

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-08060
Exam Date: 5/31/2017

1. Current Owner:
WILLIAM NECKELS PO BOX 2 MIDVALE ID 83645

2. Accompanied by: "Bill" Neckels
Phone No:
Address:
Relationship to Permit Holder:

3. **SOURCE:**
GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 67-14757
2. Other water rights with the same point-of-diversion: None.

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

GROUND WATER NW¼SE¼ Sec. 1, Twp 12N, Rge 03W, B.M. WASHINGTON County

Method of Determination: GPS collected on site: 44d 24.266, -116d 38.348. Point compared to digital PLSS boundary map.
10 acre tract removed since not a spring source.

2. PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12N	03W	1														X	X		

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	
12N	03W	1														40.0			40.0

Total Acres: 40

Method of Determination: ArcMap tools used to measure irrigated land area. Stockwater trough visible from aerial imagery appears to be located on 40 acre tract boundary.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

 X Indicate weir size/pipe as applicable.

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

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

 X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
"Old Well"		5			

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: Measurement not collected from stockwater well.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 60-100 ft.

psi = 40

hp = 5

See attached theoretical sheet.

Theoretical = 0.16 cfs

Permit	0.10 cfs
B.U. Standard Allowance	0.17 cfs (irrigation + stockwater)
B. U. Proof Fee	\$50 → 0.01 to 0.20 cfs
Measurement or Theoretical Rate	0.16 cfs
License Recommendation	0.10 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5 * 4.0 = 20 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 * 231 * 1.9835 = 36.7$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 20 \text{ af}$$

2. Volume Calculations for Other Uses:

$$12 \text{ gpd / head} * 12 \text{ head} = 144 \text{ gpd} = 0.2 \text{ af / yr}$$

G. NARRATIVE/REMARKS/COMMENTS

The field exam was conducted by agent Patrick Kelly and was accompanied by Bill Neckels on May 31, 2017. An assignment of permit was received a total of 3 times. In 2013, Mr. Neckels filed the assignment himself with Northwest Farm Credit Services in an attempt to place the permit in both parties name. Since this was not submitted by the permit owner, it was returned. Shortly after, the permit owner at the time submitted an assignment to place the permit solely in the name of Mr. Neckels. The Northwest Farm Credit Services were not included in this assignment, but someone at the department has added them as a current owner. Since they were not included in the appropriate assignment, I have change the credit service as a Security Interest.

Bill chauffeured me about the property. The current irrigation system uses a pivot system which Mr. Neckels said is the only irrigation use he is currently using. Since the development includes 40 acres during the beneficial use period, I am recommending a 40 acre POU. Digital PLSS boundaries appear to have shifted when compared to aerial photography. This does not justify an amendment to the permit.

Mr. Neckels runs 2 wells on the site. The original well was drilled for George Mitchell in 1977 and now only supplies stockwater. A new well (D0070352) was drilled in 2015 for the irrigation use. Mr. Neckels stated that the old well did not support the pivot system very well and could hardly produce a significant amount of water for an extended period of time. However, 2004 imagery suggests an area greater than 5 acres was developed, and a pivot appears to have been installed sometime around 2011. Since the new well wasn't drilled until 2015, it is clear that the 5 acre limit right was fully developed from the old well.

67-8060 and 67-14757 will carry a combined use limit of 40 acres.

The well log was correlated in ArcMap to match the GPS point collected on site.

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 10/31	0.08 CFS	20.0 AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.2 AF
	<u>Totals:</u>	0.10 CFS	20.2 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 ☒ None

I. AUTHENTICATION

Field Examiner's Name Patrick Kelly Date 5-31-2017

Reviewer _____ Date _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 67-8060
 Reviewer: Patrick Kelly
 Date of Review: 5/31/2017

P/D No.:	Scenario 1	Scenario 2	Scenario 3
PUMP HORSEPOWER	5	5	5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	60	80	200
DISCHARGE PRESSURE	40	40	40
RATE OF FLOW (cfs)	0.20	0.18	0.11 0.16

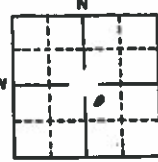
The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

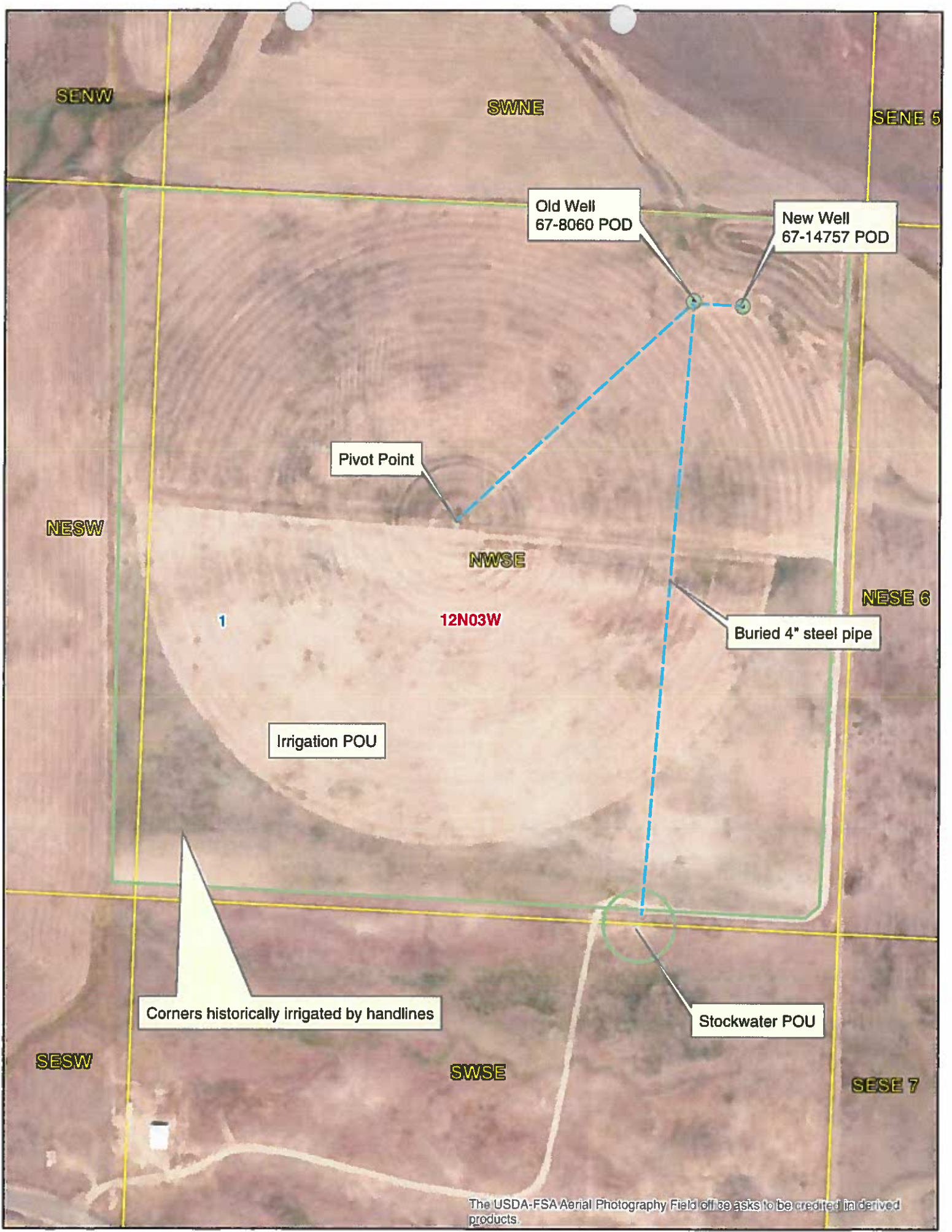
Examiners Notes:

Property owner suggests a 5 hp submersible pump installed on the system. A range of pumping levels were estimated after referencing the well log. The well was drilled to 282 feet, but only cased to 106 ft. It was perforated from 22-85 ft. The pump is likely no deeper than 106 ft. Discharge pressure of 40 psi can be expected from open hose. Theoretical average flow rate is 0.16 cfs.

**USE TYPEWRITER OR
BALLPOINT PEN**

1. WELL OWNER Name <u>Hon Mitchell</u> Address <u>Mitchell</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>15</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ °F. Quality _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug																																																									
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Other <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Drawdown</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr> <td align="center"><u>150</u></td> <td align="center"><u>282</u></td> <td align="center"><u>2</u></td> </tr> <tr> <td align="right" colspan="3">40611</td> </tr> </tbody> </table>	Discharge G.P.M.	Drawdown	Hours Pumped	<u>150</u>	<u>282</u>	<u>2</u>	40611																																																		
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Other (specify type) ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection	9. LITHOLOGIC LOG <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Hole Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th rowspan="2">Water Yes No</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td align="center"><u>18</u></td> <td align="center"><u>0</u></td> <td align="center"><u>3</u></td> <td><u>top soil</u></td> <td></td> </tr> <tr> <td align="center"><u>18</u></td> <td align="center"><u>3</u></td> <td align="center"><u>14</u></td> <td><u>Brown clay</u></td> <td></td> </tr> <tr> <td align="center"><u>18</u></td> <td align="center"><u>14</u></td> <td align="center"><u>28</u></td> <td><u>Blue clay</u></td> <td></td> </tr> <tr> <td align="center"><u>18</u></td> <td align="center"><u>28</u></td> <td align="center"><u>31</u></td> <td><u>Rd gravel & sand</u></td> <td></td> </tr> <tr> <td align="center"><u>18</u></td> <td align="center"><u>31</u></td> <td align="center"><u>36</u></td> <td><u>Blue clay</u></td> <td></td> </tr> <tr> <td align="center"><u>18</u></td> <td align="center"><u>36</u></td> <td align="center"><u>75</u></td> <td><u>Brown clay</u></td> <td></td> </tr> <tr> <td align="center"><u>18</u></td> <td align="center"><u>75</u></td> <td align="center"><u>104</u></td> <td><u>Blue clay</u></td> <td></td> </tr> <tr> <td align="center"><u>18</u></td> <td align="center"><u>104</u></td> <td align="center"><u>106</u></td> <td><u>Blue clay</u></td> <td></td> </tr> <tr> <td align="center"><u>8</u></td> <td align="center"><u>106</u></td> <td align="center"><u>120</u></td> <td><u>Black Rock</u></td> <td></td> </tr> <tr> <td align="center"><u>6</u></td> <td align="center"><u>120</u></td> <td align="center"><u>282</u></td> <td><u>Black rock</u></td> <td></td> </tr> </tbody> </table>	Hole Diam.	Depth		Material	Water Yes No	From	To	<u>18</u>	<u>0</u>	<u>3</u>	<u>top soil</u>		<u>18</u>	<u>3</u>	<u>14</u>	<u>Brown clay</u>		<u>18</u>	<u>14</u>	<u>28</u>	<u>Blue clay</u>		<u>18</u>	<u>28</u>	<u>31</u>	<u>Rd gravel & sand</u>		<u>18</u>	<u>31</u>	<u>36</u>	<u>Blue clay</u>		<u>18</u>	<u>36</u>	<u>75</u>	<u>Brown clay</u>		<u>18</u>	<u>75</u>	<u>104</u>	<u>Blue clay</u>		<u>18</u>	<u>104</u>	<u>106</u>	<u>Blue clay</u>		<u>8</u>	<u>106</u>	<u>120</u>	<u>Black Rock</u>		<u>6</u>	<u>120</u>	<u>282</u>	<u>Black rock</u>	
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4. METHOD DRILLED ☐ Cable ☒ Rotary ☐ Dug ☐ Other																																																										
5. WELL CONSTRUCTION Diameter of hole <u>6-8-12</u> inches Total depth <u>282</u> feet Casing schedule: ☒ Steel ☐ Concrete <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td align="center"><u>250</u> inches</td> <td align="center"><u>12</u> inches</td> <td align="center"><u>1</u> foot</td> <td align="center"><u>106</u> feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☒ Yes ☐ No How perforated? ☒ Factory ☐ Knife ☐ Torch Size of perforation <u>1/8</u> inches by <u>3</u> inches <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td align="center"><u>1020</u> perforations</td> <td align="center"><u>22</u> feet</td> <td align="center"><u>85</u> feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☒ Yes ☐ No Size of gravel _____ Placed from <u>18</u> feet to <u>104</u> feet Surface seal depth <u>18</u> Material used in seal: ☐ Cement grout ☒ Puddling clay ☐ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temporary surface casing ☒ Overbore to seal depth	Thickness	Diameter	From	To	<u>250</u> inches	<u>12</u> inches	<u>1</u> foot	<u>106</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	<u>1020</u> perforations	<u>22</u> feet	<u>85</u> feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																						
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6. LOCATION OF WELL Sketch map location must agree with written location. <u>67</u>  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Nashington</u> <u>NW</u> % <u>SE</u> % Sec. <u>1</u>, T. <u>12</u> N., R. <u>3</u> E/W	10. Work started <u>8-22-77</u> finished <u>9-28-77</u> 11. DRILLERS CERTIFICATION Firm Name <u>Dallas Drilling</u> Firm No. <u>224</u> Address <u>Pagette</u> Date <u>9-28-77</u> Signed by (Firm Official) <u>[Signature]</u> and <u>[Signature]</u> (Operator)																																																									

USE ADDITIONAL SHEETS IF NECESSARY – FORWARD THE WHITE COPY TO THE DEPARTMENT



SENW

SWNE

SENE 5

Old Well
67-8060 POD

New Well
67-14757 POD

Pivot Point

NESW

NWSE

12N03W

NESE 6

Buried 4" steel pipe

Irrigation POU

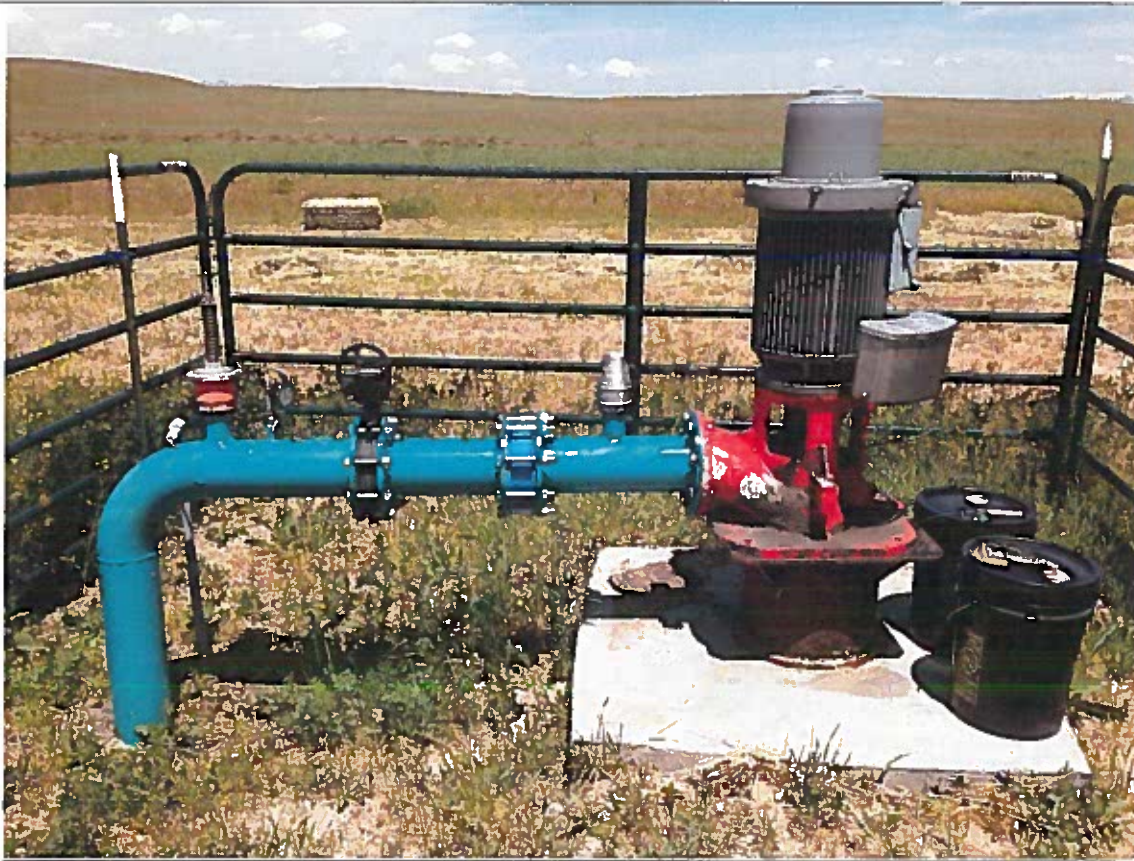
Corners historically irrigated by handlines

SESW

SWSE

SESE 7

Stockwater POU



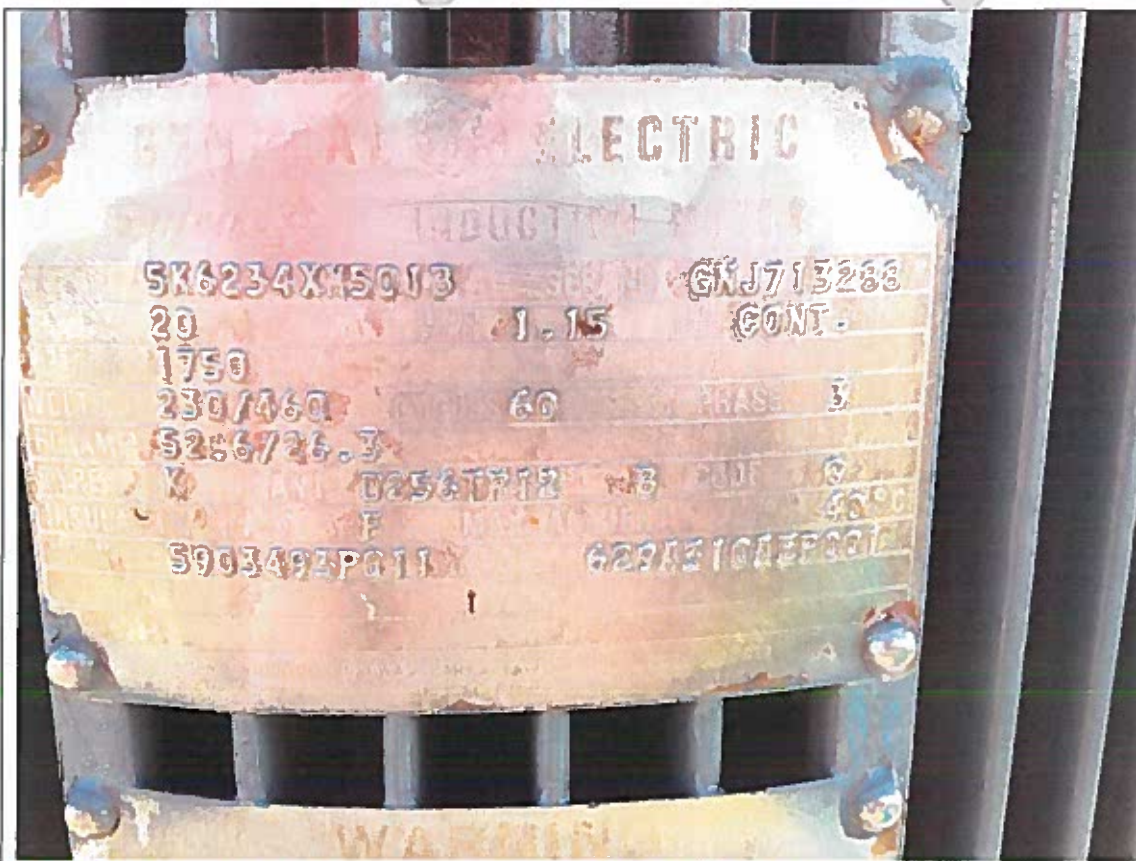
"New Well"

44d 24.265
-116d 38.327

Well is used to
deliver water to pivot
system.



New Well Tag:
D0070362



New Well Motor Plate.

GE 20 hp

Model:
5K6234XM501B

Serial:
GNJ713288

Phase: 3



"Old Well"

44d 24.266
-116d 38.348

No well tag or pump info available.

Drilled 1977.

Water from new well (blue pipe) enters system at old well site and is delivered to pivot system at the right. Old well services stock water primarily through pipe on left.

WISHNW-21202

PRECIPITATION CHART

JUNE 11, 2010

DEALER - AGRI LINES IRRIGATION

IRRIGATOR - JEFF MUSSER

TOTAL LENGTH PIPE = 602.20
 GPM UNDER PIPE = 100.88
 ACRES UNDER PIPE = 26.15
 RANGE OF ENDGUN = .00
 GPM OF ENDGUN = .00
 ACRES UNDER ENDGUN = .00

SYSTEM PRESSURE = 40 PSI
 TOTAL GPM = 100.88

MOTOR SIZE (HP) = 1/8
 LOADED MOTOR RPM = 1200
 CENTER GEAR BOX RATIO = 45
 WHEEL GEAR BOX RATIO = 50
 TIRE SIZE = 12 X 26
 LAST TOWER SPEED (FPM) = 6.20

PRECIPITATION BASED			1/8 TIMER BASED		
PRECIPITATION INCHES	1/8 TIMER SETTING	TIME HOURS	1/8 TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.08	100.00	9.83 - 590 min	100.00	.08	9.83 - 590 min
.10	83.78	11.73	90.00	.09	10.92
.20	41.89	23.47	80.00	.10	12.29
.25	33.51	29.33	70.00	.12	14.04
.30	27.93	35.20	60.00	.14	16.38
.40	20.94	46.93	50.00	.17	19.66
.50	16.74	59.67	45.00	.19	21.84
.60	13.96	70.40	40.00	.21	24.58
.70	11.97	82.14	35.00	.24	28.09
.75	11.17	88.00	30.00	.28	32.77
.80	10.47	93.87	25.00	.34	39.32
.90	9.31	105.60	20.00	.42	49.15
1.00	8.38	117.34	15.00	.56	63.53
1.25	6.70	146.67	10.00	.84	98.30
1.50	5.59	176.01	5.00	1.68	196.60

CAUTION: The relationship between precipitation rate, timer setting, and hours per revolution provided above are theoretical numbers based on the data list at the top of the page. Actual precipitation rates may vary due to the following field and machine conditions: wind drift; evaporation; tire slippage; tire loaded radius; drive train efficiency; elevation changes; soil type. Due to these varying field and machine conditions the above chart should be used as a guide only.

Precipitation Chart

Total length pipe:
602.2

GPM under pipe:
100.88

Acres under pipe:
26.15

System pressure:
40 psi

AGRI LINES IRRIGATION
 115 NORTH SECOND
 PARMA, IDAHO 83660

JUNE 11, 2010
 WISHNW-21202
 JEFF MUSSER

2010 LINDSAY GREENFIELD 800
 NELSON R3000 ROTATORS
 NELSON 15 & 20 PSI REGULATORS
 75 I.D. FLEXIBLE HOSE
 NO ENDGUN

Rotation time at 100% = 9.83 Hours Or 590 minutes

100 40 PSI

Page 1

Installation Chart

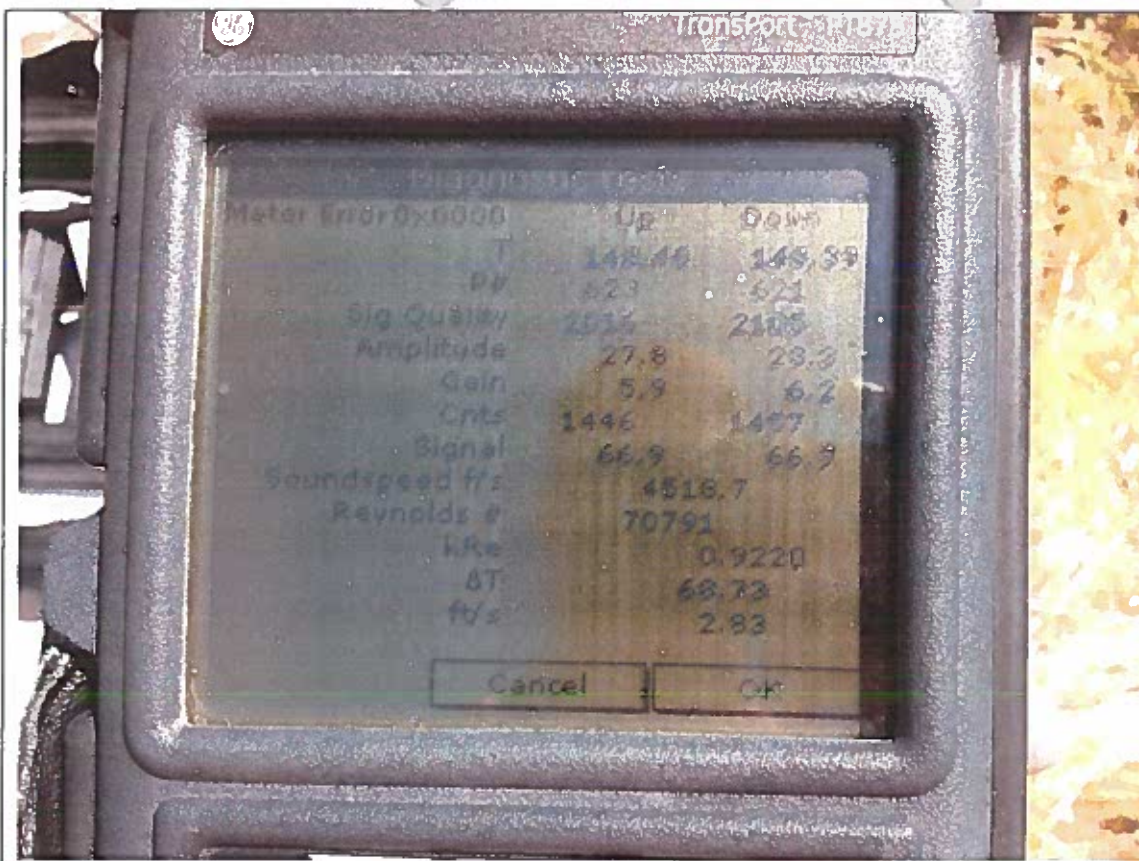
Out #	Drop Len	Spk h	Noz Size	Reg	Out #	Drop Len	Spk h	Noz Size	Reg	Out #	Drop Len	Spk h	Noz Size	Reg
1	PLUG				1	PLUG				23	40	21	20	20LF
2	PLUG				2	40	14	14	20LF	24	40	21	20	20LF
3	PLUG				3	PLUG				25	40	21	20	20LF
4	PLUG				4	PLUG				26	40	21	20	20LF
5	40	1	14	15LF	5	40	17	16	20LF	27	40	21	20	20LF
6	PLUG				6	PLUG				28	40	21	20	20LF
7	PLUG				7	PLUG				29	40	21	20	20LF
8	40	2	14	15LF	8	40	18	16	20LF	30	40	21	20	20LF
9	PLUG				9	PLUG				31	40	21	20	20LF
10	PLUG				10	PLUG				32	40	21	20	20LF
11	40	3	14	15LF	11	40	19	17	20LF	33	40	21	20	20LF
12	PLUG				12	PLUG				34	40	21	20	20LF
13	PLUG				13	PLUG				35	40	21	20	20LF
14	40	4	14	15LF	14	40	20	17	20LF	36	40	21	20	20LF
15	PLUG				15	PLUG				37	40	21	20	20LF
16	PLUG				16	PLUG				38	40	21	20	20LF
17	40	5	14	15LF	17	40	21	18	20LF	39	40	21	20	20LF
18	PLUG				18	PLUG				40	40	21	20	20LF
19	PLUG				19	PLUG				41	40	21	20	20LF
20	40	6	14	15LF	20	40	22	18	20LF	42	40	21	20	20LF
21	PLUG				21	PLUG				43	40	21	20	20LF
22	PLUG				22	PLUG				44	40	21	20	20LF
23	40	7	14	15LF	23	40	23	19	20LF	45	40	21	20	20LF
24	PLUG				24	PLUG				46	40	21	20	20LF
25	PLUG				25	PLUG				47	40	21	20	20LF
26	40	8	14	15LF	26	40	24	19	20LF	48	40	21	20	20LF
27	PLUG				27	PLUG				49	40	21	20	20LF
28	PLUG				28	PLUG				50	40	21	20	20LF
29	40	9	14	15LF	29	40	25	18	20LF	51	40	21	20	20LF
30	PLUG				30	PLUG				52	40	21	20	20LF
31	PLUG				31	PLUG				53	40	21	20	20LF
32	40	10	14	15LF	32	40	26	20	20LF	54	40	21	20	20LF
33	PLUG				33	PLUG				55	40	21	20	20LF
34	PLUG				34	PLUG				56	40	21	20	20LF
35	40	11	14	15LF	35	40	27	20	20LF	57	40	21	20	20LF
36	PLUG				36	PLUG				58	40	21	20	20LF
37	PLUG				37	PLUG				59	40	21	20	20LF
38	40	12	14	20LF	38	40	28	21	20LF	60	40	21	20	20LF
39	PLUG				39	PLUG				61	40	21	20	20LF
40	PLUG				40	PLUG				62	40	21	20	20LF
41	40	13	14	20LF	41	40	29	21	20LF	63	40	21	20	20LF
42	PLUG				42	PLUG				64	40	21	20	20LF
43	PLUG				43	PLUG				65	40	21	20	20LF
44	40	14	15	20LF	44	40	30	21	20LF	66	40	21	20	20LF
45	PLUG				45	PLUG				67	40	21	20	20LF
46	PLUG				46	PLUG				68	40	21	20	20LF
47	40	15	15	20LF	47	40	31	21	20LF	69	40	21	20	20LF
48	PLUG				48	PLUG				70	40	21	20	20LF
49	PLUG				49	PLUG				71	40	21	20	20LF
50	40	16	15	20LF	50	40	32	21	20LF	72	40	21	20	20LF
51	PLUG				51	PLUG				73	40	21	20	20LF
52	PLUG				52	PLUG				74	40	21	20	20LF
53	40	17	15	20LF	53	40	33	21	20LF	75	40	21	20	20LF
54	PLUG				54	PLUG				76	40	21	20	20LF
55	PLUG				55	PLUG				77	40	21	20	20LF
56	40	18	15	20LF	56	40	34	21	20LF	78	40	21	20	20LF
57	PLUG				57	PLUG				79	40	21	20	20LF
58	PLUG				58	PLUG				80	40	21	20	20LF
59	40	19	15	20LF	59	40	35	21	20LF	81	40	21	20	20LF
60	PLUG				60	PLUG				82	40	21	20	20LF
61	PLUG				61	PLUG				83	40	21	20	20LF
62	40	20	15	20LF	62	40	36	21	20LF	84	40	21	20	20LF
63	PLUG				63	PLUG				85	40	21	20	20LF
64	PLUG				64	PLUG				86	40	21	20	20LF
65	40	21	15	20LF	65	40	37	21	20LF	87	40	21	20	20LF
66	PLUG				66	PLUG				88	40	21	20	20LF
67	PLUG				67	PLUG				89	40	21	20	20LF
68	40	22	15	20LF	68	40	38	21	20LF	90	40	21	20	20LF
69	PLUG				69	PLUG				91	40	21	20	20LF
70	PLUG				70	PLUG				92	40	21	20	20LF
71	40	23	15	20LF	71	40	39	21	20LF	93	40	21	20	20LF
72	PLUG				72	PLUG				94	40	21	20	20LF
73	PLUG				73	PLUG				95	40	21	20	20LF
74	40	24	15	20LF	74	40	40	21	20LF	96	40	21	20	20LF
75	PLUG				75	PLUG				97	40	21	20	20LF
76	PLUG				76	PLUG				98	40	21	20	20LF
77	40	25	15	20LF	77	40	41	21	20LF	99	40	21	20	20LF
78	PLUG				78	PLUG				100	40	21	20	20LF
79	PLUG				79	PLUG								
80	40	26	15	20LF	80	40	42	21	20LF					
81	PLUG				81	PLUG								
82	PLUG				82	PLUG								
83	40	27	15	20LF	83	40	43	21	20LF					
84	PLUG				84	PLUG								
85	PLUG				85	PLUG								
86	40	28	15	20LF	86	40	44	21	20LF					
87	PLUG				87	PLUG								
88	PLUG				88	PLUG								
89	40	29	15	20LF	89	40	45	21	20LF					
90	PLUG				90	PLUG								
91	PLUG				91	PLUG								
92	40	30	15	20LF	92	40	46	21	20LF					
93	PLUG				93	PLUG								
94	PLUG				94	PLUG								
95	40	31	15	20LF	95	40	47	21	20LF					
96	PLUG				96	PLUG								
97	PLUG				97	PLUG								
98	40	32	15	20LF	98	40	48	21	20LF					
99	PLUG				99	PLUG								
100	PLUG				100	PLUG								

Installation Chart

Nozzle size range:
14-24

100% Rotation:
9.83 hrs

No end gun



Flow diagnostics:
 P#: 623
 Sig Quality: 2000-2100
 Amplitude: ~28
 Signal: 66.9
 Soundspeed: 4518.7



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 19, 2017

COPY

WILLIAM NECKLES
PO BOX 2
MIDVALE ID 83645

RE: Scheduling Field Exam for Water Right Permit No. 67-8060

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.10 cfs of GROUND WATER for IRRIGATION use**. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty (30) days at (208) 334-2190 to either schedule an examination or submit a relinquishment or assignment form. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Sincerely,

Patrick Kelly
Water Resource Agent, Sr.

Enclosures: Relinquishment of Permit form
Assignment of Permit form
Water Permit Report and Map