

LOG OF BOREHOLE

BOREHOLE GN-IT-6

PAGE 1 OF 13

LOC. or COORDS. 72N-R57E - Sec 15 6d
GARDEN VALLEY NEVADA
 GROUND ELEV. _____
 TOTAL DEPTH 1065 ft.
 BOREHOLE DIAM. 12.3"

DRILLER WRIGHT DRILL CO.
 Drilling: _____
MIKE HARRIS
 RIG Failing - 2500
 BIT(S) TRICONE
 FLUID BENTONITE.

START DATE	9-6-80	FINISH DATE	9-14-80
TIME	0435		1519
GEOPHYS. LOG	<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO
HOW LEFT	<u>UNRESTORED.</u>		

LOCATION GARDEN Valley 72N-R57E - Sec 15 6d.
 LOGGED BY K. Knipsch, S.S. Coe - N Gemmill
G. Clont, M. Hume.

PROJECT INTERMEDIATE Damper - 1020CAM
HX - Project FY - 80

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM BOL	DESCRIPTION and COMMENTS
00 ft				SAND-GRAVEL		SAND & GRAVEL: yellowish brown (D) (10 YR 5/4); COARSE SAND (25%), MEDIUM SAND (20%), FINE SAND (5%); COARSE GRAVEL UP TO 5 CM. (25%); FINE GRAVEL (15%); VOLCANIC FRAGMENTS (30%); QUARTZ (20%); FELDSPAR (30%); CARBONATES (10%); POORLY SORTED; SUBANGULAR TO SUBROUNDED; STRUCTURELESS; MODERATE ACID REACTION; OTHER DATA NOT APPLICABLE (0-10 ft).
10 ft				SAND-GRAVEL		SAND & GRAVEL: yellowish brown (D) (10 YR 5/4); COARSE SAND (25%), MEDIUM SAND (20%), FINE SAND (5%); COARSE GRAVEL UP TO 5 CM. (40%); FINE GRAVEL (15%); QUARTZ (40%); VOLCANICS (30%); FELDSPAR (30%); POORLY SORTED; SUBROUNDED; STRUCTURELESS; NO ACID REACTION EXCEPT FOR CARBONATES. OTHER DATA NOT APPLICABLE (10-20 ft).
20 ft				GRAVEL		GRAVEL w/ SAND: yellowish brown (D) (10 YR 5/4); COARSE GRAVEL UP TO 6 CM (30%); FINE GRAVEL (10%); COARSE SAND (15%); MEDIUM SAND (10%); FINE SAND (5%); QUARTZ (40%); VOLCANIC FRAGMENTS (30%); FELDSPAR (20%); POORLY SORTED; ROUNDNESS NOT STATED; STRUCTURELESS; MODERATE ACID REACTION; OTHER DATA NOT APPLICABLE (20-30 ft).
30 ft				SAND-GRAVEL		SAND & GRAVEL: yellowish brown (D) (10 YR 5/4); COARSE SAND (20%); MEDIUM SAND (20%); FINE SAND (10%); COARSE GRAVEL UP TO 9 mm (40%); FINE GRAVEL (10%); QUARTZ (40%); VOLCANICS (40%); FELDSPAR (20%); VERY POORLY SORTED; ROUNDNESS NOT STATED; STRUCTURELESS; NO ACID REACTION; OTHER DATA NOT APPLICABLE (30-40 ft).
40 ft				GRAVEL		GRAVEL - DARK GRAY (w) (10 YR 4/1); LITHIC FRAGMENTS (45%); QUARTZ (15%); FELDSPAR (15%); VOLCANIC FRAGMENTS (10%); CARBONATES (10%); M/M/CS (5%); POORLY SORTED; FINE GRAVEL w/ TRACE MEDIUM-COARSE SAND; ANGLULAR TO SUBROUNDED; STRUCTURELESS; SLIGHT ACID REACTIONS; OTHER DATA NOT APPLICABLE (40-50 ft).
50 ft	7 min 47 sec			GRAVEL		GRAVEL - DARK GRAY (w) (10 YR 4/1); FINE GRAVEL w/ 10% MEDIUM-COARSE SAND; LITHIC FRAGMENTS (35%); QUARTZ (20%); FELDSPAR (15%); VOLCANIC FRAGMENTS (15%); CARBONATE (10%); M/M/CS (5%); POORLY SORTED; ANGLULAR TO SUBROUNDED (BOULDER CHIPS); STRUCTURELESS; SLIGHT ACID REACTION; OTHER DATA NOT APPLICABLE (50-60 ft).
60 ft	20 min 35 sec			GRAVEL		GRAVEL - DARK GRAY (w) (10 YR 4/1); FINE GRAVEL w/ CHIPS UP TO 12 mm; TRACE MEDIUM-COARSE SAND; LITHIC FRAGMENTS (40%); VOLCANICS (20%); FELDSPAR (15%); QUARTZ (15%); CARBONATE (5%); POORLY SORTED; ANGLULAR TO SUBROUNDED; STRUCTURELESS; NO ACID REACTION; OTHER DATA NOT APPLICABLE (60-70 ft).
70 ft				GRAVEL		GRAVEL - DARK GRAY (w) (10 YR 4/1); FINE GRAVEL w/ CHIPS UP TO 15 mm; TRACE MEDIUM-COARSE SAND; LITHIC FRAGMENTS (50%); VOLCANICS (20%); QUARTZ (15%); FELDSPAR (10%); CARBONATE (5%); POORLY SORTED; ANGLULAR TO SUBROUNDED (BOULDER CHIPS); STRUCTURELESS; NO ACID REACTION; OTHER DATA NOT APPLICABLE (70-80 ft).
80 ft	15 min 55 sec			GRAVEL		GRAVEL - DARK GRAY (w) (10 YR 4/1); FINE GRAVEL w/ CHIPS UP TO 15 mm; TRACE MEDIUM-COARSE SAND; LITHIC FRAGMENTS (50%); VOLCANICS (20%); QUARTZ (15%); FELDSPAR (10%); CARBONATE (5%); POORLY SORTED; ANGLULAR TO SUBROUNDED (BOULDER CHIPS); STRUCTURELESS; NO ACID REACTION; OTHER DATA NOT APPLICABLE (70-80 ft).

LOG OF BOREHOLE

LOC. or COORDS. T2N-R57E-Sec 15 6d.
GARDEN VALLEY NEVADA

GROUND ELEV. _____

TOTAL DEPTH 1,065 ft

BOREHOLE DIAM. 12.3"

DRILLER WRIGHT Drill. Co.
Drilling

MIKE HARRIS

RIG FAILING 2500

BIT(S) TRICONE

FLUID BENTONITE

START DATE <u>9-6-80</u>	FINISH DATE <u>9-14-80</u>
TIME <u>0435</u>	<u>1519</u>
GEOPHYS. LOG <u>1</u> YES	
HOW LEFT <u>UNRESTORED</u>	

LOCATION GARDEN VALLEY T2N-R57E-Sec 15 6d.
LOGGED BY K. KIRCH - S. J. JOH. M. GEMMEL
G. GORDON M. HARRIS

PROJECT INTERMEDIATE QUANTIC DEPOSIT
AN PROJECT FY 80

DEPTH	PENE. RATE	CIRC. RET. LOG	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
80 ft	15 min 23 sec			GRAVEL & SAND	80'	GRAVEL & SAND - DARK GRAYISH BROWN (W) (10YR 4/2) FINE GRAVEL & MEDIUM - COARSE SAND, LITHIC FRAGMENTS (40%), QUARTZ (25%), FELDSPAR (15%) VOLCANICS (15%), CARBONATE (5%), POORLY SORTED, ANGULAR TO SUBANGULAR (BOULDER CHIPS), STRUCTURELESS, SLIGHT ACID REACTION - OTHER DATA NOT APPLICABLE. (80 - 90 ft).
90 ft	16 min 25 sec			GRAVEL	90'	GRAVEL - DARK GRAY (W) (10YR 4/1), FINE TO COARSE GRAVEL W/ CHIPS UP TO 10 mm (BOULDER CHIPS); VIRTUALLY 100% LITHIC FRAGMENTS OF WHICH APPROX. 40% ARE VOLCANICS, POORLY SORTED, ANGULAR TO SUBANGULAR; STRUCTURELESS; ACID REACTION NOT LIMITED; OTHER DATA NOT APPLICABLE. (90 - 100 ft)
100 ft	12 min			SAND WITH GRAVEL	100'	SAND W/ GRAVEL - DARK GRAYISH BROWN (W) (10YR 4/2); COARSE SAND (60%) MEDIUM SAND (15%), FINE GRAVEL UP TO 10 mm (25%), LITHIC FRAGMENTS (25%) VOLCANICS (30%), QUARTZ (25%), FELDSPAR (15%), CARBONATE (5%); POORLY SORTED, ANGULAR TO SUBANGULAR. STRUCTURELESS, NOT ACID REACTION; OTHER DATA NOT APPLICABLE. (100 - 110 ft).
110 ft	17 min 12 sec			SAND WITH GRAVEL	110'	SAND W/ GRAVEL SAME AS ABOVE (100 - 110 foot).
120 ft	18 min 52 sec			GRAVEL WITH SAND	120'	GRAVEL W/ SAND - DARK GRAYISH BROWN (W) (10YR 4/2), GRAVEL (75%), COARSE SAND (25%); LITHIC FRAGMENTS PREDOMINANTLY VOLCANICS; COARSE SAND IS (70%) VOLCANICS, QUARTZ (25%), CARBONATE (5%); POORLY SORTED, ANGULAR TO SUBANGULAR (BOULDER CHIPS), STRUCTURELESS; SLIGHT ACID REACTION; OTHER DATA NOT APPLICABLE. (120 - 130 ft)
132 ft	93 min			GRAVEL	132'	GRAVEL DARK GRAY (W) (10YR 4/1), GRAVEL (90%), COARSE SAND (10%), VOLCANIC & LITHIC FRAGMENTS (100%); POORLY SORTED; ANGULAR TO SUBANGULAR (CHIPS); STRUCTURELESS; NO REACTION TO HCL. OTHER DATA NOT APPLICABLE. (132 - 142' ft)
142 ft	26 min 15 sec			SAND	142'	SAND - DARK GRAYISH BROWN (W) (10YR 3/2), COARSE SAND (100%), VOLCANIC LITHIC FRAGMENTS (BROKEN CORNERS); OCCASIONAL THIN (21 FT) GY SEDMS; SORTING NOT STATED; STRUCTURELESS; NOT ACID REACTIVE; OTHER DATA NOT APPLICABLE (142 - 153 ft)
153 ft	39 min 43 sec			SAND	153'	SAND - DARK GRAYISH BROWN (W) (10YR 3/2), COARSE SAND (100%), 10% LITHIC FRAGMENTS (60%), QUARTZ / CORNERS (10%), CARBONATE (10%) (FINE ANGULAR ROCK FRAGMENT (TRACE BROKEN GRAVELS) STRUCTURELESS, NOT ACID REACTION; OTHER DATA NOT APPLICABLE. (153 - 160 ft)

LOG OF BOREHOLE

BOREHOLE GN-11-0

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LOCATION GARDEN VALLEY T2N-R57E-SEC. 16
 LOGGED BY E. KNIRCH - SS. 806 - N. GEMME II
 G. ROSE - N. HUNT
 PROJECT FV 90

LOC. or COORDS. <u>T-2N-R57E- Sec. 16d.</u> <u>GARDEN VALLEY NEVADA.</u> GROUND ELEV. _____ TOTAL DEPTH <u>1,065 ft</u> BOREHOLE DIAM. <u>12.3"</u>	DRILLER <u>WEIGHT DRILL CO.</u> <u>Drilling.</u> <u>MIKE HARRIS</u> RIG <u>FALLING 2500</u> BIT(S) <u>TRICONE</u> FLUID <u>BENTONITE</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">START DATE <u>9-6-80</u></td> <td style="width: 50%;">FINISH DATE <u>9-14-80</u></td> </tr> <tr> <td>TIME <u>0435</u></td> <td><u>1519</u></td> </tr> <tr> <td colspan="2">GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</td> </tr> <tr> <td colspan="2">HOW LEFT <u>UNRESTORED.</u></td> </tr> </table>	START DATE <u>9-6-80</u>	FINISH DATE <u>9-14-80</u>	TIME <u>0435</u>	<u>1519</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		HOW LEFT <u>UNRESTORED.</u>	
START DATE <u>9-6-80</u>	FINISH DATE <u>9-14-80</u>									
TIME <u>0435</u>	<u>1519</u>									
GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO										
HOW LEFT <u>UNRESTORED.</u>										

DEPTH	PENE. RATE	CIRC. RET.	AIRLIFT 0 (gpm)	MATERIAL	SYM. BOL	DESCRIPTION and COMMENTS
160 ft	118 min 31 sec.			SAND SOME WATER INFLOW (? gpm)		SAND - DARK GRAYISH BROWN (W) (10 YR-3/2), COARSE SAND (10%), VOLCANIC LITHIC FRAGMENTS (60%), QUARTZ/CHEKT (100%), CARBONATE (10%), LITHIC (10%), OCCASSIONAL THIN GRAVEL SEMIS (1) ANGULAR ROCK FRAGMENTS (TRACE BROKEN GRAVEL); STRUCTURELESS, NOT ACID REACTION, OTHER DATA NOT APPLICABLE - SOME WATER INFLOW. (160-173 ft).
170 ft	102 min 28 sec.				175 177	SAND - SAME AS ABOVE (160-173 foot).
180 ft	58 min 47 sec.				183	SAND - SAME AS ABOVE (173-177 foot).
190 ft	20 min 5 sec.			SAND	188 193	SAND - SAME AS ABOVE (177-183 foot).
200 ft	20 min 26 sec.			SAND	203	SAND - DARK BROWN (W), (10 YR 4/3), MEDIUM SAND (45%), COARSE SAND (35%), FINE SAND (20%), CARBONATE (60%), VOLCANIC FRAGMENTS (40%), MODERAT. BY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, NOT ACID REACTIO. OTHER DATA NOT APPLICABLE (193-203 ft).
210 ft	22 min 41 sec.			SAND	203 213	SAND - DARK BROWN (W) (10 YR-4/3), MEDIUM SAND (45%), COARSE (35%) & FINE SAND (20%); CARBONATE (60%), VOLCANIC FRAGMENTS (40%) MODERATELY SORTED, ANGULAR TO SUBANGULAR; STRUCTURELESS, NOT ACID REACTION. OTHER PROPERTIES NOT APPLICABLE. (203-213 ft)
220 ft	41 min 19 sec.			SAND	223	SAND - SAME AS ABOVE (203-213' foot)
230 ft	27 min 22 sec.			SAND	233	SAND - SAME AS ABOVE. (213-223 foot) EXCEPT 40% VOLCANIC FELSIC FRAGMENTS & TRACE FELDSPAR
240 ft				SAND		SAND W/ LITTLE GRAVEL, DARK BROWN (W) (10 YR 4/3); FINE GRAVEL UP TO 8 MM (5%), MEDIUM SAND (5%), COARSE SAND (30%), FINE SAND (15%); CARBONATE (60%); VOLCANIC FRAGMENTS (40%). MODERATELY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, NO-ACID REACTION. OTHER DATA NOT APPLICABLE (223 TO 242 ft)

LOG OF BOREHOLE

BOREHOLE GN-21-6

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LOC. or COORDS. T-2N-R57E-sec 15 6d.
GARDEN VALLEY NEVADA.
 GROUND ELEV. _____
 TOTAL DEPTH 1,065 ft
 BOREHOLE DIAM. 12.3"

DRILLER WRIGHT DRILL CO.
 Drilling: _____
MIKE HARRIS
 RIG FALLING 2500
 BIT(S) TRICONE
 FLUID BENTONITE

START	FINISH
DATE <u>7-6-80</u>	<u>7-14-80</u>
TIME <u>0435</u>	<u>1519</u>
GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
HOW LEFT <u>UNRESTORED.</u>	

LOCATION _____
 LOGGED BY K. KNICCH - SS Doc. H. GERRIEN
C. COOK - A. HUME

DEPTH	PENE. RATE	CIRC. ACT. LOGS	AIRLIFT O (gpm)	MATERIAL	SYM. BOL	DESCRIPTION and COMMENTS
240 ft	28 min 30 sec			SAND	243'	SAND w/ LITTLE GRAVEL; DARK BROWN (W) (10 YR 4/3); FINE GRAVEL UP TO 8MM (5%); MEDIUM SAND (50%); COARSE SAND (30%); FINE SAND (15%); CARBONATE (60%); VOLCANIC FRAGMENTS (40%); MODERATELY SORTED, ANGULAR TO SUBANGULAR; STRUCTURELESS; NOT ACID REACTIVE, OTHER DATA NOT APPLICABLE (243-253 ft)
250 ft	40 min 51 sec			SAND	253'	SAND - SAME AS ABOVE (243 - 253 foot)
260 ft	49 min 56 sec			SAND	263'	SAND SAME AS ABOVE (243-263 foot) EXCEPT, 70% CARBONATE & 30% VOLCANIC FRAGMENTS.
270 ft	75 min 35 sec			SAND	273'	SAND w/ VERY LITTLE GRAVEL - DARK BROWN (W), (10 YR 4/3); MEDIUM SAND (50%), COARSE SAND (20%), FINE SAND (15%); FINE GRAVEL UP TO 6MM (5%); CARBONATE (60%); VOLCANIC FRAGMENTS (40%) TRACE QUARTZ; MODERATELY SORTED, ANGULAR TO SUBANGULAR; STRUCTURELESS; NO REACTION TO HCL. OTHER DATA NOT APPLICABLE (273-283 ft)
280 ft	97 min 29 sec			SAND	283'	SAND SAME AS ABOVE (273-283 ft) EXCEPT: 70% CARBONATE & 30% VOLCANIC FRAGMENTS.
290 ft	51 min 18 sec			SAND	293'	SAND SAME AS ABOVE (283-293 foot)
300 ft	57 min 36 sec			SAND	303'	SAND w/ LITTLE of GRAVEL - DARK BROWN (W) (10 YR 4/3); MEDIUM SAND (50%), COARSE SAND (30%), FINE SAND (15%); FINE GRAVEL UP TO 6MM (5%); CARBONATE (60%); VOLCANIC FRAGMENTS (40%) TRACE QUARTZ; MODERATELY SORTED, ANGULAR TO SUBANGULAR; STRUCTURELESS; NOT ACID REACTIVE, OTHER DATA NOT APPLICABLE. (303-313 ft)
310 ft	60 min 30 sec			SAND	313'	SAME AS ABOVE (303 - 313 foot)
320 ft						

HY - PROJECT - FY - 80

LOG OF BOREHOLE

BOREHOLE GN-11-6

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LOC. or COORDS. T-2N-R57E-SEC.156d
FARM VALLEY NEVADA.
 GROUND ELEV. _____
 TOTAL DEPTH 1,065 ft.
 BOREHOLE DIAM. 12.3"

DRILLER WRIGHT Drill. Co.
Billings.
MIKE HARRIS
 RIG FALLING 2500
 BIT(S) TRICONE
 FLUID BENTONITE.

START FINISH
 DATE 9-6-80 9-14-80
 TIME 0435 1519
 GEOPHYS. LOG YES NO
 HOW LEFT _____
UNRESTORED.

LOGGED BY K. L. ... M. ...

M. PROJECT ...

DEPTH	PENE. RATE	CIRC. MET. LOSS	AIRLIFT (gpm)	MATERIAL	SYM. BOL	DESCRIPTION and COMMENTS
-320 ft	62 sec 52 sec			SAND	323'	SAND - DARK GRAYISH BROWN (W), (10YR 4/2), COARSE SAND (60%) MEDIUM SAND (30%), FINE GRAIN SAND (10%), LITHIC FRAGMENTS: VOLCANICS (70%), DOLOMITE/Ls (20%), QUARTZ (CHERT) (10%), MODERATELY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, NO ACID REACTION; OTHER DATA NOT APPLICABLE (323-333 ft).
-330 ft	57 min 30 sec			SAND	333'	SAND - DARK GRAYISH BROWN (W), (10YR 3 1/2), COARSE SAND (70%), MEDIUM SAND (20%), FINE SAND (10%), VOLCANIC FRAGMENTS (70%), CARBONATE (20%), QUARTZ (10%), TRACE FELDSPAR, OCCASIONALLY GRAVEL SEAM (2.1 ft) / COBBLE SEAM (CHERT); MODERATELY SORTED, ANGULAR SUBANGULAR, STRUCTURELESS, MOD. REACTION (333-343 ft).
-340 ft	79 min			GRAVEL	343'	GRAVEL - DARK GRAYISH BROWN (W) (10YR 4/2), GRAVELS (95%), MEDIUM-FINE SAND (5%), VOLCANIC FRAGMENTS (75%), QUARTZ/CHERT (10%), CARBONATE (10%), SORTING NOT STATED, SUBANGULAR TO SUB-ROUNDED, STRUCTURELESS, SLIGHT ACID REACTION. OTHER DATA NOT APPLICABLE (343-352 ft).
-350 ft	127 min 35 sec			GRAVEL	352'	GRAVEL - SAME AS ABOVE. (343-352 foot).
-360 ft	125 min 15 sec			SAND	363'	SAND - DARK BROWN (W), (10YR 4/3), MEDIUM SAND (80%), COARSE SAND (10%), FINE SAND (10%), CARBONATE (50%), VOLCANIC FRAGMENTS (50%), TRACE QUARTZ. MODERATELY TO WELL SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS. ACID REACTION NOT STATED; OTHER DATA NOT APPLICABLE (363-373 ft).
-370 ft	70 min 13 sec			SAND WITH GRAVEL	373'	SAND w/ GRAVEL - DARK BROWN (W) (10YR 4/3), MEDIUM SAND (50%), FINE (10%), COARSE SAND (10%), FINE GRAVEL UP TO 8mm (30%), CARBONATE (50%), VOLCANIC FRAGMENTS (50%), TRACE QUARTZ; MODERATELY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, ACID REACTION NOT STATED; OTHER DATA NOT APPLICABLE. (373-383 ft).
-380 ft	84 min 7 sec			SAND WITH GRAVEL	383'	SAND w/ GRAVEL - SAME AS ABOVE (373-383 foot), EXCEPT (10%) FINE GRAVEL UP TO 8mm & 70% MEDIUM SAND. (383-393 ft).
-390 ft					393'	
-400 ft	21 min 39 sec			SAND WITH GRAVEL		SAND w/ GRAVEL - SAME AS ABOVE (373-383 foot)

LOG OF BOREHOLE

BOREHOLE GN-11-6

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LOC. or COORDS. T-2N-R57E-SEC 156d.
GARDEN VALLEY NEVADA.
 GROUND ELEV. _____
 TOTAL DEPTH 1,065 ft.
 BOREHOLE DIAM. 12.3"

DRILLER WRIGHT DRILL CO.
Drilling.
MIKE HARRIS
 RIG FALLING 2500
 BIT(S) TRICONE
 FLUID BENTONITE

START FINISH
 DATE 9-6-80 9-14-80
 TIME 0435 1519
 GEOPHYS. LOG YES NO
 HOW LEFT UNRESTORED.

LOGGED BY K. KNIECH - SS 206 - M. GEMMEL
 S-C-0112 - M. HUNE

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYMBOL	DESCRIPTION and COMMENTS
400 ft	94 min 25 sec			SAND WITH GRAVEL	403'	SAND w/ GRAVEL - DARK BROWN (W) (10YR 4/3), MEDIUM SAND (50%), FINE (10%) COARSE SAND (10%), FINE GRAVEL UP TO 8MM (30%), OCCASIONAL GRAVEL/COBBLE SEAMS (2-1/4" THICK); CARBONATE (50%), VOLCANIC FRAGMENTS (50%), TRACE QUARTZ; MODERATELY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, ACID REACTION NOT STATED; OTHER DATA NOT APPLICABLE (403-413 ft).
410 ft	117 min			SAND	413'	SAND - DARK GRAYISH BROWN (W) (10YR 4/3), COARSE SAND (50%), MEDIUM FINE SAND (30%), SILT 10% (SOME CLAY BALLS); FINE GRAVEL UP TO 5-8MM (10%); VOLCANIC FRAGMENTS (20%), CHEST/DIOLITE (20%) CARBONATE (10%); MODERATELY SORTED, ANGULAR TO SUBANGULAR; STRUCTURELESS, NO ACID REACTION. OTHER DATA NOT APPLICABLE (413-423 ft).
420 ft	177 min 25 sec			SAND	423'	SAND w/ GRAVEL - DARK GRAYISH BROWN (W) (10YR 4/3), COARSE SAND (70%), MEDIUM SAND (10%), FINE SAND (10%), FINE GRAVEL UP TO 8MM (10%), TRACE CLAY; VOLCANIC FRAGMENTS (25%), CHEST (15%), CARBONATE (10%); MODERATELY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, SLIGHT ACID REACTION; OTHER DATA NOT APPLICABLE (423-433 ft).
430 ft	65 min 52 sec			SAND	433'	SAND w/ GRAVEL SAME AS ABOVE (423-433 ft)
440 ft	117 min			SAND	443'	SAND - DARK GRAYISH BROWN (W) (10YR 4/3), COARSE SAND (50%), MEDIUM SAND (40%), FINE SAND (10%), TRACE CLAY; VOLCANIC FRAGMENTS (20%) CHEST (20%), QUARTZ & CLAY PIECES; MODERATELY SORTED, ANGULAR TO SUBANGULAR; STRUCTURELESS; ACID REACTION NOT STATED; OTHER DATA NOT APPLICABLE (443-453 ft).
450 ft	19 min 15 sec			SAND	453'	SAND - SAME AS ABOVE (443-453 foot).
460 ft	18 min 15 sec			SAND	463'	SAND - SAME AS ABOVE (453-462 foot).
470 ft	26 min			SAND	473'	SAND w/ SOME GRAVEL - DARK GRAYISH BROWN (W) (10YR 4/3), COARSE SAND (40%), MEDIUM SAND (30%), FINE SAND (10%), GRAVEL UP TO 8MM (10%), TRACE CLAY VOLCANIC FRAGMENTS (20%), CHEST (20%); MODERATELY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, ACID REACTION NOT STATED; OTHER DATA NOT APPLICABLE (473-483 ft)
480 ft						

MR. ROBERT EV - 80

LOG OF BOREHOLE

LOC. or COORDS. T-2N-R57E-sec 15 6d.
GARDEN VALLEY NEVADA.
 GROUND ELEV. _____
 TOTAL DEPTH 1,065 ft.
 BOREHOLE DIAM. 12.3"

DRILLER WRIGHT Drill Co
 Drilling: _____
MIKE HARRIS
 RIG: FALLING 2500
 BIT(S) TRICONE
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START DATE	9-6-80	FINISH DATE	9-14-80
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GEOPHYS. LOG	/ YES		
HOW LEFT	UNRESTORED		

LOCATION GARDEN VALLEY T2N-R57E-SEC 15 6d.
 LOGGED BY K. KIRCH, G. DORSEY, M. GEMMEL
G. CRANK, M. HOME.

PROJECT INTERMEDIATE ABUSEC PROJECT
MX-PROJECT FY-80

DEPTH	PENE. RATE	CIRC. NET LOGS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
480 ft	31 min 35 sec			SAND	483'	SAND w/ SOME GRAVEL - DARK GRAYISH BROWN (W) (10 YR 4 1/2), COARSE SAND (40%), MEDIUM SAND (30%), FINE SAND (10%), GRAVEL UP TO 8mm (10%), TRACE CLAY VOLCANIC FRAGMENTS (8%), CHERT (20%), MODERATELY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE (483-493 ft).
490 ft	36 min 33 sec			SAND WITH GRAVEL	493'	SAND w/ GRAVEL - DARK GRAYISH BROWN (W) (10 YR 4 1/2), COARSE SAND (60%), FINE GRAVEL UP TO 5mm (20%), MEDIUM-FINE SAND (10%), VOLCANIC FRAGMENTS (7%), QUARTZ/CHERT (30%), MODERATELY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE (493-503 ft).
500 ft	22 min 22 sec			SAND	503'	SAND - DARK GRAYISH BROWN (W) (10 YR 4 1/2), COARSE SAND (70%), MEDIUM-FINE SAND (25%), GRAVEL UP TO 4mm (5%), VOLCANIC FRAGMENTS (1%), CHERT/QUARTZ (20%), LITHIC (5%), SORTING NOT STATED; ANGULAR TO SUBANGULAR, STRUCTURELESS; NO ACID REACTION, OTHER DATA NOT APPLICABLE (503-513 ft).
510 ft	25 min 21 sec			SAND WITH GRAVEL	513'	SAND w/ GRAVEL - DARK GRAYISH BROWN (W) (10 YR 4 1/2), COARSE SAND (60%), MEDIUM-FINE SAND (15%), GRAVEL FRAGMENTS UP TO 8mm (25%), TRACE VOLCANIC FRAGMENTS (20%), CHERT/QUARTZ (20%), LITHIC FRAGMENTS (1%), SORTING NOT STATED; ANGULAR TO SUBANGULAR, STRUCTURELESS; NO ACID REACTION, OTHER DATA NOT APPLICABLE (513-523 ft).
520 ft	27 min 24 sec			SAND WITH GRAVEL	523'	SAND w/ GRAVEL. SAME AS ABOVE (513-523 foot).
530 ft	28 min 23 sec			SAND WITH GRAVEL	533'	SAND w/ GRAVEL. SAME AS ABOVE (523-533 foot) GRAVEL UP TO 5mm.
540 ft	75 min 46 sec			SAND w/ SOME GRAVEL	543'	SAND w/ SOME GRAVEL - DARK GRAYISH BROWN (W) (10 YR 4 1/2), COARSE SAND (40%), MEDIUM-FINE SAND (30%), FINE GRAVELS UP TO 5mm (20%), VOLCANIC FRAGMENTS (7%), QUARTZ/CHERT (20%), LITHIC FRAGMENTS (10%), SORTING NOT STATED; ANGULAR TO SUBANGULAR, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE (543-553 ft).
550 ft	101 min 40 sec			SAND w/ SOME GRAVEL	553'	SAND w/ SOME GRAVEL - SAME AS ABOVE (543-553 foot) (MUCH SCLEROTIC DEBRIS & QUESTIONABLE ORIGIN 60% COARSE, 20% MED-FINE SAND, 20% FINE GRAVEL)

LOG OF BOREHOLE

BOREHOLE GN-IT 6
PAGE 8 OF 13

LOC. or COORDS. T2N-R57E-SEC. 156d.
GARDENS VALLEY NEVADA.
GROUND ELEV. _____
TOTAL DEPTH 1,065 ft.
BOREHOLE DIAM. 12 3"

DRILLER WRIGHT DRILL CO
Drilling: _____
MIKE HARRIS
RIG FALLING 2500
BIT(S) TRICONE
FLUID BENTONITE

START	FINISH
DATE <u>9-6-80</u>	<u>9-14-80</u>
TIME <u>0435</u>	<u>1519</u>
GEOPHYS. LOG <input checked="" type="checkbox"/>	YES <input type="checkbox"/>
HOW LEFT	<u>UNRESTORED.</u>

LOCATION GARDENS VALLEY T2N-R57E-SEC. 156d.
LOGGED BY K. SMITH - SS. LOS - H. GARDNER
G. CRONK - M. HUME.

DEPTH	PENE RATE	CIRC ACT LOC	AIRLIFT Q (gpm)	MATERIAL	SYM BOL	DESCRIPTION and COMMENTS
560 ft						COBBLES BOULDERS ≈ 562 ft HARD DRILLING
570 ft	125 min 54 sec			SAND		SAND W/V. LITTLE CLAY - DARK GLAYISH BROWN (W) (10YR 4/2), ME-DIUM SAND (70%), FINE SAND (25%), CLAY (5%), VOLCANIC FRAGMENTS (85%), CHEST (10%), CLAY (5%), TRACE QUARTZ; MODERATELY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, NO REACTIONS TO HCl, OTHER DATA NOT APPLICABLE. (563 - 573 ft).
580 ft	57 min 49 sec			SAND		SAND W/V. LITTLE CLAY - SAME AS ABOVE (563 TO 573 foot)
590 ft	85 min 40 sec			SAND		SAND W/V. LITTLE CLAY - SAME AS ABOVE (573 - 583 foot).
600 ft	50 min 8 sec			SAND		SAND W/V. LITTLE CLAY - SAME AS ABOVE (583 - 593 foot).
610 ft	70 min 38 sec			SAND		SAND W/V. LITTLE CLAY - DARK GLAYISH BROWN (W) (10YR 4/2), MEDIUM SAND (70%), FINE SAND (25%), CLAY (5%), VOLCANIC FRAGMENTS (85%), CHEST (10%), CLAY (5%), TRACE QUARTZ; MODERATELY SORTED, ANGULAR TO SUBANGULAR; STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE (603 - 613 ft).
620 ft	51 min 17 sec			SAND		SAND W/V. LITTLE CLAY - BROWN (W), (7.5 YR 5/2), MEDIUM SAND (70%), FINE SAND (25%), CLAY (5%), VOLCANIC FRAGMENTS (25%), CARBONATE (25%), LITHIC (20%), CHEST (10%), QUARTZ (10%), HAIRIES (5%), CLAY (5%). POORLY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE. (613 - 623 ft).
630 ft	64 min 22 sec			SAND		SAND W/V. LITTLE CLAY. SAME AS ABOVE (613 - 623 foot), EXCEPT WITH SMALL ORGANIC CONTENT.
640 ft	69 min 50 sec			SAND		SAND W/V. LITTLE CLAY - SAME AS ABOVE (623 - 633 foot).

PROJECT FY-80

LOG OF BOREHOLE

LOC. or COORDS. T2N-R57E-Sec 15 6d
GARDEN VALLEY NEVADA.

GROUND ELEV. _____

TOTAL DEPTH 1,065 ft.

BOREHOLE DIAM. 12.3"

DRILLER WEIGHT DRILL CO.

Tooling: _____

ONE HELDIS

RIG: FALLING 2500

BIT(S) TRICONE

FLUID BENTONITE

START	FINISH
DATE <u>9-6-80</u>	<u>9-14-80</u>
TIME <u>0435</u>	<u>1519</u>
GEOPHYS. LOG. <input checked="" type="checkbox"/>	YES <input type="checkbox"/>
HOW LEFT: _____	<u>UNRESTORED.</u>

DEPTH	PENE. RATE	CIRC. RET. LOG	AIRLIFT (gpm)	MATERIAL	SYM. BOL	DESCRIPTION and COMMENTS
640 ft	29 min 20 sec			SAND	643'	SAND W/ V LITTLE CLAY - BROWN (W) (7.5 YR 5/2), MEDIUM SAND (70%), FINE SAND (25%), CLAY (5%), VOLCANIC FRAGMENTS (25%), CARBONATE (25%), LITHIC (20%), CHEST (10%), QUARTZ (10%), MAFICS (5%), CLAY (5%), SMALL ORGANIC CONTENT, POORLY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE (643 - 653 ft).
650 ft	40 min			SAND	653'	SAND W/ V LITTLE CLAY - SAME AS ABOVE (643 - 653 foot) EXCEPT NO ORGANIC CONTENT.
660 ft	42 min 38 sec			SAND	663'	SAND GRAYISH BROWN (W) (10 YR 5/2), COARSE SAND (50%), MEDIUM SAND (25%), FINE SAND (20%), CLAY (5%), VOLCANIC FRAGMENTS (25%), CARBONATE (25%), LITHIC (20%), CHEST (10%), QUARTZ (10%), MAFICS (5%), CLAY (5%), POORLY SORTED, ANGULAR, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE. (663 - 673 ft).
670 ft	48 min 43 sec			SAND	673'	SAND - SAME AS ABOVE (663 - 673 foot)
680 ft	23 min 45 sec			SAND	683'	SAND - BROWN (W) (7.5 YR 5/2), MEDIUM SAND (60%), COARSE SAND (20%), FINE SAND (15%), CLAY (5%), POORLY SORTED, ANGULAR TO SUB-ROUNDED, STRUCTURELESS, ACID REACTION NOT STATED, OTHER DATA NOT APPLICABLE. (683 - 693 ft).
690 ft	22 min 19 sec			SAND	693'	SAND - SAME AS (683 - 693 foot) EXCEPT NO COARSE, 50% MEDIUM & 45% FINE SAND.
700 ft	33 min 27 sec			SAND	703'	SAND - BROWN (W) (7.5 YR 5/2), MEDIUM SAND (60%), COARSE SAND (20%), FINE SAND (15%), CLAY (5%), LITHIC FRAGMENTS (40%), CARBONATES (20%), VOLCANIC (20%), CHEST (10%), CLAY (5%), MAFICS (5%); POORLY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE. (703 - 713 ft).
710 ft	23 min 26 sec			SAND	713'	SAND - SAME AS ABOVE (703 - 713 foot), EXCEPT FOR AN INCREASE IN FINE SAND UP TO 25%, COARSE SAND (10%).
720 ft						

LOGGED BY V. ENRICH, S.C. ROG, M. GEMMEL
G. CRANK, M. HUME
M.R. PROJECT FY-80

2N. R57E Sec 13 T1.
NEVADA
GROUND ELEV. _____
TOTAL DEPTH 1,065 ft
BOREHOLE DIAM. 12.3"

DRILLER
MICK HARRIS
RIG FOILING 2500
BIT(S) TRICONE
FLUID BENTONITE

DATE 7/15/19
TIME 0435
GEOPHYS. LOG YES
HOW LEFT UNRESTORED

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT (l/gpm)	MATERIAL	SYM. BOL.	DESCRIPTION and COMMENTS
-720 ft	29 min 19 sec			SAND	723	SAND - BROWN (W) (10YR 4/3), MEDIUM SAND (45%), FINE SAND (40%), CLAY (5%), LITHIC FRAGMENTS (40%), CARBONATES (20%), VOLCANICS (15%), CHEST (10%), CLAY (5%), QUARTZ (5%), MAFICS (5%), POORLY SORTED ANGULAR TO SUBROUNDED, STRUCTURELESS; SLIGHTLY STICKY; NO ACID REACTION, OTHER DATA NOT APPLICABLE (723-732 ft)
-730 ft	48 min 79 sec			SAND	733	SAND - BROWN (W) (7.5 YR 4/2), MEDIUM SAND (40%), FINE SAND (30%), COARSE SAND (25%), CLAY (5%), LITHIC FRAGMENTS (30%), CARBONATES (25%), VOLCANICS (20%), CHEST (10%), CLAY (5%), QUARTZ (5%), MAFICS (5%), POORLY SORTED, ANGULAR TO SUBROUNDED; STRUCTURELESS, SLIGHT ACID REACTION, OTHER DATA NOT APPLICABLE (733-743 ft)
-740 ft	48 min 29 sec			SAND	743	SAND: SAME AS THE ABOVE (733 - 743 foot), EXCEPT FOR AN INCREASE IN FINE SAND TO 35%.
-750 ft	73 min 51 sec			SAND	753	SAND - BROWN (W) (7.5 YR 4/3), MEDIUM SAND (50%), FINE SAND (30%), COARSE SAND (20%), LITHIC FRAGMENTS (40%), CARBONATES (25%), VOLCANICS (20%), QUARTZ (5%), CHEST (5%), MAFICS (5%), POORLY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE (753-763 ft).
-760 ft	307 min 28 sec			SAND	763	SAND - SAME AS ABOVE (753-763 foot), EXCEPT: 60% MEDIUM SAND, 20% FINE SAND & 15% COARSE SAND.
-770 ft	70 min 10 sec			SAND	773	SAND, GRAYISH BROWN (W) (10YR 5/2), MEDIUM SAND 50%, FINE SAND (40%), CLAY (5%), CARBONATE (20%), VOLCANIC FRAGMENT (30%), LITHIC FRAGMENTS (10%), QUARTZ (10%), CHEST (10%), MAFICS (5%), CLAY (5%), MODERATELY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE (773-783 ft).
-780 ft	53 min 35 sec			SAND	783	SAND VERY DARK GRAY (W) (10YR 3/1), MEDIUM SAND (70%), FINE SAND (30%), CARBONATES (30%), VOLCANICS (30%), LITHIC FRAGMENTS (20%), CHEST (10%), QUARTZ (5%), MAFICS (5%), MODERATELY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE (783-792 ft)
-790 ft	18 min 32 sec			SAND	793	SAND DARK GRAY (W) (7.5 YR 4/5) SAME AS ABOVE (783-792 ft)

G. Clark

LOG OF BOREHOLE

LOC. or COORDS. T2N-R57E-Sec 15Ld.
GLACIER VALLEY NEVADA
 GROUND ELEV. _____
 TOTAL DEPTH 1,065 ft
 BOREHOLE DIAM. 12.3"

DRILLER WEIGHT DRILL CO
 Drilling: _____
MIKE HARRIS
 RIG FALLING 2500
 BIT(S) TRICONE
 FLUID BENTONITE

START	FINISH
DATE <u>9-6-80</u>	<u>9-14-80</u>
TIME <u>0935</u>	<u>1519</u>
GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
HOW LEFT <u>UNRESTORED</u>	

LOCATION _____
 LOGGED BY K. KNIRCH S.S. BOG, M. GEMMELL
G. COOK, M. HUME
 NX - PROJECT - FY - 80

DEPTH	PENE. RATE	CIRC RET	AIRLIFT LOC	AIRLIFT Q (gpm)	MATERIAL	SYM BOL	DESCRIPTION and COMMENTS
800 ft	44 min 5 sec				SAND	803'	<u>SAND - VERY DARK GRAY (10% R 3/4), MEDIUM SAND (70%), FINE SAND (30%); LITHIC FRAGMENTS (30%), CARBONATE (30%), VOLCANICS 20% CHECT (10%), QUARTZ (5%), MAFICS (5%); MODERATELY SORTED, ANGULAR TO SUBCOUNDED; STRUCTURELESS; NO ACID REACTIONS; OTHER DATA NOT APPLICABLE. (803 - 813 ft)</u>
810 ft	82 min 41 sec				SAND	813'	<u>SAND SAME AS ABOVE (803 - 813 foot)</u>
820 ft	85 min 35 sec				SAND	823'	<u>SAND - BROWN (W) (7.5 YR 5/2), MEDIUM SAND (50%), FINE SAND (40%) COARSE SAND (10%), LITHIC FRAGMENTS (40%), CARBONATE (20%), VOLCANICS (20%), CHECT (10%), QUARTZ (5%), MAFICS (5%); MODERATELY SORTED, ANGULAR TO SUBCOUNDED; STRUCTURELESS; NO ACID REACTION; OTHER DATA NOT APPLICABLE. (823 - 833 ft)</u>
830 ft	82 min 42 sec				SAND	833'	<u>SAND - BROWN (W) (7.5 YR 5/2), MEDIUM SAND (50%), COARSE SAND (30%), FINE SAND (20%), LITHIC FRAGMENTS (25%), CARBONATES (20%), VOLCANICS (20%), CHECT (10%), QUARTZ (10%), MAFICS (5%); MODERATELY SORTED, ANGULAR TO SUBCOUNDED; STRUCTURELESS; NO ACID REACTION; OTHER DATA NOT APPLICABLE. (833 - 843 ft)</u>
840 ft	104 min 57 sec				SAND	843'	<u>SAND - BROWN (W) (7.5 YR 5/2), MEDIUM SAND (60%), FINE SAND (15%) COARSE SAND (15%), LITHIC FRAGMENTS (40%), CARBONATE (20%), VOLCANICS (20%), CHECT (10%), QUARTZ (5%), MAFICS (5%); POORLY SORTED, ANGULAR TO SUBCOUNDED; STRUCTURELESS; NO ACID REACTION; OTHER DATA NOT APPLICABLE. (843 - 853 ft)</u>
850 ft	77 min 26 sec				SAND	853'	<u>SAND - BROWN (W) (7.5 YR 4/2), COARSE SAND (45%), MEDIUM SAND (40%), FINE SAND (15%); LITHIC FRAGMENTS (30%), CARBONATES (20%), VOLCANICS (20%), QUARTZ (15%), CHECT (10%), MAFICS (5%); POORLY SORTED, ANGULAR TO SUBCOUNDED; STRUCTURELESS; NO ACID REACTIONS; OTHER DATA NOT APPLICABLE. (853 - 863 ft)</u>
860 ft	108 min 42 sec				SAND	863'	<u>SAND - BROWN (W) (7.5 YR 4/4), COARSE SAND (30%), MEDIUM SAND (35%), FINE SAND (25%); LITHIC FRAGMENTS (40%), CARBONATES (20%), VOLCANICS (15%), QUARTZ (10%), CHECT (10%), MAFICS (5%); POORLY SORTED, ANGULAR TO SUBCOUNDED; STRUCTURELESS; NO ACID REACTIONS; OTHER DATA NOT APPLICABLE. (863 - 873 ft)</u>
870 ft	149 min 75 sec				SAND	873'	<u>SAND - BROWN (W) (7.5 YR 4/2), MEDIUM SAND (45%), FINE SAND (35%), COARSE SAND (20%), LITHIC FRAGMENTS (30%), CARBONATES (25%), VOLCANICS (20%), QUARTZ (10%), CHECT (10%), MAFICS (5%); POORLY SORTED, ANGULAR TO SUBCOUNDED; STRUCTURELESS; NO ACID REACTIONS; OTHER DATA NOT APPLICABLE. (873 - 883 ft)</u>

LOCATION GARDEN VALLEY T2N-R57E-SEC 156
LOGGED BY V-KNIPICH - S. J. H. GARNETT
S. CONIC M HUME
PROJECT - FY - 80

LOC. or COORDS. T2N-R57E-SEC 156d
GARDEN VALLEY NEVADA
GROUND ELEV. _____
TOTAL DEPTH 1,065 ft.
BOREHOLE DIAM. 12.3"

DRILLER WRIGHT DRILL CO
Drilling:
MIKE HARRIS
RIG FALLING 2500
BIT(S) TRICONE
FLUID BENTONITE

START FINISH
DATE 9-6-80 9-14-80
TIME 0435 1519
GEOPHYS. LOG YES
HOW LEFT UNRESTORED

DEPTH	PENE RATE	CIRC AFT LCC	AIRLIFT 9 (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
880 ft	61 min 54 sec			SAND	882'	SAND - BROWN (W) (7.5 YR 5/2), MEDIUM SAND (45%), FINE SAND (35%), COARSE SAND (5%), CLAY BALLS (5%), LITHIC FRAGMENTS (25%), CARBONATES (25%), VOLCANICS (20%), CHECT (15%), QUARTZ (5%), MAFICS (5%), CLAY (5%), POORLY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE. (883-893 ft)
890 ft	59 min 59 sec			SAND	893'	SAND w/ VERY LITTLE CLAY - BROWN (W) (7.5 YR 5/2), MEDIUM SAND (45%), FINE SAND (30%), CLAY (10%), LITHIC FRAGMENTS (30%), CARBONATES (20%), VOLCANICS (15%), CHECT (10%), QUARTZ (10%), CLAY (10%), MAFICS (5%), POORLY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS, SLIGHTLY STICKY, NO ACID REACTION, OTHER DATA NOT APPLICABLE. (893-903 ft)
900 ft	86 min 22 sec			SAND	903'	SAND - GRAYISH BROWN (W) (10YR 5/2), FINE SAND (40%), MEDIUM (35%), COARSE SAND (20%), CLAY (5%), CARBONATES (30%), VOLCANICS (20%), CHECT (10%), QUARTZ (10%), LITHIC FRAGMENTS (10%), CLAY (5%), MAFICS (5%), POORLY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE. (903-913 ft)
910 ft	169 min 10 sec			SAND	913'	SAND - BROWN (W) (10YR 4/2), MEDIUM SAND (60%), COARSE SAND (20%) & FINE GRAIN SAND (20%), CARBONATE (35%), VOLCANICS (25%), LITHIC FRAGMENTS (2%), CHECT (10%), QUARTZ (5%), MAFICS (5%), POORLY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE (913-923 ft)
920 ft	89 min 36 sec			SAND	923'	SAND BROWN (W) (10YR 4/2), MEDIUM GRAIN SANDS (60%), FINE SAND (30%), COARSE SAND (10%), CARBONATES (30%), VOLCANICS (25%), LITHIC FRAGMENTS (2%), CHECT (10%), QUARTZ (5%), MAFICS (5%), MODERATELY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE. (923-933 ft)
930 ft	149 min 45 sec			SAND	933'	SAND BROWN (W) (7.5 YR 5/2), FINE SAND (60%), MEDIUM SAND (40%), CLAY MATE (30%), VOLCANICS (25%), LITHIC FRAGMENTS (25%), CHECT (10%), QUARTZ (5%), MAFICS (5%), MODERATELY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS, NO ACID REACTION, OTHER DATA NOT APPLICABLE. (933-943 ft)
940 ft	121 min 6 sec			SAND	943'	SAND DARK GRAYISH BROWN (W) (10YR 4/2) SAME AS ABOVE (933-943 feet), EXCEPT WITH 5% CLAY
950 ft	130 min 1 sec			SAND	953'	SAND VERY DARK GRAY (10YR 3/1) SAME AS (943 TO 953 feet)

LOG OF BOREHOLE

LOC. or COORDS. T2N-R57E-sec.15Ld
GARDEN VALLEY NEVADA
 GROUND ELEV. _____
 TOTAL DEPTH 1,065 ft
 BOREHOLE DIAM. 12.3"

DRILLER WRIGHT DRILL CO.
DRILLING
MIKE HARRIS
 RIG FALLING 2500
 BIT(S) TRICONE
 FLUID BENTONITE

START DATE <u>9-6-90</u>	FINISH DATE <u>9-14-90</u>
TIME <u>0435</u>	<u>1519</u>
GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
HOW LEFT <u>UNRESTORED</u>	

LOCATION GARDEN VALLEY T2N R5
 LOGGED BY K. KROGER - S. R. G. W. GEMMEL
G. COONK - M. HUNN

PROJECT INTERMEDIATE - ADULTER FROSCAM
NY - PROJECT FY - 90

DEPTH	PENE RATE	CIRC RET	AIRLIFT Q (gpm)	MATERIAL	SYM BOL	DESCRIPTION and COMMENTS
960 ft	157 min 04 sec			SAND	963'	SAND - DARK GRAYISH BROWN (W) (10YR 4/2); MEDIUM SAND (50%); COARSE SAND (20%), FINE SAND (20%), CLAY & FINE GRAVEL (2.5%), CARBONATES (30%), VOLCANICS (30%), LITHIC FRAGMENTS (15%), CHEST (10%), QUARTZ (10%), MAFICS (5%), TRACE CLAYS; SORTING NOT STATE. ANGULAR TO SUBROUNDED, STRUCTURELESS, NO ACID REACTION; OTHER DATA NOT APPLICABLE. (963 - 973 ft).
970 ft	75 min 52 sec			SAND	973'	SAND - DARK GRAYISH BROWN (W) (10YR 4/2); MEDIUM SAND (50%); FINE SAND (20%), COARSE SAND (20%); FINE GRAVEL (10%); VOLCANIC FRAGMENTS (35%), CARBONATES (25%), LITHIC FRAGMENTS (15%), CHEST (15%), QUARTZ (5%), MAFICS (5%); POORLY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS; NO ACID REACTION; OTHER DATA NOT APPLICABLE. (973 - 983 ft).
980 ft	67 min 53 sec			SAND	983'	SAND - SAME AS ABOVE (973-983) EXCEPT FOR INCREASE IN GRAVEL TO 15%.
990 ft	44 min 19 sec			SAND	993'	SAND - SAME AS (973-983 foot), EXCEPT FOR INCREASE IN COARSE SAND TO 50%.
1000 ft	66 min 7 sec			SAND	1003'	SAND - DARK GRAYISH BROWN (W) (10YR 4/2); COARSE SAND (20%); FINE SAND (20%), MEDIUM SAND (20%), FINE GRAVEL (20%), VOLCANIC FRAGMENTS (30%), CARBONATES (30%), LITHIC FRAGMENTS (15%), CHEST (15%), QUARTZ (5%), MAFICS (5%); POORLY SORTED, ANGULAR TO SUBROUNDED; STRUCTURELESS, NO ACID REACTION; OTHER DATA NOT APPLICABLE. (1003 - 1013 ft).
1010 ft	17 min 46 sec			SAND WITH GRAVEL	1013'	SAND w/ GRAVEL - DARK GRAYISH BROWN (W) (10YR 4/2); COARSE SAND (20%), FINE GRAVEL (30%), MEDIUM SAND (20%); FINE GRAVEL (20%); VOLCANIC FRAGMENTS (30%), CARBONATES (30%), LITHIC FRAGMENTS (15%), CHEST (15%), QUARTZ (5%), MAFICS (5%); POORLY SORTED, ANGULAR TO SUBROUNDED, STRUCTURELESS; NO ACID REACTION; OTHER DATA NOT APPLICABLE (1013 - 1023 ft).
1020 ft	20 min 27 sec			SAND WITH GRAVEL	1023'	SAND w/ GRAVEL SAME AS ABOVE (1012 - 1023 foot)
1030 ft	23 min 59 sec			SAND WITH SOME GRAVEL	1033'	SAND w/ SOME GRAVEL - DARK GRAYISH BROWN (W) (10YR 4/2); COARSE SAND (20%) MEDIUM SAND (20%), FINE SAND (20%), FINE GRAVEL (20%), CARBONATES (25%), VOLCANICS (25%), LITHIC FRAGMENTS (15%), CHEST (15%), QUARTZ (5%), MAFICS (5%); POORLY SORTED, ANGULAR TO SUBROUNDED; STRUCTURELESS, NO ACID REACTION; OTHER DATA NOT APPLICABLE. (1033 - 1043 ft).
1040 ft						