

Appendix A

Monitor Well Lithologic and Construction Logs

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JOB NO. RVT01 DATE 10/04/83
 SURFACE ELEVATION 4946.10
 DEPTH OF SEAL 4.00
 WELL CASING TYPE 6-IN.SCHED. 40 PVC
 COMPLETION ALLUVIUM (PUMP TEST)

TOTAL DEPTH 17.0 feet
 WELL OWNER P. DARR
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24100.70 E 24050.70
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 6-in PVC cased well for pumping test.		ML	ALLUVIUM: SANDY SILT, nonplastic, brown.
5		Placed cement w/ bentonite grout to 1.5 feet Placed bentonite pellet seal from 1.5 to 4 feet.		SM	SILTY SAND, fine, occasional thin seams of sandy silt, nonplastic, brown.
10		Placed filter pack of concrete sand from 4 to 17 ft. Placed well screen, 015" slot, from 6 to 14 feet.		GP	SANDY GRAVEL, fine to coarse, brown.
15				SM	WIND RIVER FM: SANDSTONE, weakly cemented, grey.
20		Placed blank sump from 14 to 16 ft.			TD AT 17 FEET.
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
8.3		1-16-85
8.0		4-16-87

JOB NO. RVT01 DATE 09/28/83
 SURFACE ELEVATION 4946.20
 TOP OF FILTER PACK 6.00
 WELL CASING TYPE 2-IN.SCHED.40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 17.5 feet
 RIG TYPE CME-55
 BORING TYPE HSA
 LOCATION N 24105.40 E 24056.00
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well.		SM	ALLUVIUM: SILTY SAND, fine grained, nonplastic, dry, lt. brown to lt. grey.
5		Placed cement w/ bentonite grout to 3.5 feet Placed bentonite pellet seal from 3.5 to 5.5 feet.		GW	SAND AND GRAVEL, with sandy interbeds, fine to med. sand, fine to coarse gravel, occasional cobbles, rounded, nonplastic, brown.
10		Placed filter pack of concrete sand from 5.5 to 17.5 ft. Placed well screen, 010" slot, from 10.5 to 15.5 feet.		SP	WIND RIVER FM.: SANDSTONE, fine, grey.
15		Placed blank sump from 15.5 to 17.5 ft.			TD AT 17.5
20					
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
9.7		1-16-85
8.3		4-16-87

JOB NO. RV101 DATE 09/29/83
 SURFACE ELEVATION 4946.30
 TOP OF FILTER PACK 6.50
 WELL CASING TYPE 2-IN. SCHED. 40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 17.5 feet
 RIG TYPE CME-55
 BORING TYPE HSA
 LOCATION N 24101.60 E 24066.20
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well.		SM	ALLUVIUM: SILTY SAND, fine, nonplastic, slightly moist, (possible fill) lt. tan to brown.
5		Placed cement w/ bentonite grout to 4.5 feet Placed bentonite pellet seal from 4.5 to 6.5 feet.		SP	GRAVELLY SAND, medium grained sand with coarse gravel, occasional small cobble, lt. brown.
10		Placed filter pack of natural sand from 6.5 to 17.0 ft. Placed well screen, 010" slot, from 10.0 to 15.0 feet.		SP	WIND RIVER FM: SANDSTONE, fine to med. v. weakly cemented, grey.
15		Placed blank sump from 15.0 to 17.0 ft.			TD AT 17.5 FEET.
20					
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
9.9		1-16-85
8.4		4-16-87

JOB NO. RVT01 DATE 09/29/83 TOTAL DEPTH 17.5 feet
 SURFACE ELEVATION 4946.00 RIG TYPE CME-55
 TOP OF FILTER PACK 6.50 BORING TYPE HSA
 WELL CASING TYPE 2-IN. SCHED. 40 PVC LOCATION N 24102.30 E 24092.90
 COMPLETION ALLUVIUM DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well. Placed steel protective casing to 3 ft.		SM	ALLUVIUM: SILTY SAND, fine, nonplastic, slightly moist, (possible fill) lt. tan to brown.
5		Placed cement w/ bentonite grout to 4.5 feet Placed bentonite pellet seal from 4.5 to 6.5 feet.		SP	GRAVELLY SAND, medium grained sand with coarse gravel, occasional small cobble, lt. brown.
10		Placed filter pack of natural sand from 6.5 to 17.0 ft.			
15		Placed well screen, 010" slot, from 10.0 to 15.0 feet. Placed blank sump from 15.0 to 17.0 ft.		SP	WIND RIVER FM: SANDSTONE, fine to med. v. weakly cemented, grey. TD AT 17.5 FEET.
20					
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
8.7		1-16-85
8.3		4-16-87

JEG TAC TEAM

JOB NO. RVT01 DATE 09/29/83 TOTAL DEPTH 15.5 feet
 SURFACE ELEVATION 4945.30 RIG TYPE CME-55
 TOP OF FILTER PACK 6.50 BORING TYPE HSA
 WELL CASING TYPE 2-IN. SCHED. 40 PVC LOCATION N 24101.70 E 24251.20
 COMPLETION ALLUVIUM DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well. Placed steel protective casing to 3 ft.		SM	ALLUVIUM:— SILTY SAND, fine, nonplastic, slightly moist, (possible fill) lt. tan to brown.
5		Placed cement w/ bentonite grout to 4.5 feet Placed bentonite pellet seal from 4.5 to 6.5 feet.		SP	GRAVELLY SAND, medium grained sand with coarse gravel, occasional small cobble, lt. brown.
10		Placed filter pack of natural sand from 6.5 to 15.5 ft. Placed well screen, 010" slot, from 8.5 to 13.5 feet.		SP	WIND RIVER FM.: SANDSTONE, fine to med. v. weakly cemented, grey.
15		Placed blank sump from 13.5 to 15.5 ft.			TD AT 15.5 FEET.
20					
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
8.6		1-16-85
8.3		4-16-87

JOB NO. RVT01 DATE 09/29/83
 SURFACE ELEVATION 4946.30
 TOP OF FILTER PACK 6.00
 WELL CASING TYPE 2-IN. SCHED. 40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 17.5 feet
 RIG TYPE CME-55
 BORING TYPE HSA
 LOCATION N 24118.90 E 24050.60
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well. Placed steel protective casing to 3 ft.		SM	ALLUVIUM: SILTY SAND, fine, nonplastic, slightly moist, (possible fill) lt. tan to brown.
5		Placed cement w/ bentonite grout to 4.0 feet Placed bentonite pellet seal from 4.0 to 6.0 feet.		SP	GRAVELLY SAND, medium grained sand, med. to coarse gravel, occasional small cobble, lt. brown.
10		Placed filter pack of natural sand from 6.0 to 17.5 ft.			
15		Placed well screen, 010" slot, from 10.5 to 15.5 feet.		SP	WIND RIVER FM.: SANDSTONE, fine to med. v. weakly cemented, grey.
20		Placed blank sump from 15.5 to 17.5 ft.			TD AT 17.5 FEET.
25					
30					
35					
40					
45					
50					

GROUNDWATER

	DEPTH	HOUR	DATE
▽	8.8		1-16-85
▽	8.5		4-16-87

JEG TAC TEAM

JOB NO. RVT01 DATE 10/10/83
 SURFACE ELEVATION 4946.20
 TOP OF FILTER PACK 35.00
 WELL CASING TYPE 2-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR CONFINED)

TOTAL DEPTH 100.0 feet
 RIG TYPE MIDWAY 1500
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24079.70 E 24056.90
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well.		ML	ALLUVIUM:—
		Placed steel protective casing to 3 ft.		SM	SILTY SAND, occasional thin seams of sandy silt, fine grained. occ. fine gravel, lt. brown.
5				GW	SANDY GRAVEL, fine to coarse grained, greyish brown.
		Placed cement w/ bentonite grout to 31 feet		SM	WIND RIVER FM.: SANDSTONE, silty, weakly cemented, grey.
10					Note: Becoming thickly bedded, soft to mod. hard, with greyish green laminations, from 20 ft.
15				ML	SILTSTONE, sandy, thick bedded, very hard, grey.
20				CL	SHALE, moderately hard, grey.
25				ML	SILTSTONE, sandy, variable thin to thick bedded, mod. hard, grey.
30		Placed bentonite pellet seal from 31 to 35 feet.		CL	SHALE, mod. hard, grey.
35		Placed filter pack of concrete sand from 35 to 56.5 ft.		ML	SILTSTONE, sandy, some clay, thick bedded, mod. hard, grey.
40				SP	SANDSTONE, very fine grained, thick bedded, mod. hard, grey with occ. brown staining.
45					Note: Change to fine grain size from 45 ft..
50		Placed well screen, 010" slot, from 49.5 to 54.5 feet.			

GROUNDWATER

DEPTH	HOUR	DATE
9.6		1-16-85
8.8		4-16-87

JOB NO. RVT01 DATE 10/10/83
 SURFACE ELEVATION 4946.20
 TOP OF FILTER PACK 35.00
 WELL CASING TYPE 2-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR CONFINED)

TOTAL DEPTH 100.0 feet
 RIG TYPE MIDWAY 1500
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24079.70 E 24056.90
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
					WIND RIVER FM., Continued.
55		Placed blank sump from 54.5 to 56.5 ft.		ML	SILTSTONE, with fine sand, thick bedded, hard, grey.
60		Installed grout fill from 56.5 to 100 ft.			
				SP	SANDSTONE, very fine grained, thick bedded, mod. hard, grey.
65				CL	SHALE, mod. hard, grey.
				SP	SANDSTONE, very fine grained, thin bedded, grey.
70				ML	SILTSTONE, thick bedded, hard, grey.
75				CL	CLAYSTONE, thick bedded, soft to mod. hard, grey.
80				ML	SILTSTONE, thick bedded, hard, grey.
85					
90					
95					
100					TD AT 100 FEET.

GROUNDWATER		
DEPTH	HOUR	DATE
9.6		1-16-85
8.8		4-16-87

JEG TAC TEAM

JOB NO. RV701 DATE 10/12/83 TOTAL DEPTH 67.0 feet
 SURFACE ELEVATION 4946.00 RIG TYPE MIDWAY 1500
 TOP OF FILTER PACK 36.50 BORING TYPE ROTARY W/ REVERT
 WELL CASING TYPE 2-IN. SCHED. 40 PVC LOCATION N 24092.40 E 24131.40
 COMPLETION WIND RIVER FM. (UPR. CONFINED) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well.		SM	ALLUVIUM: SILTY SAND, fine, occasional gravel, greyish brown.
5		Placed steel protective casing to 3 ft.		GW	SANDY GRAVEL, fine to coarse, greyish brown.
10		Placed cement w/ bentonite grout to 33.5 feet			
15				SM	WIND RIVER FM.: SANDSTONE, silty, weakly cemented, grey.
20				SP	SANDSTONE, very fine, thickly bedded, mod. hard, grey. Note: Becoming hard to very hard at 19.5 ft. Note: Occasional soft zone interbedded in hard strata.
25					
30		Placed bentonite pellet seal from 33.5 to 36.5 feet.		ML	SILTSTONE, sandy, thickly bedded, very hard, grey.
35		Placed filter pack of concrete sand from 36.5 to 56.5 ft.		CL	SHALE, mod. hard, grey.
40				ML	SILTSTONE, sandy, thin bedded, hard, grey.
45				CL	SHALE, mod. hard, grey.
50		Placed well screen, 010" slot, from 49.5 to 54.5 feet.		ML	SILTSTONE, sandy, thin bedded, hard, grey.
				SP	SANDSTONE, very fine, thick bedded, mod. hard, grey.

GROUNDWATER

DEPTH	HOUR	DATE
9.5		1-16-85
9.0		4-16-87

JOB NO. RVT01 DATE 10/12/83
 SURFACE ELEVATION 4946.00
 TOP OF FILTER PACK 36.50
 WELL CASING TYPE 2-IN.SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 67.0 feet
 RIG TYPE MIDWAY 1500
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24092.40 E 24131.40
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55		Placed blank sump from 54.5 to 56.5 ft.		ML	WIND RIVER FM., Continued. SILTSTONE, very fine grained, mod. hard, grey.
60		Installed grout fill from 56.5 to 67 ft.		SP	SANDSTONE, very fine, thick bedded, mod. hard, grey.
65		Cored to 67 feet, backfill grout installed then reamed with 6-in.		CL	CLAYSTONE, mod. hard, grey.
70		rotary/Revert to 56.5 ft.			TD AT 67 FEET.
75					
80					
85					
90					
95					
100					

GROUNDWATER

DEPTH	HOUR	DATE
9.5		1-16-85
9.0		4-16-87

JEG TAC TEAM

JOB NO. RVT01 DATE 10/12/83
 SURFACE ELEVATION 4946.20
 TOP OF FILTER PACK 35.60
 WELL CASING TYPE 2-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 56.0 feet
 RIG TYPE MIDWAY 1500C
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24095.40 E 24018.40
 DATUM MSL, GROUND SURFACE

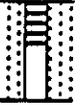
Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well. Placed steel protective casing to 3 ft.		ML	ALLUVIUM: -- SANDY SILT, nonplastic, lt. brown.
5		Placed cement w/ bentonite grout to 33.5 feet Lost 20 ft. section of 1-in. steel pipe in grouted zone.		GW	SANDY GRAVEL, fine to coarse, nonplastic, lt. brown.
10					
15				ML	WIND RIVER FM.: (SANDSTONE, SILTSTONE & SHALE); UNDIFFERENTIATED.
20					
25					
30		Placed bentonite pellet seal from 33.5 to 35.5 feet.			
35		Placed filter pack of concrete sand from 35.5 to 56.5 ft.			
40					
45					
50		Placed well screen, 010" slot, from 48.5 to 53.5 feet.			

GROUNDWATER

DEPTH	HOUR	DATE
9.6		1-16-85
4.0		4-16-87

JOB NO. RVT01 DATE 10/12/83
 SURFACE ELEVATION 4946.20
 TOP OF FILTER PACK 35.60
 WELL CASING TYPE 2-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 56.0 feet
 RIG TYPE MIDWAY 1500C
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24095.40 E 24018.40
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55		Placed blank sump from 53.5 to 55.5 ft.			
					TD AT 56 FEET.
60					
65					
70					
75					
80					
85					
90					
95					
100					

GROUNDWATER

DEPTH	HOUR	DATE
9.6		1-16-85
4.0		4-16-87

JEG TAC TEAM

JOB NO. RV101 DATE 10/13/83
 SURFACE ELEVATION 4945.80
 TOP OF FILTER PACK 40.00
 WELL CASING TYPE 2-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 58.0 feet
 RIG TYPE MIDWAY 1500
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24219.10 E 24068.20
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well. Placed steel protective casing to 3 ft.		ML	ALLUVIUM: SANDY SILT, nonplastic, lt. brown.
5		Placed cement w/ bentonite grout to 37.5 feet		GW	SANDY GRAVEL, fine to coarse, nonplastic, brown.
10					
15					
20				ML	WIND RIVER FM.: UNDIFFERENTIATED, SANDSTONE, SILTSTONE, SHALE.
25					
30		Placed bentonite pellet seal from 37.5 to 40.0 feet.			
35		Placed filter pack of concrete sand from 40.0 to 56.0 ft.			
40					
45					
50		Placed well screen, 010" slot, from 49.0 to 54.0 feet.			

GROUNDWATER

DEPTH	HOUR	DATE
9.7		1-16-85
9.3		4-16-87

JOB NO. RVT01 DATE 10/13/83 TOTAL DEPTH 58.0 feet
 SURFACE ELEVATION 4945.80 RIG TYPE MIDWAY 1500
 TOP OF FILTER PACK 40.00 BORING TYPE ROTARY W/ REVERT
 WELL CASING TYPE 2-IN. SCHED. 40 PVC LOCATION N 24219.10 E 24068.20
 COMPLETION WIND RIVER FM. (UPR. CONFINED) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55		Placed blank sump from 54.0 to 56.0 ft.			
60		Cave-in fill from 56 to 58 ft.			TD AT 58 FEET.
65					
70					
75					
80					
85					
90					
95					
100					

GROUNDWATER

DEPTH	HOUR	DATE
9.7		1-16-85
9.3		4-16-87

JEG TAC TEAM

JOB NO. RV701 DATE 10/17/83 TOTAL DEPTH 72.0 feet
 SURFACE ELEVATION 4946.20 RIG TYPE MIDWAY 1500
 TOP OF FILTER PACK 59.00 BORING TYPE ROTARY W/ REVERT
 WELL CASING TYPE 2-IN. SCHED. 40 PVC LOCATION N 24119.50 E 24060.80
 COMPLETION WIND RIVER FM. (LWR. CONFINED) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well.		ML	ALLUVIUM: SANDY SILT, nonplastic, lt. brown.
		Placed steel protective casing to 3 ft.		GW	SANDY GRAVEL, fine to coarse, nonplastic, brown.
5		Placed cement w/ bentonite grout to 57 feet			
10					
15				SM	WIND RIVER FM.: SANDSTONE, silty, weakly cemented, grey. thick bedded, soft to mod. hard, grey with occ. brown staining.
20					
25					
30				ML	SILTSTONE, sandy, thick bedded, hard, grey.
				CL	SHALE, mod. hard, grey.
				ML	SILTSTONE, sandy, variable bedding thickness, mod. hard, grey.
35					
40				SM	SANDSTONE, silty, very fine, thick bedded, soft to mod. hard, grey.
45					
				SP	SANDSTONE, fine grained, thick bedded, mod. hard, grey.
50					

GROUNDWATER

DEPTH	HOUR	DATE
9.9		1-16-85
9.4		4-16-87

JOB NO. RVT01 DATE 10/17/83
 SURFACE ELEVATION 4946.20
 TOP OF FILTER PACK 59.00
 WELL CASING TYPE 2-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (LWR. CONFINED)

TOTAL DEPTH 72.0 feet
 RIG TYPE MIDWAY 1500
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24119.50 E 24060.80
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55		Placed bentonite pellet seal from 57 to 59 feet.		ML	SILTSTONE, sandy, thick bedded, hard, grey.
60		Placed filter pack of concrete sand from 59 to 72 ft.		SM	SILTY SANDSTONE, very fine grained, thickly bedded, mod. soft, grey.
65		Placed well screen, 010" slot, from 61.3 to 66.3 feet.			
70		Placed blank sump from 66.3 to 68.3 ft.		CL ML	SHALE, mod. hard, grey. SILTSTONE, sandy, mod. hard, grey.
75					TD AT 72 FEET. CORED TO 72 FEET THEN REAMED WITH 6-IN FOR INSTALLATION OF WELL.
80					
85					
90					
95					
100					

GROUNDWATER

DEPTH	HOUR	DATE
9.9		1-16-85
9.4		4-16-87

JEG TAC TEAM

JOB NO. RVT01 DATE 10/19/83
 SURFACE ELEVATION 4946.10
 TOP OF FILTER PACK 5.00
 WELL CASING TYPE 6-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 56.0 feet
 RIG TYPE MIDWAY 1500
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24095.90 E 24056.90
 DATUM MSL, GROUND SURFACE

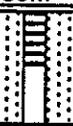
Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 6-in PVC cased well.		ML	ALLUVIUM: SANDY SILT, nonplastic, lt. brown.
		Placed steel protective casing to 3 ft.		SM	SILTY SAND, fine grained. lt. brown.
5		Placed cement w/ bentonite grout to 34 feet		GW	SANDY GRAVEL, fine to coarse grained, greyish brown.
10					
15				SM	WIND RIVER FM.: SANDSTONE, silty, weakly cemented, grey.
20					Note: Becoming thickly bedded, soft to mod. hard, with greyish green laminations, from 20 ft.
25					
30				ML	SILTSTONE, sandy, thick bedded, very hard, grey.
				CL	SHALE, moderately hard, grey.
35		Placed bentonite pellet seal from 34 to 36 feet.		ML	SILTSTONE, sandy, variable thin to thick bedded, mod. hard, grey.
				CL	SHALE, mod. hard, grey.
40		Placed filter pack of fine gravel from 36 to 56 ft.		ML	SILTSTONE, sandy, some clay, thick bedded, mod. hard, grey.
				SP	SANDSTONE, very fine grained, thick bedded, mod. hard, grey with occ. brown staining.
45		Placed well screen, 015" slot, from 39 to 54 feet.			Note: Change to fine grain size from 45 ft..
50					

GROUNDWATER

DEPTH	HOUR	DATE
10.4		1-16-85
9.9		4-16-87

JOB NO. RVTO1 DATE 10/19/83
 SURFACE ELEVATION 4946.10
 TOP OF FILTER PACK 5.00
 WELL CASING TYPE 6-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 56.0 feet
 RIG TYPE MIDWAY 1500
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24095.90 E 24056.90
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55		Placed blank sump from 54 to 56 ft.		ML	WIND RIVER FM., Continued. SILTSTONE, with fine sand, thick bedded, hard, grey. TD AT 56 FEET.
60					
65					
70					
75					
80					
85					
90					
95					
100					

GROUNDWATER		
DEPTH	HOUR	DATE
10.4		1-16-85
9.9		4-16-87

JOB NO. RVTD1 DATE 10/12/83
 SURFACE ELEVATION 4946.20
 DEPTH OF SEAL 5.00
 WELL CASING TYPE 6-IN. SCHED. 40 PVC
 COMPLETION ALLUVIUM/ WIND RIVER FM.

TOTAL DEPTH 32.0 feet
 WELL OWNER P. DARR
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24092.20 E 24050.80
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 6-in PVC cased well.		ML	ALLUVIUM: SANDY SILT, nonplastic, lt. brown.
		Placed grouted steel protective casing to 3 ft.		SM	SILTY SAND, fine, nonplastic, lt. brown.
5		Placed bentonite pellet seal from 3 to 5 feet.		GW	SANDY GRAVEL, fine to coarse, brown.
10		Placed filter pack of fine gravel from 5 to 32 ft.			
15		Placed well screen, 015" slot, from 8.5 to 28.5 feet.		SM	WIND RIVER FM.: SILTY SANDSTONE, very fine, weakly cemented, thick bedded, hard, grey.
20					
25					
30		Gravel fill from 28.5 to 32 ft.		ML	SILTSTONE, sandy hard. NOTE; Log of bedrock taken from nearby hole #106
35					TD AT 32 FEET.
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
9.4		1-16-85
9.1		4-16-87

JOB NO. RVT01 DATE 10/20/83
 SURFACE ELEVATION 4946.20
 DEPTH OF SEAL 5.00
 WELL CASING TYPE 2-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 34.0 feet
 WELL OWNER P. DARR
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 24089.40 E 24040.30
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2-in PVC cased well.		ML	ALLUVIUM: SANDY SILT, nonplastic, lt. brown.
5		Placed grouted steel protective casing to 3 ft.		SM	SILTY SAND, fine, nonplastic, lt. brown.
5		Placed bentonite pellet seal from 3 to 5 feet.		GW	SANDY GRAVEL, fine to coarse, brown.
10		Placed filter pack of concrete sand from 5 to 34 ft.			
15		Placed well screen, 010" slot, from 21 to 26 feet.		SM	WIND RIVER FM.: SILTY SANDSTONE, very fine, weakly cemented, thick bedded, mod. hard, grey.
20					
25					
30				ML	SILTSTONE, sandy hard.
30					NOTE: Log of bedrock taken from nearby hole #106
35					TD AT 34 FEET.
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
8.5		1-16-85
7.9		4-16-87

MONITOR WELL INSTALLATION DIAGRAM

Project 138(3)
 Location Kochi Pit
 Contractor _____
 Driller WYDOT
 Method Hollow Stem Auger

Monitor Well No. 210
 Borehole No. 1
 Date 04/25/95
 Observed by JMD
 Checked by _____
 Sheet 1 of 3

Adjusted Elevation
4940.71

Top of Casing
4940.10

Ground Surface

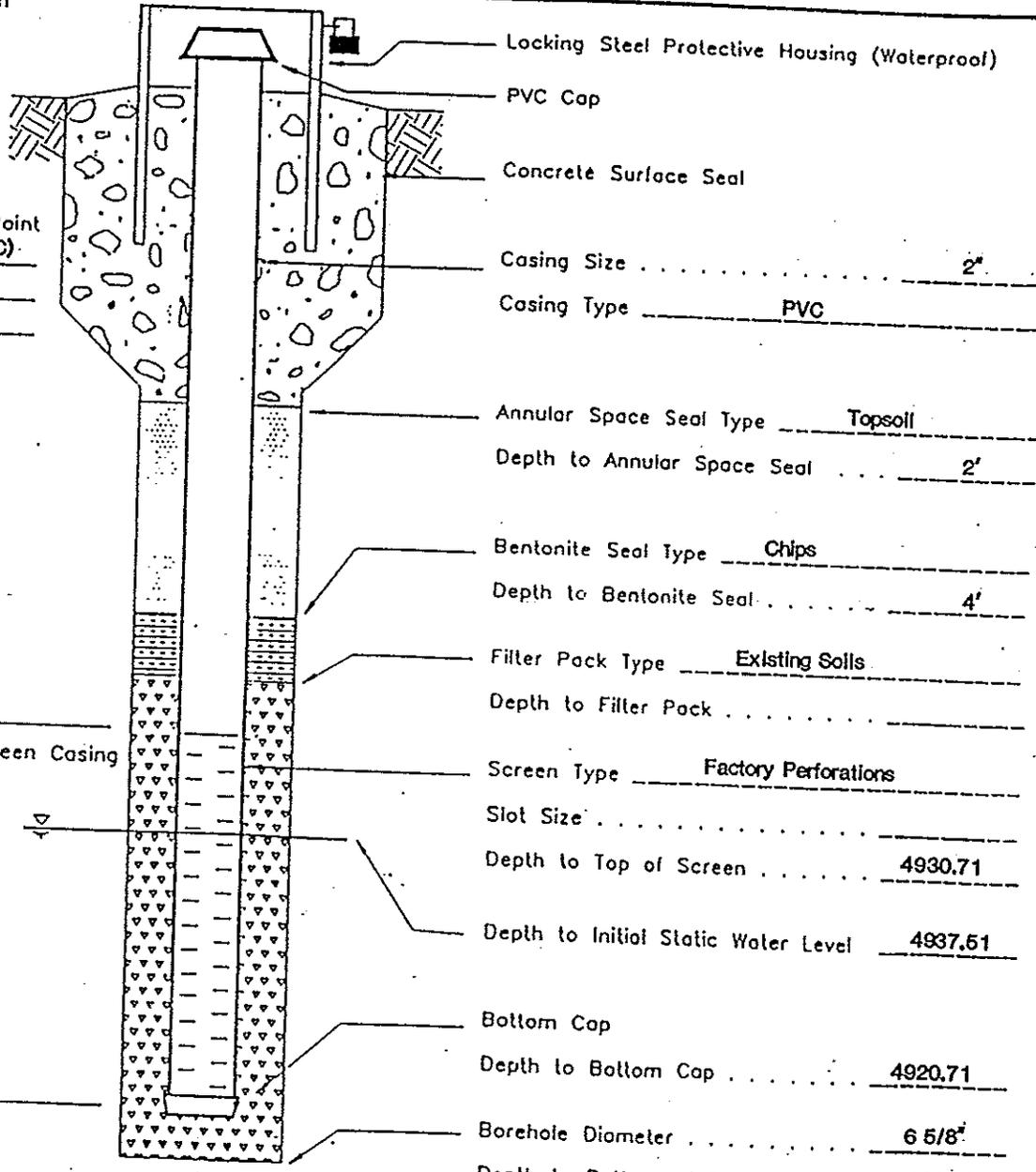
Note Measuring Point
Top of Casing (PVC)

4930.71

Top of Slotted Screen Casing

4920.71

Bottom of Casing



Casing Size 2"

Casing Type PVC

Annular Space Seal Type Topsoil

Depth to Annular Space Seal 2'

Bentonite Seal Type Chips

Depth to Bentonite Seal 4'

Filter Pack Type Existing Soils

Depth to Filter Pack _____

Screen Type Factory Perforations

Slot Size _____

Depth to Top of Screen 4930.71

Depth to Initial Static Water Level 4937.51

Bottom Cap

Depth to Bottom Cap 4920.71

Borehole Diameter 6 5/8"

Depth to Bottom of Borehole 4920.10



Surveyed by WYDOT Lander Office Date 6-20-95
 Remarks _____

MONITOR WELL INSTALLATION DIAGRAM

Project 138(3) Monitor Well No. 211
 Location Koch Pit Borehole No. 2
 Contractor _____ Date 04/25/95
 Driller WYDOT Observed by JMD
 Method Hollow Stem Auger Checked by _____
 Sheet 2 of 3

Adjusted Elevation
4941.44

Top of Casing
4940.14

Ground Surface

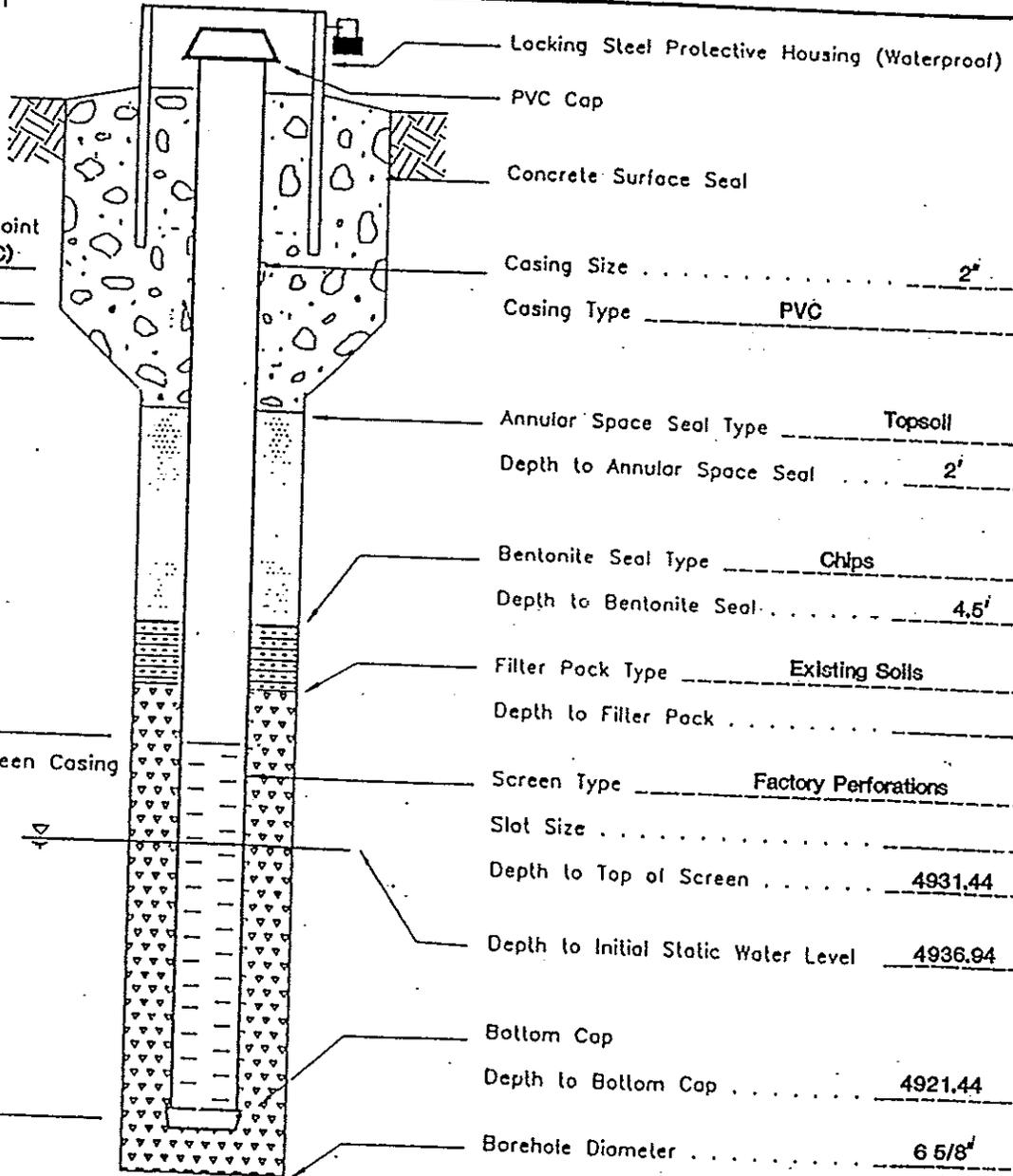
Note Measuring Point
Top of Casing (PVC)

4931.44

Top of Slotted Screen Casing

4921.44

Bottom of Casing



Locking Steel Protective Housing (Waterproof)

PVC Cap

Concrete Surface Seal

Casing Size 2"

Casing Type PVC

Annular Space Seal Type Topsoil

Depth to Annular Space Seal 2'

Bentonite Seal Type Chips

Depth to Bentonite Seal 4.5'

Filter Pack Type Existing Soils

Depth to Filter Pack _____

Screen Type Factory Perforations

Slot Size _____

Depth to Top of Screen 4931.44

Depth to Initial Static Water Level 4936.94

Bottom Cap

Depth to Bottom Cap 4921.44

Borehole Diameter 6 5/8"

Depth to Bottom of Borehole 4920.14



Surveyed by WYDOT Lander Office Date 6-20-95

Remarks _____

MONITOR WELL INSTALLATION DIAGRAM

Project 138(3) Monitor Well No. 212
 Location Koch Pit Borehole No. 3
 Contractor _____ Date 04/25/95
 Driller WYDOT Observed by JMD
 Method Hollow Stem Auger Checked by _____
 Sheet 3 of 3

Adjusted Elevation
4944.69

Top of Casing
4943.59

Ground Surface

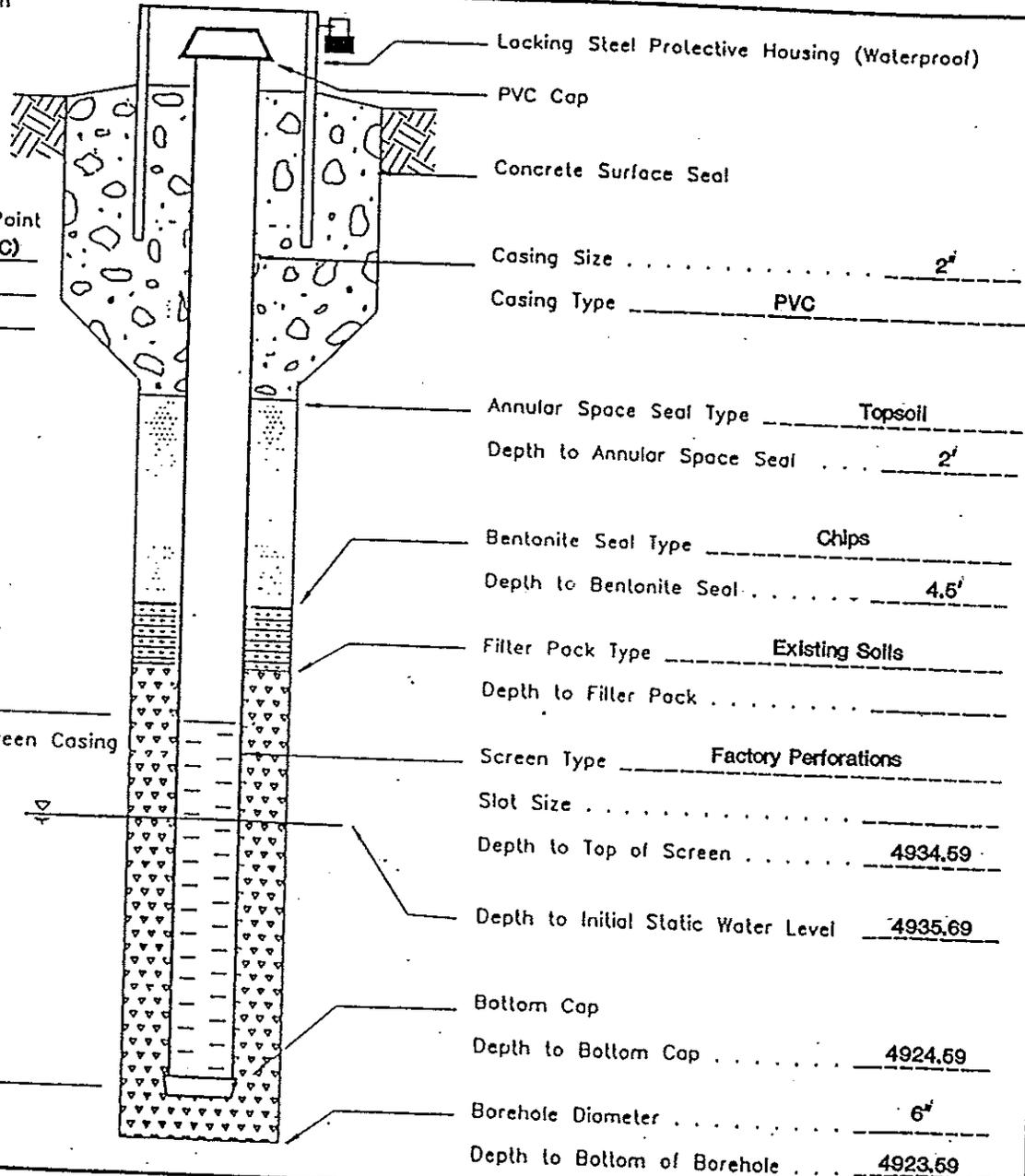
Note Measuring Point
Top of Casing (PVC)

4934.59

Top of Slotted Screen Casing

4924.59

Bottom of Casing



Locking Steel Protective Housing (Waterproof)

PVC Cap

Concrete Surface Seal

Casing Size 2"

Casing Type PVC

Annular Space Seal Type Topsoil

Depth to Annular Space Seal 2'

Bentonite Seal Type Chips

Depth to Bentonite Seal 4.5'

Filter Pack Type Existing Soils

Depth to Filter Pack

Screen Type Factory Perforations

Slot Size

Depth to Top of Screen 4934.59

Depth to Initial Static Water Level 4935.69

Bottom Cap

Depth to Bottom Cap 4924.59

Borehole Diameter 6"

Depth to Bottom of Borehole 4923.59



Surveyed by WYDOT Lander Office Date 6-20-95

Remarks _____

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JOB NO. RVT01 DATE 11/21/84 TOTAL DEPTH 228.0 feet
 SURFACE ELEVATION 4930.20 RIG TYPE FALING CF 1500
 TOP OF FILTER PACK 23.00 BORING TYPE NX CORE, ROTARY REAM
 WELL CASING TYPE 2.0-1.SCHED.40 PVC LOCATION N 21007.20 E 27725.90
 COMPLETION WIND RIVER FM. (LWR AQUITARD) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Hole cored to 201 ft.; reamed to 228 ft.; PVC well installed to 32 feet. Surface casing grouted in place to 20 ft.		CH	ALLUVIUM: SILTY CLAY, some fine to med. sand, med. to high plasticity, dark yellowish brown. GRAVELLY COBBLES, var. color.
5	GP				
10		Protective steel casing placed to 4 feet.			
15		Cement grout w/ bentonite placed to 20 feet.			
20		Bentonite pellet seal installed at 20 to 23 feet.		SP	WIND RIVER FM.: SANDSTONE, med. to fine, tr. silt, mod. hard, moist, dk. grey.
25		Filter pack of 20-40 sand installed from 23 to 31 feet.		SM	SILTY SANDSTONE, med., hard, grey.
		Well screen .010 slot, placed at 25.4 to 30.4 ft.		ML	SILTSTONE, thinly bedded, mod. soft, moist, dark grey.
		Blank sump placed at 30.4 to 32.4 ft.		CI	SHALE, very thinly bedded, mod. soft, moist, dk. grey.
30				ML	
35		Concrete sand fill placed from 31 to 47 ft.		SM	SILTSTONE, thinly bedded, mod. soft, grey.
40				SM	SANDSTONE, silty, fine to med. mod. hard, grey.
45		Cement/ bentonite grout fill placed from 47 to 228 ft.			
50				CL	SHALE, highly to mod. weathered, dark. grey.

GROUNDWATER

DEPTH	HOUR	DATE
4.3	12:00	11-15-84
4.3	15:00	11-20-84

JOB NO. RVT01 DATE 11/21/84
 SURFACE ELEVATION 4930.20
 TOP OF FILTER PACK 23.00
 WELL CASING TYPE 2.0-I. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (LWR AQUITARD)

TOTAL DEPTH 228.0 feet
 RIG TYPE FALLING CF 1500
 BORING TYPE NX CORE, ROTARY REAM
 LOCATION N 21007.20 E 27725.90
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55					WIND RIVER FM., Continued. Note: Becoming sandy with color change to lt. grey.
60					
65				SM	SANDSTONE, silty, fine, grey.
70				CL	SHALE, mod. hard, grey
75					
80					
85				SM	SANDSTONE, fine, weakly cemented, soft to mod. soft, dark grey
90					
95					Note: Color change from dk. grey to black.
100					

GROUNDWATER

DEPTH	HOUR	DATE
4.3	12:00	11-15-84
4.3	15:00	11-20-84

JEG TAC TEAM

JOB NO. RV701 DATE 11/21/84
 SURFACE ELEVATION 4930.20
 TOP OF FILTER PACK 23.00
 WELL CASING TYPE 2.0-I. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (LWR AQUITARD)

TOTAL DEPTH 228.0 feet
 RIG TYPE FAILING CF 1500
 BORING TYPE NX CORE, ROTARY REAM
 LOCATION N 21007.20 E 27725.90
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
105					<p>WIND RIVER FM; Continued. Note: Grain size changing from fine to medium to coarse, weakly cemented, soft, dk. grey.</p> <p>CH SHALE, mod. hard, very dark grey.</p> <p>Note: Thin layer of green shale (bentonitic layer?).</p> <p>Note: Bentonite in shale at 134 ft.</p> <p>Note: Color change to lt. grey.</p>
110					
115					
120					
125					
130					
135					
140					
145					
150					
155					

GROUNDWATER

DEPTH	HOUR	DATE
4.3	12:00	11-15-84
4.3	15:00	11-20-84

JOB NO. RVT01 DATE 11/21/84 TOTAL DEPTH 228.0 feet
 SURFACE ELEVATION 4930.20 RIG TYPE FALLING CF 1500
 TOP OF FILTER PACK 23.00 BORING TYPE NX CORE, ROTARY REAM
 WELL CASING TYPE 2.0-I. SCHED. 40 PVC LOCATION N 21007.20 E 27725.90
 COMPLETION WIND RIVER FM. (LWR AQUITARD) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
160					WIND RIVER FM., Continued.
165				SP	SANDSTONE, fine to med., moderately soft, lt. grey.
170				CH	SHALE, high plasticity, lt. grey.
175					
180					
185				SM	SANDSTONE, silty, fine, mod. soft, lt. grey.
190				CH	SHALE, mod. soft, grey.
195				SM CH	SANDSTONE, silty, very fine, banded and varved, lt. grey. SHALE, with thin sandstone lenses of sandstone, lt. grey.
200				SM	SANDSTONE, med. to fine, silty, dark grey.
205				SP	Note: After coring to 201 ft. hole reamed to 228 ft. with out logging beyond core depth.

GROUNDWATER			
DEPTH	HOUR	DATE	
4.3	12:00	11-15-84	
4.3	15:00	11-20-84	

JEG TAC TEAM

JOB NO. RV701 DATE 11/21/84 TOTAL DEPTH 228.0 feet
 SURFACE ELEVATION 4930.20 RIG TYPE FALLING CF 1500
 TOP OF FILTER PACK 23.00 BORING TYPE NX CORE, ROTARY REAM
 WELL CASING TYPE 2.0-I. SCHED. 40 PVC LOCATION N 21007.20 E 27725.90
 COMPLETION WIND RIVER FM. (LWR AQUITARD) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
210	[Hatched pattern]		[Dotted pattern]		
215					
220					
225					
230					LOG FROM 201 TO 228 NOT CONFIRMED. TD AT 228 FT. HOLE BACKFILLED TO SET WELL AT 32 FEET.
235					
240					
245					
250					
255					
260					

GROUNDWATER

DEPTH	HOUR	DATE
4.3	12:00	11-15-84
4.3	15:00	11-20-84

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JOB NO. RVT01 DATE 12/04/84 TOTAL DEPTH 215.0 feet
 SURFACE ELEVATION 4930.20 WELL OWNER G.SMITH
 DEPTH OF SEAL 35.50 BORING TYPE ROTARY MUD
 WELL CASING TYPE 2.0-IN.SCHED.40 PVC LOCATION N 21012.90 E 27736.90
 COMPLETION WIND RIVER FM. (CONFINED) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Hole drilled to 215 ft.; PVC well installed to 46 feet.		CH	ALLUVIUM:
		Surface casing grouted in-place to 20 ft.		GW	SILTY CLAY, trace fine to med. sand, med. to high plasticity, brown.
5		Protective steel casing placed to 4 feet.			SANDY COBBLES, with fine to coarse gravel.
10		Backfill of cement grout w/ bentonite placed to 31.5 feet.			
15				CL	WIND RIVER FM.:
20					CLAYSTONE, some medium to fine sand, med. hard, dark grey.
25					
30		Bentonite pellet seal installed at 31.5 to 35.5 feet.		SP	SANDSTONE, fine, mod. hard, grey.
35		Filter pack of 20-40 sand installed from 35.5 to 45.5 feet.			
40		Well screen, .010 slot, placed at 39.2 to 44.2 ft.			
45		Blank sump placed at 44.2 to 46.2 ft.		SM	SILTY SANDSTONE, fine, mod. hard. grey.
50		Bentonite pellets placed from 45.5 to 49 ft. Concrete sand fill placed from 49 to 53 ft.		CL	SHALE, with interbedded claystone and siltstone, mod. hard, dk. grey.

GROUNDWATER

DEPTH	HOUR	DATE
4.7		1-14-85
4.4		4-17-87

JOB NO. RVTO1 DATE 12/04/84

TOTAL DEPTH 215.0 feet

SURFACE ELEVATION 4930.20

RIG TYPE FALLING CF 1500

TOP OF FILTER PACK 35.50

BORING TYPE ROTARY MUD

WELL CASING TYPE 2.0-IN. SCHED. 40 PVC

LOCATION N 21012.90 E 27736.90

COMPLETION WIND RIVER FM. (CONFINED)

DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification		
55		Cement/ bentonite grout fill placed from 53 to 215 ft.			WIND RIVER FM., Continued.		
60					Note: Predominately shale.		
65							
70							
75					Note: Occasional thin fine sandstone layer.		
80							
85						SP	SANDSTONE, fine to med., weakly cemented, grey to white.
90							
95							
100							

GROUNDWATER

DEPTH	HOUR	DATE

JOB NO. RVT01 DATE 12/04/84 TOTAL DEPTH 215.0 feet
 SURFACE ELEVATION 4930.20 RIG TYPE FAILING CF 1500
 TOP OF FILTER PACK 35.50 BORING TYPE ROTARY MUD
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC LOCATION N 21012.90 E 27736.90
 COMPLETION WIND RIVER FM. (CONFINED) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
105					WIND RIVER FM., Continued.
110					
115				CL	SHALE to claystone, grey to dk. grey.
120					
125					
130					
135					
140					
145					
150					
155					

GROUNDWATER		
DEPTH	HOUR	DATE

JEG TAC TEAM

JOB NO. RV701 DATE 12/04/84
 SURFACE ELEVATION 4930.20
 TOP OF FILTER PACK 35.50
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (CONFINED)

TOTAL DEPTH 215.0 feet
 RIG TYPE FAILING CF 1500
 BORING TYPE ROTARY MUD
 LOCATION N 21012.90 E 27736.90
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
160					WIND RIVER FM., Continued.
165				SM	SILTY SANDSTONE, medium grained, grey.
170				CH	SHALE, mod. weathered, little to some fine sand, grey to dk. grey.
175					
180					Note: some zones with high plasticity.
185					
190					
195				SM	SILTY SANDSTONE, fine, grey to lt. grey.
200				SP	SANDSTONE, medium to coarse grained, lt. grey.
205					

GROUNDWATER

DEPTH	HOUR	DATE

JOB NO. RVT01 DATE 12/04/84 TOTAL DEPTH 215.0 feet
 SURFACE ELEVATION 4930.20 RIG TYPE FALING CF 1500
 TOP OF FILTER PACK 35.50 BORING TYPE ROTARY MUD
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC LOCATION N 21012.90 E 27736.90
 COMPLETION WIND RIVER FM. (CONFINED) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
210					
215					TD AT 213 FEET.
220					
225					
230					
235					
240					
245					
250					
255					
260					

GROUNDWATER		
DEPTH	HOUR	DATE

JEG TAC TEAM

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JOB NO. RVT01 DATE 12/04/83
 SURFACE ELEVATION 4930.20
 TOP OF FILTER PACK 87.00
 WELL CASING TYPE 2.0-IN.SCHED.40 PVC
 COMPLETION WIND RIVER FM. (LWR CONFINED)

TOTAL DEPTH 214.0 feet
 RIG TYPE FAILING CF 1500
 BORING TYPE ROTARY MUD
 LOCATION N 21000.80 E 27748.60
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Hole drilled to 210 ft.; PVC well installed to 100 feet. Surface casing grouted in-place to 19 ft.		CH	ALLUVIUM: — SILTY CLAY, with fine sand, dark yellowish brown.
5				GW	SANDY COBBLES, with f-c gravel
10		Protective steel casing placed to 4 feet.			
15		Backfill of cement grout w/ bentonite placed to 84 feet.			
20				CL	WIND RIVER FM., Continued. CLAYSTONE, trace med. sand, grey.
25					
30				CL	SHALE, mod. hard, grey.
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
1.4		1-14-85
3.9		4-17-87

JOB NO. RV101 DATE 12/04/83
 SURFACE ELEVATION 4930.20
 TOP OF FILTER PACK 87.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (LWR CONFINED)

TOTAL DEPTH 214.0 feet
 RIG TYPE FALING CF 1500
 BORING TYPE ROTARY MUD
 LOCATION N 21000.80 E 27748.60
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55					WIND RIVER FM., Continued.
56					
57					
58					
59					
60					
61					
62					
63					
64					
75					Note: Shale is interbedded with thin claystone and siltstone layers from 75 feet.
76					
77					
78					
79					
80					
81					
82					
83					
84					
85		Bentonite pellet seal installed at 84 to 87 feet.			SANDSTONE, mod. soft, grey.
87		Filter pack of 20-40 sand installed from 87 to 98 feet.			
93		Well screen, .010 slot, placed at 93 to 98 ft.			
98		Blank sump placed at 98 to 100 ft.			
99					
100					
101					
102					
103					
104					

GROUNDWATER		
DEPTH	HOUR	DATE
1.4		1-14-85
3.9		4-17-87

JEG TAC TEAM

PROJECT RIVERTON SITE, WYO.: UMTRA

LOG OF WELL BORING NO. 703

JOB NO. RVT01 DATE 12/04/83
 SURFACE ELEVATION 4930.20
 TOP OF FILTER PACK 87.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (LWR CONFINED)

TOTAL DEPTH 214.0 feet
 RIG TYPE FALLING CF 1500
 BORING TYPE ROTARY MUD
 LOCATION N 21000.80 E 27748.60
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification	
105		Cement/ bentonite grout fill placed from 98 to 210 ft.			WIND RIVER FM., Continued.	
110						
115					CL	SHALE, with interbedded claystone and siltsone seams, trace sand, grey.
120						
125						
130						
135						
140						
145						
150						
155						

GROUNDWATER

DEPTH	HOUR	DATE
1.4		1-14-85
3.9		4-17-87

JEG TAC TEAM

JOB NO. RVT01 DATE 12/04/83
 SURFACE ELEVATION 4930.20
 TOP OF FILTER PACK 87.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (LWR CONFINED)

TOTAL DEPTH 214.0 feet
 RIG TYPE FALLING CF 1500
 BORING TYPE ROTARY MUD
 LOCATION N 21000.80 E 27748.60
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
160					WIND RIVER FM., Continued.
165				SM	SILTY SANDSTONE, fine, mod. hard, grey to black.
170				CL	SHALE, with interbedded claystone and siltstone, grey.
175					
180					
185					
190					
195					
200				SP	SANDSTONE, fine to coarse, mod. hard, grey.
205					

GROUNDWATER		
DEPTH	HOUR	DATE
1.4		1-14-85
3.9		4-17-87

LOG OF WELL BORING NO. 703

JOB NO. RVT01 DATE 12/04/83 TOTAL DEPTH 214.0 feet
 SURFACE ELEVATION 4930.20 RIG TYPE FAILING CF 1500
 TOP OF FILTER PACK 87.00 BORING TYPE ROTARY MUD
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC LOCATION N 21000.80 E 27748.60
 COMPLETION WIND RIVER FM. (LWR CONFINED) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
210					TD AT 210 FEET.
215					
220					
225					
230					
235					
240					
245					
250					
255					
260					

GROUNDWATER

DEPTH	HOUR	DATE
1.4		1-14-85
3.9		4-17-87

JEG TAC TEAM

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JOB NO. RVT01 DATE 12/07/84
 SURFACE ELEVATION 4935.10
 TOP OF FILTER PACK 30.50
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (CONFINED)

TOTAL DEPTH 215.0 feet
 RIG TYPE FALING CF 1500
 BORING TYPE ROTARY MUD
 LOCATION N 22396.60 E 27033.80
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Hole drilled to 210 ft.; PVC well installed to 39 feet.		SM GP	ALLUVIUM: SILTY SAND, fine, nonplastic, lt. brown.
5		Surface casing grouted in-place to 20.5 ft.			GRAVELLY COBBLES.
10		Protective steel casing placed to 4 feet.			
15		Backfill of cement grout w/ bentonite placed to 27.2 feet.		ML	WIND RIVER FM.: SILTSTONE, trace fine sand, lt. grey.
20					
25					
30		Bentonite pellet seal installed at 27.2 to 30.5 feet.			
35		Filter pack of 20-40 sand installed from 30.5 to 39 feet.		SM	SILTY SANDSTONE, fine to med., mod. cemented, grey.
40		Well screen, .010 slot, placed at 31.2 to 36.2 ft.			
45		Blank sump placed at 36.2 to 39 ft.		CL	SHALE, with interbedded siltstone and claystone seams, grey to dk. grey.
50		Cement/ bentonite grout fill placed from 39 to 210 ft.			

GROUNDWATER		
DEPTH	HOUR	DATE
7.7		1-16-85

JOB NO. RVTO1 DATE 12/07/84
 SURFACE ELEVATION 4935.10
 TOP OF FILTER PACK 30.50
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (CONFINED)

TOTAL DEPTH 215.0 feet
 RIG TYPE FALING CF 1500
 BORING TYPE ROTARY MUD
 LOCATION N 22396.60 E 27033.80
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55					WIND RIVER FM., Continued.
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					
				SM	SILTY SANDSTONE, very fine, mod. cemented, grey.

GROUNDWATER

DEPTH	HOUR	DATE
7.7		1-16-85

JOB NO. RVT01 DATE 12/07/84 TOTAL DEPTH 215.0 feet
 SURFACE ELEVATION 4935.10 RIG TYPE FAILING CF 1500
 TOP OF FILTER PACK 30.50 BORING TYPE ROTARY MUD
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC LOCATION N 22396.60 E 27033.80
 COMPLETION WIND RIVER FM. (CONFINED) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
160					WIND RIVER FM., Continued.
165				SP	SANDSTONE, fine to medium grained, weakly cemented, mod. soft, grey. Note: increasing silt content from 167 ft.
170					
175					
180				CL	SHALE, with interbedded claystone and siltstone seams, grey.
185					
190					
195					
200				SP	SANDSTONE, medium grained, white to grey.
205					

GROUNDWATER

DEPTH	HOUR	DATE
7.7		1-16-85

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JOB NO. RVT01 DATE 12/03/84
 SURFACE ELEVATION 4930.10
 TOP OF FILTER PACK 35.50
 WELL CASING TYPE 6.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (CONFINED)

TOTAL DEPTH 50.0 feet
 RIG TYPE FALLING CF 1500
 BORING TYPE ROTARY MUD (PUMP TEST)
 LOCATION N 21000.80 E 27735.80
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Hole drilled to 50 ft.; PVC well installed to 50 feet.		CH	ALLUVIUM:—
5		Surface casing grouted in-place to 19.9 ft.		GW	SANDY COBBLES.
10		Protective steel casing placed to 4 feet.			
15		Backfill of cement grout w/ bentonite placed to 33.5 feet.			
20				CH SP	WIND RIVER FM: CLAYSTONE, trace med. to fine sand, medium to high plasticity, mod. weathered, moist, dk grey.
25				ML	SANDSTONE, medium to fine, trace silt, hard, dk. grey. SILTSTONE, thinly bedded, mod. soft, dk. grey.
30					
35		Bentonite pellet seal installed at 33.5 to 35.5 feet. Filter pack of 20-40 sand installed from 35.5 to 50 feet.		SM	SILTY SANDSTONE, fine to med., mod. soft, some color banding, grey.
40		Well screen, .010 slot, placed at 38 to 48 ft.			
45					
50		Blank sump placed at 48 to 50 ft.			
					TD AT 50 FEET.

GROUNDWATER

DEPTH	HOUR	DATE
4.1		5-28-85
4.0		4-17-87

JOB NO. RVT01 DATE 11/29/84 TOTAL DEPTH 21.5 feet
 SURFACE ELEVATION 4931.10 WELL OWNER G. SMITH
 DEPTH OF SEAL 12.80 BORING TYPE ROTARY MUD
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC LOCATION N 20033.90 E 28160.60
 COMPLETION ALLUVIUM DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		PVC well installed to 20.0 feet.		CL	ALLUVIUM: SILTY CLAY, trace fine sand, medium plasticity, brown.
5		Protective steel casing placed to 3 feet.		SC	CLAYEY SAND, med. plasticity, brown.
10		Backfill of cement grout w/ bentonite placed to 8.2 feet.		GP	GRAVELLY COBBLES, brown to white.
15		Bentonite pellet seal installed at 8.2 to 12.8 feet.			
20		Filter pack of concrete sand installed from 12.8 to 21.5 feet. Well screen, .010 slot, placed at 13.0 to 18.0 ft.		SM	WIND RIVER FM.: SILTY SANDSTONE, medium, grey.
25		Blank sump placed at 18.0 to 20.0 ft.			TD AT 20 FEET.
30					
35					
40					
45					
50					

GROUNDWATER		
DEPTH	HOUR	DATE
6.7		1-13-85

JOB NO. RVTO1 DATE 12/04/84 TOTAL DEPTH 18.0 feet
 SURFACE ELEVATION 4930.40 RIG TYPE FALLING CF 1500
 TOP OF FILTER PACK 7.50 BORING TYPE ROTARY, REVERT MUD
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC LOCATION N 21008.40 E 27745.20
 COMPLETION ALLUVIUM DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Drilled to 18 ft.; PVC well installed to 16.8 feet.		CH	ALLUVIUM: SILTY CLAY, trace fine sand, med. to high plasticity, dark yellowish brown.
5		Protective steel casing placed to 4 feet.		GP	GRAVELLY COBBLES.
10		Backfill of cement grout w/ bentonite placed to 5.5 feet.			
15		Bentonite pellet seal installed at 5.5 to 7.5 feet.			
		Filter pack of concrete sand installed from 7.5 to 16.7 feet.			
		Well screen, .010 slot, placed at 9.8 to 14.8 ft.			
20		Blank sump placed at 14.8 to 16.8 ft.			TD AT 18.0 FEET
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
3.8		1-14-85
3.6		4-17-87

JOB NO. RVT01 DATE 12/27/84
 SURFACE ELEVATION 4930.30
 DEPTH OF SEAL 25.50
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (AQUITARD)

TOTAL DEPTH 28.8 feet
 WELL OWNER G. SMITH
 BORING TYPE ROTARY MUD
 LOCATION N 20994.10 E 27746.00
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Core drilled to 27.8 ft.; reamed to 28 ft.; PVC well installed to 28 feet. Protective steel casing placed to 3 feet.		CL	ALLUVIUM: SILTY CLAY, trace fine sand, mod. plastic, dark yellowish brown.
5	GP			SANDY COBBLES.	
10		Backfill of cement grout w/ bentonite placed to 23.5 feet.			
15					
20		Bentonite pellet seal installed at 23.5 to 25.5 feet.		ML SM	WIND RIVER FM.: SILTSTONE, blueish grey. SILTY SANDSTONE, fine, soft to mod soft, moist, grey.
25		Filter pack of #20 - 40 sand installed from 25.5 to 28 feet.		ML CL	SILTSTONE, with interbedded sandstone seams. SHALE, dry, lt. grey.
30		Well screen, .010 slot, placed at 25.5 to 26.5 ft. Blank sump placed at 26.5 to 28 ft.			TD AT 28.0 FEET.
35					
40					
45					
50					

GROUNDWATER		
DEPTH	HOUR	DATE
8.7		1-09-85
5.0		4-17-87

JOB NO. RV101 DATE 12/27/84
 SURFACE ELEVATION 4930.20
 TOP OF FILTER PACK 84.00
 WELL CASING TYPE 6.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (CONFINED)

TOTAL DEPTH 114.0 feet
 RIG TYPE FALING CF 1500
 BORING TYPE ROTARY-AIR & FOAM
 LOCATION N 21005.60 E 27748.90
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Drilled to 111 ft.; PVC well installed to 107 feet.		CL	ALLUVIUM: SILTY CLAY, some fine sand, med. to high plasticity, dk. yellowish brn.
5		Protective steel casing placed to 3 feet.		GP	SANDY COBBLES.
10		Backfill of cement grout w/ bentonite placed to 80 feet.			
15					
20				ML	WIND RIVER FM.: SILTSTONE, trace clay, medium plasticity, brown.
25					
30				SM	SILTY SANDSTONE, lt. grey.
35				CL	SHALE, with interbedded claystone and siltstone, lt. grey.
40				SM	SILTY SANDSTONE, fine, lt. grey. Note: Occasional thin sandstone seam.
45					
50				SP	SANDSTONE, fine, grey to salt and pepper.

GROUNDWATER

DEPTH	HOUR	DATE
2.9		4-17-87

JOB NO. RVT01 DATE 12/27/84
 SURFACE ELEVATION 4930.20
 TOP OF FILTER PACK 84.00
 WELL CASING TYPE 6.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (CONFINED)

TOTAL DEPTH 114.0 feet
 RIG TYPE FALLING CF 1500
 BORING TYPE ROTARY-AIR & FOAM
 LOCATION N 21005.60 E 27748.90
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55					Note: Substantial shale interbeds.
60				CL	SHALE, occasional thin sandstone seam, lt. grey. WIND RIVER FM., Continued.
65					
70					
75					
80		Bentonite pellet seal installed at 80 to 84 feet.		SP	SANDSTONE, fine, grey
85		Filter pack of 3/8" gravel installed from 84 to 111 feet.		CL	SHALE, with interbedded fine sandstone.
90		Well screen, .010 slot, placed at 85 to 105 ft.		SM	SILTY SANDSTONE, very fine grained, salt and pepper grey.
95				SP	SANDSTONE, fine, grey
100					

GROUNDWATER

DEPTH	HOUR	DATE
2.9		4-17-87

JEG TAC TEAM

JOB NO. <u>RVT01</u>	DATE <u>12/27/84</u>	TOTAL DEPTH <u>114.0 feet</u>
SURFACE ELEVATION <u>4930.20</u>	RIG TYPE <u>FAILING CF 1500</u>	
TOP OF FILTER PACK <u>84.00</u>	BORING TYPE <u>ROTARY-AIR & FOAM</u>	
WELL CASING TYPE <u>6.0-IN. SCHED. 40 PVC</u>	LOCATION <u>N 21005.60 E 27748.90</u>	
COMPLETION <u>WIND RIVER FM. (CONFINED)</u>	DATUM <u>MSL, GROUND SURFACE</u>	

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
105	█	Blank sump placed at 105 to 107 ft.	█		Note: Grain size medium to coarse from 104 ft. WIND RIVER FM., Continued.
110	█				
115	█				
120	█				TD AT 111 FEET.
125	█				
130	█				
135	█				
140	█				
145	█				
150	█				
155	█				

GROUNDWATER		
DEPTH	HOUR	DATE
2.9		4-17-87

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JOB NO. RVT01 DATE 11/29/84
 SURFACE ELEVATION 4947.20
 TOP OF FILTER PACK 8.50
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 20.0 feet
 RIG TYPE MIDWAY 15 M
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 25355.60 E 23982.60
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Drilled to 20 ft.; PVC well installed to 18.2 feet.		CL	ALLUVIUM: SILTY CLAY, medium plasticity.
5		Protective steel casing placed to 4 feet.		GP	SANDY COBBLES.
10		Backfill of cement grout w/ bentonite placed to 2 feet. Bentonite pellet seal installed at 2 to 8 feet.		SM	SILTY SAND, greyish brown.
15		Filter pack of concrete sand installed from 8 to 20 feet. Well screen, .010 slot, placed at 11.2 to 16.2 ft.		GP SM	SANDY COBBLES. WIND RIVER FM.: SILTY SANDSTONE, soft, weathered, grey.
20		Blank sump placed at 16.2 to 18.2 ft.			TD AT 20 FEET.
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
7.0		1-19-85
6.1		4-17-87

JEG TAC TEAM

JOB NO. RVT01 DATE 11/30/84 TOTAL DEPTH 21.5 feet
 SURFACE ELEVATION 4943.50 WELL OWNER G. SMITH
 DEPTH OF SEAL 6.00 BORING TYPE ROTARY W/ REVERT
 WELL CASING TYPE 2.0-INSCHED. 40 PVC LOCATION N 26088.00 E 24670.90
 COMPLETION ALLUVIUM DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Drilled to 21.2 ft.; PVC well installed to 17.8 feet.		SM	ALLUVIUM: SILTY SAND, trace clay, fine grained, brown. GRAVELLY COBBLES, with sand.
5		Protective steel casing placed to 4 feet.		GW	
10		Backfill of cement grout w/ bentonite placed to 4 feet.			
15		Bentonite pellet seal installed at 4 to 6 feet.			
20		Filter pack of concrete sand installed from 6 to 21.2 feet.		ML	WIND RIVER FM.: SILTSTONE, sandy, occ. gravel, grey.
25		Well screen, .010 slot, placed at 10.8 to 15.8 ft.			
30		Blank sump placed at 15.8 to 17.8 ft.			
35					
40					
45					
50					
TD AT 21.2 FEET					

GROUNDWATER

DEPTH	HOUR	DATE
6.4		1-10-85
4.1		4-17-87

JOB NO. RVT01 DATE 11/30/84 TOTAL DEPTH 19.5 feet
 SURFACE ELEVATION 4943.50 RIG TYPE MIDWAY 15 M
 TOP OF FILTER PACK 10.00 BORING TYPE ROTARY W/ REVERT
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC LOCATION N 26931.40 E 25462.50
 COMPLETION ALLUVIUM. DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Drilled to 19.5 ft.; PVC well installed to 17.6 feet.		SM	ALLUVIUM: SILTY SAND, fine, tr. clay, dark brown.
5		Protective steel casing placed to 4 feet.		GW	GRAVELLY COBBLES, with f-cr sand, brown.
10		Backfill of cement grout w/ bentonite placed to 8 feet. Bentonite pellet seal installed at 8 to 10 feet.			
15		Filter pack of concrete sand installed from 10 to 19.5 feet.		SM	WIND RIVER FM: SILTY SANDSTONE, fine, grey.
20		Well screen, .010 slot, placed at 10.6 to 15.6 ft.			
25		Blank sump placed at 15.6 to 17.6 ft.			TD AT 19.5 FEET.
30					
35					
40					
45					
50					

GROUNDWATER		
DEPTH	HOUR	DATE
7.9		5-25-85
5.8		4-17-87

JEG TAC TEAM

JOB NO. RVT01 DATE 11/30/84
 SURFACE ELEVATION 4941.60
 TOP OF FILTER PACK 4.50
 WELL CASING TYPE 2.0-IN. SCHED 40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 16.5 feet
 RIG TYPE MIDWAY 15 M
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 27577.40 E 25984.30
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0				ML	ALLUVIUM: SANDY SILT, fine grained, low plasticity, dark brown.
5		Drilled to 16.5 ft.; PVC well installed to 16.5 feet. Protective steel casing placed to 4 feet.		GP	GRAVELLY COBBLES.
10		Backfill of cement grout w/ bentonite placed to 2.5 feet. Bentonite pellet seal installed at 2.5 to 4.5 feet.			
15		Filter pack of concrete sand installed from 4.5 to 16.5 feet.		SM	WIND RIVER FM: SILTY SANDSTONE, fine, slightly plastic, grey.
20		Well screen, .010 slot, placed at 9.5 to 14.5 ft. Blank sump placed at 14.5 to 16.5 ft.			TD AT 16.5 FEET.
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
4.1		5-25-85
6.7		4-17-87

JEG TAC TEAM

JOB NO. RVT01 DATE 12/10/84
 SURFACE ELEVATION 4941.20
 TOP OF FILTER PACK 10.00
 WELL CASING TYPE 2.-IN.SCHED.40 PVC
 COMPLETION ALLUVIUMM

TOTAL DEPTH 18.0 feet
 RIG TYPE FALLING CF 1500
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 28193.90 E 26433.90
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Drilled to 18 ft.; PVC well installed to 18 feet.		ML	ALLUVIUM: CLAYEY SILT, some fine grained sand, med. plasticity, Lt. brown.
5		Protective steel casing placed to 4 feet.		GW	GRAVELLY COBBLES, with f. - c sand.
10		Backfill of cement grout w/ bentonite placed to 8.5 feet. Bentonite pellet seal installed at 8.5 to 10 feet.			Note: Cobbles content decreasing with depth.
15		Filter pack of concrete sand installed from 10 to 18 feet. Well screen, .010 slot, placed at 11 to 16 ft.			
20		Blank sump placed at 16 to 18 ft.			TD AT 18 FEET.
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
6.8		1-10-85
4.5		4-17-87

JOB NO. RVT01 DATE 11/29/84
 SURFACE ELEVATION 4938.50
 TOP OF FILTER PACK 6.80
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 18.5 feet
 RIG TYPE FALLING CF 1500
 BORING TYPE ROTARY W/ REVERT
 LOCATION N 29017.20 E 27023.60
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Drilled to 18.5 ft.; PVC well installed to 18.5 feet.		SC	ALLUVIUM: —
5		Protective steel casing placed to 4 feet.		GW	CLAYEY SAND, fine, low plasticity, greyish brown.
10		Backfill of cement grout w/ bentonite placed to 4 feet.			SANDY GRAVEL, with cobbles.
15		Bentonite pellet seal installed at 4 to 6.8 feet.			Decreasing cobbles and gravels with depth.
20		Filter pack of concrete sand installed from 6.8 to 18.5 feet.			
25		Well screen, .010 slot, placed at 11.5 to 16.5 ft.			
30				SM	WIND RIVER FM.: SILTY SANDSTONE, fine, grey.
35		Blank sump placed at 16.5 to 18.5 ft.			TD AT 18.5 FEET.
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
		1-10-85
		4-17-87

JEG TAC TEAM

JOB NO. RVT01 DATE 03/06/93
 SURFACE ELEVATION 4936.40
 TOP OF FILTER PACK 5.50
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 12.5 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD
 LOCATION N 22764.49 E 25873.34
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 12.5 feet.		SC	ALLUVIUM: SAND, clayey, fine, medium plasticity, brown.
5		Placed steel protective casing to 2 feet Placed bentonite chip seal from surface to 5.5 feet. Installed #8-12 size filter pack from 5.5 to 12.5 ft.		GW	SAND, GRAVEL AND COBBLES, with boulders to 12-in. estimated, grey.
10				CH	WIND RIVER FM: CLAY/SHALE, high plasticity, highly weathered, greyish brown.
15		Placed .050-in. slot /W #8-12 filter prepacked screen from 7.5 to 12.5 feet. Well located near middle of former pile area.			TD AT 12.5 FEET.
20					
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
4.9		
4.8		4/19/93

JEG TAC TEAM

JOB NO. RVT01 DATE 03/06/93
 SURFACE ELEVATION 4936.40
 TOP OF FILTER PACK 29.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 50.0 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD
 LOCATION N 22762.23 E 25889.34
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 49.5 feet. Installed grout seal to 6.0 ft.		SC	ALLUVIUM: CLAYEY SAND, medium plasticity, brown.
5		Placed steel protective casing to 13 feet. Placed bentonite chip seal from 6.0 to 29.0 feet.		GW	SAND, GRAVEL AND COBBLES, with boulders to 12-inches, grey.
10		Well located near middle of former pile area.		CL	WIND RIVER FM: CLAY/SHALE, some sand, highly weathered, low plasticity, greyish brown.
15				CL	SHALE, mod. hard, dark grey.
20				SW	SANDSTONE, conglomeritic, poorly consolidated, grey.
25					
30					
35		Installed #8-12 size filter pack from 29.0 to 49.5 ft.			
40		Placed .050-in. slot /W #8-12 filter prepacked screen from 37.5 to 47.5 feet.		SP	SANDSTONE, medium to fine, moderately cemented, grey.
45		Placed blank sump from 47.5 to 49.5 ft.			
50		Cave-in fill from 49.5 to 50.0 ft.		CL	SHALE, moderately hard, dark grey. TD AT 50.0 FEET.

GROUNDWATER

DEPTH	HOUR	DATE
5.0		
4.9		4/19/93

JOB NO. RVT01 DATE 03/02/93

TOTAL DEPTH 18.0 feet

SURFACE ELEVATION 4937.00

RIG TYPE MAYHEW 1500

TOP OF FILTER PACK 10.00

BORING TYPE ROTARY MUD

WELL CASING TYPE 2.0-IN. SCHED. 40 PVC

LOCATION N 21673.56 E 25406.28

COMPLETION ALLUVIUM.

DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 18.0 feet.		GM	FILL: SILTY SAND, GRAVEL AND COBBLES.
		Installed grout seal to 3.0 ft.		GW	
5		Placed steel protective casing to 2 feet.			ALLUVIUM: SAND, GRAVEL, AND COBBLES, with boulders to 12 inches dia., well rounded, brown.
		Placed bentonite chip seal from 3.0 to 10.0 feet.			
10		Well located on h'way R/W south of pile.			
		Installed #8-12 size filter pack from 10.0 to 18.0 ft.			
15		Placed .050-in. slot /W #8-12 filter prepacked screen from 13.0 to 18.0 feet.		CL	WIND RIVER FM.: SILTY CLAY/SHALE, highly weathered, little fine sand, medium plasticity, grey. TD AT 18 FEET.
20		No sump installed.			
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
5.8		
5.5		4/19/93

JOB NO. RVT01 DATE 02/22/93
 SURFACE ELEVATION 4937.90
 TOP OF FILTER PACK 3.50
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 10.5 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD
 LOCATION N 20729.00 E 23677.37
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 10.5 feet.		CL	ALLUVIUM: SANDY CLAY, medium plasticity, dark brown.
5		Installed grout seal to 1.0 ft. Placed steel protective casing to 2 feet in 8 5/8-in. hole. Placed bentonite chip seal from 1.0 to 3.5 feet.		GW	
10		Installed #8-12 size filter pack from 3.5 to 10.5 ft. Placed .050-in. slot /W #8-12 filter prepacked screen from 5.5 to 10.5 feet.		CL	WIND RIVER FM: SANDY CLAY/SHALE, medium to high plasticity, yellowish-brown. TD AT 10.5 FEET.
15		No sump installed because of aquifer thickness.			
20		THE WELL IS LOCATED OFF H'WAY R/W ON ST. STEPHENS PROPERTY.			
25					
30					
35					
40					
45					
50					

GROUNDWATER		
DEPTH	HOUR	DATE
1.7		

JEG TAC TEAM

JOB NO. RVT01 DATE 02/21/93
 SURFACE ELEVATION 4937.90
 TOP OF FILTER PACK 27.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 49.0 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD / AIR
 LOCATION N 20739.68 E 23682.91
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 49.0 feet.		CL	ALLUVIUM:
		Installed grout seal to 3.0 ft.		GW	SILTY CLAY, medium to low plasticity, dark brown.
5		Placed steel protective casing to 12 feet in 8 5/8-in hole.			SAND, GRAVEL, AND COBBLES, well graded, with boulders to 12-inch, grey.
10		Placed bentonite chip seal from 3.0 to 27.0 feet.		CH	WIND RIVER FM.:
		WELL IS LOCATED OFF H'WAY R/W ON ST. STEPHENS PROPERTY.		SW	SANDY CLAY/SHALE, medium to high plasticity, yellowish brown.
15					SANDSTONE, medium to coarse grained, mod. soft, weathered, grey.
20					
25					
30				SP	SANDSTONE, fine, mod. hard, dark grey.
35		Installed #8-12 size filter pack from 27.0 to 49.0 ft.			Note: Becoming medium grained, and light grey from 35 feet, then grading back to dark and finer grained with depth.
40		Placed .050-in. slot /W #8-12 filter prepacked screen from 37.0 to 47.0 feet.			
45		Placed blank sump from 47.0 to 49.0 ft.			
50				CL	SHALE, mod. hard, dark grey.
					TD AT 49 FEET.

GROUNDWATER

DEPTH	HOUR	DATE
3.1		
3.3		4/19/93

JOB NO. RVT01 DATE 02/24/93 TOTAL DEPTH 18.0 feet
 SURFACE ELEVATION 4935.20 RIG TYPE MAYHEW 1500
 TOP OF FILTER PACK 4.00 BORING TYPE ROTARY MUD
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC LOCATION N 22246.56 E 26603.32
 COMPLETION ALLUVIUM DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification	
0		Installed 2.0-in. PVC well to 18.0 feet. No grout seal installed because of flush cap req'd by H'way Dept. Steel protective casing set at 2 feet in 8 5/8-in dia. hole. Placed bentonite chip seal from surface to 4.0 feet. Installed #8-12 size filter pack from 4.0 to 18.0 ft. Placed .050-in. slot /W #8-12 filter prepacked screen from 6.0 to 16.0 feet. Placed 2-ft. sump below 16 feet.		SM	FILL: SILTY SAND, some fine gravel, nonplastic, brown.	
				SC		
5					GW	ALLUVIUM: CLAYEY SAND, little fine gravel, low to nonplastic, brown. SAND, GRAVEL AND COBBLES, boulders to 18-inch, nonplastic, grey.
10						
15						
20					CH	WIND RIVER FM.: CLAY/SHALE, high plasticity, highly weathered, greyish brown. TD AT 18 FEET.
25						
30			Well located in Highway R/W and requires flush mounted surface casing and cap. Special rubber seal installed in well top. A non-standard locking cap was used for flush mounting.			
35						
40						
45						
50						

GROUNDWATER		
DEPTH	HOUR	DATE
6.1		

JOB NO. RVT01 DATE 02/23/93
 SURFACE ELEVATION 4935.00
 TOP OF FILTER PACK 31.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 49.0 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD / AIR
 LOCATION N 22254.32 E 26616.55
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 47.5 feet.		SM	FILL:
		Installed grout seal to 5.0 ft.		CL	SILTY SAND.
5		Placed steel protective casing to 16.5 feet.		GW	ALLUVIUM: SANDY CLAY, med. to low plasticity, brown.
		Placed bentonite chip seal from 5.0 to 31.0 feet.			SAND, GRAVEL AND COBBLES, boulder size to 12 inches, grey.
10					
15					
20		Well located in H'way R/W, and requires casing to be flush with surface. A special rubber casing seal and locking cap were used.		CH	WIND RIVER FM.: CLAY/SHALE, weathered, with some sand, med. to high plasticity, greyish brown.
25				SP	SANDSTONE, med. to fine grained, grey.
30					
35		Installed #8-12 size filter pack from 31.0 to 47.5 ft.			
40		Placed .050-in. slot /W #8-12 filter prepacked screen from 35.5 to 45.5 feet.			
45		Placed blank sump from 45.5 to 47.5 ft.			
50		Cave-in fill from 47.5 to 49.0 ft.		CL	SILTY SHALE, mod. hard, blueish grey.
					TD AT 49 FEET.

GROUNDWATER

DEPTH	HOUR	DATE
6.0		
5.8		4/19/93

JOB NO. RVT01 DATE 03/04/93
 SURFACE ELEVATION 4939.40
 TOP OF FILTER PACK 6.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 16.0 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD
 LOCATION N 24896.73 E 26260.41
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification		
0		Installed 2.0-in. PVC well to 16.0 feet. Installed grout seal to 1.0 ft. Placed steel protective casing to 2 feet in 8 5/8-in. dia. hole. Placed bentonite chip seal from 1.0 to 6.0 feet. Installed #8-12 size filter pack from 6.0 to 16.0 ft. Placed .050-in. slot /W #8-12 filter prepacked screen from 11.0 to 16 feet.		SC	ALLUVIUM: CLAYEY SAND, medium plasticity, brown.		
5	GW			SAND, GRAVEL AND COBBLES, with boulders to 18 inches dia., well graded, grey.			
10							
15	CL			WIND RIVER FM.: SHALE/CLAY, highly weathered, soft, grey. TD AT 16 FEET.			
20				Well located in north west corner of mill site area.			
25							
30							
35							
40							
45							
50							

GROUNDWATER		
DEPTH	HOUR	DATE
5.6		

JOB NO. RV701 DATE 03/04/93 TOTAL DEPTH 38.0 feet
 SURFACE ELEVATION 4939.40 RIG TYPE MAYHEW 1500
 TOP OF FILTER PACK 19.50 BORING TYPE ROTARY MUD
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC LOCATION N 24896.73 E 26260.41
 COMPLETION WIND RIVER FM. (UPR. CONFINED) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 36.5 feet.	[Diagonal hatching pattern]	SC	ALLUVIUM: CLAYEY SAND, medium to low plasticity, brown.
5		Installed grout seal to 5.0 ft. Placed steel protective casing to 17 feet. Placed bentonite chip seal from 5.0 to 19.5 feet.		GW	SANDY GRAVEL AND COBBLES, with boulders to 18 inches, well graded, grey.
10		Well located in northeast corner of mill area.	[Diagonal hatching pattern]	CH	WIND RIVER FM.: SHALE/CLAY, highly weathered, med. to high plasticity, soft, grey.
15				SP	SANDSTONE, med. to fine grained, poorly indurated, grey.
20		Installed #8-12 size filter pack from 19.5 to 36.5 ft.	[Dotted pattern]		
25		Placed .050-in. slot /W #8-12 filter prepacked screen from 24.5 to 34.5 feet.			
30			[Dotted pattern]		
35		Placed blank sump from 34.5 to 36.5 ft.			
38		Cave-in fill from 36.5 to 38.0 ft.		ML	SILTSTONE, very fine grained, mod. hard, dark grey. TD AT 38 FEET.

GROUNDWATER

DEPTH	HOUR	DATE
6.3		4/19/93

JOB NO. RVT01 DATE 04/17/93
 SURFACE ELEVATION 4939.50
 TOP OF FILTER PACK 80.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (LWR. CONFINED)

TOTAL DEPTH 133.0 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD TO AIR
 LOCATION N 24904.00 E 26251.00
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 133.0 feet. Installed grout seal to 4.0 ft.		SC	ALLUVIUM: CLAYEY SAND, medium to low plasticity, coarse to med. sand, brown.
5		Placed steel protective casing to 17 feet. Placed bentonite chip seal from 2.0 to 80.0 feet.		GW	SANDY GRAVEL AND COBBLES, with boulders to 18 inch dia., rounded, greyish brown.
10		Well located in northeast corner of process site.			
15				CH	WIND RIVER FM.: SILTY CLAY/SHALE, highly weathered, little fine sand, highly plasticity, greyish brown. Note; Becomes very stiff to mod. hard tannish grey shale at 17 feet.
20					
25				SP	SANDSTONE, fine to med. fissle, poorly cemented, soft, grey.
30					
35					
40					
45				CL	SHALE, little to some fine sand, soft, grey to dark grey.
50				CL	SHALE, hard, dk. grey.

GROUNDWATER		
DEPTH	HOUR	DATE
4.7		
5.2	4/19/93	

JOB NO. RVT01 DATE 04/17/93 TOTAL DEPTH 133.0 feet
 SURFACE ELEVATION 4939.50 RIG TYPE MAYHEW 1500
 TOP OF FILTER PACK 80.00 BORING TYPE ROTARY MUD TO AIR
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC LOCATION N 24904.00 E 26251.00
 COMPLETION WIND RIVER FM. (LWR. CONFINED) DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55					
60					Note: With sandy lenses, changing to light grey color from 60 to 64 ft..
65					
70					
75					Note: sandy lenses from 74 to 80 feet.
80		Installed #8-12 size filter pack from 80.0 to 133.0 ft.		SM	SANDSTONE, medium to fine, moderately hard, grey. Note: Occ. clayey lenses.
85					Note: Becoming moderately soft from 85 feet.
90				SC	CLAYEY SANDSTONE, medium, soft, grey.
95					
100					

GROUNDWATER

DEPTH	HOUR	DATE
4.7		
5.2	4/19/93	

JOB NO. RVT01 DATE 04/17/93
 SURFACE ELEVATION 4939.50
 TOP OF FILTER PACK 80.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (LWR. CONFINED)

TOTAL DEPTH 133.0 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD TO AIR
 LOCATION N 24904.00 E 26251.00
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
105					
110					
115					
120					
125		Placed .050-in. slot /W #8-12 filter prepacked screen from 121.0 to 131.0 feet.			
130		Placed blank sump from 131.0 to 133.0 ft.		CL	SHALE, hard, dark grey.
135					TD AT 133 FEET.
140					
145					
150					
155					

Note: Becoming harder from 125 ft. fine to med. grained, grey.

GROUNDWATER		
DEPTH	HOUR	DATE
4.7		
5.2	4/19/93	

JEG TAC TEAM

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JOB NO. RVT01 DATE 03/05/93
 SURFACE ELEVATION 4949.50
 TOP OF FILTER PACK 21.50
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 40.0 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD / AIR
 LOCATION N 24893.70 E 23811.24
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 39.0 feet. Installed grout seal to 5.0 ft. Placed steel protective casing to 18 feet in 8 5/8-in. dia. hole in bentonite seal. Placed bentonite chip seal from 5.0 to 21.5 feet. Well located in northwest corner of mill area.		GW	ALLUVIUM: SAND, GRAVEL AND COBBLES, with boulders to 18 inches, grey
5					
10					
15				CH	WIND RIVER FM.: CLAY/SHALE, with fine sand, highly weathered, light grey.
20				SP	SANDSTONE, med. to fine grained, mod. well cemented, light grey.
25		Installed #8-12 size filter pack from 21.5 to 39.0 ft.			
30		Placed .050-in. slot /W #8-12 filter prepacked screen from 27.0 to 37.0 feet.			Note: Grain size changing to fine, mod. hard, and dark grey.
35					
40		Placed blank sump from 37.0 to 39.0 ft.		CL	SHALE, silty, soft, dark grey.
45		Cave-in fill from 39.0 to 40.0 ft.			TD AT 40 FEET.
50					

GROUNDWATER

DEPTH	HOUR	DATE
9.0		3-5-93
8.9		4/19/93

JOB NO. RVT01 DATE 03/05/93
 SURFACE ELEVATION 4943.90
 TOP OF FILTER PACK 9.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 24.0 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD
 LOCATION N 24893.74 E 24934.93
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 24.0 feet.		SC	ALLUVIUM: CLAYEY SAND, fine, low to medium plasticity.
5		No grout seal installed. Placed steel protective casing to 3 feet. Placed bentonite chip seal from 0.0 to 9.0 feet.		GW	SAND, GRAVEL AND COBBLES, with boulders to 18 inches, well graded, grey.
10		Installed #8-12 size filter pack from 9.0 to 24.0 ft.			
15		Placed .050-in. slot /W #8-12 filter prepacked screen from 12 to 22 feet.		SM	SILTY SAND, some clayey seams, very fine, grey.
20		Two foot sump placed below screen at 22 feet.			
25				CL	WIND RIVER FM.: SHALE, mod. hard, dark grey. TD AT 24 FEET.
30		Well located in north center edge of mill area.			
35					
40					
45					
50					

GROUNDWATER		
DEPTH	HOUR	DATE
6.1		

JEG TAC TEAM

JOB NO. RVTO1 DATE 03/17/93
 SURFACE ELEVATION 4932.10
 TOP OF FILTER PACK 8.00
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION ALLUVIUM

TOTAL DEPTH 17.0 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD
 LOCATION N 23228.03 E 28349.91
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 14.0 feet. No grout seal installed because of flush cap req'd by H'way Dept. Placed bentonite chip seal from surface to 8.0 feet. Installed #8-12 size filter pack from 8.0 to 14.0 ft.		SC	ALLUVIUM: CLAYEY SAND, with occasional fine gravel, medium to low plasticity, brown.
5				GW	SAND, GRAVEL AND COBBLES, with boulders to 12 inch dia., gray.
10					
15		Placed .050-in. slot /W #8-12 filter prepacked screen from 9.0 to 14.0 feet. No sump installed.		CL	WIND RIVER FM.: CLAY/SHALE, with sand, highly weathered, medium to low plasticity, greyish brown. TD AT 17 FEET.
20					
25		Well located in Highway R/W and requires flush mounted surface casing and cap. Special rubber seal intalled in well top and non-standard locking cap.			
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
6.6		

JOB NO. RYTOJ DATE 03/17/93
 SURFACE ELEVATION 4932.50
 TOP OF FILTER PACK _____
 WELL CASING TYPE 2.0-IN. SCHED. 40 PVC
 COMPLETION WIND RIVER FM. (UPR. CONFINED)

TOTAL DEPTH 40.0 feet
 RIG TYPE MAYHEW 1500
 BORING TYPE ROTARY MUD TO AIR
 LOCATION N 23222.16 E 28339.43
 DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 2.0-in. PVC well to 40.0 feet.		SC	ALLUVIUM: CLAYEY SAND, with fine gravel, low plasticity, brown.
5		Installed grout seal to 5.0 ft. Placed steel protective casing to 13.0 feet. Placed bentonite chip seal from 5.0 to 21.0 feet.		GW	
10					SANDY GRAVEL AND COBBLES, with boulders to 18 inches dia., grey.
15					
20		Well located in H'way R/W, and requires casing to be flush with surface. A special rubber casing seal and locking cap were used.		CL	WIND RIVER FM.: CLAY/SHALE, with sand, medium to low plasticity, greyish brown.
25		Installed #8-12 size filter pack from 21.0 to 40.0 ft.		SP	
30		Placed .050-in. slot /W #8-12 filter prepacked screen from 28.0 to 38.0 feet.			SANDSTONE, medium to very fine, mod. soft, grey.
35					
40		Placed blank sump from 38.0 to 40.0 ft.		CL	SHALE, mod. soft, dark grey.
45					TD AT 40 FEET.
50					

GROUNDWATER		
DEPTH	HOUR	DATE
6.8		4/19/93

WELL COMPLETION RECORD

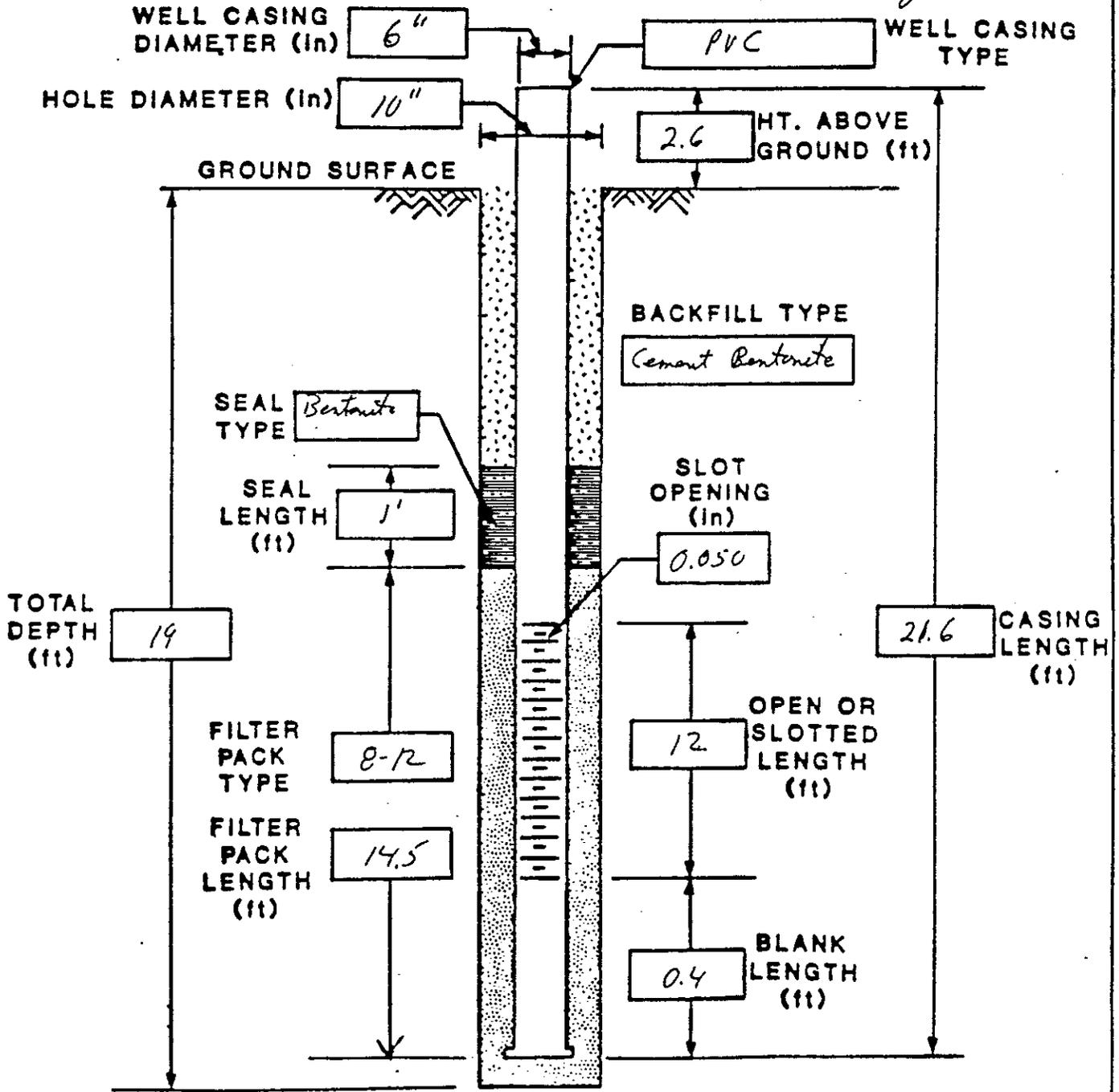
SITE ID: RVT 01 LOCATION ID: 0737 DATE INSTALLED: 7-21-95

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. (IN²/FT.) _____

FORMATION OF COMPLETION: Surface Aquifer

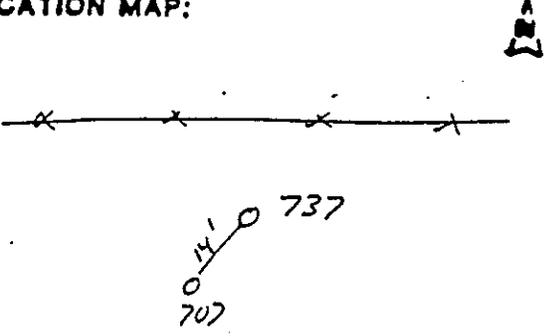
FIELD REP.: D Tarbox DRILLER: Inyang Mitter Engineers



COMMENTS: _____

BOREHOLE LOG (SOIL)

LOCATION MAP:



SITE ID: RVT 01 LOCATION ID: 0737
 SITE COORDINATES (ft.):
 N _____ E _____
 GROUND ELEVATION (ft. MSL): _____
 DRILLING METHOD: Hollow Stem Auger
 DRILLING CONTR.: Inberg Miller Engineers
 DATE STARTED: 7-21-95
 DATE COMPLETED: 7-21-95
 FIELD REP.: D. Tarbox

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (ft.)
7-21-95	0900	3.5

LOCATION DESCRIPTION
 SITE CONDITION

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	Unified UCCS	VISUAL CLASSIFICATION
0								MC/SL	Clay Silt and fine Sand Dark yellowish brown (10 yr 4/2)
3.5								SW/6W	Coarse to fine Sand, and coarse to fine Gravel Frequent cobbles
5								SP	Coarse to fine Sand, little fine Gravel Pale brown (5 yr 5/2)
10								SW/6W	Coarse to fine Gravel and coarse to fine Sand. Frequent cobbles pale brown (5 yr 5/2) Hard siltstone. Light olive gray (5 yr 5/2)
15									End of hole at 19.3
16									
19									
19.3									

COMMENTS:

SAMPLE TYPE
 A - Auger cuttings
 S - 2" O.D. 1.38" I.D. drive sample
 U - 3" O.D. 2.42" I.D. tube sample
 T - 3" O.D. threaded Shelby tube



WELL COMPLETION RECORD

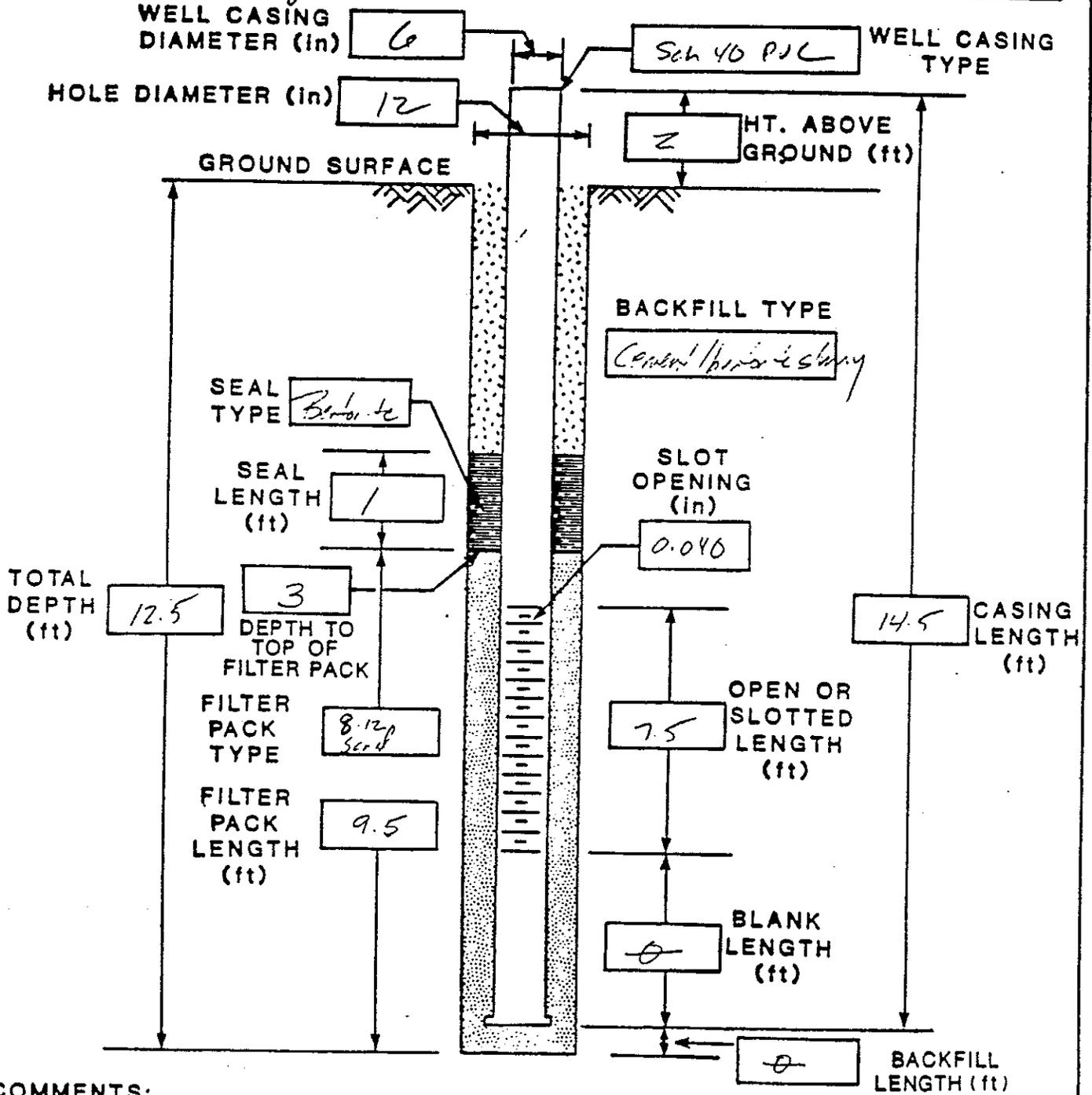
SITE ID: ROT 01 LOCATION ID: 730 DATE INSTALLED: 7-19-95

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. (IN²/FT.) 0.040 slot 1/4" spacing, 6" screen (sch 40)

FORMATION OF COMPLETION: Alluvium

FIELD REP.: D. Holmgren DRILLER: INBREG-MILLER



COMMENTS: _____



JACOBS ENGINEERING GROUP INC.
ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

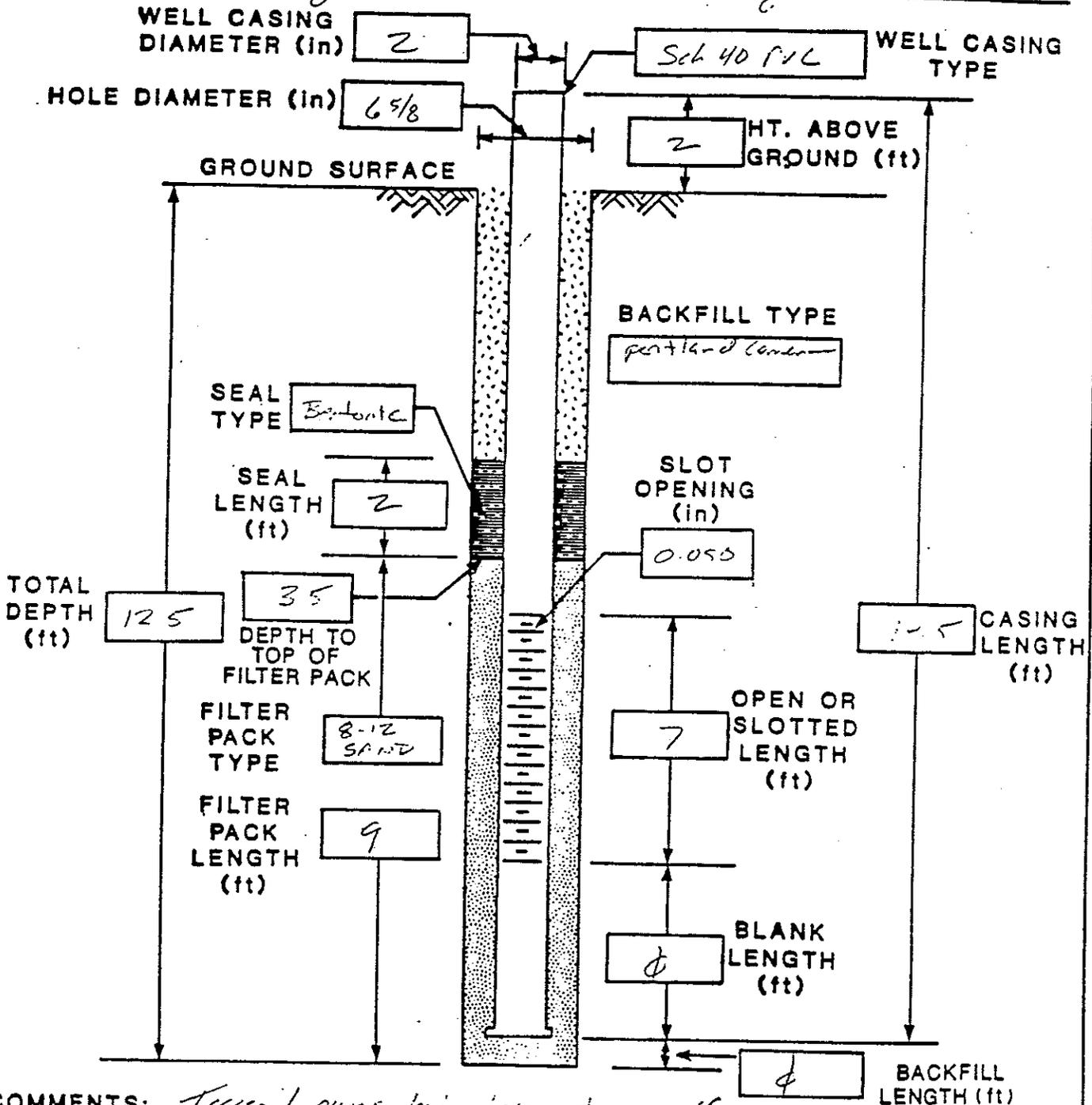
SITE ID: RVT-01 LOCATION ID: 780 DATE INSTALLED: 7-25-95

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. (IN²/FT.) 0.050 slot 1/4" opening

FORMATION OF COMPLETION: Alluvium

FIELD REP.: O. Helmgust DRILLER: Inherg. Miller



COMMENTS: Travel pump for observation well



WELL COMPLETION RECORD

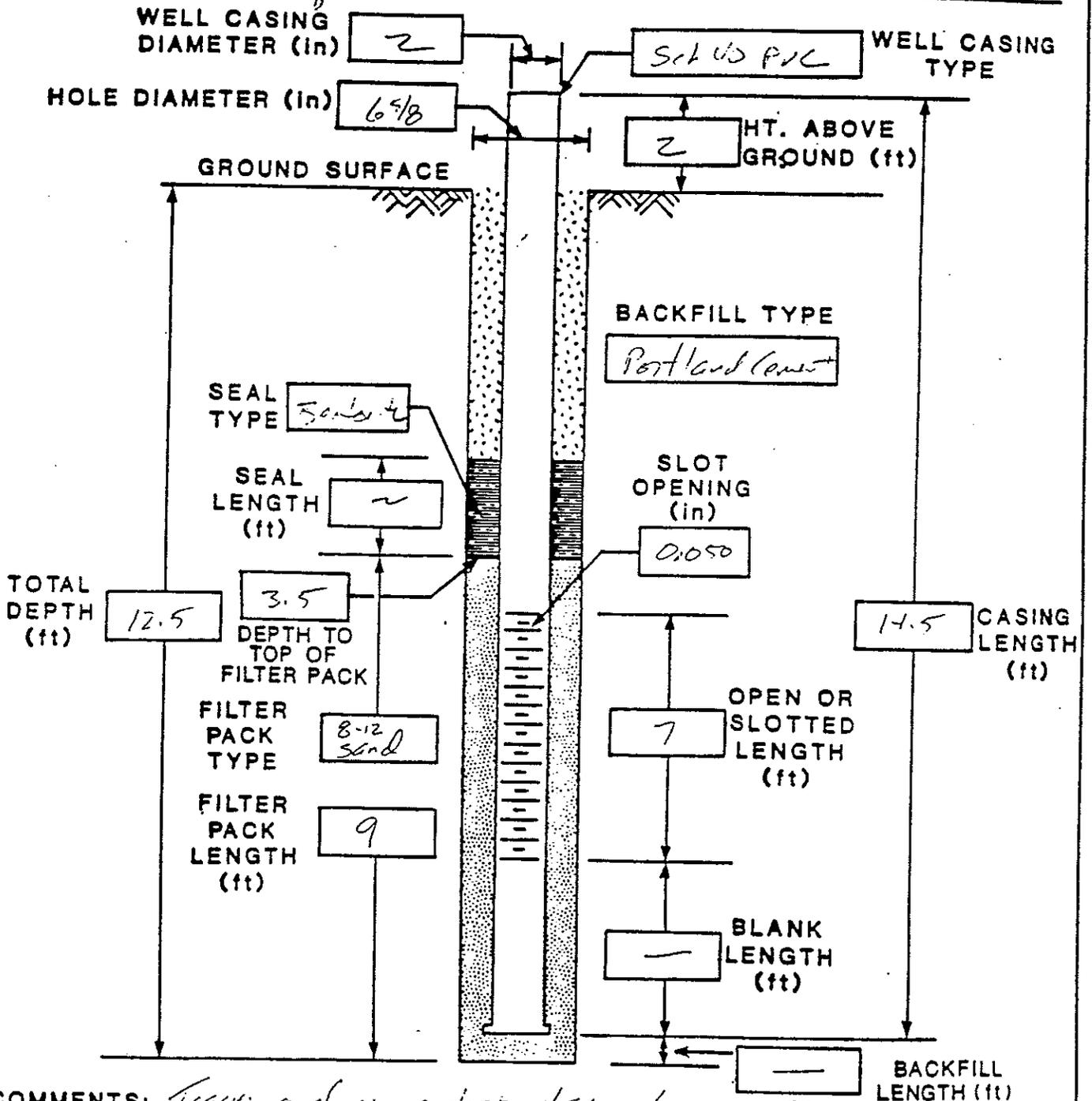
SITE ID: RVT-01 LOCATION ID: 781 DATE INSTALLED: 7-22-85

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. (IN²/FT.) 3050 sq ft 1 1/2" spacing

FORMATION OF COMPLETION: Alluvium

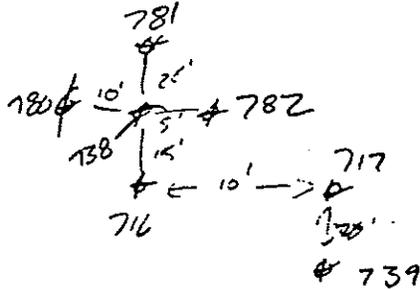
FIELD REP.: O. Holmquist DRILLER: INBROS - ALBUQUERQUE



COMMENTS: Gravel and pump test of this well

BOREHOLE LOG (SOIL)

LOCATION MAP:



SITE ID: RVT 01 LOCATION ID: 781
 SITE COORDINATES (ft.):
 N _____ E _____
 GROUND ELEVATION (ft. MSL): _____
 DRILLING METHOD: 2.5" HSA
 DRILLING CONTR.: INBERG MILLER
 DATE STARTED: 7-22-95
 DATE COMPLETED: 7-22-95
 FIELD REP.: D. [unclear]

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION (unclear)
 SITE CONDITION Field gassy

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
0					SM				Silty sand LP, light brown & grey. (S/R 612)
5					SM				Silty sand, yellow and brown. (S/R 612)
10									
15									
20									
25									
30									
35									
40									
45									
50									
55									
60									
65									
70									
75									
80									
85									
90									
95									
100									

COMMENTS:

SAMPLE TYPE
 A - Auger cuttings
 S - 3" O.D. 1.38" I.D. drive sample
 U - 3" O.D. 2.42" I.D. tube sample
 T - 3" O.D. thin-walled Shelby tube



WELL COMPLETION RECORD

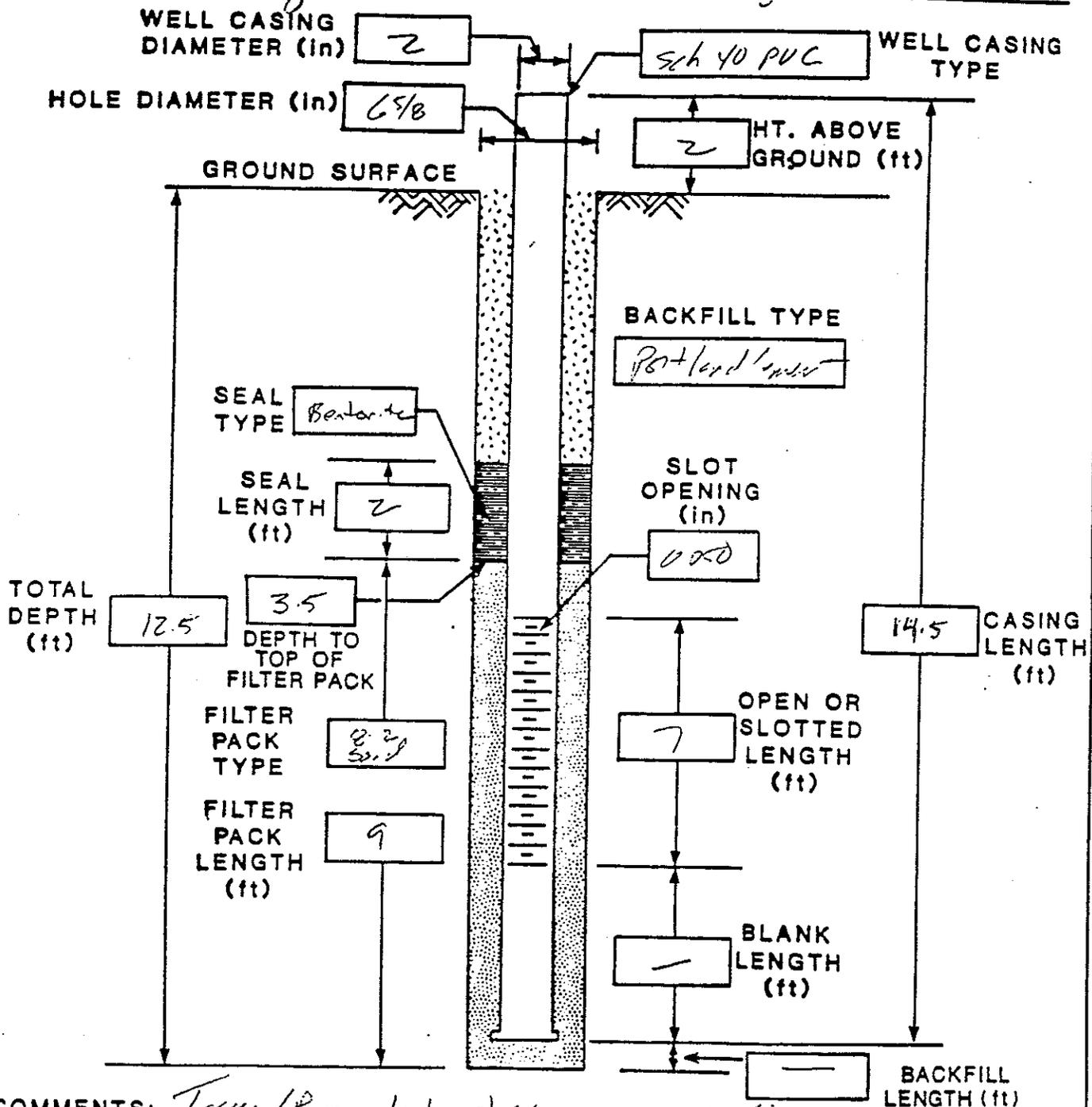
SITE ID: RVT-01 LOCATION ID: 782 DATE INSTALLED: 7-24-95

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. (IN²/FT.) 0.050 sq ft 1/2" spacing

FORMATION OF COMPLETION: Alluvium

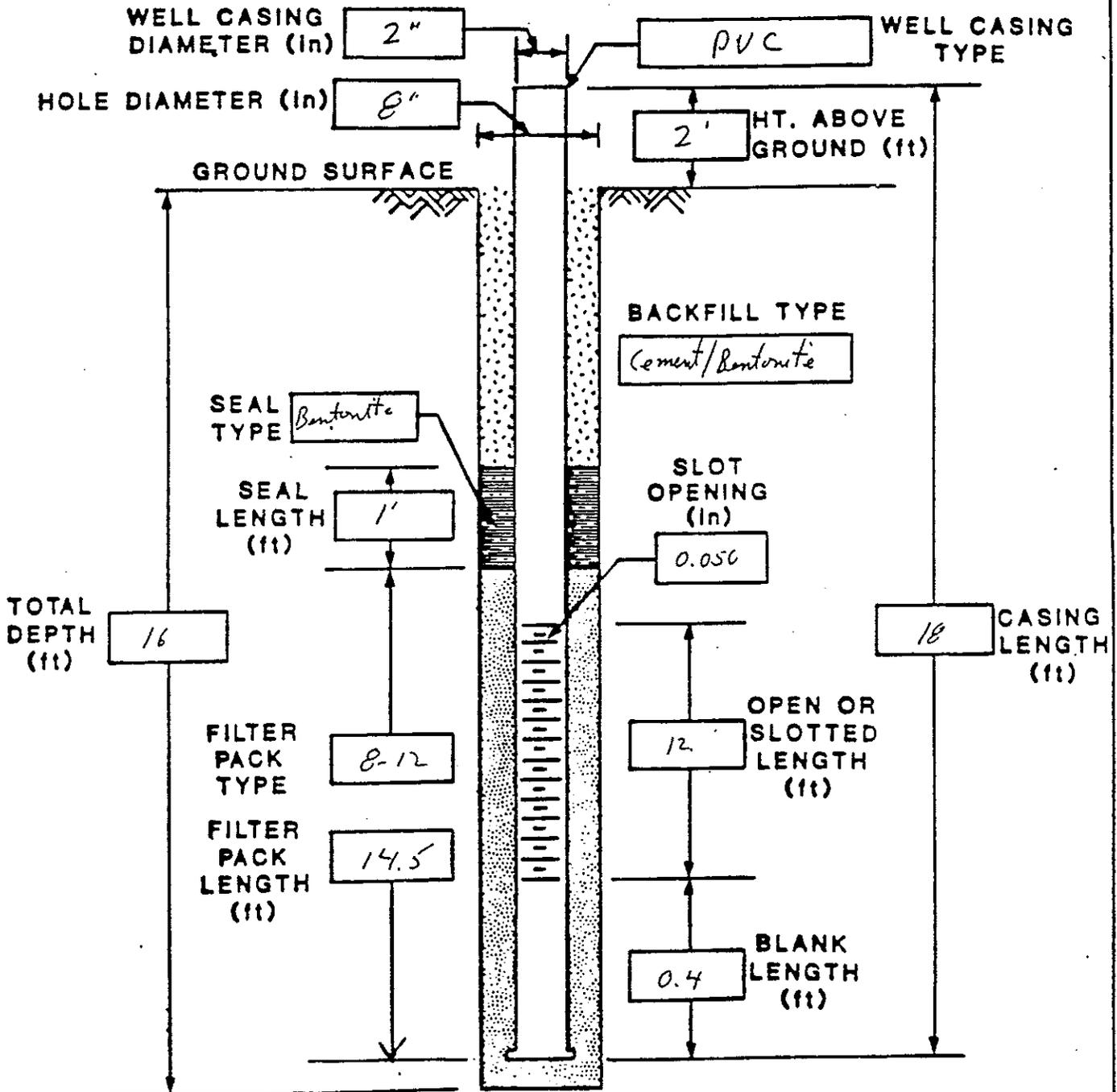
FIELD REP.: D. Holmquist DRILLER: T. Berg Miller



COMMENTS: Trace Pump Test Results - see notes

WELL COMPLETION RECORD

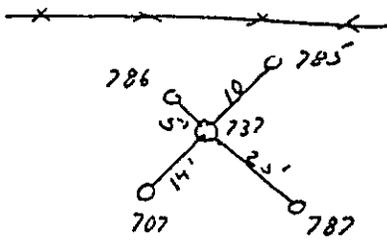
SITE ID: RV701 LOCATION ID: 0785 DATE INSTALLED: 7-25-95
 APPROX. SITE COORDINATES: (FT.) N _____ E _____
 OPEN AREA PER LINEAL FT. (IN²/FT.) _____
 FORMATION OF COMPLETION: Surficial Aquifer
 FIELD REP.: _____ DRILLER: _____



COMMENTS: _____

BOREHOLE LOG (SOIL)

LOCATION MAP:



SITE ID: RVT01 LOCATION ID: 785
 SITE COORDINATES (ft.):
 N _____ E _____
 GROUND ELEVATION (ft. MSL): _____
 DRILLING METHOD: Hollow Stem Auger
 DRILLING CONTR.: Inberg Miller
 DATE STARTED: July 25, 1995
 DATE COMPLETED: July 25, 1995
 FIELD REP.: D. Jabber

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (ft.)
7/25/95	1400	4.83

LOCATION DESCRIPTION
 SITE CONDITION

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	D	BLOWS PER 6 in.	N VALUE	Unified USCS	VISUAL CLASSIFICATION
0									
3.0					A			MC/SC	Clayey SILT and fine Sand. Occasional Gravel Pale brown (5 yr 5/2)
5					A			SW/GW	(course) to fine Sand and coarse to fine Gravel. Frequent cobbles Grayish brown (5 yr 3/2)
10					A			SP	Uniform medium SAND, occasional little coarse to fine gravel occasional cobbles Grayish brown (5 yr 3/2)
15									End of Hole at 16'
20									

COMMENTS:

SAMPLE TYPE
 A - Auger cuttings
 S - 2" O.D. 1.38" I.D. drive sample
 U - 3" O.D. 2.42" I.D. tube sample
 T - 3" O.D. thermostated Shelby tube

WELL COMPLETION RECORD

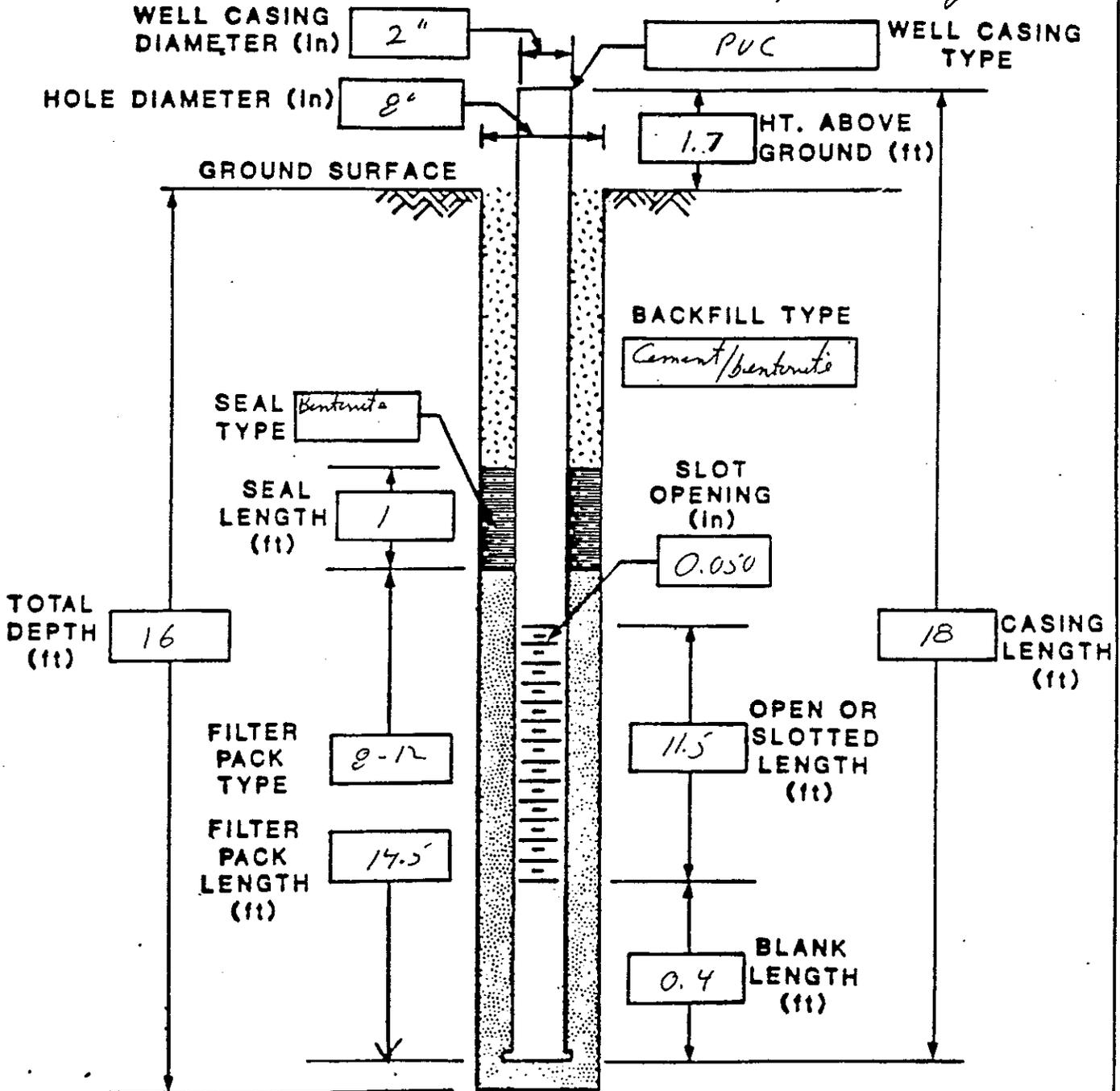
SITE ID: RVT LOCATION ID: 0786 DATE INSTALLED: 7-25-95

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. (IN²/FT.) _____

FORMATION OF COMPLETION: Surficial Aquifer

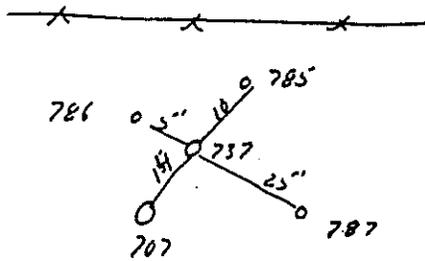
FIELD REP.: D Tarbox DRILLER: Inberg-Miller Engineers



COMMENTS: _____

BOREHOLE LOG (SOIL)

LOCATION MAP:



SITE ID: KVT LOCATION ID: 786
 SITE COORDINATES (ft.):
 N _____ E _____
 GROUND ELEVATION (ft. MSL): _____
 DRILLING METHOD: Hollow Stem Auger
 DRILLING CONTR.: Tuboro Miller Engineers
 DATE STARTED: 7/25/95
 DATE COMPLETED: 7/28/95
 FIELD REP.: D. J. J. J.

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (ft.)
7-25-95	1600	4' ±

LOCATION DESCRIPTION
 SITE CONDITION

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	Unified UCCS	VISUAL CLASSIFICATION
0					A			MC/SC	Clayey SILT, with little fine sand Occasional gravel and cobbles Pale brown (5 YR 5/2)
3.2					A			SW/6W	Course to fine Sand and course to fine Gravel, trace <u>trace</u> silt Frequent cobbles. Pale brown (5 YR 5/2)
9.5					A			SP	Course to fine SAND, little fine Gravel Pale brown (5 YR 5/2)
14.5								SW/6W	Course to fine Sand and course to fine Gravel. Freq. cobbles Pale brown (5 YR 5/2)
17									end of hole at 17'

COMMENTS:

SAMPLE TYPE
 A - Auger cuttings
 S - 2" O.D. 1.38" I.D. drive sample
 U - 2" O.D. 2.42" I.D. tube sample
 T - 3" O.D. thin-walled Shelby tube

WELL COMPLETION RECORD

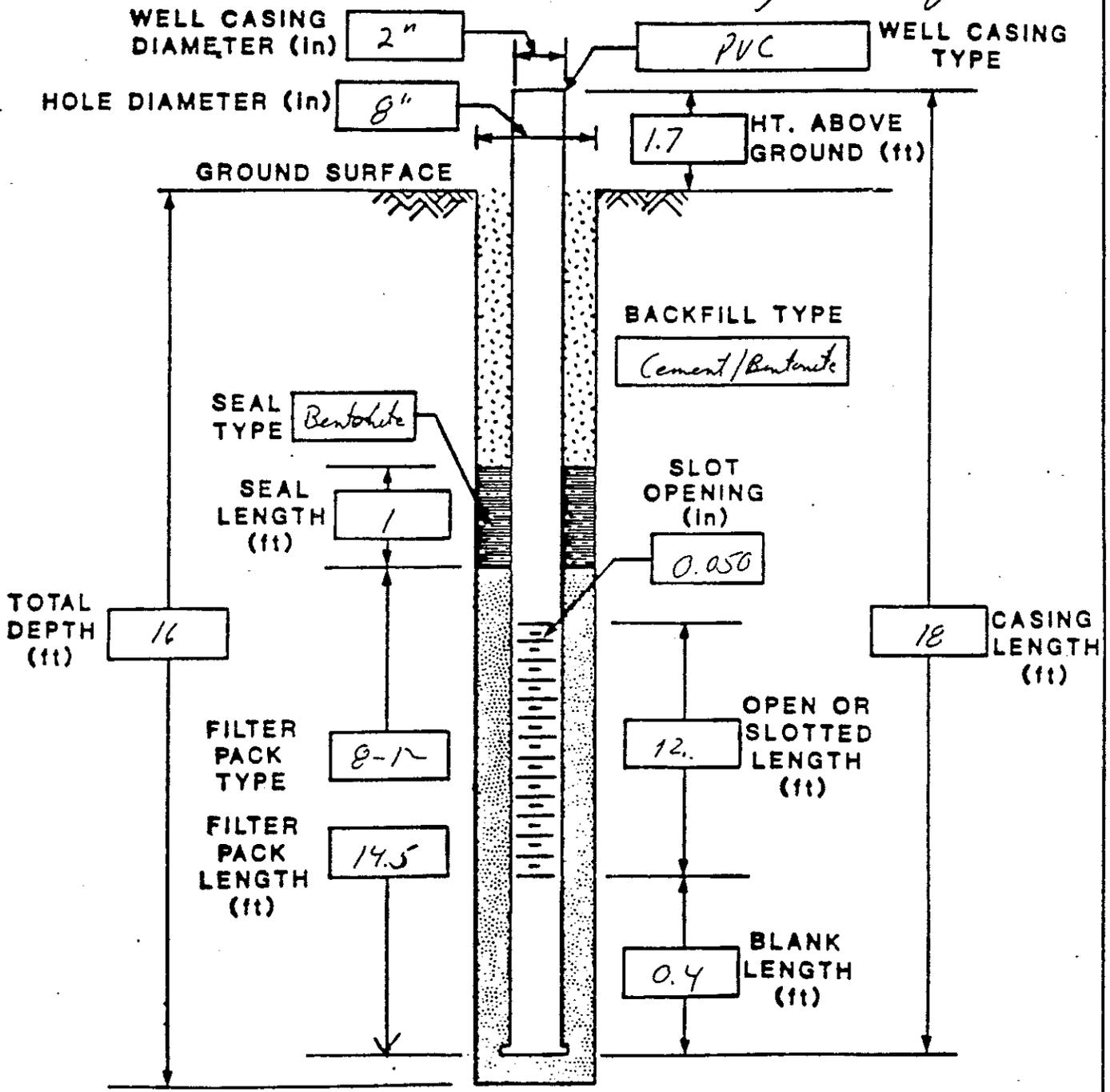
SITE ID: RVT 01 LOCATION ID: 0787 DATE INSTALLED: 7-26-95

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. (IN²/FT.) _____

FORMATION OF COMPLETION: Surficial Aquifer

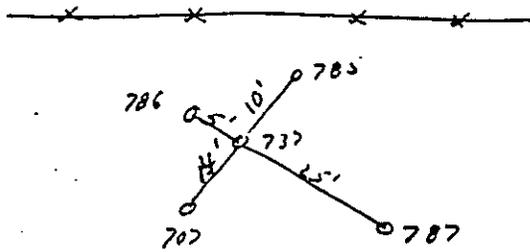
FIELD REP.: D Varbo DRILLER: Inberg Miller Engineers



COMMENTS: _____

BOREHOLE LOG (SOIL)

LOCATION MAP:



SITE ID: AVT 01 LOCATION ID: 787
 SITE COORDINATES (11.):
 N E
 GROUND ELEVATION (ft. MSL):
 DRILLING METHOD: Hollow Stem Auger
 DRILLING CONTR.: Inberg Miller Engineers
 DATE STARTED: 7-26-95
 DATE COMPLETED: 7-26-95
 FIELD REP.: D Tarbox

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (ft.)
7-26-95	0940 ^{hr}	4' 5"

**LOCATION DESCRIPTION
SITE CONDITION**

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	Unified USCS	VISUAL CLASSIFICATION
3.0				A				MC/SC	Clayey silt, little fine sand, occasional cobbles. Pale brown (5 yr 5/4)
5.0				A				GW/SW	Coarse to fine Gravel and coarse ⁽⁺⁾ to fine Sand, trace ⁽⁻⁾ silt. Frequent cobbles. Pale brown (5 yr 5/2)
16.0				A				CH	CLAY trace silt. Plastic. Medium bluish gray (5 B 5/4)
16.5									End of hole 16.5

COMMENTS: _____

SAMPLE TYPE
 A - Auger cuttings
 S - 3" O.D. 1.38" I.D. drive sample
 U - 3" O.D. 2.42" I.D. tube sample
 T - 3" O.D. threaded Shelby tube