
Betty Jemmett Secretary

DIRECTORS: Bill Simmons
Bert Sant
Roy Shuldberg

MANAGER: Bill Jemmett

JANUARY:
7th: a well for Co. and surrounding buildings with five interested parties: Merrill Jemmett, Barksdale, Farm Bureau, Owsley Canal, and Hart and Holm; Bank unable to do loan immediatley -- some concern over interest; F. Jackett suggests using Bybee Wells to build up lake level; generator for pumps from Rossiter; another notice fo those owing moneybefore turning over to Small Claims Court.
11: a letter from Wegener and Daly Investment Corporation
16th: H.R. Harn, Insurance Agent there to explain loan; also bids on pick up.
24th: purpose of this meeting was to establish maximum amount needed for loan.

FEBRUARY:
4th: well and pump surrounding houses; some discussion on loan
5th: Fluce Cope recommended some changes in wells at North Lake
7th: continuation of meeting of 2-5-57: Purpose ofmeeting to discuss which pumps to buy
20th: continuation ofmeeting of 2-7-57: discussed invitation to bid on pumps; specs also discussed.
SPECIAL RESOLUTION CONCERNING LOAN....

MARCH:
2nd: pump bids
4th: Rogers Brothers bid accepted; nine new pumps to be installed; Doris L. Gerard new assistant secretary; assesements to be raised to $4 per share.

APRIL:
1st: report from H.R. Harn; Osborne headgate; protest from R. Brady on raise in assessment;water level .93' lower than April of 1956.

Date 3/22/00 Sig. B. Conlon
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Claim Mud Lake Storage
Doc Source supplied by Claimant - A31-11339

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SD-1151-2

Idaho Department of Water Resources
Selection File Maintenance, Screen II

Date 03/22/00
Time 08:12:09

Go to Page ___

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A31-00038___	A31-00052___	A31-00065___	A31-00104___	A31-00105___
A31-00134___	A31-00135___	A31-00143___	A31-00144___	A31-00147A__
A31-00159___	A31-00162___	A31-00163___	A31-00166___	A31-00168___
A31-00169___	A31-00184___	A31-00185___	A31-00185Z5_	A31-00186___
A31-00187___	A31-00188___	A31-00190___	A31-00201___	A31-00232___
A31-00237___	A31-00263___	A31-00327___	A31-00328___	A31-00329___
A31-00330___	A31-00332___	A31-00363___	A31-02239___	A31-02265___
A31-02276___	A31-02289___	A31-02290___	A31-02297___	A31-02310___
A31-02317A__	A31-02317B__	A31-02321___	A31-02332___	A31-02341___
A31-02342___	A31-02343___	A31-02344___	A31-02345___	A31-02358___
A31-07005___	A31-10965___	A31-11339___	___-_____	___-_____
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NOV 25 2002

31-4009

TO WHOM IT MAY CONCERN:

I, Donald W. Shenton, Watermaster of Water Dist. #31 (formerly Water Dist. #61) hereby testify to the following statements.

I am acquainted with Carl Lundholm, I know of his farming operations. I am very familiar with his irrigation works and lands irrigated.

I testify that he has used water for many years on the lands mentioned in his claim to a water right.

I testify that I as watermaster measured his well on numerous occasions and found his flow from this well to be mostly in excess of 6.0 c.f.s. The well I refer to is the well mentioned in application to a claim to a water right.

I testify that Carl Lundholm has exchanged water into and out of Mud Lake and Camas Creek, using Mud Lake for a storage reservoir for this well water for a number of years now, as is recorded in Water Masters Annual Report and allottment reports. This custom has been permitted as a right like most other Mud Lake users, using the same practice.

I feel Mr. Carl Lundholm is entittled to this claim to a water right as stated in his application of a claim to a water right.

Dated this 22 day of May, 1974.

Donald W. Shenton

Donald W. Shenton
Watermaster, Dist. #31

****
Claim Mud Lake Storage
Doc Source Claim file A31-4009
Date 3/23/00 Sig B. Coulter

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RESOLUTIONS PERTAINING TO THE TIME AND MANNER OF COLLECTING THE BUDGET AS ADOPTED AT THE ANNUAL MEETING OF THE WATER USERS OF WATER DISTRICT NO. 31

RESOLUTIONS

HIGH WATER AT MUD LAKE

Moved: Don Parker, seconded by: Jim Hagenbarth, passed

That the watermaster be authorized to divert of any high water and that such water be considered stored in the aquifer, with rights to the water being retained by the District. Diversion of said waters would be by diverting at the Lone Tree diversion site, and pumping through the diversion ditch at the end of Owsley Canal.

Be it further resolved that the advisory board seek legal advise on filing a use right or amending an existing claim to ensure the recording of the historical use of the diversion of Camas Creek surface flow into the aquifer at the Lone Tree Diversion. This diversion practice has occurred for years an is well documented in the Swave Decree and other District #31 records.

COLLECTION OF WATER ASSESSMENTS

Moved: Keith Shuldberg, seconded by: Gerald Messerli, passed

That no ditch, canal company, or other water user shall have the right to demand and receive water, and the watermaster shall not deliver such water, until full payment is made. Said payment becomes due April 1, and becomes delinquent April 15, and if not paid by April 15, shall bear interest from the date of April 1, until paid at the rate of 8% per annum. That government agencies be exempt from the above provisions to the extent necessary for them to comply with payments according to the provisions of Federal law, and that the Watermaster of District #31, be authorized to enter into contract with said agencies of the United States for payment of assessment as provided in the budget.

MUD LAKE WATER USERS

Moved: Don Packer, seconded by: Willy Schmitt, passed

That any water user that completes the water year with a negative balance on the Mud Lake balance sheet shall have

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Claim Mud Lake Storage
Doc Source WD 31 Meeting 3/10/1998
Date 3/21/00 Sig. [illegible]

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MAR 20 1998
Department of Water Resources
Eastern Region

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that negative balance carried forward to the April draft column on the balance sheet the following year, and said negative balance shall be charged to the Mud Lake allotment of said following year, as set forth in part 5, paragraph 4 of the Mud Lake Decree.

DISTRICT BILLINGS AND COLLECTIONS

Moved: Dave Hagenbarth, seconded by:Keith Shuldberg, passed

Be it resolved that the Clark County Auditor make up a roll of all Water District #31 users to include all Jefferson County users. Be it further resolved that the Clark County Treasurer mail out said billings to make collections of all Water District #31 water users to include all Jefferson County Water Users in said Water District #31 boundaries. Be it further resolved that the Clark County Treasurer also make all payments and disbursements owed by Water District #31, which are presented through the proper claims procedures which are common to other Clark County practices.

WELL WATER MEASUREMENTS

Moved: Don Parker, seconded by: Pete McGarry

Be it also resolved that the following canal companies be allowed to contract with Water District #31 to measure and record and report the well water flow of the Monteview Canal Company, the Jefferson Irrigation Company, and the Producers Irrigation.

Be it also resolved that the Watermaster and his Deputies accomplish the required measurements and recording and reporting of the above named companies.

Be it also resolved that monies paid for these services be paid from a separate account deposited in a bank account under a subterranean heading. The above canal companies be charged a fee of $26.00 per second foot (c.f.s.) for the above services. The monies paid out for these services shall be drawn only if the check is signed by the chairman and the secretary of Water District #31. We order that the water district is out no costs from any source of the regular water district funds and that recording and reporting be separate from the regular water district water reports and budgets.

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Claim Mud Lake Storage
Doc Source WD 31 Minutes
3/10/1998
Date 3/23/00 Sig B. Conlon

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Department of Water Resources
Eastern Region

DRAFT 4

AGREEMENT REGARDING MUD LAKE WATER ADMINISTRATION AND DELIVERY

~~WATER RIGHT NOS.~~ See Attached List of Water Rights Numbers

Mud Lake Water Users Inc., Dobson Ranch Partnership, Level Canal Co. Inc., Jalene and Keith Shuldberg, husband and wife, Van and Joan Burtenshaw, husband and wife, Don and Beverly Burtenshaw, husband and wife and Independent Water Users, Inc. and all of their successors in interest ("Claimants") and the Idaho Department of Water Resources ("IDWR") hereby enter into this Agreement as of this _____day of _____, 2001.

Introduction

The Claimants voluntarily enter into this Agreement regarding the administration and delivery of water from Mud Lake. The Claimants consist of all of the water users who own ground water rights that are pumped into and delivered from Mud Lake and who own surface water rights that are stored and delivered from Mud Lake. The Claimants and IDWR enter into this Agreement in order to preserve and clarify the historical delivery practice of water from Mud Lake upon which they have all relied.

[Savings language that the Department wants to consider? Nothing contained in this Agreement prevents the Director of IDWR from executing his duty as required by law.]

Terms of Agreement

The Claimants agree and stipulate to the delivery and management of Mud Lake water as described below.

Allotment System

a. Definitions. For purposes of this Agreement:

Mud Lake: For purposes of administration, Mud lake is defined as Mud Lake or its tributaries at points affected by the backwaters of Mud Lake. Historically the term "Mud Lake" has been Mud Lake and Camas Creek downstream of T7N R35E Section 25, SWSWSE.

Divertable Volume: Water in Mud Lake above the elevation of 4773.99 feet, National Geodetic Vertical Datum of 1929.

Allotment Sheet: An accounting system maintained by the Watermaster consisting of the following: the (1) "Allotment" section which records volumes deliverable to holders of surface water rights; the (2) "Well Balance" section which records volumes deliverable to

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holders of ground water rights; and the (3) "Inflow/Outflow Accounting" section, which records evaporation and other losses, inflows, outflows, and mass-balance calculations.

Early Season Pumped Ground Water: Ground water diverted to storage in Mud Lake prior to May 1, under water right numbers: 31-332, 31-11339, 31-11429, 33-11430, 31-11432. It is accounted for in the Well Balance section of the Allotment Sheet.

Provisional Allotment: The Provisional Allotment is the volume of water anticipated to be deliverable to holders of surface water rights diverted from Mud Lake. This is computed as the Divertable Volume of Mud Lake on May 1, less Early Season Pumped Ground Water contributions, plus Water Delivered Prior to May 1, plus the anticipated natural inflows to Mud Lake for the current irrigation season.

Final Allotment: The Final Allotment is the actual volume of water deliverable to holders of surface water rights diverted from Mud Lake. This is computed as the Divertable Volume of Mud Lake on May 1, less Early Season Pumped Ground Water contributions, plus Water Delivered Prior to May 1, plus the actual natural inflows to Mud Lake from May 1 to the date of the calculation of the Final Allotment. The Final Allotment is calculated when natural inflows to Mud Lake from Camas Creek have ceased and no further natural inflows are anticipated from Camas Creek.

Individual Allotment: The portion of the Provisional or Final Allotment allocated to an individual water user, according to the priority date and the sum of the volume of his/her surface water rights diverted out of Mud Lake.

Individual Allotment Balance: The Individual Allotment less the volume of withdrawals (including withdrawals made prior to May 1) and the cumulative total of the proportionate share of losses charged against the allotment.

Well Balance: The volume of stored water in Mud Lake that has been injected from ground water, from May 1 to November 1, or that has been injected from Early Season Pumped Ground Water.

Individual Well Balance: The portion of the Well Balance allocated to an individual water user, according to the injections made from that user's well(s), under that user's ground water right(s) less the volume of withdrawals (including withdrawals made prior to May 1) and the cumulative total of the proportionate share of losses charged against the allotment.

Positive Balance: An Individual Allotment Balance or Individual Well Balance with a value greater than zero.

~~Negative Balance: An Individual Allotment Balance or individual Well Balance with a value less than zero.~~

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b. This Agreement shall apply to all water rights diverted or rediverted out of Mud Lake as defined for administrative purposes.

c. The Watermaster shall maintain the Allotment Sheet to show the ownership of Individual Allotment water and Well Balance water. Well Balances shall be recorded beginning with the date of the first pumping of wells or May 1, whichever is earlier. Allotment Balances shall be computed beginning May 1. The Allotment Sheet shall be maintained through November 1.

d. Ground water flowing without pumping into Mud Lake, prior to May 1 and after November 1, shall be accounted as natural inflow to Mud Lake and shall not be carried in any Well Balance or Individual Well Balance. Owners of wells capable of flowing without pumping into Mud Lake shall allow such wells to flow subject to the discretion and control of the Watermaster, and shall allow such water to accumulate in Mud Lake, prior to May 1 and after October 31.

e. All well water, whether naturally flowing or pumped, delivered through Mud Lake from May 1 to November 1, shall be credited to the Individual Well Balance of the water user owning the well(s) and water right(s) under which the water is diverted.

f. Early Season Pumped Ground Water shall be credited to the Individual Well Balance(s) of the water user(s) owning the well(s) and water right(s) under which the water is diverted. These water rights are 31-332, 31-11339, 31-11429, 31-11430, and 31-11432.

g. On May 1 of each year, the Watermaster shall compute the Provisional Allotment and allocate it to the Individual Allotments of water rights defined in (b.) above, and record the Individual Allotments on the Allotment Balance section of the Allotment Sheet. Every fifteen days thereafter the Watermaster shall adjust the Individual Allotment Balances according to daily records of evaporation and other losses, and daily records of diversions. At the same time the Watermaster shall also adjust the Well Balance and Individual Well Balances according to daily records of evaporation and other losses, daily measured inflows, and daily records of diversions.

h. The Watermaster shall maintain daily records of natural inflows to Mud Lake from Camas Creek. At each fifteen-day recalculation interval, the Watermaster may if necessary adjust the Provisional Allotment and recalculate the Individual Allotments to correspond to actual natural inflows and revised anticipated natural inflows.

i. At such time as Camas Creek ceases to contribute water to Mud Lake, and no further contributions are anticipated in the current irrigation season, the Watermaster shall compute a Final Allotment and recalculate Individual Allotments.

j. At such time that all Individual Allotments cannot be completely filled, the Allotment and Individual Allotments shall be recalculated to prevent injury to holders of senior surface

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water rights.

k. At each fifteen-day recalculation interval, all evaporation and other losses shall be proportioned according to the volume of water recorded in each respective Individual Allotment Balance or Individual Well Balance and charged against these balances.

l. Positive Balances shall not be carried forward past November 1.

m. ~~Negative Balances~~ Overdrafts of Individual Allotments discovered at the end of the irrigation season shall be carried forward to the subsequent irrigation season's Allotment Sheet and charged against the Individual Allotment Balance or Individual Well Balance ~~on~~ May 1. ~~If Negative Balances are in excess of the calculated Individual Allotment, the excess amount shall be charged against the Individual Well Balance on May 1.~~ Overdrafts of Individual Allotments are not authorized.

n. The Watermaster may determine that the water user(s) may not withdraw more than 35% of the Individual Allotment in any calendar month if necessary to prevent injury to other water users. All water, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's Individual Allotment.

CLAIMANT MUD LAKE WATER USERS, INC.

_____

Gerald Messerli, President Date signed

CLAIMANT DOBSON RANCH PARTNERSHIP

_____

Andy Dobson, Partner (Cannot be president of a partnership?) Date Signed

CLAIMANT LEVEL CANAL CO., INC.

_____

Wilfried Smith, President Date signed

CLAIMANT JALENE OR KEITH SHULDBERG, HUSBAND AND WIFE

_____

Keith Shuldberg Date signed

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CLAIMANT VAN OR JOAN BURTENSHAW, HUSBAND AND WIFE

_____

Van Burtenshaw Date signed

CLAIMANT DON OR BEVERLY BURTENSHAW, HUSBAND AND WIFE

_____

Don Burtenshaw Date signed

CLAIMANT INDEPENDENT WATER USERS, INC.

_____

Andy Dobson, President Date signed

~~**IDWR CONCURRENCE**~~
Director of the IDWR

_____

Date signed

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ACKNOWLEDGMENTS

STATE OF IDAHO)
) ss.
County of _____)

I, _____, a notary public, do hereby certify on this _____day of _____, 2001, personally appeared before me _____, who, being by me first duly sworn, declared that he/she is the _____ of _____ and that he/she signed this *Agreement re Mud Lake Water Administration* in his official capacity, and that the statements contained herein are true.

_____
Notary Public for Idaho
Residing at _____

(Notarial Seal) My Commission expires _____

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ATTACHMENT TO AGREEMENT REGARDING MUD LAKE WATER ADMINISTRATION AND DELIVERY

AFFECTED WATER RIGHTS

1. Surface Water Rights Stored In Mud Lake

31	5
31	6
31	19
31	26
31	27
31	34
31	35
31	36
31	37
31	38
31	52
31	65
31	104
31	105
31	134
31	135
31	143
31	144
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31	211
31	212 A
31	213
31	232
31	237
31	243
31	263
31	344
31	345
31	354
31	355
31	360
31	361
31	363
31	10957
31	10958
31	10959
31	10960
31	10961
31	10962
31	11335
31	11337

? GW

look at source — GW

2. Ground Water Rights Stored In Mud Lake

31	332
31	11339
31	11429
31	11430
31	11432

3. Ground Water Irrigation Rights Delivered Via Mud Lake

31	327
31	328
31	329
31	330
31	331
31	336 B
31	337 B
31	371
31	2239
31	2265
31	2289
31	2290
31	2297
31	2310

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31	2317 A
31	2317 B
31	2332
31	2341
31	2342
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31	10965 A

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ATTACHMENT TO AGREEMENT REGARDING MUD LAKE WATER ADMINISTRATION AND DELIVERY

AFFECTED WATER RIGHTS

1. Surface Water Rights Stored In Mud Lake

31	5
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31	212 A

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31	10958
31	10959
31	10960
31	10961
31	10962
31	11335
31	11337

2. Ground Water Rights Stored In Mud Lake

31	332
31	11339
31	11429
31	11430
31	11432

3. Ground Water Irrigation Rights Delivered Via Mud Lake

31	327
31	328
31	329
31	330
31	331
31	336 B
31	337 B
31	371
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31	2297
31	2310
31	2317 A
31	2317 B
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DRAFT 3

AGREEMENT REGARDING MUD LAKE WATER ADMINISTRATION AND DELIVERY

WATER RIGHT NOS. 31-332, 31-11339, 31-11429, 33-11430, 31-11432 **[Insert Ground Water Right Numbers too?]**

Mud Lake Water Users Inc., Dobson Ranch Partnership, Level Canal Co. Inc., Jalene and Keith Shuldberg, husband and wife, Van and Joan Burtenshaw, husband and wife, Don and Beverly Burtenshaw, husband and wife and Independent Water Users, Inc. hereinafter referred to as "Claimants" hereby enter into this Agreement as of this _____day of _____, 2001.

Introduction

The Claimants voluntarily enter into this Agreement regarding the administration of water from Mud Lake. The Claimants consist of all of the water users who own ground water rights that are pumped into and delivered from Mud Lake and who own surface water rights that are stored and delivered from Mud Lake. The Claimants enter into this Agreement in order to preserve and clarify the historical delivery practice of water from Mud Lake which they have all relied upon. Furthermore, the Claimants want to insure that such delivery practices continue in the future.

Terms of Agreement

The Claimants agree and stipulate to the delivery and management of Mud Lake water as described below.

1. Allotment System

a. Definitions. For purposes of this Agreement:

Mud Lake: For purposes of administration, Mud lake is defined as Mud Lake or its tributaries at points affected by the backwaters of Mud Lake. Historically the term "Mud Lake" has been Mud Lake and Camas Creek downstream of T7N R35E Section 25, SWSWSE.

Divertable Volume: Water in Mud Lake above the elevation of 4773.99 feet, National Geodetic Vertical Datum of 1929.

Allotment Sheet: An accounting system maintained by the Watermaster consisting of the following: the (1) "Allotment" section which records volumes deliverable to holders of surface water rights; the (2) "Well Balance" section which records volumes deliverable to holders of ground water rights; and the (3) "Inflow/Outflow Accounting" section, which

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records evaporation and other losses, inflows, outflows, and mass-balance calculations.

Early Season Pumped Ground Water: Ground water diverted to storage in Mud Lake prior to May 1, under water right numbers: 31-332, 31-11339, 31-11429, 33-11430, 31-11432. It is accounted for in the Well Balance section of the Allotment Sheet.

Provisional Allotment: The Divertable Volume of Mud Lake on May 1, less Early Season Pumped Ground Water contributions, plus Water Delivered Prior to May 1, plus the anticipated natural inflows to Mud Lake for the current irrigation season. The Provisional Allotment is the volume of water anticipated to be deliverable to holders of surface water rights diverted from Mud Lake.

Final Allotment: The Divertable Volume of Mud Lake on May 1, less Early Season Pumped Ground Water contributions, plus Water Delivered Prior to May 1, plus the actual natural inflows to Mud Lake from May 1 to the date of the calculation of the Final Allotment. The Final Allotment is calculated when natural inflows to Mud Lake from Camas Creek have ceased and no further natural inflows are anticipated from Camas Creek. The Final Allotment is the actual volume of water deliverable to holders of surface water rights diverted from Mud Lake

Individual Allotment: The portion of the Provisional or Final Allotment allocated to an individual water user, according to the priority date and the sum of the volume of his/her surface water rights diverted out of Mud Lake.

Individual Allotment Balance: The Individual Allotment less the volume of withdrawals (including withdrawals made prior to May 1) and the cumulative total of the proportionate share of losses charged against the allotment.

Well Balance: The volume of stored water in Mud Lake that has been injected from ground water, from May 1 to November 1, or that has been injected from Early Season Pumped Ground Water.

Individual Well Balance: The portion of the Well Balance allocated to an individual water user, according to the injections made from that user's well(s), under that user's ground water right(s).

Positive Balance: An Individual Allotment Balance or Individual Well Balance with a value greater than zero.

Negative Balance: An Individual Allotment Balance or Individual Well Balance with a value less than zero.

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b. This General Provision shall apply to all water rights diverted or rediverted out of Mud Lake as defined for administrative purposes.

c. The Watermaster shall maintain the Allotment Sheet to show the ownership of Individual Allotment water and Well Balance water. Well Balances shall be recorded beginning with the date of the first pumping of wells or May 1, whichever is earlier. Allotment Balances shall be computed beginning May 1. The Allotment Sheet shall be maintained through November 1.

d. Ground water flowing without pumping into Mud Lake, prior to May 1 and after October 31, shall be accounted as natural inflow to Mud Lake and shall not be carried in any Well Balance or Individual Well Balance. Owners of wells capable of flowing without pumping into Mud Lake shall allow such wells to flow, and shall allow such water to accumulate in Mud Lake, prior to May 1 and after October 31.

e. All well water, whether naturally flowing or pumped, ~~diverted~~ from May 1 to November 1, shall be credited to the Individual Well Balance of the water user owning the well(s) and water right(s) under which the water is diverted.

f. Early Season Pumped Ground Water shall be credited to the Individual Well Balance(s) of the water user(s) owning the well(s) and water right(s) under which the water is diverted. These water rights are 31-332, 31-11339, 31-11429, 31-11430, and 31-11432.

g. On May 1 of each year, the Watermaster shall compute the Provisional Allotment and allocate it to the Individual Allotments of water rights defined in (b.) above, and record the Individual Allotments on the Allotment Balance section of the Allotment Sheet. Every fifteen days thereafter the Watermaster shall adjust the Individual Allotment Balances according to daily records of evaporation and other losses, and daily records of diversions. At the same time the Watermaster shall also adjust the Well Balance and Individual Well Balances according to daily records of evaporation and other losses, daily measured inflows, and daily records of diversions.

h. The Watermaster shall maintain daily records of natural inflows to Mud Lake from Camas Creek. At each fifteen-day recalculation interval, the Watermaster may if necessary adjust the Provisional Allotment and recalculate the Individual Allotments to correspond to actual natural inflows and revised anticipated natural inflows.

i. At such time as Camas Creek ceases to contribute water to Mud Lake, and no further contributions are anticipated in the current irrigation season, the Watermaster shall compute a Final Allotment and recalculate Individual Allotments.

j. At such time that all Individual Allotments cannot be completely filled, the Allotment and Individual Allotments shall be recalculated to prevent injury to holders of senior surface

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water rights.

k. At each fifteen-day recalculation interval, all evaporation and other losses shall be proportioned according to the volume of water recorded in each respective Individual Allotment Balance or Individual Well Balance and charged against these balances.

l. Positive Balances shall not be carried forward past November 1.

m. Negative Balances shall be carried forward to the subsequent irrigation seasons Allotment Sheet and charged against the Individual Allotment Balance on May 1. If Negative Balances are in excess of the calculated Individual Allotment, the excess amount shall be charged against the Individual Well Balance on May 1. (I still worry that this provision is implicit approval to exceed the water right -- which is the only way, other than calculation errors, to have a negative balance).

n. The Watermaster may determine that the water user(s) may not withdraw more than 35% of the Individual Allotment in any calendar month if necessary to prevent injury to other water users. All water, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's Individual Allotment.

CLAIMANT MUD LAKE WATER USERS, INC.

_____

Gerald Messerli, President Date signed

CLAIMANT DOBSON RANCH PARTNERSHIP

_____

Andy Dobson, Partner (Cannot be president of a partnership?) Date Signed

CLAIMANT LEVEL CANAL CO., INC.

_____

Wilfried Smith, President Date signed

CLAIMANT JALENE OR KEITH SHULDBERG, HUSBAND AND WIFE

_____

Keith Shuldberg Date signed

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CLAIMANT VAN OR JOAN BURTENSHAW, HUSBAND AND WIFE

_____

Van Burtenshaw Date signed

CLAIMANT DON OR BEVERLY BURTENSHAW, HUSBAND AND WIFE

_____

Don Burtenshaw Date signed

CLAIMANT INDEPENDENT WATER USERS, INC.

_____

Andy Dobson, President Date signed

IDWR CONCURRENCE

_____

Date signed

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ACKNOWLEDGMENTS

STATE OF IDAHO)
) ss.
County of _____)

I, _____, a notary public, do hereby certify on this _____day of _____, 2001, personally appeared before me _____, who, being by me first duly sworn, declared that he/she is the _____ of _____ and that he/she signed this *Agreement re Mud Lake Water Administration* in his official capacity, and that the statements contained herein are true.

_____
Notary Public for Idaho
Residing at _____

(Notarial Seal) My Commission expires _____

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MEMORANDUM

To: Mud Lake Water Users General File
A31-332
A31-11430
A31-11432
Fr: Bryce Contor
Date: 2/23/2001

Re: Office visit

Today I visited in the office with chairman Jerry Messerli, retired chairman Garth Soderquist, and manager Shawn Grover.

We discussed the attached memo on loss calculations and total recommended volumes. I told them that the current recommendations totaled about 195,000 acre feet but that I felt this was an error. Based on the transfer, the calculations of actual need, and the calculations of capacity, I should have added a combined use limitation to the 174,195 acre feet authorized by transfer 5335.

There are two reasons for this proposed combined limitation: 1) My charge is to recommend the water rights as accurately as possible, and this appears to more accurately reflect historical usage. 2) The 174,195 acre feet figure is defensible against objection because it was approved in a post-1987 formal transfer, and any objectors have already had due process during that administrative action.

We carefully reviewed the calculations, and it appears that 174,195 acre feet is adequate to meet the irrigation needs, losses in canals from the lake to place of use, losses in the lake, and losses from the points of diversion to the lake. It is true that the company also holds surface rights, but there are years in which little or no surface water is available, so the well rights must be adequate to provide all the company's needs.

The three gentlemen here today felt this would be acceptable, but they want to take it back to the board. I suggested it might be worthwhile to have a professional engineer review the loss calculations, and told them I had to have any requests for change back by March 20.

The tentative decision is that unless the board and/or the consultant disagree, I will add the combined use limitation but otherwise recommend the rights as proposed in the preliminary. Because I didn't catch the need for the combined use limitation early-on, and include it on the preliminary report, I feel I shouldn't add it now if they disagree.

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MEMORANDUM

To: Mud Lake Water Users General File
31-11430 31-332
31-11432

Fr: Bryce Contor

Date: 2/17/01

Re: Loss Calculations

I. Loss in Lake

Watermaster Records, 1996, show 29,730 acre ft. lake loss.

GW recommendations via lake total:

MLWUA	24,261.3
Independent + Dobson	4,109.0
	28,370.3 acres

Loss/acre = 29,730/28,370.3 = 1.05 acre ft/acre

24,261.3 x 1.05 = 25,474.4 acre feet

II. Loss in Canals fr. Lake to Places of use

a) Jackett - $\frac{3 \text{ miles} \times 5280 \text{ ft} \times 20 \text{ ft}}{43560 \text{ ft}^2/\text{acre}} = 7.3$ acres

b) Holley - $\frac{5 \text{ miles} \times 5280 \text{ ft} \times 25 \text{ ft}}{43560 \text{ ft}^2/\text{acre}} = 12.2$ acres

c) Owsley - $\frac{14 \text{ miles} \times 5280 \text{ ft} \times 40 \text{ ft}}{43560 \text{ ft}^2/\text{acre}} = 67.9$ acres

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Total 87.4 acres × 0.2 in/hr* × 1 ft/12 in × 24 hrs/day = 35.0 cf/da

35 acre ft/day × 185 days = 6,475 acre ft.

III. Field headgate requirement

24,261.3 × 3.5 = 84,914.6 acre ft.

IV. Total Required in Lake (Delivered to Lake)

Lake loss	25,474.4	acre feet
Canal loss	6,475.0	acre ft
Field headgate	84,914.6	acre ft
	116,864.0	acre ft.

V. Required at Pump

Watermaster records indicate up to 39% loss in Independent / Jackett Ditch. Holley & Owsley wells are right on Cameo Creek & therefore no loss is allowed. North Lake ditch looses up to 20.4% per USGS study.

These losses are pro-rated to required

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* [illegible]

acre feet by proportion of pumping capacity &/or original acres.

Assume North Lake ≈ 1/3 of Dwsley Capacity x 17800 original dwsley acres = 5933 acres

Jackett = 3100 acres per merger documents.

North Lake requirement = 116864 x 5933/24261 = 28,600

28,600/(100% - 20.4%) = 35,930 acre ft

Jackett Requirement = 116864 x 3100/24261 = 14,933

14,933/(100% - 39%) = 24,480 acre ft

Bybee/Holley = 116864 - (28,600 + 14,933) = 73,331

Total Req. @ diversions

Jackett	24,480
North Lake	35,930
Bybee/Holley	73,331
Total	133,741 acre ft.

VI. Max volume during irr season at max rate

503 x 1.9835 x 185 = 184,575

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MLWU p 4

VII. Required volume for Ewb pumping

Waterwatch records show 26,394 acre ft stored in lake in 1991.

Previous Calculations showed requirement of 26,434 (from MLWU) required to fill lake in a dry year.

VIII. 61 day volume & 185-day volume at 1995 Capacity

310 Owsley Ditch (from 1995 Ewb-pumping records)

47 Holley (from decreed rates)

357 cfs

357 x 1.9835 x 61 = 43,195

357 x 1.9835 x 185 = 131,000

174,195

IX. Authorized volume per T 5335 is 174,269.3

Proposed volume for Dom. use claims is an additional 21,434

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MLWA PS

Total proposed volume = 195,703

Total capacity (1995) = 174,195

Total requirement @ well = 133,741

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Summary of MCWA Surface recommended Volumes:

B. Corton 2/17/2001

31-2276	Wastewater Vol. for License. Not avail from labs, not incl. in totals		44.3
Owsley Division & Lake			
31-6	Decreed	1.4 x 2 x 123	344.4
31-34	Decreed	3.2 x 2 x 123	787.2
31-35	Decreed	6.4 x 2 x 123	1574.4
31-36	Decreed	9.6 x 2 x 123	2361.6
31-37	Decreed	6.4 x 2 x 123	1574.4
31-38	Decreed	0.8 x 2 x 123	196.8
31-52	Decreed	2.5 x 2 x 123	615
31-65	Decreed	3.0 x 2 x 123	738
31-104	Decreed	3.0 x 2 x 123	738
31-105	Decreed	1.6 x 2 x 123	393.6
31-147A	Decreed	4.0 x 2 x 123	984
31-159	Decreed	2.44 x 2 x 123	600.2
31-162	Decreed	1.0 x 2 x 123	246
31-163	Decreed	1.0 x 2 x 123	246
31-166	Decreed	1.72 x 2 x 123	423.1
31-168	Decreed	1.6 x 2 x 123	393.6
31-169	Decreed	1.6 x 2 x 123	393.6
31-184	Decreed	80.8 x 2 x 123	19876.8
31-185	Decreed	72.6 x 2 x 123	17859.6

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31-186	75 x 2 x 123	18450
31-187	25 x 2 x 123	6150
31-188	1.6 x 2 x 123	393.6
31-232	1.6 x 2 x 123	393.6
31-237	2.4 x 2 x 123	590.4
31-263	2.68 x 2 x 123	659.3
31-363	6.4 x 2 x 123	1574.4

Total of Owsley Division Surface rights 78557.6 af

78557.6 / 17818 = 4.41 af/acre

Jackett Division

31-134	3.5 x 2 x 123	861
31-135	2.5 x 2 x 123	615
31-143	1.0 x 2 x 123	246
31-144	1.0 x 2 x 123	246
31-190	5.9 x 2 x 123	1451.4
31-192	3 x 2 x 123	738

Total of Jackett Division Surface rights 4157.4

4157.4 / 3107.3 = 1.34 af/acre

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MLWU Suf. p3

Holley Division

31-134	1.7 x 2 x 123	418.2
31-345	0.8 x 2 x 123	196.8
31-354	0.8 x 2 x 123	196.8
31-355	0.8 x 2 x 123	196.8
31-360	3.0 x 2 x 123	738.0
31-361	2.4 x 2 x 123	590.4
31-10957	2.5 x 2 x 123	615.0
31-10958	2.7 x 2 x 123	664.2
31-10959	7.98 x 2 x 123	1963.1
31-10960	2.36 x 2 x 123	580.6
31-10961	6.18 x 2 x 123	1520.3
31-10962	1.94 x 2 x 123	477.2
	Total	8157.4

8157.4 / 2978 acres = 2.74 af/acre

Total for MLWU	afs	acres
Owsley division	78,557.6	17818.0
Jackett division	4,157.4	3107.3
Holley division	8,157.4	2978.0
	90,872.4	23,903

90,872.4 / 23,903.3 = 3.80

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Contor, Bryce
From: Tuthill, Dave
Sent: Thursday, December 28, 2000 11:55 AM
To: Contor, Bryce; McHugh, Candice
Cc: Carlsen, Ernie; Fritschle, Carter
Subject: RE: Early Pumping remark

Looks good to me.

Dave

-----Original Message-----
From: Contor, Bryce
Sent: Thursday, December 28, 2000 10:41 AM
To: McHugh, Candice; Tuthill, Dave
Cc: Carlsen, Ernie; Fritschle, Carter
Subject: RE: Early Pumping remark

I forgot to mention a detail I learned yesterday from the watermaster: There are years when early-pumped water does need to be delivered as an "April draft." This is contrary to what I had told y'all earlier. Can we use:

> **Early Season Pumping**: Upon submission of a pumping plan by the holders of water rights 31-332, 31-11339, 31-11429, 31-11430, and 31-11432, the Watermaster, under the direction of the Director of the Idaho Department of Water Resources, may authorize diversion to storage and irrigation storage under this right as early as March 1, and irrigation from storage as early as April 1. Any diversion or use of water before May 1 under this remark shall have a priority date of June ~~1~~5, 1961.

-----Original Message-----
From: **McHugh, Candice**
Sent: Thursday, December 28, 2000 9:33 AM
To: Tuthill, Dave
Cc: Carlsen, Ernie; Contor, Bryce; Fritschle, Carter
Subject: RE: Early Pumping remark

Dave --

This is the latest version of the early season pumping remark that I have. Is this the version that Bryce should use?

Early Season Pumping: Upon submission of a pumping plan by the holders of water rights 31-332, 31-11339, 31-11429, 31-11430, and 31-11432, the Watermaster, under the direction of the Director of the Idaho Department of Water Resources, may authorize diversion to storage and irrigation storage under this right as early as March 1. Any diversion of water before May 1 under this remark shall have a priority date of June ~~1~~5, 1961.

Candice

Confidentiality Notice: This e-mail may contain confidential and privileged information exempt from disclosure under applicable law. This message is intended only for the use of the individual or individuals identified above. If you have received this message by mistake, please notify the sender immediately by replying to this message. Please delete the message from your system and

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BASIN 31 General Provisions

1. Allotment System:

a. This general provision applies to all water rights having points of diversion from Mud Lake or its tributaries at points affected by the backwaters of Mud Lake.

b. On or about May 1st of each year and every 15 days thereafter during the irrigation season, the ~~Director of the Idaho Department of Water Resources ("Director~~ Watermaster~~")~~ shall compute the amount of water that may be available in Mud Lake for diversion and use during the irrigation season. This computation shall be the ~~p~~Provisional A~~a~~llotment in acre-feet for the irrigation season. The P~~p~~rovisional ~~a~~Allotment shall include the D~~d~~ivertable V~~v~~olume of Mud Lake on May 1 (less E~~e~~arly--S~~s~~season G~~g~~round W~~w~~ater volumes pumped under water rights _____, _____, _____, _____), W~~w~~ater U~~u~~sed P~~p~~rior to May 1, and the anticipated natural inflows to Mud Lake. The Watermaster~~Director~~ shall allot this computed volume to the Individual Allotments of holders of water rights as defined in General Provision 1(a) in the order of respective water right priority dates. Subsequent computations shall adjust the Provisional and Individual ~~a~~Allotments according to actual natural inflows and revised anticipated natural inflows. At such time as Camas Creek has ceased to flow into Mud Lake for the season, a Final Allotment shall be calculated in the same manner as the Provisional Allotment was calculated, substituting actual natural inflows for anticipated inflows. At the time of calculation of the Final Allotment, Individual Allotments shall be recalculated in order of the respective priority of the water rights. At such time that all Individual ~~a~~Allotments cannot be completely filled, delivery shall be curtailed by water right priority date. Each Individual

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~~a~~Allotment shall be charged its proportionate part of the evaporation and other losses in the lake. There shall be no carryover of Positive ~~allotments~~ Balances from the previous irrigation season, but Negative Balances shall be carried forward and charged against the next season's Individual Allotment on May 1.

c. The Watermaster shall maintain an accounting of ground water stored in the lake in the section of the Allotment Sheet known as the Well Balance section. The accounting shall include records of groundwater contributions to storage, diversions of stored ground water, and a proportionate share of losses, by water user. The calculations shall be performed in the same manner as the calculations for Individual Allotment Balances.

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B31 Definitions

Mud Lake:	For purposes of administration, Mud lake is defined as "Mud Lake or its tributaries at points affected by the backwaters of Mud Lake." Historically this has been Mud Lake and Camas Creek downstream of the dike and screw gates located in T7N R35E Section 25, SW 1/4 of the SE 1/4, the location known locally as Bybee Bridge. This location could change with changes in the physical structures built on Camas Creek or Mud Lake.
Watermaster:	The administrator of water rights in Basin 31, elected and/or appointed pursuant to Idaho Code 42-605.
Divertable Volume:	Water in Mud Lake capable of being diverted. It is that water above the minimum elevation from which the diversion works can extract water. Historically the water above -1.0 feet on the USGS gage has been considered divertable, but this value could change as a result of changes in the gage datum, changes in the lake topography, or general changes in diversion works.
Allotment Sheet:	An accounting system maintained by the Watermaster. It includes the "Allotment" section which records volumes deliverable to holders of surface water rights, the "Well Balance" section which records volumes deliverable to holders of ground water rights, and the "Inflow/Outflow Accounting" section, which records evaporation and other losses, inflows, outflows, and mass-balance calculations.
Early Season Ground Water:	Ground water diverted to storage prior to May 1 under the Early Season Pumping remark. It is accounted for in the Well Balance section of the Allotment Sheet.
Water Diverted Prior to May 1:	Surface water diverted from Mud Lake after March 31 and prior to May 1. It is added to the Provisional Allotment calculation as water having been available for use in the current irrigation season, but deducted as a draft from the Individual Allotment balance of the water user who diverted it.
Allotment:	The volume of water to be allocated among holders of surface water rights diverted out of Mud Lake, either the Provisional Allotment or the Final Allotment as defined below.
Provisional Allotment:	The Divertable Volume of Mud Lake on May 1, less Early Season Ground water Contributions, plus Water Diverted Prior to May 1, plus the anticipated natural inflows to Mud Lake for the current irrigation season. The Provisional Allotment is the volume of water anticipated to be deliverable to holders of surface water rights diverted from Mud Lake and is to be allocated to individual right holders in order of priority.

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Final Allotment:	The Divertable Volume of Mud Lake on May 1, less Early Season Ground water Contributions and Water Delivered Prior to May 1, plus the actual natural inflows to Mud Lake from May 1 to the date of the calculation of the Final Allotment. Calculated when natural inflows to Mud Lake via Camas Creek have ceased and no further natural inflows are anticipated via Camas Creek. The Final Allotment is the actual volume of water deliverable to holders of surface water rights diverted from Mud Lake and is to be allotted to individual right holders in order of priority.
Individual Allotment:	The portion of the Allotment allocated to an individual water user, according to the volumes and priority dates of his/her surface water rights diverted out of Mud Lake, relative to the volumes and priority dates all the surface water rights diverted out of Mud Lake.
Individual Allotment Balance:	The Individual Allotment less the cumulative total of withdrawals and the cumulative total of the proportionate share of losses charged against the allotment.
Well Balance:	The volume of stored water in Mud Lake that has been injected from ground water, after April 30 and before November 1, or that has been injected from Early Season Groundwater pumping.
Individual Well Balance:	The portion of the Well Balance allocated to an individual water user, according to the injections made from that user's well(s), under that user's ground water right(s).
Positive Balance:	An Individual Allotment Balance or individual Well Balance with a value greater than zero.
Negative Balance:	An Individual Allotment Balance or individual Well Balance with a value less than zero.

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MUD LAKE PRESEASON PUMPING AGREEMENT

April 7, 1997

At a meeting held in Mud Lake, Idaho, April 7, 1997, a preseason pumping agreement was adopted for the 1997 irrigation season.

In attendance at this meeting, representatives of all the water user groups of Mud Lake were in attendance plus private water users Burtenshaw Bros. Water user groups represented were the following: Owsley Canal Co., Jackett Canal Co., Independent Water Users, Level Canal Co., and Holley Water Users.

Purpose of the meeting was to decide what lake level would be needed to provide enough water for the first heavy drafts of water for irrigation on May 1st, and until Camas Creek and its tributaries flowed enough water into Mud Lake to sustain irrigation thereafter.

A lot of discussion was had on a desired water level and the risk of over pumping and creating a hazard but still getting enough to sustain early pumping. It was decided to start pumping at as late a date as possible and still reach a 4.5 G.H. by May 1, 1997. It was further decided to reduce this pumping level if stormy conditions existed and demand for early irrigation demand appeared to be low.

Discussion was then had on the method of pumping needed to get the best and fairest desired lake level. Two methods discussed was by getting credit to each pumper the amount he pumped or by all pumpers pumping full capacity for the last 15 days of April and allotting the waters strictly by the decree. It was decided to use the decree method and allot lake capacity only without credit by pumping.
Both desired lake gauge and method of pumping was agreed on by all of the under singed.

Owsley Canal Co. President

Ind. User Assn. President

Jackett Canal Co. President

Holley Water User President

Level Canal Co. President

Keith Shuldberg

Burtenshaw Brothers

Andy Dobson

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MUD LAKE PRESEASON PUMPING AGREEMENT

March 9, 1995

At a meeting held in Mud Lake, Idaho, March 9, 1995, a preseason pumping agreement was adopted for the 1995 irrigation season.

In attendance at this meeting, representatives of all the water user groups of Mud Lake were in attendance plus private water users Burtenshaw Bros. Water user groups represented were the following: Owsley Canal Co., Jackett Canal Co., Independent Water Users, Level Canal Co., and Holley Water Users.

Purpose of the meeting was to decide what lake level would be needed to provide enough water for the first heavy drafts of water for irrigation on May 1st, and until Camas Creek and its tributaries flowed enough water into Mud Lake to sustain irrigation thereafter.

A lot of discussion was had on a desired water level and the risk of over pumping and creating a hazard but still getting enough to sustain early pumping. It was decided to start pumping at as late a date as possible and still reach a 4.5 G.H. by May 1, 1995. It was further decided to reduce this pumping level if stormy conditions existed and demand for early irrigation demand appeared to be low. A motion was made by Andy Dobson and second by Garth Soderquist for the 4.5 G.H. level.

Discussion was then had on the method of pumping needed to get the best and fairest desired lake level. Two methods discussed was by getting credit to each pumper the amount he pumped or by all pumpers pumping full capacity for the last 17 days of April and allotting the waters strictly by the decree. It was decided to use the decree method and allot lake capacity only without credit by pumping. This method of allotment was made by and motioned by Andy Dobson and second by Garth Soderquist.

Both motions were unanimous and an aye vote cast by every water user.

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Garth Soderquist 3/14/95
Owsley Canal Co. President

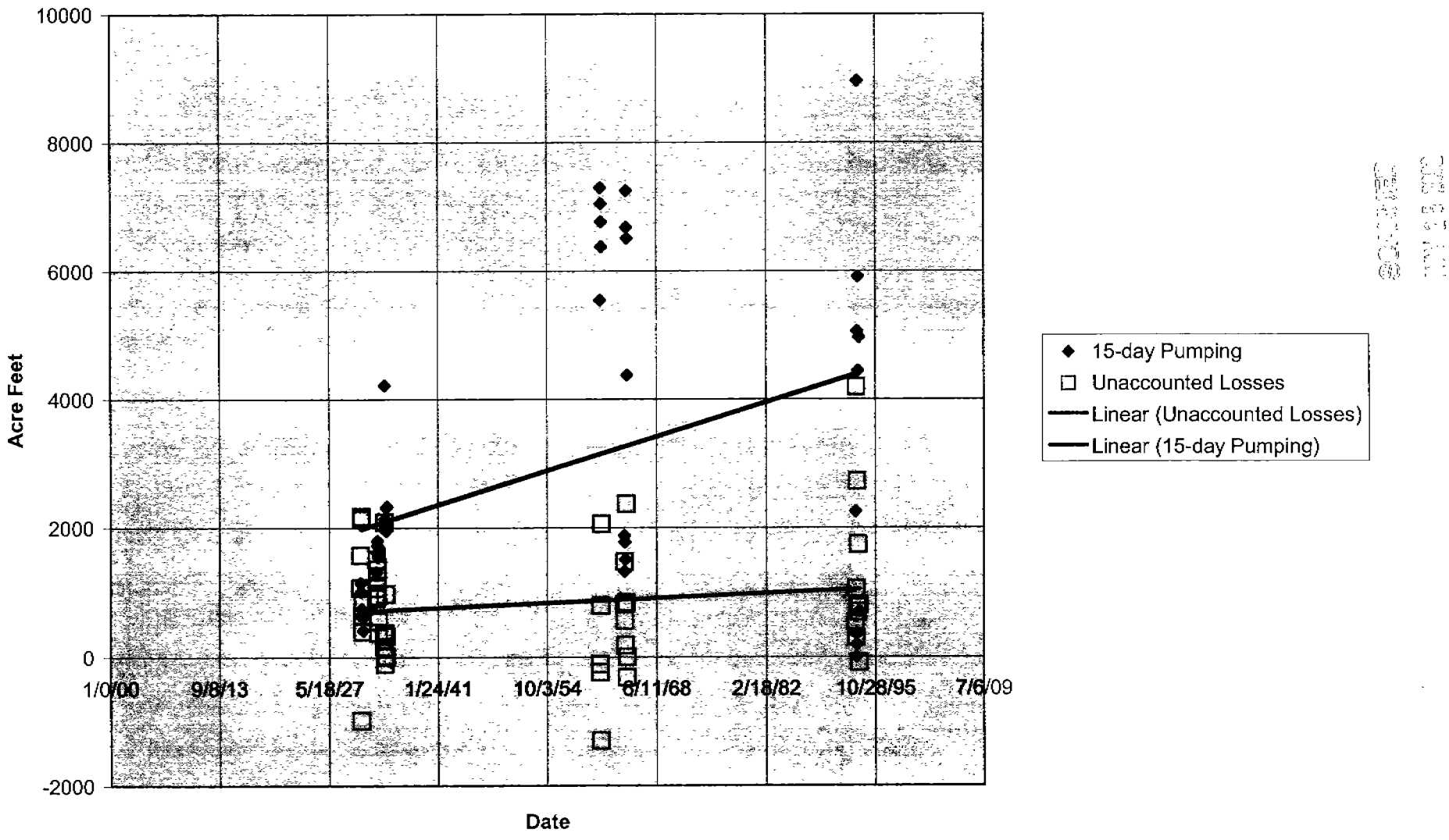
Ind. User Assn. President

Edgar Green 3/14/95
Jackett Canal Co. President

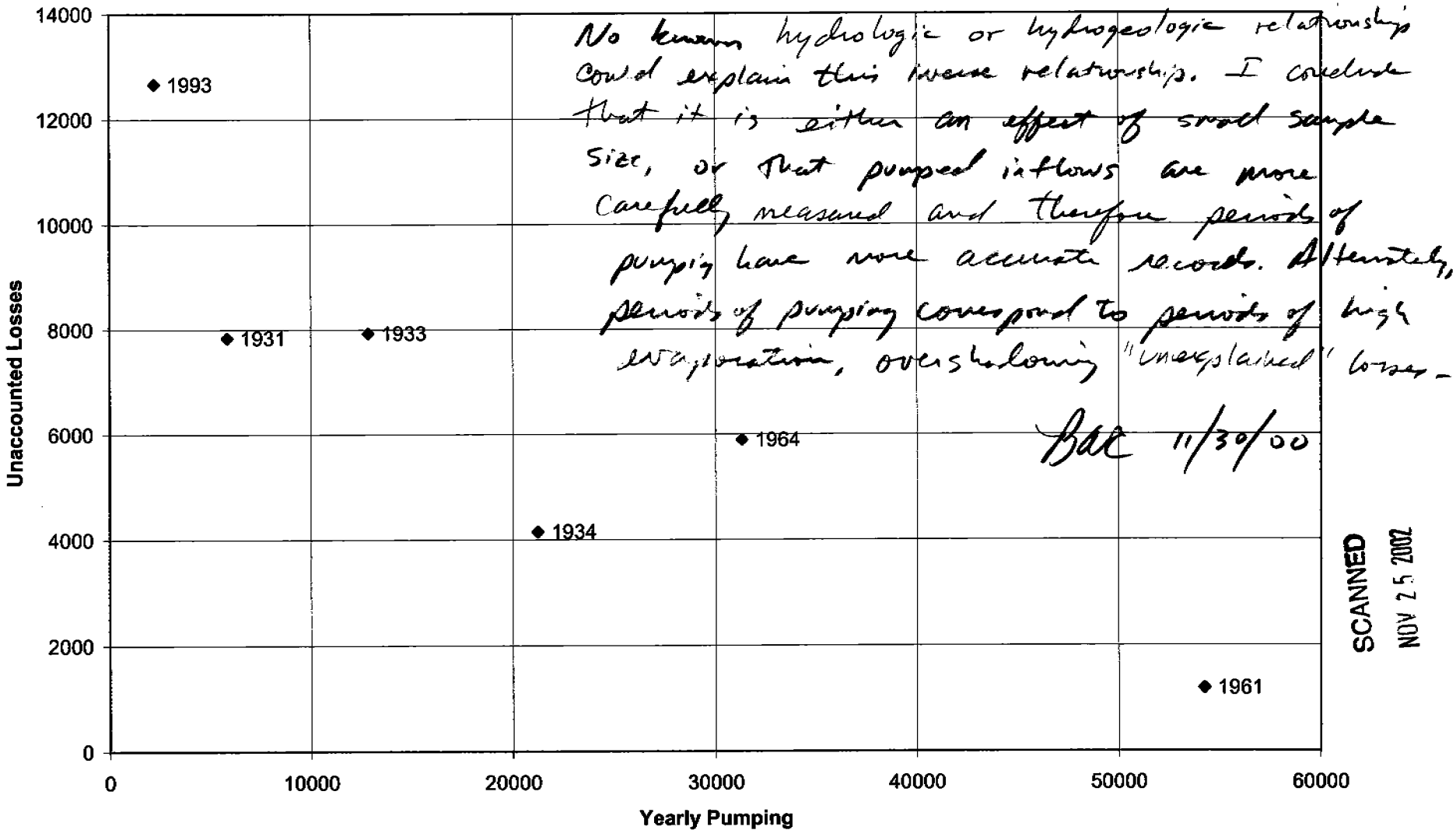
Carl Hoggan 3-14-95
Holley Water User President

Don Baker 3-14-95
Level Canal Co. President

Keith Shuldberg 3-14-95
Keith Shuldberg


Losses and Pumping By Period
10000
8000
6000
4000
2000
0
-2000
Acre Feet
1/0/00
9/8/13
5/18/27
1/24/41
10/3/54
6/11/68
2/18/82
10/28/95
7/6/09
Date
15-day Pumping
Unaccounted Losses
Linear (Unaccounted Losses)
Linear (15-day Pumping)

Yearly Pumping and Unaccounted Losses



No known hydrologic or hydrogeologic relationship could explain this inverse relationship. I conclude that it is either an effect of small sample size, or that pumped inflows are more carefully measured and therefore periods of pumping have more accurate records. Alternately, periods of pumping correspond to periods of high evaporation, overshadowing "unexplained" losses.

Bac 11/30/00

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MEADOWLARK FARM
Bryce & Valene Contor
HC65, Box 1058
Howe, ID 83244

Historical Perspective

1) Swave - 1930
   a) Estimated Inflow
   b) Volumes not rates
   c) "Independent Source" provision

1940

2) Bawerly - dispute over GW
   "Ind" or "tnb"
   addressed artesian flow GW

3) Early-pumping agreement - (1961)
   addressed pumping GW. (1981)

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Operation — 2 "balances" → allotment balance, well balance

4 classes of water (Note that all users have surface source & GW source)

1) Natural inflow from surface tributaries
   - part of "allotment" per 1930 Suave

2) Artesian Flow prior to May 1
   - part of "allotment" per 1940 Bauer

3) All well flow after May, Artesian or Pumped
   - property of well owner per 1940 Bauer
   - accounted in "well balance" of allotment sheet per historical practice

4) "Early Pumping" well water pumped prior to May 1
   - property of well owner per 1961 direction from Carter to Shenton, and per 1980's "Early Pumping Agreement."

Process

May 1 - content + estimate = allotment
adjust for evap, pumping,
April Draft, "Bottom of pool."

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- Every 15 days
  - review inflows & drafts
  - mass balance + evap pan → losses
  - losses apportioned by stored volume

- When Carmen Creek quits flowing
  "find allotment"

- Overdrafts either replaced by pumping
  or carried forward to next year

- No carryover of "positive" balances
  - implicit in Suave
  - by resolution

GW in Suave

31-0062
31-0063
31-0103 } (allows future development)
31-0100 } (surface-GW?)
31-0101 }
31-0102 }

(None via lake)

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Non-Trib Surface Decree

FN3465	31-160	Spring Lake (Sauer)	claimed GW
	161		
	170	Spring Lake	not claimed
	171		
	172		
	182	Spring Lake	not claimed
	183		
	266	Spring Lake	not claimed
	377	" "	not claimed.

GW converted to Surface

31-95/96 (Marty - Barnett, confirm conversion)
31-160A, B
31-161A, B
(Jefferson Lake?)

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4913A - Buff
8913A - Green
4213A - White

Water District No. 31 Summary of Mud Lake Season of 1996

		Water Users	1 Allotments	2 July Reallocation	3 Transfer From	4 Transfers To.	5 In Flows	6 over Flow INEL.	7 USE	8 Loss	9 April Draft	10 Balance 10-31-96	11	12	13
1		Shuldberg	418	ø	ø	ø	615	ø	606	420	ø	7			
2															
3	Holly	Owsley Canal Co.	ø	ø	ø	ø	1,402	ø	818	251	ø	333			
4															
5	JCC	Owsley Canal Co.	ø	ø	ø	ø	4,200	ø	4,200	ø	ø	ø			
6															
7		Owsley Canal Co.	18710	4,838	ø	ø	73,318	ø	68,018	20,052	ø	8,796			
8															
9		Level Canal Co.	394	4,038	ø	ø	7,538	ø	5,110	5,607	ø	1,253			
10															
11		Dobson Ranch	1,540	378	ø	ø	2,585	ø	2,430	1,964	ø	109			
12															
13		Joe Potter	198	48	ø	ø	388	ø	250	320	ø	64			
14															
15		Don Burtenshow	ø	ø	ø	ø	2262	ø	998	1,116	ø	148			
16															
17															
18		Totals.	21,260	9,302	ø	ø	92,308	ø	82430	29,730	ø	10,710			
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															

Date 4/5/00 Sig. B Carter
****
Claim Mud Lake Storage
Doc Source Watermaster WD 31

4913A - Buff
8913A - Green
4213A - White

Water District No. 31 Summary Season of 1993

Water Users	Allotments	July Allocation	Transfer from	Transfer To	Inflows	Overflow to INEL	Use	Loss	April Draft	Balance 10-31-93
Shuldberg	4 18	4 18		3 00	1 82	0	3 28	4 15	0	1 57
Holley Water Users (Spill to Burtenshaw)	0	0			16 38	0	7 12	4 09	0	5 17
Jackett Canal Co.	1,1 07	19 68			68 63	0	50 48	25 63	0	1,2 20
Owsley Canal Co.	18,0 22	224 50			455 57	0	452 94	175 49	0	5,1 64
Level Canal Co.	3 94	59 04	- 6 02		22 37	0	42 32	28 03	0	5 04
Dobson Ranch	15 82	19 18			7 67	0	13 56	12 17	0	1 12
Joe Potter	1 97	2 46			1 15	0	1 08	2 11	0	42
Don Burtenshaw	0	0		3 02	6 71	0	7 38	2 41	0	(-6)
Totals	217 20	329 04	- 6 02	+ 6 02	580 30	0	578 16	254 08	0	7,7 10

Date 3/31/00 Sig. B. Conlon
****
Claim Mud Lake Storage
Doc Source Greg Shenton
Watermaster, WD 31

'93

Ind. 3248

NI By the Dec 16278

19526

29200
-18690
10510
1790
8720
-20 00

21720
-6720
15,000 initial estimate?

Mtg w/ Karl & Norm 11/20/00

Definitions

1) Define Watermaster

2) Define "positive" & "negative" balance.

3) Provisional allotment

4) Divertable Volume

5) Less early season GW

6) Define Water diverted prior to May 1 (April drop)

Question

proposed by holders of WR, approved by WM, subject to conj. mgt.

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DRAFT 11-2-00
Basin 31 General Provisions

1. Allotment System:

a. This general provision applies to all water rights having points of diversion from Mud Lake or its tributaries at points affected by the backwaters of Mud Lake.

b. On or about May 1st of each year and every 15 days thereafter during the irrigation season, the Watermaster under the ~~authority of~~ the Director of the Idaho Department of Water Resources ~~("Watermaster")~~ shall compute the amount of water that may be available in Mud Lake for diversion and use during the irrigation season. This computation shall be the provisional allotment in acre-feet for the irrigation season. The provisional allotment shall include the divertable volume of Mud Lake on May 1 (less early-season ground water volumes pumped under water rights ____, ____, ____, ____), water used prior to May 1, and the anticipated natural inflows to Mud Lake. The Watermaster shall allot this computed volume to the holders of water rights as defined in General Provision 1(a) in the order of respective water right priority dates. Subsequent computations shall adjust the allotments according to actual natural inflows and revised anticipated natural inflows. ~~At such~~ time that all allotments cannot be completely filled, delivery shall be curtailed by water right priority date. Each allotment shall be charged its proportionate part of the evaporation and other losses in the lake. There shall be no carryover of positive allotments from the previous irrigation season.

c. The Watermaster may determine that the water user(s) may not withdraw more than 35% of the allotment in any calendar month if necessary to prevent injury to other water users. All water, whenever used, including water used prior to May 1st and after ~~September 1st~~ Aug 31st, shall be charged against the water user's allotment.

2. Conjunctive Management: [USE MOST RECENT LANGUAGE]

The following surface water rights from the following source of water in Basin 31 shall be administered separately from all other surface water rights in Basin 31:

None.

All water rights within Basin 31 are from connected sources of water in the Snake River Basin and shall be administered conjunctively.

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Basin 31 Remark (on the individual water right)

Early Season Pumping: The Watermaster may authorize diversion to storage and irrigation storage under this right as early as March 1. Any diversion of water before May 1 under this remark shall be subject to ~~the Watermaster's~~ a submitted pumping plan ~~approved~~ by the holders of water rights ____, _____, ____, and _____, and shall have a priority date of June ~~1~~ 5, 1961.
→ and approved by the Watermaster.

Basin 31 Explanatory Remarks

Diversion Volume: The diversion volume described above was calculated by multiplying the diversion rate of ____ by 2.0 acre feet per day for 123 days.

For Ground Water Storage: Water stored under this right shall be charged its proportionate part of the evaporation and other losses in the lake.

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BASIN 31 General Provisions

1. Allotment System:

a. This general provision applies to all water rights having points of diversion from Mud Lake or its tributaries at points affected by the backwaters of Mud Lake.

b. On or about May 1st of each year and every 15 days thereafter during the irrigation season, the watermaster under the authority of the Director of the Idaho Department of Water Resources ("~~Director~~ Watermaster") shall compute the amount of water that may be available in Mud Lake for diversion and use during the irrigation season. This computation shall be the provisional allotment in acre-feet for the irrigation season. The provisional allotment shall include the divertable volume of Mud Lake on May 1 (less early-season ground water volumes pumped under water rights _____, _____, _____, _____), water used prior to May 1, and the anticipated natural inflows to Mud Lake. The Watermaster~~Director~~ shall allot this computed volume to the holders of water rights as defined in General Provision 1(a) in the order of respective water right priority dates. Subsequent computations shall adjust the allotments according to actual natural inflows and revised anticipated natural inflows. At such time that all allotments cannot be completely filled, delivery shall be curtailed by water right priority date. Each allotment shall be charged its proportionate part of the evaporation and other losses in the lake. There shall be no carryover of positive allotments from the previous irrigation season.

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c. The ~~Director~~Watermaster may determine that the water user(s) may not withdraw more than 35% of the allotment in any calendar month if necessary to prevent injury to other water users. All water, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's allotment.

2. Conjunctive Management: [USE MOST RECENT LANGUAGE]

The following surface water rights from the following source of water in Basin 31 shall be administered separately from all other surface water rights in Basin 31:

None.

All water rights within Basin 31 are from connected sources of water in the Snake River Basin and shall be administered conjunctively.

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Basin 31 Remark (on the individual water right)

Early Season Pumping: The ~~Director~~Watermaster may authorize diversion to storage and irrigation storage under this right as early as March 1. Any diversion of water before May 1 under this remark shall be subject to the Watemaster's ~~a~~ pumping plan approved by the ~~Director~~holders of water rights ____, ____, ____, and ____, and shall have a priority date of June 1, 1961.

FMC 5

Basin 31 Explanatory Remarks

Diversion Volume: The diversion volume described above was by a factor of calculated by multiplying the diversion rate of ____ by 2.0 acre feet per day for 123 days. (May 1 - Sept 1)

For Ground Water Storage: Water stored under this right shall be charged its proportionate part of the evaporation and other losses in the lake.

Season of Use

Season of Use

Surface Water Storage
Surface Storage: 1/1 to 12/31
Irrigation from Storage: 4/1 to 10/31

Ground Water Storage
Irrigation Storage: 5/1 to 10/31 (w/ remark allowing early storage)
Irrigation from Storage: 5/1 to 10/31 ~~(w/ remark allowing early diversion)~~
Diversion to Storage: 5/1 to 10/31 (w/ remark allowing early diversion)

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Contor, Bryce
From: Contor, Bryce
Sent: Wednesday, August 23, 2000 12:39 PM
To: McHugh, Candice; Music, Vicky
Subject: FW: Transfer 5335

-----Original Message-----
From: **Contor, Bryce**
Sent: Wednesday, August 23, 2000 12:12 PM
To: Carlson, Ron
Cc: Hamlin Nygard, Susan; Jones, Harold (Skip); Carlsen, Ernie
Subject: Transfer 5335

This transfer was issued in 1999 on 24 groundwater rights, totalling 643.21 cfs, on 24,261.3 acres.

The only intent of the transfer was to combine land lists of three canal companies which had merged, making all the rights appurtenant to all the lands on a permissible place of use basis.

The transfer formalized (cast in stone) all the elements of the water right, even though Allocations did not have the resources to fully investigate. The list that follows shows items that are at a variance with what I now wish I could recommend:

1) Period of use for irrigation. Transfer imposed the then-current IDWR standard. I want to recommend per historical beneficial use and current IDWR standard.

2) Period of use for diversion to storage. Transfer gave 1-/16 to 4/14, the non-irrigation season. I want to recommend consistent with other storage claims, exact period yet to be determined in phone conference tomorrow.

3) Diversion rate for 31-00328. Transfer authorizes 110 cfs for irrigation. I want to recommend 100 cfs per original decree.

4) Priority dates. Four rights were given priority 0/00/0000. I want to recommend original decreed priority.

5) POD's. The number of diversions, and the locations, as supplied by the claimant, do not match field inspection. Diversions exist in quarter-quarters not listed on the transfer, and quarter-quarters on the transfer do not contain active diversions. More total diversions exist than listed.

6) Typo in legal descriptions for POD's. One POD is listed in "Lot 4 (SESW), Sec 18" but Lot 4 actually corresponds to the SWSW. One pod is listed in "SWNW, Section 19" but actually should be in Lot 2.

7) Minor variations in land list. Mark Larson of the State Office has been working carefully with the canal company to prepare an accurate map depicting the company's service area. This will be used for the surface rights. It is highly unlikely that the land list on the transfer matches Larson's work acre-per-acre, quarter-per-quarter. I want to recommend surface and groundwater rights with the same service area.

8) Right 31-00332. This right appears to have been forfeited. Were it not for its inclusion on the transfer, I would disallow. In this case, this is not really substantive, because it overlaps a beneficial use right I would recommend with a priority date only a few years later.

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In general, though, the recognition of a right in a transfer blocks any finding of forfeiture even if later data show forfeiture had occurred.

9) Conditions 9 and 11 depend on a different reading of Bauerly Decree than we have arrived at in AJ analysis. Allocations interpreted the limitation as a rate limitation, I now read it as a volume limitation written in terms of the volume delivered by pumping at X diversion rate over Y period of time. I would ordinarily have recommended a volume limitation, rather than a rate.

In this particular case, other investigation points to a need for a rate limitation, so I'm content to leave the transfer limitation in place. This is probably cleaner than overcoming the discrepancies between actual development, the Bauerly decree, a 1970's or 1980's letter from Bob Fleenor to the watermaster, and Dave Tuthill's very thorough 1980's analysis of the problems with Bauerly and the departments historical interpretation of Bauerly.

In looking at things I wish to change, I think they fall into three categories:

1) Current technology (GIS, GPS) provides more accurate data than was available to Allocations or water user (POD's, POU).

2) AJ investigation discovers issues in decrees or historical practices that affect elements of the right (periods of use, forfeiture, cfs/volume limitations). These may not become apparent until investigation begins in a particular basin.

3) Typo's (priority dates, lots and quarter-quarters, diversion rate on 31-00328).

I think all of these could be corrected with an administrative order. I also think that either the concept of a "provisional transfer" (good until issuance of a directors report) or a limited transfer that only addresses the elements to be changed, would have prevented the heartburn with this particular transfer.

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DRAFT #5

BASIN 31 General Provisions

1. Allotment System:

a. This general provision applies to water rights having points of diversion from Mud Lake or its tributaries at points affected by the backwaters of Mud Lake.

b. On or about May 1st of each year and ~~as necessary~~ thereafter, the Director of the Idaho Department of Water Resources ("Director") shall compute the amount of water that ~~maybe~~ may be available in Mud Lake for diversion and use. This computation ~~shall include~~, in acre-feet, the seasonal allotment of water available to fill each right from May 1st to September 1st in the order of respective priorities. The initial computation by the Director shall ~~also take into consideration~~ include anticipated ~~accretion to the lake from~~ natural inflows. ~~The allotted amount of water in the lake, plus the estimated inflow from Camas Creek, shall be the amount of water of Mud Lake available for use during that irrigation season.~~ Subsequent computations shall adjust the allotments according to actual ~~accretion~~ and revised anticipated ~~accretion from~~ natural inflow. Each allotment shall be charged its proportionate part of the evaporation and other losses in the lake. At such time that all ~~allotted amounts~~ cannot be completely filled through September 1st, delivery shall be curtailed by priority. There shall be no carryover of ~~allotted water~~ from the previous irrigation season.

(I could live with striking the last sentence above.)

c. If the total demand for water from Mud Lake would be greater than the volume of ~~available~~ water ~~of physically~~ deliverable from the lake ~~as determined in 1(b) above~~, then the Director may determine that the water user(s) may not withdraw more than 35% of the allotment in any calendar month. All water for the allotment, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's seasonal allotment.

2. Conjunctive Management: [USE MOST RECENT LANGUAGE]

The following surface water rights from the following source of water in Basin 31 shall be administered separately from all other surface water rights in Basin 31:

None.

All water rights within Basin 31 are from connected sources of water in the Snake River Basin and shall be administered conjunctively.

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Basin 31 Remark (on the individual water right)

Early Season Pumping: The director may authorize ~~pumping~~ diversion to storage and irrigation storage under this right as early as March 1. Any use of water before May 1 under this remark is subordinate to all water rights having no subordinated early ~~pumping~~ diversion to storage or irrigation storage use and ~~shall have~~ having a priority date ~~of~~ earlier than June 1, 1961.

Alternate wording:

Early Season Pumping: The director may authorize diversion to storage and irrigation storage under this right as early as March 1. Any use of water before May 1 under this remark shall have a priority date of June 1, 1961.

Basin 31 Explanatory Remarks

Diversion Volume: The diversion volume described above was calculated by multiplying the diversion rate of ____ by 123 days.

For Groundwater Storage: Water stored under this right shall be charged its proportionate part of the evaporation and other losses in the lake.

Season of Use

Season of Use

Surface Water Storage
Surface Storage: 1/1 to 12/31
Irrigation from Storage: 4/1 to 10/31

Groundwater Storage (w/ priority 5/1/31)
Irrigation Storage: 5/1 to 10/31 (w/ remark allowing early storage)
Irrigation from Storage: 5/1 to 10/31 ~~(w/ remark allowing early diversion)~~
Diversion to Storage: 5/1 to 10/31 (w/ remark allowing early diversion)

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Contor, Bryce
From: Contor, Bryce
Sent: Friday, August 25, 2000 10:02 AM
To: Carlsen, Ernie
Subject: Invitees to Sept 26 meeting:

The following have surface claims diverted from the lake, or from Camas Creek below Bybee Bridge:

Mud Lake Water Users Association
PO BOX 68, Terreton ID 83450

Keith Shuldberg
1785 N 1800E, Hamer ID 83425

Don Burtenshaw
1603 N 1000 E, Terreton ID 83450

Van Burtenshaw
1698 N 1300 E, Terreton ID 83450

Dobson Ranches
C/O ANDY DOBSON
1595 N 1500 E, ~~Terreton ID 83450~~ Hamer ID 83425

Level Canal
C/O DON PARKER
2032 W 4200 S, Rexburg ID 83440

C/O WILFRIED SCHMITT
HC 63 BOX 2585, Monteview ID 83435

Joe Potter
PO BOX 114, Terreton ID 83450

The following have groundwater claims delivered via the lake:

Mud Lake Water Users Association
PO BOX 68, Terreton ID 83450

Dobson Ranches
C/O ANDY DOBSON
1595 N 1500 E, Terreton ID 83450

Independent Water Users
1785 N 1800 E, Hamer ID 83425

C/O DON PARKER
2032 W 4200 S, Rexburg ID 83440

Note that the members of "Independent Water Users" are:

Keith Shuldberg
Don Burtenshaw

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Van Burtenshaw
Dobson Ranches
Level Canal
Joe Potter

Thus there actually is 100% overlap between users of GW via the lake and SW from or via the lake.

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DRAFT #4

BASIN 31 General Provisions

1. **Allotment System:** a) ~~list~~ location - follow Snake #5

a. b) On or about May 1st of each year, the Director of the Idaho Department of Water Resources ("Director") shall compute the amount of water available in Mud Lake for diversion and use. ~~This computation shall be based on information provided by the United States Geological Survey gauge located at the mouth of Camas Creek. The Director shall include the~~ estimated ~~inflow volume from Camas Creek~~ between the period from May 1st to September 1st. The amount of water in the lake, plus said estimated inflow, shall be the amount of water of Mud Lake available for use during that irrigation season. On or about May 1st of each year, the Director shall also compute in acre-feet the allotment of water ~~necessary~~ to fill each right from May 1st to September 1st in the order of respective priorities. There shall be no carryover of ~~storage water~~ allotment from the previous irrigation season.

b. c) Beginning on May 1st of each year and at least every 15 days from May 1st until the end of the irrigation season, the Director shall compute the amount of water diverted under each right, including the amount of water used prior to May 1st and the amount of water remaining available to fill such rights. The Director shall take into consideration accretion to the lake from natural inflow. Each right shall be charged its proportionate part of the evaporation and other losses in the lake. At such time that all rights cannot be completely filled through September 1st, delivery to the junior right(s) shall be discontinued.

2. d) **35% per month limitation:**

If the total demand for water from Mud Lake would be greater than the volume of the lake as determined in 1(a) above, then the Director may determine that the water user(s) may not withdraw more than 35% of ~~his/her total right~~ [would it be accurate here to say, the allotment] in any calendar month. All water, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's seasonal allotment.

3. e) **Conjunctive Management:** (substitute new language)

The following surface water rights from the following source of water in Basin 31 shall be administered separately from all other surface water rights in Basin 31:

None.

All water rights within Basin 31 are from connected sources of water in the Snake River Basin and shall be administered conjunctively.

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Basin 31 Remark (on the individual water right)

Early Season Pumping: The director may authorize ~~pumping~~ diversion to storage, storage, and irrigation ~~and diversion from storage~~ under this right as early as March 1. Any pumping prior to May 1 shall be subject to a "pumping plan" authorized by the director and shall bear a priority date of June 5, 1961.

Basin 31 Explanatory Remarks

Diversion Volume: The diversion volume described above was calculated by multiplying the diversion rate of ____ by 123 days.

For Groundwater Storage: Water stored under this right shall be charged its proportionate part of the evaporation and other losses in the lake. [Is this redundant since the general provision provides for this for all rights that a part of the allotment system? I do believe, however, that it would clarify for the water user the fact that their stored water is subject to reduction.]

I think we need it

Season of Use

Season of Use

Surface Water Storage
Surface Storage: 1/1 to 12/31
Irrigation from Storage: 4/1 to 10/31

Groundwater Storage (w/ priority 5/1/31)
Groundwater Storage: 5/1 to 10/31 (w/ remark allowing early storage)
Irrigation from Storage: 5/1 to 10/31 (w/ remark allowing early diversion)
Diversion to Storage: 5/1 to 10/31 (w/ remark allowing early diversion)

Questions

Do we need a volume for 'diversion to storage, " a rate, or both? vol -

Can we include an adjustment for historical ditch losses? Not needed for MCWVA or other Basin rights.

Which rights should have the explanatory remarks attached to them? e-mailed list.
for SW,
3 Basin use claims
for GW Storage

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MUD LAKE WATER USERS, INC.
STOCKHOLDERS NEWSLETTER

July 17, 2000

Dear Stockholder,

We need you to **make sure that your ditches are clean** prior to you ordering water. If they are not clean you cannot get as good of a flow & we reserve the right to refuse to deliver water for such ditches.

The hot, dry, windy weather has caused a heavy demand for water. However, we have had good well flows this year and are keeping up with demand with only a few delays. Wells #3 & #4 in the Jackett have been off-line for repairs but we believe they will be operational by early August. At Holley the use of the creek pump has relieved pressure on the well field & supplied the needed water for deliveries. At North Lake we have shut #1 off do to cavitation. We have had a better use of magnacide this year, which has helped to control moss. We are also continuing to cut moss in Camas Creek & in the independent ditch. Currently our flow into the lake is 360 cfs with only 250 cfs going out & our current lake level is 4.3'.

In the past year we have used a large amount of gravel & bentonite from our yard, which will need to be replaced. However the repairs have been necessary. The maintenance done Jackett & Holley has been a great benefit to water distribution on those systems.

All stockholders with pivots crossing roadways or dikes should make as much effort to control them as possible, as this will reduce our expense.

At the North Lake well field we are planning to fill in the old wells that lie along the Old Rock Ditch to come into compliance with current regulations. We also plan to drill a new well there at #11D to replace a caved in well at the Marty well field.

We have installed computer controlled monitoring devices at several locations on the system, which has reduced our mileage in a year when high fuel prices make this increasingly important. We plan to install more in the future.

We now have a full-time secretary in the office from 8 AM to 4 PM Monday to Friday & 8 AM to 12 Noon Saturday. This means that there should always be someone to answer your calls for water orders & turn off notices. Please allow 1 day for orders & **at least 12 hrs. for offs** (6 hrs. for sprinkler transfers). We hope that you have been satisfied with our service this year, but if you are not our secretary will answer those calls as well & we will attempt to work out a solution. Our address, phone number, & fax number are at the bottom of the page for your reference. Please note that if you call the fax number the secretary will not answer. It is for faxes only.

Sincerely,
Garth Soderquist
Garth Soderquist
President
Mud Lake Water Users, Inc.
pwf

Mailed to B Coulter fr. Terreton 7/18/00
Rec'd 7/18/00

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NOV 25 2002

Note that this letter was sent prior to the hailstorm that invited many growers to cut hay. The above figures probably represent close to full-rate operation. Bar 7/26/00

P.O. Box 68
Terreton, ID 83450
Ph 663-4359
Fax 663-4369

Contor, Bryce
From: Contor, Bryce
Sent: Wednesday, July 26, 2000 9:25 AM
To: Carlsen, Ernie
Cc: McHugh, Candice; Music, Vicky
Subject: storage questions

Thank you for discussing my storage questions. Based on what we talked about, here are my plans:

Beneficial Use Claims for Irrigation Storage:

- Three Claims - A31-11339, Independent Water Users
  Mud Lake Water Users
  Dobson Ranches

- Diversion to Storage - Match GW diversion rates, including combined use limitations. No volume. For the Mud Lake Water Users, this includes an in-season limitation to 200 cfs of certain rights that originally were Owsley rights.

- Irrigation Storage - 1.25 acre feet/acre per analysis of historical needs/practices and lake capacity. Mud Lake Water Users claim will be reduced 5,000 acre feet due to existence of transfer approval of decreed storage right 31-00332.

- Irrigation from Storage - same as Irrigation Storage, since volume analysis was based on one-fill assumption.

- Combined volume limitations w/ other GW rights per Bauerly Decree. Loss calculations indicate that if groundwater were the sole source, slightly less than 3.5 afa would be available at the field headgate. However, historical use documentation shows that Bauerly limitations far exceed actual usage.

- Because the "diversion to storage" will be recommended as a rate, and "irrigation storage" as a volume, there is no need to adjust the recommendations for ditch loss issues.

Please correct me if this won't work.

Thanks, Bryce

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Contor, Bryce
From: Contor, Bryce
Sent: Thursday, July 13, 2000 2:03 PM
To: Contor, Bryce; Fritschle, Carter
Subject: RE: minor adjustment to Early Season pumping remark

More thoughts:

Even in years when there is an "April Draft," there is likely some natural flow volume in the lake (even if the early season pumping is required to bring water levels up high enough for practical diversion), enough to satisfy the small volumes historically pumped in an "April Draft."

So maybe we can dodge the bullet by having the remark read

> "The director may authorize pumping to storage *and storage* under this right as early as..."

In other words, even if they pump early just so they can divert early, we can assert they are diverting "allotment" water and letting the "pumped" water accumulate in storage.

-----Original Message-----
From: **Contor, Bryce**
Sent: Thursday, July 13, 2000 12:46 PM
To: Fritschle, Carter
Subject: RE: minor adjustment to Early Season pumping remark

No record of prior to April 1 but plenty of record of prior to May 1, the proposed beginning of the SOU for the in-season beneficial use claim.

This start date is per Bauerly Decree and historical practice. We'll be stuck with a different start date on the forfeited (but reinstated by post-1987 formal transfer) 5000 acre-foot decreed storage right from GW (31-00332) but I think our analysis of May 1 on the other GW storage rights is spot-on.

-----Original Message-----
From: **Fritschle, Carter**
Sent: Thursday, July 13, 2000 9:14 AM
To: Contor, Bryce; Carlsen, Ernie; McHugh, Candice
Subject: RE: minor adjustment to Early Season pumping remark

I think we may need to break this remark down into two parts. The diversion to storage can begin as early as March 1, but I don't think we want to let them start irrigating that soon. Has there been any historical information to support irrigation water being pumped from the lake prior to April 1?

Carter

-----Original Message-----
From: Contor, Bryce
Sent: Wednesday, July 12, 2000 10:38 AM
To: Contor, Bryce; Carlsen, Ernie; Fritschle, Carter; McHugh, Candice
Subject: RE: minor adjustment to Early Season pumping remark

Correction: I meant to add diversion <u>from</u> storage rather than diversion <u>to</u> storage.

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-----Original Message-----
From: **Contor, Bryce**
Sent: Wednesday, July 12, 2000 10:36 AM
To: Carlsen, Ernie; Fritschle, Carter; McHugh, Candice
Subject: minor adjustment to Early Season pumping remark

I meant to suggest this yesterday, but forgot:

> "The director may authorize pumping to storage, *storage, and diversion from storage* under this right as early as..."

In my mind this is necessary because our proposed season of use for all those elements for the beneficial use storage claims begins May 1, and all of those functions may in fact be utilized prior to May 1 if early pumping occurs.

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Contor, Bryce
From: Contor, Bryce
Sent: Wednesday, July 12, 2000 3:44 PM
To: Tuthill, Dave; Carlsen, Ernie; Fritschle, Carter; McHugh, Candice
Cc: Music, Vicky
Subject: Unaccounted losses in Mud Lake

Based on our concerns yesterday, I plotted on Excel what data we have (copy attached). This is nearly complete data for 1931, 1934, and 1993, and partial data for 1961 and 1964.

I didn't think at this point our needs justify formal analysis, but from the graphs it appears:

1. The ratio of "unaccounted for losses" to "evaporation" (where I presume well interference would show up) appears to have changed only slightly, if at all, over time.

2. The negative losses I spoke of seem to be random; possibly they reflect measurement and accounting imprecision rather than periods of a gaining lake.

3. I couldn't see much correlation between GW pumping and unaccounted losses, and there seems to be no seasonal variation in unaccounted for losses. Therefore if the losses are affected by pumping the response time is fairly long.

4. There was an apparent increase in GW pumping capacity from the 1930's to the 1960's, and possibly a slight further increase from the 1960's to the 1990's.

losses v pumping.xls

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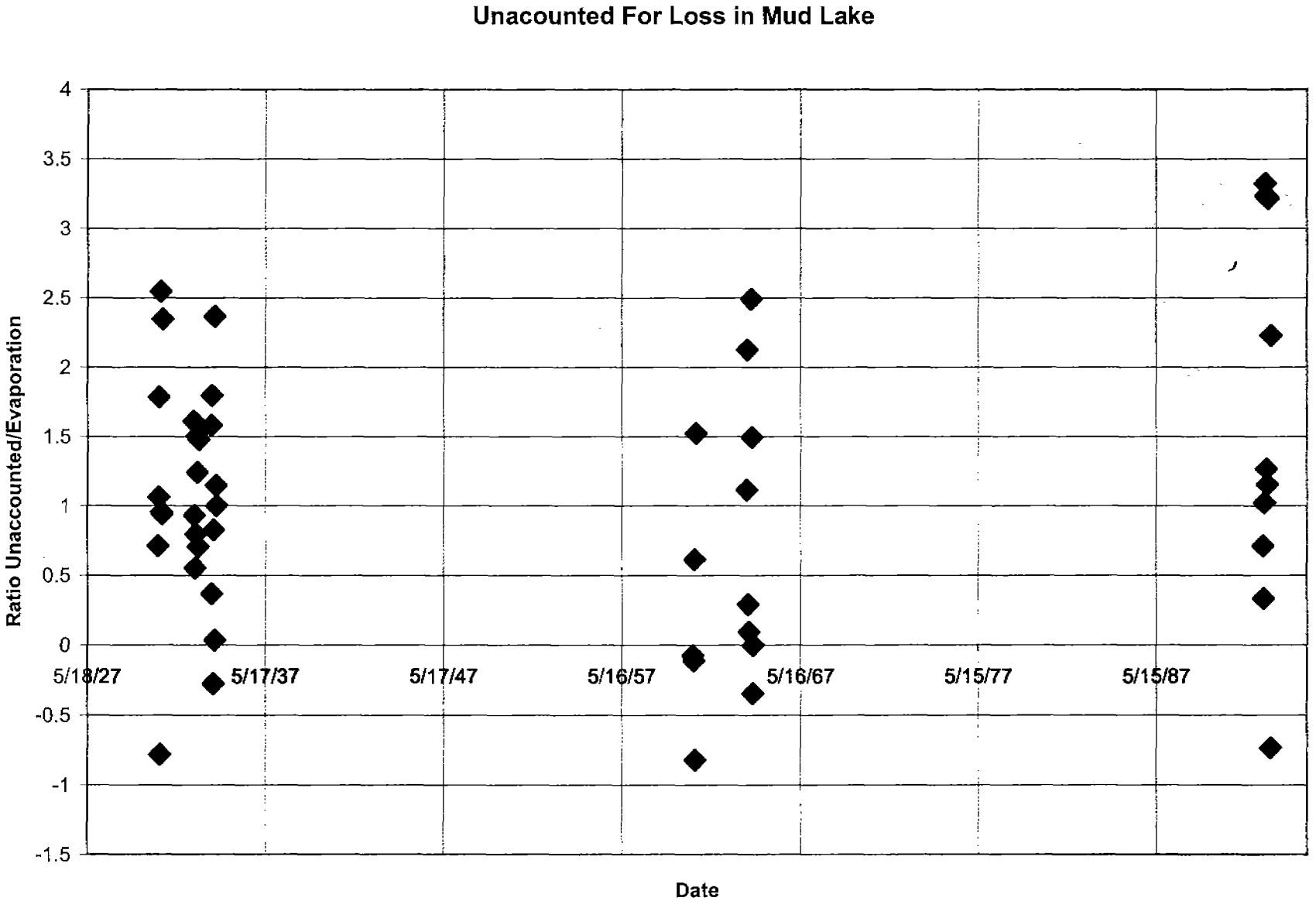
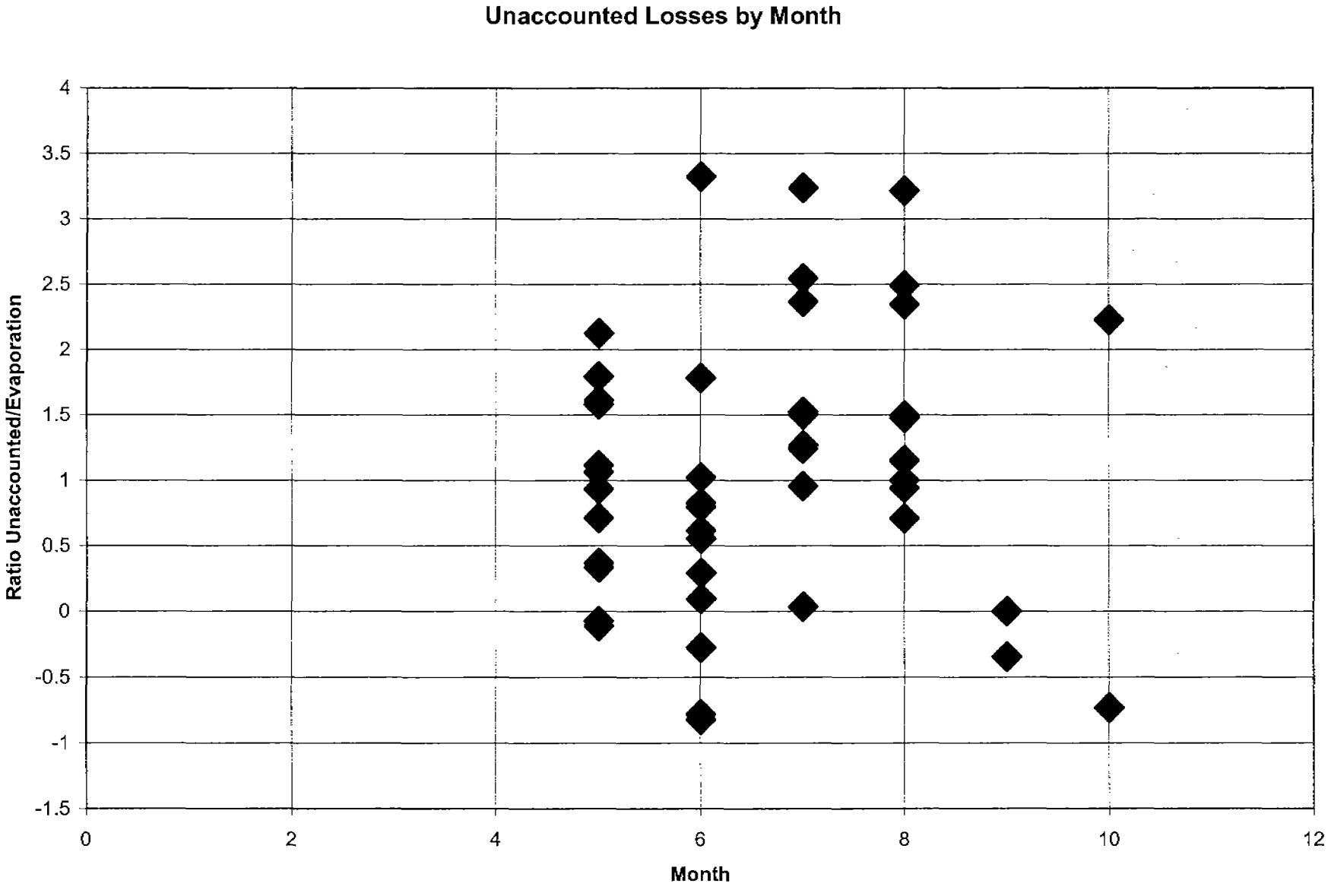
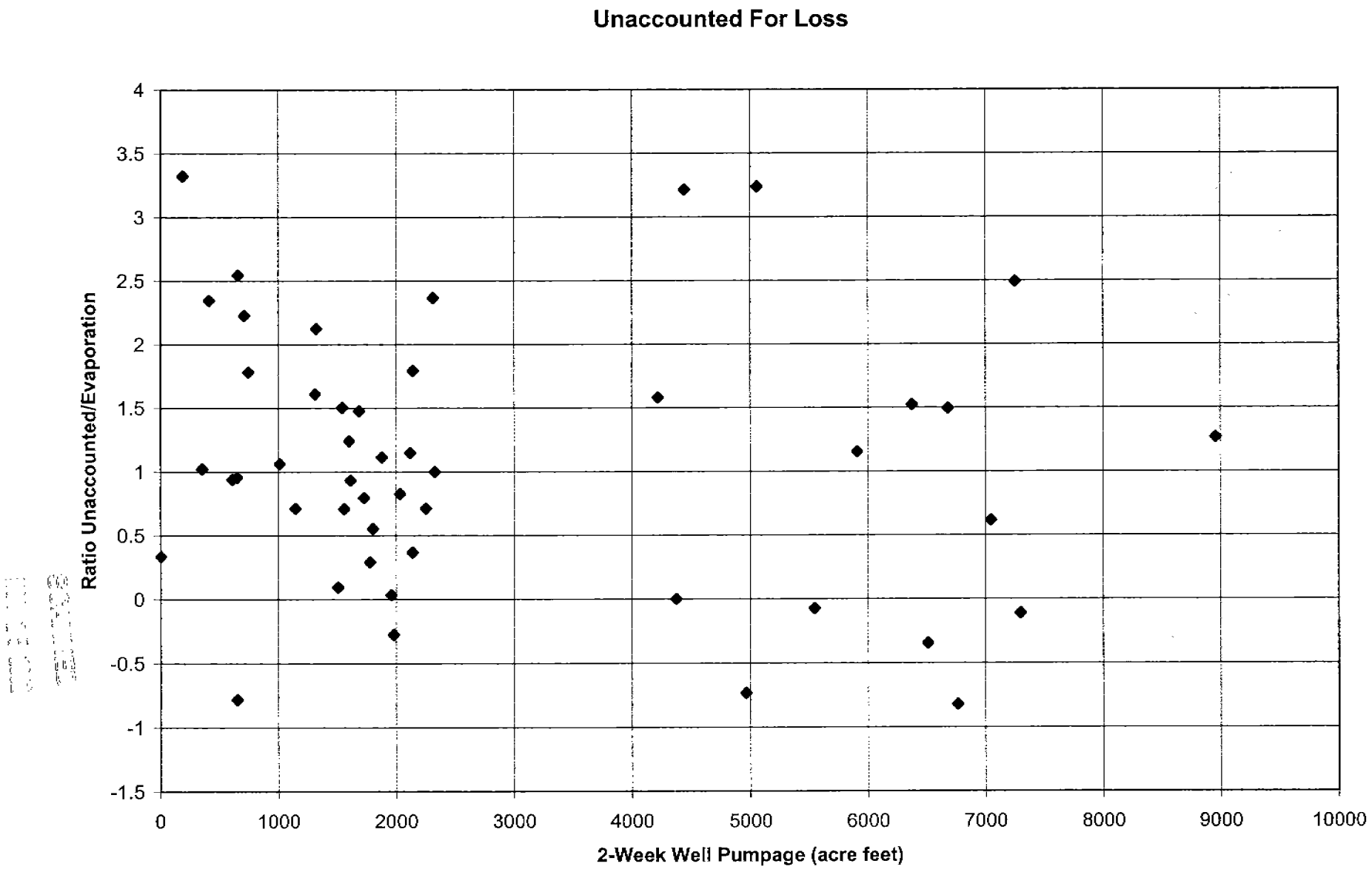
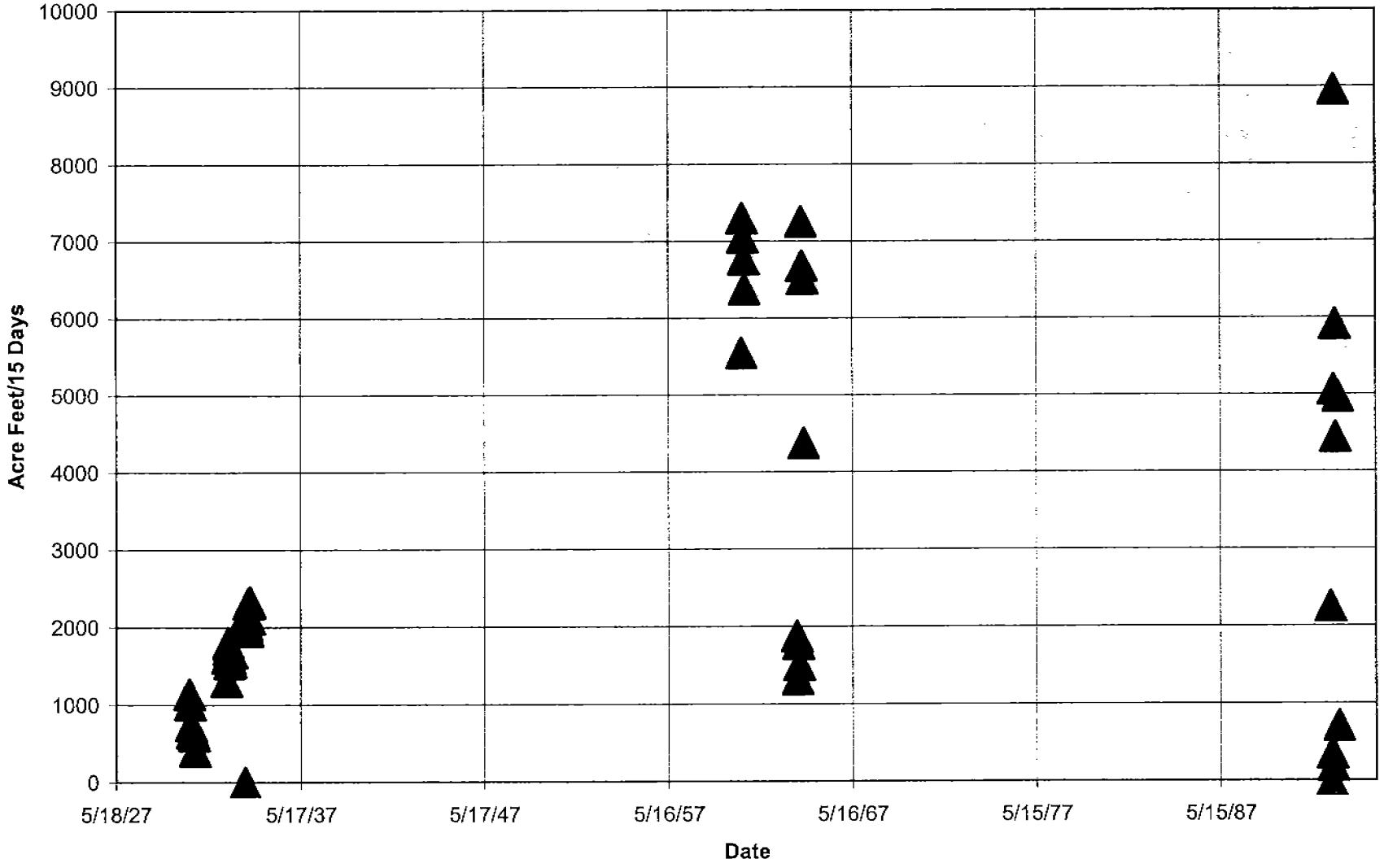

Unacounted For Loss in Mud Lake
Ratio Unaccounted/Evaporation
4
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
5/18/27
5/17/37
5/17/47
5/16/57
5/16/67
5/15/77
5/15/87
Date


Unaccounted Losses by Month
Ratio Unaccounted/Evaporation
4
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
0
2
4
6
8
10
12
Month


Unaccounted For Loss
Ratio Unaccounted/Evaporation
4
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
2-Week Well Pumpage (acre feet)

Well Pumpage Into Mud Lake



Contor, Bryce
From: Contor, Bryce
Sent: Wednesday, July 12, 2000 10:38 AM
To: Contor, Bryce; Carlsen, Ernie; Fritschle, Carter; McHugh, Candice
Subject: RE: minor adjustment to Early Season pumping remark

Correction: I meant to add diversion from storage rather than diversion to storage.

-----Original Message-----
From: **Contor, Bryce**
Sent: Wednesday, July 12, 2000 10:36 AM
To: Carlsen, Ernie; Fritschle, Carter; McHugh, Candice
Subject: minor adjustment to Early Season pumping remark

I meant to suggest this yesterday, but forgot:

> "The director may authorize pumping to storage, *storage, and diversion from storage* under this right as early as..."

In my mind this is necessary because our proposed season of use for all those elements for the beneficial use storage claims begins May 1, and all of those functions may in fact be utilized prior to May 1 if early pumping occurs.

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Contor, Bryce
From: Contor, Bryce
Sent: Wednesday, July 12, 2000 10:32 AM
To: Carlsen, Ernie
Cc: McHugh, Candice; Fritschle, Carter
Subject: remark for GW storage

I wonder if we need an EXP remark on the GW storage recommendations clarifying that they are subject to the shrink? How about lifting language from Gen. Prov. 1b:

> "Water stored under this right shall be charged its proportionate part of the evaporation and other losses in the lake."

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Contor, Bryce
From: Contor, Bryce
Sent: Tuesday, July 11, 2000 3:46 PM
To: Contor, Bryce; Carlsen, Ernie; Fritschle, Carter; McHugh, Candice
Subject: RE: SW rights diverted via "allotment system."

Corrections.

1) Larsen appears on this list with a SW claim out of the lake, but I don't believe he has GW storage in the lake or GW diverted via the lake (except as a shareholder of Mud Lake Water Users).

I haven't researched Larsen's SW claim. I don't think it is valid. If he has a GW claim, I doubt it is valid, either – the watermaster didn't identify him as a party w/ GW storage in the lake.

2) Except for Dobson, the private individuals on the list only have GW storage in the lake as members of Independent Water Users. So the list of GW storage holders is short: Mud Lake Water Users, Dobson, Independent Water Users.

-----Original Message-----
From: **Contor, Bryce**
Sent: Tuesday, July 11, 2000 3:39 PM
To: Carlsen, Ernie; Fritschle, Carter; McHugh, Candice
Subject: SW rights diverted via "allotment system."

The attached summary of AJ claims was generated on the VAX w/ a selection file by POD on Mud Lake, or Camas Creek below "Bybee Bridge" (the beginning of the lake for administrative purposes).

I can't remember the exact QA process I went through, but it included comparison with the decree and a review of claimants' other claims. I think this is a good list.

These are the SW rights that would be recommended as a storage volume instead of a diversion rate.

Holley, Jackett, and MWA have all merged into "Mud Lake Water Users," so there are only seven claimants involved.

If you take this list of claimants and substitute "Independent Water Users" for "Level Canal," then you have the list of claimants with GW storage in the lake.

Bryce

<< File: Diversion from Lake or Creek.xls >>

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Contor, Bryce
From: Contor, Bryce
Sent: Tuesday, July 11, 2000 3:39 PM
To: Carlsen, Ernie; Fritschle, Carter; McHugh, Candice
Subject: SW rights diverted via "allotment system."

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Bryce

Diversion from Lake or Creek.x...

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Mud Lake/Camas Creek Summary
6N 34E, 6N 35E, 7N 34E, 7N 35E

Claim	Claimant	Source	Diversion	Notes
31-00005	Level	Lake	Lake	
31-00006	MLW	Lake	Lake	
31-00019	Shuldberg	Creek	Creek	
31-00026	Burtenshaw	Lake	Lake	
31-00027	Burtenshaw	Lake	Lake	
31-00034	MLW	Lake	Lake	
31-00035	MLW	Lake	Lake	
31-00036	MLW	Lake	Lake	
31-00037	MLW	Lake	Lake	
31-00038	MLW	Lake	Lake	
31-00052	MLW	Lake	Lake	
31-00065	MLW	Lake	Lake	
31-00104	MLW	Lake	Lake	
31-00105	MLW	Lake	Lake	
31-00134	Jackett	Creek	Creek	
31-00135	Jackett	Creek	Creek	
31-00143	Jackett	Creek	Creek	
31-00144	Jackett	Creek	Creek	
31-00147	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00147A	MLW	Lake	Lake	
31-00159	MLW	Lake	Lake	
31-00162	MLW	Lake	Lake	
31-00163	MLW	Lake	Lake	
31-00166	MLW	Lake	Lake	
31-00168	MLW	Lake	Lake	
31-00169	MLW	Lake	Lake	
31-00184	MLW	Lake	Lake	
31-00185	MLW	Lake	Lake	
31-00185Z5	MLW	Lake	Lake	
31-00186	MLW	Lake	Lake	
31-00187	MLW	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00188	MLW	Lake	Lake	

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31-00189	Level	Lake	Lake	
31-00190	Jackett	Creek	Creek	Claimed 7N 35E 7, above Bybee. Probably should be 6N 35E 3.
31-00191	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00192	Jackett	Lake	Creek	
31-00206	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00207	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00208	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00209	Dobson	Lake	Lake	Claimed section 12 POD - pumps in 12, canal fr. lake originates in 1 or 6.
31-00210	Potter	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00211	Potter	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00212A	Potter	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00213	Potter	Lake	Lake	Claimed in section 11 - canal fr. Lake originates in 1
31-00232	MLW	Lake	Lake	
31-00237	MLW	Lake	Lake	
31-00243	Burtenshaw	Lake	Lake	Claimed section 12 POD - actually in section 1
31-00263	MLW	Lake	Lake	Two POD on lake
31-00328	MLW	Lake	Wells	Claimed in error - GW decree
31-00344	Holley	Creek	Creek	
31-00345	Holley	Creek	Creek	
31-00354	Holley	Creek	Creek	
31-00355	Holley	Creek	Both	
31-00360	Holley	Creek	Lake	
31-00361	Holley	Creek	Creek	
31-00363	MLW	Lake	Lake	
31-02276	MLW	Lake	Lake	Claimed in section 10 - canal fr. lake originates in 1
31-07005	MLW	Lake	Wells	Claimed in error - GW license
31-10957	Holley	Creek	Creek	
31-10958	Holley	Creek	Creek	
31-10959	Holley	Creek	Creek	
31-10960	Holley	Creek	Lake	
31-10961	Holley	Creek	Creek	
31-10962	Holley	Creek	Creek	
31-11199	Larsen	Lake	Lake	Claimed in section 10 - not on lake - needs research. Old rights 164, 165
31-11335	Level	Lake	Lake	
31-11337	Shuldberg	Creek	Creek	

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Contor, Bryce

From: Contor, Bryce
Sent: Thursday, June 29, 2000 11:17 AM
To: McHugh, Candice; Tuthill, Dave; Hamlin Nygard, Susan; Carlsen, Ernie; Fritschle, Carter; Music, Vicky
Subject: RE: Basin 31 General Provisions

I like it, I'll be ready for the discussion on July 11th.

The irrigation-season storage of GW comes from the fact that the GW has to flow through the lake, due to the physical location of the POD's and POU's. Because of this fact, and because all the GW users are also owners of surface water storage ("allotment storage") in the lake, there is no direct linkage between diverting from GW and application to beneficial use. Typically, as a user anticipates depletion of his/her allotment storage, the well pumps are turned on. The watermaster records and logs the pumped volumes into the "well balance" allotment system, and drafts are charged against the balance as the water is used. If the user stops irrigating for a week to cut hay, he/she may or may not shut off the well pumps, depending on perception of future needs and adequacy of remaining balances. Therefore, at many times during the season, the watermaster will be carrying on his "well balance" account in the allotment system, more than 24hrs worth of irrigation volume from the GW rights. That's why I propose recommending a beneficial use in-season storage right for the GW users. I suspect this practice goes back to the beginning of the allotment system, and there is one particular early allotment sheet (1933 or 1934, I think) that appears to specifically reference it. That's the one I plan to rely on for priority date. It is these beneficial use rights for storage of GW that I supposed we would attach the "early pumping" remarks to.

-----Original Message-----
From: McHugh, Candice
Sent: Thursday, June 29, 2000 8:57 AM
To: Tuthill, Dave; Hamlin Nygard, Susan; Carlsen, Ernie; Fritschle, Carter; Contor, Bryce; Music, Vicky
Subject: Basin 31 General Provisions

Here is the latest draft of the Basin 31 General Provisions along with the remark about early season pumping and seasons of use for the different rights.

Please review and be ready to discuss any questions or concerns you may have at the meeting scheduled for July 11th at 2:00 p.m.

Thanks.

<< File: BASIN 31 General Provisions3.doc >>

Candice

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DRAFT #3

BASIN 31 General Provisions

1. **Allotment System:**

   a. On or about May 1st of each year, the Director of the Idaho Department of Water Resources ("Director") shall compute the amount of water available in Mud Lake for diversion and use. This computation shall be made from the United States Geological Survey gauge located at the mouth of Camas Creek. To this calculation, the Director shall add the estimated inflow volume from Camas Creek between the period of May 1st to September 1st. The amount of water in the lake, plus said estimated inflow, shall be the amount of waters of Mud Lake available for use that irrigation season. On or about May 1st of each year, the Director shall compute in acre feet the allotment of water necessary to fill each right from May 1st to September 1st in the order of their respective priorities.

   b. Beginning on May 1st of each year and at least every 15 days from May 1st until the end of the irrigation season, the Director shall compute the amount of water used by each right, including the amount of water used prior to May 1st and the amount of water remaining available to fill such rights. The Director shall take into consideration actual accretion to the lake from natural inflow. Each right shall be charged its proportionate part of the evaporation and other losses in the lake. At such time that all rights cannot be completely filled through September 1st, the junior right(s) shall be cut off.

2. **35% per month limitation.**

   If the total demand for water from Mud Lake is made that would be greater than the volume of the lake as determined in 1(a) above, then the Director may determine that the water user(s) may not withdraw more than 35% of his/her total right in any calendar month. All water, whenever used, including water used prior to May 1st and after September 1st, shall be charged against the water user's seasonal allotment.

add no Canyon

10 AM Friday 21st

EnP
Remark ID,
source cfs
for calc. of
volume

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to storage, and diversion from storage

Basin 31 Remark

Early Season Pumping: The director may authorize pumping to storage under this right as early as March 1. Any pumping prior to May 1 shall be subject to a "pumping plan" authorized by the director and shall bear a priority date of June 5, 1961.

OTHER THOUGHTS:

Season of Use

Storage: 11/1 to 10/31
Irrigation from Storage: 5/1 to 10/31 at volume from decreed right
Irrigation at the decreed diversion rate: 5/1 to 10/31

OR

Surface Water Storage
Surface Storage: ~~11/1 to 10/31~~ 1/1 – 12/31
Irrigation from Storage: 4/1 to 10/31 at volume from decreed right
Irrigation at the decreed diversion rate: [no season needed because historically administered purely as a storage right with a volume only]

Groundwater Storage (w/ priority in 1930s)
Groundwater Storage: 5/1 to 10/31 (w/ remark allowing early storage)
Irrigation from Storage: 5/1 to 10/31 (w/ remark allowing early diversion)
Diversion to Storage: 5/1 to 10/31 (w/ remark allowing early diversion)
[I'm a little confused about the groundwater storage SOU. I didn't think groundwater was pumped and stored during the irrigation season at all.]

Priority Date

Early season storage has a 1961 priority date [No longer needed due to the remark]

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Contor, Bryce

From: Contor, Bryce
Sent: Thursday, June 22, 2000 11:00 AM
To: McHugh, Candice; Hamlin Nygard, Susan; Fritschle, Carter; Carlsen, Ernie; Music, Vicky
Subject: RE: Basin 31 General Provisions/Remarks

More thoughts upon more carefull reading:

Two separate kinds of storage, w/ separate seasons of use:

Surface Storage:

Storage: 11/1 to 10/31
Irr fr. Storage: 4/1 to 10/31 at volume decreed
Irr at decree diversion rate: See below

Irr from surface storage I changed to 4/1 start date instead of 5/1 due to 1) clear indication from decree that diversion earlier than 5/1 was allowable, 2) watermaster indication that historically "April drafts" have occurred, and 3) the fact that the IDWR standard for this area is 4/1 - 10/31. Note that the 5/1-9/1 period in the decree does not appear to be a period of use but a baseline period for purposes of calculation.

My understanding of the outcome of the conversation w/ Carter regarding the surface rights managed under the allotment system is that they have historically been administered purely as storage rights and therefore we are not going to recommend a diversion rate but only a volume. If that is son, then there will be no irrigation at the diversion rate and therefore no need for a season for that.

GW Storage:

Storage: 5/1 to 10/31 (w/ remark allowing early storage)
Irr fr. Storage: 5/1 to 10/31 (w/ remark allowing early diversion)
Diversion to Storage: 5/1 to 10/31 (w/ remark allowing early diversion)

GW storage, is a benefical use growing out of the operation of the Suave Decree. I suggest its period of use begin on May 1 to correspond to the requirements of the Bauerly Decree, and end on 10/31 to correspond to the long-standing practice of no carry-over of well balances in the allotment system. Its priority will date from the 1930's (I need to review the documentation again to get a year). We can't divert to storage earlier than May 1, w/o violating the original interpretation of Bauerly. Since no carryover of well balances is allowed, prior to May 1 there can't be any stored volume, and therefore no diversion from storage.

The "early season" pumping appears to be a modification of the interpretation of Bauerly, which occurred in 1961. Therefore any diversion to storage, storage, or diversion from storage, prior to May 1, has to be a part of the "new" practice of early season pumping adopted in '61 and referenced by the remark.

If we take this approach, the Early Season Pumping remark needs to

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authorize not only "pumping to storage," as I had earlier suggested, but also "storage" and "diversion from storage."

-----Original Message-----
From: McHugh, Candice
Sent: Thursday, June 22, 2000 10:27 AM
To: Hamlin Nygard, Susan; Fritschle, Carter; Carlsen, Ernie; Contor, Bryce; Music, Vicky
Subject: Basin 31 General Provisions/Remarks

Everyone --

I thought I would send you the latest version of the Basin 31 General Provisions/Remarks. The editing was done very nicely by Bryce. I had a few questions that I put in red. I think the next step is to have a meeting to discuss this latest version with Dave T. What do you think are we ready for that or do we need further discussion first?

<< File: BASIN 31 General Provisions2.doc >>

Candice

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