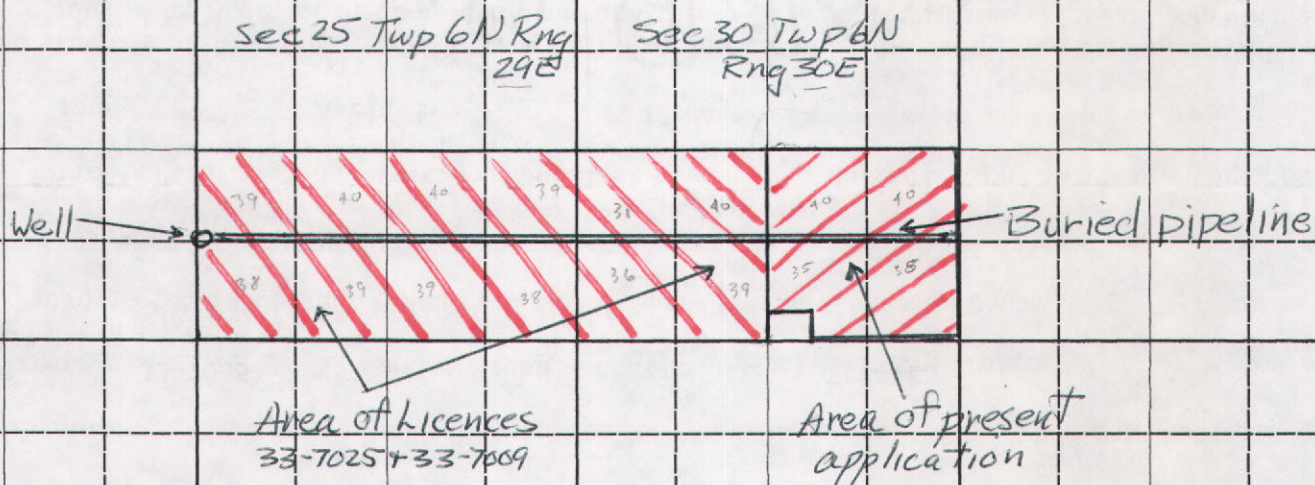


11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

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.

John R. Chambers
(Applicant)

RECEIVED

Affidavit of Publication

I, Le Ella Cammack...
of the Arco Advertiser, a weekly newspaper of
general circulation, published weekly at Arco,
Idaho, since March, 1909, do solemnly swear that
a copy of this notice, per clipping attached, was
published weekly in the regular and entire issue
of said newspaper, and not in any supplement
thereof,

for 2... consecutive weeks, commencing with

the issue dated 3-8-79

and ending with the issue dated 3-15-79

Le Ella Cammack

Subscribed and sworn to before me this

30 day of May, 1979

[Signature]
Notary Public

Residence: Arco, Idaho.

My commission expires [Signature], 19

RECEIVED

APR 4 1979

Department of Water Resources
Eastern District Office

PUBLIC NOTICE

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that the
following applications have been
submitted for permit to appropriate
the public waters of the State of
Idaho:

33-7065

CHAMBERS, ROBERT R.
11439 LAURELCREST
DRIVE, STUDIO CITY, CA 91604
Source: GROUNDWATER
Date Filed: 02-23-1979
Amount: 3.10 CFS
Diversion Point: NWSW Sec. 25 T
06N R 29E, BUTTE COUNTY
Use: IRRIGATION — (3.10 CFS)
from 04-01 to 11-01

Place of Use: NESE NWSE SESE
SWSE Sec 30 T 06N R 30E NESW
NWSW SWSW SESW NESE NWSE
SESE Sec 25 T 06N R 29E SWSE Sec
25 T 06N R 29E NESW Lot 03
(NWSW) LOT 04 (SWSW) SESW
Sec 30 T 06N R 30E FOR 613 ACRES
Diversion Means: WELL &
PUMP

33-7066

OWENS, GARY R.
RURAL ROUTE, HOWE, ID
83244

Source: GROUNDWATER
Date Filed: 02-23-1979
Amount: 6.40 CFS
Diversion Point: NWNW Sec 14 T
08N R 27E, BUTTE COUNTY
Use: IRRIGATION — (6.40 CFS)
from 04-01 to 11-01

Place of Use: NWNW SWNW
NWSW SWSW Sec 14 T 08N R 27E
NENE SENE NESE SESE Sec 15 T
08N R 27E FOR 320 ACRES
Diversion Means: WELL, PUMP
& SRPINKLER SYSTEM

If issued, the permits will be
subject to all prior water rights.
Protests against the granting of any
permit must be filed with the
Director of the Idaho Department
of Water Resources, 1515 Lincoln
Rd., Idaho Falls, Idaho 83401 on or
before MARCH 26, 1979.

C. STEPHEN ALLRED
Director

Pub. 3-8 & 3-15-79.

88-20

T
S
O
T

33-7065

REVIEW

Place of use
for 33-7009/7025

Place of use
for 33-7065

MICROFILMED
JAN 11 1991

29E 30E

6N 5N

6N 5N

DEP'R

Well =

795

6796

796

11

4797

667

708

7

+

32

31

36

10

5

60

1

21

4805

33-7065-

MICROFILMED
 JAN 6 1991

Place of use
BY P.D.

Point of Diversion

R 30E

R 29E

٢٥٢

place of use
for 33-7065

402

39 ac.

40 ac-

35,2 mi.

Keith Willson
(Eastern)

PUMP TEST SUMMARY

Pumping Unit: KEITH NICKERSON 400 hp (Running Alone) Date: 6/14/89

Total Dynamic Head:

- PWL could not be measured because of cavitating water & because tape would not go down well
- a) pumping water level: air line length _____ ft
 - air line pressure (psi) static _____ pumping _____
 - air line reading (ft) static _____ pumping _____
 - Fisher or steel tape (ft) static 284 pumping _____
 - b) discharge pres.: City gage _____ psi IDWR 19 x 2.31 = 44 ft 234
 - c) press. gauge height (from center line of disch. pipe) 3 ft 231.6
 - d) friction losses (pump intake to pressure gauge) _____ ft
 - COL DISCH INT Q_{me} TDH = (a + b + c + d) = _____ ft

Electric Powered Pump Standards For Tested Efficiencies (from Pacific Gas & Electric Company, 77 Beale Street, San Francisco, CA 94106)				
Motor Size (HP)	Ratings			
	Low	Fair	Good	Excellent
3-5	41.9 or less	42-49.9	50-54.9	55 or above
7.5-10	44.9 or less	45-52.9	53-57.9	58 or above
15-30	47.9 or less	48-55.9	56-60.9	61 or above
40-60	52.9 or less	53-59.9	60-64.9	65 or above
75+	55.9 or less	56-62.9	63-68.9	69 or above

(see below) Q = _____ gpm

OHP = Q x TDH ÷ 3960 = _____ hp 216.3

(see attached data) IHP = 458.9 hp

Eff. = OHP ÷ IHP x 100 = _____ % 47.17%
61.4%

City flow meter data:

Gallons _____ seconds 1) _____ 2) _____ 3) _____ Ave _____

Type McCrometer
doesn't work

Computed Flow Rate _____ gpm

FLOW MEASUREMENT

Pipe Circ (C) _____ in Thickness (T) _____ in Dia. (D) = 13.5 in

Inside Radius (IR) = (0.1592 x C) - T = _____ in 9 9/16 booster meter

Station Factors (F)	Stations (IR x F)	Velocity (V)			
		dec	in	R	L
A) 0.051		.3443	3/8	5.45	5.70
B) 0.163		1.1003	1 1/8	5.45	5.50
C) 0.293*		1.9778	2	5.65	5.65
D) 0.453		3.0578	3 1/16	5.85	5.85
E) 0.684		4.6170	4 5/8	5.80	5.70
G) 1.547		10.4423	10 7/16	6.20	6.20
H) 1.707*		11.5223	11 1/2	6.0	6.0
I) 1.837		12.3998	12 3/8	5.80	5.85
J) 1.949		13.1558	13 1/8	5.20	5.60
Average Velocity (V):		<u>5.7925</u>			

DECIMAL TO FRACTION
CONVERSIONS
(TO 1/16 INCH)

0.0000 - 0.0313	0
0.0313 - 0.0938	1/16
0.0938 - 0.1563	1/8
0.1563 - 0.2188	3/16
0.2188 - 0.2813	1/4
0.2813 - 0.3438	5/16
0.3438 - 0.4063	3/8
0.4063 - 0.4688	7/16
0.4688 - 0.5313	1/2
0.5313 - 0.5938	9/16
0.5938 - 0.6563	5/8
0.6563 - 0.7188	11/16
0.7188 - 0.7813	3/4
0.7813 - 0.8438	13/16
0.8438 - 0.9063	7/8
0.9063 - 0.9688	15/16
0.9688 - 1.0000	1

V (Hall) = 5.7925 **RECORDED**

* two-point method

Flow: Q = 2.451 x V x (2 x IR)² x _____ corr. factor = _____ gpm

= 2.451 x 5.7925 x (13.5)² = 2587.5gpm

= 5.76 cfs

JAN 04 1991

2587.5

Keith Willson
(Eastern)

PUMP TEST SUMMARY

Pumping Unit: KEITH NICKERSON 200 HP Booster Date: 6/14/89

Total Dynamic Head:

Suctionside P = 16 #/in²

a) pumping water level: air line length _____ ft
 air line pressure (psi) static _____ pumping _____
 air line reading (ft) static _____ pumping _____
 Fisher or steel tape (ft) static 284 pumping _____
 b) discharge pres.: City gage _____ psi IDWR 43 x 2.31 = 99.3 ft
 c) press. gauge height (from center line of disch. pipe) 1.75 ft
 d) friction losses (pump intake to pressure gauge) _____ ft
 TDH = (a + b + c + d) = _____ ft

Electric Powered Pump Standards For Tested Efficiencies (from Pacific Gas & Electric Company, 77 Beale Street, San Francisco, CA 94106)				
Motor Size (HP)	Ratings			
	Low	Fair	Good	Excellent
3-5	41.9 or less	42-49.9	50-54.9	55 or above
7½-10	44.9 or less	45-52.9	53-57.9	58 or above
15-30	47.9 or less	48-55.9	56-60.9	61 or above
40-60	52.9 or less	53-59.9	60-64.9	65 or above
75+	55.9 or less	56-62.9	63-68.9	69 or above

(see below) Q = 2510.2 gpm

OHP = Q x TDH ÷ 3960 = _____ hp

(see attached data) IHP = 291.7 hp

Eff. = OHP ÷ IHP x 100 = _____ %

City flow meter data:

Gallons _____ seconds 1) _____ 2) _____ 3) _____ Ave _____

Type McCrometer

Computed Flow Rate _____ gpm

doesn't work

FLOW MEASUREMENT

Pipe Circ (C) _____ in Thickness (T) _____ in Dia. (D) = 9 9/16 in

Inside Radius (IR) = (0.1592 x C) - T = _____ in 9.5625

Station Factors (F)	Stations (IR x F)		Velocity (V)	
	dec	in	R	L
A) 0.051				
B) 0.163				
C) 0.293*				
D) 0.453				
E) 0.684				
F) 1.316				
G) 1.547				
H) 1.707*				
I) 1.837				
J) 1.949				

DECIMAL TO FRACTION
CONVERSIONS
(TO 1/16 INCH)

0.0000 - 0.0313 0
 0.0313 - 0.0938 1/16
 0.0938 - 0.1563 1/8
 0.1563 - 0.2188 3/16
 0.2188 - 0.2813 1/4
 0.2813 - 0.3438 5/16
 0.3438 - 0.4063 3/8
 0.4063 - 0.4688 7/16
 0.4688 - 0.5313 1/2
 0.5313 - 0.5938 9/16
 0.5938 - 0.6563 5/8
 0.6563 - 0.7188 11/16
 0.7188 - 0.7813 3/4
 0.7813 - 0.8438 13/16
 0.8438 - 0.9063 7/8
 0.9063 - 0.9688 15/16
 0.9688 - 1.0000 1

Average Velocity (V):

$\bar{V}$ (Hall) = 11.2

* two-point method

Flow: Q = 2.451 x V x (2 x IR)² x _____ corr. factor = _____ gpm

2510

JAN 04 1991

MICROFILMED

400 HP
15/200 HP
Booster
Running

Chambers

3-7065

14 19
15 30

B 18.4

B-156
Wm. Staver
16.9

B 18.1

D 18.0

B-33
J. Anderson
13.3

B 59.5

B 22.9

J 26.5

J 26.5

J-1
22.8 22.8

I 19.0

K 34.9

N 36.4

L 15.3

B-1
Harshbarger

B 22.8

H 36.7

P.D.
IN NW SW
Sec 25

main line

main line

C 73.5

34.4

34.4

15 30
16 31

MICROFILMED

County Road

House

29 32

State of Idaho
Department of Water Resources

AMENDED **WATER RIGHT LICENSE** AMENDED
WATER RIGHT NO. 33-07065

Priority: February 23, 1979 Maximum Diversion Rate: 1.45 CFS
Maximum Diversion Volume:¹ 465.0 AF

This is to certify, that ROBERT R. CHAMBERS
11439 LAURELCREST DR.
STUDIO CITY, CA 91604

has complied with the terms and conditions
of the permit, issued pursuant to Application for Permit dated February 23, 1979; and
has submitted Proof of Beneficial Use on May 9, 1979. An examination indicates
that the works have a diversion capacity of 5.760 cfs of water from a GROUNDWATER
source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 11/01	1.45 CFS	465.0 AF

LOCATION OF POINT(S) OF DIVERSION: NWSW , Sec. 25, Township 06N, Range 29E
BUTTE County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
06N	30E	30	NESE 40	NWSE 40	SWSE 35.2	154.2
			SESE 39			

Total number of acres irrigated: 154.2

CONDITIONS/REMARKS:

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. The maximum combined rate of diversion under this right & Rights 33-7009 and 33-7025 shall not exceed 9.16 cfs.

MICROFILMED

JAN 04 1991

State of Idaho
Department of Water Resources

AMENDED

WATER RIGHT LICENSE

AMENDED

WATER RIGHT NO. 33-07065

This license is issued pursuant to the provisions of Section 42-219, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this 20th
day of December, 1990.

FOR

R. Keith Higginson
R. Keith Higginson, Director

MICROFILMED

JAN 04 1991

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No. 33-7065 Priority February 23, 1979 Amount 3.10 cfs

THIS IS TO CERTIFY, that Robert R. Chambers
of Studio City, California, has complied with the terms and conditions of Permit
No. 33-7065 issued pursuant to Application for Permit dated February 23, 1979,
and has submitted proof to the Department of Water Resources on May 9, 1979,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of 3.96 cfs of water from a groundwater source,
tributary to _____, and that the permit holder has applied to a beneficial use and
established a right to use water as follows:

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
Irrigation	from <u>April 1</u> to <u>November 1</u>	at <u>3.10</u> cfs and	<u>465.0</u> acre feet
	from _____ to _____	at _____ cfs and	_____
	from _____ to _____	at _____ cfs and	_____

(both dates inclusive)

Subject, however, to the condition that no more than 3.10 cfs of water be diverted at any one time, and
that the amount of water so diverted and to which such right is entitled and confirmed is for the purpose
aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed
465.0 acre feet per year, said waters to be diverted within the NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 23, Twp.
6N, Rge. 29E in the County of Butte

Description and location of place of use:

Twp.	Range	Sec.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Totals
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
6N	30E	30													40	40	39	36	155

Total number of acres irrigated 155

This right when combined with 33-7009 and 33-7025 shall provide no more than
3.96 cfs.

NOTE: Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho
code, or the applicable Idaho Law. This right may be forfeited by five years of non-use.

The right to the use of the water hereby confirmed is restricted and appurtenant to the lands or place of use
herein described, as provided by the laws of Idaho.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 22 day of
October, 19 81

Director

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

APPROVED

To appropriate the public waters of the State of Idaho

1. Name of applicant Robert R. Chambers Phone 213-762-2204
Post office address 11439 Laurelerest Drive, Studio City, CA. 91604
2. Source of water supply groundwater which is a tributary of _____
3. Location of point of diversion is NW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 25 Township 6N
Range 29E B.M. Butte County, additional points of diversion if any: _____

4. Water will be used for the following purposes: Changed as per telephone conversation 2-23-79
- Amount 3.1 for Irrigation purposes from Apr 1 to Nov. 1 (both dates inclusive)
(cfs or acre-feet per annum)
- Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
- Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
- Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated:

- a. 3.1 cubic feet per second and/or b. 465 (3.0 af per acre) acre-feet per annum.

6. Proposed diverting works:

- a. Description of ditches, flumes, pumps, headgates, etc. WELL, PUMP, MAINLINE
ALL Existing

- b. Height of storage dam _____ feet, active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet, materials used in storage dam: _____

Period of year when water will be diverted to storage _____ to _____ inclusive.
(Month/Day) (Month/Day)

- c. Proposed well diameter is 18" inches; proposed depth of well is 782 feet.

7. Time required for the completion of the works and application of the water to the proposed beneficial use is 5 years (minimum 1 year - maximum 5 years).

8. Description of proposed uses:

- a. If water is not for irrigation:
- (1) Give the place of use of water: _____ $\frac{1}{4}$ of _____ $\frac{1}{4}$ of Section _____ Township _____
Range _____ B.M.
- (2) Amount of power to be generated: _____ horsepower under _____ feet of head.
- (3) List number of each kind of livestock to be watered _____
- (4) Name of municipality to be served _____, or number of families to be supplied with domestic water _____.
- (5) If water is to be used for other purposes describe: _____

b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SE¼	SW¼	
6N	30E	30													40	40	40	35	155
6N	29E	25	SEE REMARKS								40	39	38	39	39	40	39	38	312
6N	30E	30		"		"					40	23	24	39					146

Total number of acres to be irrigated 613
155

c. Describe any other water rights used for the same purposes as described above.

Water Right Licenses 33-7025 and 33-7009 apply to the 312 and 146 acre fields

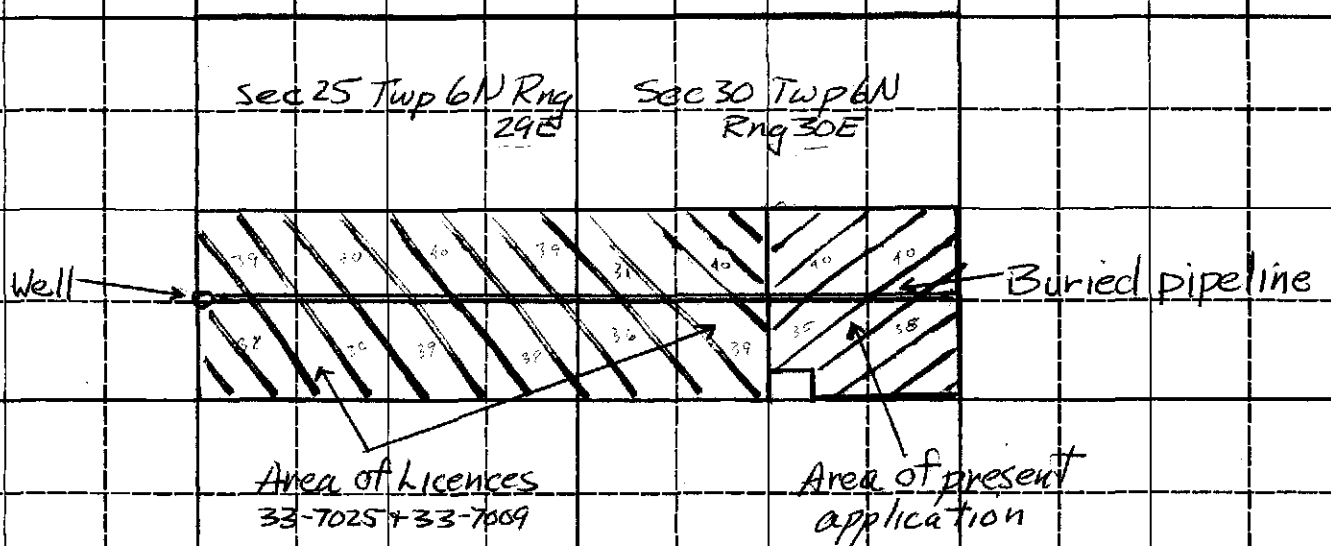
9. a. Who owns the property at the point of diversion Robert R. Chambers

b. Who owns the land to be irrigated or place of use Robert R. Chambers

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing

10. Remarks LANDS IN Sections 25 and SW¼, 30 already has 0.02 cfs/ac. allocated from the same source via license water rights Nos. 33-7009 & 33-7025. J.S. 4/9/79

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



Scale: 2 inches equal 1 mile.

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.

Robert R. Chambers
(Applicant)

RECEIVED
JUL 10 1969
IDAHO DEPT. OF AGRICULTURE

Proposed Priority 2-23-79

Received by CW Date 2-23-79 Time 11:40 A

Preliminary check by RP Fee \$ 65.00

Receipted by dh Date 2-23-79 #12897

Publication prepared by dh Date 3-2-79

Published in Arco Advertiser

Publication dates March 8 & 15, 1979

Publication approved 27 Date 4/1/79

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by EMC J.J.

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 33-7065, and said application is hereby APPROVED.

1. Approval of said application is subject to the following limitations and conditions:

- a. SUBJECT TO ALL PRIOR WATER RIGHTS.
- b. Proof of construction of works and application of water to beneficial use shall be submitted on or before April 1, 19 84.
- c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.
- d. Other: (1) An access port or other device as specified by the Department shall be installed by the permit holder to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.
(2) The maximum number of acres that can be irrigated under this permit is 155 acres located in the SE 1/4 Sec. 30, Twp. 6N, Rge. 30E. (3) The maximum rate of diversion for lands identified in this permit, if combined with Water Permit No. 33-7033 shall not exceed 3.1 cubic feet per second.

Witness my hand this 23 day of April, 1979.

J. Glen Saylor
Chief, Operations Bureau

Affidavit of Publication

I, Le Ella Cammack,
of the Arco Advertiser, a weekly newspaper of
general circulation, published weekly at Arco,
Idaho, since March, 1909, do solemnly swear that
a copy of this notice, per clipping attached, was
published weekly in the regular and entire issue
of said newspaper, and not in any supplement
thereof,

for 2 consecutive weeks, commencing with

the issue dated 3-8-79

and ending with the issue dated 3-15-79

Le Ella Cammack

Subscribed and sworn to before me this

30 day of May, 1979

[Signature]
Notary Public

Residence: Arco, Idaho.

My commission expires [Signature], 19

RECEIVED

APR 4 1979

Department of Water Resources
Eastern District Office

PUBLIC NOTICE

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that the
following applications have been
submitted for permit to appropriate
the public waters of the State of
Idaho:

33-7045

CHAMBERS, ROBERT R.
11439 LAURELCREST
DRIVE, STUDIO CITY, CA 91604
Source: GROUNDWATER
Date Filed: 02-23-1979
Amount: 3.10 CFS
Diversion Point: NWSW Sec. 25 T
06N R 29E, BUTTE COUNTY
Use: IRRIGATION — (3.10 CFS)
from 04-01 to 11-01
Place of Use: NESE NWSE SESE
SWSE Sec 30 T 06N R 30E NESW
NWSW SWSW SESW NESE NWSE
SESE Sec 25 T 06N R 29E SWSE Sec
25 T 06N R 29E NESW Lot 03
(NWSW) LOT 04 (SWSW) SESW
Sec 30 T 06N R 30E FOR 613 ACRES
Diversion Means: WELL &
PUMP

33-7046

OWENS, GARY R.
RURAL ROUTE, HOWE, ID
83244
Source: GROUNDWATER
Date Filed: 02-23-1979
Amount: 6.40 CFS
Diversion Point: NWNW Sec 14 T
08N R 27E, BUTTE COUNTY
Use: IRRIGATION — (6.40 CFS)
from 04-01 to 11-01
Place of Use: NWNW SWNW
NWSW SWSW Sec 14 T 08N R 27E
NENE SENE NESE SESE Sec 15 T
08N R 27E FOR 320 ACRES
Diversion Means: WELL, PUMP
& SRPINKLER SYSTEM

If issued, the permits will be
subject to all prior water rights.
Protests against the granting of any
permit must be filed with the
Director of the Idaho Department
of Water Resources, 1515 Lincoln
Rd., Idaho Falls, Idaho 83401 on or
before MARCH 26, 1979.

C. STEPHEN ALLRED
Director

Pub. 3-8 & 3-15-79.

88-20

MEMORANDUM

DATE: July 29, 1994

TO: Jim Johnson

FROM: Shelley W. Keen *SVK*

RE: Licensed diversion rate for 33-07065

Licensed rights 33-07009, 33-07025, and 33-07065 are diverted from the same well. The diversion rates for 33-07009 and 33-07025 are based on a 1974 measurement of 9.47 cfs diversion capacity from the well. The licensed diversion rate for 33-07065 is based on a 1989 measurement from the well of 5.76 cfs. The 1989 measurement was made in conjunction with a pump test by IDWR's Energy Division. The 5.76 cfs measurement resulted in 33-07065 being licensed with a diversion rate of 0.009 cfs per acre, a rate which may be too low to constitute beneficial use for irrigation of a crop in Idaho. Based on the following analysis, I believe that 5.76 cfs is an unreliable measurement for licensing purposes and that 33-07065 should have a higher licensed diversion rate.

Measurements

7-3-1974 33-07009 Field Report Open Discharge 8.54 cfs

This measurement was made with a McCrometer meter. The well pump was powered by a 400 h.p. motor.

7-29-1974 33-07025 Field Report Open Discharge 9.47 cfs

This measurement was made with a McCrometer meter. The well pump was powered by a 400 h.p. motor.

7-9-1979 33-07065 Field Report Press. Mainline 3.96 cfs

This was an annubar measurement. The system included a 400 h.p. motor to power the well pump and two booster pumps powered by 200 h.p. motors. This measurement is suspect for several reasons. First, the measurement is much lower than previously recorded.

Second, the field examiner did not record whether the booster pumps were on or off. Third, discharge pressure is not indicated. Fourth, the field examiner did not indicate the number of wheel lines in operation on the system at the time of the measurement. It is possible that this measurement was made with only six of the 24 1/4-mile wheel lines in operation because there are only six lines on the 33-07065 portion of the system. Six lines would not reflect the capacity of the entire system.

6-14-1989 33-07065 Pump Test Press. Mainline 5.76 cfs

This was a Hall meter measurement. The system included the same pump and 400 h.p. motor as in all the previous exams, as well as one 200 h.p. booster motor and pump. The measurement and tests were made with the booster pump OFF. The system pressure was 19 psi, and the system efficiency was estimated as being between 47.2% and 61.4%.

The 5.76 cfs rate is suspect as a measurement of the capacity of this system because the booster pump was off. It is not likely that the system would normally be run with the booster off, and measurement of the capacity of the system without operating the booster could result in significant errors. Moreover, a discharge pressure of 19 psi would be insufficient to meet the requirements of the system, which includes two miles of mainline and sprinklers which normally operate with a minimum pressure of about 25 psi. The low pressure reading and low efficiency rating are both indications that the booster pump is essential to pressurize the system for efficient operation. Moreover, an analysis of the pump curve for the well pump indicates that lowering the total head of the well pump by adding a booster pump could significantly increase the diversion rate, perhaps to as high as 4000 gpm (8.9 cfs) or more.

7-19-1994

I checked the operation of the system in the field. I saw the 400 h.p. well motor and pump and the 200 h.p. booster motor and pump operating together. The system pressure gauge read 54 psi. The system was operating 24 1/4-mile wheel lines simultaneously. There were 31 sprinklers per wheel line. The last (easternmost) wheel line, two miles from the pump, had large nozzles with an average pitot tube pressure reading of 10 psi. The next to the last wheel line had 13/64" nozzles with an average pressure reading of 22 psi. Based on my field data, I made the following theoretical calculations for diversion capacity from this irrigation system.

- Assuming 284 feet to water. (See Pump Test in 33-07065.)
Assuming 70% efficiency with booster.

$$\frac{8.8 * 0.7 * 600 \text{ h.p.}}{(2.31 * 54 \text{ psi}) + 284 \text{ ft.}} = 9.04 \text{ cfs}$$

- Assuming 384 feet to water. (See Pump Test in 33-07065.)
Assuming 70% efficiency with booster.

$$\frac{8.8 * 0.7 * 600 \text{ h.p.}}{(2.31 * 54 \text{ psi}) + 384 \text{ ft.}} = 7.27 \text{ cfs}$$

- Assuming a 13/64" nozzle at 22 psi produces about 5.5 gpm.
(See page V-4 of the 12/91 version of Energy Division's
Energy-Efficient Irrigation Practices Handbook.)
Also assuming the farmer attempts to achieve a fairly uniform
diversion rate per sprinkler across the entire place of use.

$$24 \text{ lines} * \frac{31 \text{ sprinklers}}{\text{line}} * \frac{5.5 \text{ gpm}}{\text{sprinkler}} * \frac{1 \text{ cfs}}{448.8 \text{ gpm}} = 9.12 \text{ cfs}$$



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 - (208) 327-7900

CECIL D. ANDRUS

GOVERNOR

R. KEITH HIGGINSON

DIRECTOR

July 5, 1990

Mr. Keith Nickerson
Rural Route
Howe, ID 83213

Dear Mr. Nickerson:

Enclosed are the results of the tests conducted on your pumps last summer.

The purpose of these tests is to identify pumps that may be inefficient and to determine any savings that could be achieved if the pumps were rebuilt or replaced. This report includes the summarized data for the 400 Hp pump in two different possible drawdown conditions. An analysis of the 200 Hp booster was not possible because a velocity measurement could not be made due to the high velocity in the 9 9/16 inch booster pipe line.

I hope you find this information useful. If you have any questions about this information, please feel free to contact me at 327-7984.

Sincerely,

A handwritten signature in cursive script that reads "Jon Bowling".

Jon Bowling
Agricultural Engineer (EIT)

JB/vm

Enclosure

SUMMARY OF PUMPING-PLANT EFFICIENCY TESTS

Owner: Keith Nickerson

<u>Pump I.D.</u>	<u>Flow (GPM)</u>	<u>Pressure PSI</u>	<u>Head (ft)</u>	<u>Pumping Plant Efficiency (%)</u>	<u>Rating</u>	<u>Calculated Brake Hp</u>
400 Hp 284 feet	2588	19	331	47.2	Low	413
400 Hp 384 feet	2588	19	431	61.4	Fair	413

Observations:

The data from the pumping-plant efficiency test for the 400 Hp pump is summarized in the above table. The pumping water level of the well could not be accurately measured because of cascading water, and the tape would not go down the well. The above table is based on a pumping level of 284 feet (zero drawdown on static water level of 284) and a possible pumping water level of 384 feet (100 feet of drawdown on the static water level of 284 feet).

The 400 Hp pump, operating without the booster, had a discharge of approximately 2,588 gallons per minute (gpm) at a pressure of 19 pounds per square inch (psi). If the pumping water level in the well was 284 feet (zero drawdown), the pumping-plant efficiency would be 47.2 percent. A pumping-plant efficiency of 47.2 percent is considered very low for a 400 Hp pumping plant. If the pumping water level was 384 feet (100 feet drawdown), the pumping-plant efficiency would be 61.4 percent. An efficiency of 61.4 percent is considered fair for a 400 Hp pumping plant. The probable maximum efficiency for a 400 Hp pumping plant, if the pump were rebuilt or replaced, would be 73.6 percent (92 percent motor efficiency and 30 percent pump efficiency). The cause for the low efficiency could be worn bowls, or it could be that the pump is not operating according to the manufacturer's specifications. If the 400 Hp pump were rebuilt or replaced and operated at the tested discharge of 2,588 gpm and pressure of 19 psi with an assumed pumping-plant efficiency of 73.6 percent, the annual energy-cost savings would

be approximately \$10,980 and \$5,082 for zero drawdown and 100 feet drawdown, respectively.

It should be noted that even if the 400 Hp pump were rebuilt or replaced, the pumping-plant efficiency may not reach 73.6 percent at the tested discharge and pressure. It may be that a different pump would be better suited for this application.

The actual pumping water level is probably somewhere between 284 and 384 feet; therefore, the actual savings realized will also be somewhere between \$10,980 and \$5,082 per year.

These pump tests only give an indication that there may be a problem. It is recommended that a knowledgeable, qualified pump dealer be consulted before any repairs or changes are considered. If possible, try to obtain the manufacturer's pump curves and consult with the pump dealer to determine if the pumps are operating at their design conditions or if they are actually worn.

RESULTS

Pumping-plant efficiencies can be judged from low to excellent using the information shown in the table below. The numbers shown represent the combined efficiencies of pumps and their associated motors. Notice that efficiencies, even for pumps and motors in excellent condition, do not approach 100 percent. This is because the peak efficiency of a new motor will be in the range of 85 to 95 percent, while the peak efficiency of a new pump will be in the range of 75 to 85 percent. The overall pumping-plant efficiency (or wire-to-water efficiency) as defined in this report is the product of the motor and pump efficiencies (i.e., $.80 \times .90 = .72$). For simplicity, minor efficiency losses are not considered here. Notice also that the efficiencies of large pumping plants can be expected to be higher than that of smaller plants. The information shown in the table is based on the results of thousands of tests conducted in the west by Pacific Gas and Electric Company.

Electric Powered Pump Standards for Tested Efficiencies

(from Pacific Gas and Electric Company
77 Beale Street, San Francisco, California 94106)

Motor Size (HP)	Ratings			
	Low	Fair	Good	Excellent
3-5	41.9 or less	42-49.9	50-54.9	55 or above
7.5-10	44.9 or less	45-52.9	53-57.9	58 or above
15-30	47.9 or less	48-55.9	56-60.9	61 or above
40-60	52.9 or less	53-59.9	60-64.9	65 or above
75 +	55.9 or less	56-62.9	63-68.9	69 or above

PUMP TEST SUMMARY

OWNER OF PUMP: KEITH NICKERSON

PUMP I.D.: 400 HP MAIN, 284 FT PUMPING LEVEL

DATE OF PUMP TEST: 6/14/89

TOTAL DYNAMIC HEAD:

- A) PUMPING WATER LEVEL 284.00 FT (WATER LEVEL TO CENTER OF DISCHARGE PIPE)
- B) HEIGHT OF PRESSURE GAUGE 3.00 FT (CENTER OF DISCHARGE PIPE TO GAUGE)
- C) FRICTION LOSS 1.00 FT (PUMP INTAKE TO GAUGE)
- D) DISCHARGE PRESSURE 19.00 PSI (43.89 FT)

TOTAL DYNAMIC HEAD (A+B+C+D)= 331.89 FT

FLOW MEASUREMENT:

- | | |
|------------------|-------------|
| A) COLLINS METER | 0.00 GPM |
| B) HALL METER | 2583.02 GPM |
| C) ANNUBAR METER | 0.00 GPM |

INPUT HORSEPOWER:

KW= 460.0 AMP X 483.0 VOLTS X 0.89 PF X 1.732/1000= 342.49

HP=1.34 X 342.49=458.93

WATER HORSEPOWER:

HP= 2583.02 GPM X 331.89 TDH / 3960=216.48

PLANT EFFICIENCY:

EFF= WATER HP / INPUT HP X 100= 47.17%

POTENTIAL ENERGY SAVINGS

OWNER OF PUMP: KEITH NICKERSON

PUMP I.D.: 400 HP MAIN, 284 FT PUMPING LEVEL

DATE OF PUMP TEST: 6/14/89

	400 HP MAIN (400-HP)	
	PRESENT	POTENTIAL
OVERALL PUMPING PLANT EFFICIENCY (%)	47.2	73.6
ASSUMED ELECTRIC MOTOR EFFICIENCY (%)	92.0	92.0
PUMP EFFICIENCY (%)	51.3	80.0
TOTAL VOLUME OF WATER PUMPED (ACRE-FT/YR)	951.3	951.3
PUMP DISCHARGE (GPM)	2583.0	2583.0
PUMP OPERATION (HR/YR)	2000.0	2000.0
INPUT HORSEPOWER (HP)	458.9	294.1
INPUT POWER (KW)	342.5	219.4
ESTIMATED ENERGY USE (KWH/YR):	684972.	438851.

ESTIMATED ANNUAL SAVINGS:

TOTAL ENERGY SAVINGS (KWH/YR)*	246121.
ENERGY COST SAVINGS (\$/YR @ 3.66 CENTS/KWH)	\$ 9008.02
DEMAND CHARGE SAVINGS (\$/SEASON)**	\$ 1973.89
TOTAL COST SAVINGS (\$/YR)	\$10981.91

* ENERGY SAVINGS BASED ON INSTALLATION OF NEW BOWLS DESIGNED TO DELIVER THE TESTED DISCHARGE AND PRESSURE AT 80.0% PUMP EFFICIENCY, 92.0 % MOTOR EFFICIENCY, AND AN OVERALL EFFICIENCY OF 73.6%.

** DEMAND CHARGE SAVINGS COMPUTED ASSUMING PUMP OPERATES 4.0 MONTHS PER YEAR.

PUMP TEST SUMMARY

OWNER OF PUMP: KEITH NICKERSON

PUMP I.D.: 400 HP MAIN, 384 FT PUMPING LEVEL

DATE OF PUMP TEST: 6/14/89

TOTAL DYNAMIC HEAD:

- A) PUMPING WATER LEVEL 384.00 FT (WATER LEVEL TO CENTER OF DISCHARGE PIPE)
- B) HEIGHT OF PRESSURE GAUGE 3.00 FT (CENTER OF DISCHARGE PIPE TO GAUGE)
- C) FRICTION LOSS 1.00 FT (PUMP INTAKE TO GAUGE)
- D) DISCHARGE PRESSURE 19.00 PSI (43.89 FT)

TOTAL DYNAMIC HEAD (A+B+C+D)= 431.89 FT

FLOW MEASUREMENT:

- | | |
|------------------|-------------|
| A) COLLINS METER | 0.00 GPM |
| B) HALL METER | 2583.02 GPM |
| C) ANNUBAR METER | 0.00 GPM |

INPUT HORSEPOWER:

KW= 460.0 AMP X 483.0 VOLTS X 0.89 PF X 1.732/1000= 342.49

HP=1.34 X 342.49=458.93

WATER HORSEPOWER:

HP= 2583.02 GPM X 431.89 TDH / 3960=281.71

PLANT EFFICIENCY:

EFF= WATER HP / INPUT HP X 100= 61.38%

POTENTIAL ENERGY SAVINGS

OWNER OF PUMP: KEITH NICKERSON

PUMP I.D.: 400 HP MAIN, 384 FT PUMPING LEVEL

DATE OF PUMP TEST: 6/14/89

	100 FT DRAWDOWN (400-HP)	
	PRESENT	POTENTIAL
OVERALL PUMPING PLANT EFFICIENCY (%)	61.4	73.6
ASSUMED ELECTRIC MOTOR EFFICIENCY (%)	92.0	92.0
PUMP EFFICIENCY (%)	66.7	80.0
TOTAL VOLUME OF WATER PUMPED (ACRE-FT/YR)	951.3	951.3
PUMP DISCHARGE (GPM)	2583.0	2583.0
PUMP OPERATION (HR/YR)	2000.0	2000.0
INPUT HORSEPOWER (HP)	458.9	382.8
INPUT POWER (KW)	342.5	285.5
ESTIMATED ENERGY USE (KWH/YR):	684972.	571079.
ESTIMATED ANNUAL SAVINGS:		
TOTAL ENERGY SAVINGS (KWH/YR)*		113893.
ENERGY COST SAVINGS (\$/YR @ 3.66 CENTS/KWH)		\$ 4168.48
DEMAND CHARGE SAVINGS (\$/SEASON)**		\$ 913.42
TOTAL COST SAVINGS (\$/YR)		\$ 5081.90

* ENERGY SAVINGS BASED ON INSTALLATION OF NEW BOWLS DESIGNED TO DELIVER THE TESTED DISCHARGE AND PRESSURE AT 80.0% PUMP EFFICIENCY, 92.0 % MOTOR EFFICIENCY, AND AN OVERALL EFFICIENCY OF 73.6%.

** DEMAND CHARGE SAVINGS COMPUTED ASSUMING PUMP OPERATES 4.0 MONTHS PER YEAR.

PUMP AND MOTOR NAMEPLATE DATA

PUMP DATA:

Manufacturer: Layne & Bowler

Serial No.: 74-06700

Model No.: 16 KHH

Type: verti-line

Rated Speed: 1,775

Size: 12.19 inches

MOTOR:

Manufacturer: GE

Serial No.: EJJ523015

Rated Amps: 453

Rated Speed (rpm): 1,775

Rated Voltage: 460

Rated Hp: 400

SUMMARY OF POTENTIAL ENERGY SAVINGS

OWNER OF PUMPS: KEITH NICKERSON

PUMP I.D.	PLANT EFFICIENCY (%)		POWER INPUT (KW)		ENERGY SAVINGS (KWH/YR)	COST SAVINGS (\$/YR)
	PRESENT	POTENTIAL	PRESENT	POTENTIAL		
284 FEET	47.2	73.6	342.5	219.4	246121.	10981.91
384 FEET	61.4	73.6	342.5	285.5	113893.	5081.90

BASED ON RATED CONDITIONS

ONE
STAGE (4)
STAGE



Verti-Line PUMP

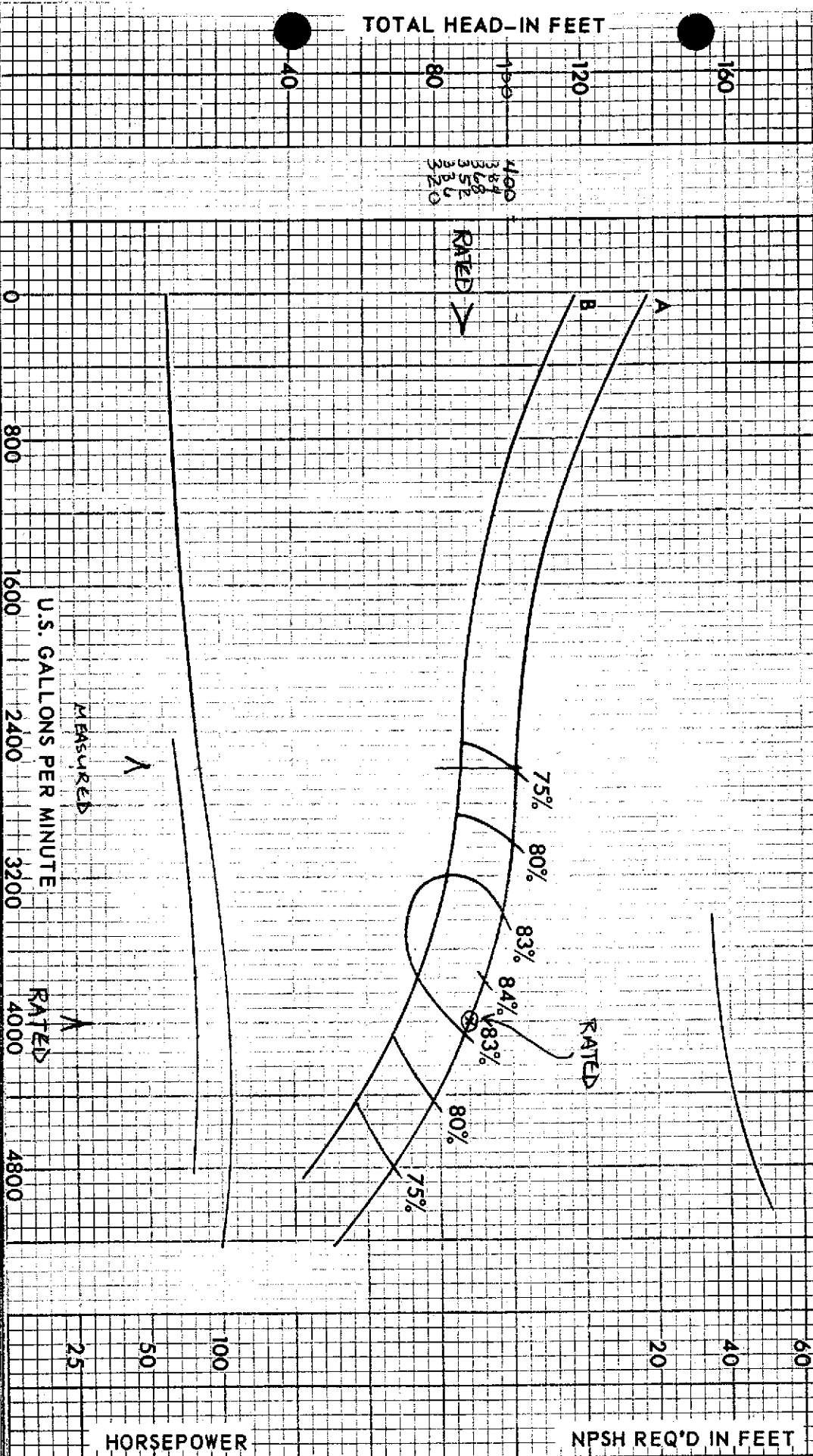
16 KHH

1770 RPM



SECTION	40
PAGE	992
DATE	2-24-65
CURVE NO.	1675

NPSH REQUIRED AT EYE
OF BOTTOM IMPELLER



LAYNE & BOWLER PUMP CO.

CITY OF INDUSTRY, CALIFORNIA - LOS ANGELES AREA

CUSTOMER

ADDRESS

JOB

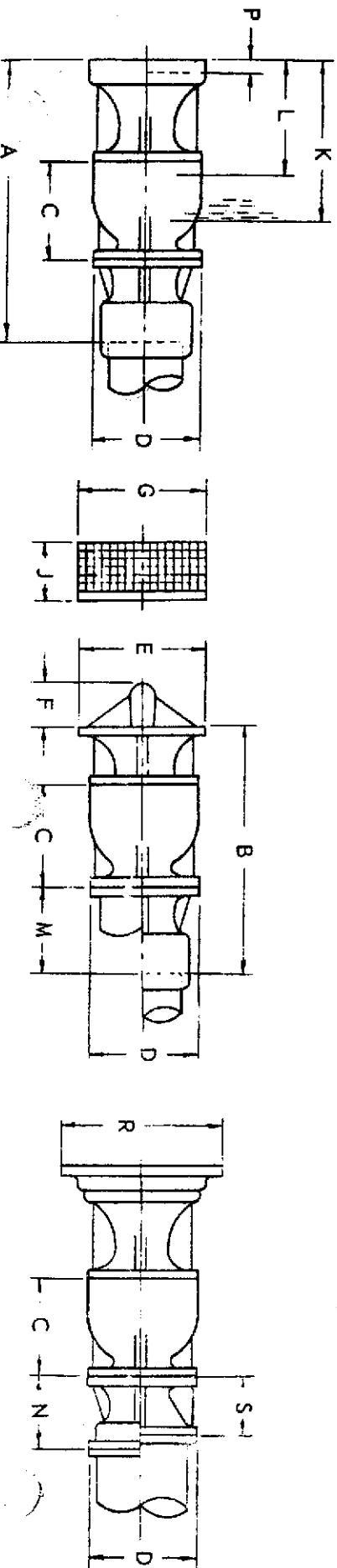
PROPOSAL #

SEE REVERSE SIDE FOR DETAILED INFORMATION

BOWL ASSEMBLY DATA

APPLICABLE DIMENSIONS

- A – Length one-stage assembly / threaded suction
- B – Length one-stage assembly / bell suction
- C – Additional stage length
- D – Bowl diameter
- E – Bell diameter
- F – Protection of bearing hub / bell suction
- G – O.D. bell suction basket strainer
- J – Basket length below bell suction lip
- K – Minimum required submergence, above bottom of bearing hub
- L – Bottom of bearing hub to impeller eye
- M – Pipe butt to top bowl flange
- N – Column pipe flange to bowl flange
- P – Suction case (or coupling) thread engagement
- R – Suction case flange diameter
- S – Flange to flange / bowl to column



December 21, 1990

ROBERT R. CHAMBERS
11439 LAURELCREST DR.
STUDIO CITY, CA 91604

RE: WATER RIGHT NO. 33-07065

Dear Water Right Holder(s):

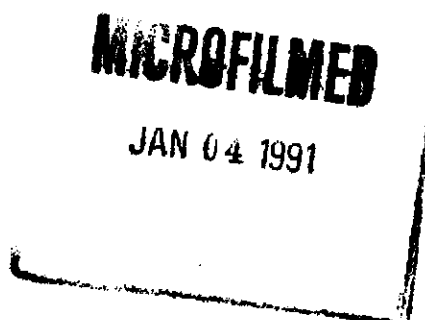
Enclosed herewith is a copy of the Water Right License issued on the above referenced permit.

Sincerely,

JIM JOHNSON
Water Rights Supervisor

JJ:blm

Enclosure



MEMORANDUM

TO: File No. 33-7065; Conditions for Licensing
FROM: Gary Spackman *Gary*
DATE: October 25, 1989

The licensing report for re-examination prepared by Keith Wilson, and submitted to the Department with the licensing report on approximately August 3, 1989, recommends that the total diversion rate from the wells authorized under this permit and license nos. 33-7009 and 33-7025 be limited to 5.76 cfs. I do not believe the Department has the authority to limit the previous licenses which were issued. The field examination is evidence, however, of a reduction in flow from the points of diversion, and may be grounds for reduction of the flow in the Snake River Adjudication. The field examination shows that the total flow rate from the wells licensed by 33-7009 and 33-7025 was 5.76 cfs on June 14, 1989. There is also some indication that the wells have not produced the amount of water licensed under 33-7099 and 33-7025 for a long period of time.

Nevertheless, for purposes of licensing the condition should read:

The maximum combined rate of diversion under this right and rights no. 33-7009 and 33-7025 shall not exceed 9.16 cfs.

The flow rate that should be licensed is 1.45 cfs.

I do not believe that any special volume limitations need be imposed, other than the volume limitation for the 154.2 acres which are being licensed.

MICROFILMED

JAN 04 1991

FROM: Keith C. Wilson - Eastern

3 August 1989

TO: Gary Spackman

SUBJECT: Re-Exam of License 33-07065

Attached is the field exam that was conducted on this license as per your letter of March 2, 1987(see enclosed copy.) The actual flow measurement was done by the Energy Section on June 14, 1989. Hopefully, this is sufficient for your needs. Also enclosed is Glen Hough's business card. Mr. Hough would appreciate receiving a copy of any future correspondence, amended licenses, etc., sent to the following address:

Glen Hough
C/O Farmers National Company
P.O. Box 21016
Billings, Montana 59104

Thanks.



Keith C. Wilson
Senior Resource Agent



Billings Regional Office
2108 Broadwater, P.O. Box 21016
Billings, Montana 59104
(406) 656-2133

The Nation's Largest Farm and Ranch Management Company
Management ■ Sales ■ Appraisals ■ Insurance ■ Commodity Trading

Glen Hough, Farm and Ranch Manager-
Home Phone 406-373-5986

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JAN 04 1991

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

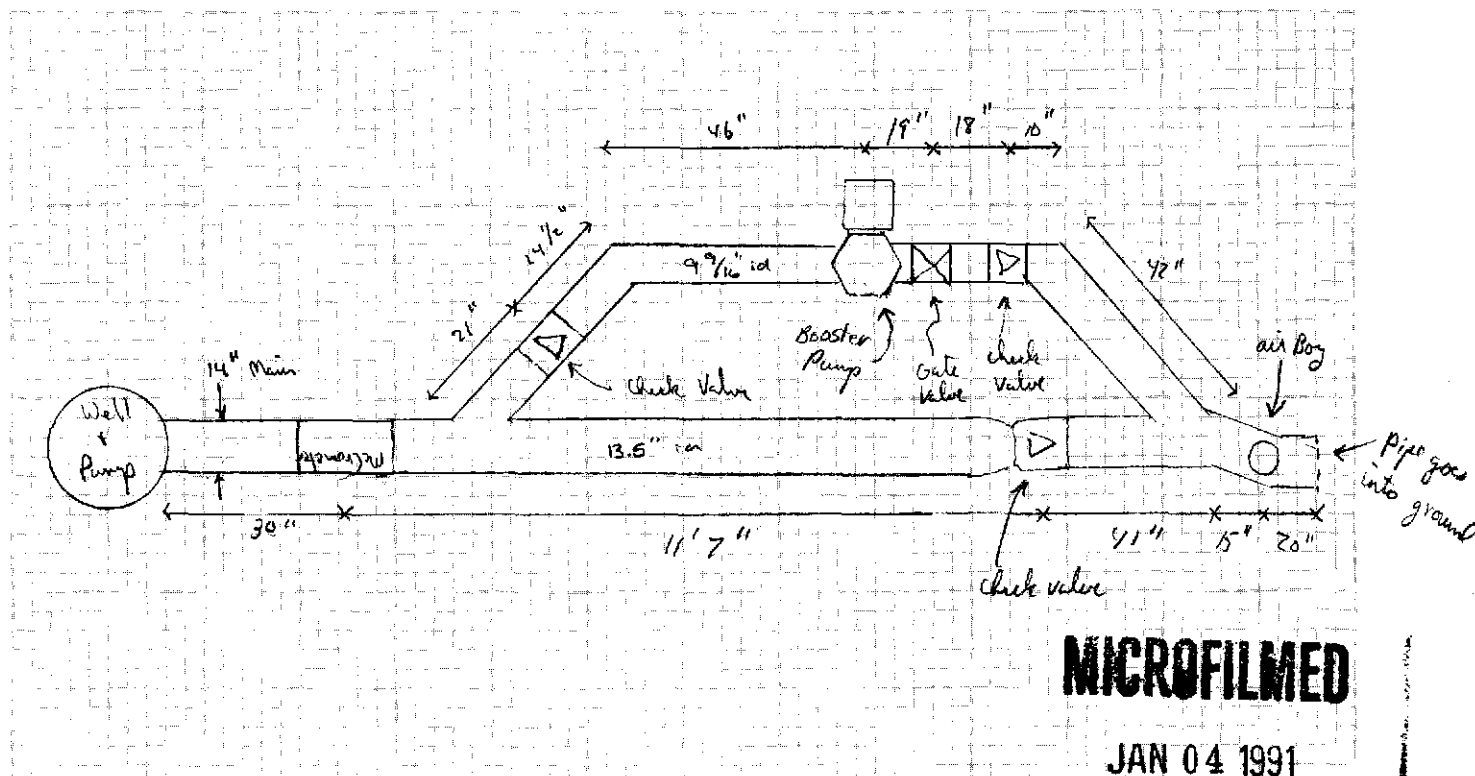
Permit No. 33-7065
1. Owner: Robert R Chambers Phone No. _____
Current Address: 11439 Laurelcrest Drive Studio City Calif.
2. Accompanied by: Kieth Nickerson's Son EXAM. DATE: 7-13-89
Address: Howe ID. Phone No. 767-3320
Relationship to Permit Holder: _____
3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: None ☐ Copies Attached
2. Other water rights with same point of diversion: 33-7009 33-7025 ☒ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



Scale: 1" = _____

2. ☒ Copy of U.S.G.S. Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).
☐ Photo of Diversion and System Attached (required for all but single household domestic groundwater, and stockwater).
☒ Aerial Photo Attached (required for irrigation of 10 acres or more).

System Description (continued)

3. **Narrative:** Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

☐ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
<i>Booster</i>	<i>Lincoln</i>	<i>200</i>	<i>L426209</i>	<i>PACO</i>	<i>99C02866</i>
<i>well</i>	<i>GE</i>	<i>400</i>	<i>EJJ523015</i>	<i>Layne & Bouler</i>	<i>74-06700</i>

*Code to correspond with No. on map and aerial photo

5. **Point(s) of Diversion:**

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			<i>NW</i>	<i>SW</i>	<i>25</i>	<i>6N</i>	<i>29E</i>	<i>Butte</i>	<i>Onsite inspection + USGS map.</i>

6. **Place(s) of Use:**

Indicate Method of Determination

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
<i>6N</i>	<i>30E</i>	<i>30</i>													<i>40</i>	<i>40</i>	<i>352</i>	<i>39</i>	<i>154.2</i>
															<i>Total</i>				<i>154.2</i>

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MICROFILMED

JAN 04 1991

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
GOT Meas. From Boise office Pump Eff. Test						

2. Measurements:

Q = 5.76 cfs from pump efficiency test 6-14-89 see enclosed copy

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (154.2)(2.5) = 385.5$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (1.45)(214)(1.9835) = 615.48$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 385.5$

2. Volume Calculations for Other Uses:

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JAN 04 1991

H. REMARKS AND OVERLAP REVIEW ANALYSIS

Due to points of diversion overlap I recommend condition <<R17>>

The maximum combined rate of diversion under this right and right numbers 33-7009 and 33-7025 shall not exceed 5.76 cfs.

I also recommend condition <<R-38>> The rate of diversion and the annual volume under this right shall be apportioned to the place of use so that such irrigated area will receive an equal portion of water when all rights appurtenant to the place of use from the same source are considered cumulatively.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	4/1	11/1	1.45	385.5
Totals:			1.45	385.5

2. Recommended Amendments

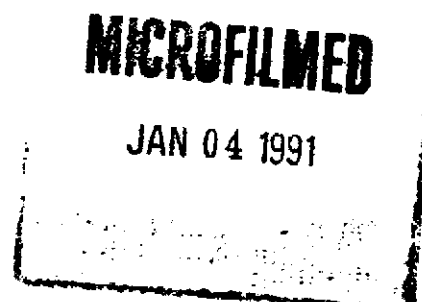
- ☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

J. AUTHENTICATION

Field Examiner's Name Kelly Schild
Signature Kelly Schild
Certification Date _____
Field Report Preparation Date 8/3/89

CONSULTANT SEAL

- K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
LICENSING REPORT

33-7065
PERMIT NO.

POINT OF DIVERSION OVERLAP

Q = 5.76 cfs from Pump efficiency test done 6/14/89

(1) Current irrigation rate = $5.76 \text{ cfs} \div 612.2 \text{ ac} = 0.0094086 \text{ cfs/ac}$
for entire system
33-7009 & 33-7025 acreage = 458 ac
33-7065 acreage = 154.2 ac
612.2 ac

(2) Old irrigation application rate = 0.02 cfs/ac

33-7009 @ 8.0 cfs
33-7025 @ 1.16 cfs
9.16 cfs $\div 458 \text{ ac} = 0.02 \text{ cfs/ac}$

(3) Old application rate > Current application rate & Permit (33-7065) on new lands (only); therefore, only new lands will be licensed at current application rate:

$$Q = 154.2 \text{ ac} \times 0.0094086 \text{ cfs/ac} = 1.45 \text{ cfs}$$

$$\text{Total } Q_{\text{LICENSED}} = 8.0 \text{ cfs} + 1.16 \text{ cfs} + 1.45 \text{ cfs} = 10.61 \text{ cfs}$$

This exceeds system capacity

Therefore, must have a capacity limiter:

The maximum combined rate of diversion under this right and rights # 33-7009 and 33-7025 shall not exceed 5.76 cfs

MICROFILMED

JAN 04 1991

Keith C. Wilson
SIGNATURE

Page ___ of Page ___

Point of
Diversion

LOST

33-7065

R29E

T6N

Place of use
for 33-7065

Place of use
for 33-7009/7025

MICROFILMED

JAN 1991

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Place of use
for 33-7065

40 ac

39 ac

40 ac

39 ac

33-7065

20Z

R 30E

#29E

INTERFORMED

JAN 14 1951

Point of Burial

Page 30



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

RE-EXAM 33-7065

CECIL D. ANDRUS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

March 2, 1987

RECEIVED

MAR 4 1987

Department of Water Resources
Eastern District Office

John Stratman
Metropolitan Life
1001 South 24th Street West
Suite 103
Billings, MT 59102

Brian Fields
Metropolitan Life
P.O. Box 7096
Great Falls, MT 59406

Re: Bob Chambers Water Rights/License Nos. 33-7009, 33-7025, &
33-7065.

Gentlemen:

It has been brought to my attention that a condition on Water Right License No. 33-7065 issued in the name of Robert R. Chambers is incorrect. The condition reads: "This right when combined with 33-7009 and 33-7025 shall provide no more than 3.96 cfs." The condition is not appropriate in that it can be interpreted to mean that License No. 33-7065 restricts the flow rate previously licensed under 33-7009 and 33-7025.

We interpret the Idaho statutes governing licensing for a water right as not giving the authority to adjust previous licenses as part of the licensing process. In License No. 33-7065 cannot reduce the amounts previously licensed under 33-7009 and 33-7025.

We intend to correct the misleading condition shown on License No. 33-7065. The correction process will require a re-examination of Mr. Chambers's system in the summer of 1987. At that time, an amended water right license will be issued, and appropriate conditions attached to reflect the capacity of his system.

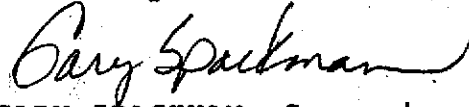
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JAN 04 1991

NOTE MAINLINE
MAY BE 14" id

I hope that this letter satisfies any questions which have hampered efforts by Mr. Chambers to obtain financing.

Sincerely,



GARY SPACKMAN, Supervisor
Water Allocation Section

GS:jf

CC: Eastern Region
Bob Chambers

MICROFILMED

JAN 04 1991

Keith Willson
(Eastern)

PUMP TEST SUMMARY

Pumping Unit: KEITH NICKERSON 400 hp (Running Alone) Date: 6/14/89

Total Dynamic Head:

Pump could not be measured because of circulating water & because tape would not go down well

a) pumping water level: air line length _____ ft
 air line pressure (psi) static _____ pumping _____
 air line reading (ft) static _____ pumping _____
 Fisher or steel tape (ft) static 284 pumping 234
 b) discharge pres.: City gage _____ psi IDWR 19 x 2.31 = 44 ft 39
 c) press. gauge height (from center line of disch. pipe) 3 ft
 d) friction losses (pump intake to pressure gauge) _____ ft
 TDH = (a + b + c + d) = _____ ft

Electric Powered Pump Standards For Tested Efficiencies (from Pacific Gas & Electric Company, 77 Beale Street, San Francisco, CA 94106)				
Motor Size (HP)	Ratings			
	Low	Fair	Good	Excellent
3-5	41.9 or less	42-49.9	50-54.9	55 or above
7.5-10	44.9 or less	45-52.9	53-57.9	58 or above
15-30	47.9 or less	48-55.9	56-60.9	61 or above
40-60	52.9 or less	53-59.9	60-64.9	65 or above
75+	55.9 or less	56-62.9	63-68.9	69 or above

(see below) Q = _____ gpm

OHP = Q x TDH ÷ 3960 = _____ hp 216.3
231.6

(see attached data) IHP = 458.9 hp

Eff. = OHP ÷ IHP x 100 = _____ % 47.1%
61.4%

City flow meter data:

Gallons _____ seconds 1) _____ 2) _____ 3) _____ Ave _____

Type McCrometer
doesn't work

Computed Flow Rate _____ gpm

FLOW MEASUREMENT

Pipe Circ (C) _____ in Thickness (T) _____ in Dia. (D) = 13.5 in

Inside Radius (IR) = (0.1592 x C) - T = _____ in 9 9/16 *well pump booster meter*

Station Factors (F)	Stations (IR x F)		Velocity (V)	
	dec	in	R	L
A) 0.051	.3443	3/8	5.45	5.70
B) 0.163	1.1003	1 1/8	5.45	5.50
C) 0.293*	1.9778	2	5.65	5.05
D) 0.453	3.0578	3 1/2	5.85	5.85
E) 0.684	4.6170	4 5/8	5.80	5.70
F) 1.316	8.8330	8 7/8	6.20	6.20
G) 1.547	10.4423	10 7/16	6.20	6.20
H) 1.707*	11.5223	11 1/2	6.0	6.0
I) 1.837	12.3498	12 3/8	5.80	5.85
J) 1.949	13.1558	13 1/8	5.20	5.60
Average Velocity (V): <u>5.7925</u>				

DECIMAL TO FRACTION
CONVERSIONS
(TO 1/16 INCH)

0.0000	- 0.0313	0
0.0313	- 0.0938	1/16
0.0938	- 0.1563	1/8
0.1563	- 0.2188	3/16
0.2188	- 0.2813	1/4
0.2813	- 0.3438	5/16
0.3438	- 0.4063	3/8
0.4063	- 0.4688	7/16
0.4688	- 0.5313	1/2
0.5313	- 0.5938	9/16
0.5938	- 0.6563	5/8
0.6563	- 0.7188	11/16
0.7188	- 0.7813	3/4
0.7813	- 0.8438	13/16
0.8438	- 0.9063	7/8
0.9063	- 0.9688	15/16
0.9688	- 1.0000	1

V (ft/min) **MICROFILMED**

* two-point method

Flow: Q = 2.451 x V x (2 x IR)² x _____ corr. factor = _____ gpm

= 2.451 x 5.7925 x (13.5)² = 2587.5 gpm

= 5.76 cfs

JAN 04 1991

2587.5

INPUT HORSEPOWER

Pumping Unit: KEITH NICKERSON Date: 6/14/89

Kilowatt-Hour Meter Method:

Utility UP&L Type SADA
 Manufacturer SANGAMO Serial No. 41 980 973
 Demand 3.19 x 180 = 574.2 Model No. D2.5Y33909
 Disc Constant (Kh) 2.4 (3.6 face) Rated Voltage 240
 Meter Multiplier 180

CL=20

Trial	Revolutions	Seconds
1	<u>5</u>	<u>26.02</u>
2	<u>5</u>	<u>25.94</u>
3	<u>5</u>	<u>25.96</u>

R_r = 83.3

Average Disc Rev.: N = 5 rev Average Time: T = 25.97 sec

Input Kilowatts: IKW = 3.6 x Kh x Mult x N ÷ T = kW

Input Horsepower: IHP = IKW x 1.34 = hp

Volt/Amp Measurement Method:

	Volts	Amps
1-2	<u>474</u>	1 <u>450</u>
2-3	<u>486</u>	2 <u>428</u>
1-3	<u>488</u>	3 <u>502</u>

Average Voltage: V = 483 volts Average Amperage: A = 460 amps

Power Factor (PF) : .91 .86 .89 Comments

Input Kilowatts: ^{.89} IKW = PF x V x A x √3 ÷ 1000 = 342.5 kW

Input Horsepower: IHP = IKW x 1.34 = 458.9 hp

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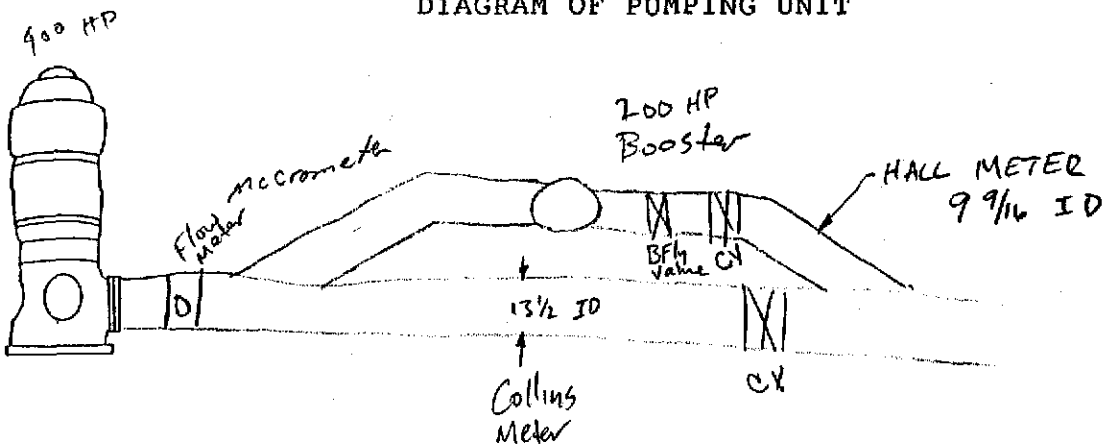
JAN 04 1991

PUMP AND MOTOR

Pumping Unit: KATH NICKERSON 400 HP MAIN ALONE Date: 6/19/89
 Pump Data: LAYNE & BOWLER Motor Data:
 Manufacturer VERTI-LINE Manufacturer GE
 Serial No. 74 - 06700 Serial No. E11523015
 Model No. 16KHH Rated Horsepower (hp) 400
 Type VERTI-LINE Rated Amperage (amps) 453
 No. of Stages _____ Rated Voltage (volts) 460
 Rated Speed (rpm) _____ Rated Speed (rpm) 1775
 Rated Discharge (gpm) 4000 Phase 3
 Rated TDH (ft.) 348 Service Factor 1.5
 Other Data _____ Other Data _____

Remarks _____

DIAGRAM OF PUMPING UNIT



MICROFILMED

JAN 04 1991

Kiern Willson
(Eastern)

PUMP TEST SUMMARY

Pumping Unit: KEITH NICKERSON 200 HP Booster Date: 6/14/89

Total Dynamic Head:

Suction side P = 16 #/in²

a) pumping water level: air line length _____ ft

air line pressure (psi) static _____ pumping _____

air line reading (ft) static _____ pumping _____

Fisher or steel tape (ft) static 284 pumping _____

b) discharge pres.: City gage _____ psi IDWR 43 x 2.31 = 99.3 ft

c) press. gauge height (from center line of disch. pipe) 1.75 ft

d) friction losses (pump intake to pressure gauge) _____ ft

TDH = (a + b + c + d) = _____ ft

Electric Powered Pump Standards For Tested Efficiencies (from Pacific Gas & Electric Company, 17 Beale Street, San Francisco, CA 94106)				
Motor Size (HP)	Ratings			
	Low	Fair	Good	Excellent
3-5	41.9 or less	42-49.9	50-54.9	55 or above
7½-10	44.9 or less	45-52.9	53-57.9	58 or above
15-30	47.9 or less	48-55.9	56-60.9	61 or above
40-60	52.9 or less	53-59.9	60-64.9	65 or above
75+	55.9 or less	56-62.9	63-68.9	69 or above

(see below) Q = 2510.2 gpm

OHP = Q x TDH ÷ 3960 = _____ hp

(see attached data) IHP = 291.7 hp

Eff. = OHP ÷ IHP x 100 = _____ %

City flow meter data:

Gallons _____ seconds 1) _____ 2) _____ 3) _____ Ave _____

Type McCrometer

Computed Flow Rate _____ gpm

doesn't work

FLOW MEASUREMENT

Pipe Circ (C) _____ in Thickness (T) _____ in Dia. (D) = 9 9/16 in

Inside Radius (IR) = (0.1592 x C) - T = _____ in

Station Factors (F)	Stations (IR x F)		Velocity (V)	
	dec	in	R	L
A) 0.051				
B) 0.163				
C) 0.293*				
D) 0.453				
E) 0.684				
F) 1.316				
G) 1.547				
H) 1.707*				
I) 1.837				
J) 1.949				
Average Velocity (V):				

DECIMAL TO FRACTION
CONVERSIONS
(TO 1/16 INCH)

0.0000 - 0.0313	0
0.0313 - 0.0938	1/16
0.0938 - 0.1563	1/8
0.1563 - 0.2188	3/16
0.2188 - 0.2813	1/4
0.2813 - 0.3438	5/16
0.3438 - 0.4063	3/8
0.4063 - 0.4688	7/16
0.4688 - 0.5313	1/2
0.5313 - 0.5938	9/16
0.5938 - 0.6563	5/8
0.6563 - 0.7188	11/16
0.7188 - 0.7813	3/4
0.7813 - 0.8438	13/16
0.8438 - 0.9063	7/8
0.9063 - 0.9688	15/16
0.9688 - 1.0000	1

V (Hall) = 11.2

* two-point method

Flow: Q = 2.451 x V x (2 x IR)² x _____ corr. factor = _____ gpm

2510

400 HP
15/200 HP
Booster
Running

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JAN 04 1991

INPUT HORSEPOWER

Pumping Unit: KEITH NICKERSON 200 HP BOOSTER Date: 6/14/89

Kilowatt-Hour Meter Method:

Utility UPCL Type SADA

Manufacturer SANGAM Serial No. 41 980 973

Demand 3.19 x 180 = 574.2 Model No. 2D. 5433909

Disc Constant (Kh) 2.4 (3.6 face) Rated Voltage 240

Meter Multiplier 100 $R_p = 83\frac{1}{3}$

Trial	Revolutions	Seconds
1	<u>5</u>	<u>14.97</u>
2	<u>5</u>	<u>14.90</u>
3	<u>5</u>	<u>15.06</u>

Average Disc Rev.: $N = \underline{5}$ rev Average Time: $T = \underline{14.98}$ sec

Input Kilowatts: $IKW = 3.6 \times Kh \times Mult \times N \div T = \underline{\hspace{2cm}}$ kW

Input Horsepower: $IHP = IKW \times 1.34 = \underline{\hspace{2cm}}$ hp

Volt/Amp Measurement Method:

	Volts <u>MAIN</u>	VOLTS <u>BOOSTER</u>	Amps <u>MAIN</u>	AMPS <u>BOOSTER</u>
1-2	<u>470</u>	<u>482</u>	1 <u>484</u>	<u>288</u>
2-3	<u>480</u>	<u>470</u>	2 <u>461</u>	<u>250</u>
1-3	<u>488</u>	<u>484</u>	3 <u>542</u>	<u>280</u>
		<u>478.667</u>		

Average Voltage: $V = \underline{479.33}$ volts Average Amperage: $A = \underline{495.667}$ amps 272.667

Power Factor (PF): MAIN .93, .91, .90 $\Rightarrow PF = .9067$ Comments BOOSTER .95, .94, .90 $\Rightarrow PF = .93$

Input Kilowatts: $IKW = PF \times V \times A \times \sqrt{3} \div 1000 = \underline{373.1}$ kW 210.2

Input Horsepower: $MAIN IHP = IKW \times 1.34 = \underline{500.0}$ hp
 $BOOSTER IHP = \underline{281.7}$

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JAN 04 1991

PUMP AND MOTOR

KEITH NIKERSON

Pumping Unit: 200 HP Booster

Date: 6/14/89

Pump Data:

PACO

Manufacturer LINCOLN

Serial No. 99C02866

Model No. _____

Type Centrifugal

No. of Stages _____

Rated Speed (rpm) _____

Rated Discharge (gpm) _____

Rated TDH (ft.) _____

Other Data _____

Motor Data:

Manufacturer LINCOLN

Serial No. 1426209

Rated Horsepower (hp) 200

Rated Amperage (amps) 223

Rated Voltage (volts) 460

Rated Speed (rpm) 1780

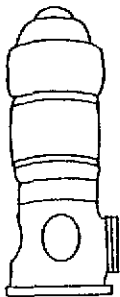
Phase 3

Service Factor _____

Other Data _____

Remarks _____

DIAGRAM OF PUMPING UNIT



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JAN 04 1991



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

CECIL D. ANDRUS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

March 2, 1987

John Stratman
Metropolitan Life
1001 South 24th Street West
Suite 103
Billings, MT 59102

Brian Fields
Metropolitan Life
P.O. Box 7096
Great Falls, MT 59406

Re: Bob Chambers Water Rights/License Nos. 33-7009, 33-7025, &
33-7065.

Gentlemen:

It has been brought to my attention that a condition on Water Right License No. 33-7065 issued in the name of Robert R. Chambers is incorrect. The condition reads: "This right when combined with 33-7009 and 33-7025 shall provide no more than 3.96 cfs." The condition is not appropriate in that it can be interpreted to mean that License No. 33-7065 restricts the flow rate previously licensed under 33-7009 and 33-7025.

We interpret the Idaho statutes governing licensing for a water right as not giving the authority to adjust previous licenses as part of the licensing process. In other words, License No. 33-7065 cannot reduce the amounts previously licensed under 33-7009 and 33-7025.

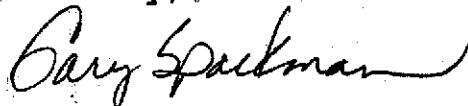
We intend to correct the misleading condition shown on License No. 33-7065. The correction process will require a re-examination of Mr. Chambers's system in the summer of 1987. At that time, an amended water right license will be issued, and appropriate conditions attached to reflect the capacity of his system.

MICROFILMED

JAN 04 1991

I hope that this letter satisfies any questions which have hampered efforts by Mr. Chambers to obtain financing.

Sincerely,



GARY SPACKMAN, Supervisor
Water Allocation Section

GS:jf

CC: Eastern Region
Bob Chambers

MICROFILMED

JAN 04 1991

Robert R. Chambers
11439 Laurelcrest Drive
Studio City, CA 91604
December 23, 1986

RECEIVED
DEC 29 1986

Mr. Jim Johnson
Department of Water Resources
State of Idaho
Statehouse
Boise, Idaho 83720

Department of Water Resources

Dear Mr. Johnson:

In accordance with our telephone conversation today concerning the capacity of my well in Howe, Idaho identified under water rights 33-7009, 33-7025 and 33-7065 there appears to be a mistake in the water right license 33-7065. At the bottom of this license there appears to be a limitation to 3.96 cfs. In our discussion you indicated someone had measured the flow from the pump and concluded that this is all the system would put out.

The piece of land is two miles long and a half mile wide and contains 631 acres. The three water rights together add up to 613 acres which is probably a fair estimate of the land actually under irrigation. The first two water rights cover the 458 acres nearest the pump and show a total of 9.16 cfs licensed. It also shows that a diversion of 9.47 cfs was measured.

When the last piece was considered, it added 155 acres to complete the field and the license was for 3.10 cfs. However there is an indication that the diversion capacity was measured at 3.96 cfs.

I believe this last was in error. The earlier two fields were using, and continue to use 18 quarter mile Thunderbird wheel lines. When the 155 acres was added six more wheel lines were added, and booster pumps were added to the pump. When I bought the farm there was a 400 HP pump on the well and two 200 HP boosters on it in parallel. The well was represented to me as testing 6500 gal/min. We have run all 24 wheel lines on the system most of the summer at times even though there have been in addition many leaks (now fixed) on the main line. I know of no reason why the measured capacity should have been less in 1979 than earlier.

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JAN 64 1991

I would certainly appreciate anything you can do to correct this matter. My impression was that the license was giving me a right to pump 12.26 cfs total for the whole system, and I'm sure my system was capable of doing more than that. I have applied for a mortgage loan, and I need to get this cleared up as quickly as I can.

Yours truly



Robert R. Chambers

*Jim - if there is any question or request
please call me at 818-848-4824
Bob Chambers*

MICROFILMED

JAN 04 1991



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

November 2, 1981

RE: Permit No. 33-7065

Robert R. Chambers
11439 Laurelcrest Drive
Studio City, CA 91604

Dear Mr. Chambers:

Enclosed is a copy of the Water Right License issued on the above referenced Permit.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jim Johnson".

JIM JOHNSON
Water Distribution Supervisor

Enclosure

MICROFILMED

TOTAL ACREAGE 155

Range 30E

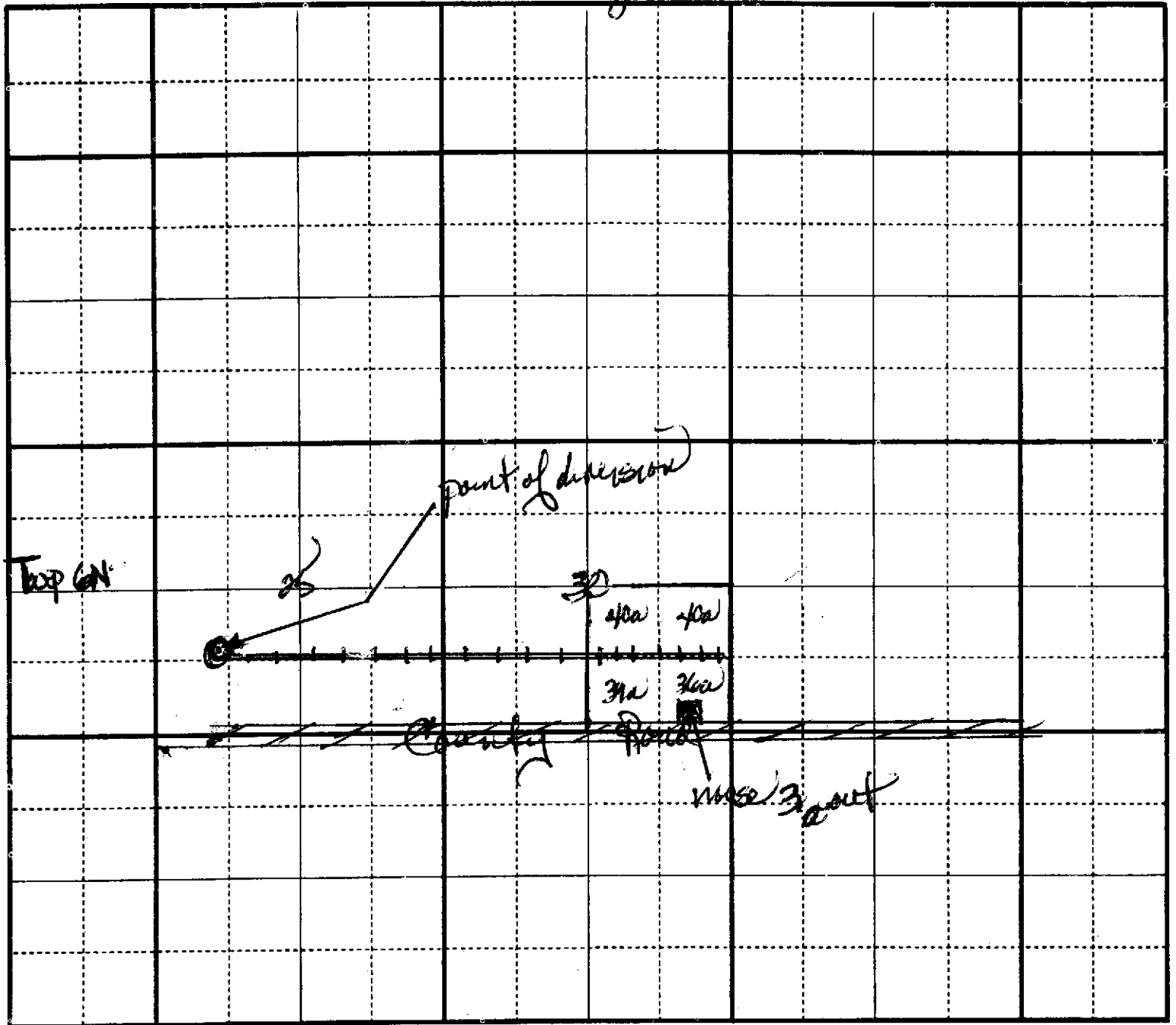
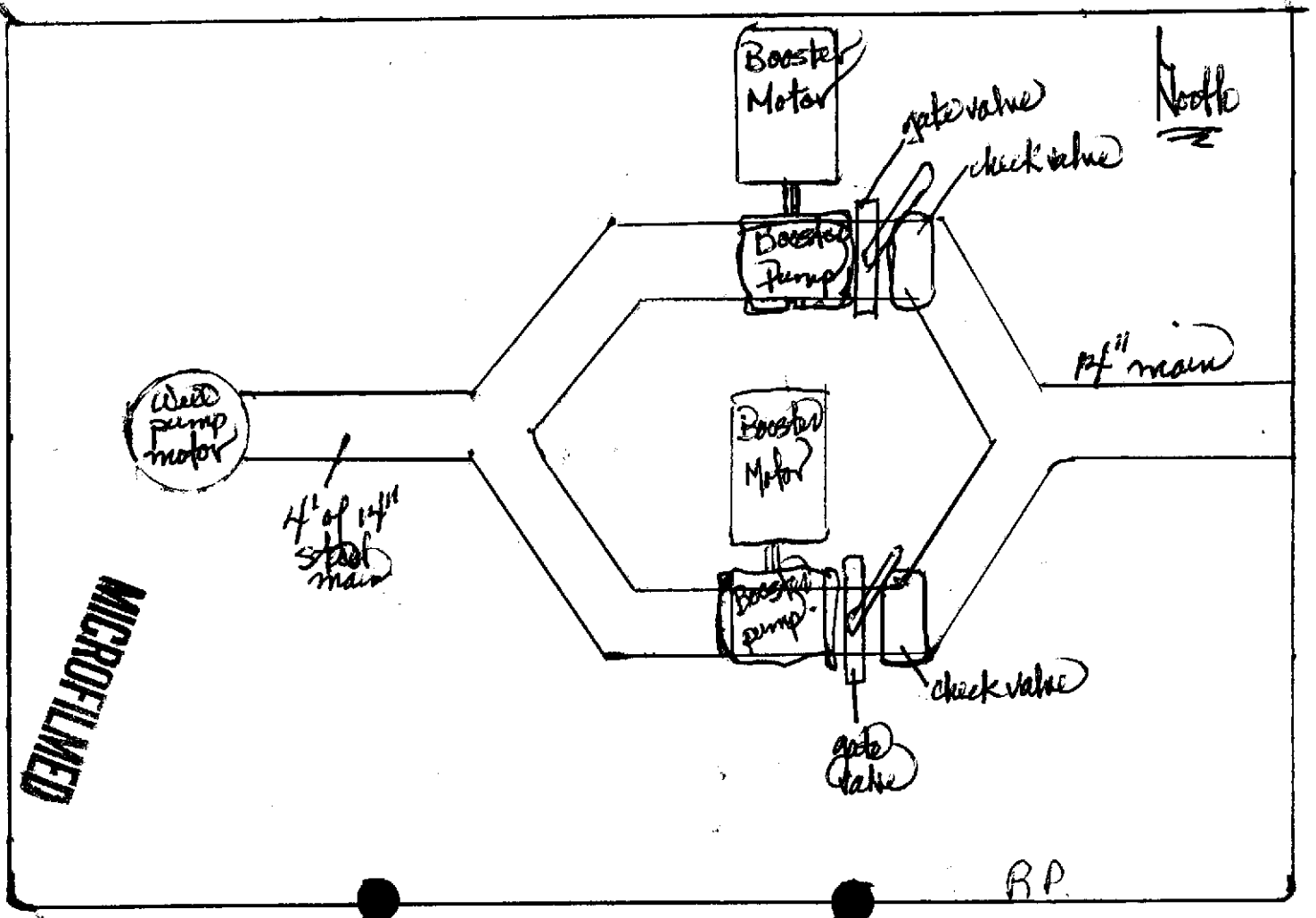


Diagram of System



C. Chambers

3-7065

F 155

F 175

H 19

B 154

B 169

B 33

J. Johnson

B 23.9

B-1
Harshbarger

B 228

347

P.D.
IN NW SW
Sec 25

wheel
lines
H.A.
wheel this

man line

main line

735

34

wheel

wheel

line

wheel line

30

MICROFILMED

DATE OF EXAM 9th day of July, 1979

ACREAGE
Found 155a
Recommended 155a

Irrigation Requirement 3.0 Ac Ft/Ac

USE
Irrigation Q = 3.10 c.f.s. V = 465 AF/Ann. from April 1 to Nov. 1
Domestic Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____
Livestock Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____

Is water co-mingled? yes _____ no X
Name source: na
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County _____

Exchange? yes _____ no X
Name source exchanged with: na
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County _____

Point of injection: na
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County _____

Point of exchange: na
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County _____

Total Q measured 3.96 cfs Method of measurement Annular
Total Q recommended 3.10 cfs Meter No. 6401 Type Annular Condition std
Total V recommended 465 AF/yr 7.981

Recommended Amendments:
P.D. _____
Place of Use _____
Other _____
None

MEASUREMENT CALCULATION:
 $Q_{gpm} = \frac{(I.D.)^2 (C \text{ inches of } H_2O)}{2.31} = \frac{(8)^2 (3.85)}{2.31} = 64 (3.85) (7.21) = 177.54 \text{ gpm}$
 $177.54 \text{ gpm} / 1.48 = 119.96 \text{ cfs}$
 $119.96 \text{ cfs} \times 3.10 \text{ cfs} = 372.876 \text{ cfs}$
 $372.876 \text{ cfs} \times 1.48 = 551.856 \text{ cfs}$
 $551.856 \text{ cfs} \times 1.48 = 816.746 \text{ cfs}$
 $816.746 \text{ cfs} \times 1.48 = 1208.784 \text{ cfs}$
 $1208.784 \text{ cfs} \times 1.48 = 1788.999 \text{ cfs}$
 $1788.999 \text{ cfs} \times 1.48 = 2647.708 \text{ cfs}$
 $2647.708 \text{ cfs} \times 1.48 = 3918.608 \text{ cfs}$
 $3918.608 \text{ cfs} \times 1.48 = 5799.54 \text{ cfs}$
 $5799.54 \text{ cfs} \times 1.48 = 8583.319 \text{ cfs}$
 $8583.319 \text{ cfs} \times 1.48 = 12703.312 \text{ cfs}$
 $12703.312 \text{ cfs} \times 1.48 = 18800.902 \text{ cfs}$
 $18800.902 \text{ cfs} \times 1.48 = 27825.335 \text{ cfs}$
 $27825.335 \text{ cfs} \times 1.48 = 41181.496 \text{ cfs}$
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 $60948.614 \text{ cfs} \times 1.48 = 89993.949 \text{ cfs}$
 $89993.949 \text{ cfs} \times 1.48 = 133191.044 \text{ cfs}$
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 30948699554



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 373 W. Franklin Street, Boise, Idaho

JOHN V. EVANS

Governor

C. STEPHEN ALLRED

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 384-2215

June 12, 1979

Robert R. Chambers
11439 Laurelcrest Drive
Studio City, CA 91604

Dear Mr. Chambers:

RE: Permit No. 33-7065

We acknowledge receipt of the affidavit submitted as proof of beneficial use for the above referenced permit.

Before a license can be issued, a field examination must be made by a representative of this Department. We cannot tell just when this examination will be made, but our examiner will try to contact you at the time he makes the examination so that you may show him the system.

If you have any questions regarding the field examination, please contact our regional office in Idaho Falls.

Sincerely,

RITA FLECK
Water Rights

MICROFILMED

RECEIVED

MAY 9 1979

Department of Water Resources
Eastern District Office

Identification No. _____

Permit No. _____

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

1. a) Name of Permit Holder Robert R. Chambers
b) Post Office Address 11439 Laurelcrest Drive, Studio City, CA 91604
2. Permit Number 33-7065
3. Date of Priority that you are prepared to establish 2/23/79
4. a) Source from which water was appropriated groundwater
b) Location of the point of diversion: NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 25
Township 6N, Range 29E Boise Meridian, Other points of diversion: _____
5. a) The amount of water and use to which the water has been applied:
Amount 3.1cfs for irrigation purposes from April 1 to Nov. 1 incl.
(cfs and/or acre-feet per annum) (Month-Day) (Month-Day)
Amount _____ for _____ purposes from _____ to _____ incl.
(cfs and/or acre-feet per annum) (Month-Day) (Month-Day)
Amount _____ for _____ purposes from _____ to _____ incl.
(cfs and/or acre-feet per annum) (Month-Day) (Month-Day)
b) Total amount appropriated 3.1 cfs and/or acre-feet per annum
c) Describe how and by whom measurement of rate of flow or amount of storage was made and the qualifications of the person making the measurement: Mel Brown & Co. of Idaho Falls installed the
pumps and meter.
6. If the means of diversion and conveyance are owned by someone other than the Permit Holder:
a) Give the name or description of the canal, ditch or other works by which the water is conducted to the place of use:

b) Describe the agreement or understanding by which you take water from the works:

7. a) Briefly describe the works for diverting and conveying the water to the place of use, (if from a subterranean source, give the pump size, motor size, size of well casing, depth of well; if from surface water, give brief description of diversion structure and/or canal or ditch) Well is 782 ft. deep, 18" diameter, 400HP motor
size plus 2 HP boosters, Mainline 18" to 8" diameter,
sprinkler system wheel lines
b) Describe the type and size of measuring device which you have installed at your point of diversion: 16" McCrometer Meter

c) Give well driller's name and address and the date the well was completed: Well was drilled before property was purchased

8. If for other than irrigation, describe the beneficial use to which you have applied the water and the place of use: _____

MICROFILMED

6/12/79



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 373 W. Franklin Street, Boise, Idaho

JOHN V. EVANS

Governor

C. STEPHEN ALLRED

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 384-2215

April 24, 1979

Re: Permit No. 33-7065

Robert R. Chambers
11439 Laurelcrest Drive
Studio City, CA 91604

Dear Mr. Chambers:

Enclosed is a copy of your approved Application for Permit. We direct your attention to the conditions of approval as listed on the fourth page.

Be sure to note the special condition requiring you to install an access port or other device to provide for the installation of measuring equipment by the Department. Enclosed are specifications for the installation of the access port, as well as a list of measuring device options.

Sincerely,

David R. Tuthill Jr.

DAVID R. TUTHILL, JR.
Supervisor, Water Allocations Section

DRT:lr

Enclosures

cc: Mr. Blair Archibald
Federal Land Bank

INTER-DEPARTMENT MEMO — 1

FROM Jim Johnson

DATE April 20, 1979

TO File

SUBJECT Attempts to call Applicant

The number of acres identified on Item 8.b. had to be reduced in order to avoid overlap with previous water permits. See Remarks.

I discussed this change with Mr. Blair Archibald of the Federal Land Bank Association in Blackfoot who had been working closely with the Applicant. Mr. Archibald agreed fully with the changes.

From April 9, 1979, to April 20, 1979, I have made several unsuccessful attempts to contact Mr. Chambers. Since Mr. Archibald had requested this application be expedited, and I do not feel that further delay is warranted.

*the change will not reduce
the allocation per acre
when recognizing the previous
permits.*

Jim

SIGNATURE

ROUTING SLIP

DATE

4/9/79

TIME

TO:

LOIS

REF. No. (if any)

FROM: (show title)

JIM

FOR YOUR:

- ☐ Information
☐ Approval
☐ Signature

REVIEW AND:

- ☐ Call Me ☐ See Me
☐ Comment & Return
☐ Take Proper Action
☐ Draft a Reply for Me

PER:

- ☐ Our Conversation
☐ Your Request
☐ Boss's Request

Lois, Glen may
~~not~~ want to discuss
this condition, so
let him review it
before you ^{type} it on the
application

MICROFILMED

33-7065 expedite

Send Copy to Fed
Land Bank, Box 10,
Blackfoot.

C/o Blair Arch. ~~MICROFILMED~~

Jim:

I had a request
to expedite this one.
Also supposed to send
a copy to Fed. Land
Bank.

L

UNRECORDED

Total Acres Irrigated = 613 AC

Total allocation/yr

Previous Filings: 12,26 cfs

33-7009	8.0 cfs	} 458 AC
33-7025	1.16 cfs	
	<u>9.16 cfs</u>	

33-7044	3.10 cfs - 155 AC
---------	-------------------

12.26 cfs 613 AC

This Application APPEARS
to an over filing on described
land. -

On 4/9/79 I called Mr. Blair Archibald
about this filing. He informed me that
33-7044 had been amended changing the
P.D. No. Eastern Region has confirmed
this since the owner of 33-7044 has
already initiated the amending process I see
no reason why this application cannot be
approved at this time. Jim

4/9/79

33-7065

STAFF REVIEW - STATE OFFICE

1. ✓ Name vs. Signature
2. W Source
3. ✓ Point of Diversion
4. 3.1 Amnt. & Period of Use
5. ✓ Descrip. of Diverting Wrks.
6. 5 Time req. for Proof of B/U

7. N/A Place of Use for other than irrig.
8. 6/3 Place of Use for irrigation (add acres)
9. A Property Owner at ✓ Pt. of Div. & Pl. of Use
10. ✓ Map
11. 65 Fee & Rec't. No.

Copies Sent To:

NO Idaho Health Department
7 Idaho Fish & Game Dept.
 Bureau of Land Management

NO U.S.F.S.
7 Dept. of Lands
 Other

Dam Safety Information N/A (Goes to Permit Section)

Check:

Critical G.W. Area yes ✓ no

Other rights on same land 33-7025, 33-7009 - see Attached sheet

Withdrawals of all protests received N/A yes no

Conditions:

ID Power Co. Letter - Snake R. NO

ID Power Co. Letter - G.W. & Trlbs.

SNAKE River Condition

Payette River Letter

Priority Date 2/23/79

Water Quality #16 NO

Water Quality #10
 intrastate interstate

Meas. Dev. or Sc. Meas. Yes

Totalizing meter NO

Supplemental NO

Right-of-Way Cond. NO

Watermaster Cond. NO

Wtr. Dist No. 7

Meas. Dev. Cond. for apps with a Water Dist.

The maximum rate of diversion for lands identified in this permit if combined with Water Permit No. 33-7033 shall not exceed 3.1 cubic feet per second

Reviewer

Date

4/9/79

The maximum number of acres that can be irrigated under this permit are 155 acres located in the SE 1/4 section 20 T6N R30E
 #23 "Water Permit No. 33-7033" "3.1" add following for the

April 2, 1979

The Arco Advertiser
Box "C"
Arco, Idaho 83213

Gentlemen:

Re: Application for Permit No. 33-7065 - Chambers
" " " " No. 33-7066 - Owens

Please send affidavits of publication and certified bills in connection with the above referenced applications. The legal notices were to have been published on March 8 and 15, 1979.

Your cooperation in this matter is greatly appreciated.

Very truly yours,

RONALD D. CARLSON
Supervisor
Eastern Region

RDC:dh

APR 11 1979

Federal Land Bank Association of Blackfoot

10 West Judicial, P. O. Box 10, Blackfoot, Idaho 83221
Blair W. Archibald, Manager — Telephone: (208) 785-0820



Salmon Branch:
Main and North Daisy, P. O. Box 1063, Salmon, Idaho 83467
Richard S. Dunn, Branch Manager — Telephone: (208) 756-3278

RECEIVED

MAR 12 1979

Department of Water Resources
Eastern District Office

March 9, 1979

Robert R. Chambers
11439 Laurelrest Drive
Studio City, California 91604

Dear Mr. Chambers:

During our telephone conversation earlier this week you advised that you had filed your application for permit with the Department of Water Resources and had received your receipt. We have been watching the Arco Advertiser to see when it would be published, but there is nothing in the paper again this week.

We called Bill Rhodes at the Eastern Idaho Department of Water Resources Office in Idaho Falls this morning. He advised that the Stucki's had been in and filed an amendment to have their permit transferred to the BLM land they are attempting to purchase.

Mr. Rhodes indicated they had later telephoned and asked him to make a further amendment. However, he states that he cannot make this amendment without them calling again at the office to sign the necessary instruments.

We then contacted Mr. Breck Barton, attorney for the Stucki's and he graciously agreed to get in touch with the Stucki's and have them go to the water office and get this matter moving again. He also advised that the Stucki's had agreed to sign the new subordination form but wanted to get the water permit transfer completed first.

Mr. Chambers, we cannot continue to carry this loan indefinitely in an unpledged condition. Something must be done. With the executive ability you have we feel that you can get these matters off dead center and get something moving again. We need to have these requirements completed before March 31st. Will you please give these matters your immediate attention and keep in touch with us as to what progress is being made.

Yours truly,

Blair W. Archibald
Manager

cc: Breck Barton

The logo for Farm Credit Service, featuring a stylized "F" and "S" inside a circle with the words "FARM CREDIT SERVICE" around it.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Eastern Region

1515 Lincoln Road
Idaho Falls, ID 83401
(208) 523-7185

MARCH 2, 1979

Arco Advertiser
Box "C"
Arco, Idaho 83213

Gentlemen:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. We have allowed ample time for you to submit a galley proof to this office for review before the first publication date. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before MARCH 25, 1979.

Yours truly,

RONALD D. CARLSON
Supervisor

Encl.

MICROFILMED

PUBLIC NOTICE

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that the following applications have been submitted for permit to appropriate the public waters of the State of Idaho:

33-7065

CHAMBERS, ROBERT R.
11439 LAURELCREST
DRIVE, STUDIO CITY, CA 91604

Source: GROUNDWATER

Date Filed: 02-23-1979

Amount: 3.10 CFS

Diversion Point: NWSW Sec. 25 T
06N R 29E, BUTTE COUNTY

Use: IRRIGATION — (3.10 CFS)
from 04-01 to 11-01

Place of Use: NESE NWSE SESE
SWSE Sec 30 T 06N R 30E NESW
NWSW SWSW SESW NESE NWSE
SESE Sec 25 T 06N R 29E SWSE Sec
25 T 06N R 29E NESW Lot 03
(NWSW) LOT 04 (SWSW) SESW
Sec 30 T 06N R 30E FOR 613 ACRES
Diversion Means: WELL &
PUMP

NOTICE OF APPLICATION FOR WATER RIGHT

Notice is hereby given that the following application(s) have been submitted for permit to appropriate the public waters of the State of Idaho:

33-2065-

CHAMBERS, ROBERT R.

11439 LAURELCREST DRIVE, STUDIO CITY, CA 91604

Source: GROUNDWATER

Date Filed: 02/23/1979

Amount: 3.10 CFS

Diversion Point: NWSW Sec 25 T 06N R 29E, BUTTE Co.

Use: IRRIGATION (3.10 CFS) from 04/01 to 11/01

Place of Use: NESE NWSE SESE SWSE Sec 30 T 06N R 30E NESW NWSW SWSW SESW NESE
NWSE SESE Sec 25 T 06N R 29E SWSE Sec 25 T 06N R 29E NESW
LOT 03 (NWSW) LOT 04 (SWSW) SESW Sec 30 T 06N R 30E
FOR 613 ACRES

Diversion Means: WELL & PUMP

If issued, the permit(s) will be subject to all prior water rights. Protests against the granting of any permit must be filed with the Director of the Idaho Department of Water Resources, 1515 Lincoln Rd., Idaho Falls, Idaho 83401 on or before MARCH 26, 1979.

C. STEPHEN ALLRED

Director

Published 3/8 & 3/15/79.

MICROFILMED

February 23, 1979

Mr. Robert R. Chambers
11439 Laurelcrest Drive
Studio City, California 91604

Dear Mr. Chambers:

Re: Application for Permit

Attached herewith is Departmental receipt No. 12897 in the amount of \$65.00 for the above referenced application.

Very truly yours,

RONALD D. CARLSON
Supervisor
Eastern Region

RDC:dh

Attachment

2-18-79

Mr. Bill Rhoads
State of Idaho - Dept of Water Resources
1515 Lincoln Road
Idaho Falls, Idaho 83401

RECEIVED

FEB 23 1979

Department of Water Resources
Eastern District Office

Dear Bill

I enclose an application for permit
and a check for \$65.00. I hope everything
is in order. The reason I extended the use
period through November is that Mr. Stucki
feels wetting down the field helps in digging
the potatoes.

Please let me know if I can do anything
to assist you in processing the application.
Thanks very much for all your help.

Yours truly
R.D.

Robert R. Chambers
11439 Hamelcunt Dr.
Stucki City, CA 91604

Office phone 213-486-1732

RECEIVED

February 7, 1979

Mr. Robert R. Chambers (213) 486-1732
11439 Laurelcrest Drive
Studio City, California 91604

Dear Mr. Chambers:

As per your telephone request of this day, enclosed please find copies of License No. 33-7009 and License No. 33-7025. Also, as you requested, you will find an application for permit along with a "Water User's Handbook," which will aid you in the completion of this form. Should you need any assistance, please feel free to contact this office.

Sincerely,

DONNA HENRIQUES
Secretary

Encs.

January 11, 1979

Mr. Robert R. Chambers
11439 Laurelcrest Drive
Studio City, California 91604

Dear Robert:

At last a solution appears forthcoming. The following itemizes for you the water rights as they appear in the Department's records and an analysis of your best course of action.

License No. 33-7009 - 8.00 c.f.s. appurtenant to lands located within the S $\frac{1}{2}$, Sec. 25, T. 6N, R. 29E and the SW $\frac{1}{4}$, Sec. 30, T. 6N, R. 30E, B.M.

License No. 33-7025 - Same lands as described in License No. 33-7009. By combining these two licenses, 0.02 c.f.s. of water per acre is appurtenant to the lands.

These water right licenses belong to you. If you desire, the state office can forward a copy. Mr. Stucki's name will appear on the license documents, but there is no evidence of water retention by transfer of the waters itemized by these two licenses. The water in this case is controlled by the land owner.

Enclosed is a partially completed assignment for water permit No. 33-7044. This form must be completed by Mr. Stucki and returned to this office by February 15, 1979. Only if Mr. Stucki amends permit No. 33-7044 to new lands before the February date will this office consider any other course of action, except the assignment. If Mr. Stucki refuses to assign or amend the permit, then this office must, by law, cancel permit No. 33-7044. If that action becomes necessary, then you should file a new permit for the 160 acres in Section 30. Hopefully, this epistle completely satisfies your concern. It has been a pleasure serving you in this matter.

It's a beautiful, snowy day in Idaho.

BILL RHOADS

BR:dh
Enclosure

DEPARTMENT OF WATER RESOURCES
- STAFF ANALYSIS -

Item Initial Date

Application No. CHAMBERS, R.R.

☒ Source
☒ Point of Diversion
☒ County
☒ Quantity of Water and Period of Use
☒ Description of Diverting Works
☒ Time required for B/U of water
☒ Place of Use or Acres Irrigated
☒ Map
☒ Signature
☒ Fee

(1) RP 2/23/79

In form to receipt

(2) J

Send Copies to:

☐ Idaho State Health Department
☐ Idaho Fish and Game Department
☐ Bureau of Land Management

(3) J

☐ Request Special Use Permit from U.S.F.S.
☐ Request Easement from B.L.M.
☐ Request Information from Applicant
☐ Request Dam Safety Information

(4) RP 2/23/79

In form for advertising

(5) J

Platted on Map No. BASIN 6 N. R 29E

(6) J

Located within Water District No. BASIN 33

(7) J

Critical groundwater area: yes ☐ no ☒

(8) J

Groundwater levels:

☐ Declining, ☒ Stable, ☐ Increasing

(comment) _____

(9) RP 2/23/79

Other rights on the same place of use Lic 33-7025
33-7009

(10)

Comments: _____

(11) JH 4-4-79

Affidavit of Publication received(date) 4-4-79

(12) JH 4-4-79

Final date for protests MARCH 26, 1979

Protests received: yes ☐ no ☒

(13) EMC 4/4/79

All requested information received from agencies or applicant: yes ☒ no ☐

(14) EMC 4/4/79

Action recommended:

☒ Approve

2/23/79 Proposed Priority

☐ Reason for Reduction _____

☒ Measuring device required

☐ See attached sheet for other conditions of approval

☐ No special conditions for approval

(15) District Eastern

By Ernest Carlson

Date 4/4/79

RECEIVED
APR 06 1979

Department of Water Resources

MICROFILMED