

MEMORANDUM

Date: April 19, 2014
To: Water Right File 85-7618 and 85-7631
From: shemenway
Re: Field Report Narrative

See memo Dated 11-13-14

The Stephen Schaub Ranch is controlled by: Steve Schaub is the president, Mary Schaub is the vice president, and Harry (Bill) Hobbs Jr is the secretary/treasurer, and regulated by IDEQ PWS#2350040 known as Red Pheasant Water Co. Bill is the certified water system operator and ranch manager. Ron Cooper is the other certified operator for this water system. Contact information for Steve Schaub is: 1065 Harvest Moon Ln., Lewiston, ID 83501 (208)717-8484, schaubbranch@microwavedsl.com. Contact information for Bill Hobbs is the same address, and phone number, bdhobbs@microwavedsl.com

At the time of the field examination, there were 3 wells found (Wells #1, #2 and #3). Well #3 had been drilled about 650 ft west of well #2, but no pump installed, and it had not yet been connected into the distribution system. Well #1 is located slightly northeast of the (2) storage tanks. **Well #1 E0006983**, was drilled 7/14/1994, by Burns Well Drilling, has a 10 inch casing, is 1053 ft deep, 670 ft static, 60 Hp submersible pump (unknown make/model) with a 2 ½ inch galvanized steel discharge to the 64,000 gallon storage tank. Directly north of Well #1 is a **pump house with 2 booster pumps** (7.5 Gould unknown make/model). To the west is located another **pump house with 4 identical vertical turbine booster pumps**: Baldor 20 Hp each, cat# 84-203374, with a hydropneumatic tank and a Well X troll WX457C pressure tank. Outside this pump house, to the west is located the **auxiliary back-up power source**.

See memo Dated 11-13-14

If you go north up the road, you run into the well lot and pump house for well #2. **Well #2 E0005583** is located directly north outside the pump house. It was drill on 10/1/2008 by H2O Well Service, Inc. It has a 20 inch casing, 1157 feet deep, 600 ft static, 2 ½ inch discharge to 4 inch buried ductile iron running to the storage tanks, with the system pressure of 80 psi (found in the booster house for well #1 that has the 4 booster pumps). It has a submersible pump (unknown make/model). Also located in the pump house for well #2 is a lot of fire protection gear, and clothes for the volunteer fire department.

Due to not having adequate room to monitor flow, flow records were requested by the public water system operator (daily, monthly, annual, and peak demand). All other missing information was also requested.

There are **(2) storage tanks** that both fill from the top. Both storage tanks are located by well #1. The closest one to well #1 is 64,000 gallon (built in 1995), with a 6 inch overflow. The other storage tank is a 136,000 gallon storage tank (built in 2007) with a 12 inch overflow. The levels are controlled by demand and monitored and controlled using a SCADA program, maintaining the entire system at 80 psi.

Discharge from the two manifolded storage tanks is to a 12 inch ductile pipe, through the booster station, discharges to 10 inch ductile iron that changes to 10 inch C900 buried pipe that runs southwest down the road, with 2 lines running into the subdivision: a 6 inch and a 10 inch C900 running into the subdivision and then reducing to 1 inch poly to each of the 100 connections 100 connections, and a separate 2 inch main running to the 2 vineyard, reducing to 3500 drip system emitters, with a flow of 1 gallon per hour. According to the sanitary survey report written by IDEQ, there was a note that stated that this distribution system was tied into the Eagle Point Subdivision, but only for an emergency source (in the event of a fire).

The following beneficial uses were found:

85-7618:

Diversion to Storage

Irrigation from Storage (the trees, fruit trees, and vineyard areas)

Irrigation (trees, fruit trees, and vineyard areas)

Commercial (the farm shops with 5 people/day, 2 toilets and sinks and 1 shower; 180 chickens, 18 sheep, 8 cattle, and 30 turkeys that they buy/sell)

Note: The golf course that had been planned under water right 85-7618 was not developed, so for this reason RECREATION STORAGE was removed, and the number of acres for IRRIGATION was reduced to only the area where the trees, fruit trees and vineyards are located (as confirmed at the time of the field examination).

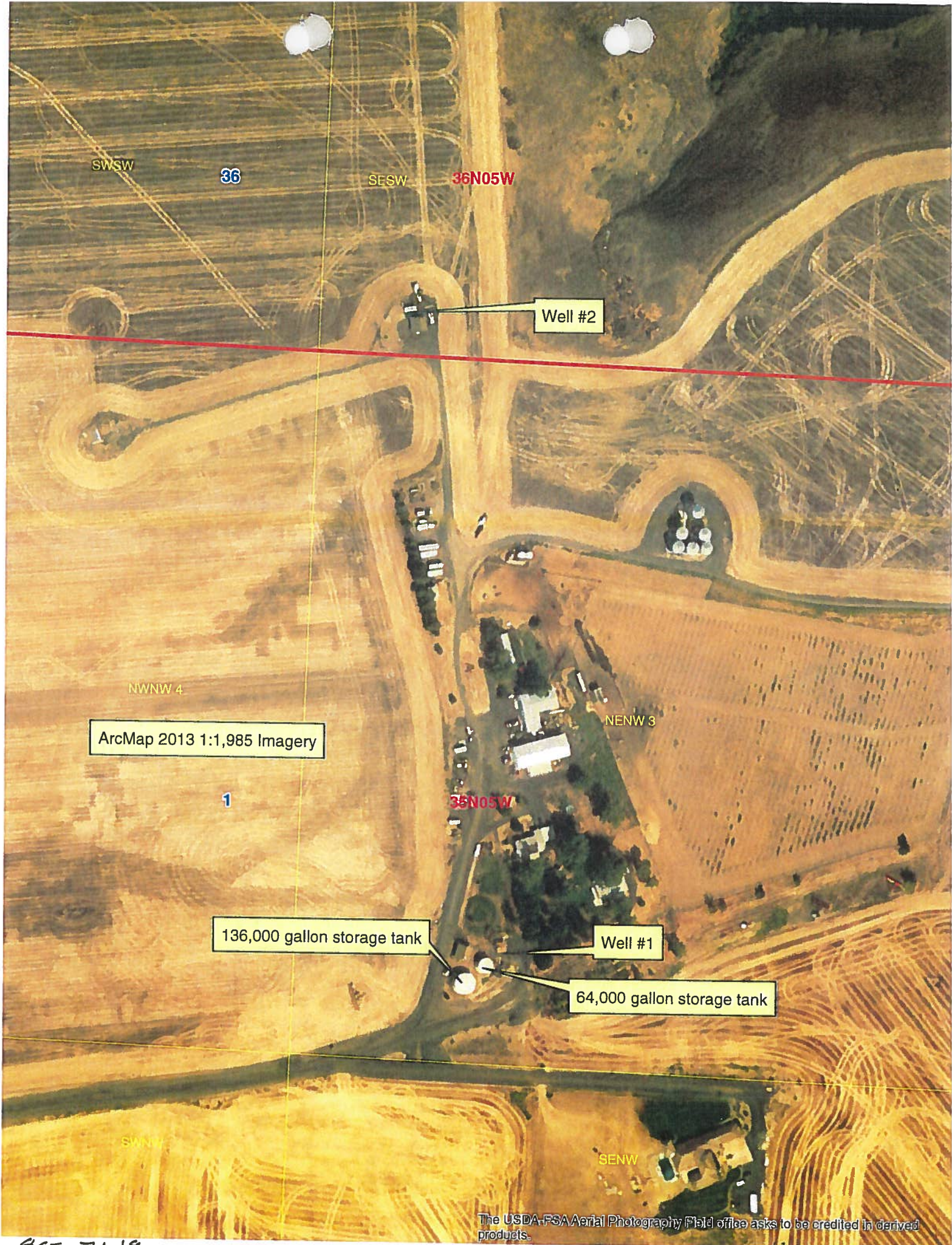
85-7631:

Irrigation***

Domestic***

Fire Protection

***Domestic and Irrigation Use should be changed to Municipal since it is for 100 connections within the service area of the subdivision.



SWSW

36

SESW

36N05W

Well #2

NWNW 4

ArcMap 2013 1:1,985 Imagery

1

NENW 3

35N05W

136,000 gallon storage tank

Well #1

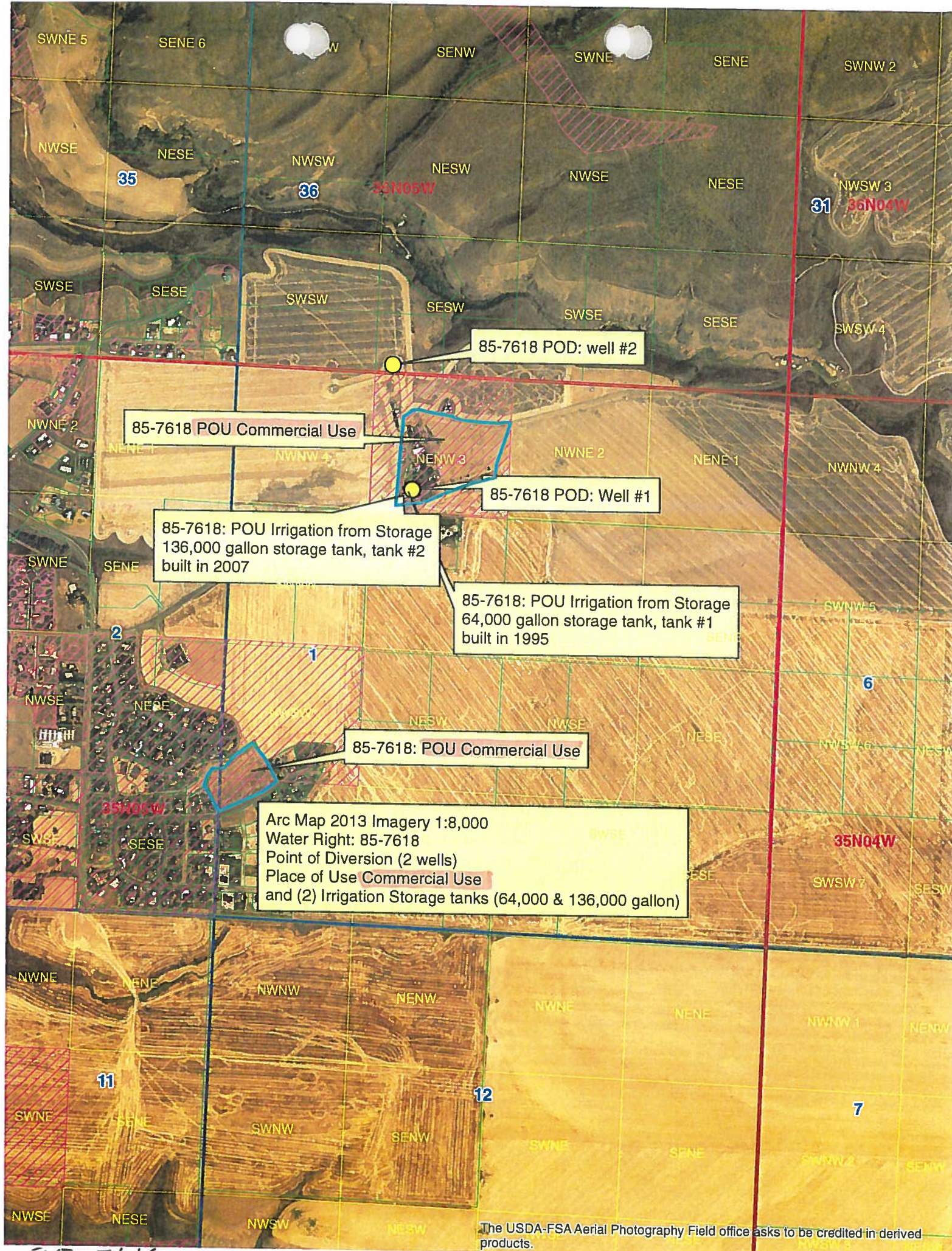
64,000 gallon storage tank

SWNW

SENW

The USDA-FSAAerial Photography Field office asks to be credited in derived products.

94-71-19





#1
pump
house
Gould
7 1/2 hp

P017
well #1
2 storage
tanks,
2 shops

85-7618 + 85-7631

S. Hemerway



85-7618 + 85-7631

S. Hennessey



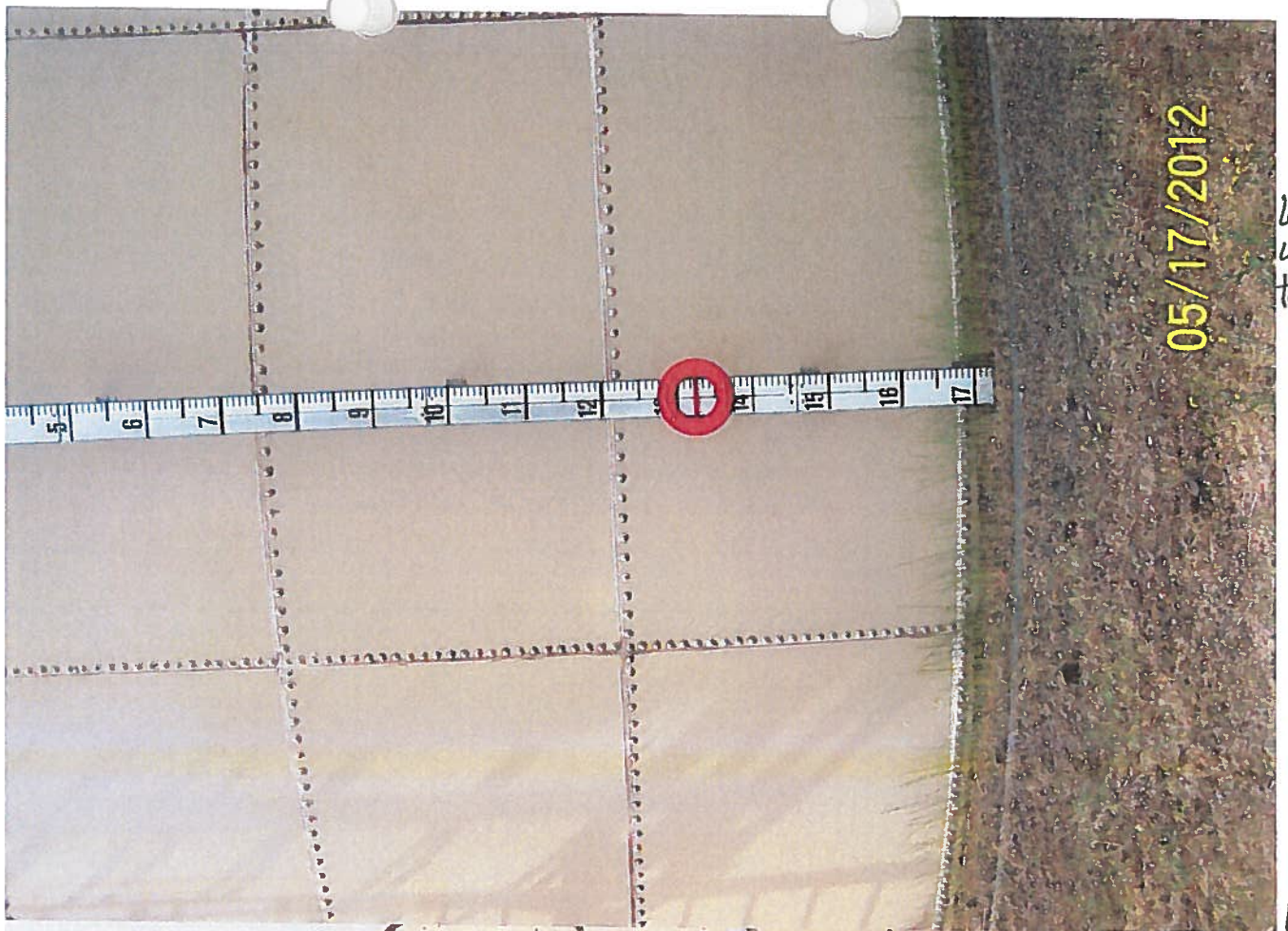
Inside
pump
house
#1



pump
house
#2

85-7618 + 85-7631

S. Hernerway



05/17/2012

level
in
tank



05/17/2012

85-7618 + 85-7631

S. Hemerway



136,000
gallon
storage
tank

Auxiliary
power

05/17/2012

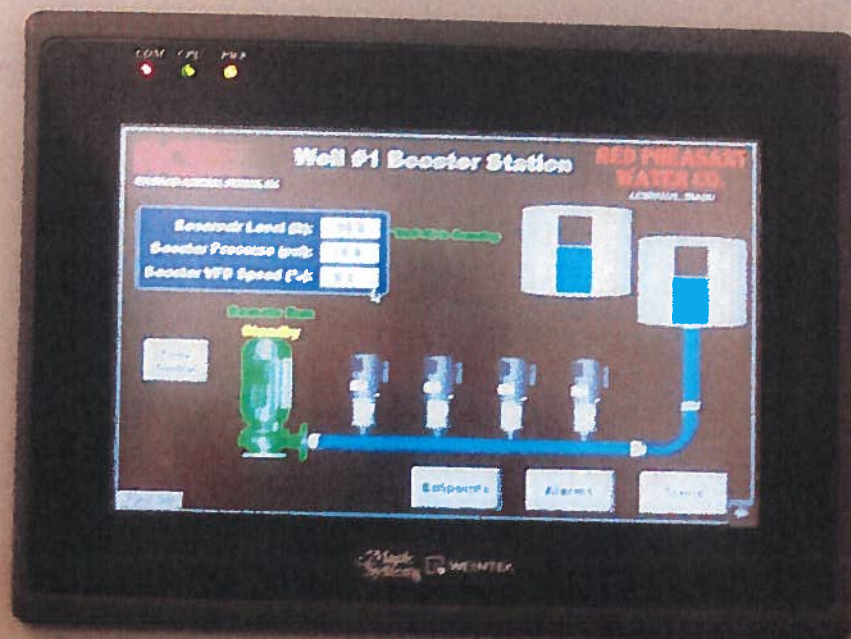


fills
from
top,
136,000
gallon
storage
tank
12"
overflow

05/17/2012

85-7618 + 85-7631

S. Hemerway



85-7618 + 85-7631

S. Hemenway



well
#2
pump
house
2 1/2"
dischar
to
4"
ductile
to
storage
tanks

05/17/2012



well
#2
pump
house

POD
well
#2
directly
north
of
pump
house
20"
casing

05/17/2012

85-7618 + 85-7631

S. Hemmick



pump
house
for
well
#2
where
fire
protecti
gear
is
stored
super
pressure
at
well
#1
pump
house

85-7618 + 85-7631

S. Hemerick



85-7619
POL:
Commence
was



85-7618 + 85-7631

S. Hemeruss



85-7618
POU
Commerce
use



85-7618 + 85-7631

S. Hernandez



85-7618
Commercial
use

180 chickens
18 sheep,
8 cattle,
30 turkeys
(raise + sell)



05/17/2012

85-7618 + 85-7631

S. Hemmway



85-7618
FOW:
Comment

05/17/2012



85-7618
Comment

05/17/2012

85-7618 + 85-7631

S. Hemerway



85-7618
85-7631
one
of 23
fire
hydrant

05/17/2012



85-7618
fruit tree
trees
+
vineyard

05/17/2012

85-7618 & 85-7631

S. Hemerway



85-7618 + 85-7631

S. Hemminger

PLEASE NOTE

Sandy Hemenway included the incorrect well driller's report for well # 2 with her memo. The well driller's report that Ms. Hemenway submitted had the wrong legal description and was drilled 7 years after the well associated with this permit. The following well log is the correct well driller's report for Well #2.

Please see memo dated 11/13/14 for additional information.

Daniel A. Nelson

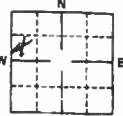
Staff Hydrologist

(Sign once if Firm Official & Operator)

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESUSE TYPEWRITER OR
BALLPOINT PEN

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.

1. WELL OWNER Name <u>STEVEN SCHAUB RANCH</u> Address <u>3245 LARNAI ROAD</u> Drilling Permit No. <u>85-94-N-60-000</u> Water Right Permit No. <u>85-7607</u>	7. WATER LEVEL Static water level <u>670</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 <u>55</u> °F. Quality <u>GOOD</u> Describe artesian or temperature zones below.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Modification ☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)	8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ 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><u>150+</u></td> <td><u>1053</u></td> <td><u>3</u></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	<u>150+</u>	<u>1053</u>	<u>3</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☒ Other _____ (specify type)	9. LITHOLOGIC LOG <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>10</td><td>0</td><td>16</td><td>CLAY</td><td> </td><td> </td></tr> <tr><td>10-1</td><td>20</td><td>23</td><td>SAND</td><td> </td><td> </td></tr> <tr><td>8</td><td>23</td><td>29</td><td>CLAY</td><td> </td><td> </td></tr> <tr><td>7</td><td>29</td><td>37</td><td>SAND</td><td> </td><td> </td></tr> <tr><td>8</td><td>37</td><td>42</td><td>CLAY</td><td> </td><td> </td></tr> <tr><td>8</td><td>42</td><td>50</td><td>SAND</td><td> </td><td> </td></tr> <tr><td>8</td><td>50</td><td>59</td><td>CLAY</td><td> </td><td> </td></tr> <tr><td>8</td><td>59</td><td>70</td><td>CLAY</td><td> </td><td> </td></tr> <tr><td>8</td><td>70</td><td>77</td><td>SAND</td><td> </td><td> </td></tr> 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4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Auger ☐ Reverse rotary ☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)	10. APPROVAL Work started <u>6/29/94</u> finished <u>7/15/94</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other <u>AL</u> <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><u>250</u> inches</td> <td><u>10</u> inches</td> <td><u>2</u> feet</td> <td><u>12</u> feet</td> </tr> <tr> <td><u>250</u> inches</td> <td><u>8</u> inches</td> <td><u>23</u> feet</td> <td><u>440</u> feet</td> </tr> <tr> <td><u>250</u> inches</td> <td><u>6</u> inches</td> <td><u>42</u> feet</td> <td><u>1083</u> 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 ☒ Gun Size of perforation? <u>1/2</u> inches by <u>6</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><u>170</u> perforations</td> <td><u>980</u> feet</td> <td><u>1015</u> feet</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> Well screen installed? ☐ Yes ☒ No Manufacturer _____ Type _____ Top Packer or Headpipe _____ Bottom of Tailpipe _____ 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 _____ feet to _____ feet Surface seal depth <u>2</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 <u>WELL SEAL</u>	Thickness	Diameter	From	To	<u>250</u> inches	<u>10</u> inches	<u>2</u> feet	<u>12</u> feet	<u>250</u> inches	<u>8</u> inches	<u>23</u> feet	<u>440</u> feet	<u>250</u> inches	<u>6</u> inches	<u>42</u> feet	<u>1083</u> feet	Number	From	To	<u>170</u> perforations	<u>980</u> feet	<u>1015</u> feet										11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Burns Well Drilling, Inc.</u> Firm No. <u>103</u> Address <u>RE - 2 Box 615</u> <u>Grangeville, Idaho 83530</u> Signed by Drilling Supervisor <u>[Signature]</u> and (Operator) <u>[Signature]</u> (If different than the Drilling Supervisor)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>NEZ PERCE</u> Address of Well Site <u>SAME</u> (give at least name of road) <u>SCL 1/4 NW 1/4 Sec. 1</u> T. <u>35</u> N. R. <u>5</u> E. ☐ or W ☐	7. WELL TEST DATA ☐ Pump ☐ Bailor ☒ 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><u>150+</u></td> <td><u>1053</u></td> <td><u>3</u></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	<u>150+</u>	<u>1053</u>	<u>3</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Basin	Sequencer	Process	Basis	Status	RightID	Priority	Date	Diver	Source	List	Water Use	List	Current Owner	Lease Total / A	Vol.
85	4394	Water Ri	Decreed	Active	137564	1/1/1957		0.12	GROUND W	DOMESTIC			SCHAUB, STEPH		
85	7607	Water Ri	License	Active	105030	8/16/1994		0.22	GROUND W	DOMESTIC, IRRIGATION			STEPHEN SCHAU	10.0	55.0
85	7618	Water Permit		Active	101458	9/1/1995		3.00	GROUND W	COMM., DIV. STOR., IRR. FROM STOR., IRR.			REC-STOR STEPHEN SCHAU	160.0	
85	15428	Water Permit		active	577791	9/28/2003		1.00	GROUND W	DOMESTIC, IRRIGATION			SCHAUB RANCH	163.0	

POU Overlap 35N 05W Sec 1 NW

POU Overlap 35N 05W Sec 1 SW

85 7618
85 7631

POU Overlap 35N 05W Sec 2 NE

85 7618
85 15428

POU Overlap 35N 05W Sec 2 SE

85 7618
85 7607
85 7631

POU Overlap 35N 05W Sec 36 SW

85 7618

POD Overlaps

85 7618
85 4394
85 7607
85 7631
85 15428