Appendix 3 Drilling Logs

DRILLING LOG OF WELL/BORING NO. MW-01 (TP04)

Project/Location: Poles, Inc. / Oldtown, Idaho
Boring Location: North of treatment building.
Date Started/Finished: August 27, 2001 - August 28, 2001
Drilling Contractor: Environmental West Exploration, Inc.
Drill Method: 8.25" OD Hollow Stem Auger with 10" Dia Wing Bit

Total Depth of Hole (feet BGS): 85.5
Ground Elevation (feet above MSL): N/A
Inner Casing Elevation (TOC): N/A
Groundwater Depth (feet BGS):
First Encountered: ▽ 75.7 Final: ▼ N/A
Geologist: P. D. James, Jr., PG

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval	Sample Recovery (feet)	O.E. Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (300 Lbs)	COMMENTS
Ground Surface Elevation N/A	Heavy Gauged Steel Protective Flush-Mount Casing		ground surface (gs)						
	3.0' Diameter Concrete Pad		Rounded coarse to fine GRAVELLY SAND (SWG), uniformly to variably light gray to brown in color, well graded, dry.		1.3	N/A	0.0	15 15 12 15	Collected analytical sample TP04SS (0-0.5 feet bgs). Noted "petroleum/hydraulic oil" like odor.
2.0	8.25" Diameter Borehole		Subrounded fine to coarse GRAVELLY SAND (SWG), uniformly dark grayish brown in color, well graded, dry.		N/A	N/A	0.0	N/A	Noted 2-inch diameter metal pipe collar within soil cuttings.
	Schedule 40 PVC Riser (2-inch ID)				N/A	N/A	0.0	N/A	Noted strong "mineral spirit" like odor.
	Hydrated Sodium Bentonite Seal								
10.0			Subrounded fine to coarse GRAVELLY SAND (SWG), uniformly brown in color, well graded, moist.		1.6	N/A	0.0	10 12 15 15	Collected analytical sample TP04SB1 (10-12 feet bgs). Noted strong "mineral spirit" like odor with sheen.
12.0			Subrounded fine to coarse GRAVELLY SAND (SWG), uniformly strong brown in color, well graded, moist.		N/A	N/A	0.0	N/A	
15.0			Subrounded fine to medium SAND (SP) with trace fine gravel, uniformly strong brown in color, poorly graded, dry.		N/A	N/A	0.0	N/A	Noted "mineral spirit" like odor.

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Region 10

Site Name/Location: Poles, Inc. / Oldtown, Idaho
Well Number: MW-01 (TP04)

DRILLING LOG OF WELL/BORING NO. MW-01 (TP04)

Project/Location: Poles, Inc. / Oldtown, Idaho

Total Depth of Hole (feet BGS): 85.5

ELEVATION	DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval	Sample Recovery (feet)	LEL Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (300 Lbs)	COMMENTS
	20	8.25" Diameter Borehole		20.0 Subrounded fine to medium SAND (SP) with 10% silt, uniformly brown in color, poorly graded, dry.		N/A	N/A	0.0	N/A	Noted slight "mineral spirit" like odor.
	25	Schedule 40 PVC Riser (2-inch ID)		25.0 Subrounded fine to coarse SAND (SW) with 10% silt, uniformly brown in color, well graded, dry.		N/A	N/A	0.0	N/A	Noted slight "mineral spirit" like odor.
	30	Hydrated Sodium Bentonite Seal		30.0 Subrounded fine to medium SILTY SAND (SM), uniformly brown in color, poorly graded, dry.		N/A	N/A	0.0	N/A	Noted slight "mineral spirit" like odor.
	35					N/A	N/A	0.0	N/A	Noted slight "mineral spirit" like odor.
	40			40.0 Subrounded fine to coarse SAND (SW) with trace fine gravel and silt, uniformly light brown in color, poorly graded, dry.		N/A	N/A	0.0	N/A	Noted slight "mineral spirit" like odor.

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Site Name/Location: Poles, Inc. / Oldtown, Idaho
Well Number: MW-01 (TP04)

DRILLING LOG OF WELL/BORING NO. MW-01 (TP04)

Project/Location: Poles, Inc. / Oldtown, Idaho

Total Depth of Hole (feet BGS): 85.5

ELEVATION	DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval	Sample Recovery (feet)	LEL Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (300 Lbs)	COMMENTS
		8.25" Diameter Borehole; Schedule 40 PVC Riser (2-inch ID); Hydrated Sodium Bentonite Seal		45.0 Subrounded fine to coarse GRAVELLY SAND (SWG) with trace silt, uniformly light brown in color, well to moderately graded, dry.		N/A	N/A	0.0	N/A	
						N/A	N/A	0.0	N/A	
				55.0 Rounded fine to coarse GRAVELLY SAND (SWG), uniformly light reddish brown in color, well to moderately graded, dry.		2.0	N/A	0.0	14 25 25 36	
				56.3 57.0 Subrounded fine to medium SAND (SP), uniformly light brown in color, poorly graded, dry.		N/A	N/A	0.0	N/A	Noted "mineral spirit" like odor.
				Rounded fine to coarse GRAVELLY SAND (SWG), uniformly light brown in color, well graded, dry.						
				60.0 Rounded fine to coarse GRAVELLY SAND (SWG), uniformly light reddish brown in color, well graded, dry.		2.0	N/A	0.0	20 30 35 45	
				62.0 Subrounded fine to coarse GRAVELLY SAND (SWG) with trace silt, uniformly light reddish brown in color, well graded, dry to moist.		2.0	N/A	0.0	20 30 45 40	
						2.0	N/A	0.0	24 31 34 37	
				66.0 Rounded fine to coarse GRAVELLY SAND (SWG), variably brown to reddish brown in color, well graded,		N/A	N/A	0.0	N/A	
						2.0	N/A	0.0	75	

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Region 10

Site Name/Location: Poles, Inc. / Oldtown, Idaho
Well Number: MW-01 (TP04)

DRILLING LOG OF WELL/BORING NO. MW-01 (TP04)

Project/Location: Poles, Inc. / Oldtown, Idaho

Total Depth of Hole (feet BGS): 85.5

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval	Sample Recovery (feet)	LEL Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (300 Lbs)	COMMENTS
	10/20-Mesh Silica Sand Filter Pack		dry.					45 50/5 N/A	
					2.0	N/A	0.0	18 35 45 40	
71.0			Subrounded fine to coarse GRAVELLY SAND (SWG), uniformly light reddish brown in color, well graded, moist.		2.0	N/A	0.0	18 30 50/5 N/A	
	Schedule 40 PVC 0.010-inch Slotted Screen (2-inch ID)				2.0	N/A	0.0	20 38 48 40	
76.0			Subrounded fine to coarse SILTY SAND (SM), uniformly light olive brown in color, poorly graded, moist.		2.0	N/A	0.0	14 30 35 45	
77.0			Subrounded fine to medium SAND (SP) with 10% silt, uniformly olive brown in color, poorly graded, moist to wet.		1.8	N/A	0.0	17 30 45 30	Collected analytical sample TP04SB2 (77.7-78.7 feet bgs). Encountered groundwater at 78.7 feet bgs.
79.0			Subrounded fine to medium SAND (SP) with trace gravel and silt, uniformly olive brown in color, poorly graded, wet.		N/A	N/A	0.0	N/A	Collected analytical groundwater sample TP04GW.
85.5	PVC Bottom Cap		End of boring at 85.5 feet bgs.						

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Site Name/Location: Poles, Inc. / Oldtown, Idaho
Well Number: MW-01 (TP04)

DRILLING LOG OF WELL/BORING NO. MW-02 (TP05)

Project/Location: Poles, Inc. / Oldtown, Idaho
Boring Location: South of treatment building, adjacent to wood treatment vessel.
Date Started/Finished: August 28, 2001 - August 29, 2001
Drilling Contractor: Environmental West Exploration, Inc.
Drill Method: 8.25" OD Hollow Stem Auger with 10" Dia Wing Bit

Total Depth of Hole (feet BGS): 86.5
Ground Elevation (feet above MSL): N/A
Inner Casing Elevation (TOC): N/A
Groundwater Depth (feet BGS):
First Encountered: ▽ 78.6 Final: ▼ N/A
Geologist: P. D. James, Jr., PG

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval	Sample Recovery (feet)	H.E. Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (3/6 Lbs)	COMMENTS
Ground Surface Elevation N/A	Heavy Gauged Steel Protective Flush-Mount Casing		ground surface (gs)						
	3.0' Diameter Concrete Pad		Rounded coarse to fine GRAVELLY SAND (SWG), uniformly brown in color, well graded, dry. Noted wood fragments throughout.		1.0	N/A	0.1	10 20 50/5 N/A	Collected analytical sample TP05SS (0-0.5 feet bgs). Noted some wood fragments.
2.0	8.25" Diameter Borehole		Rounded fine to coarse SANDY GRAVEL (GWS), uniformly brown in color, well graded, dry.		N/A	N/A	0.0	N/A	
5.0	Schedule 40 PVC Riser (2-inch ID)		Subrounded fine to coarse GRAVELLY SAND (SWG) with trace silt, uniformly brown in color, well to moderately graded, moist.		N/A	N/A	0.0	N/A	
10.0	Hydrated Sodium Bentonite Seal		Subrounded fine to coarse GRAVELLY SAND (SWG) with trace silt, uniformly brown in color, well graded, moist.		N/A	N/A	0.1	N/A	
15.0			Subrounded fine to coarse GRAVELLY SAND (SWG) with trace silt, uniformly dark brownish yellow in color, well graded, moist.		N/A	N/A	2.1	N/A	Noted "diesel fuel" like odor.

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Region 10

Site Name/Location: Poles, Inc. / Oldtown, Idaho
Well Number: MW-02 (TP05)

DRILLING LOG OF WELL/BORING NO. MW-02 (TP05)

Project/Location: Poles, Inc. / Oldtown, Idaho

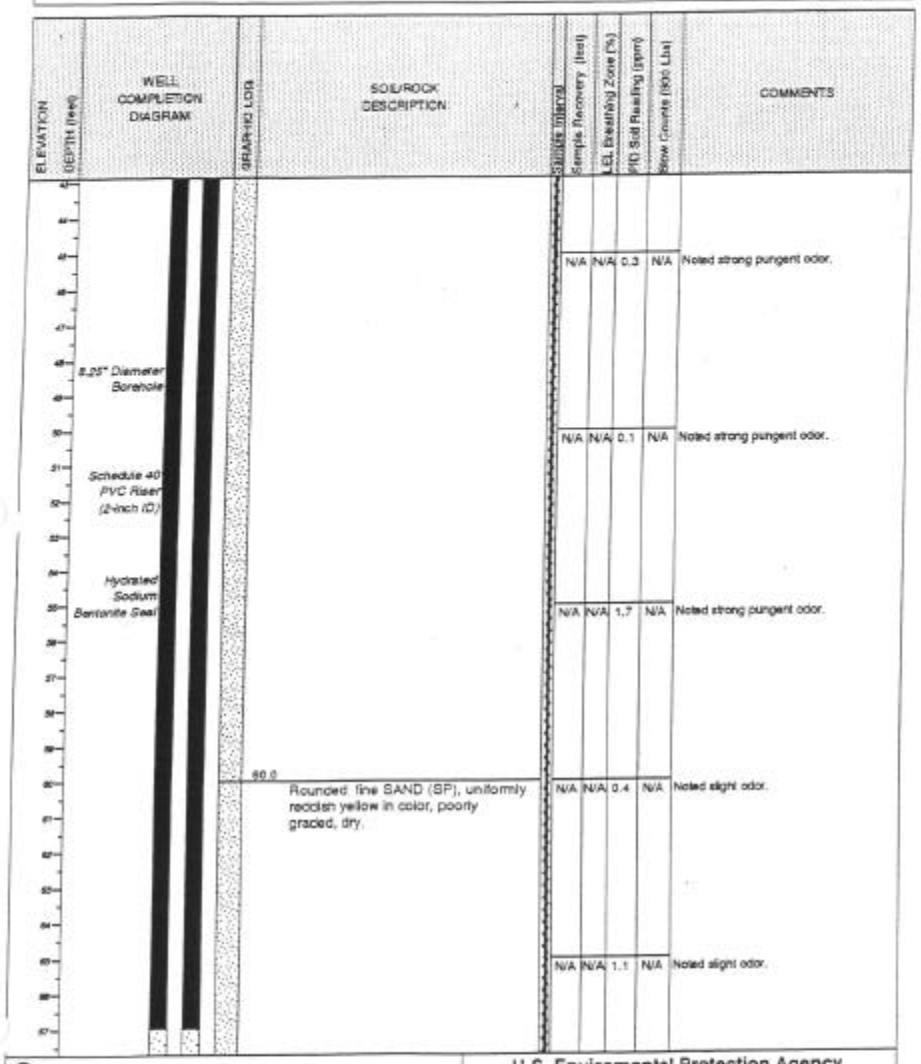
Total Depth of Hole (feet BGS): 85.5

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval / Sample Recovery (feet)	L.E. Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (330 Lbs)	COMMENTS
20.0	8.25" Diameter Borehole; Schedule-40 PVC Riser (2-inch ID); Hydrated Sodium Bentonite Seal		Subrounded fine to coarse SAND (SW) with trace fine gravel, uniformly light brown in color, well graded, moist.	2.0	N/A	0.4	9, 18, 27, 24	Noted slight "diesel fuel" like odor.
22.0			Subrounded fine to medium SAND (SP) with 10% fine gravel and trace silt, uniformly light brown in color, moderately graded, moist.	N/A	N/A	3.8	N/A	Noted pungent odor.
				N/A	N/A	1.7	N/A	Noted pungent odor.
30.0			Subrounded fine to medium SAND (SP) with trace silt, uniformly brown in color, poorly graded, moist.	N/A	N/A	1.7	N/A	Noted strong pungent odor.
35.0			Subrounded fine to medium SILTY SAND (SM), uniformly light olive brown in color, poorly graded, moist.	2.0	N/A	0.3	11, 20, 27, 30	Collected analytical sample TP05SB1 (35-37 feet bgs). Noted odor, staining and sheening with slight weathering appearance (36.5-37.0 feet bgs).
				N/A	N/A	0.3	N/A	
40.0			Subrounded fine to coarse SAND (SP) with 10% fine gravel and trace silt, uniformly light brown in color, poorly graded, moist.	N/A	N/A	0.2	N/A	Noted strong pungent odor.

DRILLING LOG OF WELL/BORING NO. MW-02 (TP05)

Project/Location: Poles, Inc. / Oldtown, Idaho

Total Depth of Hole (feet BGS): 85.5



ELEVATION	DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Recovery (feet)	LEL Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (BG Lbs)	COMMENTS
	45								
	46								
	47								
	48				N/A	N/A	0.3	N/A	Noted strong pungent odor.
	49								
	50				N/A	N/A	0.1	N/A	Noted strong pungent odor.
	51								
	52								
	53								
	54								
	55				N/A	N/A	1.7	N/A	Noted strong pungent odor.
	56								
	57								
	58								
	59								
	60			60.0 Rounded fine SAND (SP), uniformly reddish yellow in color, poorly graded, dry.	N/A	N/A	0.4	N/A	Noted slight odor.
	61								
	62								
	63								
	64								
	65				N/A	N/A	1.1	N/A	Noted slight odor.
	66								
	67								

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Region 10

Site Name/Location: Poles, Inc. / Oldtown, Idaho
Well Number: MW-02 (TP05)

DRILLING LOG OF WELL/BORING NO. MW-02 (TP05)

Project/Location: Poles, Inc. / Oldtown, Idaho

Total Depth of Hole (feet BGS): 85.5

ELEVATION	DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval	Sample Recovery (feet)	LEL Breathing Zone (%)	PID Soil Headspace (ppm)	Blow Counts (300 Lbs)	COMMENTS
		10/20-Mesh Silica Sand Filter Pack								
	70.0			Rounded fine to coarse GRAVELLY SAND (SWG), variably brown (fine grained) to white (coarse grained) in color, well graded, dry. During augering, it appeared a cobble layer was encountered from 71 to 74 feet bgs.		N/A	N/A	0.5	N/A	Noted strong pungent odor.
		Schedule 40 PVC 0.010-inch Slotted Screen (2-inch ID)				N/A	N/A	0.5	N/A	Noted strong pungent odor.
	76.0			Subrounded fine to coarse SILTY SAND (SM), uniformly weak reddish brown in color, poorly graded, moist to wet.		2.0	N/A	0.0	15 30 35 45	Collected analytical sample TP05S02 (78-79 feet bgs). Encountered groundwater at 78.6 feet bgs.
	80.0			Subrounded fine to coarse SILTY SAND (SM), uniformly weak reddish brown in color, poorly graded, wet.		N/A	N/A	0.0	N/A	Collected analytical groundwater sample TP05GW.
		PVC Bottom Cap								
	85.5			End of boring at 85.5 feet bgs.						

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Site Name/Location: Poles, Inc. / Oldtown, Idaho
Well Number: MW-02 (TP05)

DRILLING LOG OF WELL/BORING NO. MW-03 (TP06)

Project/Location:	Poles, Inc. / Cldtown, Idaho	Total Depth of Hole (feet BGS):	85.5
Boring Location:	East of treatment building.	Ground Elevation (feet above MSL):	N/A
		Inner Casing Elevation (TOC):	N/A
Date Started/Finished:	August 28, 2001 - August 29, 2001	Groundwater Depth (feet BGS):	
Drilling Contractor:	Environmental West Exploration, Inc.	First Encountered: ▽ 78.0	Final: ▼ N/A
Drill Method:	8.25" OD Hollow Stem Auger with 10" Dia Wing Bit	Geologist:	P. D. James, Jr., PG

ELEVATION	DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval	Sample Recovery (feet)	LEL Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (300 Lbs)	COMMENTS
Ground Surface Elevation N/A		Heavy Gauged Steel Protective Flush-Mount Casing		ground surface (gs)						
	3.0' Diameter Concrete Pad			Rounded fine to coarse GRAVELLY SAND (SWG), variably pale yellow to black in color, well graded, dry. Noted wood fragments throughout. (1.0)		1.6	N/A	0.1	17 20 17 20	Collected analytical sample TP06SS (0-0.5 feet bgs). Noted wood fragments at 1.0 feet bgs.
	8.25" Diameter Borehole			Subrounded fine SANDY SILT, uniformly pale yellow in color, poorly sorted, dry. (2.0)		N/A	N/A	0.0	N/A	
				Rounded fine to coarse SILTY SAND (SM) with 20% fine subrounded gravel, uniformly light olive brown in color, poorly graded, dry. (5.0)		N/A	N/A	0.0	N/A	
	Schedule 40 PVC Riser (2-inch ID)			Rounded fine to coarse SILTY SAND (SM), uniformly light yellowish brown in color, poorly graded, moist.						
	Hydrated Sodium Bentonite Seal			(10.0) Subrounded fine to coarse GRAVELLY SAND (SWG), uniformly light yellowish brown in color, well graded, moist.		N/A	N/A	0.0	N/A	
						N/A	N/A	0.0	N/A	

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Region 10

Site Name/Location: Poles, Inc. / Cldtown, Idaho
Well Number: MW-03 (TP06)

DRILLING LOG OF WELL/BORING NO. MW-03 (TP06)

Project/Location: Poles, Inc. / Oldtown, Idaho

Total Depth of Hole (feet BGS): 85.5

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval	Sample Recovery (feet)	LEL Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (300 Lbs)	COMMENTS
20									
20.0			Subrounded fine to coarse GRAVELLY SAND (SWG) with 5% silt, uniformly olive brown in color, well graded, moist.		N/A	N/A	0.1	N/A	
21									
22									
23	8.25" Diameter Borehole								
24									
25.0			Subrounded fine to coarse SAND (SW) with 10% fine gravel and silt, uniformly olive brown in color, well graded, moist.		N/A	N/A	0.0	N/A	
26	Schedule 40 PVC Riser (2-inch ID)								
27									
28									
29	Hydrated Sodium Bentonite Seal								
30					N/A	N/A	0.0	N/A	
31									
32									
33									
34									
35.0			Subrounded fine to medium SAND (SP) with 10% silt, uniformly light olive brown in color, moderately graded, moist.		N/A	N/A	0.1	N/A	
36									
37									
38									
39									
40.0			Subrounded fine to medium SILTY SAND (SM), uniformly olive yellow in color, poorly graded, dry.		N/A	N/A	0.2	N/A	
41									
42									

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Seattle, Washington
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U.S. Enviromental Protection Agency
Region 10

Site Name/Location: Poles, Inc. / Oldtown, Idaho
Well Number: MW-03 (TP06)

DRILLING LOG OF WELL/BORING NO. MW-03 (TP06)

Project/Location: Poles, Inc. / Oldtown, Idaho

Total Depth of Hole (feet BGS): 85.5

ELEVATION	DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval	Sample Recovery (feet)	LEL Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (300 Lbs)	COMMENTS
				45.0 Subrounded fine to coarse GRAVELLY SAND (SWG) with 10% silt, uniformly olive brown in color, well graded, dry.		2.0	N/A	0.0	5 30 25 30	Collected analytical sample TP06SB1 (45-47 feet bgs).
		8.25" Diameter Borehole				N/A	N/A	0.0	N/A	
		Schedule 40 PVC Riser (2-inch ID)		50.0 Subrounded fine to medium GRAVELLY SAND (SWG), uniformly olive brown in color, well graded, coarsening downwards, dry.		N/A	N/A	0.0	N/A	
		Hydrated Sodium Bentonite Seal				N/A	N/A	0.0	N/A	
						N/A	N/A	0.0	N/A	
				65.0 Rounded fine SILTY SAND (SM), uniformly light olive brown in color, poorly graded, dry.		N/A	N/A	0.0	N/A	

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Seattle, Washington
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U.S. Enviromental Protection Agency
Region 10

Site Name/Location: Poles, Inc. / Oldtown, Idaho
Well Number: MW-03 (TP06)

DRILLING LOG OF WELL/BORING NO. MW-03 (TP06)

Project/Location: Poles, Inc. / Oldtown, Idaho

Total Depth of Hole (feet BGS): 85.5

ELEVATION	DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	Sample Interval	Sample Recovery (feet)	LEL Breathing Zone (%)	PID Soil Reading (ppm)	Blow Counts (8/0 Lbs)	COMMENTS
		10/20-Mesh Silica Sand Filter Pack								
	70.0			Subrounded fine to coarse GRAVELLY SAND (SWG) with 5% silt, uniformly olive brown in color, well graded, dry.		N/A	N/A	0.0	N/A	
		Schedule 40 PVC 0.010-inch Slotted Screen (2-inch ID)								
	75.0			Subrounded fine to medium SAND (SP), uniformly olive brown in color, moderately graded, moist.		2.0	N/A	0.0	14 20 25 50	Collected analytical sample TP06SB2 (76-78 feet bgs).
	78.0			Subrounded fine to medium SAND (SP) with 5% silt, uniformly olive brown in color, poorly graded, wet.		2.0	N/A	0.0	12 28 28 25	Encountered groundwater at 78.0 feet bgs.
						N/A	N/A	0.0	N/A	Collected analytical groundwater sample TP06GW.
		PVC Bottom Cap								
	85.5			End of boring at 85.5 feet bgs.						

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Seattle, Washington
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U.S. Enviromental Protection Agency
Region 10

Site Name/Location: Poles, Inc. / Oldtown, Idaho
Well Number: MW-03 (TP06)

Soil Test Boring Log

Quantum Engineering and Geologic Consulting

Job Name: Fisher, Inc.
Job Number: 258
Engr./Geologist: James G. De Smet, PE, PG
Driller: Environmental Mark Explorer
Operator: Dan Clausen
Equipment: Mobile B-80 Tube Equipped

Boring Number: MW8
Location: 407 ft. of Dry Tank at Check Shack
Date: 9/24/03
TOC Elev: 100.19
SWL: approx. 75 ft.

2" Blank PVC Casing w/ Bottom Cap
2" PVC 10 slot Well Screen
20/30 Silica Sand
3/8" Bentonite Chips
Concrete Well Monument
Split Spoon Interval

Depth (ft.)	Depth Interval (ft.)	Sample Interval	PID/Odor (ppm)	Description	Well Construction	Comments
0	0-10.0			Sand and pea gravel, no odor		
10	10-20			Silty sand and pea gravel, no odor or staining		
20	20-30			Silty sand and pea gravel, no odor or staining		
30	30-40			Silty sand and pea gravel, no odor or staining		
40	40-50			Silty sand and pea gravel, no odor or staining		
50	50-60			Sandy pea gravel, no odor or staining		
				Sand and pea gravel, no odor or staining		
60	60-70			Mud sand, no odor or staining 8" recovery		
				Sandy pea gravel, no odor or staing 12" recover		
70	70-80			Sandy pea gravel, no odor or staing 4" recover		
80	80-90			Sand with fine gravel, no odor or staining, water @ 75 feet, no sheen, 4" recovery		
90	90-100			Clean coarse sand, saturated, no odor or staining Major heaving, not possible to remove rod and keep hole open. Further sampling not possible.		
100	100-110			Sand and gravel		
110	110-120					
120	120-130			Bottom of hole		
130						
140						

Soil Test Boring Log

Quantum Engineering and Geologic Consulting

Job Name: Fines, Inc.
Job Number: 238
Engr/Geologist: James G. De Smet, PE, PG
Driller: Environmental Water Explorer
Operator: Dan Clausen
Equipment: Mobile B-90 Tubes Equipped

Boring Number: MW8
Location: 180 feet SW of SW Cor. of Dip Tank
Date: 9/25/05
TOC Elev: 100.25
SWL: approx. 75 ft.

2" Flush PVC Casing or Bottom Cap
2" PVC 10-slot Well Screen
20/30 Silica Sand
3/8" Bentonite Chips
Concrete Well Monument
Fault Screen Interval

Depth (ft.)	Depth Interval (ft.)	Sample Interval	PID/Odor (ppm)	Description	Well Construction	Comments
0	0-10.0			Sand and gravel, no sampling No odor or staining detected during drilling		
10	10-20					
20	20-30					
30	30-40					
40	40-50					
50	50-60					
60	60-70					
70	70-80					
80	80-90					
90						
100						
110						
120						

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Form 2267
11/97

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

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

1. WELL TAG NO. D 0017718

DRILLING PERMIT NO. _____

Other IDWR No. 572654

2. OWNER:
Name Reed Tingling MW #1
Address 101 N. Idaho ave.
City Old Town St. Id. Zip 83872

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

POSTED

N
W E
S

Twp. 56 North ☒ or South ☐
Rge. 06 East ☐ or West ☒
Sec. 25 1/4 NW 1/4 NW 1/4
Gov't Lot ____ County Bonner
Lat: ____ Long: ____
Address of Well Site ____ City Old Town, Id.
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 auger

7. SEALING PROCEDURES

GRAVEL/FILTER PACK Material	From	To	AMOUNT? Sacks or Pounds	METHOD
10/20 sand	67	85	13 bags	Poured
bentonite chips -3	67	35	bags	Poured

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
2"	+0	70	sch 40	PVC	☒	☐	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe ____ Length of Tailpipe ____

9. PERFORATIONS/SCREENS
Perforations Method N/A
Screens Screen Type PVC sch 40

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
70	85	010		2"	PVC	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
79 ft. below ground Artesian pressure 0 lb.
Depth flow encountered ____ ft. Describe access port or control devices: ____

56N 6W 25

11. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
N/A			

Water Temp. 57° Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encountered 79'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Hole Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
8"	0	85	med. brown, sandy gravel to gravelly sand	X	

RECEIVED

Completed Depth 85' (Measurable)
Date: Started 8-28-01 Completed 8-28-01

13. DRILLER'S CERTIFICATION
(We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Environmental West Firm No. 485
Firm Official [signature] Date 10/3/01
and
Driller or Operator Kelly Hill Date 10-2-01
(Signature of Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Kelly Hill

RECEIVED

OCT 04 2001

IDWR/North

Form 238-7
11/97

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

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

1. WELL TAG NO. D 0017719
DRILLING PERMIT NO. _____
Other IDWR No. 772695

2. OWNER:
Name Reid A. Tingling MW #2
Address 101 N. Idaho avenue
City Old Town State Id Zip 83872

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

POSTED

Twp. 56 North X or South ☐
Rge. 06 East ☐ or West X
Sec. 25 1/4 NW 1/4 NW 1/4
Gov't Lot ____ County Bonner
Lat: Long:
Address of Well Site Polus inc. site
City Old Town, Id.

Lt. ____ Blk. ____ Sub. Name ____

4. USE:
☐ Domestic ☐ Municipal X Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

5. TYPE OF WORK check all that apply (Replacement etc.)
X New Well ☐ Modify ☐ Abandonment ☐ Other ____

6. DRILL METHOD
☐ Air Rotary ☐ Cable ☐ Mud Rotary X Other auger

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
10/20 sand	67	85	13 bgs	Poured
bentonite chips	0	67	38 bgs	Poured

Was drive shoe used? ☐Y ☐N Shoe Depth(s) ____
Was drive shoe seal tested? ☐Y ☐N How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
2"	0	70	Sch 40	PVC	X	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe ____ Length of Tailpipe ____

9. PERFORATIONS/SCREENS
Perforations Method N/A
Screens Screen Type PVC Sch 40

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
70	85	010		2"	PVC	X	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
82 ft. below ground Artesian pressure 0 lb.
Depth flow encountered ____ ft. Describe access port or control devices: ____

11. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
N/A			

Water Temp. 57° Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encounter 82

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Water ?	Water #
8"	0	85	Med. brown, sandy gravel to gravelly sand	X	82

RECEIVED

Completed Depth 85' (Measurable)
Date: Started 8-28-01 Completed 8-28-01

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

Company Name Environmental West Lic. No. 485
Firm Official [signature] Date 10/2/01
and
Driller or Operator [signature] Date 10-2-01
(Sign once if Firm Official & Operator)

56 N 6 W 25

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Form 238-7
11/97

OCT 04 2001
IDWR/North

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. WELL TAG NO. D 0017720
DRILLING PERMIT NO. ____
Other IDWR No. 770676

2. OWNER:
Name Reed G. Tingling MW #3
Address 101 N. Idaho avenue
City Old Town State Id. Zip 83872

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

POSTED

Twp. 56 North X or South ☐
Rge. 06 East ☐ or West X
Sec. 25 1/4 NW 1/4 NW 1/4
Gov't. Lot ____ County Bonner
Lat: ____ Long: ____
Address of Well Site Poles inc. site
City Old Town, Id.
(Use or Test Name if Test - Distance to Road or Landmark)
Lt. ____ Blk. ____ Sub. Name ____

4. USE:
☐ Domestic ☐ Municipal X Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

5. TYPE OF WORK check all that apply (Replacement etc.)
X New Well ☐ Modify ☐ Abandonment ☐ Other ____

6. DRILL METHOD
☐ Air Rotary ☐ Cable ☐ Mud Rotary X Other auger

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
10/20 sand	67	85	13 bgs	Poured
bentonite chips	0	67	31 bgs	Poured

Was drive shoe used? ☐ Y ☐ (N) Shoe Depth(s) ____
Was drive shoe seal tested? ☐ Y ☐ (N) How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
2"	0	70	Sch 40	PVC	X	☐	☐	X
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe ____ Length of Tailpipe ____

9. PERFORATIONS/SCREENS
Perforations Method N/A
Screens Screen Type PVC Sch 40

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
70	85	010		2"	PVC	X	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
79 ft. below ground Artesian pressure 0 lb.
Depth flow encountered ____ ft. Describe access port or control devices: ____

11. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
	N/A		

Water Temp. 57° Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encounter 79'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
8"	0	85	Med. brown, sandy gravel to gravely sand	X	79'

RECEIVED
[illegible]

Completed Depth 85' (Measurable)
Date: Started 8-28-01 Completed 8-29-01

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 Environmental West Exp Firm No. 485
Firm Official [signature] Date 10/2/01
and
Driller or Operator [signature] Date 10-2-01
(Sign once if Firm Official's Operator)

56N VW 25 FORWARD WHITE COPY TO WATER RESOURCES

RECEIVED

Form 238-7
11/97 DEC 06 2002

IDWR/North

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. WELL TAG NO. D 0022564
DRILLING PERMIT NO 787924
Other IDWR No. 358974

POSTED

2. OWNER:
Name Poles, Inc. MW4
Address 101 N. Idaho Ave.
City Oldtown State ID Zip 83822

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

Twp 56 North ☒ or South ☐
Rge. 6 East ☐ or West ☒
Sec. 25 ___ 1/4 NW 1/4 NW 1/4
Gov't Lot ___ County Bonner
Lat: Long:
Address of Well Site Poles, Inc. 101 N. Idaho Ave.
northern property edge, near bank City Oldtown
(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 HSA

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Quickrete	0	1.5	400 lbs	gravity
3/8 Hole Plug	1.5	70	1450 lbs	tremie
Colo. Silica Sand 10-20	70	88	450 lbs	tremie

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
2"	+2	73	40	PVC	☒	☐	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe ___ Length of Tailpipe ___

9. PERFORATIONS/SCREENS
☐ Perforations Method ___
☒ Screens Screen Type Sched 40 2" 0.010

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
73	88	0.010		2"	PVC	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
83 ft. below ground Artesian pressure ___ lb.
Depth flow encountered ___ ft. Describe access port or control devices: ___

11. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. ___ Bottom hole temp. ___
Water Quality test or comments: ___
Depth first Water Encounter 83

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
8"	0	11	Silty coarse gravel and cobbles		☒
8"	11	20	Coarse silty sand with fine gravel		☒
8"	20	83	Silty sand with coarse gravel & cobbles		☒
8"	83	88	Silty sand interbedded with coarse gravel and cobbles	☒	
			6" above ground steel monument with locking aluminum cap		

Completed Depth 88 feet (Measurable)
Date: Started 10/23/02 Completed 11/7/02

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 Jasper Mountain Drilling Firm No 597
Firm Official R. Ellis [signature] Date Dec. 2, 2002
and
Driller or Operator ___ Date ___
(Sign once if Firm Official & Operator)

56N 6W 25 FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
11/97

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

RECEIVED
OCT 31 2003
IDWR/North

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

1. WELL TAG NO. D 0033216
DRILLING PERMIT NO. ____ - 807 - 117
Other IDWR No. 807117

2. OWNER
Name Foles, Inc. MWS
Address 101 N. Idaho Avenue
City Old Town State Id Zip 83822

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

POSTED

Twp. 56 North X or South ☐
Rge. 6 East ☐ or West X
Sec. 25 NW 1/4 NW 1/4 ____ 1/4
Gov't Lot ____ County Bonner
Lat ____ Long ____
Address of Well Site 101 N. Idaho Ave.
City Old Town, Id.

L1 ____ Blk. ____ Sub. Name ____

4. USE:
☐ Domestic ☐ Municipal X Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

5. TYPE OF WORK check all that apply (Replacement etc)
X New Well ☐ Modify ☐ Abandonment ☐ Other ____

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
bentonite chips	0	66	14 bags	Poured

Was drive shoe used? ☐Y X N Shoe Depth(s) ____
Was drive shoe seal tested? ☐ Y X N How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
2"	+3	68	Sch 40	PVC	X	☐	☐	X
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 3' Length of Tailpipe ____

9. PERFORATIONS/SCREENS
Perforations Method N/A
Screens Screen Type Sch. 40 PVC

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
68	83	010		2"	PVC	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
70 ft. below ground Artesian pressure 0 lb.
Depth flow encountered ____ ft. Describe access port or control devices: ____

11. WELL TEST:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Field gal/min	Drawdown	Pumping Level	Time
	N/A		

Water Temp. 57° Bottom hole temp. ____
Water Quality test or comments: N/A
Depth first Water Encountered 70'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
6"	0	83'	light brown, silty sand	X	
			saturated @ 70'		

RECEIVED
JAN 21 2004
IDWR/North

Completed Depth 83' (Measurable)
Date: Started 9-24-03 Completed 9-24-03

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 Environmental West Exp. Firm No. 485
Firm Official John Reynolds Date 10-29-03
and
Driller or Operator Dan Clausen Date 10-29-03
(Sign once if Firm Official & Operator) Dan Clausen

5 N 6 W 25

FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
11/97

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. WELL TAG NO. D 0033217
DRILLING PERMIT NO. ____ - ____ - 807 - 119
Other IDWR No. ____

2. OWNER:
Name Pobs, Inc. MWG
Address 101 N. Idaho Ave
City old town State Id Zip 83822

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

Twp. 56 North ☒ or South ☐
Rge. 6 East ☐ or West ☒
Sec. 25 NW 1/4 NW 1/4 1/4
Gov't Lot ____ County Bonner
Lat ____ Long ____
Address of Well Site 101 N. Idaho Ave
City old town Id.

Lt. ____ Blk. ____ Sub. Name ____

4. USE:
☐ Domestic ☐ Municipal ☒ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

5. TYPE OF WORK check all that apply (Replacement No.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other ____

6. DRILL METHOD
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
bentonite chips	0	66	13 bgs	Poured

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
2"	+3	68	Sch 40	PVC	☒	☐	☐	☒

Length of Headpipe 3' Length of Tailpipe ____

9. PERFORATIONS/SCREENS
Perforations Method N/A
Screens Screen Type Sch 40 PVC

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
68	83'	.010		2"	PVC	☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
70 ft. below ground Artesian pressure 0 lb.
Depth flow encountered ____ ft. Describe access port or control devices: ____

11. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
	N/A		

Water Temp. 57° Bottom hole temp. ____
Water Quality test or comments N/A
Depth first Water Encounter 70'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water T	Water H
6"	0	83	light brown silty sand	X	
			saturated @ 70'		

RECEIVED
JAN 2 2004
IDWR North

Completed Depth 83' (Measurable)
Date: Started 9-25-03 Completed 9-25-03

13. DRILLER'S CERTIFICATION
(We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Environmental West Firm No. 485
Firm Official [signature] Date 10-29-03
and Jon Burrows
Driller or Operator Dan Classen Date 10-29-03
(See note 4 Firm Official Drawing)

TOTAL P.02

56N 6W 25