



Well Construction Search

BS 42E SECTION 31

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Click on column headers to sort displayed data...

Well Information Summary...22 well(s)

Doc	Contact	D-Tag	Const. Date	Total Depth	Address	Drilling Co.	Twp	Rng	Sec	Tract	Sub	Lot	Blk	Use	Csg. Dia.	Static GPM	Water Level
1	Well Log			0		ANDREW WELL DRILLING SERVICES INC	08S	42E	31	NENE					0	0	
2	Well Log			0		ANDREW WELL DRILLING SERVICES INC	08S	42E	31	NENE					0	0	
3	Well Log			0	WELL #TW-50	ANDREW WELL DRILLING SERVICES INC	08S	42E	31	NENE					0	0	
	Well Log		11/12/1965	255		ANDREW WELL DRILLING SERVICES INC	08S	42E	31	NESE					0	105	
5	Well Log		12/14/1992	55	TW-58	ANDREW WELL DRILLING SERVICES INC	08S	42E	31	SWSE					8	500	29
6	Well Log		9/1/1978	221		ANDREW WELL DRILLING SERVICES INC	08S	42E	31	SWSE						65	
7	Well Log		9/7/1978	250		ANDREW WELL DRILLING SERVICES INC	08S	42E	31	SWSE						1	
8	Well Log		1/10/1982	90		VOLLMER WELL DRILLING	08S	42E	31	SWSE						15	
9	Well Log	D0059607	6/30/2011	25	EAST OF GOVERNMENT DAM RD WEST OF 3 MILE KNOLL RD/#7 TW-69	INDEPENDENT DRILLING	08S	42E	31	NESW				Monitoring	8		9
10	Well Log	D0059606	7/1/2011	60	EAST OF GOVERNMENT DAM RD WEST OF 3 MILE KNOLL RD - #6 TW-68	INDEPENDENT DRILLING	08S	42E	31	NESW				Monitoring	8		33
11	Well Log	D0066019	11/4/2013	94	HWY 34 HOOPER AVE	CASCADE DRILLING INC	08S	42E	31	SWNE				Monitoring	4		83
12	Well Log	D0066022	11/16/2013	91			08S	42E	31	SWNE				Monitoring	4		74

		MONSANTO CO (Owner/Operator)				HWY 34 HOOPER AVE	CASCADE DRILLING INC						
	<u>Well Log</u>	MONSANTO CO (Owner/Operator)	D0066021	11/20/2013	90	HWY 34 HOOPER AVE	CASCADE DRILLING INC	08S 42E 31	NWSE	Monitoring 4		76	
14	<u>Well Log</u>	MONSANTO CO (Owner/Operator)	D0066020	12/3/2013	90	HWY 34 HOOPER AVE	CASCADE DRILLING INC	08S 42E 31	NWNE	Monitoring 4		77	
15	<u>Well Log</u>	MONSANTO CO (Owner/Operator)	D0066016	12/13/2013	107	HWY 34 HOOPER AVE	CASCADE DRILLING INC	08S 42E 31	SWNE	Monitoring 4		85	
16	<u>Well Log</u>	MONSANTO CO (Owner/Operator)	D0066024	12/16/2013	104	HWY 34 HOOPER AVE	CASCADE DRILLING INC	08S 42E 31	SWNE	Monitoring 4		66	
17	<u>Well Log</u>	MONSANTO CO (Owner/Operator)	D0066017	12/20/2013	128	HWY 34 HOOPER AVE	CASCADE DRILLING INC	08S 42E 31	NWNE	Monitoring 4		94	
18	<u>Well Log</u>	MONSANTO CO (Owner/Operator)	D0066023	1/5/2014	142	HWY 34 HOOPER AVE	CASCADE DRILLING INC	08S 42E 31	NWNE	Monitoring 4		69	
19	<u>Well Log</u>	MONSANTO CO (Owner/Operator)	D0066018	1/18/2014	116	HWY 34 HOOPER AVE	CASCADE DRILLING INC	08S 42E 31	SWNE	Monitoring 4		83	
20	<u>Well Log</u>	MONSANTO CORP (Owner/Operator)		1/10/1982	60		VOLLMER WELL DRILLING	08S 42E 31	SWSE		0	15	
	~~<u>Well Log</u>~~	~~WELLS FARGO INC (Owner/Operator)~~		~~8/4/1966~~	~~390~~		~~BURFEE DRILLING CO~~	~~08S 42E 31~~	~~SENE~~			~~35~~	~~40~~
21	<u>Well Log</u>			8/26/1978	126		ANDREW WELL DRILLING SERVICES INC	08S 42E 31	SWSE			3	

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.

[illegible]

No Result Found

Location Corrected by IDWR To:
T08S R42E Sec. 31 NWNESE
By: mciscell 2012-09-07

REPORT OF WELL DRILLER
State of Idaho

State law requires that this report shall be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER:

Name Monsanto Chemical Co.
Address Soda Springs, Idaho

Owner's Permit No. 9-32537
NATURE OF WORK (check): Replacement well ☐
New well ☒ Deepened ☐ Abandoned ☐

Water is to be used for: INDUSTRIAL

METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒
Dug ☐ Other ☐ (explain)

CASING SCHEDULE: Threaded ☐ Welded ☒
20"Diam. from +1 ft. to 100' ft.
16"Diam. from 93 ft. to 255 ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
Thickness of casing: .312 Material:

Steel ☒ concrete ☐ wood ☐ other ☐

(explain)
PERFORATED? Yes ☒ No ☐ Type of
perforator used: Premill machine cut

Size of perforations: 1/8" by 3"
perforations from 110 ft. to 152 ft.
perforations from 170 ft. to 235 ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

WAS SCREEN INSTALLED? Yes ☐ No ☒
Manufacturer's name _____

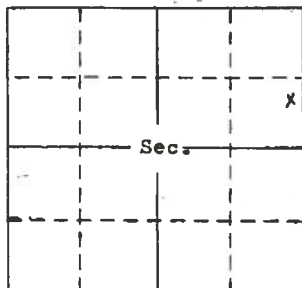
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐
No. ☒ size of gravel _____ Gravel
placed from _____ ft. to _____ ft. Surface seal
provided? Yes ☒ No ☐ To what depth?
_____ ft. Material used in seal: Cement

Did any strata contain unusable water? Yes ☐
No. ☒ Type of water: _____
Depth of strata _____ ft. Method of sealing
strata off: _____

Surface casing used? Yes ☒ No. ☐
Cemented in place? Yes ☒ No ☐

Locate well in section



LOCATION OF WELL: County GARIBOLD
SE 1/4 NE 1/4 Sec. 31 T. 8 N/S R. 42 E/W

Use other side for additional remarks

Size of drilled hole: 24" Total
depth of well: 255' Standing water
level below ground: 105' Temp.
Fahr. 62° Test delivery: _____ gpm
or _____ cfs Pump? ☐ Bail ☐
Size of pump and motor used to make test:

Length of time of test: _____ Hrs. _____ Min.
Drawdown: _____ ft. Artesian pressure: ft.
above land surface _____ Give flow _____ cfs
or _____ gpm. Shutoff pressure: _____
Controlled by: Valve ☐ Cap ☐ Plug ☐
No control ☐ Does well leak around casing?
Yes ☐ No ☒

DEPTH MATERIAL 43476 WATER
FROM TO YES OR NO

FEET	FEET		
0	18	Clay	
18	20	Rock lava	
20	30	Black rock	
30	58	Firm black rock	
58	65	Broken rock & cinders red	
65	75	Brokne black lava rock	
75	85	Caving	
85	135	Firm black lava rock	
135	152	Cinders	yes
152	158	Firm black lava rock	
158	160	Broken	yes
160	190	Firm black lava rock	
190	195	Broken	yes
195	203	Firm	
203	214	Cinders	yes
214	225	Firm rock lava	
225	230	Cinders	yes
230	255	Firm rock lava	

Work started: 10-8-1965
Work finished: 11-12-1965
Well Driller's Statement: This well was
drilled under my supervision and this report
is true to the best of my knowledge.
Name: ANDREW WELL DRILLING CONTRACTORS
Address: 1268 E. 17th - Idaho Falls
Signed by: Andrew F. Andrew
License No. 5 Date: 5-25-1966

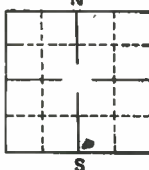
USE TYPEWRITER OR
D BALLPOINT PEN

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.

[illegible]

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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>Monsanto</u> Address <u>Soda Springs, Idaho 83276</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>1'</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 _____ of. Quality <u>good</u>																																																																																																																																																					
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4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____		9. LITHOLOGIC LOG 103259 <table border="1"><thead><tr><th rowspan="2">Hole 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>8</td><td>0</td><td>5</td><td>Soil</td><td></td><td>X</td></tr><tr><td></td><td>5</td><td>10</td><td>Clay Brown Gummy</td><td></td><td>X</td></tr><tr><td></td><td>10</td><td>15</td><td>Clay Brown Gummy</td><td></td><td>X</td></tr><tr><td></td><td>15</td><td>18</td><td>Basalt Broken Gray</td><td></td><td>X</td></tr><tr><td></td><td>18</td><td>25</td><td>Clay Sand</td><td></td><td>X</td></tr><tr><td></td><td>25</td><td>30</td><td>Basalt Broken Gray</td><td></td><td>X</td></tr><tr><td></td><td>30</td><td>40</td><td>Basalt Firm Gray</td><td></td><td>X</td></tr><tr><td></td><td>40</td><td>45</td><td>Basalt Firm Gray</td><td></td><td>X</td></tr><tr><td></td><td>45</td><td>54</td><td>Basalt Hard Gray</td><td></td><td>X</td></tr><tr><td></td><td>54</td><td>123</td><td>Basalt Firm Gray</td><td></td><td>X</td></tr><tr><td></td><td>123</td><td>126</td><td>Cinders</td><td>X</td><td></td></tr><tr><td></td><td>126</td><td>130</td><td>Basalt Broken Gray</td><td></td><td>X</td></tr><tr><td></td><td>130</td><td>140</td><td>Basalt Firm Gray</td><td></td><td>X</td></tr><tr><td></td><td>140</td><td>184</td><td>Basalt Hard Gray</td><td></td><td>X</td></tr><tr><td></td><td>184</td><td>187</td><td>Cinders</td><td>X</td><td></td></tr><tr><td></td><td>187</td><td>190</td><td>Basalt Broken Gray</td><td>X</td><td></td></tr><tr><td></td><td>190</td><td>234</td><td>Basalt Hard Gray</td><td></td><td>X</td></tr><tr><td></td><td>234</td><td>237</td><td>Basalt Broken Gray</td><td></td><td>X</td></tr><tr><td></td><td>237</td><td>240</td><td>Cinders</td><td>X</td><td></td></tr><tr><td></td><td>240</td><td>243</td><td>Basalt Broken Gray</td><td></td><td>X</td></tr><tr><td></td><td>243</td><td>245</td><td>Cinders</td><td>X</td><td></td></tr><tr><td></td><td>245</td><td>249</td><td>Basalt Broken Gray</td><td>X</td><td></td></tr><tr><td></td><td>249</td><td>250</td><td>Basalt Firm Gray</td><td>X</td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	8	0	5	Soil		X		5	10	Clay Brown Gummy		X		10	15	Clay Brown Gummy		X		15	18	Basalt Broken Gray		X		18	25	Clay Sand		X		25	30	Basalt Broken Gray		X		30	40	Basalt Firm Gray		X		40	45	Basalt Firm Gray		X		45	54	Basalt Hard Gray		X		54	123	Basalt Firm Gray		X		123	126	Cinders	X			126	130	Basalt Broken Gray		X		130	140	Basalt Firm Gray		X		140	184	Basalt Hard Gray		X		184	187	Cinders	X			187	190	Basalt Broken Gray	X			190	234	Basalt Hard Gray		X		234	237	Basalt Broken Gray		X		237	240	Cinders	X			240	243	Basalt Broken Gray		X		243	245	Cinders	X			245	249	Basalt Broken Gray	X			249	250	Basalt Firm Gray	X	
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>CARIBOU</u> <u>SW 1/4 SE 1/4 Sec. 31, T. 8 N, R. 43 E, W.</u>		10. Work started <u>8-14-78</u> finished <u>9-7-78</u>																																																																																																																																																					
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Andrew Well Drilling</u> Firm No. <u>5</u> Address <u>1268 E. 17th St.</u> <u>Idaho Falls</u> <u>Idaho</u> Date <u>9-14-78</u> Signed by (Firm Official) <u>Harold P. Anderson</u> and (Operator) <u>Al [Signature]</u>																																																																																																																																																							

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
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MAR 26 1982

1. WELL OWNER Name <u>MONSANTO CORPORATION</u> Address <u>P.O. Box 816 SODA SPRINGS IDAHO 83276</u> Owner's Permit No. <u>N/A</u>		7. WATER LEVEL Static water level <u>15'</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>58</u> °F. Quality <u>ADD</u>																																																																																			
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8"	39	43	SOFT ROCK	X																																																																																	
8"	43	60	HARD ROCK		X																																																																																
8"	60	65	SOFT ROCK	X																																																																																	
8"	65	85	HARD ROCK		X																																																																																
8"	85	90	SOFT ROCK	X																																																																																	
4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____																																																																																					
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☒ Concrete ☐ Other <u>PLASTIC</u> Thickness _____ Diameter _____ From _____ To _____ Inches _____ inches _____ feet _____ feet Inches _____ inches _____ feet _____ feet Inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☒ Yes ☐ No Perforated? ☒ Yes ☐ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation <u>3/16</u> inches by <u>HOLES</u> inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type <u>NO WELL SCREEN</u> Model No. <u>SCHEDULE 40</u> Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☒ Yes ☐ No ☒ Size of gravel <u>3/8"</u> Placed from _____ feet to _____ feet (Surface seal depth _____ Material used to seal: ☒ Cement grout ☐ Puddling clay ☐ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☐ Welded ☒ Solvent Weld Describe access port <u>TOP OF WELL</u>																																																																																					
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>CARIBOU</u> <u>JW 1/4 SE 1/4 Sec. 31, T. 8 N., R. 42 E., W.</u>		11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>VALLMER WELL DRILLING</u> Firm No. <u>383</u> Address <u>P.O. Box 2 ARDEN AR</u> Date <u>2-19-82</u> Signed by (Firm Official) <u>Renald Lollar</u> and (Operator) <u>Renald Lollar</u>																																																																																			
10. Work started <u>11-1-81</u> finished <u>1-10-82</u>																																																																																					

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

J. Stetson

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT1. WELL TAG NO. D 0066021Drilling Permit No. 00066021

Water right or injection well # _____

2. OWNER: Monsanto- Soda Springs Plant

Name MonsantoAddress Hwy 34City Soda Springs State ID Zip 83276

3. WELL LOCATION:

Twp 8 North ☐ or South ☒ Rge. 42 East ☒ or West ☐Sec 31 1/4 NW 1/4 SE 1/4Gov't Lot _____ County Caribou

Lat _____ (Deg and Decimal minutes)

Long _____ (Deg and Decimal minutes)

Address of Well Site Hwy 34Hooper Avenue City Soda Springs

Lot _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____7. SEALING PROCEDURES: Concrete 0 3' 1" to 1 1/2"

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Cement	3	70	220 gal	Trimmie
best Ch.DS	70	75	200 lbs	poured

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
4	+2 1/2	80	40	PVC	☒	☐	☐
					☐	☐	☐
					☐	☐	☐
					☐	☐	☐

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☒ Y ☐ N Type White PVCMethod of installation Wench line

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
80	90	.020	10	4"	PVC	40

Length of Headpipe _____ Length of Tailpipe 3"Packer ☐ Y ☒ N Type _____10. FILTER PACK: silica sand

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
20x40	75	77	350 lbs	poured
10x20	77	93	1600 lbs	poured

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 76' Static water level (ft) _____Water temp. (°F) 54° Bottom hole temp (°F) _____

Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
			☐	☐	☐	☐
			☐	☐	☐	☐

Test method:

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
4 5/8	0	11	blk/gray Gravel with		X
		11	blk sandy silt		X
	11	20	brn wet silt	X	
	20	24	Tan silty clay		X
	24	43	brn silt and basalt gravel		X
	43	50	weathered basalt blk/gray/red		X
	50	76	blk/gray basalt		X
	76	86	water viscous basalt id/blk	X	
	86	93	loose Red and black basalt	X	
	93	96	Solid blk/gray basalt		
		96	TD		
	96	93	Abandoned bottom of hole with 100 lbs of 3/8 bentonite pellets		

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FEB 12 2013

Department of Water Resources
Eastern RegionCompleted Depth (Measurable): 90'Date Started: 19 Nov 2013 Date Completed: 11-20-13

14. DRILLER'S CERTIFICATION:

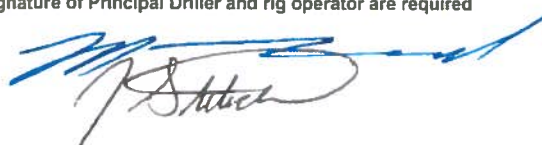
I/We certify that all minimum well construction standards were complied with at the time the rig was removed

Company Name Cascade Drilling, L.P. Co No 551Principal Driller Jeff Tansel Date 11-2-14Driller Joe Staloch Date 11-20-13

Operator II _____ Date _____

Operator I _____ Date _____

Signature of Principal Driller and rig operator are required



IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0066020

Drilling Permit No. 00066020

Water right or injection well # _____

2. OWNER: Monsanto- Soda Springs Plant

Name Monsanto

Address Hwy 34

City Soda Springs State ID Zip 83276

3. WELL LOCATION:

Twp 8 North ☐ or South ☒ Rge. 42 East ☒ or West ☐

Sec 31 10 acres 1/4 NW 1/4 NE 1/4

Gov't Lot _____ County Caribou

Lat _____ (Deg and Decimal minutes)

Long _____ (Deg and Decimal minutes)

Address of Well Site Hwy 34

Hooper Avenue _____ City Soda Springs

Lot _____ Blk. _____ Sub Name _____

4. USE:

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

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES: Concrete 0-3 150 lb

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
<u>cement</u>	<u>3</u>	<u>54</u>	<u>260 gal</u>	<u>Trimix</u>
<u>bent chips</u>	<u>54</u>	<u>71</u>	<u>750 lbs</u>	<u>Poured</u>

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
<u>4</u>	<u>+2 1/2</u>	<u>80</u>	<u>40</u>	<u>PVC</u>	☒	☐	☐
					☐	☐	☐
					☐	☐	☐
					☐	☐	☐

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type WH+ PVC

Method of installation Wench 1" incl Hand

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
<u>80</u>	<u>90</u>	<u>.020</u>	<u>10</u>	<u>4"</u>	<u>PVC</u>	<u>40</u>

Length of Headpipe _____ Length of Tailpipe 3"

Packer ☐ Y ☒ N Type _____

10. FILTER PACK: Silica sand

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method
<u>20 x 40</u>	<u>71</u>	<u>75</u>	<u>150 lb</u>	<u>Poured</u>
<u>10 x 20</u>	<u>75</u>	<u>90</u>	<u>750 lbs</u>	<u>Poured</u>

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 77 Static water level (ft) _____

Water temp (°F) 54 Bottom hole temp. (°F) _____

Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (m. minutes)

Test method:

Pump	Bailer	Air	Flowing artesian
☐	☐	☐	☐
☐	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
<u>9 5/8</u>	<u>0</u>	<u>14</u>	<u>blk/gray sand and gravel</u>		
	<u>14</u>	<u>22</u>	<u>blk silt, sand + gravel</u>		
	<u>22</u>	<u>28</u>	<u>brn silt</u>		
	<u>28</u>	<u>30</u>	<u>lean tan clay</u>		
	<u>30</u>	<u>58</u>	<u>blk/gray basalt</u>		
	<u>58</u>	<u>68</u>	<u>Red Basalt + silt Moist</u>		
	<u>68</u>	<u>76</u>	<u>Red fine sand + basalt + gravel</u>		
	<u>76</u>	<u>77</u>	<u>Blk/gray basalt + hard</u>		
	<u>77</u>	<u>82</u>	<u>water, blk/gray basalt</u>		<u>X</u>
	<u>82</u>	<u>91</u>	<u>blk + Red Basalt</u>		
	<u>91</u>	<u>92</u>	<u>Red water + basalt</u>		
	<u>92</u>	<u>92</u>	<u>TD</u>		
			<u>Abandoned bottom of Hole</u>		
	<u>92</u>	<u>90</u>	<u>3/8 Bath pellets 100 lbs</u>		

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FEB 12 2014

Department of Water Resources
Eastern Region

Completed Depth (Measurable): 90'

Date Started: 21 Nov 2013 Date Completed: 12-3-13

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 Cascade Drilling, L.P. Co No 551

*Principal Driller Jeff Townsend Date 1-17-14

*Driller Joe Staloch Date 12-3-13

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required

[Handwritten signatures]

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D DOO66024

Drilling Permit No DOO66024

Water right or injection well # _____

2. OWNER: Monsanto- Soda Springs Plant

Name Monsanto

Address Hwy 34

City Soda Springs State ID Zip 83276

3. WELL LOCATION:

Twp 8 North ☐ or South ☒ Rge. 42 East ☒ or West ☐

Sec. 31 1/4 SW 1/4 NE 1/4

Gov't Lot _____ County Caribou

Lat 42 41.243 (Deg and Decimal minutes)

Long 111 35.473 (Deg and Decimal minutes)

Address of Well Site Hwy 34

Hooper Avenue City Soda Springs

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

Lot. _____ Blk. _____ Sub. Name _____

4. USE:

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

☐ Other _____

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well

☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES: Concrete 0-3 150 lb

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
<u>Cement</u>	<u>3</u>	<u>74</u>	<u>240 gal</u>	<u>Trimie</u>
<u>3/8 chips</u>	<u>74</u>	<u>79</u>	<u>200 lbs</u>	<u>poured</u>

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
<u>4 1/2</u>	<u>85</u>	<u>40</u>	<u>40</u>	<u>PVC</u>	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type white PVC

Method of installation Wrench line

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
<u>85</u>	<u>100</u>	<u>.020</u>	<u>15</u>	<u>4"</u>	<u>PVC</u>	<u>40</u>

Length of Headpipe _____ Length of Tailpipe 3"

Packer ☐ Y ☒ N Type _____

10. FILTER PACK: Silica sand

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
<u>20X40</u>	<u>79</u>	<u>80</u>	<u>450 lb</u>	<u>Poured</u>
<u>10X20</u>	<u>80</u>	<u>103</u>	<u>3150 lb</u>	<u>Poured</u>

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 80 Static water level (ft) 66

Water temp (°F) 54 Bottom hole temp. (°F) _____

Describe access port 4" expandable cap top of well

Well test: _____ Test method: _____

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
			☐	☐	☐	☐
			☐	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water
				Y N
<u>9 5/8</u>	<u>0</u>	<u>10</u>	<u>Gray Sand + Gravel</u>	
	<u>10</u>	<u>10</u>	<u>and brown silt</u>	
	<u>10</u>	<u>16</u>	<u>Gray Sand + Gravel</u>	
	<u>16</u>	<u>18</u>	<u>blk Sand and Gravel</u>	
	<u>18</u>	<u>20</u>	<u>black Sand Fine</u>	
	<u>20</u>	<u>46</u>	<u>blk Silty Sand</u>	
	<u>46</u>	<u>48</u>	<u>Wet blk sandy clay</u>	
	<u>48</u>	<u>55</u>	<u>Wet blk sandy silt</u>	
	<u>55</u>	<u>62</u>	<u>Hard blk/gray basalt</u>	
	<u>62</u>	<u>80</u>	<u>Brn Silt + blk basalt + Gravel</u>	
	<u>80</u>	<u>104</u>	<u>water, weathered black + brn basalt</u>	<u>X</u>
	<u>104</u>	<u>103</u>	<u>Abandoned bottom of hole with 50 lbs of bent pellets</u>	
			<u>loss 40' of 9 5/8 casing from 34 to 74' est.</u>	

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FEB 12 2013

Department of Water Resource
Eastern Region

Completed Depth (Measurable): 104'

Date Started 14 Dec 2013 Date Completed 12-16-13

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 Cascade Drilling, L.P. Co No 551

*Principal Driller Jeff Townsend Date 1-17-14

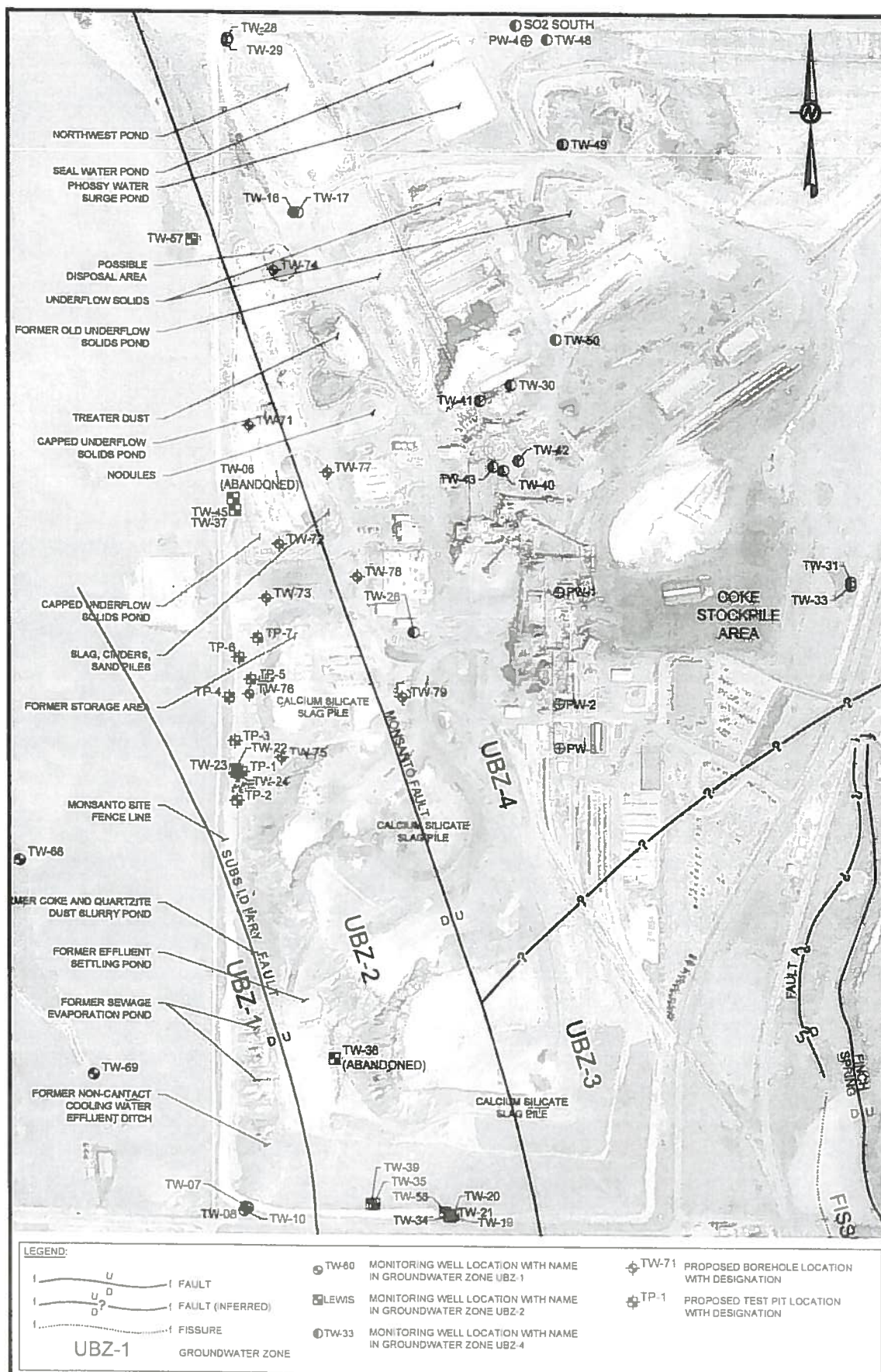
*Driller Joseph R Staloch Date 12-16-13

*Operator II _____ Date _____

Operator I _____ Date _____

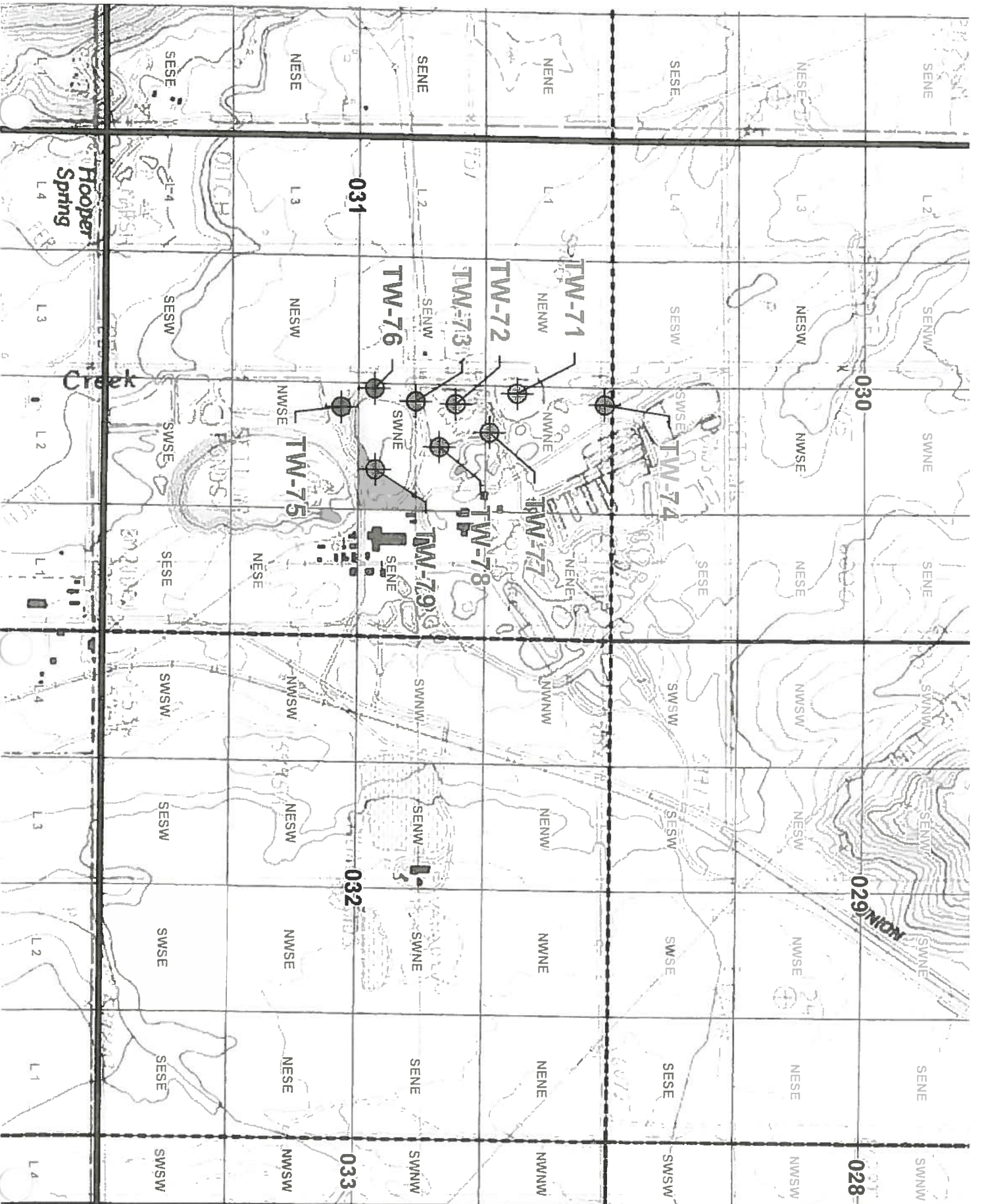
* Signature of Principal Driller and rig operator are required

[Signature]



SOURCE:
AERIAL PHOTO FROM MONSANTO (5/18/2011)

FIGURE 4-1
PROPOSED BOREHOLE AND TEST PIT LOCATIONS
Monsanto/Soda Springs 5 yr Review - Phase 2 Source Area Work Plan



REFER

- 1) Golden As
- 2.) USGS (Top
- 3.) Public Lan
- 4.) COORDIN



TW-71

Form 238-7
6/07IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT1. WELL TAG NO. D 0066017Drilling Permit No. 0066017

Water right or injection well # _____

2. OWNER: Monsanto- Soda Springs PlantName MonsantoAddress Hwy 34City Soda Springs State ID Zip 83276

3. WELL LOCATION:

Twp 8 North ☐ or South ☒ Rge 42 East ☒ or West ☐Sec 31 1/4 NW 1/4 NE 1/4Gov't Lot _____ County CaribouLat 42 41.374 (Deg and Decimal minutes)Long. 111 35.516 (Deg and Decimal minutes)Address of Well Site Hwy 34Hooper Avenue City Soda Springs

(Give street name of road + Distance to Head or Landmark)

Lot _____ Blk _____ Sub Name _____

4. USE:

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

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____7. SEALING PROCEDURES: Concrete 0-3 150 lbs

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
<u>Cement</u>	<u>3</u>	<u>89</u>	<u>640 gal</u>	
<u>Bent chips</u>	<u>89</u>	<u>94</u>	<u>350 lbs</u>	<u>poured</u>

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
<u>4 1/2</u>	<u>100</u>	<u>40</u>	<u>PVC</u>		☒	☐	☐
					☐	☐	☐
					☐	☐	☐
					☐	☐	☐

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☒ Y ☐ N Type White PVCMethod of installation Wrench line

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
<u>100</u>	<u>120</u>	<u>20</u>	<u>20</u>	<u>4</u>	<u>PVC</u>	<u>40</u>

Length of Headpipe _____ Length of Tailpipe 5'Packer ☐ Y ☒ N Type _____10. FILTER PACK: Silica sand

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
<u>20x40</u>	<u>94</u>	<u>99</u>	<u>300 lbs</u>	<u>poured</u>
<u>10x20</u>	<u>97</u>	<u>126</u>	<u>1500 lbs</u>	<u>poured</u>

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 94 Static water level (ft) 94Water temp. (°F) 54 Bottom hole temp. (°F) _____Describe access port Expandable cap top of well

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
			☐	☐	☐	☐
			☐	☐	☐	☐

Test method:

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water
				Y N
<u>9 5/8</u>	<u>0</u>	<u>29</u>	<u>gray sand + Gravel</u>	
	<u>29</u>	<u>38</u>	<u>Tan silt and Gray Gravel</u>	
	<u>38</u>	<u>48</u>	<u>black loose gravel</u>	
	<u>48</u>	<u>54</u>	<u>blk Gravel + Brn silt</u>	
	<u>54</u>	<u>60</u>	<u>Fractured blk/Gray basalt</u>	
	<u>60</u>	<u>94</u>	<u>Solid blk/Gray basalt</u>	
	<u>94</u>	<u>105</u>	<u>Weathered loose</u>	☒
		<u>105</u>	<u>Acid + Blk basalt</u>	
	<u>105</u>	<u>112</u>	<u>loose Red Basalt with silt</u>	
	<u>112</u>	<u>125</u>	<u>Blk + Red weathered</u>	
		<u>125</u>	<u>Basalt Red silt</u>	
	<u>125</u>	<u>128</u>	<u>Blk + Red weathered</u>	
<u>9 5/8</u>		<u>128</u>	<u>Basalt with Brn silt</u>	
	<u>128</u>	<u>126</u>	<u>Abandoned bottom of hole with 50 lbs of 3/8 Bent. Pellets</u>	

RECEIVED

FEB 12 2014

Department of Water Resources
Eastern RegionCompleted Depth (Measurable): 128Date Started 17 Dec 2013 Date Completed 12-20-13

14. DRILLER'S CERTIFICATION:

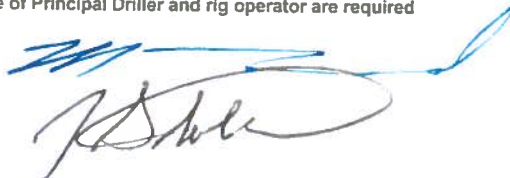
I/We certify that all minimum well construction standards were complied with at the time the rig was removed

Company Name Cascade Drilling, L.P. Co No 551*Principal Driller Jeff Townsend Date 1-17-14*Driller Joseph R Stalock Date 12-20-13

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion of abandonment of the well.

1. WELL OWNER Name <u>MANZANO CORPORATION</u> Address <u>P.O. Box 816 SODA SPRINGS IDAHO 83276</u> Owner's Permit No. <u>N/A</u>		7. WATER LEVELS Static water level <u>15'</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 _____ °F. Quality <u>POOR</u>																															
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Air ☐ Other _____ Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____																															
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☒ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other <u>MONITOR</u> (specify type) _____		9. LITHOLOGIC LOG <u>73706</u> <table border="1"><thead><tr><th>Hole Diam.</th><th>Depth From</th><th>To</th><th>Material</th><th>Water Yes No</th></tr></thead><tbody><tr><td>2"</td><td>0</td><td>3</td><td>CLAY</td><td>x</td></tr><tr><td>2"</td><td>3</td><td>17</td><td>BROKEN ROCK</td><td>x</td></tr><tr><td>8"</td><td>17</td><td>34</td><td>BROKEN ROCK</td><td>x</td></tr><tr><td>8"</td><td>34</td><td>60</td><td>BROKEN ROCK</td><td>x</td></tr><tr><td colspan="4">CEMENT GROUT FROM +1 TO 35' THEN 5' OF BENJAMITE PELLETS, THEN 20' OF GRAVEL PACK.</td><td></td></tr></tbody></table>		Hole Diam.	Depth From	To	Material	Water Yes No	2"	0	3	CLAY	x	2"	3	17	BROKEN ROCK	x	8"	17	34	BROKEN ROCK	x	8"	34	60	BROKEN ROCK	x	CEMENT GROUT FROM +1 TO 35' THEN 5' OF BENJAMITE PELLETS, THEN 20' OF GRAVEL PACK.				
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____		10. Work started <u>11-5-81</u> finished <u>1-18-82</u>																															
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☒ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>10" inches</td><td>1/4 inches</td><td>+1 feet</td><td>12 feet</td></tr><tr><td>8" inches</td><td>inches</td><td>+1 feet</td><td>34 feet</td></tr><tr><td>4" PVC inches</td><td>inches</td><td>0 feet</td><td>60 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 Size of perforation <u>3/16</u> inches by <u>HOLES</u> inches Number <u>180</u> perforations <u>48</u> feet <u>60</u> feet perforations _____ feet _____ feet perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☒ Yes ☐ No ☒ Size of gravel <u>3/8"</u> Placed from <u>40'</u> feet to <u>60'</u> feet Surface seal depth <u>1' to 35'</u> Material used in seal: ☒ Cement grout ☐ Puddling clay ☐ Well cuttings <u>BENJAMITE PELLETS 5' FROM 35' - 40'</u> 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>TOP OF WELL</u>		Thickness	Diameter	From	To	10" inches	1/4 inches	+1 feet	12 feet	8" inches	inches	+1 feet	34 feet	4" PVC inches	inches	0 feet	60 feet	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. <u>VOLLMER WELL</u> Firm Name <u>DRILLING</u> Firm No. <u>583</u> Address <u>P.O. Box 2 ABERDEEN</u> Date <u>2-19-82</u> <u>IDAHO 83210-2</u> Signed by (Firm Official) <u>[Signature]</u> and <u>[Signature]</u> (Operator)															
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6. LOCATION OF WELL Sketch map location must agree with written location. Subdivision Name _____ Lot No. _____ Block No. _____ County <u>CARLETON</u> <u>SW 1/4 SE 1/4 Sec. 31, T. 8 N/S, R. 42 E/M.</u>																																	

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USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT