

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-7882A

Exam Date: 4/9/2014

(see narrative)

1. Current Owner: Verbree Land Holdings LLC
PO Box 30
Wendell, ID 83355
2. Accompanied by: see narrative
Phone No:
Address:
Relationship to Permit Holder:

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: 36-2452B & 36-10108 (well in Section 34);
36-2205, 36-2452A, 36-7788A (well in Section 26)

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	SW1/4SW1/4	Sec. 26,	Twp 06S,	Rge 21E, B.M.
LINCOLN County				
GROUND WATER	NE1/4NE1/4	Sec. 34,	Twp 06S,	Rge 21E, B.M.
LINCOLN County				

Method of Determination: Existing spatial data/WMIS points in IDWR GIS database

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
06S	21E	26					40.0	40.0											80.0
06S	21E	27	40.0	40.0		40.0													120.0

Total Acres: 200

Method of Determination: 1992 Aerial photos in IDWR GIS database

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
A0004055	G.E.	400	H5H6318X082A	Verti-Line	37772708 (2300 gpm)
A0004056	U.S. Motor	250	1894201	Byron Jackson	397197-365 (2200 gpm)

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Flowmeter	Polysonic	Time-Flight	?	?	?	?

2. Measurements: A0004055 - T06S, R21E, Section 26 SWSW = 2260.5 gpm = 5.04 cfsA0004056 - T06S, R21E, Section 34 NENE = 1971.75 gpm = 4.39 cfs**E. FLOW CALCULATIONS**☒ Additional Computation Sheets Attached

Measured Method: Theoretical

$$Q = \frac{(8.8) \times (H.P.) \times (Eff)}{(Lift) + (PSI \times 2.31)}$$

$$Q = \frac{(8.8) \times (400) \times 70\%}{308 + (59 \times 2.31)} = \frac{2464}{444.29} = \underline{5.54 \text{ cfs}} \quad (\text{well in Section 26})$$

$$Q = \frac{(8.8) \times 250 \times 70\%}{308 + (59 \times 2.31)} = \frac{1540}{444.29} = \underline{3.46 \text{ cfs}} \quad (\text{well in Section 34})$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 200 \text{ ac} \times 4 \text{ AF/ac} = 800 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 4.0 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 19951.76 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{800 \text{ AFA}}$$

G. NARRATIVE/REMARKS/COMMENTS

The original permit was filed by Chris Newbold in 1979 and listed a well in the NWSE of Section 22 and another in the SWSW of Section 23, both in T06S, R21E. The permit was split into parts A & B in 1981. Part A was assigned to Jack Taylor and the assignment mentioned that the points of diversion would be changing on this portion. Proof was due on 1/1/1985 but a request for extension of time was approved giving them until 1/1/1990. The request mentioned that "the two old wells had been disconnected from the ground and two other existing wells were tapped to provide water ...also significant work is needed to get more water from the wells; simply increasing the horsepower did not work." Proof was filed on 12/18/1989 and did not specifically mention that the points of diversion had changed, but when Mel Shulte of IDWR conducted a field exam for this license on July 29, 1994, he measured the wells in Sections 26 and 34. I am assuming that he was told those were the wells in service at the time proof was filed, even though there was no mention in the file. He measured both wells and came up with measurements of 5.04 cfs for the well in Section 26 and 4.39 cfs from the well in Section 34. (These wells seemed to match field exams conducted earlier by IDWR) Jim Stanton measured 5.38 cfs for the well in Section 26 in 1987 for the licensing exam on right 36-7788 and 4.63 cfs was measured in 1978 during the licensing exam on right 36-2452 for the well in Section 34. Subsequently the wells are capable of producing the permitted amount of 2.06 cfs and also capable of producing the 4 AF/ac standard volume for the area. Review of 1990 aerial photography (see attached map) show the 200 acres as irrigated. Recommend licensing 36-7882A for 2.06 cfs and 800 AF for the irrigation of 200 acres.

The well in Section 26 currently has 3 other water rights (36-2205, 36-2452A and 36-7788A) diverted from it and is connected to two other wells. The system capacity for these three wells is 13.45 cfs. Water rights 36-2452B and 36-10108 are diverted from the well in Section 34. The system capacity for this well is 4.39 cfs. (total combined capacity 13.45 cfs + 4.39 cfs = 17.84 cfs) Recommend this license have a combined limit of 17.84 cfs for water rights 36-2205, 36-2452A, 36-2452B, 36-7882A, 36-7788A and 36-10108.

Note, it appears an Assignment of Permit was never filed for Jack Taylor to Jack Verbree but the \$25.00 fee for an assignment was submitted. The file contains all chain of title documents that clearly convey water right 36-7882A to Jack Verbree and then assigned to Verbree Land Holdings LLC.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	2.060 CFS	800.00 AF
<u>Totals:</u>		2.060 CFS	800.00 AF

2. Recommended Amendments

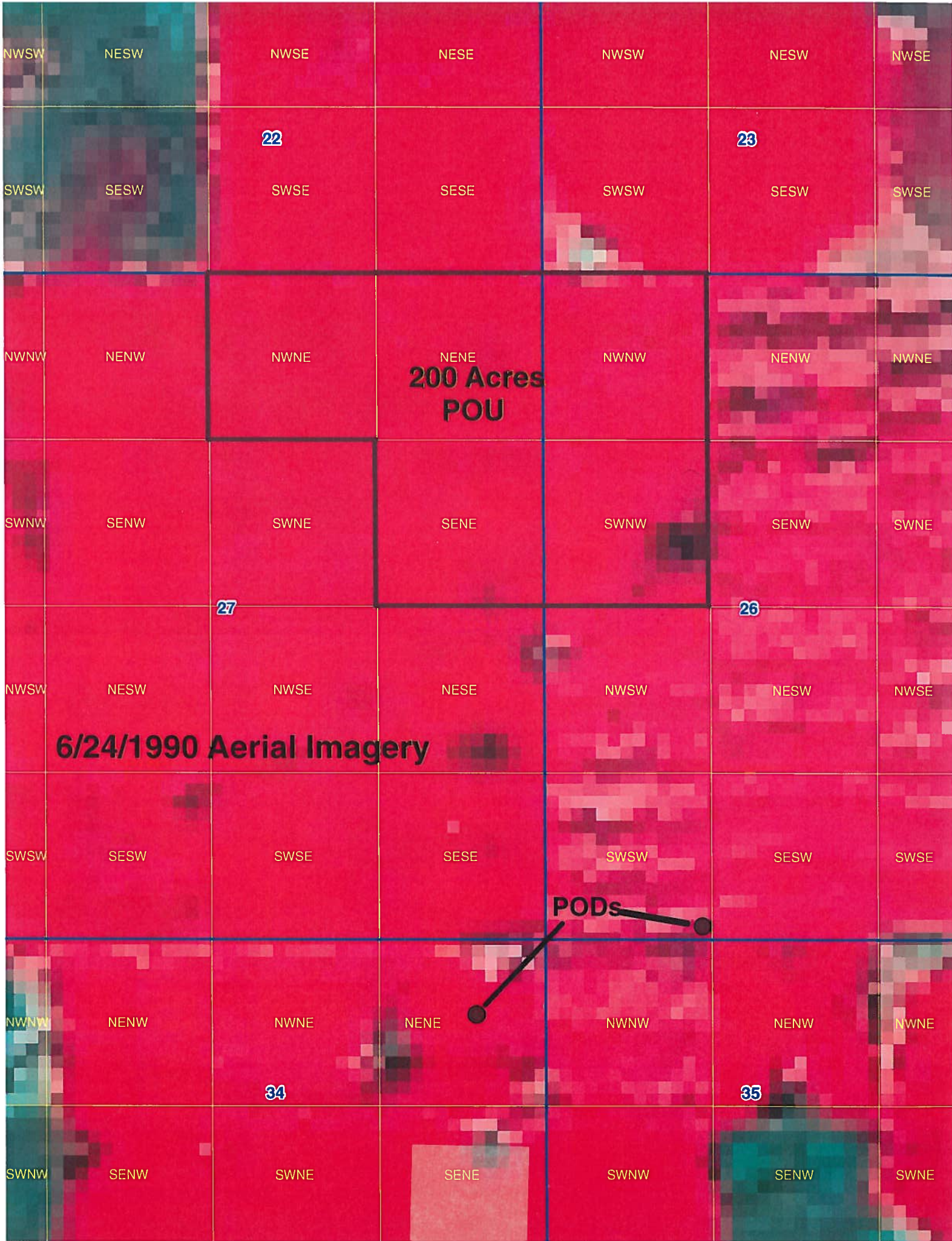
☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

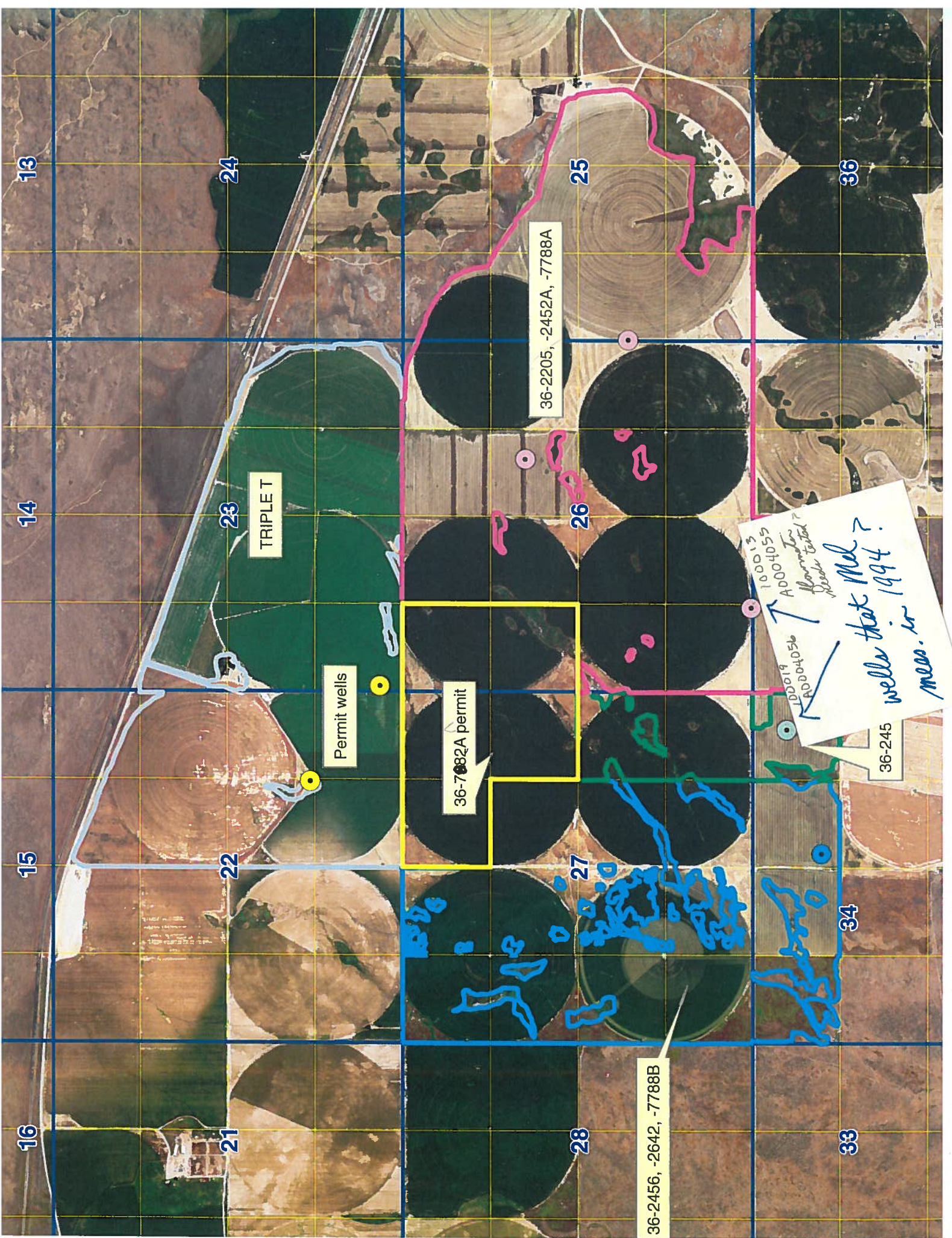
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Sara Reeder Date 6/3/14

Reviewer _____ Date _____





(#2) U.S. - 250 Hp
Ser # 1894201

NE NE Sect. 34
?

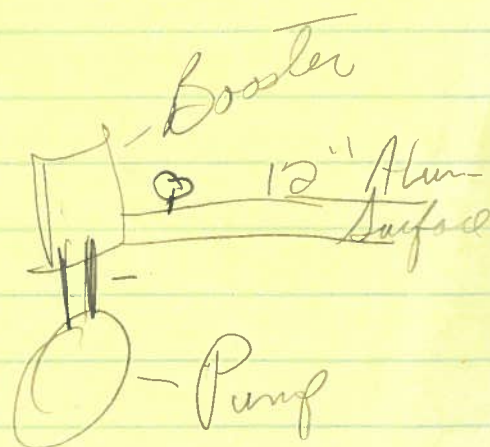
Pump - Byron-Jackson
14" CGH 4 Stg

397197-365

2200 gpm 1770 RPM

Booster - GE 150 Hp
Ser # 5H4443L2000
1730 RPM

Pump - Cornell
Mod 6HH150-4



Mel's # 2 seems to match this well
examined for 36-2452

(1978) exam meas.	4.63 cfs
(1994) Mel meas.	4.4 cfs

only 36-2452B uses this well
now = 1.41 cfs

4.4
- 1.41
3.01 available for permit

permit:
2.06
800 AF
200 AC

7

list both wells & limit all 5 sta.
to 14.92 cfs?, 4708 AF, 1177 AC?

MODE SELECT
INPUT

OUTER DIAMETER
12.0559 IN

PIPE MATERIAL
? AL, DI

WALL THICKNESS
0.0660 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

DATA CHANGE
? NO

SPACING
9.181 IN U

07-29 13:2800 *R
+ 2.003E 3GPM

ZERO MODE
CLEAR

ZERO MODE
AUT ZERO

ZERO MODE
ZERO OPR

07-29 13:2900 *R
+ 1.971E 3GPM

07-29 13:2900 *R
+003.00 % AI2

MODE SELECT
T0 CHECK

0450.4 MMSEC
101.10 % T0

07-29 13:3000 *R
+ 1.977E 3GPM

07-29 13:3100 *R
+ 1.974E 3GPM

07-29 13:3100 *R
+ 1.975E 3GPM

07-29 13:3200 *R
+ 1.961E 3GPM

#2
Taylor

Aug.
1971.8
GPM

PD #1 = SESUSW, 526.

GE 400 Hp
Mdl # 546318X082A

Verti Leno Pump - 37772708

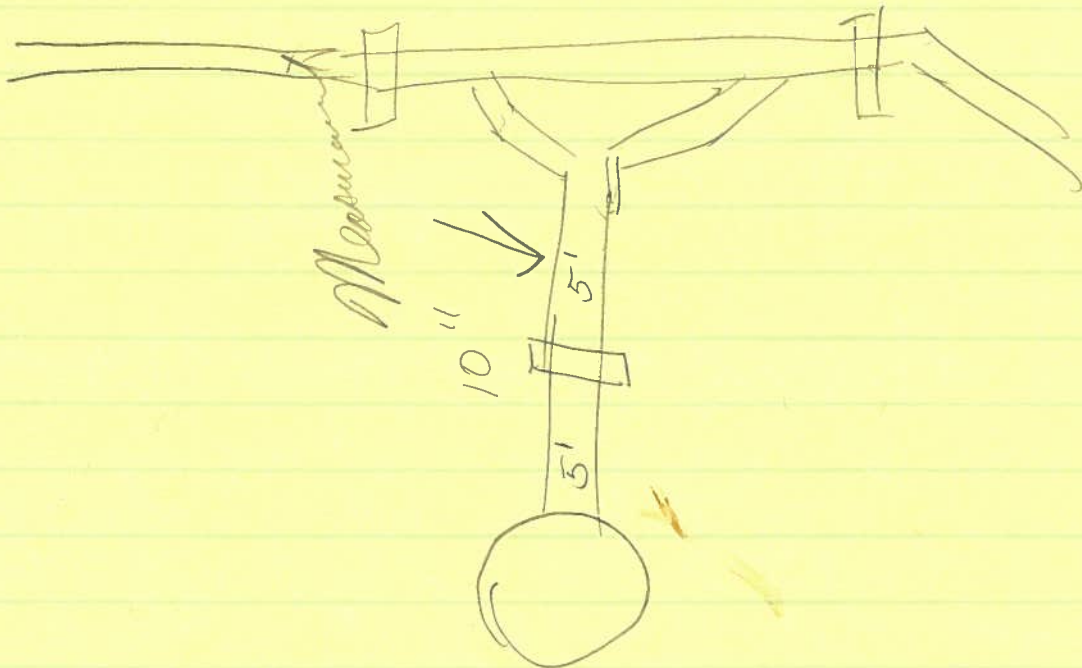
14 RM-H
2800 RPM. - 6 stage

520' head.

1800 RPM.

58 PSI.

center
2550 Paul Idgho
1



Mels #1 seems to match well #3
from lic. exam for 36-7788

Jim meas. (1987)	5.38 cfs
Mal meas. (1994)	5.04 cfs

system capacity for the three wells = 13.45

36-2205 = 10.04 cfs

36-2452A = 3.22 cfs

36-7788A = 1.94

15.2

+ 2.04

nothing left for permit from this well
?

MODE SELECT
INPUT

Taylor

OUTER DIAMETER
10.0571 IN

PIPE MATERIAL
? CS, SS

Pump #1

WALL THICKNESS
.15000 IN

INNER LINING
? NO LING.

KIND OF FLUID
? WATER

SENSOR MOUNTING
? U

TYPE OF SENSOR
? SMALL

DATA CHANGE
? NO

SPACING
7.636 IN U

ZERO MODE
CLEAR

ZERO MODE
AUT ZERO

ZERO MODE
ZERO OPR

07-29 12:2900 *R
+ 2.289E 3GPM

07-29 12:3000 *R
+ 2.290E 3GPM

07-29 12:3000 *R
+002.50 % AI2

MODE SELECT
T0 CHECK

0373.5 MMSEC
102.44 % T0

DAMPING SET
10 SEC

MODE SELECT
T0 CHECK

DAMPING SET
30 SEC

MODE SELECT
T0 CHECK

DAMPING SET
20 SEC

ZERO MODE
ZERO OPR

ZERO MODE ER
ZERO OPR

07-29 12:3700 *R
+ 2.246E 3GPM

07-29 12:3700 *R
+ 2.256E 3GPM

07-29 12:3700 *R
+ 2.268E 3GPM

07-29 12:3800 *R
+ 2.272E 3GPM

*Avg.
2260.5
GPM*



A0004055



North out to pivot



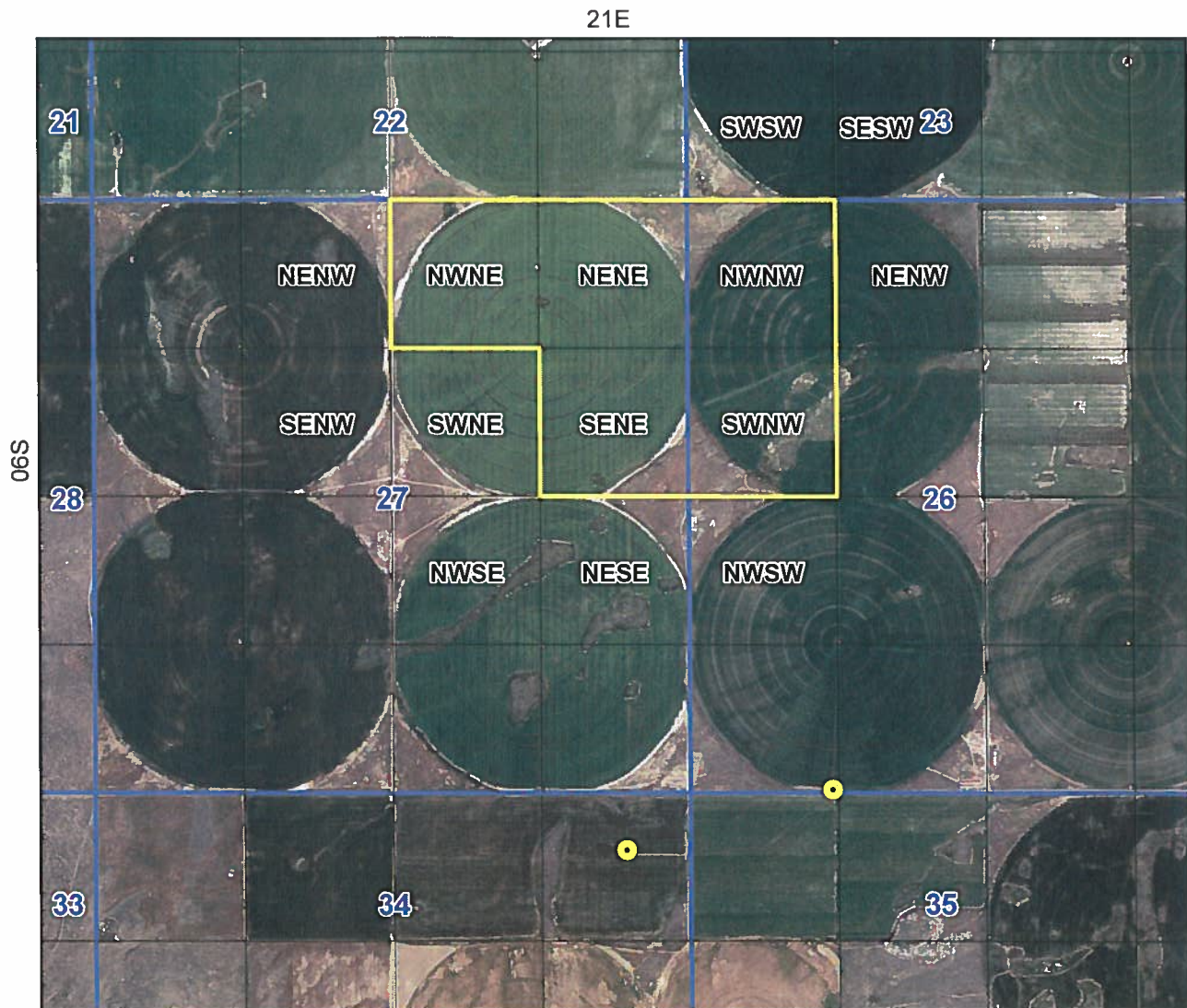
A0004056



North out to pivot

State of Idaho
Department of Water Resources
Attachment To Water Right License
36-7882A

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.2 0.4 0.8 Miles

