

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 2-7157C

Exam Date: 10/3/2005

1. Current Owner: MUD FLAT CANAL CO
C/O JOHN TERRY FIELD
38167 STATE HWY 78
GRAND VIEW ID 83624-5039

2. Accompanied by: Terry Field

Phone No: (208) 834-2263

Address: SAME AS ABOVE

Relationship to Permit Holder: PRESENT OWNER OF LAND AND RIGHT

3. SOURCE

SNAKE RIVER

TRIBUTARY

COLUMBIA RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE
2. Other water rights with the same point of diversion: SEE ATTACHED LIST

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

SNAKE RIVER

L9 SE1/4SW1/4

Sec. 34, Twp 05S, Rge 04E, B.M.

OWYHEE County

Method of Determination: VISUAL INSPECTION AND AERIAL PHOTOGRAPHY.

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06S	03E	16	40.0	23.0	38.0	32.0	2.6			29.0	38.0			37.0	22.0	38.0	40.0	29.0	368.6

Total Acres: 368.6

Method of Determination: VISUAL INSPECTION AND AERIAL PHOTOGRAPHY.

3. YES Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

YES Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

YES Aerial Photo Attached (required for irrigation of 10+ acres).

YES Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
SNAKE RIVER (CJ STRIKE RESERVOIR) PUMP # 1	GENERAL ELECTRIC	250 Hp	KNJ1012016	VERTILINE	
SNAKE RIVER (CJ STRIKE RESERVOIR) PUMP # 2	GENERAL ELECTRIC	250 Hp	KNJ102015	VERTILINE	
RE-LIFT PUMP FROM BYBEE CANAL PUMP #1	GENERAL ELECTRIC	200 Hp	JMJ922109	VERTILINE	
RE-LIFT PUMP FROM BYBEE CANAL PUMP #2	GENERAL ELECTRIC	200 Hp	FMJ622101	VERTILINE	
RE-LIFT PUMP FROM BYBEE CANAL PUMP #3	GENERAL ELECTRIC	600 HP	SN# 5K623X03349A MDL # KNJ101202	VERTILINE	
RE-LIFT PUMP FOR MUD FLAT CANAL TO FIELD PUMP #1	GENERAL ELECTRIC	50 Hp	78165	UNKNOWN	
RE-LIFT PUMP FOR MUD FLAT CANAL TO FIELD PUMP #2	GENERAL ELECTRIC	50 Hp	78166	UNKNOWN	
RE-LIFT PUMP FOR MUD FLAT CANAL TO FIELD PUMP #3	GENERAL ELECTRIC	75 Hp	78167	UNKNOWN	
RE-LIFT PUMP FOR MUD FLAT CANAL TO FIELD PUMP #4	GENERAL ELECTRIC	100 Hp	78169	UNKNOWN	
RE-LIFT PUMP FOR MUD FLAT CANAL TO FIELD PUMP #5	GENERAL ELECTRIC	100 Hp	78170	UNKNOWN	

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

PLEASE NOTE: All of the pump information for Snake River Pumps and the pumps from the Bybee canal were attained from former field exams on Mud Flat Canal. The pump information of the owner's pumps from the Mud Flat canal were attained from the owners records. These pumps are no longer on site.

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
MANOMETER – 48 INCH	CONSTRUCTED	IDWR				
ANNUBAR	75	DIETRICH STO		091459	41.05 "	
EAGLE EYE METER	PROTABLE	DIETRICH STO	670	65806 S. ID 091469	0-13 "	4/27/83

2. Measurements: The Mud Flat Canal has not been in use since 1986 o0r 1987. All of the pumps for the owner and the canal company have been sold and removed. A measurement at the time of this exam was not possible. It is very unlikely that the canal will ever be put back into full operation. Therefore, I needed to use a measurement done by John Noyes on 4/24/1985. This measurement has been used for the licensing of all of the other permits on this canal. All of the lands associated with this canal were put into the CRP program within that next two years. The owner of this permit put his land into CRP the year after this measurement was made. Therefore, it safe to assume that the measurement made by Mr. Noyes was the maximum capacity ever diverted into the canal. With the system no longer in place, this was the last measurement of the system, and it should be suitable for licensing this permit.

E. FLOW CALCULATIONSYES Additional Computation Sheets Attached

Measured Method:

CANAL CAPACITY → 48.44 CFS

PERMIT LIMITATION → 12.80 CFS

PROOF OF BENEFICIAL USE FILING FEE LIMITATION → 7.40 CFS

FIELD PUMP CAPACITY → 9.87 CFS

INCH PER ACRE LIMITATION → 7.37 CFS (0.02 CFS x 368.6 ac)

PLEASE NOTE: This permit is limited by the by the inch (0.02 cfs) per acre limitation. Therefore, this permit should be licensed for 7.37. cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 368.6 \times 4.5 = 1658.7 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 7.37 \text{ cfs} \times 260 \times 1.9835 = 3800.8 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1658.7 \text{ afa}$$

2. Volume Calculations for Other Uses: **NONE**

G. NARRATIVE/REMARKS/COMMENTS

This permit was diverted through the Mud Flat Canal. The Mud Flat Canal ceased operation in 1986, and all of the pumps and power lines have been removed from the system. The owner's pumps and power lines have also been removed. Therefore, in order to perform the field exam on this permit, some assumptions were made. I also had to attain the pump information for the point of diversion and point of re-diversion from the Bybee canal from previous exams, since these pumps are no longer on site.

The water from this permit was diverted from C J Strike Reservoir on the Snake River in Lot 9, SESW S34 T5S R4E. The water from the river was diverted into the Bybee Canal by two 250 Hp pumps owned by the Mud Flat Canal Company. The water in the Bybee Canal flowed in a westerly direction for approximately 3 miles where the Mud Flat Canal water was diverted from the Bybee Canal by two 200 Hp pumps and one 600 Hp pump. The Mud Flat Canal flowed in a southern direction for approximately 3 miles and then turned west and flowed another 4 ½ miles to the owner's property.

The owner supplied an equipment bid from Layne of Idaho in Nampa, which he claims were the 5 pumps used on the permitted acres. The pump stations and diversion structures from the canal for these pumps are still in place, so I assume this information is correct. The owner stated that the water diverted by the pumps flowed through a mainline that bisected the property and went along the western edge of the property. While on site, I did see the location of one of the main lines that had recently been removed. This was the mainline that dissected the property on the north side of the canal.

There were several water rights that used the Mud Flat canal system. These rights are either no longer being used or are now being diverted directly from the Bybee Canal. John Noyes measured the Mud Flat Canal in 1985 with a diversion rate of 48.44 cfs. Whereas the owner placed his land into CRP in 1986, I am confident that the system had not been enhanced after Mr. Noyes measurement. According to the owner, the use of the canal ceased in 1986 or 1987.

When all of the Mud Flat canal water rights are combined, the total diversion rate from all rights is 73.98 cfs. Therefore, this permit should have a condition that limits the amount of water allowed to 48.44 cfs when all of these rights are combined. The priority date for this right is sufficient to allow to them to irrigate as they wished, when the regulation of the canal required all junior users above the 48.44 cfs to cease use of the canal water.

This right and several of the other rights from the Mud Flat Canal are currently enrolled in the water bank. These rights are being used for fish flushing and mitigation purposes. The combined conditions should be placed on all of the rights that were diverted from the Mud Flat canal to avoid enlargement issues when rented from the water bank. Hopefully, this will be done during the Snake River Basin Adjudication (SRBA) recommendations for these rights.

I cannot confirm or deny that this permit was ever fully developed. However, the CRP records do show that 368.6 irrigated acres were entered into the program in 1986. The owner does have records that show that pumps could have been purchased for this property. The 1987 aerial photography does show the outline of 368.6 acres. Even though the cost of putting this ground back into production would be cost prohibitive and is very unlikely, it does appear that the water right was put to beneficial use at one time. Therefore, I would recommend this permit for licensing for the amounts shown in this report with a condition that shows the combined limitations of the canal. I would recommend that the following conditions be incorporated into the license:

This right when combined with water rights 02-7059, 02-7060A, 02-7060B, 02-7061 02-7062, 02-10180, 02-10181, 02-7064, 02-7168A, 02-7168B, 02-7168C, 02-7237A, 02-7275, 02-7279A, 02-7279B, and 02-10012 is limited to 48.44 cfs.

Prior to this right back into use, the owner must design the new system to allow for proper measurement of the water being diverted.

This right must comply with the limits or restriction of the Swan Falls agreement that may apply to this water use.

Have conditions of permit approval been met? X Yes ____ No

PLEASE NOTE: The system was no longer operational, and the pumps and mainlines were no longer in place. Therefore it is impossible to determine if a suitable measurement port or suitable measurement point was available. However, I am assuming that the measurement port was available, since Mr. Noyes did attain a measurement for the canal in 1985.

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	7.370 CFS	1,658.70 AF
	<u>Totals:</u>	7.370 CFS	1,658.70 AF

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

I. AUTHENTICATION

DANIEL A. NELSON – SENIOR AGENT

Field Examiner's Name

Daniel A. Nelson

Date

10-17-05

Reviewer

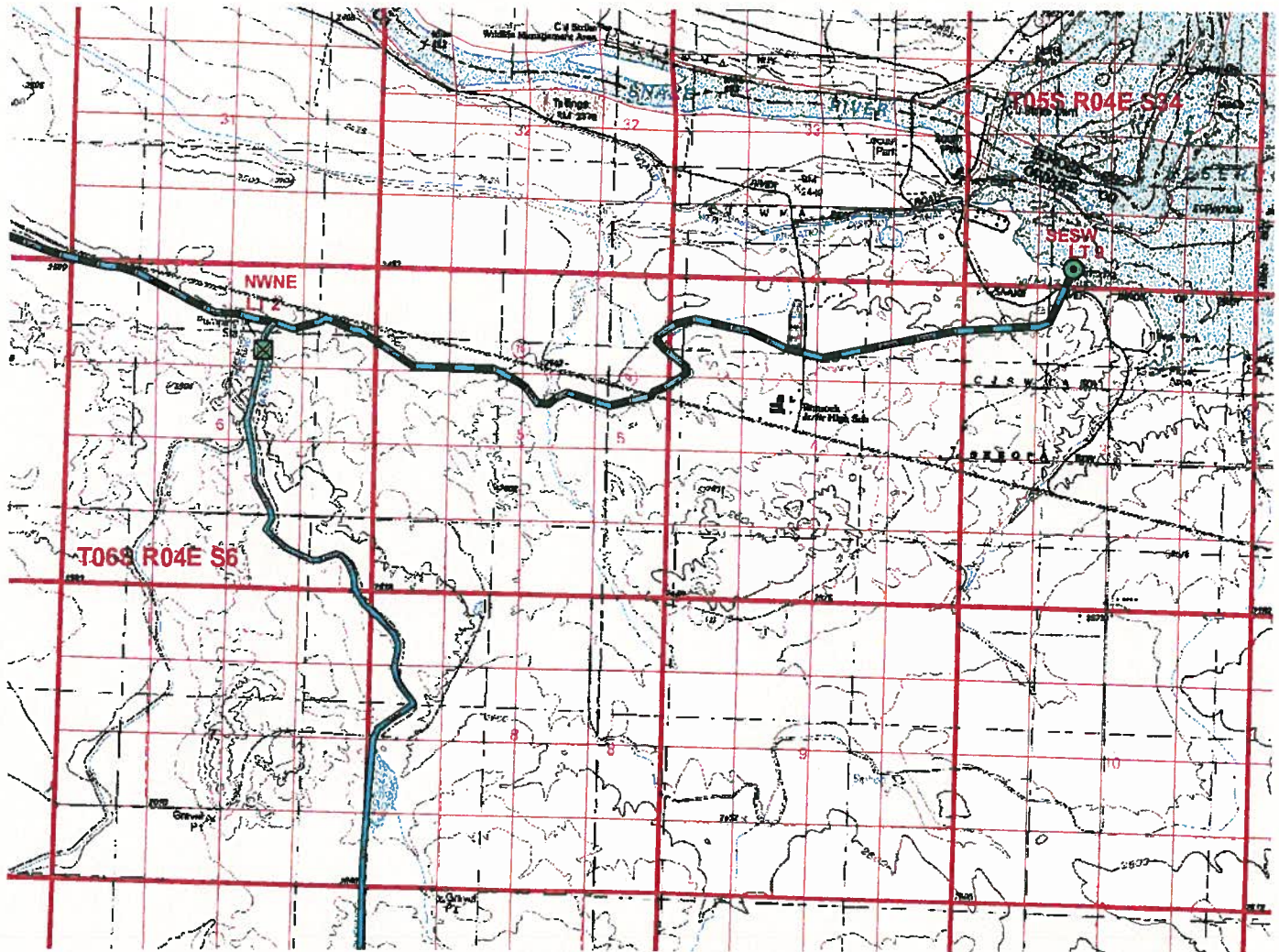
Date

SEAL

FIELD EXAM 02-7157C

POINT OF DIVERSION QUADRANGLE MAP

BY DAN NELSON



● POINT OF DIVERSION

▨ PLACE OF USE

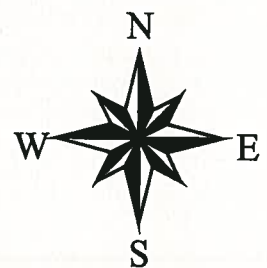
▣ RE-LIFT STATION FROM BYBEE CANAL TO THE MUD FLAT CANAL

≡ MUD FLAT CANAL

≡ BYBEE CANAL

▭ SECTION LINES

▭ 1/4 1/4 LINES

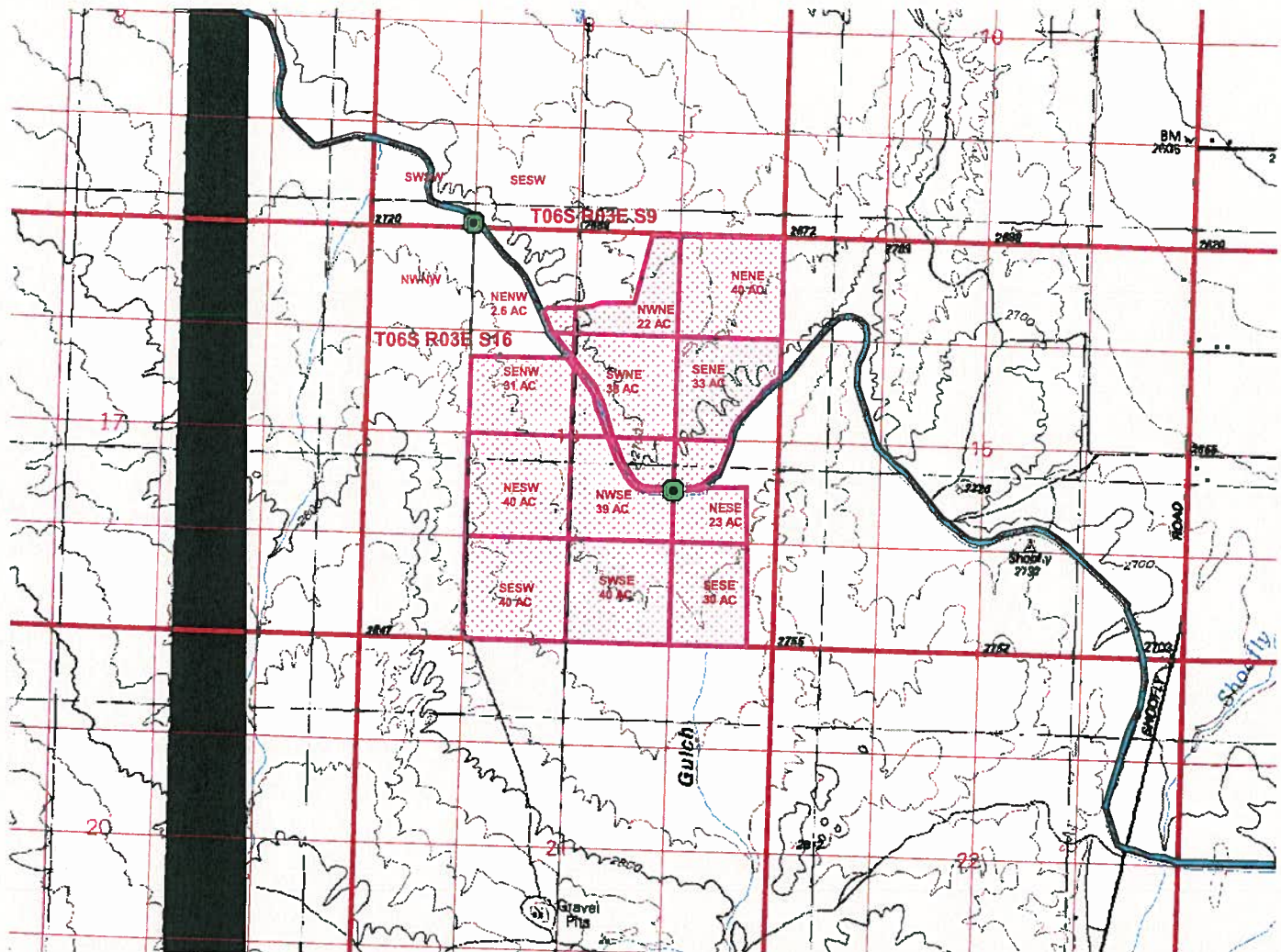


This is a quadrangle map of the point of diversion. The water was diverted from CJ Strike Reservoir on the Snake River into the Bybee Canal. The point of diversion was located in Lot 9, SESW S34 R4E. The water was then re-lifted out of the Bybee Canal into the Mudflat Canal in Lot 2, NWNE S6 T6S R4E. The Mud Flat Canal then delivered the water to the property.

FIELD EXAM 02-7157C

PLACE OF USE QUADRANGLE MAP

BY DAN NELSON



0.8 0 0.8 1.6 Miles

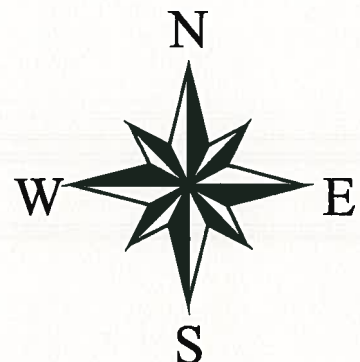
● RELIFT PUMPS FROM MUD FLAT CANAL

■ PLACE OF USE

— MUD FLAT CANAL

□ SECTION LINES

□ 1/4 1/4 LINES

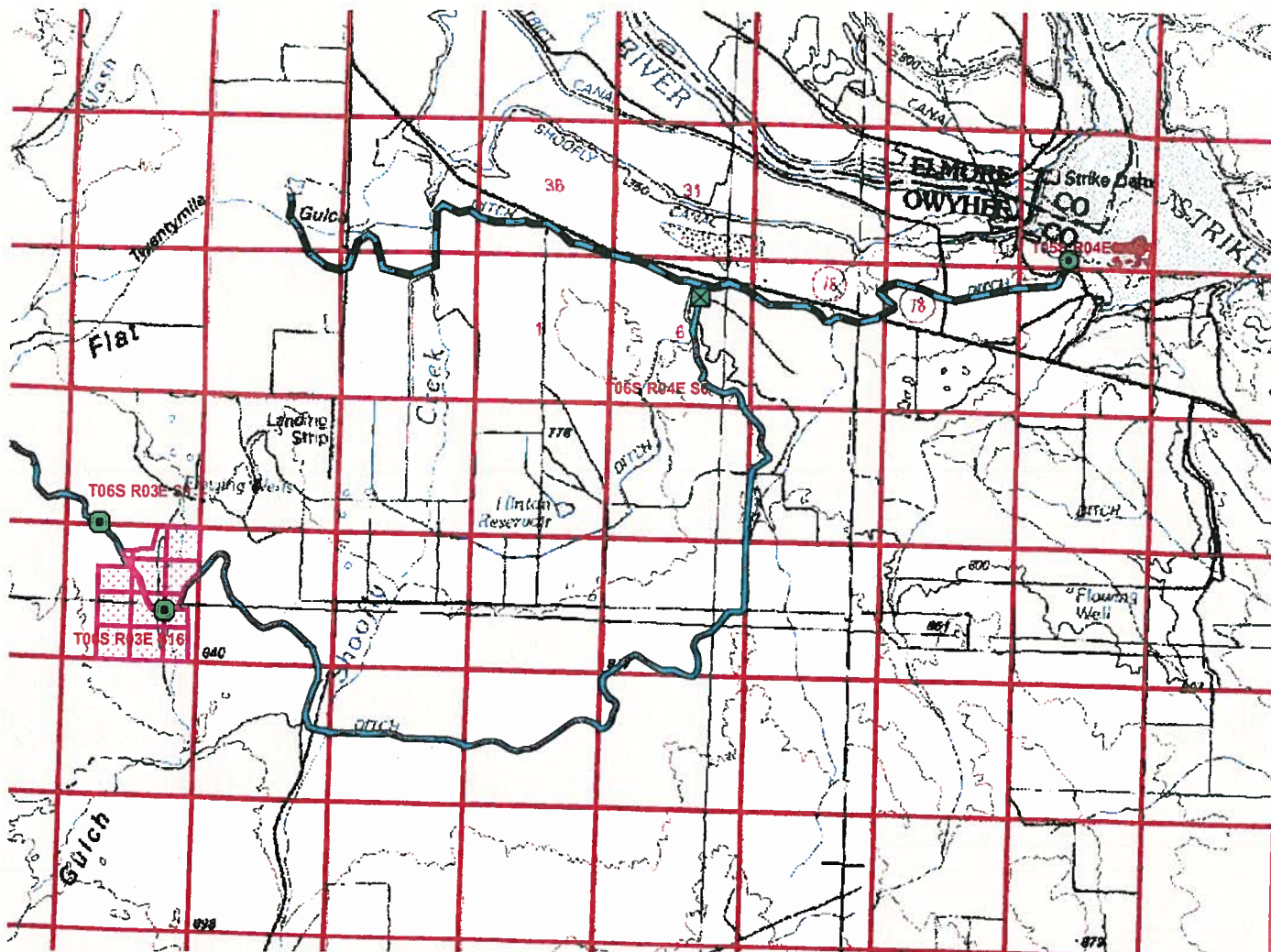


This is the quadrangle map of the place of use for this permit. The point of diversion quadrangle map is on a separate map due to the distance between the two.

FIELD EXAM 02-7157C

100 K QUADRANGLE MAP

BY DAN NELSON



2 0 2 4 Miles

● POINT OF DIVERSION

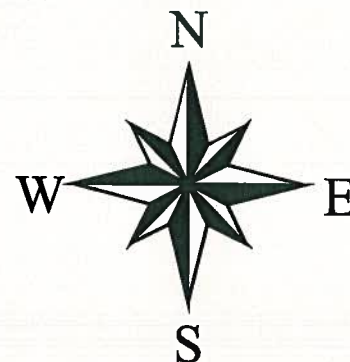
● RE-LIFT PUMPS FROM MUD FLAT CANAL

■ RE-LIFT STATION FROM BYBEE CANAL INTO MUD FLAT CANAL

— MUD FLAT CANAL

— BYBEE CANAL

□ SECTION LINES

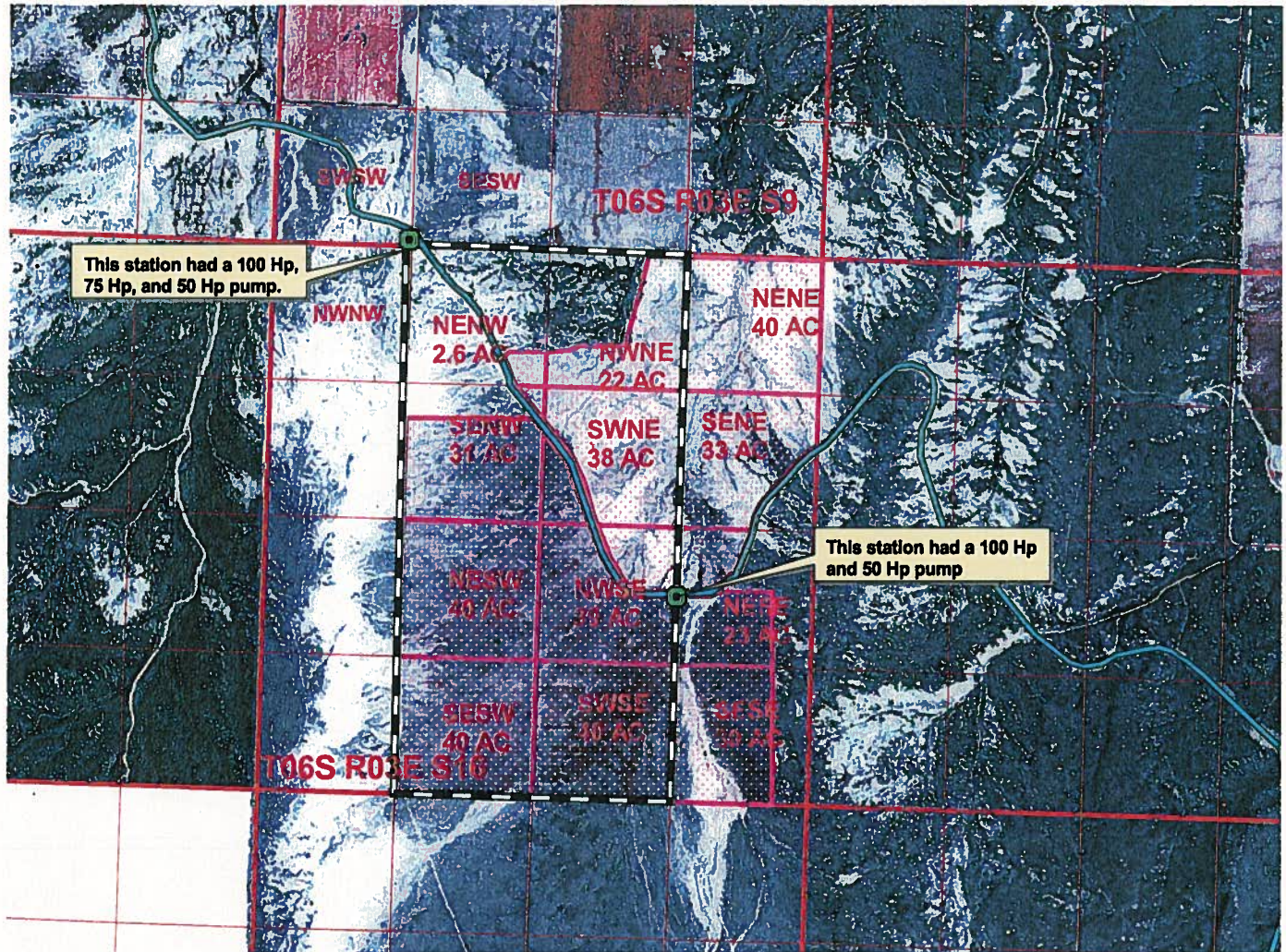


This map is a 100 K quadrangle map. It allows me to show the entire delivery system from C J Strike Reservoir on the Snake River. The water is diverted from the reservoir into the Bybee Canal, and then re-lifted into the Mud Flat Canal. The Mud Flat Canal delivers the water to the property where two re-lift stations delivers the water to the fields.

FIELD EXAM 02-7157C

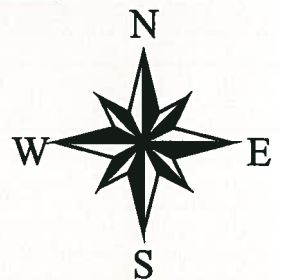
FIELD SYSTEM DIAGRAM

BY DAN NELSON



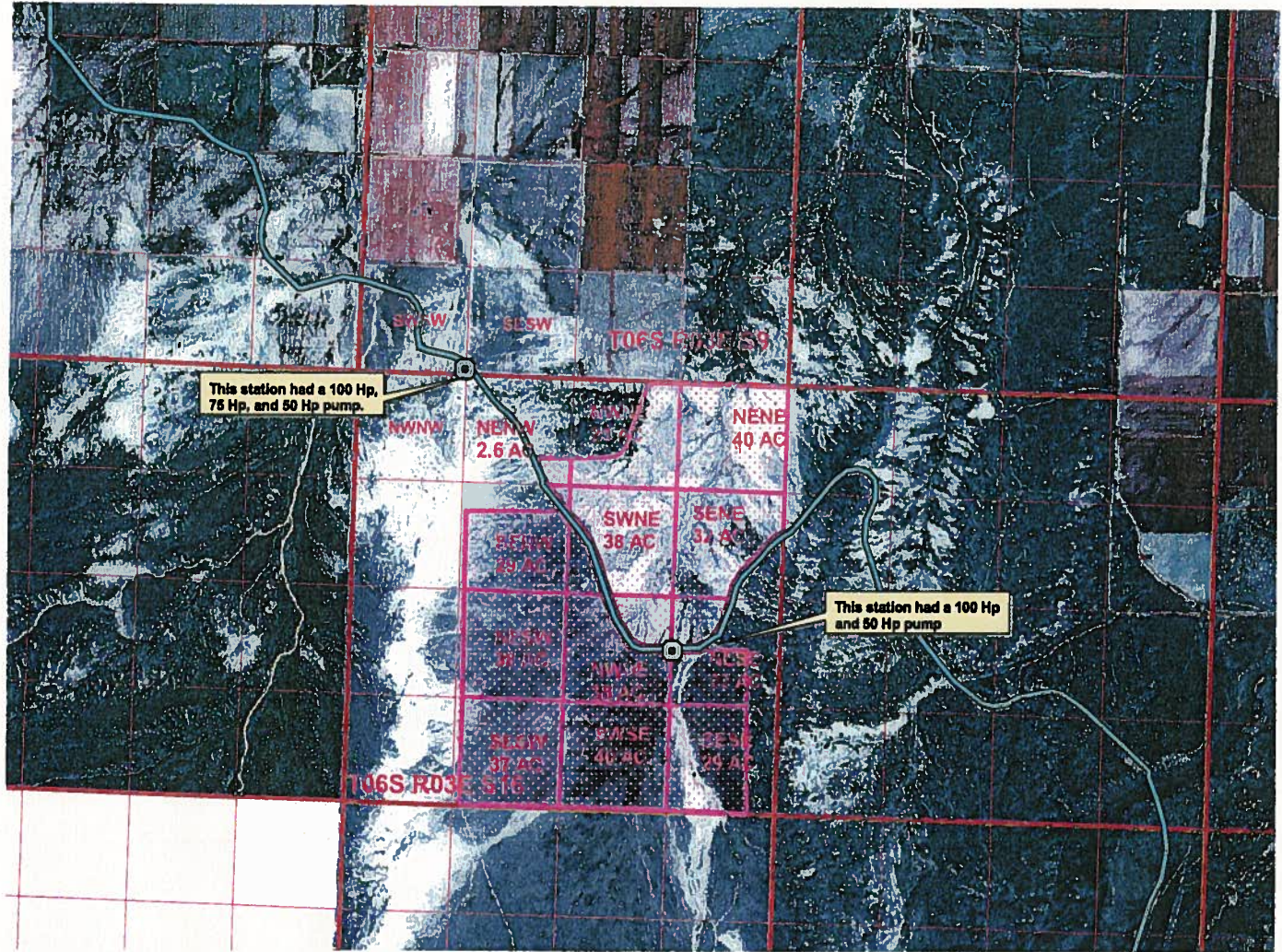
0.6 0 0.6 1.2 Miles

- ⊙ Re-lift from mud flat canal.shp
- ⊠ Mud flat relift station from bybee canal.shp
- ~ Mud flat canal.shp
- ~ Mainlines.shp
- ▨ Place of use.shp
- ▭ PLSS Section Lines
- ▭ T06s03e.shp



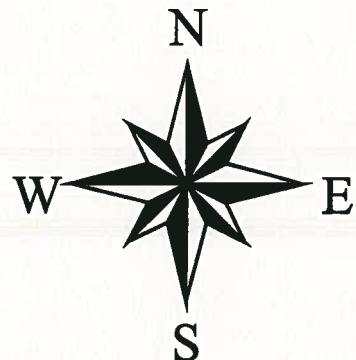
The water for this permit was delivered to the property through the Mud Flat Canal. The water was diverted from the canal into two faults or re-lift stations. The first re-lift station (east station) had a 100 Hp and 50 Hp pump. The second re-lift station (west station) had a 100 Hp, 75 Hp, and 50 Hp pump. These pumps were used to deliver the water to a common mainline, that fed several wheel lines. Most of the system has been removed, so this diagram is only an estimate of what was originally on the property.

FIELD EXAM 02-7157
PLACE OF USE
BY DAN NELSON



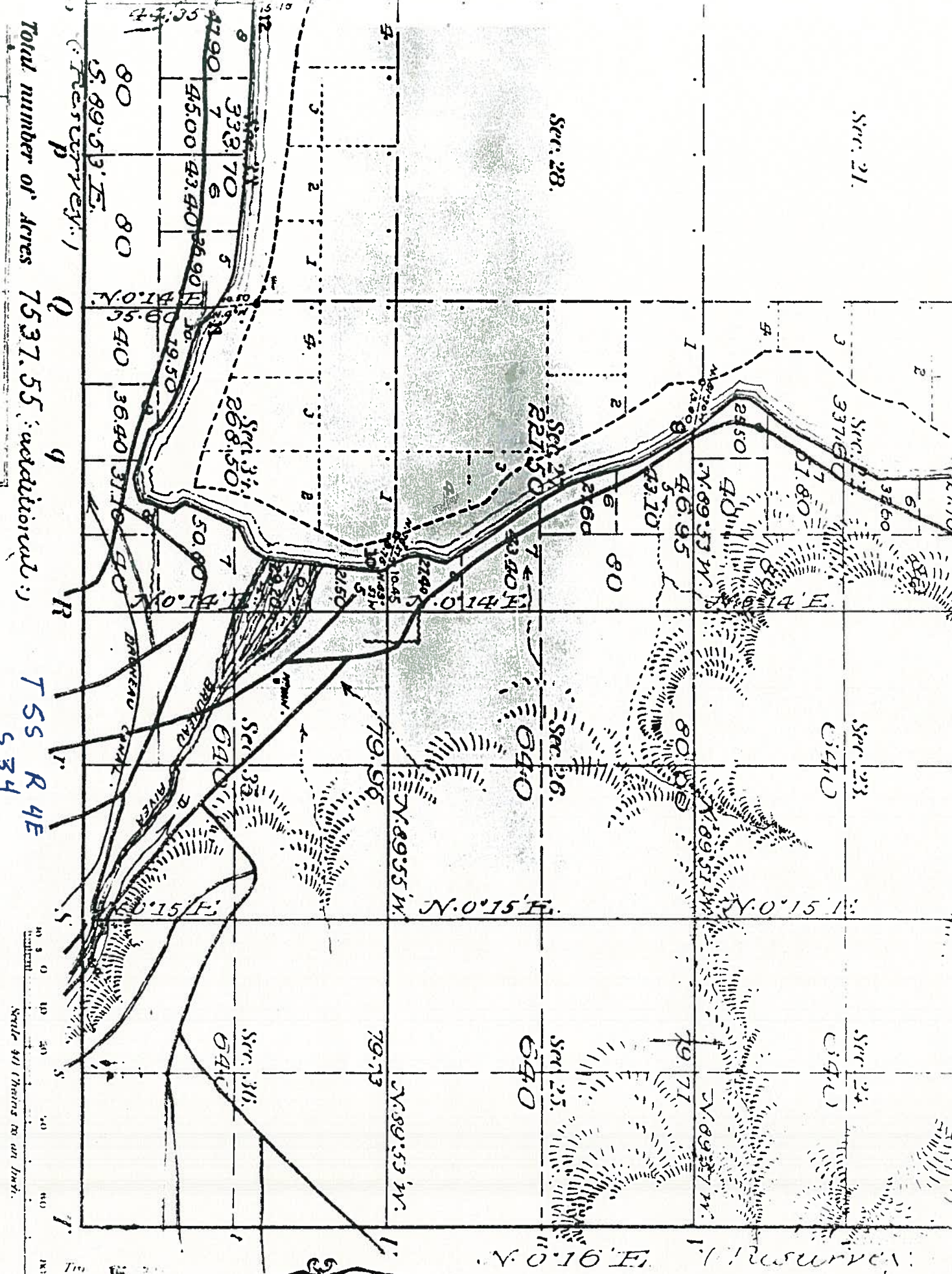
0.6 0 0.6 1.2 Miles

-  **RELIEF PUMPS FROM MUD FLAT CANAL**
-  **PLACE OF USE**
-  **MUD FLAT CANAL**
-  **SECTION LINES**
-  **1/4 1/4 LINES**



The total acres being irrigated are 368.6 acres.

Survey 14. When Surveyed Mean Declination. The above Method. Township. 10 S South of 40



Total number of Acres 7537.55 (additional);

T 55 R 4E S 34

Scale 40 Chains to an inch.

State of Idaho
DEPARTMENT OF WATER RESOURCES
SUPPLEMENTAL FIELD REPORT FOR MANOMETER MEASUREMENT

Measured by: JOHN K. NOYES Date 4/24/1985
Owner: MUD FLAT CANAL CO Permit No. ADJ CLM. 02-7059

Description of well &/or measuring site
- Include any clarifications of the sketch
- Include legal description if more than one p.d. is described in the Field Report

PUMPS #1 & 2 FROM SNAKE R. AT LT 9, SE SW, SEC 34, T05S, R04E. 42" STEEL PEN-
- STOCK HAVING APPROXIMATELY 60' LIFT INTO BYREE CANAL. RE-MEASUREMENT OF MAIN
PUMPS & RE-LIFT PUMPS FROM BYREE CANAL
NOT IN OPERATION AT TIME OF EXAM.

Measured inside diameter of pipe in inches 41.35"
MEASURED 42" PIPE. I.D. TAKEN FROM TABLE COMPILED FROM MANUFACTURERS' LITERATURE FOR WESTERN U.S. USED .250" WALL THICKNESS FOR 42" PIPE GIVEN OF 41.50" (A) 41.50"

Size of Annubar used in test 41.35" State ID No. 091459

Model No. of Annubar ~~Model~~ Used 75
(Model No. = 75 for 6" and larger)
(Model No. = 73 for 4")

Size ~~MANOMETER~~ Used 48" State ID No.

Date of Last Calibration of Meter N/A

Observed inches of H₂O read on ~~MANOMETER~~ MANOMETER

(B) Max. 23.3" - 12.7" = 10.6" Min. 23.6" - 12.9" = 10.7"
Ave. = 10.75"
(K) N/A

Flow Correction Factor (From Calibration Graph)
(Use 1 if Error is $\pm 2\%$ at observed pressure)

Select C based on Annubar Model No.

If Model No. = 75, then C = 3.85

If Model No. = 73, then C = 4.14

(C) 3.85
48.44 cfs measured

CALCULATION: $\frac{448.8}{A^2} (\sqrt{B}) C =$

$A^2 = (41.50)^2 = 1722.25, \sqrt{B} = \sqrt{10.75} = 3.279$ $C_{fs} = \frac{(1722.25)(3.279)(3.85)}{448.8} = 48.44 \text{ cfs}$ OK

SKETCH (If not shown on Field Report):

MICROFILMED

GROUNDWATER THEORETICAL ANNALYSIS

FILE: 02-7157C

DATE: 10/3/2005

BY: Daniel A. Nelson

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

TDH CALCULATIONS:

The Mud Flat Canal system has not been used since 1986. Therefore, all of the pumps and power lines have been removed. Therefore, it was difficult to ascertain the TDH. I estimated that the owner would need at 65 psi to ensure pressure for his sprinklers. The owner told me he used several wheel lines on the system, so 65 psi sounds reasonable to ensure and maintain a solid pressure on the entire system. This ground is comprised of rolling hills, and there is an 80 ft elevation difference between the pump and the end of the mainline. Therefore, I determined that 100 psi would be needed to maintain pressure across the system [(80 ft / 2.31) + 65 = 100 total psi needed to run sprinklers]. The pumps would need to lift the water approximately 3 feet from the pumping faults to the mainline. The total dynamic head was calculated as follows :

$$\underline{TDH = 3 \text{ ft lift} + (100 \text{ psi} \times 2.31) = 234 \text{ ft total dynamic lift.}}$$

The TDH would be the same for each pump, since they were all pumping into a common mainline.

THERE ARE 5 PUMPS ON THIS SYSTEM WITH THE SAME TDH. THE FOLLOWING ARE THE THEORETICAL CALCULATIONS FOR EACH PUMP:

PUMP #1 → 50 Hp pump (serial number 78165)

$$Q = \frac{(8.8) \times (50 \text{ Hp}) \times (0.70)}{234 \text{ TDH}} = 1.32 \text{ cfs (593 gpm)}$$

234 TDH

Page 2

Theoretical analysis 02-2137C

PUMP #2 → 50 Hp pump (serial number 78166)

$$Q = \frac{(8.8) \times (50 \text{ Hp}) \times (0.70)}{234 \text{ TDH}} = \underline{1.32 \text{ cfs (593 gpm)}}$$

PUMP #3 → 75 Hp pump (serial number 78167)

$$Q = \frac{(8.8) \times (75 \text{ Hp}) \times (0.70)}{234 \text{ TDH}} = \underline{1.97 \text{ cfs (884 gpm)}}$$

PUMP #4 → 100 Hp pump (serial number 78169)

$$Q = \frac{(8.8) \times (100 \text{ Hp}) \times (0.70)}{234 \text{ TDH}} = \underline{2.63 \text{ cfs (1180 gpm)}}$$

PUMP #5 → 100 Hp pump (serial number 78170)

$$Q = \frac{(8.8) \times (100 \text{ Hp}) \times (0.70)}{234 \text{ TDH}} = \underline{2.63 \text{ cfs (1180 gpm)}}$$

TOTAL COMBINED DIVERSION:

1.32 + 1.32 + 1.97 + 2.63 + 2.63 = 9.87 CFS TOTAL CAPACITY OF THE SYSTEM

REMARKS: This system has not been use since 1986, when the ground was put into the CRP program. All of the pumps and power lines have been removed from the site and it doesn't appear as though this system will ever be brought back on line. New pumps and power lines will need to be purchased and installed for this ground. This calculation is the best that can be calculated at this time. I have no idea if these were the actual pumps or if the pumps were all operated at the same time. All of this information came from owner's records.



P.O. Box 1005

Nampa, Idaho 83651

208-466-7376

EQUIPMENT BID

RE; Terry Fields
Mud Flats Project
FHA Pumps

2	50 HP	GE Motors	
2	Pumps	ser. #'s 78165 & 78166	
2	Ampco	440 Volt Panels	\$1660.00
1	75 HP	GE Motor	
1	Pump	ser. # 78167	
1	Ampco	440 Volt Panel	1280.00
2	100 HP	GE Motors	
2	Pumps	ser. #'s 78169 & 78170	
2	Ampco	440 Volt Panels	<u>2640.00</u>
Total			\$5580.00

This bid includes all valves and flanges. This offer is for equipment as is and were it is.


Norman D. Webb
Manager

Jerry Field Section 14

SEE ATTACHED LIST

- 1 100 HP GE Motor #LNJ1109358 with WES Line Pump
- 1 75 HP GE Motor #LNJ803379 with WES Line Pump
- 1 50 HP GE Motor #LN51109315 with WES Line Pump
- 1 100 HP GE Motor #LNJ928389 with WES Pump
- 1 50 HP GE Motor #LNJ100533 with WES Line Pump

40 - 3" Hand Lines - 1320' feet long with pressure regulations and center risers

AC Panels, Fittings, End Plugs, Thrust Blocks Etc.

- 2060 Feet - 6" x 125 PSI PVC Main line (Buried)
- 3160 feet - 8" x 125 PSI PVC Main Line (Buried)
- 3060 feet - 10" x 125 PSI PVC Main Line " "
- 1260 feet - 12" x 125 PSI PVC Main Line " "
- 1320 feet - 16" x 125 PSI PVC Main Line " "

Including risers and couplers

POINT OF DIVERSION OVERLAP FOR T5S R4E S34

Basin	Sequence	Suffix	Basis	Canal	Priority Date	Rate(cfs)	Volume(af)	Source	Water Use(s)	Source Table
2	71		Beneficial Use	Bybee	7/1/1964	0.5		SNAKE RIVER	IRRIGATION	MEAKER, HOLLY (Current); MEAKER, REG (Current)
2	2152		License	Private Diversion	10/26/1959	0.96	240.5	SNAKE RIVER	IRRIGATION	TRIANGLE DAIRY INC (Current)
2	2153		License	Private Diversion	10/26/1959	1.55	347.9	SNAKE RIVER		TATE, WILLIAM D (Current)
2	2154		License	Private Diversion	10/26/1959	2.76	691	SNAKE RIVER	IRRIGATION	TATE, BARBARA (Current)
2	2209	D	License	Private Diversion	2/25/1963	12.16	2035.2	SNAKE RIVER	IRRIGATION	J R SIMPLOT SELF DECLARATION REVOCABLE TRUST (Current)
2	2242		License	Bybee	11/18/1963	6.38	1595	SNAKE RIVER	IRRIGATION	GINGRICH, CLINTON W (Current)
2	2243		License	Bybee	11/18/1963	5.84	1460	SNAKE RIVER	IRRIGATION	GINGRICH, LEON W (Current)
2	2275		License	Bybee	2/12/1964	4.38	1095	SNAKE RIVER	IRRIGATION	LAYTON, PATRICIA G (Current); LAYTON, SAMUEL A (Current)
2	2279		License	Bybee	2/28/1964	6.18	1050	SNAKE RIVER	IRRIGATION	JOHNSON, KEITH A (Current)
2	2288		License	Bybee	5/4/1964	5.8	1450	SNAKE RIVER	IRRIGATION	POST, LESLIE J (Current)
2	2308		License	Private Diversion	5/20/1964	23	6760	SNAKE RIVER	IRRIGATION	TRIANGLE DAIRY INC (Current)
2	2380		License	Bybee	11/9/1965	0.1	25	SNAKE RIVER	IRRIGATION	CHURCH OF JESUS CHRIST OF THE LATTER DAY SAINTS (Current)
2	2418		License	Bybee	2/8/1964	5.78	1770	SNAKE RIVER	IRRIGATION	JOHNSON, LEONA K (Current)
2	2423		License	Private Diversion	2/24/1964	1.86	465	SNAKE RIVER	IRRIGATION	TRIANGLE DAIRY INC (Current)
2	2424		License	Private Diversion	6/28/1960	4.16	1040	SNAKE RIVER	IRRIGATION	TATE, WILLIAM D (Current)
2	4014		Statutory Claim	Bybee	6/1/1964	1.5		SNAKE RIVER	IRRIGATION	NANNEY, HELEN M (Current)
2	4026		Statutory Claim	Bybee	6/1/1967	0.8		SNAKE RIVER	IRRIGATION	LEMON, WILLIAM H (Current)
2	7012		License	Bybee	3/4/1968	1	250	SNAKE RIVER	IRRIGATION	LEMON, MILDRED (Current); LEMON, WILLIAM H (Current)

Basin	Sequence	Suffix	Basis	Canal	Priority Date	Rate(cfs)	Volume(af)	Source	Water Use(s)	Source Table
2	7059		License	Mud Flat	4/9/1970	6.4	1600	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7060	A	License	Mud Flat	4/9/1970	5.6	1120	SNAKE RIVER	IRRIGATION	DIRKS, ROBERT G (Current)
2	7060	B	License	Mud Flat	4/9/1970	0.8	160	SNAKE RIVER	IRRIGATION	J R SIMPLOT SELF DECLARATION REVOCABLE TRUST (Current)
2	7061		License	Mud Flat	4/9/1970	6.32	1580	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7062		License	Mud Flat	4/9/1970	4.1	1025	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7064		License	Mud Flat	4/23/1970	6.36	1590	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7103		License	Private Diversion	10/24/1972	6.2	1550	SNAKE RIVER	IRRIGATION	CONNECTICUT GENERAL LIFE INSURANCE CO (Current)
2	7104		License	Private Diversion	10/24/1972	5.92	1480	SNAKE RIVER	IRRIGATION	CONNECTICUT GENERAL LIFE INSURANCE CO (Current)
2	7126		License	Bybee	8/15/1973	3.68	920	SNAKE RIVER	IRRIGATION	NANNEY, HELEN M (Current)
2	7154		License	Private Diversion	7/23/1974	9.6	2187	SNAKE RIVER	IRRIGATION	TRIANGLE DAIRY INC (Current)
2	7157	C		Mud Flat	5/24/1974	12.8		SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7168	A	License	Mud Flat	8/30/1974	3.08	770	SNAKE RIVER	IRRIGATION	AGENBROAD, DARREL L (Current)
2	7168	C	License	Mud Flat	8/30/1974	2.7	675	SNAKE RIVER	IRRIGATION	GRANDVIEW FAMILY LIMITED PARTNERSHIP (Current)
2	7168	B	License	Mud Flat	8/30/1974	3.82	859.5	SNAKE RIVER	IRRIGATION	AGENBROAD, DARREL L (Current)
2	7206		License	Private Diversion	10/30/1975	0.76	190	SNAKE RIVER	IRRIGATION	TRIANGLE DAIRY INC (Current)
2	7237	A	License	Mud Flat	12/23/1976	5.9	1475	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7242	C	License	Bybee	2/10/1977	3.35		SNAKE RIVER	IRRIGATION	LEE, MAURICE D (Current); LEE, SONYA E (Current)
2	7242	B	License	Bybee	2/10/1977	0.32	80	SNAKE RIVER	IRRIGATION	ASLETT, GARTH (Current)
2	7242	D	License	Bybee	2/10/1977	2.42	605	SNAKE RIVER	IRRIGATION	LEE, MAURICE D (Current); LEE, SONYA E (Current)

Basin	Sequence	Suffix	Basis	Canal	Priority Date	Rate(cfs)	Volume(af)	Source	Water Use(s)	Source Table
2	7275		License	Mud Flat	12/13/1978	2.26	565	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7279	A	License	Mud Flat	2/8/1979	3.82	859.5	SNAKE RIVER	IRRIGATION	AGENBROAD, DARREL L (Current)
2	7279	B	License	Mud Flat	2/8/1979	3.82	859.5	SNAKE RIVER	IRRIGATION	AGENBROAD, DARREL L (Current)
2	7344		License	Bybee	5/6/1981	2.86		SNAKE RIVER	IRRIGATION	MEAKER, HOLLY (Current); MEAKER, REG (Current)
2	7389		License	Bybee	1/25/1972	1.6	400	SNAKE RIVER	IRRIGATION	SILVER SAGE RANCH INC (Current)
2	10012		Beneficial Use	Mud Flat	5/1/1979	0.6		SNAKE RIVER	IRRIGATION	GOOD, JEFF (Current); GOOD, NATE (Current)
2	10180		License	Mud Flat	4/9/1970	2.4	480	SNAKE RIVER	IRRIGATION	DIRKS, MECHELLE (Current); DIRKS, ROBERT G (Current)
2	10181		License	Mud Flat	4/9/1970	3.2	640	SNAKE RIVER	IRRIGATION	SMITH, CONNIE (Current); SMITH, ROBERT (Current)
2	10187		License	Private Diversion	2/25/1963	12.16	2035.2	SNAKE RIVER	IRRIGATION	J R SIMPLOT SELF DECLARATION REVOCABLE TRUST (Current)
2	10198		License	Private Diversion	7/23/1974	7.59	1726	SNAKE RIVER	IRRIGATION	UNRUH, CATHERINE W (Current); UNRUH, DAVID C (Current)
2	10201		License	Private Diversion	7/23/1974	0.83	189	SNAKE RIVER	IRRIGATION	TRIANGLE DAIRY INC (Current)
2	10202		License	Private Diversion	7/23/1974	1.18	270	SNAKE RIVER	IRRIGATION	J R SIMPLOT SELF DECLARATION REVOCABLE TRUST (Current)

MUD FLAT CANAL WATER RIGHTS

Basin	Sequence	Suffix	Basis	Canal	Priority Date	Rate(cfs)	Volume/ (af)	Source	Water Use(s)	Source Table
2	7059		License	Mud Flat	4/9/1970	6.4	1600	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7060	A	License	Mud Flat	4/9/1970	5.6	1120	SNAKE RIVER	IRRIGATION	DIRKS, ROBERT G (Current)
2	7060	B	License	Mud Flat	4/9/1970	0.8	160	SNAKE RIVER	IRRIGATION	J R SIMPLOT SELF DECLARATION REVOCABLE TRUST (Current)
2	7061		License	Mud Flat	4/9/1970	6.32	1580	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7062		License	Mud Flat	4/9/1970	4.1	1025	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	10180		License	Mud Flat	4/9/1970	2.4	480	SNAKE RIVER	IRRIGATION	DIRKS, MECHELLE (Current); DIRKS, ROBERT G (Current)
2	10181		License	Mud Flat	4/9/1970	3.2	640	SNAKE RIVER	IRRIGATION	SMITH, CONNIE (Current); SMITH, ROBERT (Current)
2	7064		License	Mud Flat	4/23/1970	6.36	1590	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7157	C		Mud Flat	5/24/1974	12.8		SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7168	A	License	Mud Flat	8/30/1974	3.08	770	SNAKE RIVER	IRRIGATION	AGENBROAD, DARREL L (Current)
2	7168	C	License	Mud Flat	8/30/1974	2.7	675	SNAKE RIVER	IRRIGATION	GRANDVIEW FAMILY LIMITED PARTNERSHIP (Current)
2	7168	B	License	Mud Flat	8/30/1974	3.82	859.5	SNAKE RIVER	IRRIGATION	AGENBROAD, DARREL L (Current)
2	7237	A	License	Mud Flat	12/23/1976	5.9	1475	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7275		License	Mud Flat	12/13/1978	2.26	565	SNAKE RIVER	IRRIGATION	MUD FLAT CANAL CO (Current)
2	7279	A	License	Mud Flat	2/8/1979	3.82	859.5	SNAKE RIVER	IRRIGATION	AGENBROAD, DARREL L (Current)
2	7279	B	License	Mud Flat	2/8/1979	3.82	859.5	SNAKE RIVER	IRRIGATION	AGENBROAD, DARREL L (Current)
2	10012		Beneficial Use	Mud Flat	5/1/1979	0.6		SNAKE RIVER	IRRIGATION	GOOD, JEFF (Current); GOOD, NATE (Current)

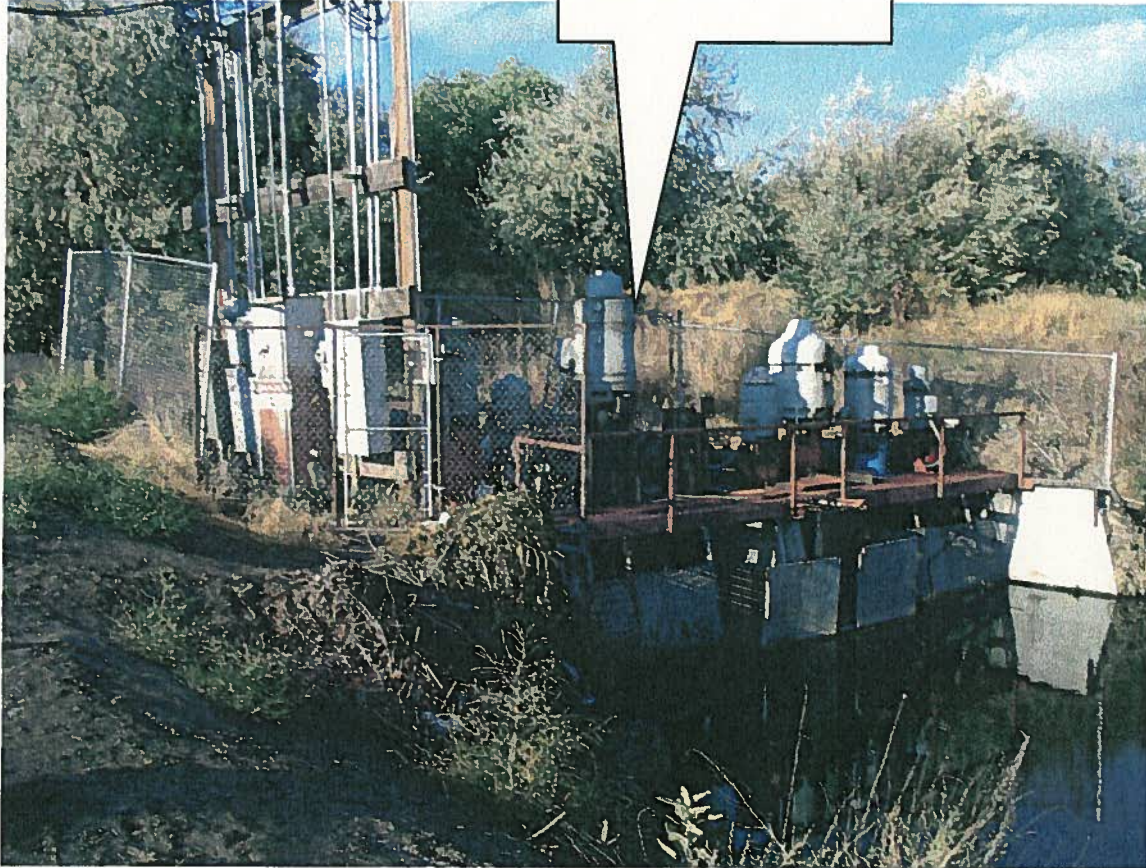
TOTAL DIVERSION RATE ==> 73.98

**TOTAL DIVERSION RATE WITH
A PRIORITY EARLIER THAN
PERMIT 02-7157C ==>** 35.18

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/3/2005

FILE NUMBER 02-7157C

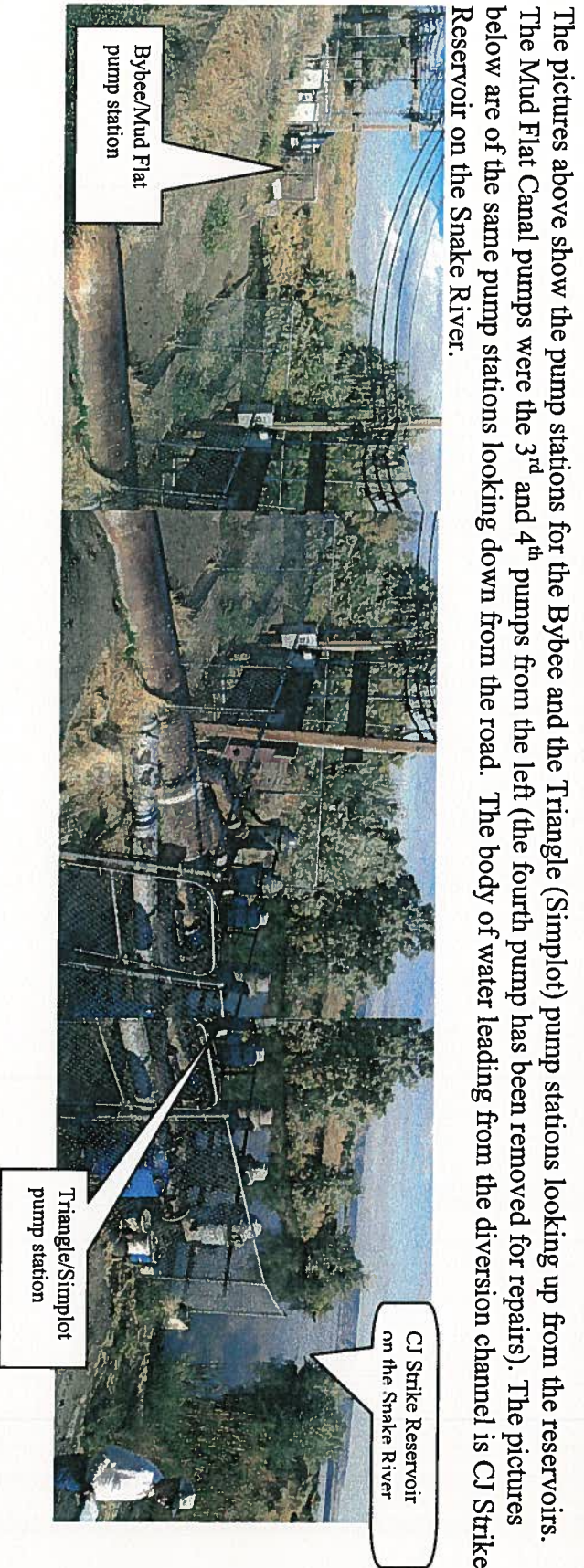
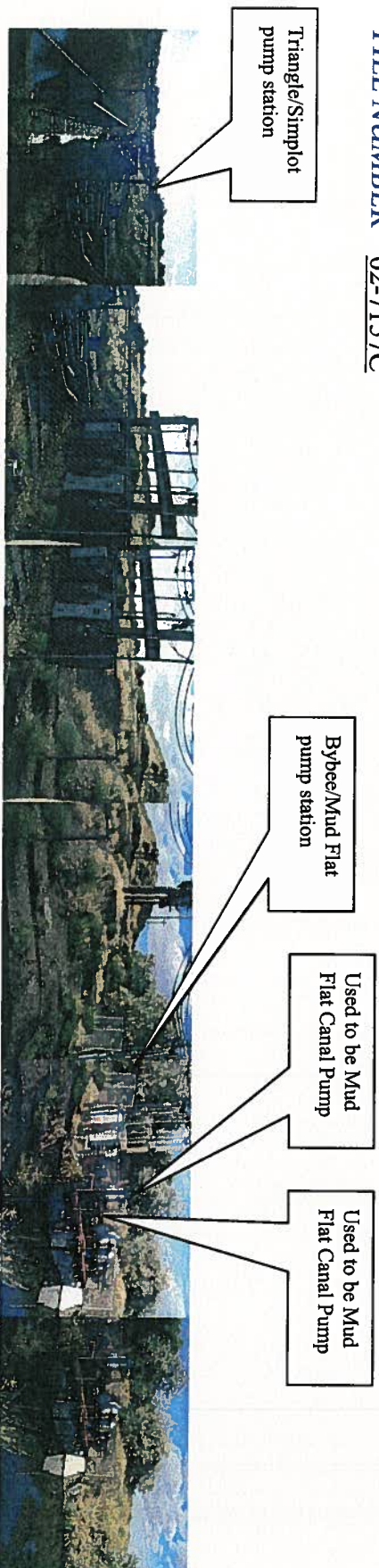
The third and fourth pump station were used by Mud Flat Canal company.



The above picture is a close up of the Bybee Pumping Station from CJ Strike Reservoir on the Snake River. The 3rd and 4th pumps from the left were the pumps used for Mud Flat Canal Company. Other individuals are now using these stations. The pump on the 4th station has been pulled to be worked on, but you can still see the pump base for this station.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/3/2005

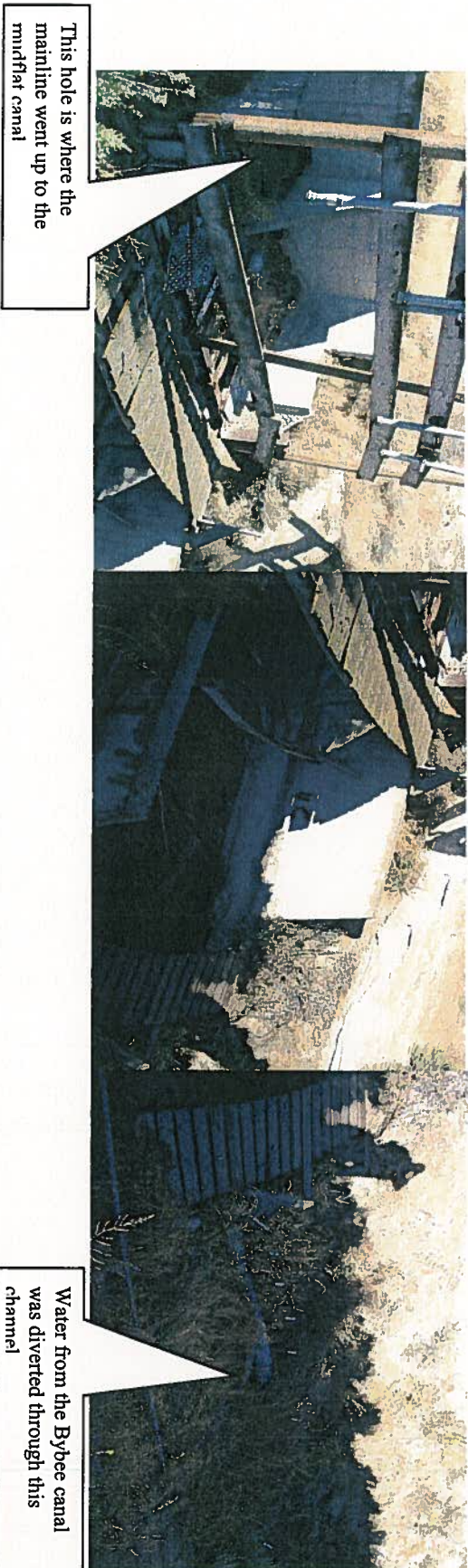
FILE NUMBER 02-7157C



The pictures above show the pump stations for the Bybee and the Triangle (Simplot) pump stations looking up from the reservoirs. The Mud Flat Canal pumps were the 3rd and 4th pumps from the left (the fourth pump has been removed for repairs). The pictures below are of the same pump stations looking down from the road. The body of water leading from the diversion channel is CJ Strike Reservoir on the Snake River.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/3/2005

FILE NUMBER 02-7157C



This hole is where the mainline went up to the mudflat canal

Water from the Bybee canal was diverted through this channel

These photos are of the re-lift station where water from the Bybee Canal is re-lifted into the Mud Flat Canal. As you can see from the photos, this system has not been used for many years. The last known year it was used was 1985.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/3/2005

FILE NUMBER 02-7157C

THESE ARE PHOTOS OF THE NORTH WEST POINT WHERE WATER IS TAKEN FROM THE MUD FLAT CANAL, AND DELIVERED TO THE OWNER'S PROPERTY. AS YOU CAN TELL FROM THE PHOTOS, THIS SYSTEM HAS ALSO NOT BEEN USED IN A VERY LONG TIME.



This is photo of the re-diversion vault where water was pumped out to the mainlines.



This is a photo of the actual diversion from Mud Flat Canal



This is a photo of the mainlines that pumps in the vault used to deliver the water to the fields.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/3/2005

FILE NUMBER 02-7157C

THESE ARE PHOTOS OF THE SOUTH EAST POINT WHERE WATER IS TAKEN FROM THE MUD FLAT CANAL, AND DELIVERED TO THE OWNER'S PROPERTY. AS YOU CAN TELL FROM THE PHOTOS, THIS SYSTEM HAS ALSO NOT BEEN USED IN A VERY LONG TIME.



This is photo was taken looking south across Mud Flat Canal. The mainline running north across the canal is shown in the picture. The mainline is sitting on the headgate from Mud Flat Canal to the pumping vault.



This is a photo of the of pumping vault for this diversion



This is a photo of the remnants of the mainline that travel south through the fields.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 10/3/2005

FILE NUMBER 02-7157C



These are pictures of the place of use. The three pictures above show the south fields and the pictures below show the north fields. You can see the lines where these fields were broken out of sagebrush at one time, but they haven't been worked or irrigated in a very long time

Idaho Department of Water Resources



- Point of Diversion
- Place of Use
- Section Lines
- Quarter Quarter Lines

Claim Number: 02-07157C
Legal: T05S, R04E, S34 &
T06S, R03E, S16
Reviewed By: JLD 5/10/05

05/11/2005

IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 2-7157C

NAME AND ADDRESS: JOHN TERRY FIELD
38167 STATE HIGHWAY 78
GRAND VIEW ID 83624-5039

LESLIE A FIELD
38167 STATE HIGHWAY 78
GRAND VIEW ID 83624-5039

SOURCE: SNAKE RIVER

TRIBUTARY: COLUMBIA RIVER

QUANTITY: 12.800 CFS

PRIORITY DATE: 05/24/1974

POINT OF DIVERSION:

T05S R04E S34 SWSESW Lot 9 Within OWYHEE County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	04/01 10/15	12.800 CFS

PLACE OF USE: IRRIGATION Within OWYHEE County

T06S R03E S16	NENE	40.0	T06S R03E S16	NWNE	40.0
T06S R03E S16	SWNE	40.0	T06S R03E S16	SENE	40.0
T06S R03E S16	NENW	40.0	T06S R03E S16	NWNW	40.0
T06S R03E S16	SWNW	40.0	T06S R03E S16	SENW	40.0
T06S R03E S16	NESW	40.0	T06S R03E S16	NWSW	40.0
T06S R03E S16	SWSW	40.0	T06S R03E S16	SESW	40.0
T06S R03E S16	NESE	40.0	T06S R03E S16	NWSE	40.0
T06S R03E S16	SWSE	40.0	T06S R03E S16	SESE	40.0

640 ACRES TOTAL

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

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.

This right is conditioned upon completion of the appropriation in accordance with the statutory procedure for appropriation of water rights. This right remains subject to all conditions set forth in the permit upon which this right is based, and will be subject to all conditions set forth in the license issued by IDWR upon completion of the statutory appropriation process.

EXPLANATORY MATERIAL: Permit

DECLASSIFIED

Spokane, Wash.
6.4 cfs / 200 acres
See File No. 00-7157 A

Spokane, Wash.
6.4 cfs / 200 acres
See File No. 00-7157 B

Terry Field
12.5 cfs / 400 acres
See File No. 00-7157 C

Identification No. 02-7157 C

Application No. _____

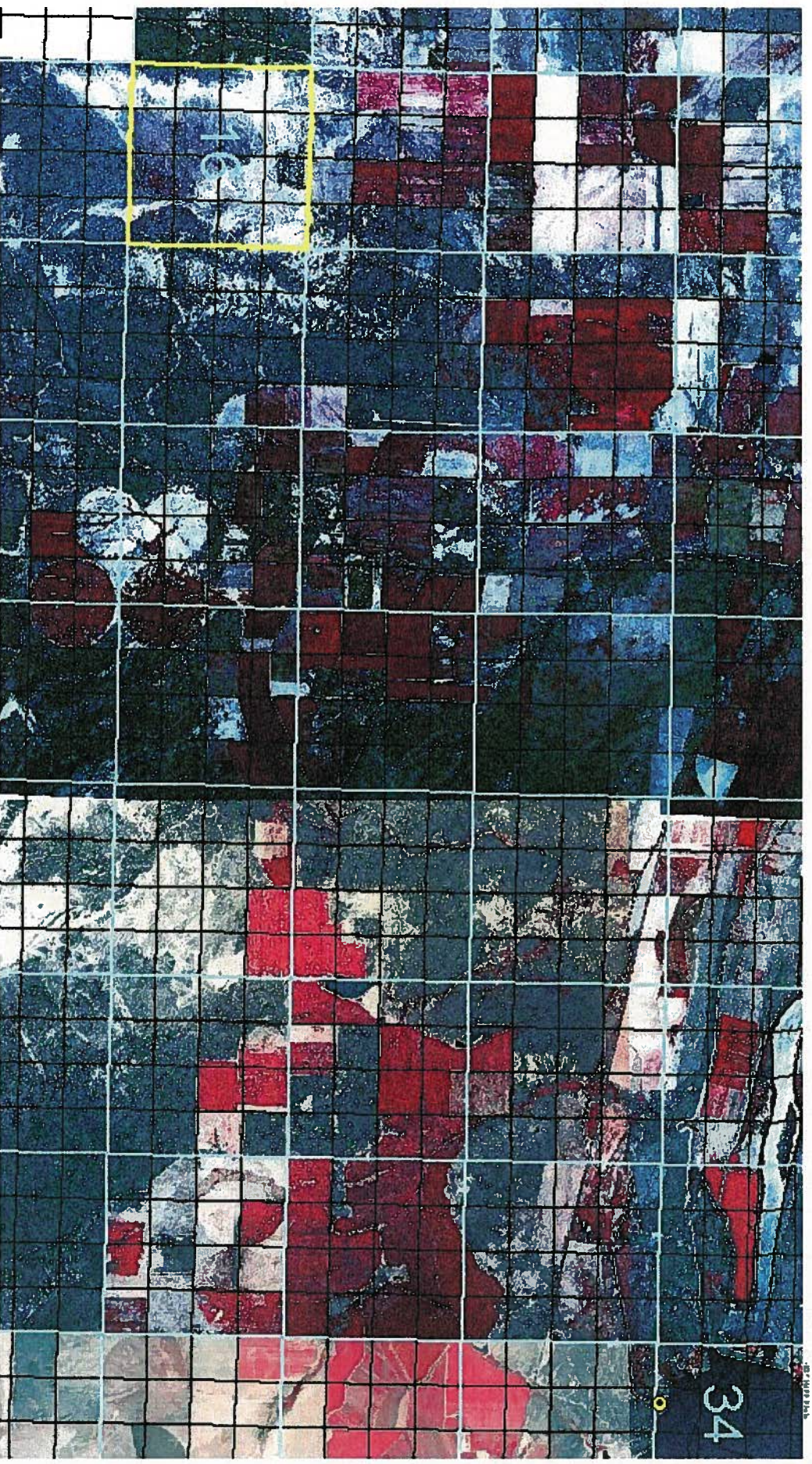
STATE OF IDAHO
DEPARTMENT OF WATER ADMINISTRATION

APPLICATION FOR PERMIT **APPROVED**

To Appropriates the Public Waters of the State of Idaho
(TYPE OR PRINT IN INK.)

- 1 Name of applicant Twenty Mile Flat Water Company
and office address Box 204 A, Grand View, ID 83624
- 2 Source of water supply Snake River which is a tributary of Columbia
- 3 a. Location of point of diversion is Lot 9 1/4 of _____ 1/4 of Section 14 Township 5S
Range 4E 8M Owyhee County, additional points of diversion if any _____
b. If water is not consumed, it will be discharged into _____ at a point on _____
of _____ 1/4 of Section _____ Township _____ Range _____ 8M.
- 4 Water will be used for the following purposes:
Approximate ~~10000~~ 10000 acre feet per annum for purpose from April 1 to Oct. 15 (both dates inclusive)
Approximate _____ for _____ purpose from _____ to _____ (both dates inclusive)
Approximate _____ for _____ purpose from _____ to _____ (both dates inclusive)
- 5 Total quantity to be appropriated:
a. 12.5 ~~10000~~ 12.5 cubic feet per second and/or
b. _____ acre feet per annum
- 6 Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. 2,000 hp river pumping plant -
Penstock Canal - Relift pumps - canal, regulating pond relift
pumps and canal
b. Height of storage dam _____ feet, active reservoir capacity _____ acre feet; total reservoir
capacity _____ acre feet, materials used in storage dam: _____
Period of year during which storage will occur _____ to _____ inclusive.
c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.
- 7 a. Time required for the completion of the works and application of the water to the proposed beneficial use
is 5 years.
b. Estimated construction cost is \$2,118,000.
- 8 Description of proposed uses:
a. If water is not for irrigation:
(1) Give the place of use of water _____ 1/4 of _____ 1/4 of Section _____ Township _____
Range _____ 8M.
(2) Amount of power to be generated: _____ hp 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: _____

Idaho Department of Water Resources

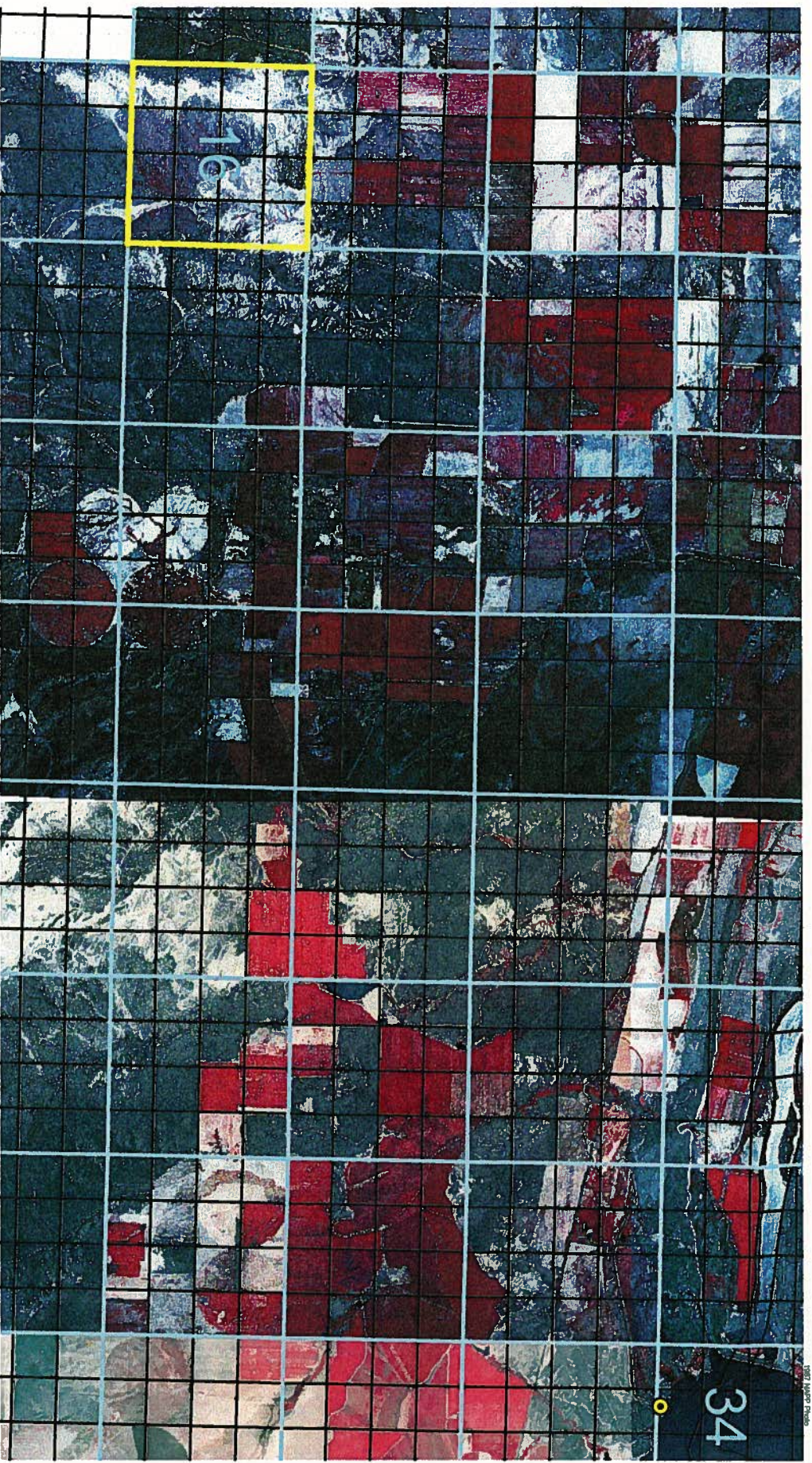


Claim Number: 02-07157C
Legal: T05S, R04E, S34 &
T06S, R03E, S16
Reviewed By: JLD 5/10/05

- Point of Diversion
- Place of Use
- Section Lines
- Quarter Quarter Lines



Idaho Department of Water Resources



Claim Number: 02-07157C
Legal: T05S, R04E, S34 &
T06S, R03E, S16
Reviewed By: JLD 5/10/05

- Point of Diversion
- Place of Use
- Section Lines
- Quarter Quarter Lines



IDWR - WESTERN REGION

CONTRACTOR: Karan Waters

CLAIM/ID: 02-07157C Date: 7-18-02

	TNS	RNG	SEC	NE				NW				SW				SE				Sum
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
Claim	65	3E	16	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
GIS				41	41	41	41	41	41	41	41	40	40	40	40	41	41	41	41	652
Claim																				
GIS																				
Claim																				
GIS																				
Claim																				
GIS																				
Claim																				
GIS																				

Number of POD's 1

Total Claimed Acres: 640

Overlapping POU Claim #'s:

Total GIS Acres: 652

COMMENTS:

No county data available. No claim map. Per irrigated acreage.

1987 Napp Photo

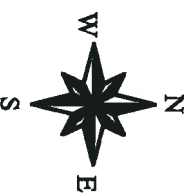
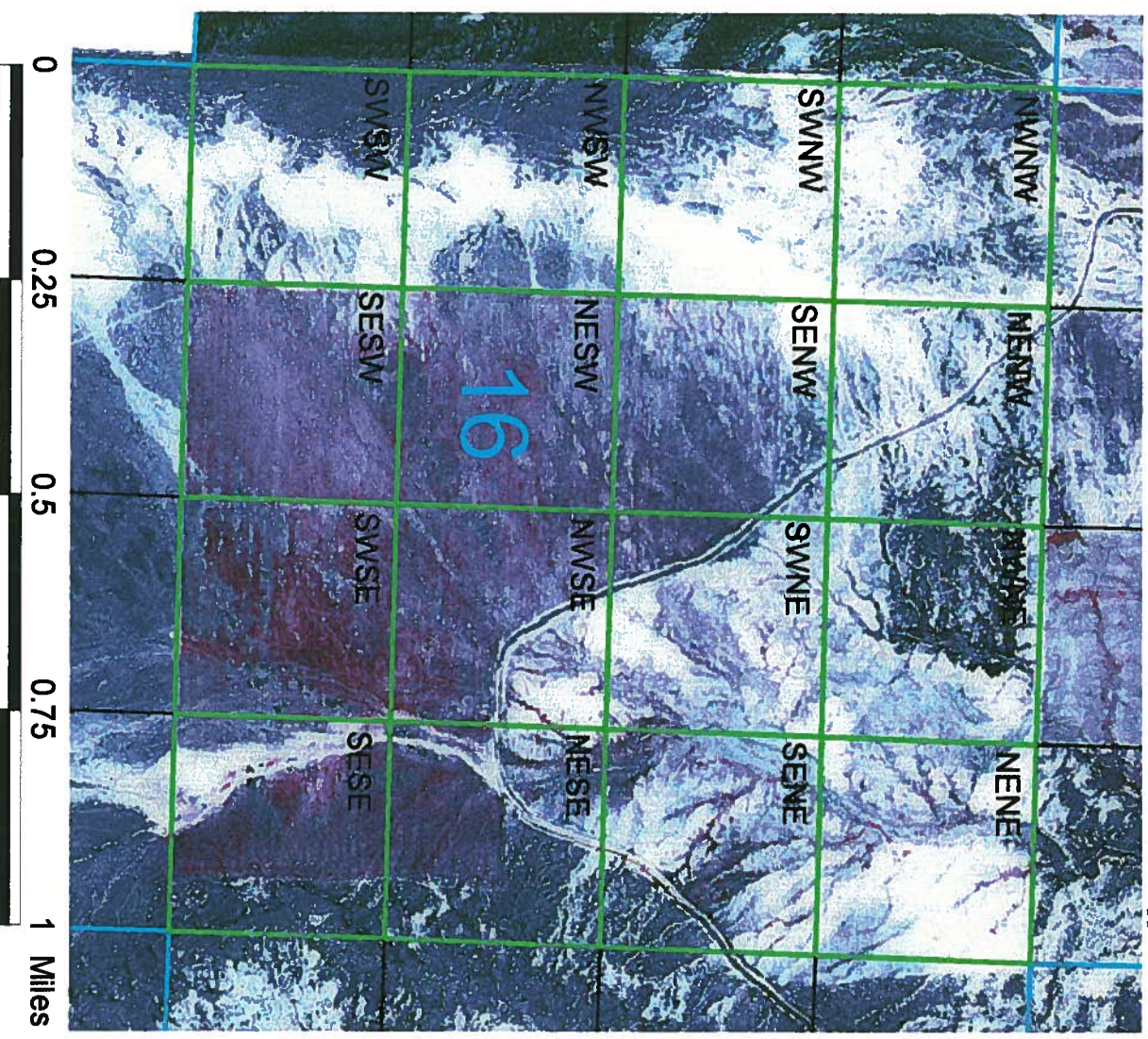
Reviewed By:



1833

1853

□



Idaho Department of Water Resources

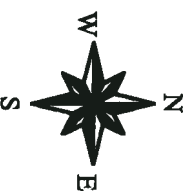
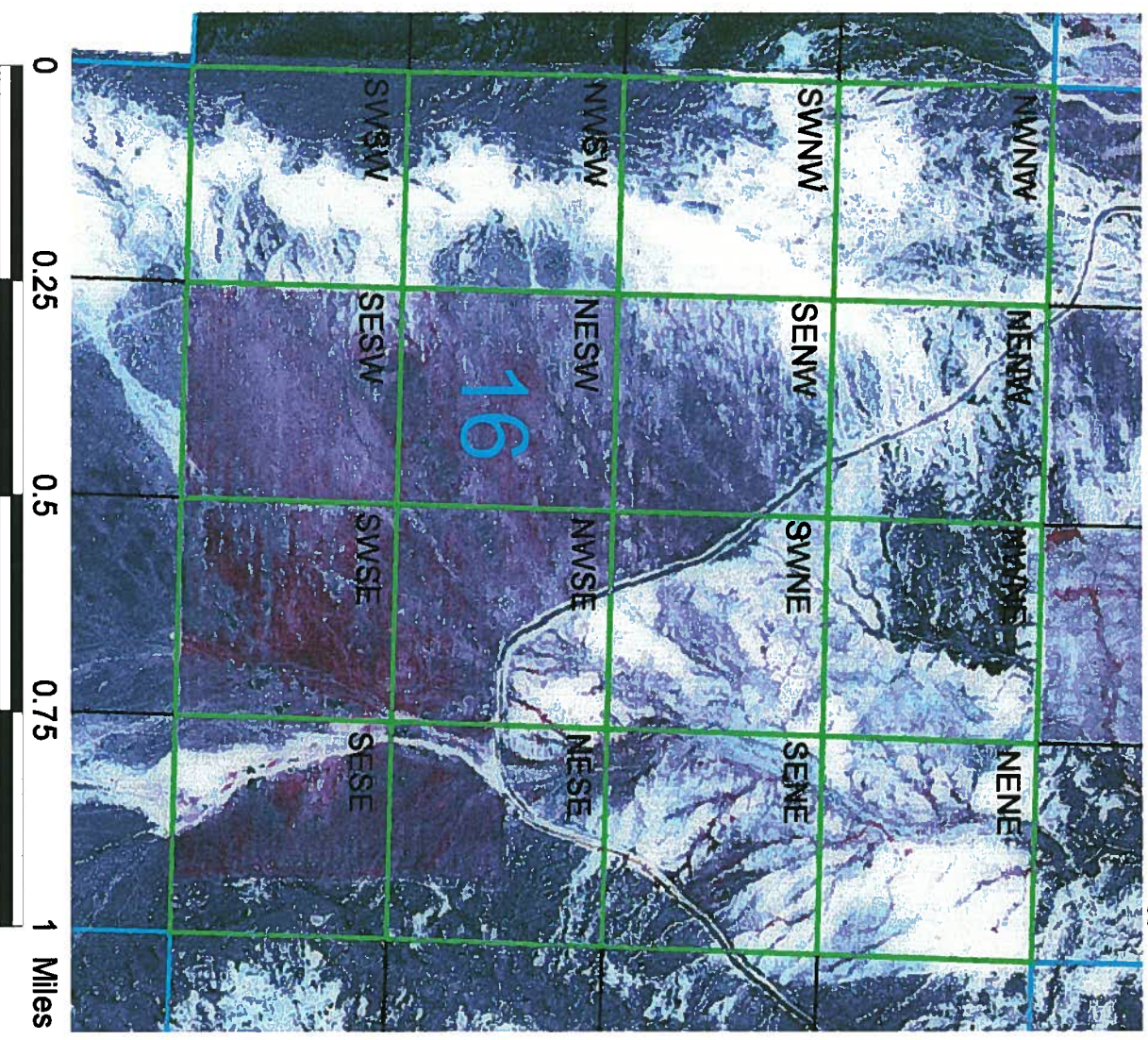
Claim Number: 02-07157C

Legal: T06S, R03E, S16

Reviewed By:

-  Point of Diversion
(located outside view)
-  Place of Use
-  Section Lines
-  Quarter Quarter Lines

1987 Naapp Photo



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: A02-07157C
Date Received: 1-16-89
Receipt No: W2304
Received By: W

RECEIVED
FEB 21 1989

Department of Water Resources
Western Regional Office

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: JOHN TERRY FIELD
Address: HC 85, BOX 332
GRANDVIEW, ID 208-834-2263
OR 83624
Name: LESLIE FIELD
Address: HC 85, BOX 332
GRANDVIEW, ID 208-834-2263
83624

2. Date of Priority: MAY 24, 1974

3. Source: SNAKE RIVER

Trib. to: COLUMBIA RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
05S	04E	34	NW	SW		10	OWYHEE

5. Description of diverting works:
PUMP & CANALS.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	10/15	12.800		

7. Total Quantity Appropriated is:
12.800 C.F.S. (and/or)

A.F.A.

8. Total consumptive use is

Acre Feet Per Annum.

9. Non-irrigation uses:

A02-07157C

Page

1

Date: 02/09/89

MICROFILMED

AUG 07 1992

10. Place of Use:

Township	Range	Section	1/4	of	1/4	Lot	Use	Acres
06S	03E	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
			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

Total Acres 640.0

11. Place of use in counties: OWYHEE

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
NONE

14. Remarks:

REINSTATED 11-25-1987.

CLAIMANT STATES PQD HAS ALWAYS BEEN LOT 10.

See A02-02176A for map.

15. Basis of Claim: PERMIT

*Of the 640 acres only
370 are developed
and that is what
acres we are apply
to license, so we
have paid on the
370 acres.*

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 Individuals:

I/We do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant(s): *John Mayfield* Date: 2-16-89
Linda R. Smused Date: 2-16-89

State of Idaho)
County of *Campana*) SS.

Subscribed and sworn (or affirmed) before me this 16 day
of Feb 19 89

Linda R. Smused
Notary Public

Seal

Residing at *Mt Horn Id*
My Commission Expires 4-18-94