

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 25-14181

Exam Date: 12/10/2012

1. Current Owner: FALCON RIDGE HOA
1740 S YELLOWSTONE
IDAHO FALLS ID 83402

2. Accompanied by: N/A

3. SOURCE

GROUND WATER

TRIBUTARY**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: Progressive Irrigation water rights used for outside irrigation.
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	NE1/4SW1/4	Sec. 1, Twp 01N, Rge 38E, B.M.	BONNEVILLE County
GROUND WATER	NE1/4SW1/4	Sec. 1, Twp 01N, Rge 38E, B.M.	BONNEVILLE County

Method of Determination: GPS and site inspection

2. PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	38E	1									X	X	X	X		X			

Method of Determination: Site inspection and aerial photography

3. ☒ 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. West Well: Tag D0043865 40-hp pump
East Well: Tag D0043866

D. FLOW MEASUREMENTS

Unable to measure system because of system configuration. Measurement may not reflect full capacity because only 2 of the 28 homes have been built.

E. FLOW CALCULATIONS

Measured Method: Theoretical based on 40 hp pump and well log

$$(40 \text{ hp} \times 0.7 \times 8.8) / (194 \text{ ft} + (2.31 \times 60 \text{ psi})) = 246.4 / 332.6 = 0.74 \text{ cfs}$$

F. VOLUME CALCULATIONS**1. Volume Calculations for Other Uses:**

Standard domestic volume used:

$$28 \text{ homes} \times 0.6 \text{ af/year} = 16.8 \text{ af/year}$$

G. NARRATIVE/REMARKS/COMMENTS

Two wells connected to a 28-home subdivision. One well used as primary supply for homes. The other well provides back up supply and fire flow. Main well uses a 40 hp submersible pump. Unable to get a direct measurement because of system configuration. Only two homes have been built, but water is stubbed in at all 28 lots. Theoretical calculation based on well log shows well can produce much more than 0.31 cfs.

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

** Outside irrigation supplied by Progressive Irrigation District. Pump in canal.

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.310 CFS	16.80 AF
<u>Totals:</u>		0.310 CFS	16.80 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

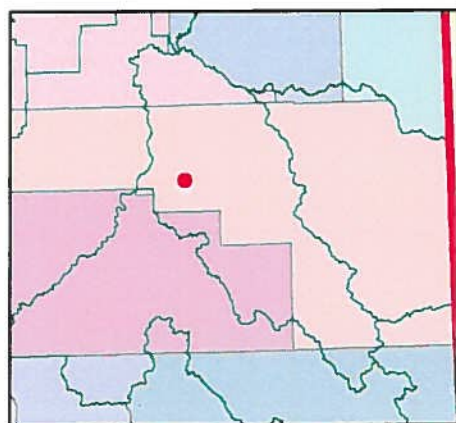
Field Examiner's Name Dave Carlson Date 12/11/2012
Reviewer James Cefalo Date 12/11/2012



Idaho Department of Water Resources

Water Right
25-14181
(DOMESTIC)

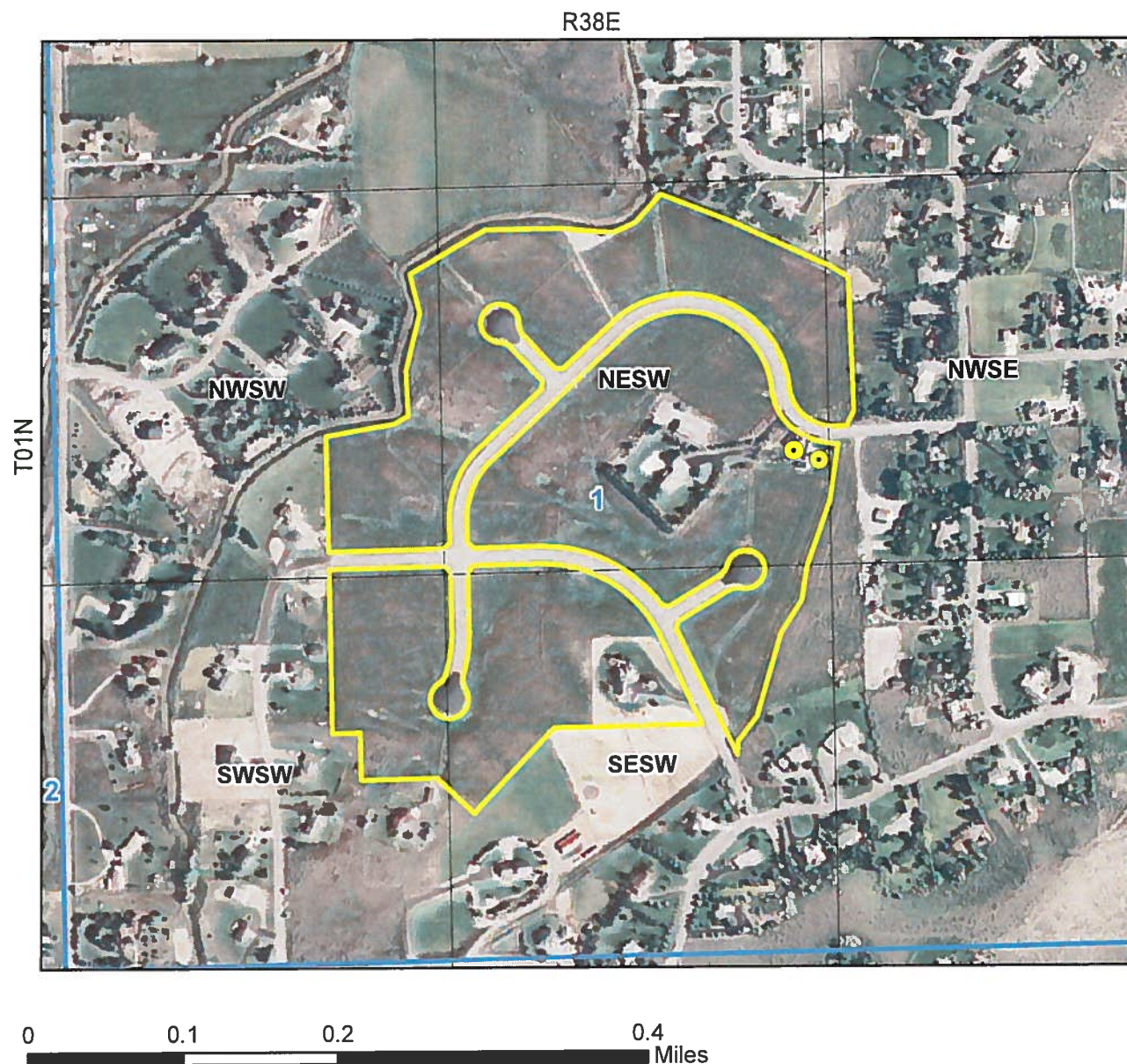
- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters

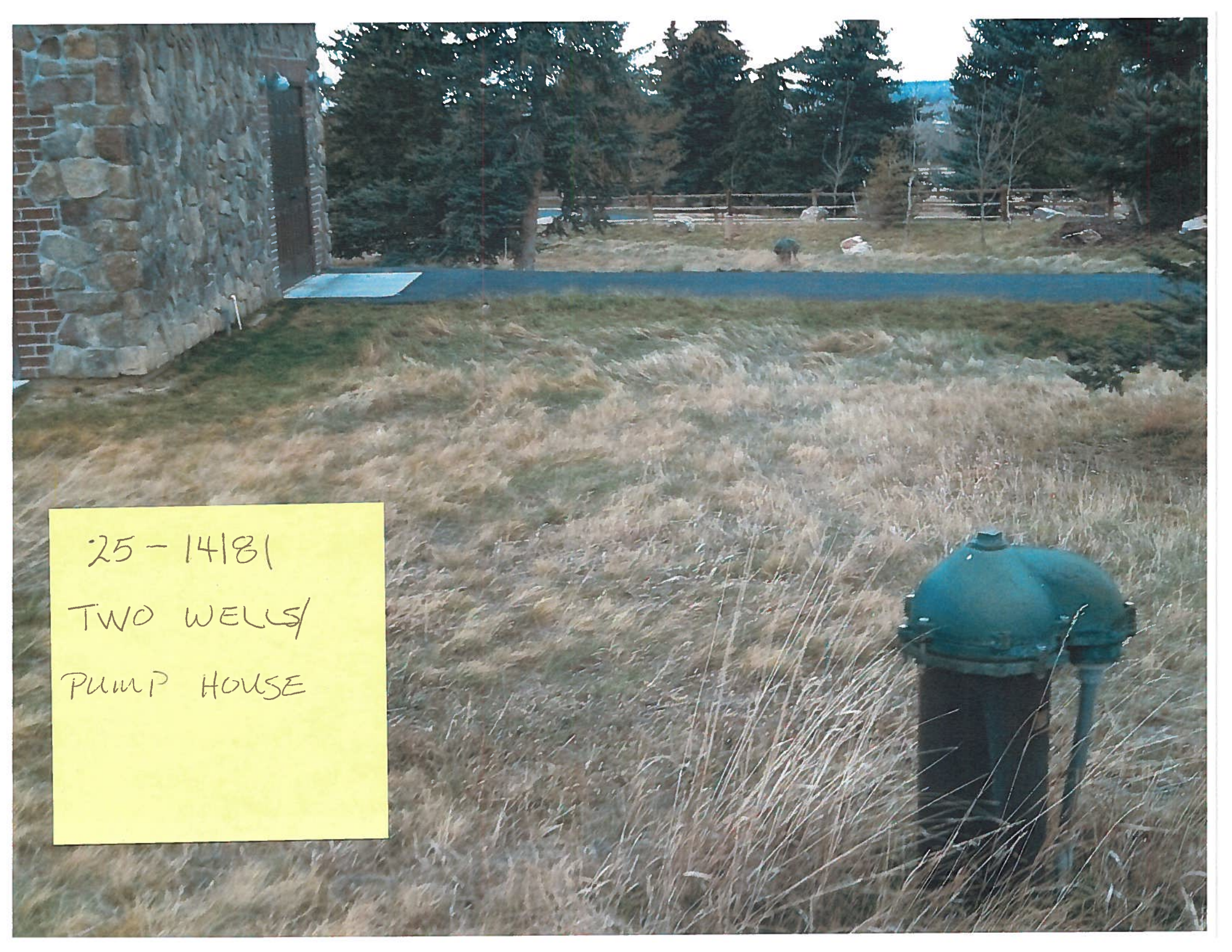


Bonneville County
IDWR Basin 25

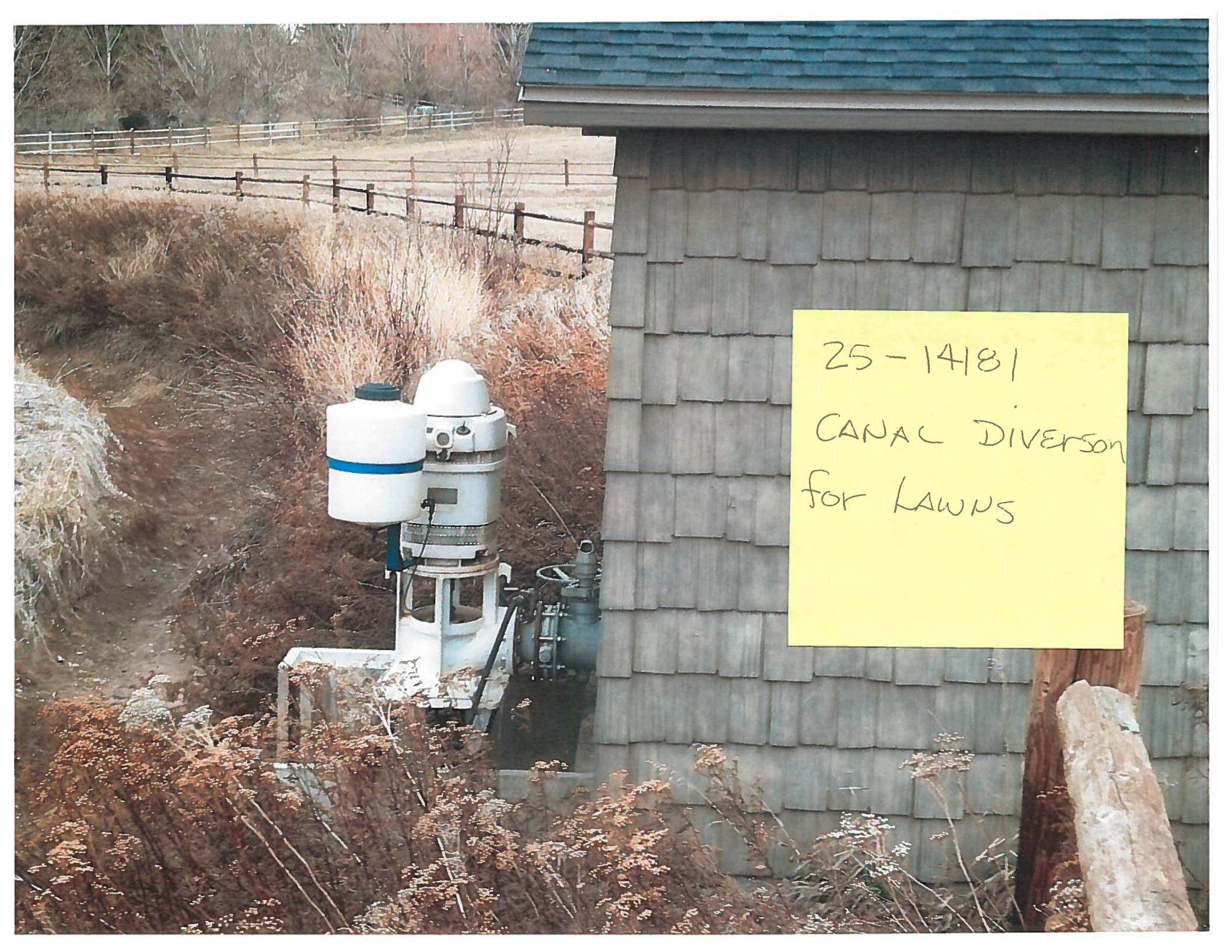
Prepared by Carlson, Dave

2009 Aerial Photography



A photograph showing a pump house with a stone and brick wall on the left. A dark door is visible in the stone wall. A paved path leads from the door towards a grassy area. In the foreground, there is a large, green, dome-shaped well head partially obscured by tall, dry grass. The background features a line of evergreen trees and a wooden fence.

25-14181
TWO WELLS/
PUMP HOUSE



25-14181
CANAL DIVERSION
FOR LAWNS

CORRECTED

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint pen

Office Use Only			
Inspected by: _____			
Twp _____	Rge _____	Sec _____	
1/4 _____	1/4 _____	1/4 _____	
Lat: _____	: _____	Long: _____	: _____

1 WELL TAG NO.

DRILLING PERMIT NO. #D0043865

Other IDWR NO. _____

2 OWNER:

Name: Sun Development, LLC Well#2

Address: 2235 E 25th Street

City: Idaho Falls State: ID Zip 83404

3 LOCATION OF WELL by legal description.

N S	Twp	1	☒ North	☐ South
	Rge	38	☒ East	☐ West
	Sec	1		
			1/4 NE 1/4 SW 1/4	
		10 Acres	40 Acres	160 Acres
Gov't Lot		County Bonneville		
Lat: 43:26.609		Long: 111:56.086		

Address of Well Site: 5950 Marbrisa Lane

City: Idaho Falls

(Give at least name of Road + Distance to Road or Landmark)

Lot No. _____ Blk No. _____ Subd. Name: Falcon Ridge

11 WELL TESTS:

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Flowing Artesian

Yield	Drawdown	Pumping Level	Time
390 gpm	1'	194'	6 hrs

Water Temp _____ Bottom hole temp _____

Water Quality test or comments: _____

Depth first water encountered: _____

12 LITHOLOGIC LOG:

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12"	0	20	Topsoil, clay		X
	20	21	Basalt, broken gray		X
	21	23	Broken red rhyolite		X
	23	36	Slightly broken red rhyolite		X
	36	38	Firm red rhyolite		X
	38	41	Firm brown rhyolite		X
	41	66	Slightly broken gray rhyolite		X
	66	83	Brown rhyolite		X
	83	91	Brown pumice, soft		X
	91	156	Orange, brown pumice		X
	156	166	Orange pumice		X
	166	191	Orange, small amounts of brown pumice		X
	191	216	Orange, white pumice	X	
	216	259	White pumice	X	
	259	260	Gray rhyolite broken	X	
	260	302	Gray rhyolite broken	X	

Completed Depth: 302 ft

Date Started: 04/19/06

Date Completed: 04/28/06

MAY 08 2006

Department of Water Resources
Eastern Region

13 DRILLER'S CERTIFICATION:

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

Firm: ANDREW WELL DRILLING SERVICES, INC. Firm: #5

Firm Official: [Signature] Date: 5/3/2006

Supervisor/Operator: [Signature] Date: 5/3/2006

SCANNED

JUN 12 2006

4 USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5 TYPE OF WORK:

☒ 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/Pounds	
Cement	0'	189'	10584 lbs	Overbore
Bentonite	189'	199'	400 lbs	Overbore
Sand	199'	200'	120 lbs	Poured

Was drive shoe used? ☐ Yes ☒ No Shoe Depth(s) _____

Was drive shoe seal tested? ☐ Yes ☒ No How? _____

8 CASING/LINER:

Dia.	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	+3'	239'	0.322	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe: _____ Length of Tailpipe: _____

9 PERFORATIONS/SCREENS:

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
239'	302'	.250 x 2.5"	1512	8"	Steel	☒	☐
						☐	☐
						☐	☐

STATIC WATER LEVEL OR ARTESIAN PRESSURE:

193 ft below ground Artesian Pressure: _____ lb

Depth flow encountered: _____ ft

Describe access port or control devices: Sanitary Well Cap

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT
Use Typewriter or Ballpoint pen

Office Use Only
Inspected by: _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____

1 WELL TAG NO.

DRILLING PERMIT NO #D0043866
Other IDWR NO. _____

2 OWNER:

Name: Sun Development, LLC Well #1
Address: 2235 E 25th Street
City: Idaho Falls State: ID Zip 83404

3 LOCATION OF WELL by legal description.

N
Twp 1 ☒ North ☐ South
Rge 38 ☒ East ☐ West
Sec 1 1/4 NE 1/4 SE 1/4
Gov't Lot _____ County Bonneville
Lat: 43.26.605 Long: 111.56.063
S
Address of Well Site: 5950 Marbrisa Lane
City: Idaho Falls
(Give at least name of Road + Distance to Road or Landmark)

Lot No. _____ Blk No. _____ Subd. Name: Falcon Ridge

4 USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
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6 DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7 SEALING PROCEDURES:

SEAL/FILTER PACK			AMOUNT		Method
Material	From	To	Sacks/Pounds		
Cement	0'	189'	14014 lbs		Overbore
Bentonite	189'	199'	650 lbs		Overbore
Sand	199'	200'	75 lbs		Poured

Was drive shoe used? ☐ Yes ☒ No Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Yes ☒ No How? _____

8 CASING/LINER:

Dia.	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	+3'	239'	0.322	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe: _____ Length of Tailpipe: _____

9 PERFORATIONS/SCREENS:

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
239'	302'	250 x 2.5"	1512	8"	Steel	☒	☐
						☐	☐
						☐	☐

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Flowing Artesian

Yield	Drawdown	Pumping Level	Time
390 gpm	1'	194'	6 hrs

Water Temp 60° Bottom hole temp _____

Water Quality test or comments: _____

Depth first water encountered: _____

12 LITHOLOGIC LOG:

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12"	0	14	Topsoil		X
	14	18	Clay silt, tan		X
	18	22	Clay silt, gravel		X
	22	23	Broken gray rhyolite		X
	23	24	Gray rhyolite, firm		X
	24	26	Broken gray rhyolite		X
	26	29	Firm gray rhyolite		X
	29	36	Broken gray rhyolite		X
	36	48	Slightly broken gray rhyolite		X
	48	52	Broken brown rhyolite		X
	52	79	Slightly broken purple, brown rhyolite		X
	79	89	Slightly broken orange pumice, soft		X
	89	164	Tan pumice, soft		X
	164	249	Brown pumice, soft	X	
	249	259	Brown rhyolite	X	
	259	273	Multi colored rhyolite	X	
	273	302	Multi colored rhyolite	X	

Completed Depth: 302 ft RECEIVED

Date Started: 04/07/06

Date Completed: 04/25/06

MAY 8 2006

13 DRILLER'S CERTIFICATION:

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

Firm: ANDREW WELL DRILLING SERVICES, INC. Firm: #5

Firm Official: *Roger Bush* Date: 5/3/2006

and

Supervisor/Operator: *Michael Kenna* Date: 5/3/2006