

MEMORANDUM

TO: Files 63-12416 and 63-31677

FROM: Monica Van Bussum

DATE: March 11, 2010

RE: Reinstatement of permit 63-31677; licensing of permits 63-12416 and 63-31677

This memo is to document the decision I made while licensing 63-12416 and 63-31677.

Contacts: Change of address completed.

Source: Field exam confirmed presence of multiple wells. Well #20-A is licensed under 63-12416 and 20-A and 20-B are both included under 63-31677. Because both wells are included in 63-31677, a combined use limit of 9.50 cfs is needed.

Purpose of use: As permitted

POD: Well 20-A is licensed under 63-12416 and 20-A and 20-B are both included under 63-31677. Three wells were originally permitted under 63-31677 but February 2010 conversation with Ed Squires of HydroLogic indicates third well was not developed.

POU: City of Meridian. Large POU identified.

Quantity: System capacity for 20-A was 4.5 cfs and for 20-B was 5 cfs for a total system capacity of 9.5 cfs between the two. Combined use limit needed because of 20-A being included on both rights.

Reinstatement of 63-31677: Proof was due in 2008 for 63-31677 but not submitted until December 22, 2009. Review of documents submitted by HydroLogic on behalf of City of Meridian indicate grounds for reinstatement. Advance in priority to December 22, 2009.

Conditions: Changed depth of water bearing zone for 63-12416 consistent with field examiner's suggestion. Removed outdated conditions from 63-12416. Added conditions describing wells, since both wells are housed in the same building. Added applicable large POU conditions.

63-12416 ← Note from Ed Squires requested substituting 496 to 996 for water bearing zone condition based on test well #20 (well log attached showing water bearing zone to 990 feet). Wrote order changing zone and included new zone in license.

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Well #: 203

1. WELL TAG NO. D 0031609

DRILLING PERMIT NO. 83227-816540

Other IDWR No. Water Right Permit #63-31677

2. OWNER:

Name City of Meridian Supply Well #20-B

Address 660 E. Watertower

City Meridian State ID Zip 83642

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N W S	E	S	Twp. 4	North ☒	or	South ☐
			Rge. 1	East ☐	or	West ☒
			Sec. 36	SE 1/4	SE 1/4	SE 1/4
			Gov't Lot	County Ada	10 acres	40 acres
Lat: N43°38'31"		Long: W116°23'8"				
Address of Well Site 180 W Ustick Rd (NW)						

Corner of Meridian & Ustick Roads City Meridian

Lt. Blk. Sub. Name 340' W of Meridian

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	
Chip Bentonite	0	33	4yds	Poured
Cetco Grout	0	314	2350 Gal	Pumped 30% Solids
Chip Bentonite	441	455	1/3yd	Poured

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) N/AWas drive shoe seal tested? ☐ Y ☒ N How? N/A

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
24	0	33	.250	Steel	☒	☐	☒	☐
17	0	319	1	PVC	☐	☐	☐	☐
18	+2	2	.250	Steel	☒	☒	☒	☐

Length of Headpipe 32 Length of Tailpipe None

9. PERFORATIONS/SCREENS:

☐ Perforations

Method Stainless Steel

☒ Screens

Screen Type Johnson High Flow/Hi-Q

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
323	348	.030		8	SS	☐	☒
348	356	.000		8	SS	☐	☒
356	364	.080		8	SS	☐	☒
364	369	.015		8	SS	☒	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

6.1 ft. below ground Artesian pressure N/A lb.

Depth flow encountered N/A ft. Describe access port or control

devices: To be designed by City

390	410	.015	8"	SS	☒
410	430	.018	8"	SS	☒
430	440	.022	8"	SS	☒

FORWARD WHITE COPY TO WATER RESOURCES

816540

Office Use Only

Inspected by

Twp. 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
2250gpm	64	70	360 Min.
1750gpm	46.4	52.5	90 Minutes
1250gpm	31.2	37.3	90 Minutes

Water Temp. 58.8

Bottom hole temp. N/A

Water Quality test or comments: Meets all EPA & DEQ Drinking

Water Requirements

Depth first Water Encounter N/A

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
				Y N
36	0	3	Top Soil	
36	3	30	Very Coarse Sand & Cobbles	X
36/24	30	35	Sticky Clay	X
24	35	73	Interbedded Sand & Clay	X
24	73	105	Coarse Sand w/ Clay Lenses	X
24	105	115	Clay	X
24	115	134	Coarse Sand w/Gravel	X
24	134	140	Clay	X
24	140		Coarse Sand & Gravel w/2ft	
		187	Clay @ 178ft	X
24	187	203	Clay	X
24	203	306	Coarse Sand w/Gravel	X
24	306	315	Clay	X
14	315	362	Very Coarse Sand & Gravel	X
14	362	370	Medium to Coarse Sand	X
14	370	403	Fine to Coarse Sand	X
14	403	405	Clay	X
14	405	441	Fine to Coarse Sand	X
14	441	455	Clay	X

0-340 Tan Colored

340-455 Alternating Colors
of Tan & Dark Gray

4ft Long Packer/Reducer

286' - 290.5' w/ two
Figure K seals & 12 inch
barrel

RECEIVED

MAR 02 2005

WATER RESOURCES
WESTERN REGION

Completed Depth 441 ft bgl

(Measurable)

Date: Started 7/14/2004

Completed 10/29/2004

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 Treasure Valley Drilling

Firm No. 560

Firm Official

Date 2/28/2005

and

Driller or Operator

Date 2/28/2005

(Sign once if Firm Official & Operator)