

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8333

Exam Date: 9/18/2012

1. Current Owner: SHARLENE M SMITH And
RONNIE D SMITH
1046 E 2900 S
HAGERMAN ID 83332
(208)837-4790

2. Accompanied by: Ronnie Smith, applicant
Jeanie Robertson, staff

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: TFCC & NSCC Rights
2. Other water rights with the same point of diversion: 36-4176 (Not Claimed), 36-16837

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

GROUND WATER SW1/4NW1/4NE1/4 Sec. 20, Twp 07S, Rge 14E, B.M.
GOODING County

Method of Determination: GPS/Trimble; collected by WMIS - 11/13/2010; tag # A0003712

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>	
07S	14E	20		29.0	36.0		34.0	26.0	21.0										146.0

Total Acres: 146

Method of Determination: 2011 satellite imagery in Arcmap and info from IDWR files from previous field exams and ASCS map. (The 2011 imagery was very similar to what appeared to be irrigated during those earlier years.)

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>
A0003712____	Aurora_	75_	7070949_____	Newman____	S1246512____
(Booster)_____	Goulds_	20_	M228410_____	GE____	SK256JL2535_

*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</u>	<u>Size</u>	<u>Calib. Date</u>
Panametrics	Polysonic		PT878	277960	6 in, 10 in	3/2012

2. Measurements: site #1 (on 6 inch section to hand lines) – 225.4 gpm

site #2 (on 10 inch section by pivot and hand lines) – 1079.8 gpm

225.4 gpm + 1079.8 gpm = 1305.2 gpm divided by 448.83 gpm/cfs = **2.91 cfs****E. FLOW CALCULATIONS**☒ Additional Computation Sheets Attached

Measured Method:

146 acres X 0.02 cfs/acre = 2.92 cfs

Measurement of 2.91 cfs so allow 2.91 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 146 \text{ ac} \times 4 \text{ AF/ac} = 584 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2.91 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 1419.9 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\underline{584.0 \text{ AF}}}$$

G. NARRATIVE/REMARKS/COMMENTS

After making an appointment with the applicant, Ronnie Smith, fellow IDWR Agent, Jeanie Robertson, and myself met him at the well on September 18, 2012 to measure it. There was too much turbulence to get a reading at the well head so we took a measurement where the 6 inch line diverted off to some hand lines and another on the 10 inch line going to the pivot and some other handlines. After the 9/18/12 measurement the permit holder requested an additional measurement. On 10/2/12, while in the area, I conducted the new measurement and obtained the rates indicated in section D above. Notes in the file indicated Gary Spackman had previously visited the property in 1995 and Jim Stanton in 1998. The acres from the undated ASCS map in the file and the system diagrams by Spackman (1995) and Stanton (from 1998) seem to indicate that approximately the same acres were irrigated as in the 2004, 2009 and 2011 aerial photos. This well has been used off and on over the years and had been placed in the NSGWB conversion project according to WMIS records. Canal Shares are used on the property for the most part so the well is considered supplemental. (Right 36-16837 is also now diverted from this well according to approved transfer 76897, 3/11/2011. It has not been connected to the system yet, however, and the acres being irrigated when we were there did not include the acres from the transferred right.)

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

H. RECOMMENDATIONS**1. Recommended Amounts**

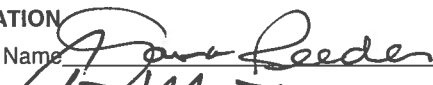
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	2.91 CFS	584.0 AF
	<u>Totals:</u>	2.91CFS	584.0 AF

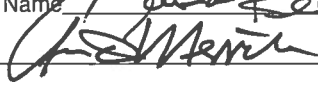
2. Recommended Amendments

☒ _X_ 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  Date 10/19/12

Reviewer  Date 10/19/12

Log Name	Smith.LOG
Log Title	6CS.LOG
Start Time	10/2/2012 12:11
End Time	10/2/2012 12:22
Records	3
Interval	60
Error Flags	8208
Cyclic Flags	2

Item #	Label	Symbol	UnitType	Channel
0	Velocity	ft/s	578	0
1	Volume	gal/m	846	0
2	(+)Total	gal	1160	0

Date/Time	Velocity (ft/s)	Volume (gal/m)	(+)Total (gal)	Error #
10/2/2012 12:11:05	2.339934066	221.0430872	28899.56257	0
10/2/2012 12:12:07	2.356733227	222.6300286	29123.42885	0
10/2/2012 12:13:05	2.404551242	227.1471822	29349.30703	0
10/2/2012 12:14:06	2.395933592	226.3331115	29579.85898	0
10/2/2012 12:15:06	2.395938294	226.3335556	29790.32148	0
10/2/2012 12:16:05	2.367978113	223.6922826	30026.55161	0
10/2/2012 12:17:05	2.344064454	221.4332664	30246.79784	0
10/2/2012 12:18:05	2.375763856	224.4277668	30473.21614	0
10/2/2012 12:19:05	2.414212527	228.0598405	30695.17508	0
10/2/2012 12:20:06	2.338785959	220.9346306	30917.68793	0
10/2/2012 12:21:06	2.329094552	220.0191268	31153.57624	0

225.401367

225.4 GPM

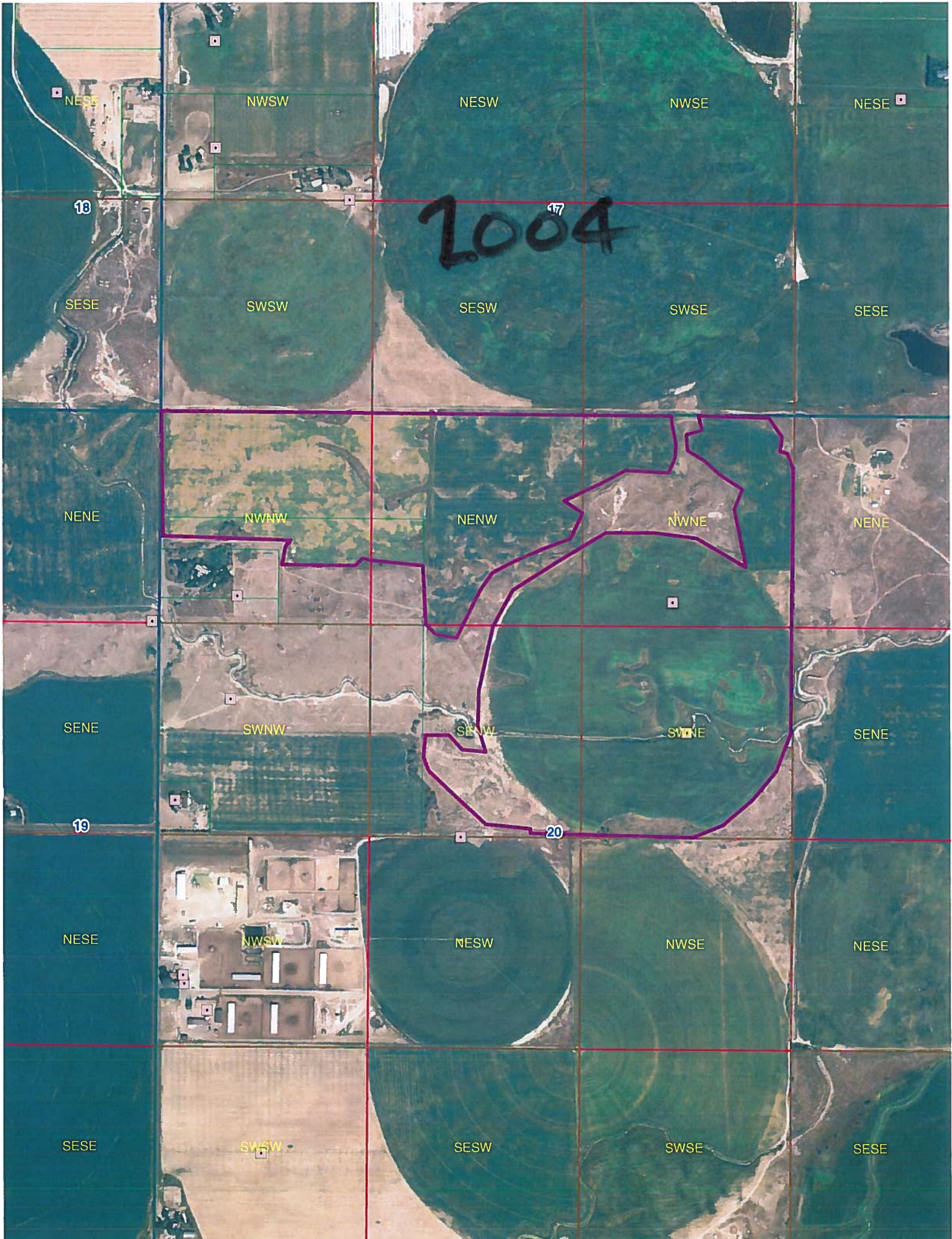
Log Name	Smith.LOG
Log Title	10-PVC.LOG
Start Time	10/2/2012 11:42
End Time	10/2/2012 11:53
Records	3
Interval	60
Error Flags	8208
Cyclic Flags	2

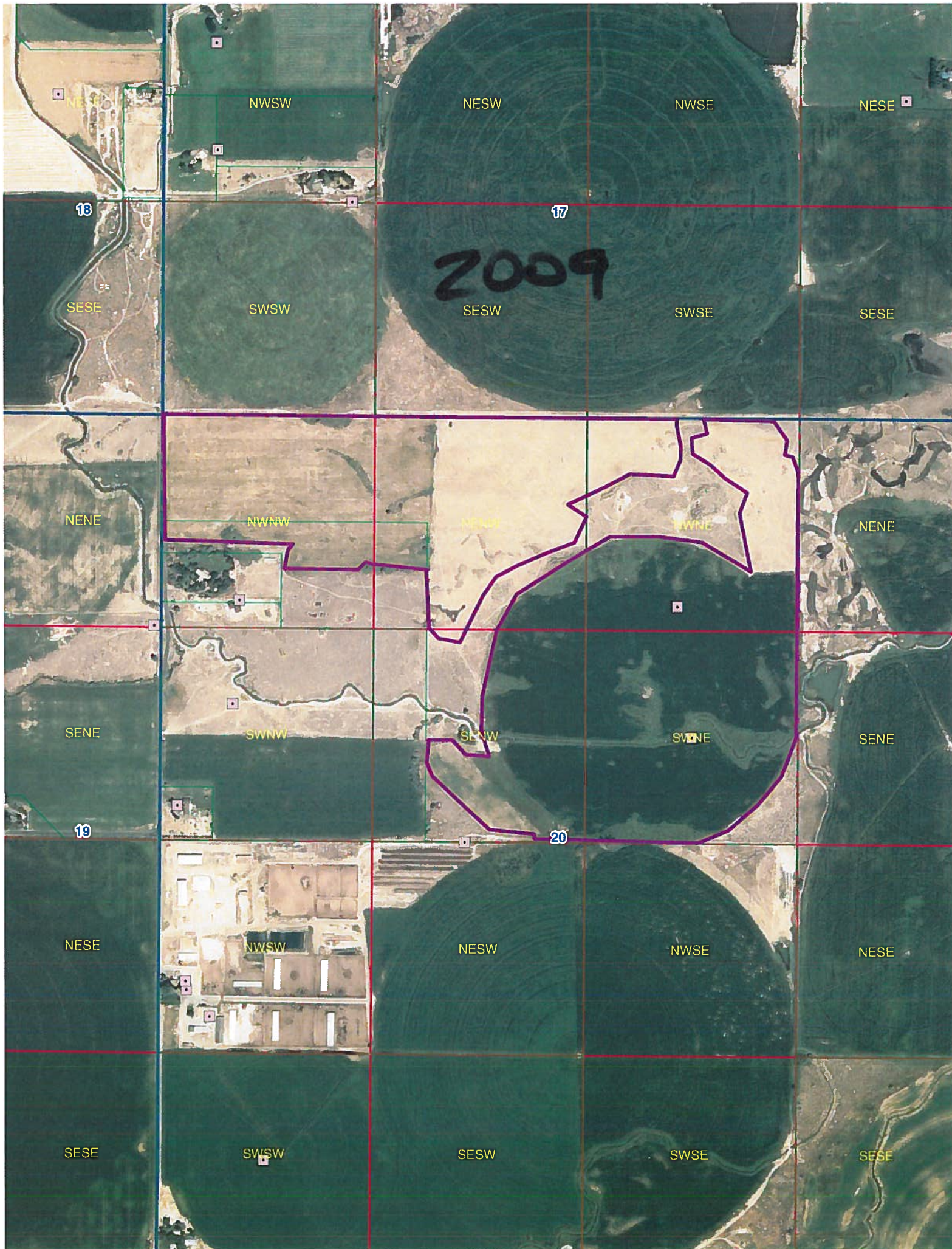
Item #	Label	Symbol	UnitType
0	Velocity	ft/s	578
1	Volume	gal/m	846
2 (+)	Total	gal	1160

10/2/2012 11:42:11	4.764569099	1092.007769	15703.97316
10/2/2012 11:43:12	4.740479268	1086.486538	16819.29353
10/2/2012 11:44:11	4.650309204	1065.820155	17869.44899
10/2/2012 11:45:12	4.607366723	1055.978022	18986.70989
10/2/2012 11:46:11	4.705363285	1078.438187	20025.51567
10/2/2012 11:47:12	4.73177335	1084.4912	21133.43592
10/2/2012 11:48:11	4.701997156	1077.666693	22178.40693
10/2/2012 11:49:12	4.773069141	1093.955922	23297.89926
10/2/2012 11:50:11	4.693309234	1075.675478	24342.28005
10/2/2012 11:51:12	4.677933493	1072.15146	25458.09571
10/2/2012 11:52:13	4.641429386	1063.78496	26502.37858

1079.840543

1079.8 GPM







36-8333

well + measurement site #1
6"

9-18-12



36-8333

measurement site #2
10"



Well, Motor, Pump, Booster



Pivot & P/U Looking SW (Well Under Pivot)

36-08333

9-16-98

JE Stanton



P/U Near County Road (Looking south)



Mainline Running N-S Along 40 Line

36-08333
11-13-98
JE Stanton



Green Area North of Pivot Has Solid Sets/Handlines

36-08333

9-16-98

JE Stanton



Pond For Canal Water, Pump Inlet



Pump For Canal Shares

36-08333
11-13-98
JE Stanton



Mainline Running West From Pivot Center

36-08333
9-16-98
JE Stanton



Area West of Pivot Claimed As Irrigated



Area West of Pivot Not Claimed As Irrigated

36-08333
11-13-98
JE Stanton