

[illegible]

PLACE OF USE: DOMESTIC

TwpRgeSec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N06W25															X		

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</u>				<u>Pump Serial No. or Discharge</u>		
<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Size</u>	
<u>well</u>	<u>unknown</u>	<u>5</u>	<u>unknown</u>	<u>unknown</u>	<u>unknown</u>	

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u>						
<u>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: None taken

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

1] THEORETICAL CALCULATION – NOT ENOUGH INFORMATION AVAILABLE.

2] 4" pipe – capacity under low flow conditions is 0.44 cfs per IDWR reference

3] well log states well produces 90 gpm which = 0.20 cfs. Recommend this quantity for licensing.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 9 \text{ acres} \times 4.5 \text{ af} = 40.5$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.18 \times 265 \text{ days} \times 1.9835 = 105.1 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 40.5 \text{ af}$$

2. Volume Calculations for Other Uses:

Stockwater :

$$V_{ir} = 32 \text{ head range cattle and horse} \times 12 \text{ gpd} \times 365 \text{ day per year} = 140160 \text{ gpy} / 325850 = 0.43 = 0.4 \text{ af}$$

$$V_{dr} = 0.02 \text{ cfs} \times 365 \text{ days} \times 1.9835 = 14.5 \text{ af}$$

$$\text{Smallest of } V_{ir} \text{ and } V_{dr} = 0.4 \text{ af}$$

Domestic: use standard of 0.6 af for internal use – 1 home

G. NARRATIVE/REMARKS/COMMENTS

Mr. Phifer works in North Dakota and was not present at the exam. His friend and neighbor, Christy Schlegel, who irrigates and waters the stock in his absence, accompanied me on the exam. The permit was issued for 10 acres of irrigation at 0.20 cfs, 0.02 cfs for mixed stock, and 0.02 cfs for internal domestic for one home. There are no overlapping rights. There is a domestic well also, for the home on site.

The point of diversion is a well with a 6 inch diameter. It is fitted with a submersible 5 hp pump. The well casing is obscured by tires stacked around it so no well tag or specs were visible and Mr. Phifer and Christy did not know the specs. He is not irrigating this year because there are problems with the well, but a review of aerial photographs during the development period: 2006, 2009, show the place of use irrigated.

Water is discharged from the well through a 4 inch pipe to a buried 6 inch PVC pipe to risers north and south that divert water to 6 inch diameter gated pipe. The gated pipes were seen the day of the exam at the south end of the place of use, and north of the well. Each section of gated pipe was about 350 'long. Water is also piped to a riser southwest of the house for stockwater, and to supplement the internal domestic use and yard irrigation. There is also a separate domestic well with an IDWR tag # D0047251.

IDWR has 4 well logs for the 2 wells, the original logs, and then logs modifying each well. However, none of the tags identified on the logs are the tag # on the domestic well, so there is an error somewhere. The irrigation well was drilled under a domestic drilling permit, but the log modifying the irrigation well in 2006 identifies it as an irrigation well, and a drilling upgrade fee was paid.

The stockwater is used for a maximum of 16 range cattle and 16 horses. Troughs and horses were present the day of the exam. I recommend the permitted 0.02 cfs for licensing. Volume for stockwater for the 32 head of mixed stock – horse and range cattle – is 0.4 af, the smallest of the V_{ir} and V_{dr} calculations.

For the domestic use, I recommend for licensing 0.02 cfs, the IDWR standard for internal domestic in one home. The yard irrigation will be covered under the irrigation portion of the license. The volume recommended for licensing for the domestic use is 0.6 af, IDWR standard for internal domestic use for one home.

Nine acres were the most irrigated according to aerial photographs taken in the development period, 2006, 2009 and 2011. There is not enough information available to calculate a theoretical flow and Mr. Phifer has no idea when he will be home to try to find that information. The well log states that the well produced 90 gpm. A 4 inch pipe can discharge 0.44 cfs. I recommend the IDWR standard of 0.02 cfs per acres for 9 acres for a total of 0.18 cfs for irrigation. Volume for irrigation recommended to be licensed is 40.5 af, the smaller of the Vir and Vdr calculations.

I recommend for licensing the well log flow of 90 gpm which is 0.20 cfs, which is also the permitted flow. Total volume recommended for licensing is 40.5 af [irrigation] + 0.4 af [stockwater] + 0.6 af [domestic]= 41.5 af

The use for irrigation is not supplemental to surface water. There is no evidence from aerial photographs or the application that this use is supplemental, and according to Mr. Phifer, there has never been surface water used on the property. There is a separate memo about this issue in the licensing file.

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

X02 should be corrected to say 32 head mixed stock.

The supplemental conditions should be removed.

H. RECOMMENDATIONS

1) Permit amount	<u>0.20</u>	cfs
2) Beneficial use limit	<u>0.24</u>	cfs
3) System measurement	<u>0.20</u>	cfs
4) Proof fee amount	<u>0.20</u>	cfs

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	0.180 CFS	40.50 AF
STOCKWATER	01/01 to 12/31	0.020 CFS	0.40 AF
DOMESTIC	01/01 to 12/31	0.020 CFS	0.60 AF
<u>Totals:</u>		0.200 CFS	41.50 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 Wiley Matic Date 7-24-14

Reviewer _____ Date _____

MEMORANDUM

TO: LICENSING FILE NO. 57-11678
FROM: VICKY MUSIC
SUBJECT: LICENSING AS PRIMARY A USE PERMITTED AS SUPPLEMENTAL
DATE: 7/24/2014
CC:

This permit was issued to Mr. Phifer for 0.20 cfs from ground water for the irrigation of 10 acres, domestic for 1 home, and stockwater use. The permit was issued as a supplemental ground water use when used for irrigation, with supplemental use conditions 065 and 105.

When I prepared for the field exam, I reviewed the backfile and talked to the applicant and his caretaker. I asked very specific questions about other water being historically used on the place of use. I told Mr. Phifer that the permit had been issued for a supplemental use. He very clearly stated that the place of use had not been irrigated at all before he purchased it and no surface water had ever been used. His caretaker, Christy Schlegel, a neighbor who has lived in the area for many years, also stated that no surface water had ever been used on the property.

In preparation for licensing, I reviewed 1987 and 2004 aerial photographs for any irrigation and found none. Nor did I find evidence of surface water use or a ditch system during the field exam.

The application is silent on the question as to other rights used on the property. However, there is a comment in the database entered by the water resource agent that processed the application that states:

"The applicant did state that he does have shares of water from Gem Irrigation District, which uses Oregon water rights from Owyhee Reservoir. This permit should have a condition that limits the use to 0.02 cfs and 4.5 afa per acre when combined with all other water rights."

The comment was not correct. Even if correct, any deliveries from Gem Irrigation District for this site would be from Oregon water rights [Owyhee Reservoir, etc]. It is not possible for the district to provide Idaho water from the Snake River, etc., for this corner of its place of use. See Steve Lester's map and notes attached to this memo.

Based on the evidence described in this memo, I believe that IDWR staff erred when issuing the permit for a supplemental use for irrigation. For these reason, IDWR should remove the supplemental conditions and issue the license for a primary use.

Music, Vicky

From: Lester, Steve
Sent: Wednesday, July 23, 2014 3:14 PM
To: Music, Vicky; Walker, Kay
Subject: 57-11678, Phifer supplemental use conditions

Vicky & Kay:

Unusual situation led to good question about licensing this ground water permit for primary instead of supplemental use as permitted. I think we could license primary use if examiner includes a separate memo (or revised exam narrative, if prefer) justifying in more detail how we can do this. This will document the file that enlargement will not result from this correction.

We should not use condition 050 that was suggested.

Covering these thoughts:

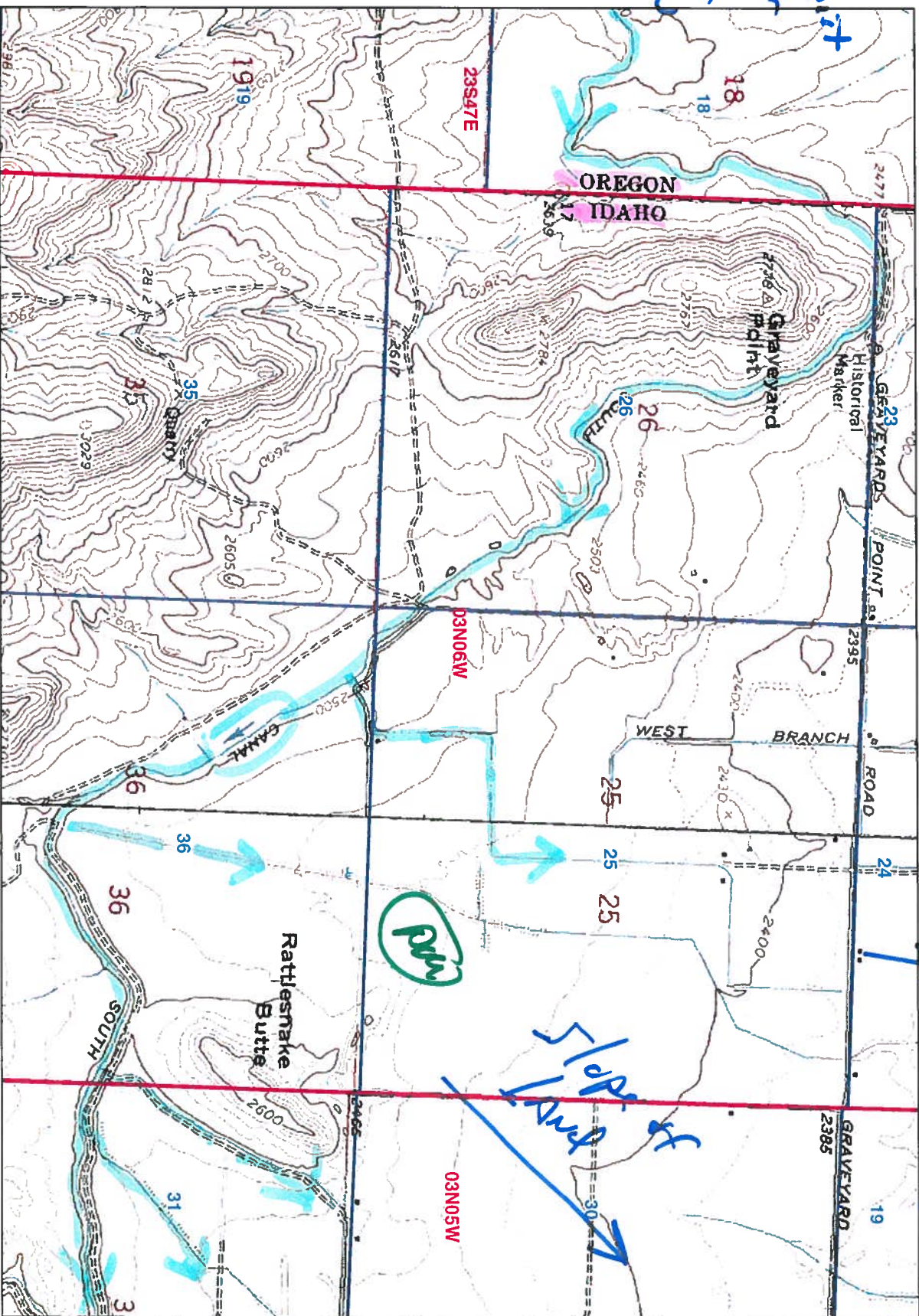
- * Appl filed with no overlap listed.
- * D'base comment 2005, applicant said has Gem Irrigation District (Gem) water but from Owyhee Reservoir, Oregon rights.
- * Appears approved for supplemental only because it's in Gem POU, not because we documented real overlap.
- * Gem includes Idaho & Oregon rights.
- * If have Gem water, it must be Oregon water (see topo added to file notes):
 - Far corner of Gem in upland area by border
 - Uphill and far removed from Gem's Idaho diversions from Snake River, Succor Creek etc.
 - South Canal has Gem water from Oregon for this site
- * Oregon rights should not be basis for determining primary or supplemental use in Idaho.
- * Can license for primary use, not an expansion based on this information.

I'll give file back to Vicky for this add-on, then Kay can get it licensed. Let me know if questions/concerns & we can talk it over.

Thx

Steve

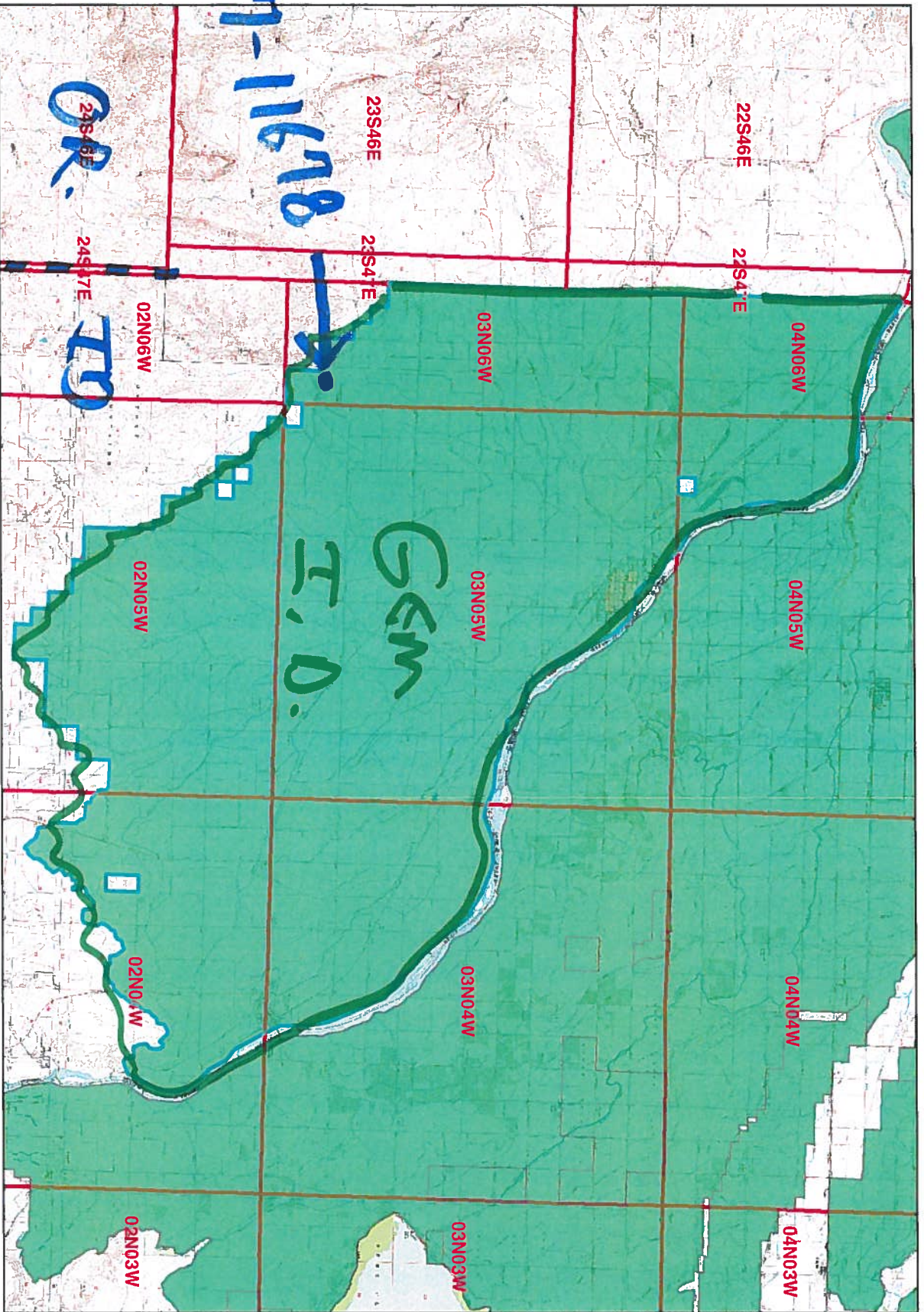
Gen
In dit
water
from
Oregon
↙



CONCLUDE - NO IDAHO WATER FROM GEN
COULD BE BE PUN IN SE N 5.25

TO TUCUAC CK.
About 3 miles north

TO
TUCUAC
River
About
5 miles



MEMORANDUM

TO: Steve Lester

FROM: Kay Walker

RE: Proposed License on 57-11678

Date: July 23, 2014

Steve:

Working on the license of this right, pursuant to Vicky's exam, and have an issue that I need help on.

1. When processing application Dan Nelson was told by applicant that he had shares in Gem Irrigation District on his property so we imposed supplemental use conditions on the permit.
2. When Vicky did her exam the permit holder stated he had no shares in Gem Irrigation District.

Should I contact Gem Irrigation and verify ownership of shares or no shares? Can we or should we remove the supplemental use conditions at this point? If yes, should we add condition 050 (Sharla's suggestion) which states:

Diversion and use of water under this right is subject to rules that may subsequently be promulgated for existing rights used for supplemental purposes.

Thanks for your guidance on this one. Kay

NO

Better documentation by examiner will allow
"change w/c expansion" from suppl. to primary use of



2013 NAIP. 63-11678 -- irrigated place of use is outlined in blue. The point of diversion is the irrigation well. The diversion system is labelled. The hatched lines are the 6 inch gated pipe. The pink lines are the 6 inch diameter underground piping. The orange points are risers.

57-11678- Field exam photographs



POD is this 6" diameter well. Water discharges through the 4" PVC piping to 6" PVC seen below the elbow, then to 6" diameter buried PVC pipe.



Riser in yard used for back up domestic and for lawn irrigation and stockwater.



Riser at southeast end of field. Also seen is the 6 " gated pipe.



Looking north at the irrigated place of use.



Looking at the riser north of the well, and the 6 " gated pipe that irrigates the northeast field.



House that is the domestic POU, riser in yard seen, stock watering troughs seen, gated pipe in background for northeast field.

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 00 31757
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Delbert Phifer
Address 1780 Sage Rd
City Homedale State Id Zip 83628

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 3 North ☒ or South ☐
Rge. 6 East ☐ or West ☒
Sec. 25 1/4 SW 1/4 SE 1/4
Gov't Lot _____
County Owyhee
Lat: _____ Long: _____
Address of Well Site 1780 Sage Rd.
City Homedale
(Give at least name of road - Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>3</u>	<u>58</u>	<u>700 #</u>	<u>pour in</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 58 ft
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6 3/8 + 2</u>	<u>58</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐	☐

Length of Headpipe _____ Length of Tailpipe _____
Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

8 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 10 ft. Describe access port or control devices: remove well cap

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
<u>7</u>	<u>92</u>	<u>100</u>	<u>1 hr</u>
<u>10</u>	<u>152</u>	<u>160</u>	<u>2 hr</u>
<u>10</u>	<u>217</u>	<u>225</u>	<u>2 1/2 hr</u>

Water Temp. 78° Bottom hole temp. _____
Water Quality test or comments: poor - sulfur
Depth first Water Encounter 8'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>8</u>	<u>dirt</u>	☒	☐
<u>"</u>	<u>8</u>	<u>11</u>	<u>rock + gravel</u>	☒	☐
<u>"</u>	<u>11</u>	<u>45</u>	<u>dirt with rock</u>	☒	☐
<u>"</u>	<u>45</u>	<u>57</u>	<u>brown clay with rock</u>	☒	☐
<u>6</u>	<u>57</u>	<u>125</u>	<u>blue clay</u>	☒	☐
<u>"</u>	<u>125</u>	<u>126</u>	<u>grey clay</u>	☒	☐
<u>"</u>	<u>126</u>	<u>185</u>	<u>blue clay</u>	☒	☐
<u>"</u>	<u>185</u>	<u>198</u>	<u>blue clay - cracks</u>	☒	☐
			<u>78° - sulfur</u>		
	<u>198</u>	<u>314</u>	<u>blue clay - crumbly +</u>	☒	☐
			<u>plugs bit</u>		
	<u>314</u>	<u>318</u>	<u>hard grey shale</u>	☒	☐
	<u>318</u>	<u>380</u>	<u>sticky blue clay</u>	☒	☐
	<u>380</u>	<u>500</u>	<u>sticky blue clay</u>	☒	☐
	<u>500</u>	<u>510</u>	<u>blue clay caving bed</u>	☒	☐
	<u>510</u>	<u>570</u>	<u>blue clay</u>	☒	☐

RECEIVED

APR 10 2006

WATER RESOURCES
WESTERN REGION

Completed Depth 570 ft (Measurable)
Date: Started 9/8/05 Completed 10/18/05

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Robinson Well Drilling Firm No. 490

Principal Driller Ralph Robinson Date 2/28/06

Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.



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 4, 2014

DELBERT PHIFER
1780 NIELSON RD
HOMEDATE, ID 83628

Re Permit To Appropriate Water No. 57-11678

Dear MR PHIFER:

The permit referenced above was issued for 0.20 cfs for the irrigation from ground water of 10 acres, to supplement surface water delivered by the Gem Irrigation District. This letter is to request that you call me to schedule the field exam for this permit. A field exam is required by Idaho law before a license can be issued, at which time it becomes a water right. The license is the end product needed for continued water use

Additionally, please have available at the exam someone familiar with the system and its construction, as well as the following documentation:

- 1 – pump and motor specs;
- 2 - the depth at which the pump is set; and,
- 3 – a pump curve.

Please call me as soon as possible at 208.334.2190, to set an appointment for the exam that I hope to conduct in May of 2014. Failure to respond to this letter request by **May 5, 2014**, may result in the permit being voided or a license issued for less than the permitted amount. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Vicky Music'.

Vicky Music
Sr. Water Resource Agent