



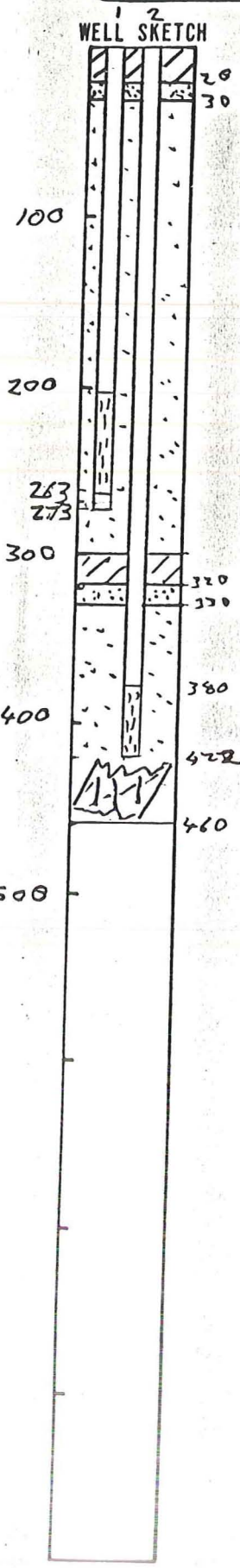
GL04787

WELL NO. CV-201  
 LOGGED BY \_\_\_\_\_  
 DATE (S) \_\_\_\_\_

SHEET \_\_\_ OF \_\_\_  
 PROJECT NO. 79-290-45  
 PROJECT NAME MX

ELEVATION  
 GROUND LEVEL \_\_\_\_\_  
 TOP OF CASING 2' ABOVE G.S.

LOCATION OR COORDINATES (7N-63E)-14ab



**DRILLING SUMMARY**  
 TOTAL DEPTH DRILLED 460  
 ROTARY  CORE \_\_\_\_\_  
 DRILLING CONTRACTOR WRIGHT

PACKERS Ø  
 CENTRALIZERS EVERY 100' BOTTOM UP.  
 SAND OR GRAVEL PACK GRAVEL: 30-300, 330-70. SAND 20-30, 320-330.  
 CEMENT (MIX) 10:1 DEPTH (S) 0'-20' 300-320'  
 BENTONITE \_\_\_\_\_  
 PELLETS \_\_\_\_\_  
 SLURRY \_\_\_\_\_

RIG (S) USED INGERSOLL RAND TH-60  
 SIZE (S) AND TYPE (S) OF BITES 9 1/2 TRICONE  
 DRILLING FLUID BENTONITE MUDS.

**DEVELOPMENT**  
 TREMIE \_\_\_\_\_  
 DEPTH \_\_\_\_\_  
 TIME \_\_\_\_\_

SAMPLING METHOD GRAB AS DISCHARGE PIPE  
 SURFACE CASING Ø  
 COMMENTS (PROBLEMS, SHUTDOWNS, ETC)  
DRILL BIT, COLLAR & STABILIZER  
WERE STUCK IN LOWER 40' OF HOLE.

**TIME LOG**

	START	FINISH	ELAPSED TIME	% OF TOTAL
DRILLING				
LOGGING				
CASING				
GRAVEL PACKING				
CEMENTING				
BENTONITE PELLETS				
SLURRY				
DEVELOPMENT				

**DESIGN**  
 BASIS DRILLER'S LOG \_\_\_\_\_  
 GEOLOGIC LOG ✓  
 GEOPHYSICAL LOG ✓  
 COPIES ATTACHED — YES — NO

STEEL CASING STRING #1  
 FROM 0 TO 200  
 FROM 200 TO 263 SLOT  
 FROM 263 TO 273  
 FROM \_\_\_\_\_ TO \_\_\_\_\_

STEEL CASING STRING #2  
 FROM 0 TO 380  
 FROM 380 TO 422 SLOT  
 FROM \_\_\_\_\_ TO \_\_\_\_\_  
 FROM \_\_\_\_\_ TO \_\_\_\_\_  
 FROM \_\_\_\_\_ TO \_\_\_\_\_

CASING STEEL 2 1/2"  
 DIMENSIONS 2" ID  
 SCREEN DIMENSIONS 2" ID  
 SLOT SIZE .080" x .2"

**MISCELLANEOUS**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# LOG OF BOREHOLE

BOREHOLE CV - I & 7

PAGE 1 OF 6

LOC. or COORDS. 7N-63E-15  
CAVE VALLEY - NEVADA  
 GROUND ELEV. \_\_\_\_\_  
 TOTAL DEPTH 446 ft.  
 BOREHOLE DIAM. \_\_\_\_\_

DRILLER K & B WESTERN.  
 Drilling: \_\_\_\_\_  
RICK SMITH  
 RIG IR - TH 60  
 BIT(S) \_\_\_\_\_  
 FLUID \_\_\_\_\_

START DATE 8-23-80 FINISH DATE 8-30-80  
 TIME \_\_\_\_\_  
 GEOPHYS. LOG YES NO  
 HOW LEFT UNRESTORED

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYMBOL	DESCRIPTION and COMMENTS
00 ft	26 min 2 sec.			SILT		SILT - LIGHT GREY (D) (10 YR 7/2), STRONG ACID REACTION (0-8 ft)
10 ft	31 min			SAND WITH GRAVEL		SAND WITH GRAVEL - LIGHT BROWNISH GREY (D), (10 YR 5/2); COARSE SAND (50%), MEDIUM SAND (10%), FINE SAND (10%), GRAVEL UP TO 25mm (30%); VOLCANIC FRAGMENTS (30%), QUARTZ (20%), CARBONATE (20%), FELDSPAR (20%), CHEST (10%); POORLY SORTED, STRUCTURELESS; PLASTICITY NOT APPLICABLE; MODERATELY CEMENTED, STRONG ACID REACTION; UNIFORMITY NOT STATED (8-20 ft)
20 ft	81 min 24 sec.			SAND WITH GRAVEL		SAND WITH GRAVEL - BROWN (W), (10 YR 4/3), COARSE SAND (25%), FINE GRAVEL (25%), QUARTZ (40%), VOLCANIC FRAGMENTS (30%), CARBONATE (20%), FELDSPAR (10%), MODERATELY SORTED, SUBROUNDED, STRUCTURELESS; PLASTICITY & CONSOLIDATION NOT APPLICABLE STRONG ACID REACTION; UNIFORMITY NOT STATED (20-30 ft)
30 ft	36 min			SAND WITH GRAVEL		SAND WITH GRAVEL - BROWN (W), (10 YR 5/3), COARSE SAND (40%), MEDIUM SAND (10%), GRAVEL (25%), QUARTZ (40%), VOLCANIC FRAGMENTS (20%), CARBONATES (15%), FELDSPAR (10%), LITHIC FRAGMENTS (10%), MAFICS (5%); POORLY SORTED, WELL ROUNDED TO SUBANGULAR; STRUCTURELESS, PLASTICITY & CONSOLIDATION NOT APPLICABLE STRONG ACID REACTION, UNIFORMITY NOT STATED (30-40 ft)
40 ft	66 min 9 sec.			SAND & GRAVEL		SAND & GRAVEL - BROWN (W), (10 YR 5/3), GRAVEL (50%), COARSE SAND (35%), MEDIUM SAND (10%), FINE SAND (10%), QUARTZ (30%), CARBONATES (20%), VOLCANICS (15%), LITHIC FRAGMENTS (25%), FELDSPAR (5%), MAFICS (5%); POORLY SORTED, WELL ROUNDED TO ANGULAR, STRUCTURELESS, PLASTICITY & CONSOLIDATION NOT APPLICABLE; STRONG ACID REACTION, UNIFORMITY NOT STATED (40-50 ft)
50 ft	76 min 31 sec.			SAND WITH GRAVEL		SAND WITH GRAVEL - BROWN (W), (10 YR 4/3), COARSE SAND (60%), MEDIUM SAND (10%), FINE GRAVEL UP TO 7mm (30%), VOLCANIC FRAGMENTS (30%), QUARTZ CARBONATE (30%), FELDSPAR (10%); MODERATELY SORTED, ROUNDED TO SUBROUNDED, STRUCTURELESS, PLASTICITY & CONSOLIDATION NOT APPLICABLE STRONG ACID REACTION, UNIFORMITY NOT STATED (50-60 ft)
60 ft	13 min			SILT & SAND		SILT & SAND - BROWN (W) (10 YR 4/3), SILT (50%), VERY FINE TO FINE SAND (50%); WELL SORTED, STRUCTURELESS, STRONG ACID REACTION (60-70 ft)
70 ft	15 min 52 sec.			SAND		SAND - DARK GREYISH BROWN (W) (10 YR 4/2), COARSE SAND (50%), MEDIUM SAND (30%), FINE SAND (10%), ROUNDED GRAVEL UP TO 12mm (10%); VOLCANIC FRAGMENTS (40%), CARBONATE (40%), QUARTZ (20%); MODERATELY SORTED, SUBROUNDED TO SUBANGULAR, STRUCTURELESS, PLASTICITY & CONSOLIDATION NOT APPLICABLE; STRONG ACID REACTION, UNIFORMITY NOT STATED (70-80 ft)
80 ft						

LOCATION CAVE VALLEY - NEVADA  
 LOGGED BY K - BLOSE  
 PROJECT INTEGRATED AQUIFER PROGRAM  
 MX PROJECT FY - 80

# LOG OF BOREHOLE

BOREHOLE CV-I 07

PAGE 2 OF 6

LOC. or COORDS. 7N-63E-15  
CAVE VALLEY - NEVADA

DRILLER K & B WESTERN  
DRILLING:

START DATE 8-23-80 FINISH DATE 8-30-80

GROUND ELEV. \_\_\_\_\_

RIK SMITH

TIME \_\_\_\_\_

TOTAL DEPTH 446 ft.

RIG IR - TH 60

GEOPHYS. LOG YES NO

BOREHOLE DIAM. \_\_\_\_\_

BIT(S) \_\_\_\_\_

HOW LEFT UNRESTORED

FLUID \_\_\_\_\_

LOCATION CAVE VALLEY NEVADA  
LOGGED BY K - BLOSE

PROJECT INTERMEDIATE AQUIFER PROGRAM  
MX PROJECT FY - 80

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
80 ft	9 min 18 sec			SAND		SAND - DARK GREYISH BROWN (W) (10 YR 4/2); COARSE SAND (50%) MEDIUM (30%), FINE SAND (10%), ROUNDED GRAVEL UP TO 12 mm (10%) VOLCANIC FRAGMENTS (40%), CARBONATE (40%), QUARTZ (20%); MOD. RATELY SORTED, SUBROUNDED TO SUBANGULAR, STRUCTURELESS, PLASTICITY & CONSOLIDATION NOT APPLICABLE STRONG ACID REACTION, UNIFORMITY NOT STATED (80 - 90 ft).
90 ft	12 min 17 sec			SAND WITH GRAVEL		SAND WITH GRAVEL - DARK GREYISH BROWN (W) (10 YR 4/2); COARSE SAND (50%) MEDIUM (25%), WITH SUBROUNDED - GRAVEL UP TO 15 mm (25%), VOLCANIC FRAGMENTS (40%), CARBONATE (40%), QUARTZ (20%), POORLY SORTED, SUBROUNDED TO SUBANGULAR, STRUCTURELESS; STRONG ACID REACTION, UNIFORMITY NOT STATED (90 - 100 ft)
100 ft	14 min 28 sec			SAND WITH GRAVEL		SAND WITH GRAVEL - DARK GREYISH BROWN (W) (10 YR 4/2); COARSE SAND (75%) FINE GRAVEL (20%), COARSE GRAVEL (5%), CARBONATE (40%), VOLCANIC FRAGMENTS (20%), QUARTZ (20%), CHERT (20%); MODERATELY SORTED, SUBROUNDED TO SUBANGULAR, STRUCTURELESS, STRONG ACID REACTION. 100 - 110 ft.
110 ft	12 min 48 sec			SAND WITH GRAVEL		SAND WITH GRAVEL - DARK GREYISH BROWN (W) (10 YR 4/2); COARSE SAND (6%) FINE GRAVEL (30%), COARSE GRAVEL UP TO 10 mm (10%); VOLCANIC FRAGMENTS (30%), QUARTZ (20%), CHERT (20%); MODERATELY SORTED, SUBROUNDED TO SUBANGULAR, STRUCTURELESS, STRONG ACID REACTION (110-120 ft)
120 ft	13 min 37 sec			SAND WITH GRAVEL		SAND WITH GRAVEL - DARK GREYISH BROWN (W) (10 YR 4/2); COARSE SAND (40%) MEDIUM SAND (20%), FINE SAND (10%), FINE GRAVEL (20%), COARSE GRAVEL UP TO 11 mm (10%), CARBONATE (30%), VOLCANIC FRAGMENTS (30%), QUARTZ (20%) CHERT (20%); POORLY SORTED, SUBROUNDED TO SUBANGULAR, STRUCTURELESS STRONG ACID REACTION. (120-130 ft)
130 ft	11 min 35 sec			SAND		SAND - DARK GREYISH BROWN (W) (10 YR 4/2); MEDIUM SAND (50%), FINE SAND (30%), COARSE SAND (20%), TRACE GRAVEL UP TO 10 mm, CARBONATE (30%), VOLCANIC FRAGMENTS (30%), QUARTZ (20%), CHERT (20%), WE SORTED, SUBROUNDED TO SUBANGULAR, STRUCTURELESS, STRONG ACID REACTION. (130 - 140 ft)
140 ft	19 min 23 sec			SAND WITH GRAVEL		SAND WITH GRAVEL - DARK GREYISH BROWN (W) (10 YR 4/2); COARSE SAND (50%) MEDIUM SAND (15%), FINE SAND (10%), COARSE GRAVEL UP TO 10 mm (15%), FINE GRAVEL (10%), VOLCANIC FRAGMENTS (40%), CARBONATE (20%), QUARTZ (20%), CHERT (20%); POORLY SORTED, ANGULAR TO SUBANGULAR, STRUCTURELESS STRONG ACID REACTION. (140-150 ft)
150 ft	13 min 9 sec			SAND WITH GRAVEL		SAND WITH GRAVEL - DARK GREYISH BROWN (W) (10 YR 4/2); COARSE SAND (60%) MEDIUM SAND (15%), FINE SAND (15%), COARSE GRAVEL UP TO 9 mm (10%), VOLCANIC FRAGMENTS (30%), CARBONATE (30%), QUARTZ (30%), CHERT (10%), MODERATELY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, STRONG ACID REACTION. (150 - 160 ft)
160 ft						

# LOG OF BOREHOLE

BOREHOLE CV-I-Q7

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LOC. or COORDS. 7N-63E-15  
CAVE VALLEY - NEVADA  
 GROUND ELEV. \_\_\_\_\_  
 TOTAL DEPTH 446 ft.  
 BOREHOLE DIAM. \_\_\_\_\_

DRILLER K & B WESTERN  
Drilling.  
RICK SMITH  
 RIG IR - TH-60  
 BIT(S) \_\_\_\_\_  
 FLUID \_\_\_\_\_

START DATE 8-23-80 FINISH DATE 8-30-80  
 TIME \_\_\_\_\_  
 GEOPHYS. LOG YES NO  
 HOW LEFT UNRESTORED

LOCATION CAVE VALLEY NEVADA  
 LOGGED BY K - BLOSE  
 PROJECT INTERMEDIATE ACQUISITION PROGRAM  
MX - PROJECT FY-80

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYMBOL	DESCRIPTION and COMMENTS
-160 ft	15 min 57 sec			SAND WITH GRAVEL		SAND WITH GRAVEL - DARK GREYISH BROWN (W), (10 YR 4/2), COARSE SAND (50%), MEDIUM SAND (25%), FINE GRAVEL (20%), COARSE GRAVEL UP TO 12mm (5%), CARBONATE (30%), VOLCANIC FRAGMENTS (30%), QUARTZ (30%), CEMENT (10%); MODERATELY SORTED, ROUNDED TO SUBANGULAR; STRUCTURELESS; STRONG ACID REACTION. (160 - 170 ft)
-170 ft	19 min 29 sec			SAND WITH GRAVEL		SAND WITH GRAVEL - DARK GREYISH BROWN (W), (10 YR 4/2), COARSE SAND (50%), MEDIUM SAND (30%), FINE GRAVEL w/ TRACE COARSE GRAVEL UP TO 10mm (20%), CARBONATE (30%), VOLCANIC FRAGMENTS (30%), QUARTZ (30%), MODERATELY SORTED, ROUNDED TO SUBANGULAR; STRUCTURELESS; STRONG ACID REACTION. 170 - 180 ft.
-180 ft	19 min 6 sec			SAND		SAND - DARK GREYISH BROWN (W), (10 YR 4/2); COARSE SAND (50%), MEDIUM (30%), & FINE SAND (10%), FINE GRAVEL UP TO 7mm (10%); VOLCANIC FRAGMENTS (30%), CARBONATE (30%), QUARTZ (30%), FELDSPAR, CEMENT (10%); MODERATELY WELL SORTED, ROUNDED TO SUBANGULAR; STRUCTURELESS; STRONG ACID REACTION. (180 - 190 ft)
-190 ft	33 min 22 sec			SAND		SAND - DARK GREYISH BROWN (W); (10 YR 4/2); COARSE SAND (40%), MEDIUM SAND (30%), FINE SAND (20%), FINE GRAVEL UP TO 12mm x 7mm (10%), CARBONATES (40%), VOLCANIC FRAGMENTS (30%), QUARTZ (30%); MODERATELY SORTED, SUBANGULAR TO SUBROUNDED; STRUCTURELESS; STRONG ACID REACTION. (190 - 200 ft)
-200 ft	52 min 2 sec			SAND		SAND - BROWN (W), (10 YR 4/3); COARSE SAND (40%), MEDIUM SAND (30%), FINE SAND (20%), FINE GRAVEL UP TO 9mm (10%), CARBONATE (40%), VOLCANIC FRAGMENTS (30%), QUARTZ (30%); POORLY SORTED, SUBANGULAR TO SUBROUNDED BY ANGULAR LITHIC FRAGMENTS OF LIMESTONE; STRUCTURELESS; STRONG ACID REACTION. (200 - 210 ft)
-210 ft	26 min 48 sec			SAND WITH GRAVEL		SAND WITH GRAVEL. BROWN (W), (10 YR 4/3); COARSE SAND (40%), MEDIUM SAND (30%), FINE GRAVEL UP TO 10mm (25%), CARBONATE (50%), QUARTZ (30%), VOLCANIC FRAGMENTS (20%); MODERATELY SORTED, ANGULAR TO SUBROUNDED; (NOTICEABLE LITHIC FRAGMENTS); STRUCTURELESS; STRONG ACID REACTION. (210 - 220 ft)
-220 ft	9 min 54 sec			SAND WITH GRAVEL		SAND WITH GRAVEL. DARK GREYISH BROWN (W), (10 YR 4/2); COARSE SAND (50%), MEDIUM SAND (20%), FINE SAND (10%), FINE GRAVEL UP TO 10mm (20%), CARBONATE (60%), VOLCANIC FRAGMENTS (20%), QUARTZ (20%); POORLY SORTED, GRAVEL & COARSE SAND VERY ANGULAR (NOTICEABLE LITHIC LIMESTONE FRAGMENTS); STRUCTURELESS; STRONG ACID REACTION (220 - 230 ft)
-230 ft	28 min 34 sec			SAND WITH GRAVEL		SAND WITH GRAVEL SAME AS ABOVE 220-230 foot SAMPLE
-240 ft						

# LOG OF BOREHOLE

BOREHOLE CV - I Q 7

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LOC. or COORDS. 7N-63E-15  
CAVE VALLEY - NEVADA

GROUND ELEV. \_\_\_\_\_

TOTAL DEPTH 446 ft.

BOREHOLE DIAM. \_\_\_\_\_

DRILLER K & B WESTERN  
 DRILLING: \_\_\_\_\_

RICK SMITH

RIG I R - TH 60

BIT(S) \_\_\_\_\_

FLUID \_\_\_\_\_

START DATE 8-23-80 FINISH DATE 8-30-80

TIME \_\_\_\_\_

GEOPHYS. LOG YES NO

HOW LEFT UNRESTORED

LOCATION CAVE VALLEY NEVADA  
 LOGGED BY K - CLOSE

PROJECT INTERMEDIATE Aquifer. PROGRAM  
 MX - PROJECT - FY 80

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
-240 ft	14 min			SAND		SAND - DARK GREYISH BROWN (W), (10 YR 4/2); MEDIUM SAND (60%), COARSE SAND (20%), FINE SAND (20%), GRAVEL UP TO 7mm. (TRACES); CARBONATE (30%), VOLCANIC FRAGMENTS (30%), QUARTZ (30%), FELDSPAR, CHERT (10%), WELL SORTED, SUBANGULAR TO SUBROUNDED; STRUCTURELESS; STRONG ACID REACTION. (240 - 250 ft)
-250 ft	18 min 17 sec.			SAND		SAND - DARK GREYISH BROWN (W), (10 YR 4/2); MEDIUM SAND (40%), FINE GRAVEL UP TO 7mm (TRACES), CARBONATE (40%), VOLCANIC FRAGMENTS (30%), QUARTZ MODERATELY SORTED, ANGULAR TO SUBROUNDED (NOTICEABLE LITHIC LIMESTONE FRAGMENTS - VERY ANGULAR); STRUCTURELESS; STRONG ACID REACTIONS. (250 - 260 ft).
-260 ft	15 min 11 sec.			SAND		SAND - DARK GREYISH BROWN (W), (10 YR 4/2); FINE SAND (40%), MEDIUM (40%) & COARSE SAND (20%), FINE GRAVEL UP TO 12mm (TRACES); CARBONATE (40%), VOLCANIC FRAGMENTS (30%), QUARTZ & FELDSPAR (30%); MODERATELY WELL SORTED, ANGULAR TO SUBROUNDED; STRUCTURELESS; STRONG ACID REACTION; (TRACE CLAY). (260 - 270 ft)
-270 ft	11 min 30 sec.			SAND WITH CLAY & GRAVEL		SAND - BROWN (W) (10 YR 4/3); FINE SAND (20%), MEDIUM SAND (20%), COARSE SAND (20%); CLAY - BROWN (W) (10 YR 4/3) PLASTIC; FINE GRAVEL UP TO 10mm. (10%); CARBONATE (40%), QUARTZ (30%), VOLCANIC FRAGMENTS (30%); POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, PLASTIC, STRONG ACID REACTION. (270 - 280 ft)
-280 ft	15 min 27 sec.			CLAY SAND		SAND WITH CLAY - SAND DARK GREYISH BROWN (W) (10 YR 4/2); FINE SAND (30%), MEDIUM SAND (30%), COARSE SAND (20%); CLAY (30%) BROWN, (10 YR 4/3) PLASTIC, GRAVEL UP TO 13mm (TRACES); CARBONATE (40%), QUARTZ (30%), VOLCANIC FRAGMENTS MODERATELY SORTED, SUBANGULAR TO SUBROUNDED (GRAVEL IS ANGULAR - LITHIC LIMESTONE FRAGMENTS); STRUCTURELESS, PLASTIC, STRONG ACID REACTION (280 - 290 ft)
-290 ft	19 min 3 sec.			CLAY SAND		SAND WITH CLAY; SAND DARK GREYISH BROWN (W) (10 YR 4/2); FINE SAND (30%) MEDIUM SAND (30%), COARSE SAND (10%), CLAY (30%) BROWN (W) (10 YR 4/3) PLASTIC; VOLCANIC FRAGMENTS (40%) CARBONATES (40%) FELDSPAR & QUARTZ (20%); WELL SORTED, SUBANGULAR TO SUBROUNDED (COARSE SAND ANGULAR, BIOMITIC LS. FRAGMENTS); STRUCTURELESS, PLASTIC, STRONG ACID REACTION (290 - 300 ft)
-300 ft	26 min 48 sec.			SAND		SAND - BROWN (W) (10 YR 4/2); COARSE SAND (30%), MEDIUM SAND (30%), FINE SAND (10%) CLAY (20%) - WHITE (W) (10 YR 8/1) PLASTIC; CARBONATE (BIOMITIC LIMESTONE) VOLCANIC FRAGMENTS (30%), QUARTZ & FELDSPAR (30%); MODERATELY SORTED, ANGULAR, STRUCTURELESS; PLASTIC, STRONG ACID REACTION (300 - 310 ft)
-310 ft	21 min 16 sec.			SAND		SAND - DARK GREYISH BROWN (W) (10 YR 4/2); COARSE SAND (70%), MEDIUM SAND (20%), GRAVEL UP TO 12mm (10%); CARBONATE (70%), VOLCANIC FRAGMENTS (20%), QUARTZ (TRACE WHITE CLAY); POORLY SORTED, ANGULAR TO SUBROUNDED; STRUCTURELESS; STRONG ACID REACTION. (310 - 320 ft)
-320 ft						

# LOG OF BOREHOLE

BOREHOLE CV-I-Q 7  
PAGE 5 OF 6

LOC. or COORDS. 7N-63-E-15  
CAVE VALLEY - NEVADA  
GROUND ELEV. \_\_\_\_\_  
TOTAL DEPTH 446 - ft  
BOREHOLE DIAM. \_\_\_\_\_

DRILLER K F WESTERN  
Drilling  
PICK SMITH  
RIG IR - TH 60  
BIT(S) \_\_\_\_\_  
FLUID \_\_\_\_\_

START DATE 8-23-80 FINISH DATE 8-30-80  
TIME \_\_\_\_\_  
GEOPHYS. LOG YES NO  
HOW LEFT UNRESTORED

LOCATION CAVE VALLEY NEVADA  
LOGGED BY K. BLOSE  
PROJECT INTERMEDIATE AQUIFER PROGRAM  
MX - PROJECT FY-80

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT O (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
-320 ft	14 min 52 sec			SAND WITH CLAY		SAND WITH CLAY - BROWN (W) (10 YR 4/2); COARSE SAND (30%), MEDIUM SAND (20%), FINE SAND (20%), WHITE CLAY (30%) (10 YR 8/1) MODERATELY PLASTIC; CARBONATE (50%), VOLCANIC FRAGMENTS (25%), QUARTZ (25%); MODERATELY SORTED SUBANGULAR, PLASTIC, STRUCTURELESS, STRONG ACID REACTION (320 - 330 ft)
-330 ft	34 min 21 sec			SAND		SAND - DARK GREYISH BROWN (W), (10 YR 4/2); COARSE SAND (50%), MEDIUM SAND (30%), FINE SAND (20%); CARBONATES (50%), VOLCANIC FRAGMENTS (30%) QUARTZ, FELDSPAR (20%); MODERATELY SORTED, ANGULAR TO SUBANGULAR STRUCTURELESS, STRONG ACID REACTION. (330 - 340 ft)
-340 ft	40 min 8 sec			SAND		SAND - DARK GREYISH BROWN (W) (10 YR 4/2); COARSE SAND (50%), MEDIUM SAND (50%); CARBONATE (LIMESTONE W/ FOSSILS?) (70%); VOLCANIC FRAGMENTS (20%), QUARTZ (10%); WHITE CLAY (TRACES); WELL SORTED, ANGULAR TO SUBANGULAR; STRUCTURELESS; STRONG ACID REACTION. (340 - 350 ft)
-350 ft	41 min 15 sec			SAND		SAND - DARK GREYISH BROWN (W) (10 YR 4/2); COARSE SAND (70%) MEDIUM SAND (20%), FINE SAND (10%); CARBONATES (70%); VOLCANIC FRAGMENTS (20%); QUARTZ, FELDSPAR (10%); WELL SORTED, ANGULAR TO SUBANGULAR STRUCTURELESS, STRONG ACID REACTION. (350 - 360 ft)
-360 ft	55 min 20 sec			SAND		SAND SAME AS ABOVE (350 - 360 foot)
-370 ft	45 min 3 sec					BED ROCK - GRAY (W) (2.5 YR NG), ANGULAR CHIPS OF LIMESTONE
-380 ft	38 min 21 sec					BED ROCK - SAME AS ABOVE (370 - 380 foot)
-390 ft	55 min 45 sec					BED ROCK - SAME AS ABOVE (380 - 390 foot)
-400 ft						

LOG. or COORDS. 7N-63-E-15  
CAVE VALLEY - NEVADA  
 GROUND ELEV. \_\_\_\_\_  
 TOTAL DEPTH 446-ft  
 BOREHOLE DIAM. \_\_\_\_\_

DRILLER K & B WESTERN  
 DRILLING. \_\_\_\_\_  
PICK SMITH  
 RIG IR - TH - 60  
 BIT(S) \_\_\_\_\_  
 FLUID \_\_\_\_\_

START DATE 8-23-80 FINISH 8-30-80  
 TIME \_\_\_\_\_  
 GEOPHYS. LOG  YES  NO  
 HOW LEFT UNRESTORED

LOCATION CAVE VALLEY, NEVADA  
 LOGGED BY K. BLOSE  
 PROJECT INTECME DIOTE A QUIEFEC PROGRAM.  
MX PROJECT FY - 80

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM. BOL.	DESCRIPTION and COMMENTS
400 ft	66 min 35 sec					BED ROCK - GRAY (W) (2.5 YR N 6), ANGULAR CHIPS of LIMESTONE
410 ft	76 min 51 sec					BED ROCK - SAME AS ABOVE ( 400 - 410 foot )
420 ft	54 min 44 sec					BED ROCK - SAME AS ABOVE ( 410 - 420 foot ).
430 ft	44 min 25 sec					BED ROCK - SAME AS ABOVE ( 420 - 430 foot )
440 ft	121 min 46 sec					BED ROCK - SAME AS ABOVE ( 430 - 440 ) T.D
450 ft						