

Waines M10-200

Log# 36092

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Well Summary Information

OAK RIDGE NATIONAL LABORATORY

NW⁴NW⁴ Sec 14

18N 29E

Prepared By: Bob Schlosser Date: 7/11-13/90 Page: 1 OF 1

Hole No.: MW12L Casing Elev.: 3930.20' Ground Elev.: 3930.46' Location: Group II upgradient

Total Depth: 85.0' Number of Completions: 1 Rig Type: Schramm Roto-drill T-685

Auger Size: 8" O.D. Sample Type: 3"x5" Continuous, 2.5"x2" Calif. Method" SS

Project: NAS Fallon Data Verified By: _____ Date: _____

DEPTH (FEET)	SAMPLE TYPE	SAMPLE INTV	WELL CONSTRUCTION	LITHOLOGY	DESCRIPTION
0					
2					
4					
6					
8					
10					
12	CS				
14					
16					CL CLAY: silty in part, blocky, micaceous, limonite staining on partings, damp.
18	CS				SP SAND: very fine grained, with clay interbedded.
20					CL CLAYEY SILT: with 4-5cm very fine sand at 21', strong limonite staining CARSON RIVER-LAHONTON LAKE contact, not well developed.
22	CS				
24					
26					CL CLAYEY SILT: light olive gray, (5y6/2) with interbedded very fine grained sand.
28	CS				
30					SP SAND: fine to medium grained, limonite stained.
32	CS				CL CLAY: dark greenish gray, fine sand, mottled blk
34					CL CLAY: black, plastic, tight, mottled with clay greenish gray. 4cm gypsum bed at 34.5'.
36					SP SAND: dark greenish gray (5G4/1), medium to coarse grained, micaceous, sugangular to rounded mostly clear quartz, some dark accessory mins., grading to SW SAND. medium to coarse grained (mL-CU) scattered vcl, very angular.
38	CS				
40					
42	CS				
44					SP SAND: as above.
46					
48					PROBLEMS WITH AUGER, RUN IN HOLE WITH CENTER BIT TO CLEAN OUT HOLE. CENTER BIT HUNG UP IN AUGER, TRIP OUT OF HOLE, REPLACE AUGER, CLEAN OUT HOLE WITH CENTER BIT. NO SAMPLES FROM 45'-55'.
50					
52					
54					
56	CS				SP SAND: very dark gray (5Y4/1), medium grained, micaceous.
58					
60					CL CLAY: varigated, thin beds of very dark gray green and black.
62	CS				
64					SP SAND: very dark gray (5Y5/1), fine grained.
66					CL CLAY: black as above, sticky, fish bones.
68	CS				
70					SP SAND: very fine grained (10YR3/), predominantly fine grained, rounded, thin beds of evaporites on bedding planes, appear varved.
72	CS				
74					NO SAMPLE 72'-75' auger cuttings appear to be SP SAND as above.
76					
78	CS				CL CLAY: black, silty in part, sandy in part
80					SW SAND: very dark gray, medium to coarse grained (mL-cl), loosely consolidated.
82	CS				
84					CL CLAY: black, thinly bedded, very silty
86					SLOTTED PVC SCREEN (0.010") 74'-84'
88					BENTONITE PELLETS (1/4") 67'-69'
90					CEMENT BENTONITE GROUT (6/1) 1'-67'
					FRAC SAND (8/12) 69'-85'

RECEIVED
 AUG 12 1991
 STATE ENGINEER'S OFFICE

*Dual Completion
 DLN = 772 (Walsco)

WELL CONSTRUCTION MATERIAL AND PROCEDURAL CHECKLIST

OAK RIDGE NATIONAL LABORATORY
 CHEMICAL ASSESMENTS TEAM
 GRAND JUNCTION OFFICE
 P.O. BOX 2567
 GRAND JUNCTION, CO 81502
 (303) 248-6209
 (FTS) 326-6209

PROJECT: NAS Fallon		SITE: Group 2		WELL: MW12L		DATE: 07/13/90		
DRILLING				WELL COMPLETION				
Method: Hollow Stem Auger				Borehole Diameter: 8" O.D.				
Contractor: Welsco Corporation				Casing Depth: 80.0'				
Rig Type: Schramm Roto-Drill T-685				Total Depth: 85.0'				
Driller: Jim Biffle				Screened Interval: 70.0'-80.0'				
QA/QC: R.M.Schlosser				Water Level (Pre-level):				
Was equipment decontaminated prior to drilling: YES				Water Level (Post-level):				
Comments: Augers and rig deconned prior to drilling.				QA/QC: R.M. Schlosser				
				Was casing decontaminated prior to setting: YES				
				Was grout mixed to specs.: NO				
MATERIALS				Comments: Pre-cleaned casing removed from plastic, steam cleaned and returned to plastic prior to installation.				
	Size		Amount					
Sand	100#	8/12	4		WELL DEVELOPMENT			
Portland Cement	Type 2 100#		10					
Powdered Bentonite	100#	1		Developed by: S.R. Sturm Date: / /				
Bentonite Pellets	1/4"	50#		Method: Air lift pump				
Casing	2" DIA.	1-5' & 7-10'		Volume of Water Purged: Unknown				
Type	PVC			Water Quality	Temp:N/A	Cond:N/A	pH:N/A	
Well Cap	2" DIA.	1		WELL TESTS				
Well Points	2" DIA.	1		Bail Test by: S.R. Sturm, P.M. Karl		Date: 07/16/90		
Screen Length	10'	1		Pump Test by: None done		Date: / /		
Screen Size	.010"			Other:				
Screen Type	PVC SLOTTED			Comments: Hydraulic conductivity .55-.82 FPD				
CAT/REP: R.M. Schlosser								
Comments: 3 bags sackrete used for surface. Completed through hollow stems.								

Well Summary Information



OAK RIDGE NATIONAL LABORATORY

Prepared By: Bob Schlosser Date: 6/26/90 Page: 1 OF 1
 Hole No.: MW12U Casing Elev.: 3930.25' Ground Elev.: 3930.46' Location: Group II upgradient
 Total Depth: 20.0' Number of Completions: 1 Rig Type: Schramm Roto-drill T-685
 Auger Size: 8" O.D. Sample Type: 3"x5' Continuous, 2.5"x2" Calif. Method" SS
 Project: NAS Fallon Data Verified By: _____ Date: _____

DEPTH (FEET)	SAMPLE TYPE	SAMPLE INTV	WELL CONSTRUCTION	LITHOLOGY	DESCRIPTION
0					
2	CS				SW SAND: light brownish gray, medium to coarse grained (mU-vcL), subangular to subrounded, some pebbles to 8mm. CONCRETE, 0'-2'
4					SW SAND: color as above, fine to medium grained (fL-mU) some coarse, subangular to subrounded, abundant feldspars and dark accessory minerals.
6	SP				
8	SP				SW SAND: grayish brown (10YR5/2) medium to coarse grained (mL-vcU), with scattered 2-3mm pebbles, becoming fine to medium grained with depth.
10					CL CLAYEY SILT: light brown, sandy in part to very sandy.
12	CS				SP SAND: grayish brown, interbedded with clayey silt as above.
14					
16					CL CLAYEY SILT: brown (10YR5/3), mottled dark green gray, some sand hwith heavy limonite staining.
18	CS				CL CLAY: pale yellow (5Y8/3), very hard, greasy, blocky. CL CLAY: olive gray (5Y4/2), blocky.
20					SLOTTED SCREEN (0.010") 5.0'-15.0' FRAC SAND (8/12) 4.0'-20.0' BENTONITE PELLETS (1/4") 2.0'-4.0', HYDRATED WITH POTABLE WATER (2 GALLONS)

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PROJECT: NAS Fallon		SITE: 1		WELL: MW12U		DATE: 06/26/90		
DRILLING				WELL COMPLETION				
Method: Hollow Stem Auger				Borehole Diameter: 8" O.D.				
Contractor: Welsco Corporation				Casing Depth: 15.0'				
Rig Type: Schramm Roto-Drill T-685				Total Depth: 20.0'				
Driller: Jim Biffle				Screened Interval: 5.0'-15.0'				
QA/QC: R.M.Schlosser				Water Level (Pre-level): 6.5'				
Was equipment decontaminated prior to drilling: YES				Water Level (Post-level):				
Comments: Augers deconned prior to drilling.				QA/QC: R.M. Schlosser				
				Was casing decontaminated prior to setting: YES				
				Was grout mixed to specs.: NO				
MATERIALS				Comments: Pre-cleaned casing removed from plastic, steam cleaned and returned to plastic prior to installation.				
	Size	Amount						
Sand	100# 8/12	6						
Portland Cement	Type 2 100#	1						
Powdered Bentonite				WELL DEVELOPMENT				
Bentonite Pellets	1/4"	50#		Developed by: S.R. Sturm Date: 07/12/90				
Casing	2" DIA.	1-5'		Method: Air lift pump				
Type	PVC			Volume of Water Purged: 150 gals.				
Well Cap	2" DIA.	1		Water Quality		Temp:N/A	Cond:N/A	pH:N/A
Well Points	2" DIA.	1		WELL TESTS				
Screen Length	10'	1		Bail Test by: S.R. Sturm, P.M. Kearn Date: 07/16/90				
Screen Size	.010"			Pump Test by: None done Date: / /				
Screen Type	PVC SLOTTED			Other:				
CAT/REP: R.M. Schlosser				Comments: Hydraulic Conductivity .62-.64 FPD.				
Comments: 3 bags sackrete used for surface. Bentonite hydrated with 5 gallons potable water.								