

river M/0-200

Log # 85187

ornl

OAK RIDGE NATIONAL LABORATORY

Well Summary Information

NEW/4/NEW/4/2015

Prepared By: Bob Schlosser

Date:

Page: 1 OF 1

Hole No.: MW06L Casing Elev.: 3935.45' Ground Elev.: 3935.58' Location: Site 2 Upgradient

Total Depth: 87.0' Number of Completions: 1 Rig Type: Schramm Roto-drill Y-685

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

County: Churchill

Project: NAS Fallon

Data Verified By:

Date:

DEPTH (FEET)	SAMPLE TYPE	SAMPLE INTV	WELL CONSTRUCTION	LITHOLOGY	DESCRIPTION
0					SP SAND: dark grayish brown (10YR4/2)
2	CS				CL CLAYEY SILT: micaceous, with fine sand.
4					CL CLAY: dark brown, still some limonite stn.
6	SP				SP SAND: dark grayish brown (10YR4/2), fine grained, silty at 8.0'
8	SP				SW SAND: very dark grayish brown, fine to coarse grained (fU-cl), micaceous, loosely consolidated, well graded.
10	SP				
12					SP SAND: dark brown (10YR3/3), fine grained (fU) sugangular, micaceous, abundant feldspar.
14	CS				
16	CS				SP SAND: as above, becoming medium grained
18					SW SAND: fine to coarse grained (fU-cl), well graded. LOST 18'-20'
20					CL CLAYEY SILT: with 4-5cm very fine sand at 23' strong limonite staining CARSON RIVER-LAHONTON LAKE contact.
22	CS				
24					CL CLAY: greenish gray, silty in part, hard, dry, evaporites along bedding planes.
26					CL CLAY: olive, with evaporites as above, blocky, more clay downward.
28	CS				
30					CL CLAY: olive (5y4/2), very plastic, dense
32	CS				
34					CL CLAY: color as above, oolids from 31'-32.5' on bedding planes, some very fine sand on partings from 33'-34.5', very calcareous, clay becoming very stiff at 34.5'.
36	CS				
40					CL CLAY: as above, silty at 39'.
42	CS				SW SAND: very tight, hard
44					CL CLAYEY SILT: black (7.5RN/2), soft, micaceous, GYPSUM at 43.0', light green, banded 2-3mm.
46					SP SAND: dark greenish gray (5GY4/1), fine grained strong sulfur smell, poorly graded, at 48' light olive bands 15mm wide, every 8-10cm.
48	CS				
50					SP SAND: as above very silty.
52	CS				
54					CL CLAYEY SILT: black (7.5YR2/), dense, slightly damp, micaceous, smell of H ₂ S, more clay content with depth, at 58' clay is very dark gray (7.5YR3/)
56	CS				
58					CL CLAYEY SILT: damp, micaceous.
60					CL CLAYEY SILT: becoming dark gray.
62	CS				
64					SW SAND: medium-coarse grained (mU-cl) well graded
66	CS				CL SANDY CLAY: micaceous, Fish vertebra at 66.5'
68					
70	CS				
72					SP SAND: black, fine grained, silty in part.
74	CS				
76					SW SAND: medium to coarse grained (mU-cl) well graded to subangular, saturated.
78					NO SAMPLE 73'-75', LOST IN HOLE SAND HEAVED IN AUGER 13' AUGER TO 85'
80					SP SAND: black, fine grained.
82					SLOTTED PVC SCREEN (0.010"), 74'-84'
84					NATIVE SAND 84'-87', 63'-67'
86	SP				BENTONITE PELLETS (1/4") 60'-63'
88					CEMENT BENTONITE GROUT (6/1) 2'-60'
90					FRAC SAND (8/12) 67'-84'

Basin #101

RECEIVED
AUG 12 1991

STATE ENGINEER'S OFFICE

* Dual Completion

DLN = 772 (Welsco)

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: 1			WELL: MW06L			DATE: 06/20/90 thru 06/21/90				
DRILLING						WELL COMPLETION							
Method: Hollow Stem Auger						Borehole Diameter: 8" O.D.							
Contractor: Welsco Corporation						Casing Depth: 84.0'							
Rig Type: Schramm Roto-Drill T-685						Total Depth: 87.0'							
Driller: Jim Biffle						Screened Interval: 74.0'-84.0'							
QA/QC: R. M. Schlosser						Water Level (Pre-level): 7.5'							
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.: YES							
MATERIALS						Comments: Precleaned casing and screen removed from plastic, deconned with steam cleaner and put back in plastic prior to installation.							
		Size		Amount									
Sand		100# 8/12		7									
Portland Cement		Type 2 100#		14									
Powdered Bentonite		100#		2									
Bentonite Pellets		1/4"		50#									
Casing		2" DIA.		7-10', 2-5'									
Type		PVC											
Well Cap		2" DIA.		1									
Well Points		2" DIA.		1									
Screen Length		10'		1									
Screen Size		.010"											
Screen Type		PVC SLOTTED											
CAT/REP: R.M. Schlosser						WELL DEVELOPMENT							
Comments: Hole grouted to within 1' of surface with 6/1 Neat Cement.						Developed by: S.R. Sturm							
						Date: 06/25/90							
						Method: Air lift pump							
						Volume of Water Purged: 60 gallons							
						Water Quality		Temp:N/A		Cond:N/A		pH:N/A	
						WELL TESTS							
						Bail Test by: S.R. Sturm, R.M. Schlosser							
						Date: 07/15/90							
						Pump Test by: None done							
						Date: / /							
						Other:							
						Comments: Hydraulic conductivity .13-.17 FPD.							

STATE ENGINEERING

01 JUN 15 1990