

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12262

Exam Date: 7/23/2012

1. Current Owner: BONNIE M PEER
4674 WILLOW CREEK RD
EAGLE ID 83616
(208)939-8668

DENNIS A PEER
4674 WILLOW CREEK RD
EAGLE ID 83616
(208)939-8668
2. Accompanied by: Dennis Peer
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

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

GROUND WATER SE1/4SE1/4 Sec. 29, Twp 05N, Rge 01E, B.M.
ADA County

Method of Determination: Arc Map (Aerial Photo); GPS Latitude N.43°44.256', Longitude W.116°21.384'; Datum – NAD83.

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
05N	01E	29																3.0	3.0

Total Acres: 3

Method of Determination: Arc Map (Aerial Photo)

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>
	Franklin	5		Jacuzzi	(4")

*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>

2. Measurements: No field measurements. Irrigation system operating pressure – 48 psi (gauge).

E. FLOW CALCULATIONS

Measured Method: (Theoretical)

____ Additional Computation Sheets Attached

HP = 5
 Z = 245' (estimated)
 P = 48 psi (gauge)

$$Q(\text{theoretical}) = 8.8 \times 0.7 \times 5/245' + (2.31 \times 48) = 30.8/355.88 = 0.09 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.09 \text{ cfs} < 0.10 \text{ cfs } Q(\text{permit})$$

Right holder irrigates approximately 3.0 acres of horse pasture, lawn, and landscaping, not 5.0 acres as indicated on permit. Based on irrigating 3.0 acres, it appears that the irrigation pumping system can sufficiently irrigate the 3.0 acres of horse pasture, lawn, and landscaping.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.0 \times 4.5 = 13.5 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.09 \times 260 \times 1.9835 = 46.4 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 13.5 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS**PUMPING SYSTEM:**

A 5 hp submersible pump in a 6-inch ground water well diverts water to a pressurized irrigation system for irrigation of approximately 3.0 acres of horse pasture, lawn, and landscaping.

IRRIGATION SYSTEM:

The ground water well discharges water to the horse pasture and lawn pressurized irrigation systems through a 4" PVC main line located south of the ground water well and within the horse pasture. Irrigation feeder lines, 1 1/2" PVC, which 'tee' into the 4" PVC main line, distribute water to sprinkler irrigate the horse pasture, lawn, and landscaping areas. The horse pasture is irrigated by six (6) 1 1/2" PVC feeder lines, with each feeder line operating as a single station. During the heat of the summer, June through September, each pasture station runs for 90 minutes on an alternate day schedule.

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

CONDITION NO. 2: Water bearing zone to be appropriated is 270 to 280 feet. According to the well drillers report, the well is 280 feet deep, which complies with the condition.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.10	&/or	N/A
Beneficial Use Limit	0.09	&/or	N/A
System Measurement	0.09	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.09	&/or	N/A

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	0.090 CFS	13.5 AFA
<u>Totals:</u>		0.090 CFS	13.5 AFA

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

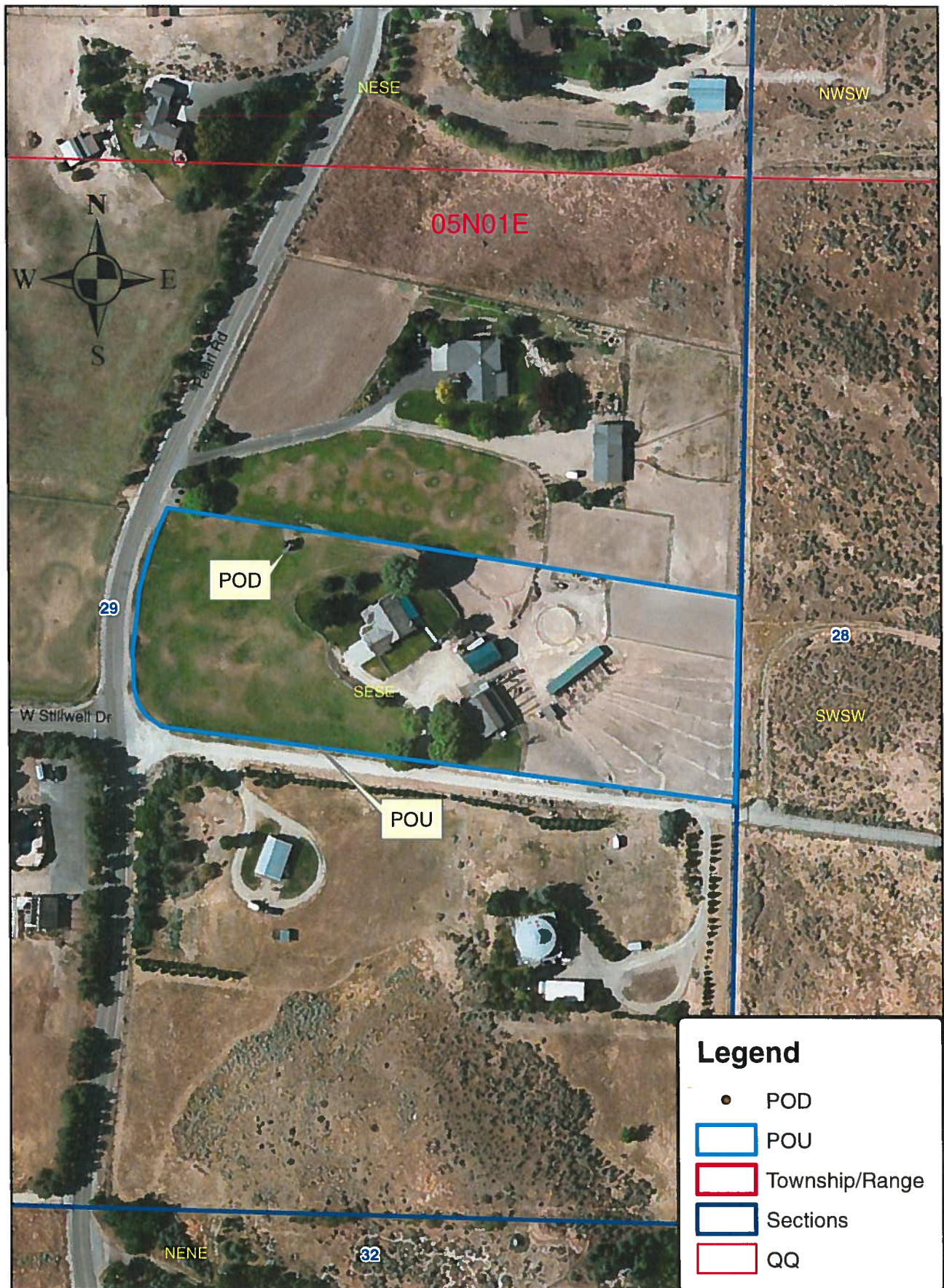
___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

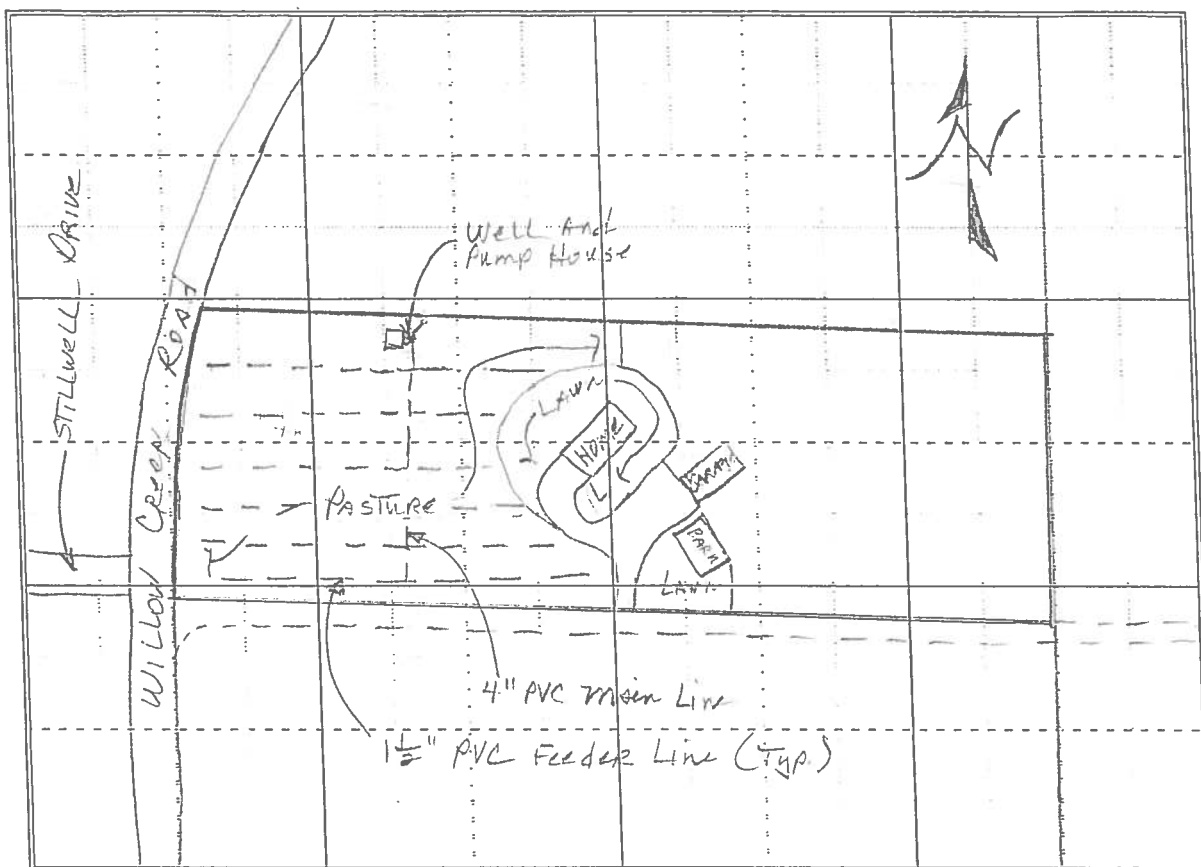
Field Examiner's Name Rick Collingwood Date 10-4-12

Reviewer _____ Date _____

63-12262



3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
- ☒ Aerial photo attached (required for irrigation of 10+ acres)
- ☒ Photo of diversion and system attached

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

RECEIVED

OCT 04 1995

1. WELL OWNER		7. WATER LEVEL																																																																																																																	
Name <u>Westwood Homes (Will Selby)</u> Address <u>P.O. Box 44238</u> <u>Boise 83711</u> Owner's Permit No. _____		Static water level <u>1100</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ of. Quality _____ Describe artesian or temperature zones below _____																																																																																																																	
2. NATURE OF WORK		8. WELL TEST DATA																																																																																																																	
☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		☐ Pump ☐ Baller ☒ Air ☐ Other _____																																																																																																																	
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">50</td> <td></td> <td style="text-align: center;">2405</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Discharge G.P.M.	Pumping Level	Hours Pumped	50		2405																																																																																																										
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☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Bore Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td>9"</td><td>0</td><td>0</td><td>Top Soil</td><td></td><td></td></tr> <tr><td>9"</td><td>0</td><td>8</td><td>Brown Clay</td><td></td><td></td></tr> <tr><td>9"</td><td>8</td><td>30</td><td>Coarse Sand</td><td></td><td></td></tr> <tr><td>9"</td><td>30</td><td>39</td><td>Sandy Clay</td><td></td><td></td></tr> <tr><td>9"</td><td>39</td><td>62</td><td>Brown Clay</td><td></td><td></td></tr> <tr><td>10"</td><td>62</td><td>123</td><td>Brown sandstone - Hard clay</td><td></td><td></td></tr> <tr><td>10"</td><td>123</td><td>130</td><td>Brown Sandy Clay</td><td></td><td></td></tr> <tr><td>10"</td><td>130</td><td>140</td><td>Brown Sand Stone & Hard Clay</td><td></td><td></td></tr> <tr><td>10"</td><td>140</td><td>165</td><td>Brown Sand + Clay</td><td></td><td></td></tr> <tr><td>10"</td><td>165</td><td>183</td><td>Brown Sandy Clay</td><td></td><td></td></tr> <tr><td>10"</td><td>183</td><td>194</td><td>Brown Sandy Clay & Stone</td><td></td><td></td></tr> <tr><td>10"</td><td>194</td><td>196</td><td>Brown Sand</td><td></td><td></td></tr> <tr><td>10"</td><td>196</td><td>199</td><td>Brown Sandy Clay Stone</td><td></td><td></td></tr> <tr><td>10"</td><td>199</td><td>240</td><td>Brown Sand</td><td></td><td></td></tr> <tr><td>10"</td><td>240</td><td>266</td><td>Brown + white sand</td><td></td><td></td></tr> <tr><td>10"</td><td>266</td><td>279</td><td>Brown Clay</td><td></td><td></td></tr> <tr><td>10"</td><td>279</td><td>280</td><td>Brown + white sand</td><td></td><td></td></tr> </tbody> </table>		Bore Diam.	Depth		Material	Water		From	To	Yes	No	9"	0	0	Top Soil			9"	0	8	Brown Clay			9"	8	30	Coarse Sand			9"	30	39	Sandy Clay			9"	39	62	Brown Clay			10"	62	123	Brown sandstone - Hard clay			10"	123	130	Brown Sandy Clay			10"	130	140	Brown Sand Stone & Hard Clay			10"	140	165	Brown Sand + Clay			10"	165	183	Brown Sandy Clay			10"	183	194	Brown Sandy Clay & Stone			10"	194	196	Brown Sand			10"	196	199	Brown Sandy Clay Stone			10"	199	240	Brown Sand			10"	240	266	Brown + white sand			10"	266	279	Brown Clay			10"	279	280	Brown + white sand		
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Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="0" style="width: 100%;"> <tr> <td>Thickness</td> <td>Diameter</td> <td>From</td> <td>To</td> </tr> <tr> <td><u>2.50</u> inches</td> <td><u>6</u> inches</td> <td><u>0</u> feet</td> <td><u>280</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> </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 _____ inches by _____ inches <table border="0" style="width: 100%;"> <tr> <td>Number</td> <td>From</td> <td>To</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ 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> </table> Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Johnson</u> Type <u>Stainless steel</u> Model No. _____ Diameter <u>5</u> Slot size <u>20</u> Set from <u>270</u> feet to <u>280</u> feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☐ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>18'</u> Material used in seal: ☐ Cement grout ☐ Bentonite ☒ Puddling clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent ☐ Weld ☐ Cemented between strata Describe access port _____		Thickness	Diameter	From	To	<u>2.50</u> inches	<u>6</u> inches	<u>0</u> feet	<u>280</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																																																																																		
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6. LOCATION OF WELL		10.																																																																																																																	
Sketch map location <u>must</u> agree with written location. Subdivision Name <u>Stillwell Estates</u> Lot No. _____ Block No. _____ County <u>Ada</u> <u>1/4 SW 1/4 Sec. 28, T. 36 N., R. 1 E., N.</u>		Work started <u>8/8/88</u> finished <u>8/26/88</u>																																																																																																																	
11. DRILLERS CERTIFICATION																																																																																																																			
I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>S.O. S. Well Drilling</u> Firm No. <u>212</u> Address <u>4145 N. Blackcat Rd.</u> Date <u>5/2/89</u> Signed by (Firm Official) <u>[Signature]</u> and (Operator) <u>[Signature]</u>																																																																																																																			

FIELD EXAM PHOTOS

Water Right Permit: 63-12262

Field Exam Date: 7-23-12

PLS: SE1/4, SE1/4 Section 29, T.05N, R.01E.

Field Examiner: RC



Point of Diversion: View westerly of well and pump/control house. The two pressure tanks in the pump/control house are for domestic use in home.



Place of Use: View southwesterly of irrigated horse pasture.