river M/O-200

Log# 85502

ornl OAK RIDGE NATIONAL LABORATORY

Well Summary Information

NW¼NW¼ Sec 15 18N 29E

Prepared By: Bob Schlosser Date: 6/20, 21/90 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 T-685 County: Churchill

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

Project: NAS Fallon Data Verified By: Date:

Basin #1/4

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, loosly consolidated, well graded.
10	SP				SP SAND: dark brown (10YR3/3), fine grained (fU) sugangular, micaceous, abundant feldspar.
12					
14	CS				SP SAND: as above, becoming medium grained
16	CS				SW SAND: fine to coarse grained (fU-cL), well graded. LOST 18'-20'
18					CL CLAYEY SILT: with 4-5cm very fine sand at 23' strong limonite staining CARSON RIVER-LAHONTON LAKE contact.
20					CL CLAY: greenish gray, silty in part, hard, dry, evaporites along bedding planes.
22	CS				CL CLAY: olive, with evaporites as above, blocky, more clay downward.
24					
26					CL CLAY: olive (5y4/2), very plastic, dense
28	CS				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'.
30					
32	CS				CL CLAY: as above, silty at 39'.
34					SW SAND: very tight, hard
36					
38	CS				CL CLAYEY SILT: black (7.5RN/2), soft, micaceous, GYPSUM at 43.0', light green, banded 2-3mm.
40					
42	CS				SP SAND: dark greenish gray (5GY4/1), fine grained strong sulfur smell, poorly graded, at 48' light olive bands 15mm wide, every 8-10cm.
44					
46					
48	CS				SP SAND: as above very silty.
50					
52	CS				CL CLAYEY SILT: black (7.5YRN2/, dense, slightly damp, micaceous, smell of H2S, more clay content with depth, at 58' clay is very dark gray (7.5YRN3/)
54					
56					
58	CS				CL CLAYEY SILT: damp, micaceous.
60					CL CLAYEY SILT: becoming dark gray.
62	CS				SW SAND: medium-coarse grained (mU-cL) well graded
64					CL SANDY CLAY: micaceous, Fish vertebra at 66.5'
66					
68	CS				SP SAND: black, fine grained, silty in part.
70					
72	CS				SW SAND: medium to coarse grained (mU-cL) rounded to subangular, saturated.
74					NO SAMPLE 73'-75', LOST IN HOLE
76					SAND HEAVED IN AUGER 13'
78					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'

RECEIVED
AUG 1 2 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

Method: Hollow Stem Auger

Contractor: Welsco Corporation

Rig Type: Schramm Roto-Drill T-685

Driller: Jim Biffle

QA/QC: R. M. Schlosser

Was equipment decontaminated prior to drilling: YES

Comments: Augers and rig deconned prior to drilling.

MATERIALS

	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

Comments: Hole grouted to within 1' of surface with 6/1 Neat Cement.

WELL COMPLETION

Borehole Diameter: 8" O.D.

Casing Depth: 84.0'

Total Depth: 87.0'

Screened Interval: 74.0'-84.0'

Water Level (Pre-level): 7.5'

Water Level (Post-level):

QA/QC: R.M. Schlosser

Was casing decontaminated prior to setting: YES

Was grout mixed to specs.: YES

Comments: Precleaned casing and screen removed from plastic, deconed with steam cleaner and put back in plastic prior to installation.

WELL DEVELOPMENT

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.

UNC17188(9/90)