

MEMO

TO: 25-14114 Falls Water Co

FROM: Sandy Hemenway

DATE: 11/16/2010

REF: Additional Information in Reference to Field Exam, Wells, and POD/POU Map

Today, I called Paul Scoresby, PE with Schiess & Associates (208) 522-1244, and the engineer who conducted the field exam for 25-14114 Falls Water Co.

The following questions/comments were asked or talked about:

- (1) Why is there a difference between the number of wells on the Amendment of Permit (9 wells), and the Field Exam (7 wells)? Paul stated that well #3 and the Sergeant well had been abandoned, since they were small systems, and they were producing a lot of sand in the system.
- (2) Why is well #8 listed on the map submitted with the field exam? Well #8 is not owned by Falls Water Co. but is leased from Evans Grain & Elevator Co. (a copy of the lease is in the file). Falls Water Co. runs the system.
- (3) Why is "Future Well Site" shown on the map with a "well" indicator, if there is no reference to the well in the field exam? There is no well at this site yet, just the well lot.
- (4) Well #5 according to ArcMap is north of where it is shown on the map submitted with the field exam. When zoomed in on ArcMap, the well lot is shown in Sec. 11 SWNW not Sec. 11 NWSW. There are 2 spatial points where the well was GPSd, that are within 50 ft. of each other (may be due to the difference in types of GPS used). Paul agreed that well #5 is in Sec. SWNW and not NWSW.
- (5) Is well #9 Drilling Permit #D0048514? Yes.
- (6) Paul stated that the drillers report for well #9 has an error on the yield. It should be "3000 gpm" and not "300pgm." He indicated that they have physical measurements to back up the 3000 gpm.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

6/02

Andrew

1 WELL TAG NO. D 0048514
 DRILLING PERMIT NO. _____
 Water Right or Injection Well No. _____

2 OWNER:
 Name Falls Water Company Inc. Production Well
 Address: 1770 Sabin Drive
 City: Idaho Falls State: ID Zip: 83406

3 LOCATION OF WELL by legal description.
 You must provide address or Lot, Blk. Sub. Or Directions to well.
 Twp 2 North or South
 Rge 38 East or West
 Sec 10 1/4 NE 1/4 SE 1/4
 Gov't Lot _____ County Bonneville
 Lat: 43:31.083 Long: 111:57.899
 Address of Well Site: 2431 Deborah
 City: Idaho Falls
 (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: (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
See page 2				

 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
See page 2								

 Length of Headpipe: _____ Length of Tailpipe: _____
 Packer ☐ Yes ☐ No Type: _____

9 PERFORATIONS/SCREENS: PACKER TYPE
 Perforation Method: Factory wound "V" Wire
 Screen Type & Method of Installation: Woundwire / telescoped

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
367'	407'	Varied		12"	Stainless	☒	☐
				Telescoped		☐	☐

10 FILTER PACK:

Seal Material	From	To	Weight / Volume	Seal Placement Method

11 STATIC WATER LEVEL OR ARTESIAN PRESSURE:
 132 ft. below ground Artesian Pressure: _____ lb
 Depth flow encountered: _____ ft
 Describe access port or control devices: Well Cap

Office Use Only
 Well ID No. _____
 Inspected by: _____
 Twp _____ Rge _____ Sec _____
 Lat: _____ Long: _____

12 WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
300 gpm	78'	209'	24 hrs

Water Temp _____ Bottom hole temp _____

Water Quality test or comments: _____

Depth first water encountered: _____

13 LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology Water Quality & Temperature	Y	N
24"	0	3	Topsoil		x
	3	18	Gravel, sand		x
	18	41	Gravel, sand		x
	41	45	Gravel, silt		x
	45	48	Basalt w/gravel		x
	48	83	Black basalt, hard		x
	83	84	Broken black basalt		x
	84	85	Hard black basalt		x
	85	87	Sand, basalt, minor gravel		x
	87	93	Basalt		x
20"	93	95	Fine to medium sand		x
	95	110	Coarse sand, gravel, cobbles		x
	110	118	Fine gravel, sand		x
	118	120	Fine sand, gravel		x
	120	121	Fine sand, gravel, basalt		x
	121	123	Basalt		x
	123	139	Gray & black basalt		x
	139	145	Gray & black basalt, broken		x
	145	148	Black basalt, broken		x
	148	188	Firm black & gray basalt		x
	188	218	Broken black basalt		x
	218	232	Broken black basalt w/small cinders		x
	232	246	Broken black basalt, caving		x
	246	251	Firm basalt		x
	251	258	Black hard basalt		x
16"	258	289	Black basalt, slightly broken	x	
	289	299	Firm black basalt		x
	299	340	Green basalt		x
	340	360	Green basalt, firm		x
	360	366	Broken gray basalt, clay, sand		x
	366	369	Gray fine sand	x	
12"	369	374	Sand, gravel to 1" plus	x	
	374	394	Very coarse gravel, some fine sand	x	
	394	400	Gravel, sand	x	
	400	406	Sand, fine gravel, clay	x	
	406	408	Large gravel (cobbles)	x	
	408	413	Very fine sand	x	
	413	418	Gravel, sand	x	

Completed Depth 408 (Measurable)
 Date: Started 3/22/07 Completed 3/27/08

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 Andrew Well Drilling Services, Inc. Firm No. 5
 Principal Driller Roger Bingham Date: 3-31-08
 Driller or Operator II John D. Bingham Date: 3-31-08
 Operator I J. Bingham Date: 3-31-08

Well #9

5/02

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3 LOCATION OF WELL by legal description.

You must provide address or Lot, Blk. Sub. Or Directions to well.

Twp 2 ☒ North or ☐ South
 Rge 38 ☒ East or ☐ West
 Sec 10 ☐ NE ☐ SE ☐ SW
 10 Acres 40 Acres 160 Acres

Gov't Lot _____ County Bonneville
 Lat: 43:31.083 Long: 111:57.899
 Address of Well Site: 2431 Deborah
 City: Idaho Falls

7 SEALING PROCEDURES:

Seal Material	From	To	Weight / Volume	Seal Placement Method
Cement	0	103'	18.05 CY	Tremmie
Cement	250'	261'	5 CF	Tremmie
Pea Gravel	261'	299'	9 CY	Gravity
Bentonite	299'	335'	1250 lbs	Gravity
Silica Sand	335'	366'	3500 lbs	Tremmie

Was drive shoe used? ☒ Yes ☐ No Shoe Depth(s) 122' - 375'
 Was drive shoe seal tested? ☐ Yes ☒ No How? _____

8 CASING/LINER:

Dia.	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
20"	0	122'	0.375	Steel	☒	☐	☒	☐
16"	+2'	256'	0.375	Steel	☒	☐	☒	☐
12"	340'	375'	0.375	Steel	☒	☐	☒	☐
10"	248'	367'	Sch 40	Steel	☒	☐	☒	☐

Length of Headpipe: _____ Length of Tailpipe: _____
 Packer ☒ Yes ☐ No Type: Fig. K

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APR 2 2008

Department of Water Resources
 Eastern Region
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