

A. GENERAL INFORMATION

Exam Date: 6/5/2013

1. Current Owner: ZELDON NELSON
37777 WEST JUNIPER RD
MALTA ID 83342
(208)645-2572
2. Accompanied by: Zeldon Nelson
Phone No:
Address:
Relationship to Permit Holder: Same

TRIBUTARY

GROUND WATER

1. Other water rights with the same place of use: 17-7008B and 17-7089
2. Other water rights with the same point of diversion: 17-7008B and 17-7089

1. LOCATION OF POINT(S) OF DIVERSION:

Method of Determination: GPS, Site Visit -112.978949, 42.158174

2.

[illegible]

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	30E	28					22.0	35.0		17.0	40.0	39.0	39.0					192.0	
14S	30E	29											2.0	33.0		38.0	40.0	113.0	
14S	30E	32	40.0	40.0	40.0	40.0	14.0		8.0	7.0			32.0	40.0	40.0	36.0	29.0	366.0	

Total Acres: 671

Method of Determination:

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>
	GE	200	5K6278XH1A		
	Newman	75	M1160405	Booster PUMP	

*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>
Fuji	Portaflow		91012	00FY099T		3/29/2013

2. Measurements:

North mainline = 4.25 cfs (20990 gal/11 min) = 1908 gal/min
 Middle mainline = 0.26 cfs (1276 gal/11 min) = 116 gal/min
 South mainline = 0.34 cfs (1228 gal/8 min) = 153.5 gal/min

TOTAL = 4.85 cfs**E. FLOW CALCULATIONS**

____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 333 \text{ acres (additional acres)} \times 3.5 = 1165.5 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 4.85 \times 214 \times 1.9835 = 2058.67 = 2059 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1165.5 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$34 \text{ range cattle} \times 12 \text{ gpd} \times 365 = 148920 \text{ gal/325850} = .457$$

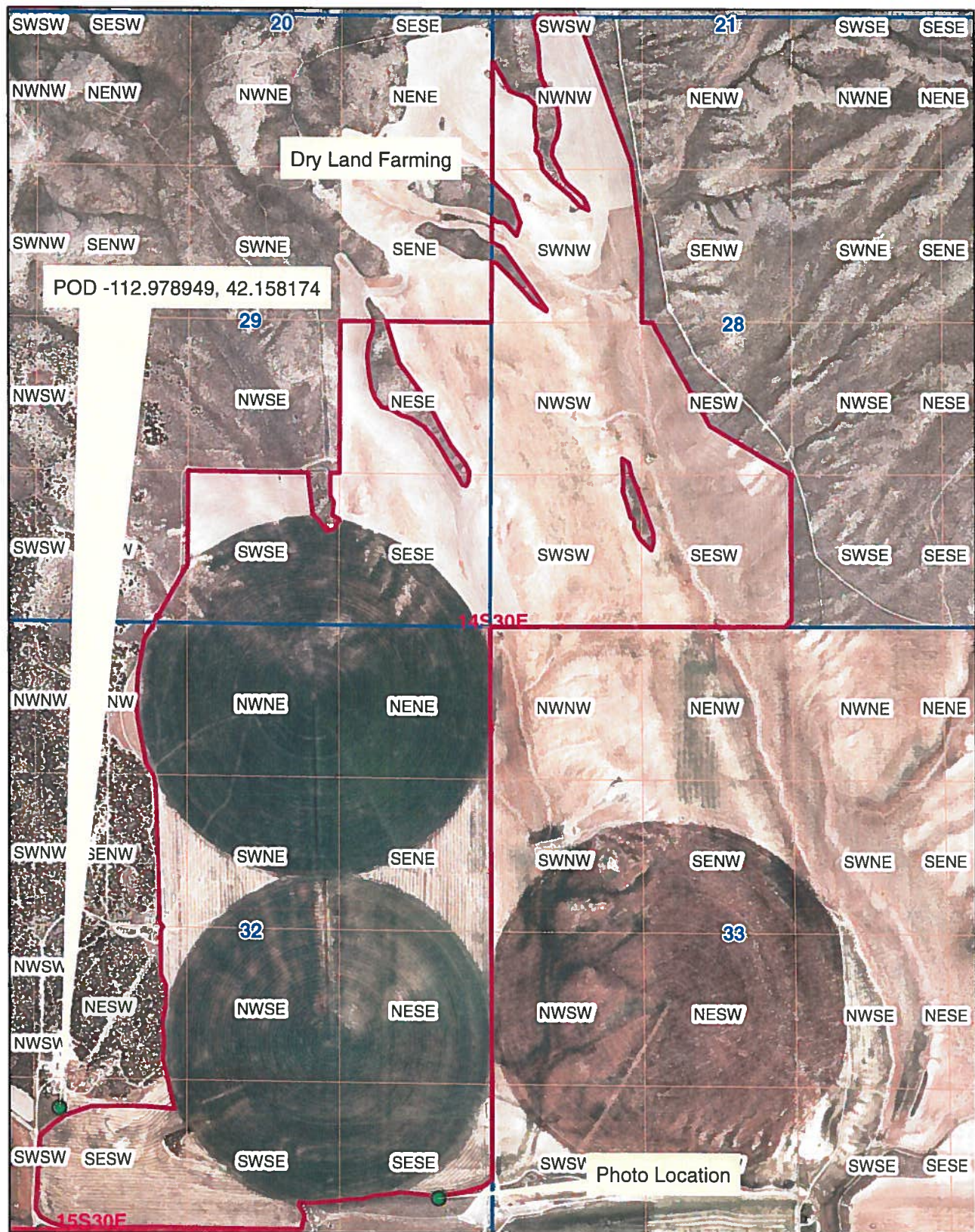
$$5 \text{ horses} \times 12 \text{ gpd} \times 365 = 21900 \text{ gal/325850} = .067 \quad (.457 + .067 = .524 = .6 \text{ AF})$$

G. NARRATIVE/REMARKS/COMMENTSHave 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>
STOCKWATER	01/01 to 12/31	0.020 CFS	0.6 AF
IRRIGATION	04/01 to 10/31	4.850 CFS	1165.5 AF
	<u>Totals:</u>	4.850 CFS	1166.1 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 Kerrie Mathews Date 6/5/2013

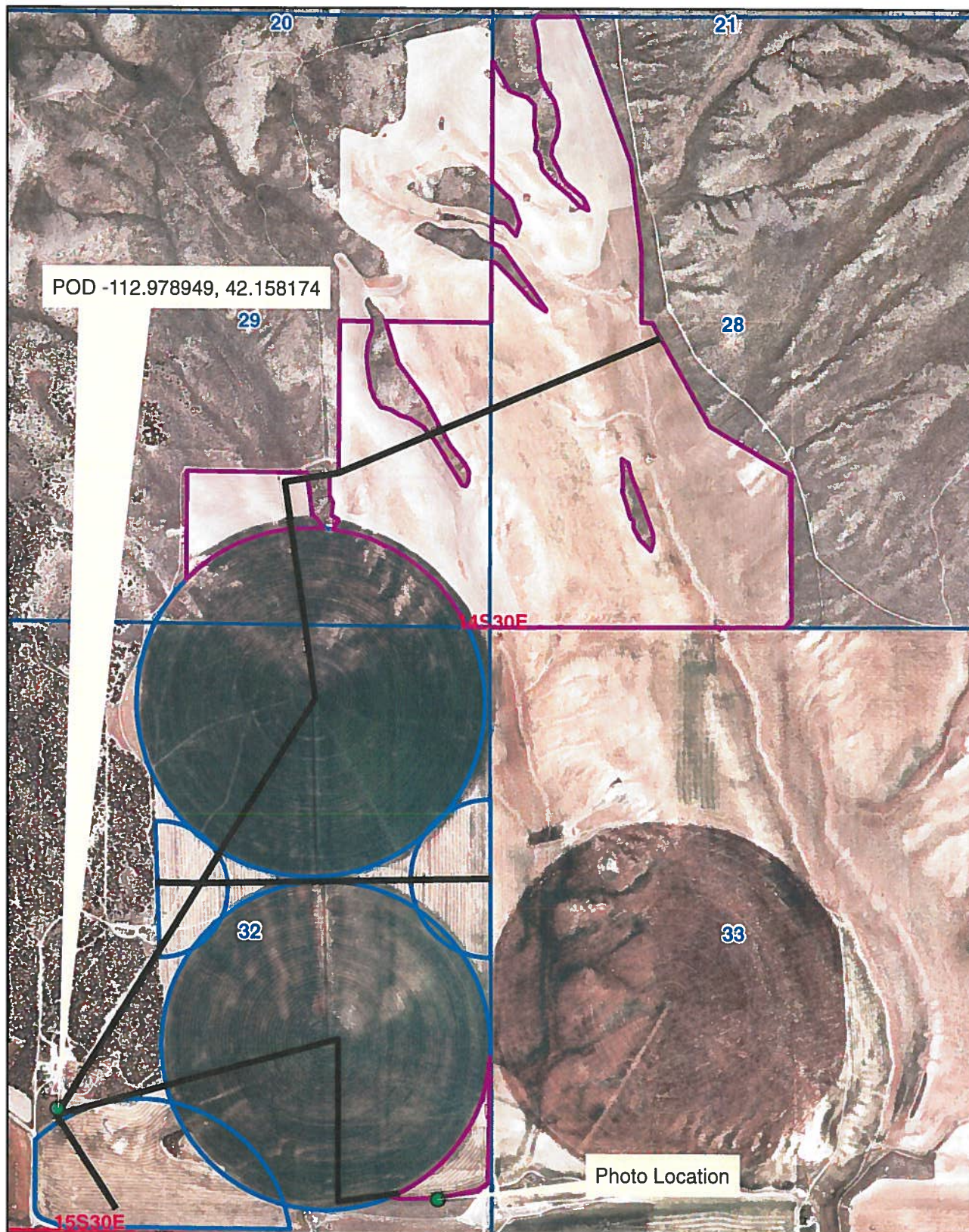
Reviewer _____ Date _____



17-7154: Field Exam - June 5, 2013



- Place of Use
- Township/Range
- Sections
- QQ



17-7154: Field Exam - June 5, 2013

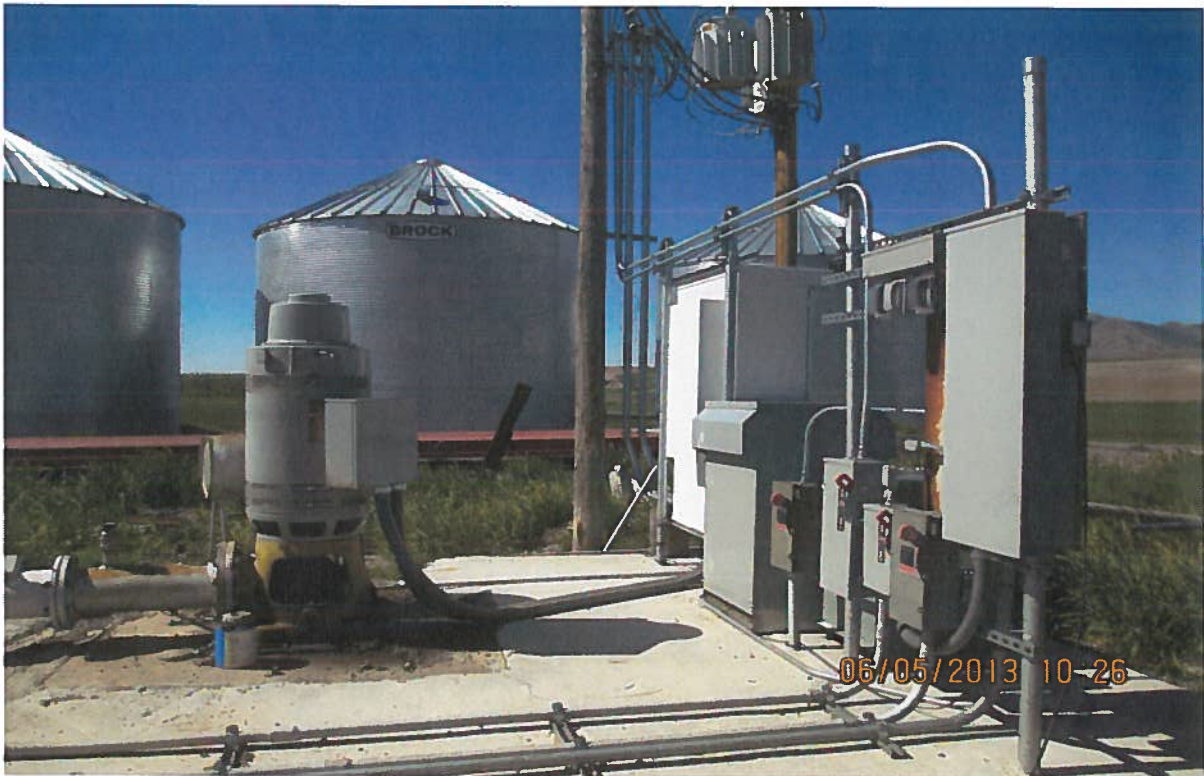


- Distribution System
- Handlines
- Pivots
- Township/Range
- Sections

17-7154: Field Exam – June 5, 2013



Electric Panel near well, looking East





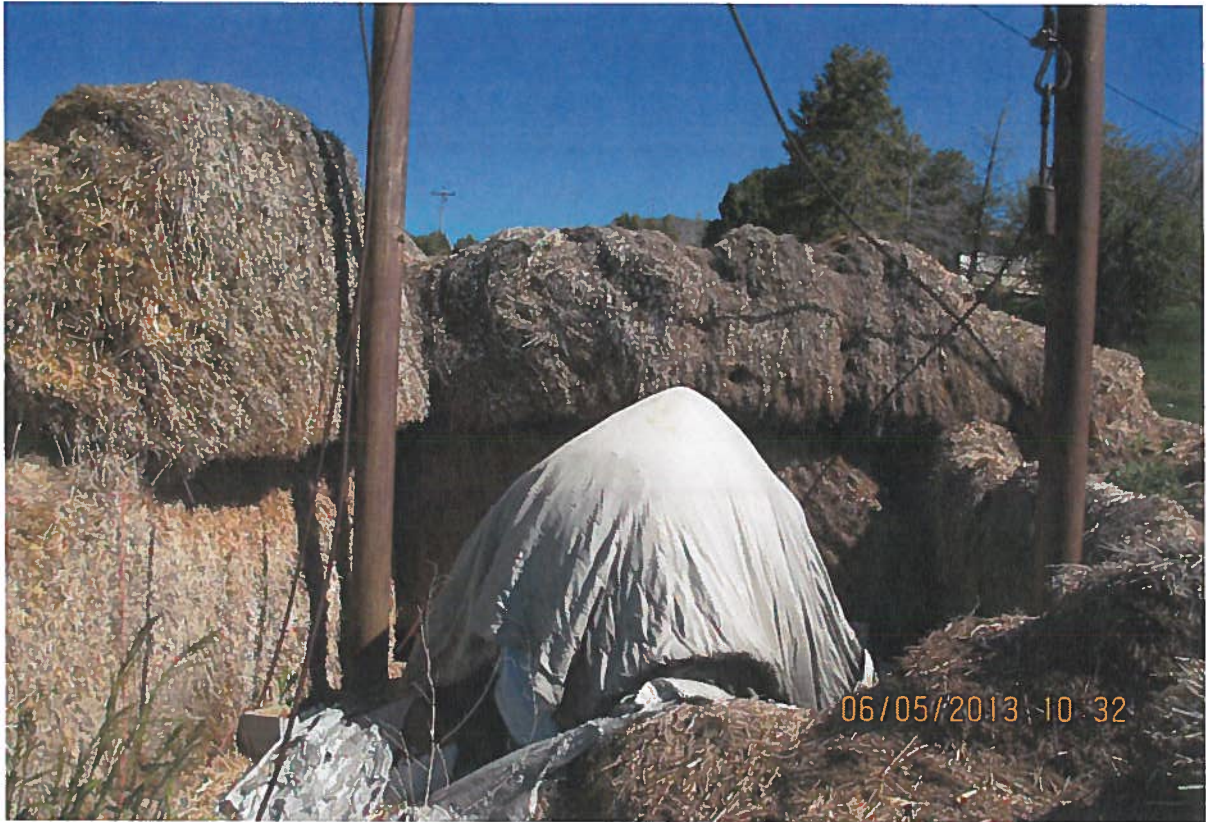
Mainlines off well



Booster pump



Stockwater well, just west of irrigation well, drilled in 1958



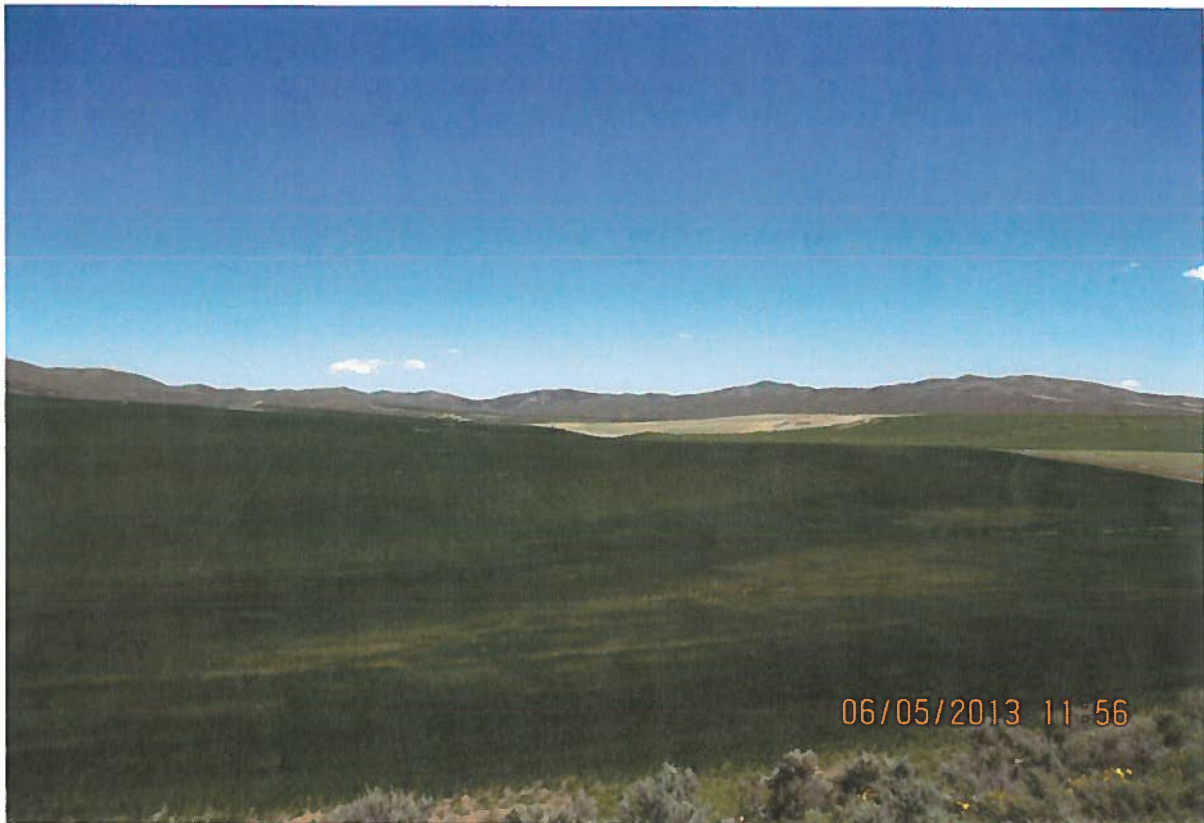
Domestic and Stockwater well, North-West or Irrigation well and North of Stockwater well, Drilled 1976



Place of Use, looking West



Place of Use looking North



Place of Use looking North East

13-06-05 11:08:16
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:09:16
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:10:16
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:11:16
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:12:16
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:13:16
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:14:16
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:15:16
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:16:16
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:17:16
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:18:16

*S. Main line
below
Split*

17-7154

13-06-05 10:43:13
+0.000E+00 ft/s
+0.000E+00 gal/min
0000000 gal +TOTAL
NORMAL

13-06-05 10:44:13
+0.000E+00 ft/s
+0.000E+00 gal/min
0000000 gal +TOTAL
NORMAL

13-06-05 10:45:13
+0.000E+00 ft/s
+0.000E+00 gal/min
0000000 gal +TOTAL
NORMAL

13-06-05 10:46:13
+0.000E+00 ft/s
+0.000E+00 gal/min
0000000 gal +TOTAL
NORMAL

13-06-05 10:47:13
+0.000E+00 ft/s
+0.000E+00 gal/min
0000000 gal +TOTAL
NORMAL

N. Mainline

17-7154

13-06-05 10:48:13
+0.000E+00 ft/s
+0.000E+00 gal/min
0000000 gal +TOTAL
NORMAL

13-06-05 10:49:13
+0.000E+00 ft/s
+0.000E+00 gal/min
0000000 gal +TOTAL
NORMAL

13-06-05 10:50:13
+0.000E+00 ft/s
+0.000E+00 gal/min
0000000 gal +TOTAL
NORMAL

13-06-05 10:51:13
+0.000E+00 ft/s
+0.000E+00 gal/min
0000000 gal +TOTAL
NORMAL

13-06-05 10:52:13
+0.000E+00 ft/s
+0.000E+00 gal/min
0000000 gal +TOTAL
NORMAL

13-06-05 11:09:59
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:10:59
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:11:59
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:12:59
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

13-06-05 11:13:59
+1.000E+00 ft/s
+1.000E+00 gal/min
0000100 gal +TOTAL
NORMAL

SCANNED
OCT 30 2013