

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 11-7151

Exam Date: 7/12/2000

1. Current Owner: PAUL H DAINES
105 OLD MILL RD
MONTPELIER ID 83254
(208)847-1069

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

TRIBUTARY

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: None (see additional comments under Item 4 of this report)

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

GROUND WATER	NE1/4SW1/4	Sec. 5,	Twp 14S,	Rge 45E, B.M.
BEAR LAKE County				
GROUND WATER	SE1/4SW1/4	Sec. 5,	Twp 14S,	Rge 45E, B.M.
BEAR LAKE County				

Method of Determination: GPS receiver. Wells tagged with GPS metal tags A0010687 (NESW) and A0010686 (SESW)

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	
14S	45E	5						37.2	17.6		26.0			15.0		33.3	21.8		150.9
								L 4											
14S	45E	6	19.6	16.0	2.6	17.8													56.0
			L 1	L 2															

Total Acres: 206.9

Method of Determination:

Digitized irrigated acres using ArcMap from review of several aerial and satellite images between 1985 and 1992, including Landsat scenes from 1985, 1990 and 1991, and 1992 DOQQ. Certain lands or fields from the permit that are not included or recommended in this beneficial use field report appeared to be cultivated or possibly irrigated in the 1992 DOQQ, but did not appear to be irrigated in any of the Landsat scenes from 1985, 1990 and 1991. These same fields appear to be irrigated in more recent images, including 2004 and 2009 NAIP, and 2009 Landsat. The specific lands or fields in question are the S1/2 of SWNW, NWSW, and the pivot corners in the W1/2SE and E1/2SW, all in Section 5. In the 1992 DOQQ, the pivot corners in the NWSE and NESW appear to be at least cultivated, but the SWSE and SWSW corners do not appear cultivated. Pre -1992 Landsat scenes do not provide evidence of irrigation for any of the pivot corners or the adjoining field located mostly in the NWSW and S1/2SWNW.

The PCC exam conducted for the two wells in 2000 show that the system consists of a pivot that is irrigated by the Central Well (A0010687), and 3 wheel lines irrigated generally from the South Well (A0010686) for the fields located in the W1/2NW and NWSW of Section 5. No reference or irrigation system description is given for the land in Section 6 that is recommended in the POU on this report. The field in Section 6 is included in this report due since some there appears to be some evidence of irrigation for that field based on review of imagery between 1985 and 1992. The 3 wheel lines referenced in the 2000 PCC exam are visible in the 2004 NAIP image and each measures about 1/3 of a mile. Total nozzles described for 2 wheel lines in the PCC exam are 82, and total for all 3 wheel lines should be about 120 to 125.

On November 25, 2009, I spoke with Dennis Dunn, IDWR Eastern Region, who had made several visits to the permitted POU during the early 1990's for purpose of conducting a field exam. The exam was never completed because he could not measure the wells, either because they were not on or he could not measure at a location on the system with the manometer equipment he was using at the time. Dennis stated that he visited the permitted POU in 1992 and recalls that the field in Section 6 was not irrigated but dry farmed. He stated that the only ground irrigated at the time of his '92 visit was the pivot in the W1/2SE and E1/2SW, Section 5. However, the '92 DOQQ seems to show that at least part of the upper field in the W1/2NW was irrigated that year. Dennis said he recalls that the rectangular fields in the W1/2NW and NWSW of Section 5 had wheel lines but they were disconnected; these same fields had a dry crop of alfalfa. Dennis also said the pivot corners were not irrigated during his visit in '92 or other times in the early 90's. Based on discussion with Dennis and review of imagery, we conclude that the owner likely moved wheel lines between the rectangular fields in Section 6 and the W1/2NW and NWSW of Section 5 between 1985 and 1992. Dennis further noted that one or both of the wells under this permit were not producing water as designed or intended. A Request for Extension of Time filed in 1982 states that the original well, drilled in 1980, was not providing full capacity. The file also shows that the second well was drilled in 1983, and that the first well was deepened in 1997. The file and visits by Dennis seem to clearly indicate that full number of permitted acres for which proof was filed in 1988 (300 acres) were not developed before the 9/1/1988 final proof date.

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 (See PCC Field exam report in file)

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>
Central A0010687	Newman	50	V1009803	NA	NA
South A0010686	Newman	75	S20270311	Weston Land	8205641

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

Note: These two wells are not connected to the well under license no. 11-2111, also owned by Paul Daines. The well under 11-2111 is identified as the Daines North well, GPS site tag no. A0010688. This well is used to irrigate three separate pivots all located north of the pivot in the W1/2SE and E1/2SW of Sec. 5. A separate PCC measurement was made on this north well and the notes indicate that well consistently runs 2 pivots at one time, or 2 of the 3 pivots under license 11-2111. No POU overlap exists between rights 11-2111 and 11-7151.

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>
Ultrasonic/Polysonics TFP		Fuji		150232	2 - 60"	March, 1999

(IdahoProperty Tag #)

2. Measurements: See meter printouts attached to PCC worksheets.

Central Well A0010687: 897.0 gpm (2.00 cfs)
 South Well A0010686: 748.0 gpm (1.66 cfs)
 Total: 1,645 gpm (3.66 cfs)

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

Discharge from both wells measured using TFP Ultrasonic flow meter. See meter printout of measured flows attached to Power Consumption Coefficient (PCC) Worksheet. Measurements made for purposes of determining PCCs and average water use from wells in Bear River basin as part of project to determine ground water depletions in Bear River Basin. Flows measured appear to be reasonable based on system descriptions, including the 897 gpm rate for the pivot. The 748 gpm measured rate for the wheel line system seems high, particularly since the PCC field exam indicated that only 2 wheel lines (82 nozzles) were running at the time of the exam. However, the flow may be more reasonable for 3 1/3-mile wheel lines running total of 125 nozzles and a rate of 6 gpm/nozzle. The PCC exam noted that the two wells are inter-connected, and that the Central well sometimes is used for both pivots and wheel lines, although it is noted that the well was only being used for the pivot in 2000 (diagram of Central well in PCC exam shows two mainlines off the well). so the South Well may have also been contributing to some of the flow at the pivot.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 206.9 \text{ ac} \times 3.5 \text{ afa} = 724.2 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 3.66 \text{ cfs} \times 183 \times 1.9835 = 1,328.5 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 724.2 \text{ af}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

The beneficial use field examination report has been generated based on field examination and measurements of the two wells under this right made on July 12, 2000 by IDWR staff. See water right file for further information

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

- Access port condition not met but condition is not necessary.

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/15 to 10/15	3.66 CFS	724.20 AF
	<u>Totals:</u>	3.66 CFS	724.20 AF

2. Recommended Amendments

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

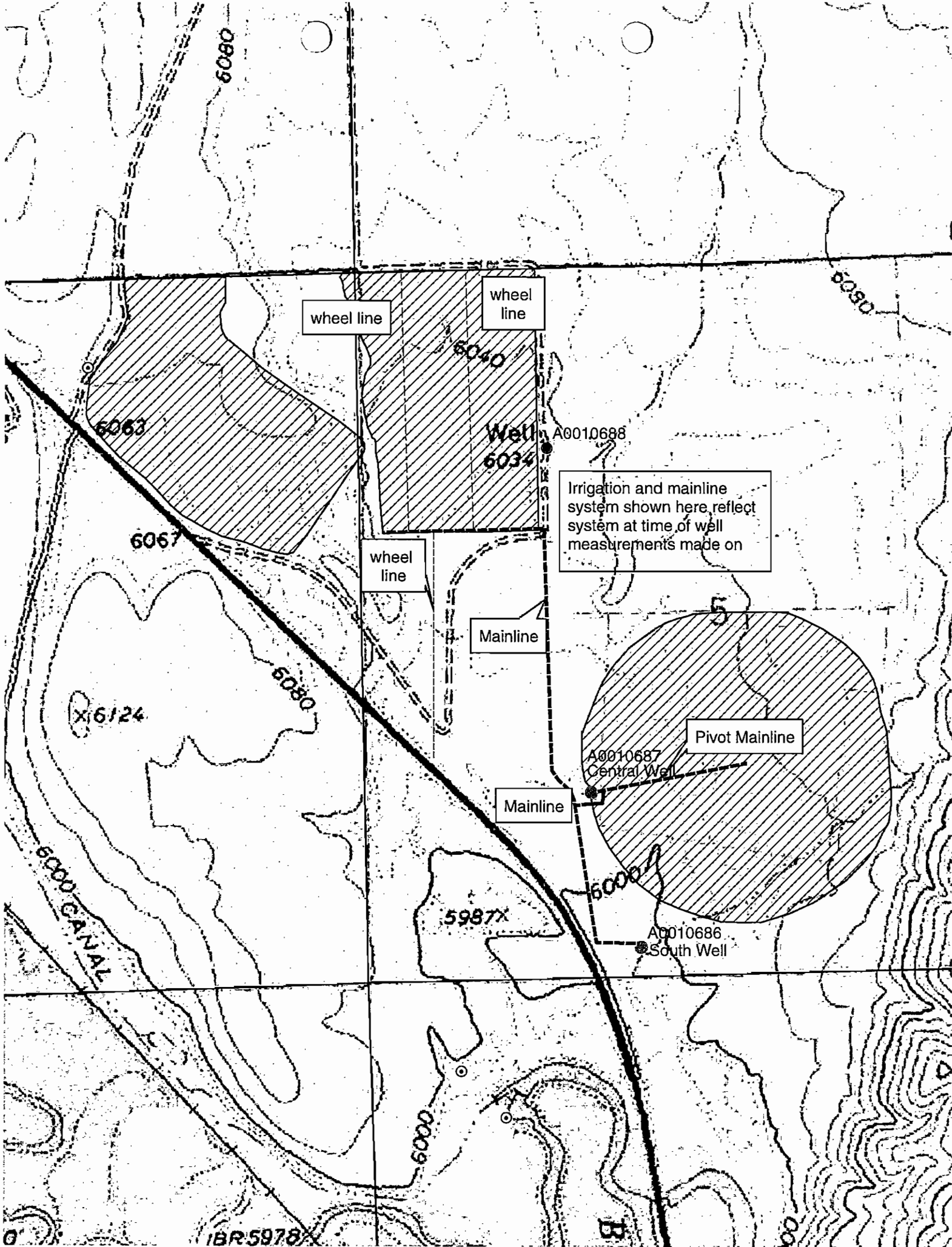
☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name: Burke Scholer and Jane Tallman _____ Date: 07/12/2000 _____

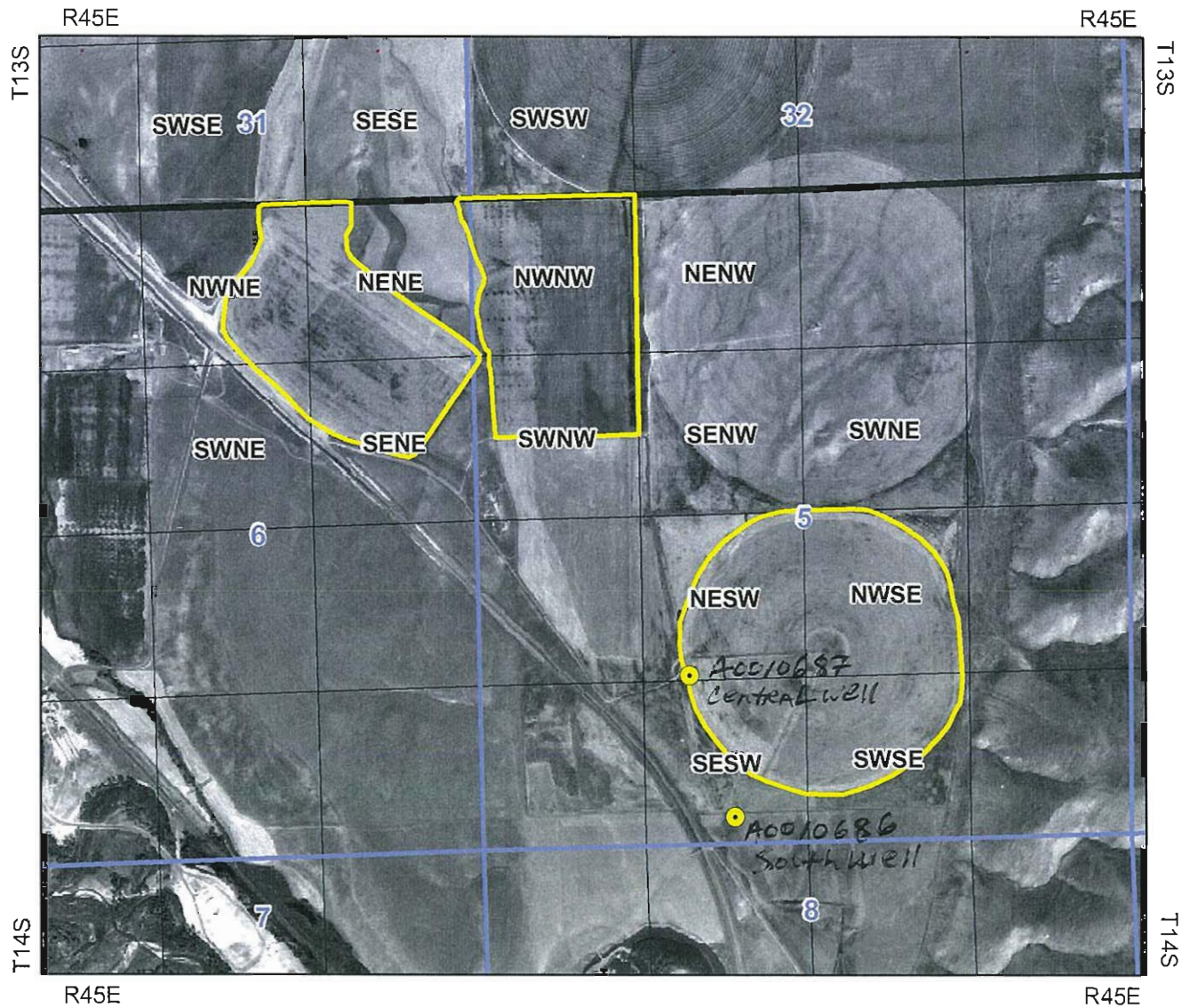
Reviewer: Tim Luke* _____ Date: 11/24/2009 _____

* Completed this Beneficial Field Report using field measurements and notes from 7/12/2000 PCC field exams for the two wells owned by the permit holder.



State of Idaho
Department of Water Resources
Water Right License
11-7151

Water Service Area Boundary for Paul H Daines



Legend

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

0 0.15 0.3 0.6 Miles

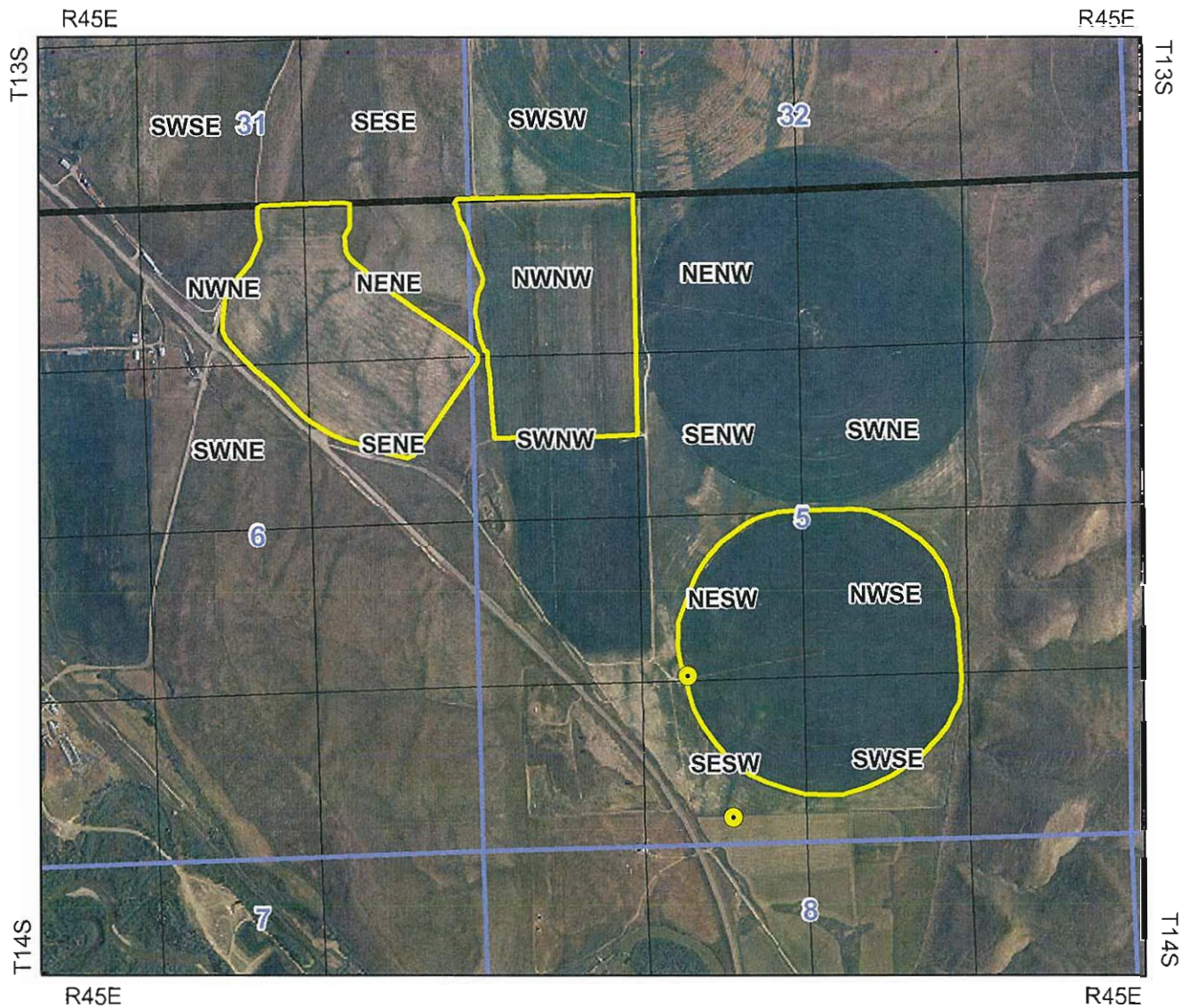


Aerial Image source : 1992 Digital Orthophoto (B&W)

State of Idaho
Department of Water Resources
Water Right License

11-7151

Water Service Area Boundary for Paul H Daines



Legend

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

0 0.15 0.3 0.6 Miles



Aerial Image Source: 2004 NAIP

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Water Measurement Program

POWER CONSUMPTION COEFFICIENT WORKSHEETDate of test 7/12/00Person performing test Schuler / Talbot

Name:	<u>Paul H. Darnus Employees</u>
Water Right No:	_____
Legal Description:	T _____ R _____ Sec _____ 1/4 _____ 1/4 _____ 1/4 _____
Site Tag No:	<u>A0010686</u>
Diversion Name:	<u>1999 Inventory Database ID = 304 (S. well)</u>

Current Owner

Name James, Paul Phone 847-1542
Last First MI
Address _____ City Montpelier State ID Zip _____

Operator (if leased or operated by someone else)

Name Worstenhine, Brad Phone 847-2850, shop 847-3179
Last First MI

SECTION I WELL SITE IDENTIFICATION

Global Positioning System Data:

Data Collection Filename _____ Offset _____

IDWR Site Tag Identification No. A0010686Site Tag location description: on main pipe for pump

PLS/USGS Locator _____

For Department/District Use Only

Received by _____ Date _____

Reviewed by _____ Date _____

Data Entry by _____ Date _____

Well Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer	Weston Land Pumps	Manufacturer	Newman
Serial Number	8205641	Serial Number	S20270311
Model Number	8MOL-15	Rated Horsepower	75
Type	3-12JK-H	Rated Amps	91
Impeller Diameter		Rated Volts	460
Rated Speed		Rated Speed	1775
Rated Discharge		Phase	3
Rated Head		Service Factor	1.15

Booster Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer		Manufacturer	
Serial Number		Serial Number	
Model Number		Rated Horsepower	
Type		Rated Amps	
Impeller Diameter		Rated Volts	
Rated Speed		Rated Speed	
Rated Discharge		Phase	
Rated Head		Service Factor	

Power and Water Metering Information

KILOWATT HOUR METER		WATER MEASUREMENT METER and MOUNTING PIPE INFORMATION	
Utility	City of L	METER INFORMATION	
Pole No.		Manufacturer	
Meter Manufacturer	Garland	Model Number	
Meter Serial No.	42497217	Type	
Disc Constant(Kh)	57.6	PIPE INFORMATION	
Rated Voltage	480	Pipe material	
Demand	76.32	Outside Diameter	8.1675'
Multiplier (Mult)	1x	Inside Diameter	8.183'
CTR (Current)		Distance of straight pipe upstream and down	Upstream /Down
PTR (Voltage)	N/A		

Determination of Power Consumption Coefficient

Kilowatts of Energy Consumed

$KW = 3.6 \times Kh \times \text{Multiplier} \times \text{No. of revolutions}(N) \div \text{Time}(T) \text{ in seconds per } N$

Cond.#1 $N = 10$ (No. of Disc Rev) Time (sec) = $(30.84) + (31.00) + (31.00) / 3 = 30.95$ Ave DEMAND 76.32 ok

$3.6 \times 57.6 (Kh) \times 8 (\text{Mult}) \times 10 (N) \div 30.95 (T) = 67.00$ KW $1.34 \times 91 = 81.7$
 25×1.09

Cond.#2 $N =$ (No. of Disc Rev) Time (sec) = () + () + () / 3 = Ave

$3.6 \times$ (Kh) $\times$ (Mult) $\times$ (N) $\div$ (T) = KW

Cond.#3 $N =$ (No. of Disc Rev) Time (sec) = () + () + () / 3 = Ave

$3.6 \times$ (Kh) $\times$ (Mult) $\times$ (N) $\div$ (T) = KW

Measured Flow Rate and Discharge Pressure - Enter flow rate as determined by the "standard" water measurement meter in GPM, and discharge pressure measured in PSI. Attach documentation to support data such as notes, printout tapes etc.

GPM Cond. #1 748 #2 #3

PSI Cond. #1 70.13 #2 #3

Power Consumption Coefficient (PCC) = $KW \times 5431 \div GPM$

PCC Cond. #1 = 67.0 (KW) $\times 5431 \div$ 748 (gpm) = 486.5 (kWh/ac.ft)

Percent of seasonal use 100

PCC Cond. #2 = (KW) $\times 5431 \div$ (gpm) = (kWh/ac.ft)

Percent of seasonal use

PCC Cond. #3 = (KW) $\times 5431 \div$ (gpm) = (kWh/ac.ft)

Percent of seasonal use

Is the system operator required to track and report changes in system operation? Yes / No
 (see form PCC3)

Water Level Data

Does the well have access to measure water levels? Yes / No

Static Water Level ft Pumping Water Level ft (at condition #)
 Date Date

Describe system operating conditions and how percentage of seasonal use was obtained:

3 wheel lines? 2 canopy (82 nozzles)

Sketch of pumping plant layout or attach photograph of pumping plant and piping:

Comments:

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature

Sam Lella
(person performing measurements)

Date

7/12/00

11:47+711.679E	06PM	00R
+00526	*10 G	00R
-00000	*10 G	00R
11:48+696.621E	06PM	00R
+00599	*10 G	00R
-00000	*10 G	00R
11:49+767.684E	06PM	00R
+00675	*10 G	00R
-00000	*10 G	00R
11:50+742.851E	06PM	00R
+00748	*10 G	00R
-00000	*10 G	00R
11:51+748.927E	06PM	00R
+00822	*10 G	00R
-00000	*10 G	00R
11:52+728.850E	06PM	00R
+00898	*10 G	00R
-00000	*10 G	00R
11:53+726.737E	06PM	00R
+00972	*10 G	00R
-00000	*10 G	00R
11:54+723.303E	06PM	00R
+01047	*10 G	00R
-00000	*10 G	00R
11:55+746.550E	06PM	00R
+01122	*10 G	00R
-00000	*10 G	00R
11:56+721.718E	06PM	00R
+01196	*10 G	00R
-00000	*10 G	00R

OUTER DIAMETER
8.6748 IN

WALL THICKNESS
0.1831 IN

SPACING
6.499 IN U

OUTER DIAMETER
8.6748 IN

07-12 11:3300 *R
+002.70 % AI2

0317.0 MMSEC
102.10 % T0

11:40+798.856E	06PM	00R
+00000	*10 G	00R
-00000	*10 G	00R

11:41+755.003E	06PM	00R
+00075	*10 G	00R
-00000	*10 G	00R

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+00150	*10 G	00R
-00000	*10 G	00R

11:43+734.398E	06PM	00R
+00225	*10 G	00R
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+00302	*10 G	00R
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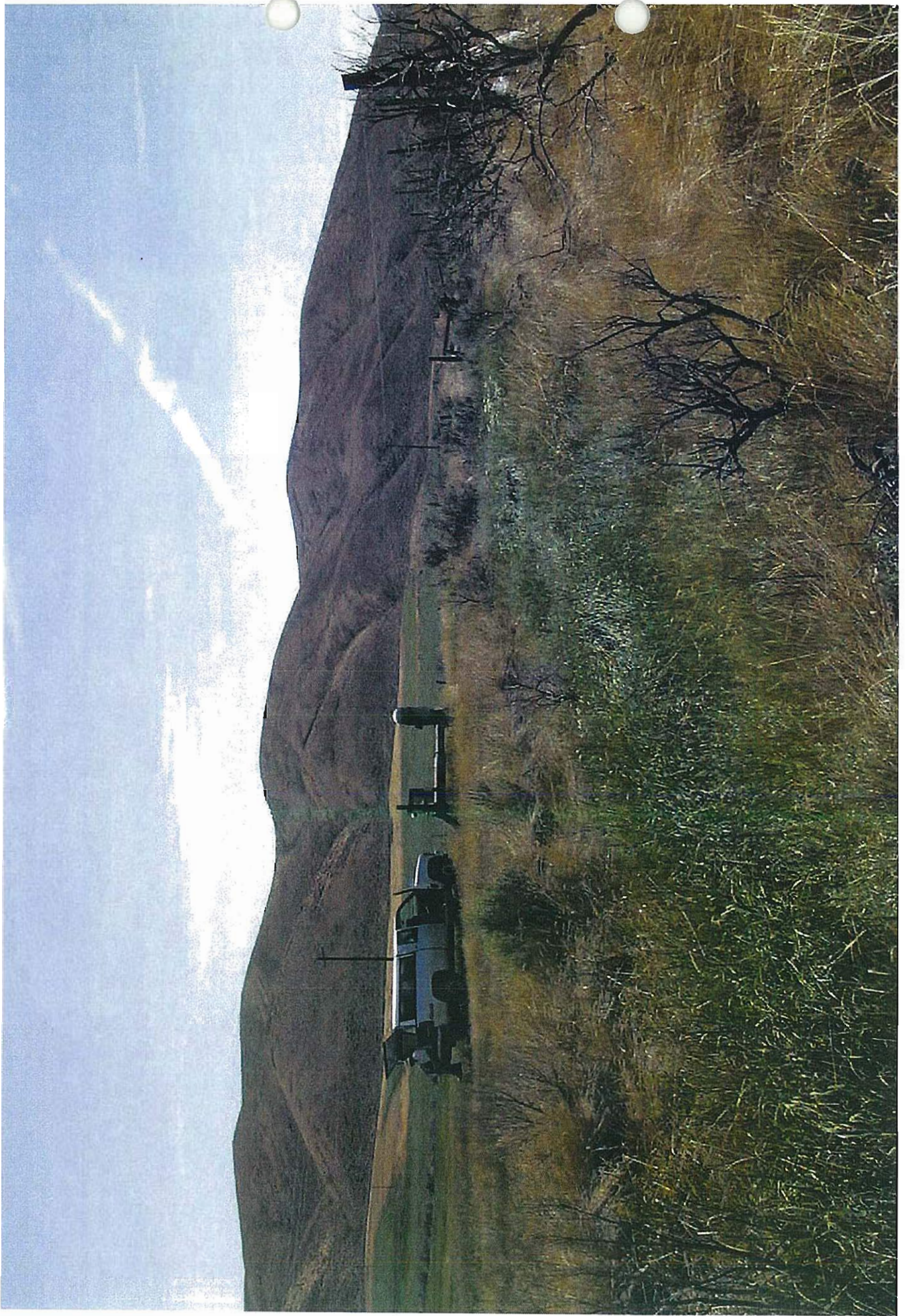
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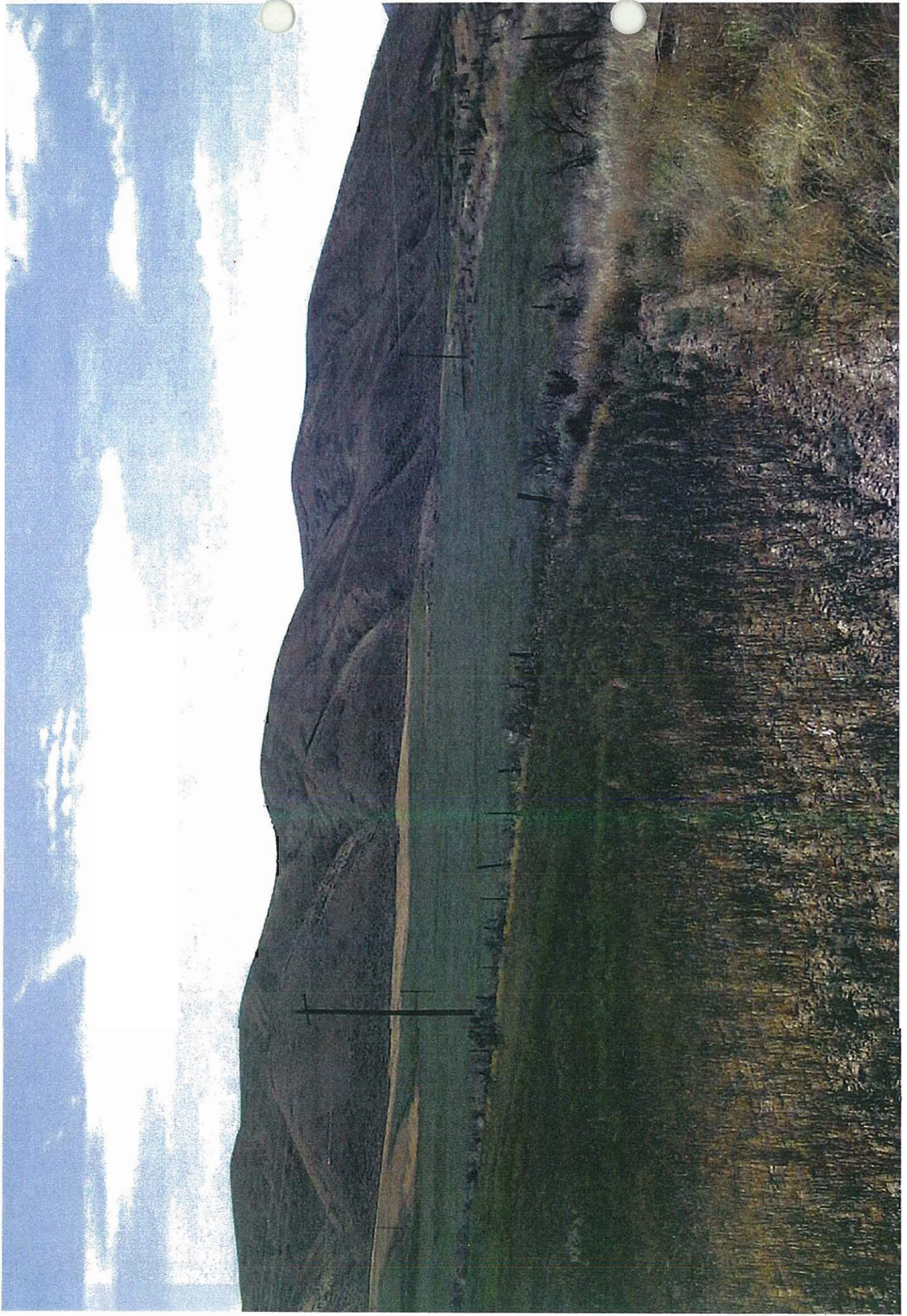
PHIL DAVIES - WOLSTONHAMS

7/12/00

A-0010686

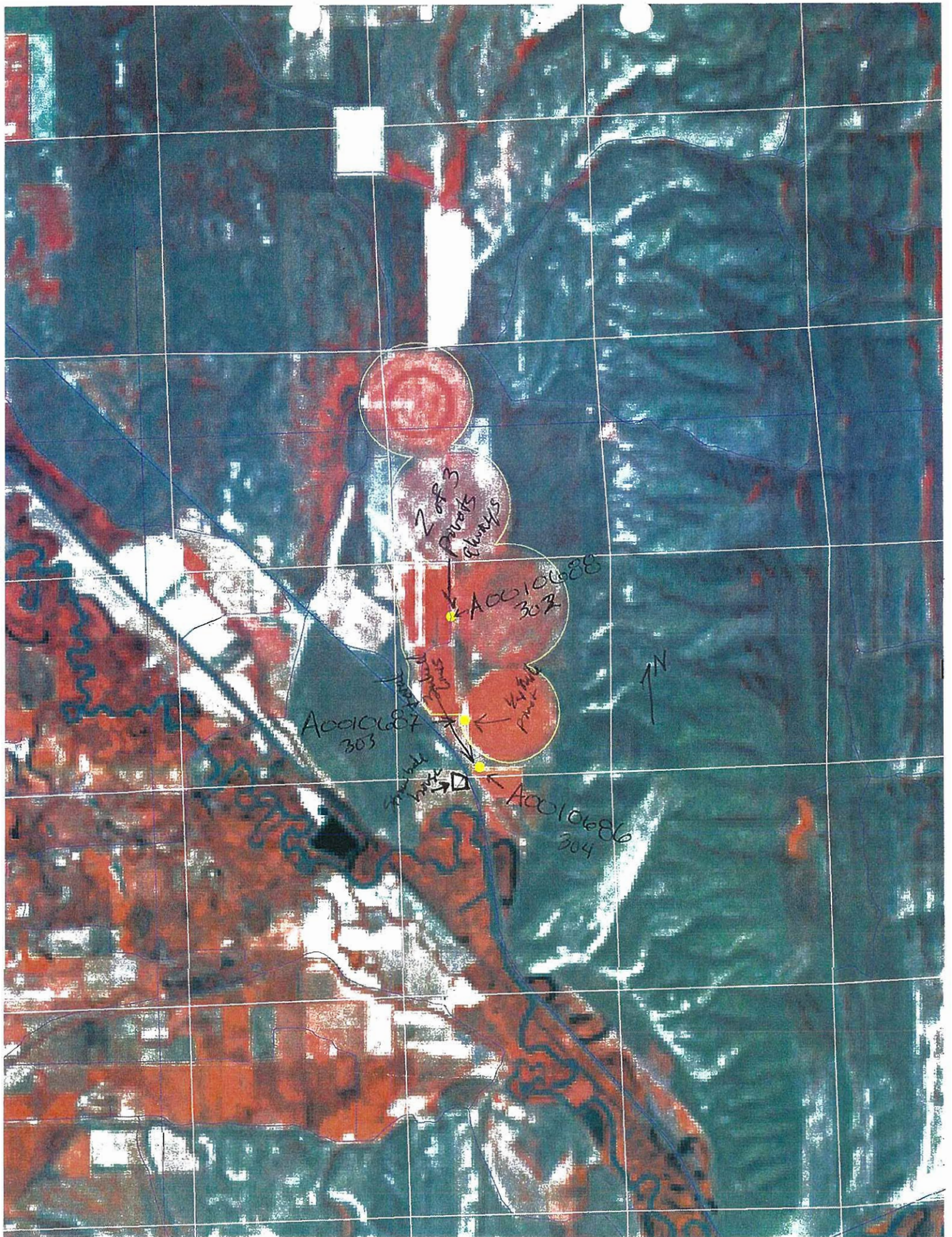


Dunes Area 10686 (south well) 7/00



Daines (Montpelier) looking south from south well (A0010686)

7/00



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Water Measurement Program

POWER CONSUMPTION COEFFICIENT WORKSHEET

Date of test 7/12/00

Person performing test Scholar / Tallman

Name:	<u>Paul H. Dames Employees Trust</u>
Water Right No:	<u>11-07151</u>
Legal Description:	<u>T 146 R 45E Sec 06 SE 1/4 SW 1/4</u>
Site Tag No:	<u>A0010687</u>
Diversion Name:	<u>1999 Inventory Database ID = 303 (Spatial Dynamics)</u>

Current Owner

Name Dames, Paul Phone 847-1542/847-1069
Last, First, MI

Address Old Mill Rd. City Montpelier State ID Zip

Operator (if leased or operated by someone else)

Name Whitstonehime, Brad Phone 847-2850, shop 847-3179
Last, First, MI

SECTION I WELL SITE IDENTIFICATION

Global Positioning System Data:

Data Collection Filename Offset

IDWR Site Tag Identification No. A0010687

Site Tag location description: on pipe that runs south from pump

PLS/USGS Locator

For Department/District Use Only

Received by Date

Reviewed by Date

Data Entry by Date

Well Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer		Manufacturer	Newman
Serial Number		Serial Number	V109803
Model Number		Rated Horsepower	50
Type		Rated Amps	127/120 60
Impeller Diameter		Rated Volts	200/220 440
Rated Speed		Rated Speed	1780
Rated Discharge		Phase	3
Rated Head		Service Factor	1.15

Booster Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer		Manufacturer	
Serial Number		Serial Number	
Model Number		Rated Horsepower	
Type		Rated Amps	
Impeller Diameter		Rated Volts	
Rated Speed		Rated Speed	
Rated Discharge		Phase	
Rated Head		Service Factor	

Power and Water Metering Information

KILOWATT HOUR METER		WATER MEASUREMENT METER and MOUNTING PIPE INFORMATION	
Utility	Pacific	METER INFORMATION	
Pole No.		Manufacturer	STP STP
Meter Manufacturer	AEB	Model Number	STAT 150232
Meter Serial No.	02455563	Type	
Disc Constant(Kh)	14.4	PIPE INFORMATION	
Rated Voltage	120 to 480	Pipe material	CS
Demand	46.97	Outside Diameter	8.05'
Multiplier (Mult)	1	Inside Diameter	2.089'
CTR (Current) PTR (Voltage)	N/A	Distance of straight pipe upstream and down	Upstream / Down 1.5' / 4' +

Spacing

Determination of Power Consumption Coefficient

Kilowatts of Energy Consumed

$$KW = 3.6 \times Kh \times \text{Multiplier} \times \text{No. of revolutions}(N) \div \text{Time}(T) \text{ in seconds per } N$$

Cond.#1 $N = 20$ (No. of Disc Rev) Time (sec) = $(25.18) + (25.18) + (25.10) / 3 = 25.14$ Ave

$$3.6 \times 14.4 \text{ (Kh)} \times 1 \text{ (Mult)} \times 20 \text{ (N)} \div 25.14 \text{ (T)} = 41.24 \text{ KW}$$

Cond.#2 $N =$ (No. of Disc Rev) Time (sec) = () + () + () / 3 = Ave

$$3.6 \times \text{ (Kh)} \times \text{ (Mult)} \times \text{ (N)} \div \text{ (T)} = \text{ KW}$$

Cond.#3 $N =$ (No. of Disc Rev) Time (sec) = () + () + () / 3 = Ave

$$3.6 \times \text{ (Kh)} \times \text{ (Mult)} \times \text{ (N)} \div \text{ (T)} = \text{ KW}$$

Measured Flow Rate and Discharge Pressure - Enter flow rate as determined by the "standard" water measurement meter in GPM, and discharge pressure measured in PSI. Attach documentation to support data such as notes, printout tapes etc.

GPM Cond. #1 8970 #2 #3

PSI Cond. #1 #2 #3

$$\text{Power Consumption Coefficient (PCC)} = KW \times 5431 \div GPM$$

PCC Cond. #1 = 45 (KW) $\times 5431 \div$ (gpm) = (kWh/ac.ft)

Percent of seasonal use

PCC Cond. #2 = 41.24 (KW) $\times 5431 \div$ 8970 (gpm) = 249.69 (kWh/ac.ft)

Percent of seasonal use

PCC Cond. #3 = (KW) $\times 5431 \div$ (gpm) = (kWh/ac.ft)

Percent of seasonal use

Is the system operator required to track and report changes in system operation? ☒ Yes / ☐ No
(see form PCC3)

Water Level Data

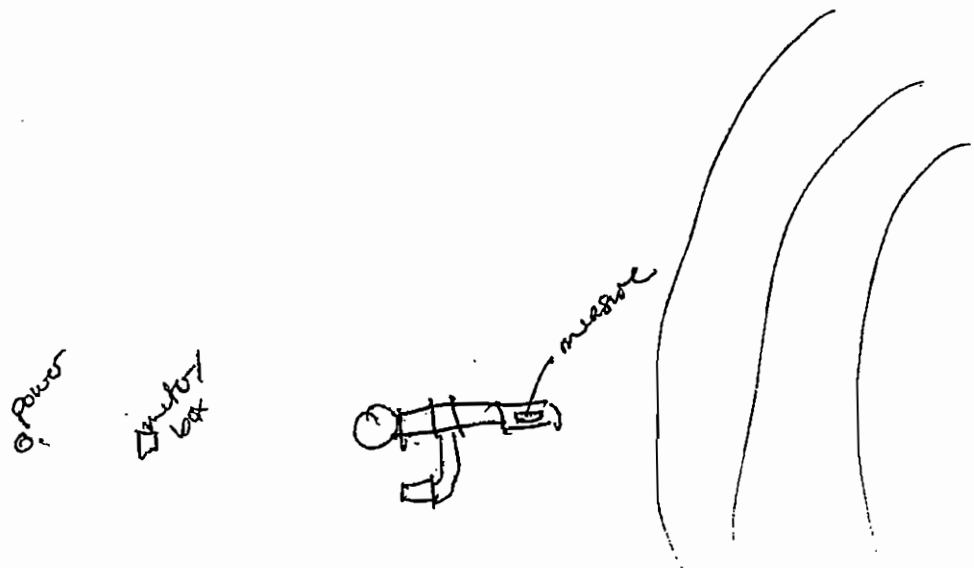
Does the well have access to measure water levels? ☒ Yes / ☐ No

Static Water Level ft Pumping Water Level ft (at condition #)
Date Date

Describe system operating conditions and how percentage of seasonal use was obtained: _____

This year only running pivot to east - grain
Sometimes have conveyed w/ S. well to Run wheel lines
1/4 mi. pivot

Sketch of pumping plant layout or attach photograph of pumping plant and piping:



Comments: _____

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature [Signature] Date 7/12/00
(person performing measurements)

OUTER DIAMETER
8.0500 IN

WALL THICKNESS
0.0890 IN

SPACING
~~5.011~~ IN U

07-12 10:3500 *R
+002.50 % AI2

SOUND VELOCITY
1420 M/S-

SPACING
5.488 IN U

0303.0 MMSEC
099.56 % T0

10:55+899.770E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

10:56+863.314E 06PM 00R
+00089 *10 G 00R
-00000 *10 G 00R

10:57+863.314E 06PM 00R
+00178 *10 G 00R
-00000 *10 G 00R

10:58+867.805E 06PM 00R
+00267 *10 G 00R
-00000 *10 G 00R

10:59+909.280E 06PM 00R
+00357 *10 G 00R
-00000 *10 G 00R

11:00+899.770E 06PM 00R
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-00000 *10 G 00R

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11:03+901.619E 06PM 00R
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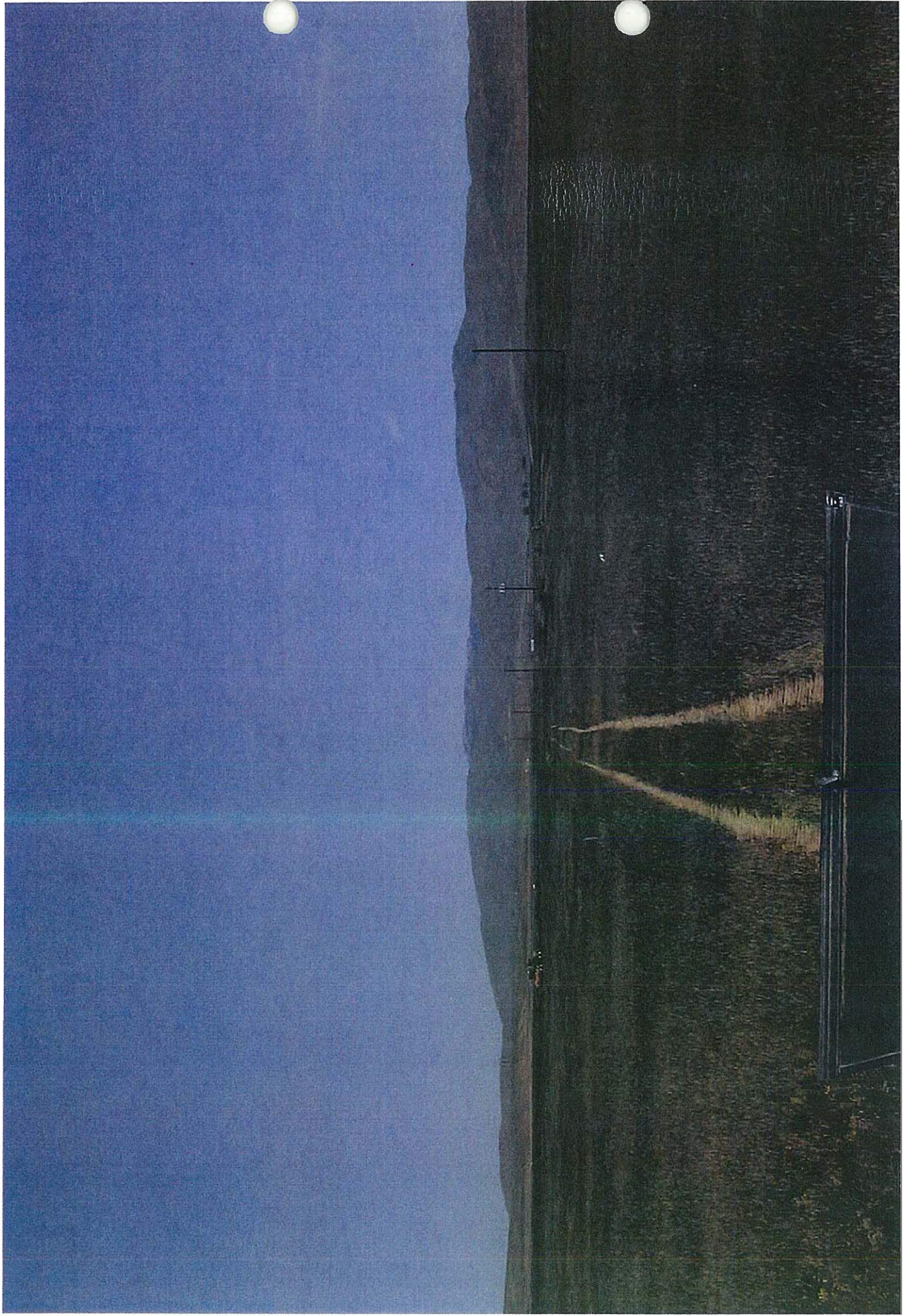
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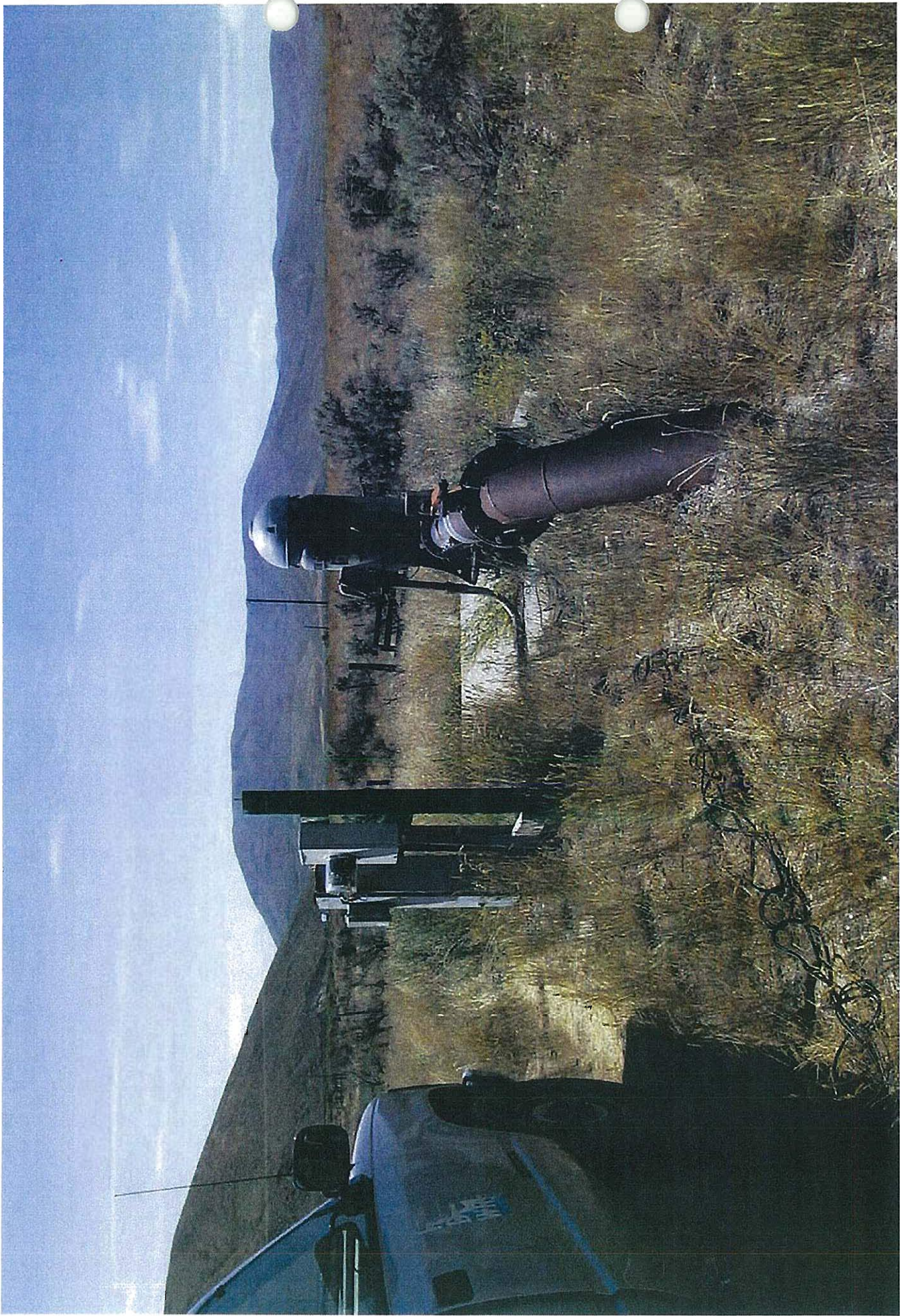
11:08+921.168E 06PM 00R
+01161 *10 G 00R
-00000 *10 G 00R

11:09+926.715E 06PM 00R
+01251 *10 G 00R
-00000 *10 G 00R

10010687
A/12/66
James



Daines (Montpelier) - view from south well (A0010686) to central well (A0010687). 7/10



7/00

Daines A0010687 (south side)

