

GL04802

WELL CONSTRUCTION SUMMARY

LOCATION or COORDS: (C-11-10)-1966 ELEVATION: GROUND LEVEL _____
TOP OF CASING _____

DRILLING SUMMARY:

TOTAL DEPTH 178'
BOREHOLE DIAMETER 12 1/4" (0'-178')

DRILLER Dean Mitchell

RIG CP-RT-1800
BIT(S) tricone

DRILLING FLUID bentonite, Poly Core L

SURFACE CASING _____

WELL DESIGN:

BASIS: GEOLOGIC LOG _____ GEOPHYSICAL LOG _____

CASING STRING(S): C=CASING S=SCREEN

<u>0'</u>	<u>110'</u>	<u>C1</u>	_____
<u>110'</u>	<u>178'</u>	<u>S1</u>	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

CASING: C1 2" TD casing

C2 _____

C3 _____

C4 _____

SCREEN: S1 2" TD slotted pipe

S2 _____

S3 _____

S4 _____

CENTRALIZERS _____

FILTER MATERIAL pea gravel (0'-174')
non graded gravel pack (174'-178')

CEMENT _____

OTHER _____

CONSTRUCTION TIME LOG:

TASK	START		FINISH	
	DATE	TIME	DATE	TIME
DRILLING:	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
GEOPHYS. LOGGING:	_____	_____	_____	_____
CASING:	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
FILTER PLACEMENT:	_____	_____	_____	_____
CEMENTING:	_____	_____	_____	_____
DEVELOPMENT:	_____	_____	_____	_____
OTHER:	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

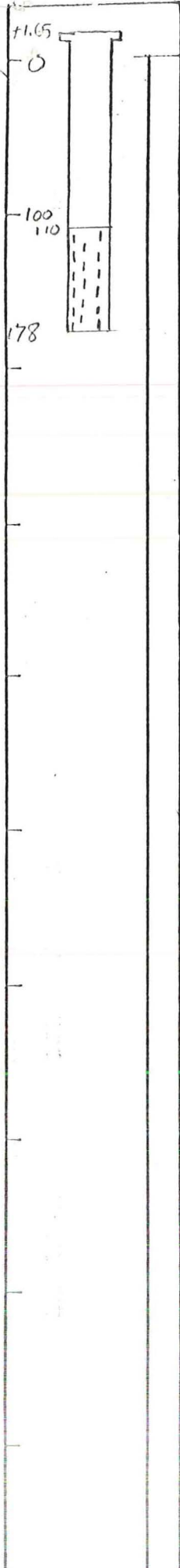
WELL DEVELOPMENT

COMMENTS:

Dry Well

LOCATION Dugway Valley
PERSONNEL _____

PROJECT _____



LOG OF BOREHOLE

BOREHOLE DV-S-02

PAGE 1 OF 3

LOC. or COORDS. <u>DUGWAY VALLEY UTAH</u> <u>T11S R10 W-56.19 BB/NNW 1/4, T9 NW 1/4</u>	DRILLER <u>DEAN MITCHELL</u> <u>ADDITIONAL DRILLING & DEV. PART.</u>	START DATE <u>7-28-80</u>	FINISH DATE <u>7-29-80</u>
GROUND ELEV. _____	RIG <u>CHICAGO PNEUMATIC BT-1800</u>	TIME <u>19.10</u>	<u>19.50</u>
TOTAL DEPTH <u>178 ft.</u>	BIT(S) <u>1 1/4" Mill TOOTH - 1 1/4" BURR TYPE</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
BOREHOLE DIAM. <u>1 1/4" (0-178')</u>	FLUID <u>Poly Corel of BENTONITE</u>	HOW LEFT <u>2 1/2" CASED & GRAVEL PACKED, OBS. WELL.</u>	

LOGGED BY MKV, ALB. Re-logged by -M. Home R. LAZO
 LOCATION DUGWAY VALLEY UTAH
 PROJECT NY. PROJECT

DEPTH	PENE RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM. BOL.	DESCRIPTION and COMMENTS
00 ft.				60'		SANDY SILTY GRAVEL: (0-15') () pinkish gray (w. 7.5 YR 7/2), light gray (d: 5 YR 7/0); silt & cl 10%; cs to f sd 15% (carb 75% Az 25%), gul 75%, up to 18 mm. (carb 75%, Az 20%, Ply 5%); ps. sd: subang to rnd; gul: ang to subrnd; structureless, n.p.; not stky; non consol; mod Hcl rxn; Ang chips of Ply & carb (Bldr's?)
10 ft.	12 min			-10'		SANDY GRAVEL: (10-20') () pinkish gray (w. 7.5 YR 7/2); light gray (d: 7.5 YR 7/0); cs to med sd 25% (carb. 80%, Az 20%), gul 75% up to 20 mm. (carb 60%, Az 20%, tuff 20%); ps; sd: subang to rnd; gul: ang to subrnd; structureless, n.p.; not stky; no consol; mod Hcl rxn. Ang chips of tuff prob. from tuff layer.
20 ft.	8 min 65 sec			20'		SILTY SAND w/ LITTLE GRAVEL: (20-30') () pinkish gray (w. 7.5 YR 7/2) light gray (d: 7.5 YR 7/0); silt & cl 10%; cs to f sd 85% (carb. 90%, Az 10%); gul 5% up to 11 mm. (carb. 95%, Az 5%); ps; sd: subang to rnd; gul: subang; structureless, n.p.; not stky; no consol; mod Hcl rxn. (Bldr chips)
30 ft.	7 min 35 sec			30'		SANDY GRAVEL: (30-40') () pinkish gray (w. 7.5 YR 7/2), light gray (d: 7.5 YR 7/0); cs to med sd 25% (carb. 75%, Az 25%), gul 75% up to 14 mm (carb. 90%, Az 5%, chert 5%); ps; sd: subang to rnd; gul: ang to subrnd; structureless, n.p.; not stky; no consol; mod Hcl rxn (Bldr chips tr)
40 ft.	9 min 50 sec			40'		SAND: (40-50') () light brown (w. 7.5 YR 6/4), pinkish gray (d: 7.5 YR 7/2); med to f sd 95% (carb. 50%, Az 50%); m.s.; sd: subang to rnd; structureless, n.p.; not stky; no consol; mod Hcl rxn (Bldr chips tr)
50 ft.	10 min 31 sec			50'		SAND: (50-60') () light brown (w. 7.5 YR 6/4), pinkish gray (d: 7.5 YR 7/2); cl & silt 5%; cs to f sd 95% (carb. 50%, Az 25%, Az 20%, chert 5%); m.s.; sd: subang to rnd; structureless, n.p.; not stky; no consol; wk Hcl rxn. (tr. cs pul.)
60 ft.	10 min 31 sec			60'		SAND: (60-80') () light brown (w. 7.5 YR 6/4), pinkish gray (d: 7.5 YR 7/2); silt & clay 2.5%; med to f sd. 95% (carb. 50%, Az 30%, Az 10%, chert 10%); m.s.; sd: subang to rnd; structureless, n.p.; not stky; no consol; wk Hcl rxn.
70 ft.	9 min 50 sec			70'		SAND: (70-80') () same as above. Except med. sd more freq.

LOG OF BOREHOLE

BOREHOLE DU-S-Ø-2

PAGE 2 OF 3

LOC. or COORDS. DUGWAY VALLEY UTAH
T115 R10 W-SEC 19 BE/NW¼, TO NW¼
 GROUND ELEV. _____
 TOTAL DEPTH 178 ft.
 BOREHOLE DIAM. 1 1/4" (Ø-178") ID

DRILLER D. MITCHELL
NORTH WEST AIR DRILLING & DEVELOPMENT
 RIG CHICAGO NEUMATIC RT-1800
 BIT(S) 1 1/4" MILL TOOTH-1 1/4" BITUMEN FILLED
 FLUID Poly CORGEL BENTONITE

START DATE <u>7-28-80</u>	FINISH DATE <u>7-29-80</u>
TIME <u>19 10</u>	<u>19 50</u>
GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
HOW LEFT <u>2 1/2 CASED GRAVEL PACKED OBS. WELL.</u>	

DEPTH	PENE. RATE	CIRC. RET. LOGS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
80' ft	23 in 4 sec			SAND		SAND (80-90') (), light brown (w. 7.5 YR 6 1/2); pinkish gray (d. 7.5 YR 7 1/2); cs to f. sd 98% (carb. 25%, Qtz 50%, Az 20%, chert 5%); ps, sd: one to subrnd; structureless, np, not stky; no consol; wk Hcl rxn. (Øvl trs)
90' ft	17 in 8 sec			SANDY GRAVEL		SANDY GRAVEL (90-110') (), Brown (w. 7.5 YR 5 1/2) light gray (d. 7.5 YR 7 1/2), cs to med sd. 10% (carb. 40%, Qtz 25%, Az 20%, chert 5%), Øvl 90%, up to 10 mm (carb. 50%, Qtz 40%, chert 10%); ps, sd: subang to subrnd; Øvl: one to subang; structureless, np, not stky, no consol, wk Hcl rxn (Bldr chips tr.)
100' ft	50 in			GRAVEL		GRAVEL (100-110') SAME AS ABOVE; BUT NO SAND AND GRAVEL up to 15 mm. (tr. vol. frag).
110' ft	74 in			SANDY GRAVEL		SANDY GRAVEL: (110-120') (), Brown (w. 7.5 YR 5 1/2) light gray (d. 7.5 YR 7 1/2), cs to med sd 25% (carb. 40%, Qtz 25%, Az 20%, chert 5%); Øvl: 75% up to 10 mm (carb. 60%, Qtz 25%, chert 10%, vlc frag 5%); ps, sd: subang to subrnd; Øvl: one to subrnd; structureless, np; not stky, no consol; wk Hcl rxn (Bldr chips tr.)
120' ft	54 in 32 sec			SAND		SAND (120-130') (); Brown (w. 7.5 YR 5 1/2); light gray (d. 7.5 YR 7 1/2), cs to f. sd. 100% (carb. 25%, Qtz 50%, Az 20%, chert 5%); ps, sd: one to subrnd; structureless, np, not stky; no consol; wk Hcl rxn.
120' ft	10 in			SAND		SAND (130-160') (), Brown (w. 7.5 YR 5 1/2); light gray (d. 7.5 YR 7 1/2); cs to med sd. 100% (carb. 25%, Qtz 70%, Az 5%); m.s. sd: one to subrnd; structureless, np, not stky, no consol; wk Hcl rxn.
140' ft	66 in 39 sec			SAND		SAND (140-150') SAME AS ABOVE.
150' ft	10 in			SAND		SAND (150-160') SAME AS ABOVE, EXCEPT Bldr chips tr.
160' ft						

LOGGED BY MKU, MLB

MAX-PROJECT

LOG OF BOREHOLE

BOREHOLE DU-S-7-2

PAGE 3 OF 3

LOC. or COORDS. <u>DUGWAY VALLEY UTAH</u> <u>T11S R10W S1019.2E/11N4-MN4</u> GROUND ELEV. _____ TOTAL DEPTH <u>178 ft.</u> BOREHOLE DIAM. <u>12 1/4" (0 TO 178') T.D.</u>	DRILLER <u>D. MITCHELL</u> <u>NORTH WESTH AIR DRILLING & DEVELOPMENT.</u> RIG <u>CHICAGO NEWARK RT-1800</u> BIT(S) <u>12 1/4 MILL TOOTH 12 1/4 HUNTON TRI-CONE.</u> FLUID <u>Poly CORE1 & BENTONITE.</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">START</td> <td style="text-align: center;">FINISH</td> </tr> <tr> <td>DATE <u>7-28-80</u></td> <td><u>7-29-80</u></td> </tr> <tr> <td>TIME <u>19.10</u></td> <td><u>19.50</u></td> </tr> </table> GEOPHYS. LOG <u>Y</u> YES <u>NO</u> HOW LEFT <u>2 1/2 Cased</u> <u>Gravel packed obs well.</u>	START	FINISH	DATE <u>7-28-80</u>	<u>7-29-80</u>	TIME <u>19.10</u>	<u>19.50</u>
START	FINISH							
DATE <u>7-28-80</u>	<u>7-29-80</u>							
TIME <u>19.10</u>	<u>19.50</u>							

DEPTH	PENE RATE	CIRC RET. LOG	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
-160 ft	180mm			160' Bedrock Quartzite		BEDROCK: QUARTZITE (160-170') () PINK (w. 7.5 YR 8/4) pinkish white (d. 7.5 YR 8/2); AND chips w/ SOME carb & vol. frags
-170 ft	375mm			170' Bedrock Quartzite		BEDROCK: QUARTZITE (170-180') () SAME AS ABOVE w/ no carb & volc. frags.
-180 ft				180' T.D.		T.D.

LOGGED BY MEY, MLE

MAY - COLLECT