

MEMORANDUM

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

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**.

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

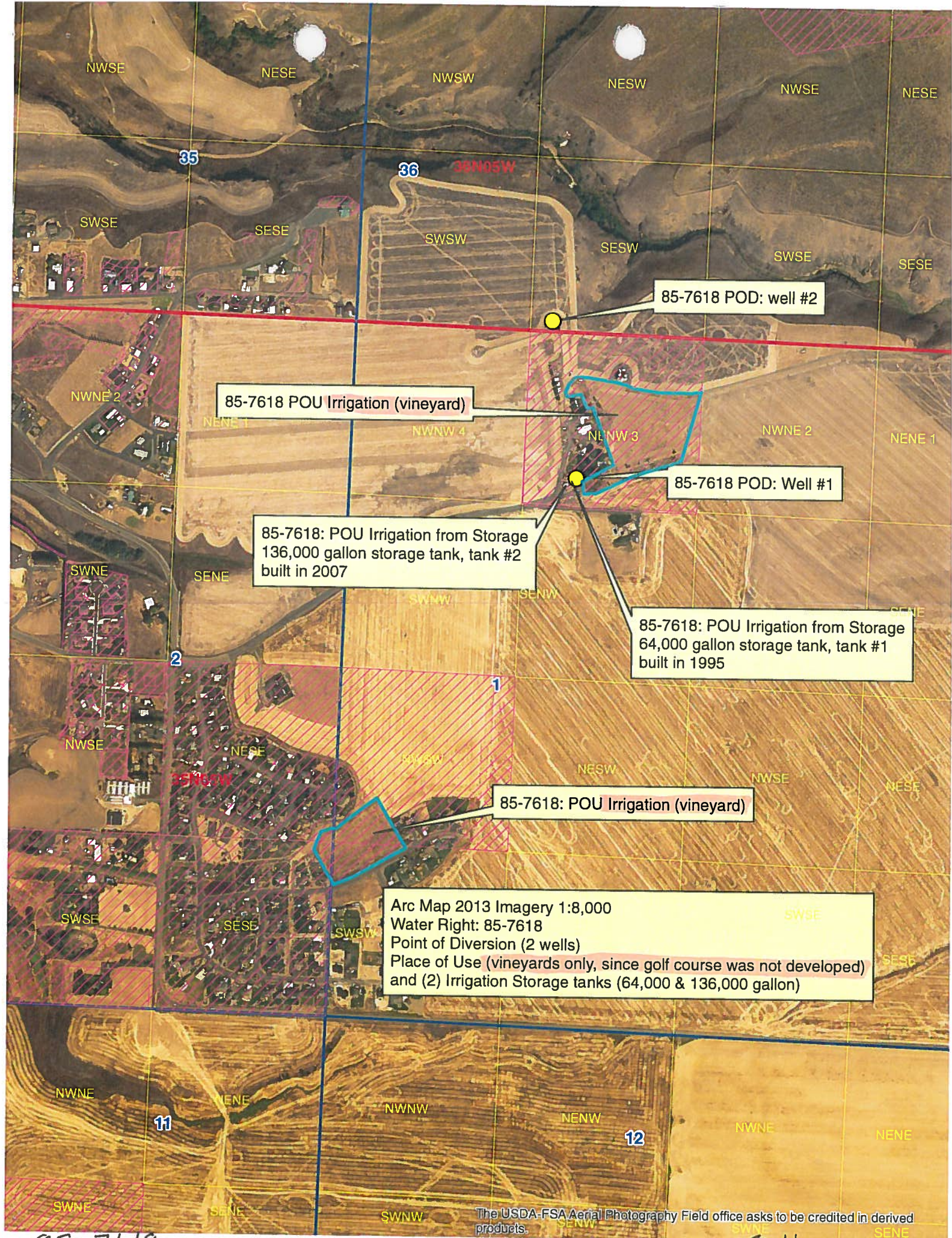
136,000 gallon storage tank

Well #1

64,000 gallon storage tank

SWNW

SENW



85-7618 POU Irrigation (vineyard)

85-7618 POD: well #2

85-7618 POD: Well #1

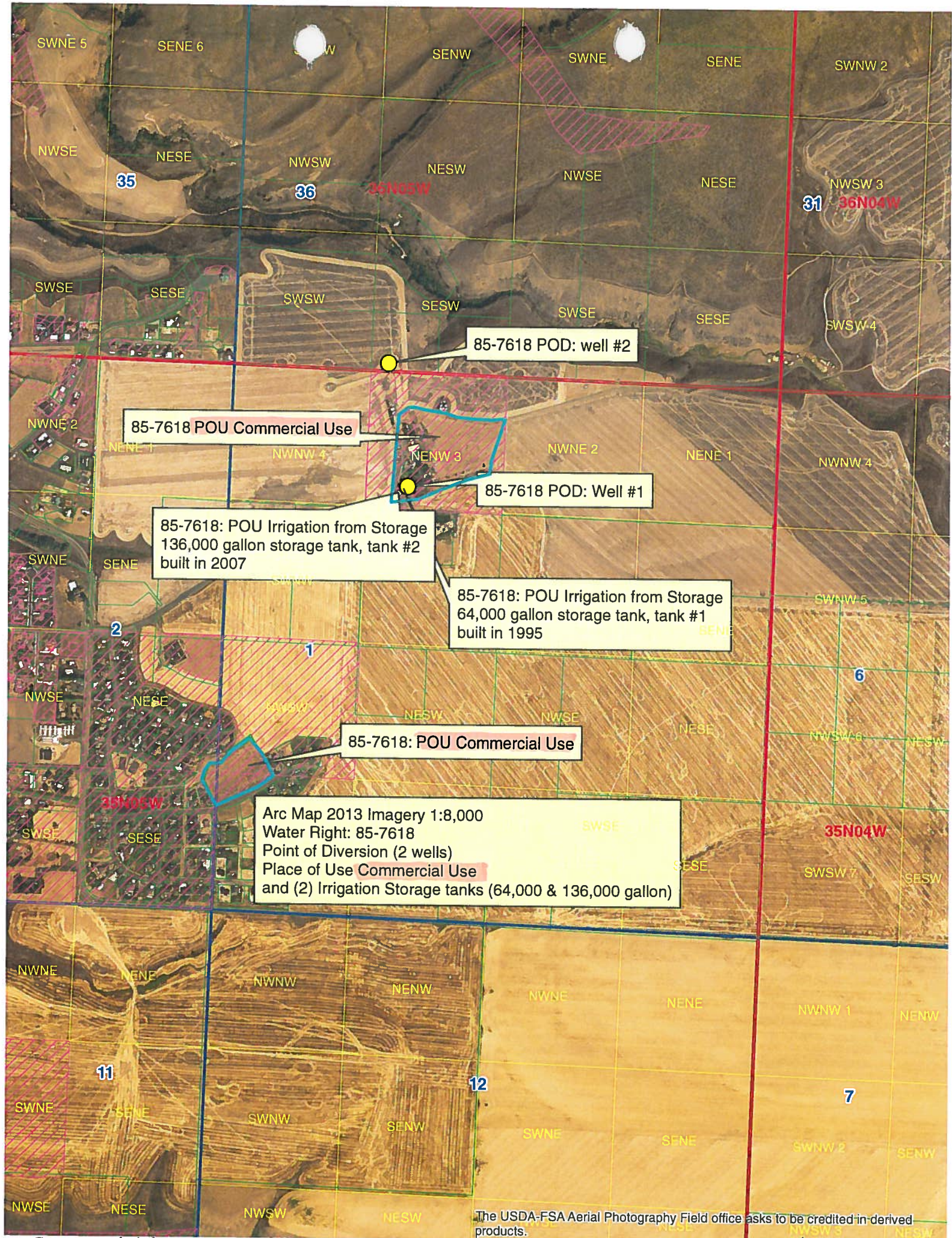
85-7618: POU Irrigation from Storage
136,000 gallon storage tank, tank #2
built in 2007

85-7618: POU Irrigation from Storage
64,000 gallon storage tank, tank #1
built in 1995

85-7618: POU Irrigation (vineyard)

Arc Map 2013 Imagery 1:8,000
Water Right: 85-7618
Point of Diversion (2 wells)
Place of Use (vineyards only, since golf course was not developed)
and (2) Irrigation Storage tanks (64,000 & 136,000 gallon)

85-7618



85-7618 POU Commercial Use

85-7618 POD: well #2

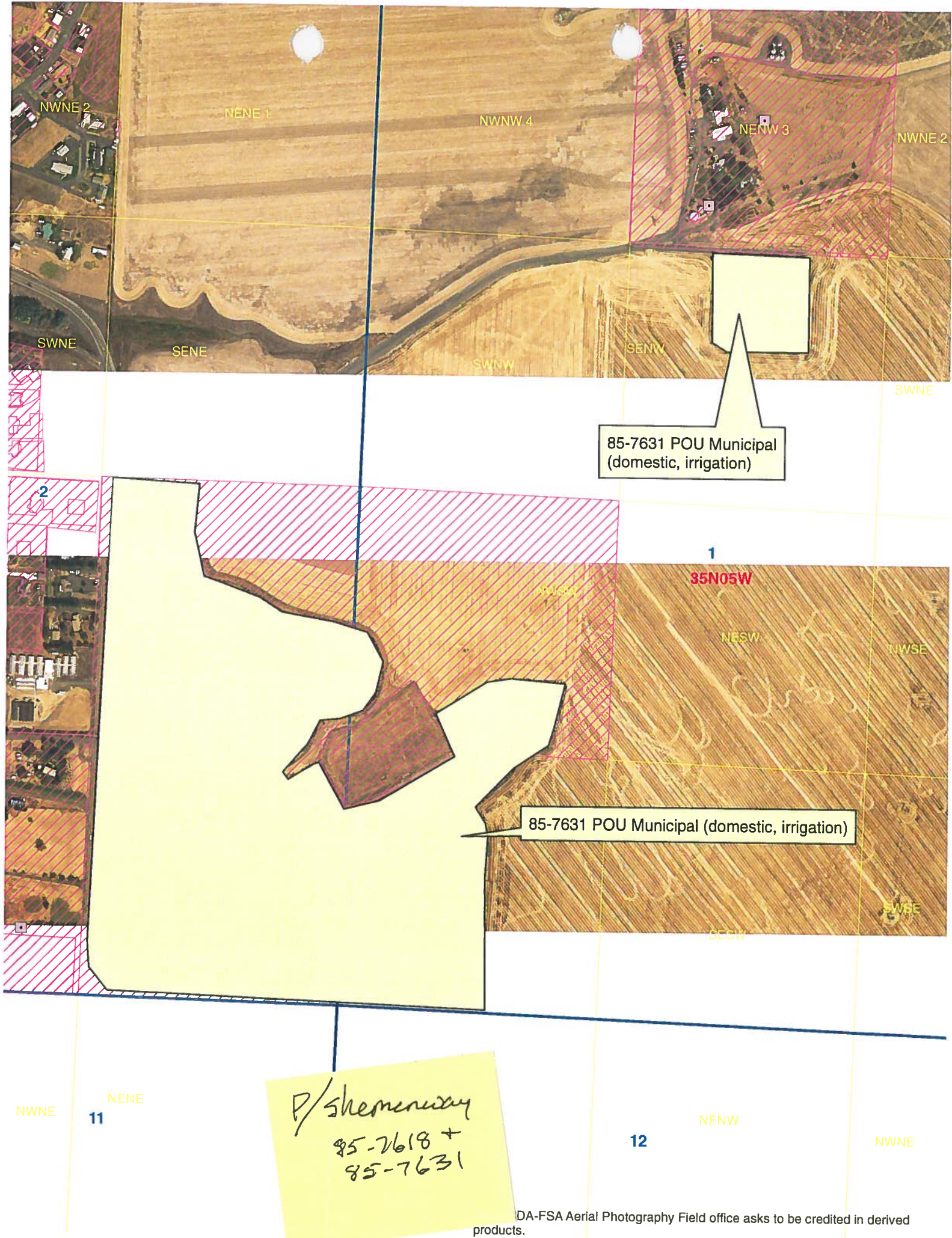
85-7618 POD: Well #1

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136,000 gallon storage tank, tank #2
built in 2007

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64,000 gallon storage tank, tank #1
built in 1995

85-7618: POU Commercial Use

Arc Map 2013 Imagery 1:8,000
Water Right: 85-7618
Point of Diversion (2 wells)
Place of Use Commercial Use
and (2) Irrigation Storage tanks (64,000 & 136,000 gallon)



NWNE 2

NENE 1

NWNW 4

NENW 3

NWNE 2

SWNE

SENE

SWNW

SENW

SWNE

85-7631 POU Municipal
(domestic, irrigation)

1

35N05W

NESW

NWSE

85-7631 POU Municipal (domestic, irrigation)

SWSE

NWNE

11

NENE

12

NENW

NWNE

P/shemenway
85-7618 +
85-7631



05/17/2012



#1
pump
house
could
7 1/2 hp

POI
well #1,
2 storage
tanks,
2 shops

05/17/2012

85-7618 + 85-7631

S. Hemerway



136,000
gallon
tank
64,000
gallon
tank
well
#1
pump
house
#1

05/17/2012



Booster
pumps
in
pump
house
#1
7 1/2
hp
Gould

05/17/2012

85-7618 + 85-7631

S. Hennessey



Inside
pump
house
#1

05/17/2012

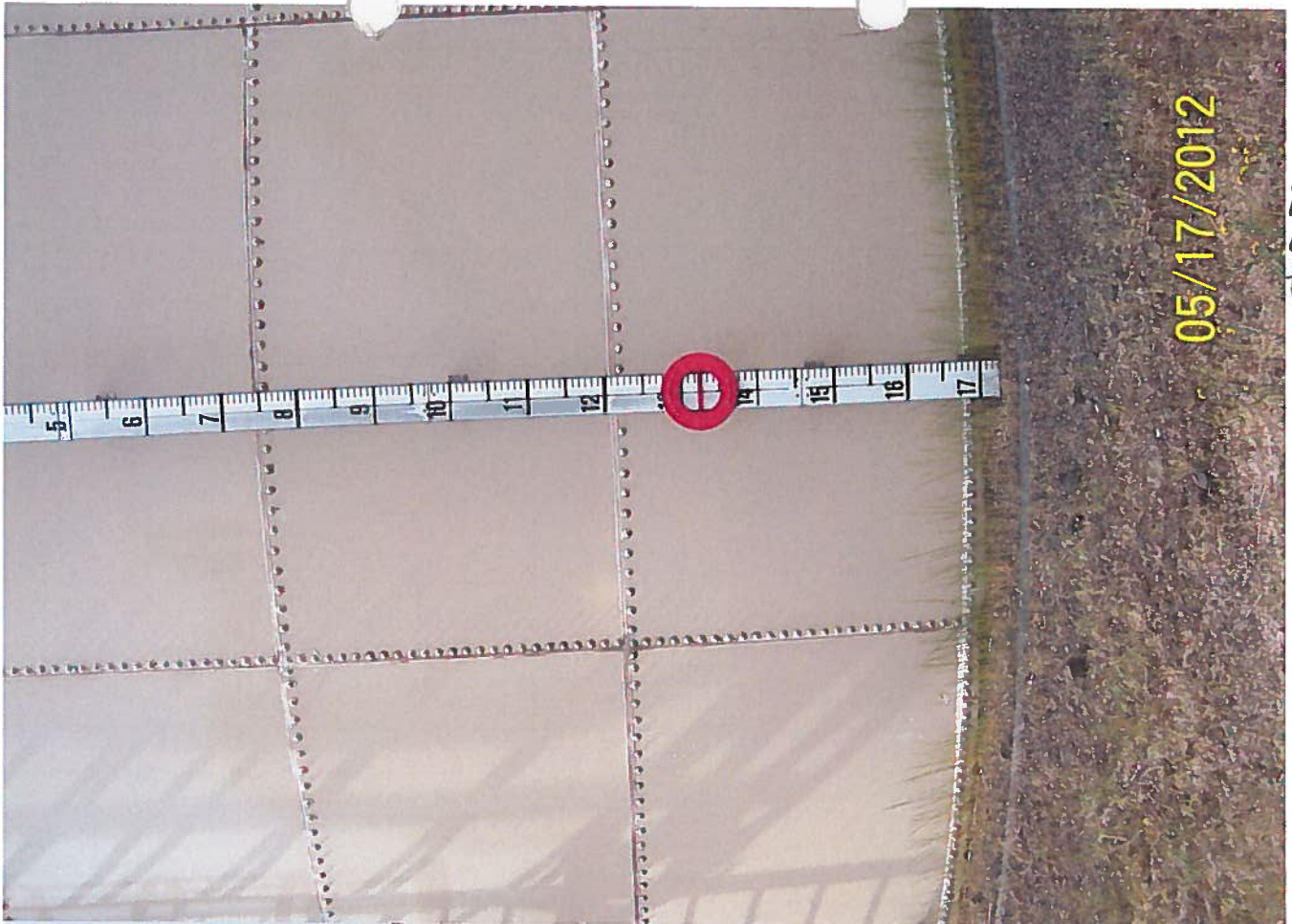


pump
house
#2

05/17/2012

85-7618 + 85-7631

S. Hemenway



level
in
tank

05/17/2012



136,000
gal.
storage
tank
64,000
gal.
storage
tank

6"
outflow

POD
#1 60
HP
E0006893
1 1/2 HP
Casing
submerged
extends
23"
above
ground,
10"
casing

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

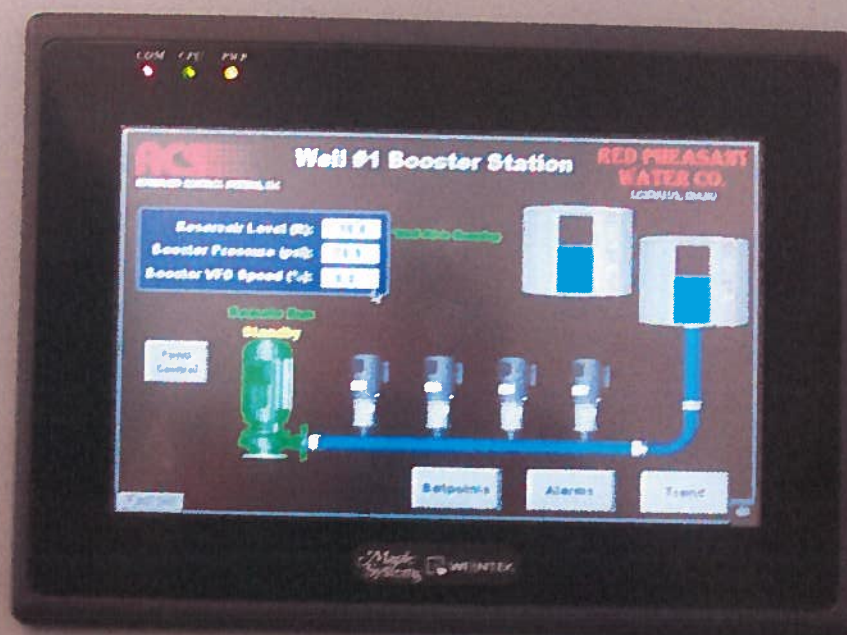
Hydropneumatic tank

Booster pumps
inside pump
house
#2

(4) Baldor
each are 20HP
cat #84-203374
for well
#1

12"
ductile
80psi
also
located
in
pump
house
was a
pressure
tank
well
tool
WX457C

05/17/2012



SCADA
for
entire
system

05/17/2012

85-7618 + 85-7631

S. Hemenway



well
#2
pump
house
2 1/2"
discharge
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. Hemesway



pump
house
for
well
#2
where
fire
protection
gear
is
stored
system
pressure
at
well
#1
pump
house

85-7618 + 85-7631

S. Humerway



85-7618
POL:
Commercial
use



85-7618 + 85-7631

S. Hemminger



85-7618
POU
Commercial
use



85-7618 + 85-7631

S. Hemerick



05/17/2012

85-7618
Commercial
use

130 chickens
18 sheep,
2 cattle,
30 turkeys
(raise + sell)



05/17/2012

85-7618 + 85-7631

S. Hemmingson

85-7618
POU:
Commercial



85-7618
Commercial

85-7618 + 85-7631

S. Hemerway



85-7618
+
85-7631
one
of 23
fire
hydrant

05/17/2012

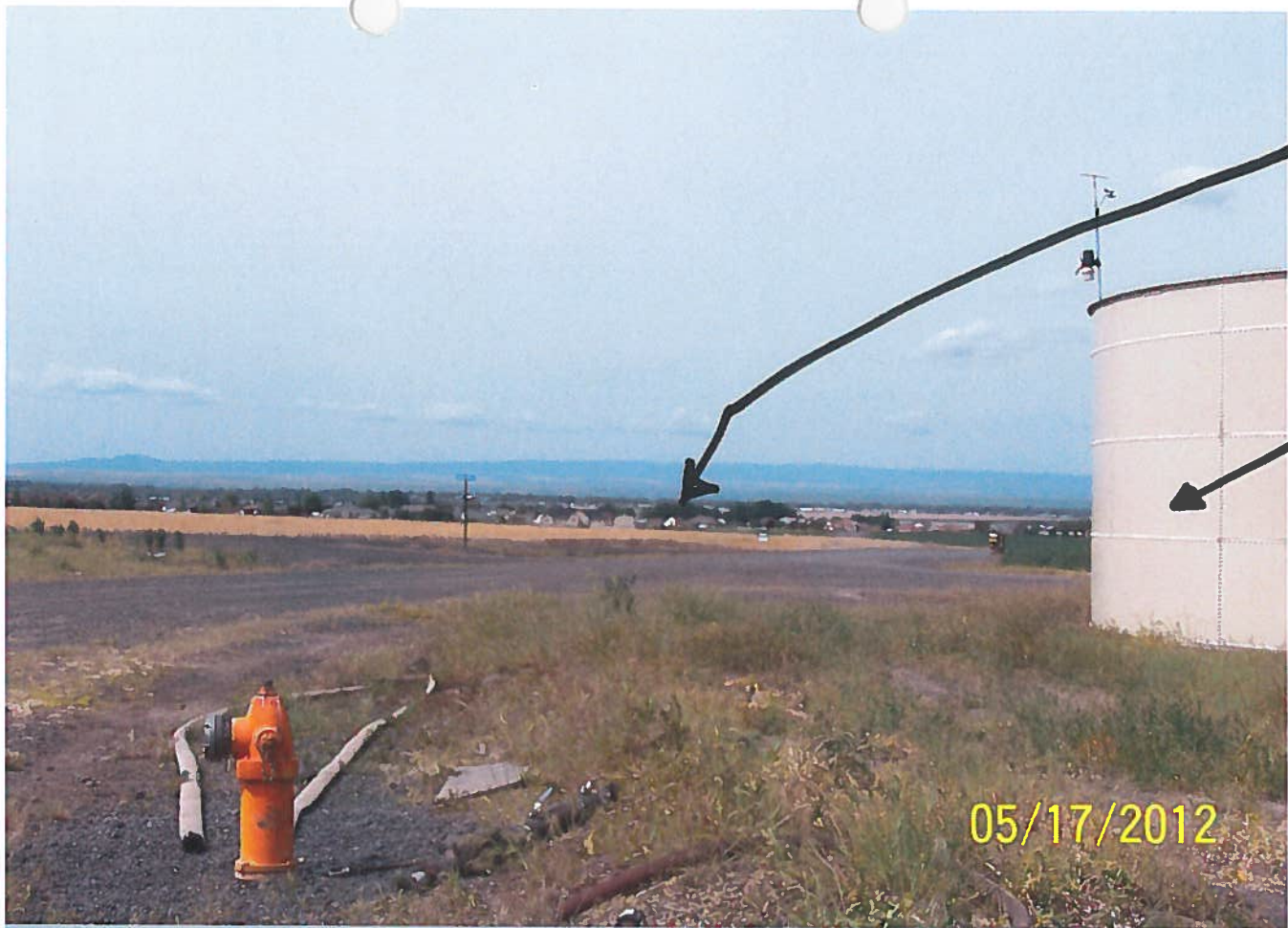


85-7618
fruit tree
trees
+
vineyard

05/17/2012

85-7618 + 85-7631

S. Hemenway



85-7631
97
homes

136,000
gallon
storage
tank

05/17/2012



85-7631
subdiv.
97 homes

85-7618
vineyard

05/17/2012

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**

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

RECEIVED

Office Use Only

Inspected by

Wp

Rge

Sec

1/4

1/4

1/4

Lat

Long

11. WELL TESTS

☐ Pump

☐ Bailor

☒ Air

☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
100+		960	2Hrs.

Water Temp. 51

Bottom hole temp.

Water Quality test or comments: Cold/Clear

Depth first Water Encounter 120'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
6.5	0	3	Top Soil		X
6.5	3	30	Clay		X
6.5	30	55	Clay & Basalt		X
6.5	55	125	Basalt		X
6.5	125	135	Porous Basalt		X
6.5	135	175	Basalt	X	
6.5	175	195	Broken Basalt		X
6.5	195	230	Porous Basalt		X
6.5	230	245	Basalt		X
6.5	245	280	Clay		X
6.5	280	285	Basalt		X
6.5	285	295	Sand & Clay		X
6.5	295	300	Sand		X
6.5	300	320	Clay		X
6.5	320	345	Sand		X
6.5	345	360	Clay		X
6.5	360	375	Sand		X
6.5	375	385	Clay		X
6.5	385	390	Basalt		X
6.5	390	425	Basalt		X
6.5	425	440	Schale		X
6.5	440	465	Basalt		X
6.5	465	485	Porous Basalt		X
6.5	485	580	Basalt		X
6.5	580	585	Porous Basalt		X
6.5	585	615	Basalt	X	
6.5	615	645	Schale		X
6.5	645	715	Basalt		X
6.5	715	720	Schale		X
6.5	720	755	Basalt	X	
6.5	755	770	Porous Basalt		X
6.5	770	800	Basalt		X
6.5	800	850	Decomposed Basalt		

Completed Depth 960' (Measurable)

Date: Started 18JUN2001 Completed 27AUG2001

13. DRILLER'S CERTIFICATION

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

Company Name Burns Well Drilling, Inc. Firm No. 103

Firm Official David M. Warburton Date 10/15/01

and Driller or Operator Nick R. Heitman Date 10/15/01

(Sign once if Firm Official & Operator)

1. WELL TAG NO. D 0017382

DRILLING PERMIT NO. 7-69450

Other IDWR No.

2. OWNER:

Name Steven Schaub Ranch

Address 3745 Lapwai Road

City LEWISTON State ID Zip 83501

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
E
S

Twp. 36 North ☒ or South ☐
Rge. 05 East ☐ or West ☒
Sec. 36 SE 1/4 SW 1/4
Gov't Lot County Nez Perce
Lat Long

Address of Well Site 3745 Lapwai

City LEWISTON

Road (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/FILTER PACK	AMOUNT	METHOD
Material	From To Sacks or Pounds	
Concrete/Ber	0 55	Trimie Pipe
Bentonite	0 391	BentoniteSl

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 10" 55" 8" 391'
Was drive shoe seal tested? ☒ Y ☐ N How? AIR 6" 85'

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
10"	+2	55	.322	STE	☒	☐	☒	☐
8"	+2	391	.322	STE	☒	☐	☒	☐
6"	+2	855	.250	STE	☒	☐	☒	☐

Length of Headpipe Length of Tailpipe

9. PERFORATIONS/SCREENS

Perforations Method None

Screens Screen Type None

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
N/A					N/A	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

633' ft. below ground Artesian pressure lb.

Depth flow encountered 895' ft. Describe access port or control devices: Removable Well Cap

Report 1 of 2

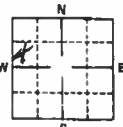
36 N 5 W 36 FORWARD WHITE COPY TO WATER RESOURCES

FORWARD WHITE COPY TO WATER RESOURCES

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>3745 LADDER ROAD</u> Drilling Permit No. <u>85-94-N-60-100</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"><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></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"><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>28</td><td>28</td><td>GRAVEL</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>GRAVEL</td><td></td><td></td></tr><tr><td>8</td><td>37</td><td>47</td><td>CLAY</td><td></td><td></td></tr><tr><td>8</td><td>47</td><td>50</td><td>GRAVEL</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>66</td><td>CLAY</td><td></td><td></td></tr><tr><td>8</td><td>66</td><td>70</td><td>CLAY</td><td></td><td></td></tr><tr><td>8</td><td>70</td><td>77</td><td>GRAVEL</td><td></td><td></td></tr><tr><td>8</td><td>77</td><td>78</td><td>CLAY</td><td></td><td></td></tr><tr><td>8</td><td>78</td><td>80</td><td>CLAY</td><td></td><td></td></tr><tr><td>8</td><td>80</td><td>90</td><td>CLAY</td><td></td><td></td></tr><tr><td>8</td><td>90</td><td>97</td><td>GRAVEL</td><td></td><td></td></tr><tr><td>8</td><td>97</td><td>98</td><td>CLAY</td><td></td><td></td></tr><tr><td>8</td><td>98</td><td>100</td><td>CLAY</td><td></td><td></td></tr><tr><td>8</td><td>100</td><td>103</td><td>CLAY</td><td></td><td></td></tr><tr><td>8</td><td>103</td><td>105</td><td>CLAY</td><td></td><td></td></tr><tr><td>8</td><td>105</td><td>105</td><td>CLAY</td><td></td><td></td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	10	0	16	CLAY			10-1	28	28	GRAVEL			8	23	29	CLAY			7	29	37	GRAVEL			8	37	47	CLAY			8	47	50	GRAVEL			8	50	59	CLAY			8	59	66	CLAY			8	66	70	CLAY			8	70	77	GRAVEL			8	77	78	CLAY			8	78	80	CLAY			8	80	90	CLAY			8	90	97	GRAVEL			8	97	98	CLAY			8	98	100	CLAY			8	100	103	CLAY			8	103	105	CLAY			8	105	105	CLAY		
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4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Auger ☐ Reverse rotary ☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)																																																																																																																													
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☒ Other <u>AL</u> <table border="1"><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>18</u> feet</td></tr><tr><td><u>250</u> inches</td><td><u>8</u> inches</td><td><u>18</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>22</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>1/4</u> inches by <u>6</u> inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>120</u> perforations</td><td><u>980</u> feet</td><td><u>1045</u> feet</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>8</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Pudding 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>18</u> feet	<u>250</u> inches	<u>8</u> inches	<u>18</u> feet	<u>440</u> feet	<u>250</u> inches	<u>6</u> inches	<u>22</u> feet	<u>1083</u> feet	Number	From	To	<u>120</u> perforations	<u>980</u> feet	<u>1045</u> feet																																																																																																							
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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) T. <u>36</u> N ☒ or S ☐ S. <u>1</u> E ☐ or W ☐	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)																																																																																																																												

Basi Sequer Process Basis	Status	RightID	Priority Date	Diver Source List	Water Use List	Current Owner	Leas 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 SCHA	10.0 55.0
85 7618 Water Permit	Active	101458	9/1/1995	3.00 GROUND W COMM., DIV.STOR., IRR. FROM STOR., IRR. STOR., IRR., REC.STOR		STEPHEN SCHA	160.0
85 15428 Water Permit	active	577791	9/28/2003	1.00 GROUND W DOMESTIC, IRRIGATION		SCHAUB RANC	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