



WELL NO PI-IT-1
 LOGGED BY _____
 DATE (S) _____

SHEET 1 OF _____ GL04846
 P. NO. 79-290-45
 PROJECT NAME MX-BMO

(C-26-17)-1000b ELEVATION _____
 GROUND LEVEL 5300'
 265/17W-1000b TOP OF CASING _____
PINE VALLEY UTAH

LOCATION OR COORDINATES

DRILLING SUMMARY

TOTAL DEPTH DRILLED 951'
 ROTARY _____ CORE _____
 DRILLING CONTRACTOR WRIGHT
 RIG(S) USED 0-40' BULLET AUGER. 40'-TD
FAILING 7500
 SIZE(S) AND TYPE(S) OF BITES 12 1/4 PILOT
17 1/2 REAMER
 DRILLING FLUID BENTONITE
 SAMPLING METHOD DISCHARGE PIPE
 SURFACE CASING 0-40' 22" DIA.
 COMMENTS (PROBLEMS, SHUTDOWNS, ETC)

CENTRALIZERS EVERY 100' BOTTOM UP.

WELL PACK 550-870
 PEA GRAVEL: 50-500, 520-550'
 CEMENT (MIX) 10:1 BENTONITE DEPTH (S) 0-40'
500-510', 870-890'
 BENTONITE SAND 40-50' 510-520'
 SANDS 880-890'
 SLURRY _____

DEVELOPMENT

TREMIE _____
 DEPTH _____
 TIME _____

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

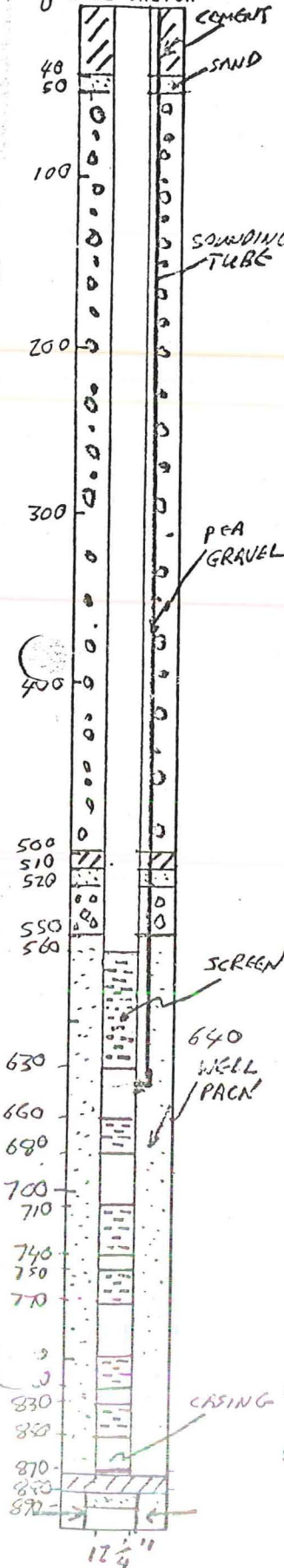
SCREEN STEEL STRING
 FROM 560 TO 630
 FROM 660 TO 680
 FROM 710 TO 740
 FROM 750 TO 770
 FROM 800 TO 820
 FROM 830 TO 850
 NO CASING
 SOUNDING TUBE TO 640'
 FROM _____ TO _____
 FROM _____ TO _____
 FROM _____ TO _____
 FROM _____ TO _____

CASING STEEL
 DIMENSIONS 10" ID x 690'
 SCREEN
 DIMENSIONS 10" ID x 180'
 SLOT SIZE 60

MISCELLANEOUS

STATIC WATER LEVEL IN THIS OBSERVATION WELL IS:

WELL SKETCH



LOCATION PINE VALLEY UTAH. 26-S-17W-10006
 LOGGED BY JED-MFH-
 PROJECT INTERMEDIATE ADJUTED PROGRAM
 MX REPORT EX-80

LOC. or COORDS. <u>26 S/17W-10006</u> <u>PINE VALLEY - UTAH.</u> GROUND ELEV. _____ TOTAL DEPTH <u>951 ft.</u> BOREHOLE DIAM. _____	DRILLER <u>WRIGHT DRILL CO.</u> Drilling: _____ <u>Ken Wright</u> RIG <u>00' to 40' BUCKET RUBBER - 40 TSD ROTARY</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>6-25-80</u></td> <td style="width: 50%;">FINISH DATE <u>7-12-80</u></td> </tr> <tr> <td>TIME _____</td> <td>GEOPHYS. LOG <u>YES</u> <u>NO</u></td> </tr> <tr> <td colspan="2">HOW LEFT _____</td> </tr> </table>	START DATE <u>6-25-80</u>	FINISH DATE <u>7-12-80</u>	TIME _____	GEOPHYS. LOG <u>YES</u> <u>NO</u>	HOW LEFT _____	
START DATE <u>6-25-80</u>	FINISH DATE <u>7-12-80</u>							
TIME _____	GEOPHYS. LOG <u>YES</u> <u>NO</u>							
HOW LEFT _____								

DEPTH	PENE. RATE	CIRC RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
00ft				CLAY SAND		CLAY SAND - YELLOWISH-BED (5YR 4/6), FINE SAND (60%), CLAY (40%), FELDSPAR (60%), QUARTZ (30%), MAFICS (10%); POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, SLIGHTLY PLASTIC, NON STICKY, SLIGHTLY CONSOLIDATED, STRONG ACID REACTION, UNIFORM. OTHER DATA NOT APPLICABLE (00-10 ft).
10ft				CONGLOMERATE W/ SAND		CONGLOMERATE W/SAND: YELLOWISH RED (5YR 4/6), COARSE SAND (60%), CONGLOMERATE UP TO 40mm (40%), QUARTZ (60%), FELDSPAR (30%), MAFICS (10%); POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, NON PLASTIC, NON STICKY, NON CONSOLIDATED, STRONG ACID REACTION, UNIFORM (10-20 ft).
20ft				CONGLOMERATE & SAND		CONGLOMERATE & SAND: LIGHT GRAY (5YR 7/1), CONGLOMERATE UP TO 5mm (50%), COARSE SAND (50%); CALCITE CEMENTED SANDSTONE CONGLOMERATE W/ COARSE SAND, QUARTZ (50%), FELDSPAR (20%), CALCITE (20%), MAFICS (10%); MODERATELY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, NON PLASTIC, NON STICKY, FAIRLY WELL CONSOLIDATED, VIOLENT ACID REACTION, UNIFORM (20-30 ft).
30ft						SAME AS ABOVE (20-30 foot).
40ft	?			SAND		SAND: DARK BROWN (7.5YR 3/1), MEDIUM SAND (70%), FINE SAND (70%), QUARTZ (40%), FELDSPAR (30%), CARBONATE CHIPS (20%), MAFICS (10%); WELL SORTED, SUBROUNDED, STRUCTURELESS; GOOD REACTION TO ACID; OTHER DATA NOT APPLICABLE (NOT REPRESENTATIVE SAMPLE - NRS) (40-50 ft).
50ft	4mm 55 sec			SAND		SAND: SAME AS ABOVE (40-50 foot) - NRS.
60ft	5mm 35 sec			SAND		SAND: DARK BROWN (7.5YR 3/1), FINE SAND (80%), MEDIUM SAND (20%), QUARTZ (35%), ROCK FRAGMENTS (20%), FELDSPAR (25%), MAFIC (10%); MODERATELY WELL SORTED, LIGHT TO SUBROUNDED, STRUCTURELESS; MODERATE ACID REACTION; OTHER DATA NOT APPLICABLE (NRS) (60-70 ft).
70ft	5mm 46 sec			SAND		SAND: DARK YELLOWISH BROWN (10YR 3/1), MEDIUM SAND (70%), COARSE SAND (30%), QUARTZ (35%), ROCK FRAGMENTS-CARBONATES (20%), FELDSPAR (25%), MAFICS (10%); MODERATELY SORTED, SUBANGULAR SAND; STRUCTURELESS; HIGH ACID REACTION; OTHER DATA NOT APPLICABLE (70-80 ft).
80ft	13mm 53 sec					

LOCATION PINE VALLEY UTAH-26-S-17 W-10 226

PROJECT INTERMEDIATE ADVISORY PROGRAM
IX - PROJECT - IX - 53

LOC. or COORDS. <u>26 S-17 W-10 226</u> <u>PINE VALLEY - UTAH</u> GROUND ELEV. _____ TOTAL DEPTH <u>951 ft.</u> BOREHOLE DIAM. _____	DRILLER <u>WRIGHT DRILL CO</u> Drilling: _____ <u>D. KUNTZ</u> RIG <u>Failing 2500</u> BIT(S) <u>TRICONE</u> FLUID <u>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>6-25-80</u></td> <td><u>7-12-80</u></td> </tr> <tr> <td>TIME _____</td> <td>_____</td> </tr> <tr> <td>GEOPHYS. LOG _____</td> <td>YES _____ NO _____</td> </tr> <tr> <td>HOW LEFT _____</td> <td>_____</td> </tr> </table>	START	FINISH	DATE <u>6-25-80</u>	<u>7-12-80</u>	TIME _____	_____	GEOPHYS. LOG _____	YES _____ NO _____	HOW LEFT _____	_____
START	FINISH											
DATE <u>6-25-80</u>	<u>7-12-80</u>											
TIME _____	_____											
GEOPHYS. LOG _____	YES _____ NO _____											
HOW LEFT _____	_____											

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
80 ft	38 min / 18 sec			SAND	80'	SAND: DARK YELLOWISH BROWN (10YR 3/4), FINE SAND (60%), MEDIUM SAND (40%), QUARTZ (35%), ROCK FRAGMENTS, CARBONATES (20%), FELDSPAR (25%), MAFICS (10%), MODERATELY SORTED, SUBANGULAR SAND; STRUCTURELESS; MIGHT ACID REACTION; OTHER DATA NOT APPLICABLE. (70-80 ft)
90 ft	14 min / 3 sec			SAND	90'	SAND: DARK YELLOWISH BROWN (10YR 3/4), MEDIUM SAND (80%), COARSE SAND (20%), QUARTZ (40%), FELDSPAR (30%), MAFICS (15%), ROCK FRAGMENTS (10%), CLAY (5%); MODERATELY SORTED, SUBROUNDED SAND; STRUCTURELESS, HIGH ACID REACTION; OTHER DATA NOT APPLICABLE (90-100 ft)
100 ft	17 min / 11 sec			SAND	100'	SAND: DARK BROWN (7.5 YR 3/4), FINE SAND (70%), MEDIUM SAND (30%), QUARTZ (40%), FELDSPAR (30%), MAFICS (15%), ROCKS FRAGMENTS OF QUARTZITE & CARBONATES (15%), SORTING NOT STATED; SUBROUNDED TO SUBANGULAR SAND; STRUCTURELESS; STRONG ACID REACTION; OTHER DATA NOT APPLICABLE. (100-110 ft)
110 ft	20 min / 50 sec			SAND	110'	SAND: SAME AS ABOVE (100-110 foot) BUT HAVE: 35% QUARTZ, 30% FELDSPAR, 10% MAFICS, 15% ROCK FRAGMENTS & 10% CLAY
120 ft	20 min / 53 sec			SAND	120'	SAND: DARK BROWN (7.5 YR 3/4) SAME AS ABOVE. (110-120 foot)
130 ft	51 min / 39 sec			SAND	130'	SAND W/ LITTLE GRAVEL: 1% REDDISH BROWN (W) (5YR 4/4), MEDIUM SAND (70%), COARSE SAND (10%), FINE SAND (10%), GRAVEL (10%), QUARTZ (53%), FELDSPAR (30%), MAFICS (10%), LITHIC FRAGMENTS (7%); POORLY SORTED, SUBANGULAR TO SUBROUNDED; STRUCTURELESS; MODERATE ACID REACTION; OTHER DATA NOT APPLICABLE. (130-140 ft)
140 ft	14 min / 49 sec			SAND	140'	SAND W/ SOME GRAVEL: DARK REDDISH BROWN (W) (5YR 3/4), MEDIUM SAND (50%), COARSE SAND (20%), FINE SAND (15%), GRAVEL (15%) - QUARTZ (45%), FELDSPAR (30%), MAFICS (10%), LITHIC FRAGMENTS (10%); POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, STRONG ACID REACTION; OTHER DATA NOT APPLICABLE. (140-150 ft)
150 ft	17 min / 26 sec			SAND	150'	SAND W/ LITTLE GRAVEL. SAME AS ABOVE. (140-150 foot) FINE SAND UP TO 25% & GRAVEL 2-4% TO 5%
160 ft					160'	

LOCATION PINE VALLEY - UTAH - 26-S-17W-10 226
 LOGGED BY TBD - MFA
 PROJECT INTERMEDIATE ARMYEC PROSPECT
 M.T. PROJECT - F1- 30

LOC. or COORDS. <u>26-S-17W-10 226</u> <u>PINE VALLEY UTAH</u>	DRILLER <u>WRIGHT-DRILL CO</u> DRILLING: _____ <u>D. KUNTZ</u>	START DATE <u>6-25-80</u>	FINISH DATE <u>7-12-80</u>
GROUND ELEV. _____ TOTAL DEPTH <u>951 ft.</u>	RIG <u>Failing 2500</u> BIT(S) <u>TRICONE</u>	TIME _____ GEOPHYS. LOG <u>YES</u> <input type="checkbox"/> NO <input type="checkbox"/>	HOW LEFT _____
BOREHOLE DIAM. _____ FLUID <u>BENTONITE</u>			

DEPTH	PENE RATE	CIRC RET	AIRLIFT LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
160 ft	15 min 49 sec				SAND		SAND W/ LITTLE GRAVEL: DARK REDDISH BROWN (W) (5YR 3/4), MEDIUM-SAND (50%), FINE-SAND (25%), COARSE-SAND (20%), GRAVEL (5%) - QUARTZ (30%), FELDSPAR (30%), LITHIC FRAGMENTS (15%), MAFICS (10%), CARBONATES (5%); POORLY SORTED, SUBANGULAR TO SUBROUNDED; STRUCTURELESS, STRONG ACID-REACTION; OTHER DATA NOT APPLICABLE. (160-170 ft).
170 ft	65 min 46 sec				SAND W/ GRAVEL		SAND W/ GRAVEL: DARK REDDISH BROWN (W) (5YR 3/4), MEDIUM SAND (50%), COARSE-SAND (15%), FINE SAND (5%), GRAVEL (30%) - QUARTZ (40%), FELDSPAR (30%), LITHIC FRAGMENTS (15%), MAFICS (10%), CARBONATES (5%); POORLY SORTED, SUBROUNDED TO ANGULAR, STRUCTURELESS, STRONG ACID-REACTION, OTHER DATA NOT APPLICABLE (170-180 ft).
180 ft	35 min 12 sec				SAND		SAND W/SOME GRAVEL: DARK REDDISH BROWN (W) (5YR 3/4), MEDIUM SAND (50%), FINE SAND (25%), COARSE-SAND (10%), GRAVEL (15%) - QUARTZ (45%), FELDSPAR (20%), MAFICS (10%), LITHIC FRAGMENTS (10%), CARBONATE (5%); POORLY SORTED, SUBANGULAR TO SUBROUNDED; GRAVEL IS ANGULAR, STRUCTURELESS, STRONG ACID-REACTION; OTHER DATA NOT APPLICABLE. (180-190 ft).
190 ft	70 min 65 sec				SAND		SAND W/SOME GRAVEL - SAME AS ABOVE (180-190 feet).
200 ft	82 min 28 sec				SAND		SAND W/SOME GRAVEL: DARK REDDISH BROWN (W) (5YR 3/4), MEDIUM-SAND (40%), FINE SAND (20%), COARSE SAND (20%), FINE GRAVEL (20%) - FELDSPAR (45%), QUARTZ (35%), MAFICS (10%), LITHIC FRAGMENTS (5%), GRAY/WHITE CLAY (5%); MODERATELY SORTED, SUBROUNDED, STRUCTURELESS, POOR REACTION TO ACID; OTHER DATA NOT APPLICABLE. (200-210 ft).
210 ft	69 min 47 sec				SAND		SAND: DARK REDDISH BROWN (W) (5YR 3/4), FINE-SAND (70%), MEDIUM-SAND (30%), QUARTZ (35%), FELDSPAR (30%), MAFICS (5%), LITHIC FRAGMENTS (5%), CLAY (5%); MODERATELY SORTED, SUBANGULAR SAND; STRUCTURELESS, POOR ACID-REACT. REACT.; OTHER DATA NOT APPLICABLE. (210-220 ft).
220 ft	49 min 36 sec				SAND		CLAYS: DARK REDDISH BROWN (W) (5YR 2/4); FINE SAND (90%), MEDIUM-SAND (3%), COARSE SAND (3%), FELDSPAR (40%), QUARTZ (35%), LITHIC FRAGMENTS (15%), MAFICS (5%), GRAY-CLAY (5%); MODERATELY SORTED, SUBROUNDED SAND; STRUCTURELESS; POOR ACID-REACTION; OTHER DATA NOT APPLICABLE (220-230 ft).
230 ft	36 min 34 sec				SAND		SAND: REDDISH-BROWN (W) (5YR 4/2); FINE SAND (80%), MEDIUM SAND (10%), COARSE SAND (10%) - QUARTZ (45%), FELDSPAR (25%), LIGHT GRAY CLAY (15%), LITHIC FRAGMENTS (10%), MAFICS (5%); STRUCTURELESS, POOR ACID-REACTION; OTHER DATA NOT APPLICABLE (230-240 ft).
240 ft							

LOCATION PINE VALLEY - UTAH 26-S-17 W-10 826.
LOGGED BY TED - NPH.

PROJECT INTEGRATED ADVERSE PROGRAM.
NO. PROJECT - 11 - 80

LOC. or COORDS. <u>26-S-17 W-10 826.</u> <u>PINE VALLEY UTAH.</u> GROUND ELEV. _____ TOTAL DEPTH <u>951 ft.</u> BOREHOLE DIAM. _____	DRILLER <u>WRIGHT Drill. Co.</u> Drilling: _____ <u>D. KUNTZ.</u> RIG <u>falling 2500</u> BIT(S) <u>TRICONE.</u> FLUID <u>BENTONITE.</u>	START DATE <u>6-25-80</u> FINISH DATE <u>7-12-80</u> TIME _____ GEOPHYS. LOG <u>YES</u> <u>NO</u> HOW LEFT _____
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DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM BOL	DESCRIPTION and COMMENTS
240 ft	35 min 49 sec			SAND		SAND: REDDISH BROWN (W) (5YR 4/3); FINE SAND (70%), MEDIUM SAND (20%), COARSE SAND (10%) - QUARTZ (40%), FELDSPAR (35%), LITHIC FRAGMENTS (10%), GRAY WHITE-CLAY (10%), MAFICS (5%); POORLY SORTED, SUBROUNDED WITH SUBANGULAR COARSE SAND; STRUCTURELESS; POOR ACID-REACTION, OTHER DATA NOT APPLICABLE. (240-250 ft).
250 ft	37 min 30 sec			SAND		SAND: REDDISH BROWN (W) (5YR 4/3); FINE SAND (60%), MEDIUM SAND (40%) - QUARTZ (45%), FELDSPAR (40%), MAFICS (5%), LITHIC FRAGMENTS (5%), GRAY-WHITE-CLAY (5%); MODERATELY SORTED, SUBROUNDED SAND; STRUCTURELESS; POOR ACID-REACTION; OTHER DATA NOT APPLICABLE. (250-260 ft).
260 ft	58 min 20 sec			SAND		SAND REDDISH BROWN (5YR 4/3), SAME AS ABOVE, EXCEPT: 30% QUARTZ, 45% FELDSPAR, 10% LITHIC FRAGMENTS, 10% RED CLAY & 5% MAFICS.
270 ft	32 min 20 sec			SAND		SAND: REDDISH BROWN (W) (5YR 4/3); FINE SAND (60%), MEDIUM SAND (40%) - QUARTZ (40%), FELDSPAR (35%), LITHIC FRAGMENTS (10%); GRAY-WHITE-CLAY (10%) MAFICS (5%); MODERATELY SORTED, SUBANGULAR TO SUBROUNDED SAND; STRUCTURELESS; MODERATE ACID-REACTION, OTHER DATA NOT APPLICABLE. (270-280 ft).
280 ft	60 min 23 sec			SAND		SAND W/SOME CLAY: DARK REDDISH BROWN (W) (5YR 2/4); MEDIUM SAND (65%), FINE SAND (25%), COARSE SAND (5%), CLAY (15%) - QUARTZ (40%), FELDSPAR (25%), CLAY (15%), MAFICS (10%), LITHIC FRAGMENTS (10%); POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, STICKY; STRONG ACID-REACTION. (280-290 ft).
290 ft	58 min 42 sec			SAND		SAND W/SOME CLAY; SAME AS ABOVE (280-290 ft) EXCEPT CLAY CONTENT INCREASES TO 20%.
300 ft	47 min 51 sec			SAND		SAND W/SOME CLAY: BROWN (W) (7.5 YR 4/4); FINE SAND (45%), MEDIUM SAND (30%), COARSE SAND (5%), CLAY (20%) - QUARTZ (40%), FELDSPAR (25%), CLAY (20%), MAFICS (10%), LITHIC FRAGMENTS (5%); POORLY SORTED, SUBANGULAR TO SUBROUNDED; STRUCTURELESS, STRONG ACID-REACTION; OTHER DATA NOT STATED. (300-310 ft).
310 ft	21 min 42 sec			SAND WITH GRAVEL		SAND W/ GRAVEL: BROWN (W) (7.5 YR 5/4); COARSE SAND (20%), MEDIUM SAND (20%), FINE SAND (15%), GRAVEL (25%) & CLAY (10%) - QUARTZ (50%), FELDSPAR (20%), MAFICS (10%), LITHIC FRAGMENTS (10%), CLAY (10%); POORLY SORTED, SUBANGULAR TO SUBROUNDED; STRONG ACID-REACTION; OTHER DATA NOT STATED. (310-320 ft).
320 ft						

LOCATION Pine Valley - UTAH - 26-5-17 W - 10 006
 LOGGED BY J.B.D. - MEH

PROJECT INTERMEDIATE ADJUSTED PIPES
 1/2" HOPECT + FY - 50

LOC. or COORDS. <u>26-5-17 W - 10 006</u> <u>Pine Valley UTAH</u>				DRILLER <u>WRIGHT DRILL CO</u> <u>Drilling.</u>		START DATE <u>6-25-80</u>	FINISH DATE <u>7-12-80</u>
GROUND ELEV. _____				ROB. JACKSON		TIME _____	
TOTAL DEPTH <u>951 ft</u>				RIG <u>Feiling: 2500</u>		GEOPHYS. LOG <u>YES</u> <u>NO</u>	
BOREHOLE DIAM. _____				BIT(S) <u>TRICONE</u>		HOW LEFT _____	
FLUID <u>BEATONITE</u>							
DEPTH	PENE RATE	CIRC REC LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS	
320 ft	377mm 33sec			SAND		SAND w/SOME clay: BROWN (w) (7.5 YR 4/4), FINE-SAND (45%), MEDIUM SAND (30%), COARSE SAND (5%), CLAY (20%), QUARTZ (40%), FELDSPAR (25%), clay (20%), MAFICS (10%), LITHIC FRAGMENTS (5%), POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, SLIGHTLY STICKY, MODERATE ACID-REACTIONS, OTHER DATA NOT STATED. (320 - 330 ft).	
330 ft	21mm 57sec			CLAYED SAND WITH GRAVEL		CLAYED SAND w/GRAVEL: DARK BROWN (w) (7.5 YR 3/4), MEDIUM SAND (25%), COARSE SAND (20%), FINE SAND (15%), CLAY (20%), GRAVEL (20%) - QUARTZ (10%), FELDSPAR (10%), MAFICS (10%), LITHIC FRAGMENTS (10%), POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, MODERATE ACID-REACTION, OTHER DATA NOT STATED. (330 - 340 ft).	
340 ft	46mm 17sec			SAND		SAND w/SOME clay: DARK REDDISH BROWN (w) (5YR 3/4), FINE-SAND (40%), MEDIUM (40%), COARSE SAND (5%), CLAY (15%) - QUARTZ (45%), FELDSPAR (25%), CLAY (15%), MAFICS (10%), LITHIC FRAGMENTS (5%), POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, WEAK ACID-REACTION. OTHER DATA NOT STATED. (340 - 350 ft)	
350 ft	36mm 29sec			SAND		SAND w/SOME clay: SAME AS ABOVE (340-350 ft) EXCEPT COARSE SAND FRACTION INCREASED TO 10% & LITHIC FRAGMENT UP TO 10%.	
360 ft	35mm 57sec			SAND		SAND w/ SOME clay & GRAVEL: REDDISH BROWN (w) (5YR 4/4), MEDIUM SAND (40%), COARSE SAND (20%), FINE SAND (20%), CLAY (10%), GRAVEL (10%) - QUARTZ (35%), FELDSPAR (20%), CLAY (15%), CARBONATE (15%), MAFICS (10%), LITHIC FRAGMENTS (5%), POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, MODERATE TO ACID-REACTIONS. OTHER DATA NOT STATED (360 - 370 ft).	
370 ft	21mm 21sec			SAND		SAND w/SOME clay: REDDISH BROWN (w) (5YR 4/4), MEDIUM SAND (50%), FINE-SAND (35%), COARSE SAND (5%), CLAY (15%) - QUARTZ (45%), FELDSPAR (20%), CLAY (15%), MAFICS (10%), LITHIC FRAGMENTS (10%), POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, MODERATE TO STRONG ACID-REACTION. OTHER DATA NOT STATED. (370 - 380 ft).	
380 ft	26mm 22sec			CLAYED SAND WITH GRAVEL		CLAYED SAND w/GRAVEL: BROWN (w) (7.5 YR 4/4), FINE SAND (35%), MEDIUM SAND (20%), COARSE SAND (15%), CLAY (20%), GRAVEL (10%) - QUARTZ (40%), FELDSPAR (20%), MAFICS (10%), LITHIC FRAGMENTS (10%), CLAY (20%); POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS, MODERATE ACID-REACTION. OTHER DATA NOT STATED. (380 - 390 ft).	
390 ft	22mm 51sec			CLAY SAND		CLAY SAND: REDDISH BROWN (w) (5YR 4/3), FINE SAND (40%), MEDIUM SAND (25%), COARSE SAND (5%), CLAY (25%) - QUARTZ (35%), CARBONATE (15%), FELDSPAR (15%), MAFICS (5%), LITHIC FRAGMENTS (5%), CLAY (20%), POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS WEAK ACID-REACTION, OTHER DATA NOT STATED (390 - 400 ft).	
400 ft							

LOCATION Pine Valley, UTAH - 26-5-17W-10 226
 LOGGED BY JED - M.F.H.
 PROJECT INTERMEDIATE - LAUFEC - PROGRAM
 H.C. PROJECT - 77-83

LOC. or COORDS. <u>26-5-17W-10 226</u> <u>PINE VALLEY UTAH</u>	DRILLER <u>WRIGHT Drill Co.</u> Drilling: <u>Bob JACKSON</u>	START DATE <u>6-25-80</u>	FINISH DATE <u>7-12-80</u>
GROUND ELEV. _____ TOTAL DEPTH <u>951 ft.</u> BOREHOLE DIAM. _____	RIG <u>falling 2500</u> BIT(S) <u>TRICONE</u> FLUID <u>BENTONITE</u>	TIME _____ GEOPHYS. LOG <u>YES</u> <u>NO</u>	HOW LEFT _____

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT O (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
400 ft.	28 min / 14 sec			SAND		SAND w/ SOME CLAY: BROWN (W) (7.5 YR 5/4); MEDIUM SAND (45%), FINE SAND (40%); CLAY (15%) - CONSTITUENTS: QUARTZ (25%), FELDSPAR (25%), CLAY (15%), CARBONATE (10%), MAFICS (10%), LITHIC FRAGMENTS (10%). POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS; WEAK ACID-REACTION; OTHER DATA NOT STATED. (400-410 ft.)
410 ft.	39 min / 01 sec			SAND		SAND w/ SOME CLAY: REDDISH BROWN (W) (5 YR 4/4); MEDIUM SAND (50%), FINE SAND (25%), COARSE SAND (15%), CLAY (10%) - CONSTITUENTS: QUARTZ (25%), FELDSPAR (20%), CARBONATES (15%), LITHIC FRAGMENTS (15%), CLAY (10%), MAFICS (10%). POORLY SORTED, SUBANGULAR TO SUBROUNDED, LARGER LITHIC FRAGMENTS ARE ANGULAR; STRUCTURELESS; MODERATE ACID-REACTION; OTHER DATA NOT STATED. (410-420 ft.)
420 ft.	23 min / 8 sec			SAND		SAND w/ SOME CLAY: GRAYISH BROWN (W) (10 YR 5/2); FINE SAND (50%), MEDIUM SAND (30%), CLAY (20%) - CONSTITUENTS: FELDSPAR (35%), QUARTZ (30%), BROWN CLAY (20%), LITHIC FRAGMENTS (10%), MAFICS (5%); MODERATELY SORTED, SUBANGULAR TO SUBROUNDED SAND; STRUCTURELESS; SLIGHT ACID-REACTION; OTHER DATA NOT APPLICABLE. (420-430 ft.)
430 ft.	25 min / 55 sec			CLAY SAND		CLAY SAND: GRAYISH BROWN (W) (10 YR 5/2); FINE SAND (50%), MEDIUM SAND (25%), BROWN CLAY (25%) - CONSTITUENTS: QUARTZ (25%), FELDSPAR (30%), CLAY (25%), MAFICS (5%), LITHIC FRAGMENTS (5%); MODERATELY SORTED, SUBANGULAR TO SUBROUNDED SAND; STRUCTURELESS; VERY SLIGHT ACID-REACTION; OTHER DATA NOT STATED. (430-440 ft.)
440 ft.	20 min / 3 sec			SAND		SAND w/ SOME CLAY: GRAYISH BROWN (W) (10 YR 5/2); FINE SAND (50%), MEDIUM SAND (23%), LIGHT BROWN CLAY (17%) - CONSTITUENTS: QUARTZ (30%), FELDSPAR (30%), LITHIC FRAGMENTS (20%), CLAY (17%), MAFICS (3%); MODERATELY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS; MODERATE ACID-REACTION; OTHER DATA NOT STATED. (440-450 ft.)
450 ft.	24 min / 15 sec			CLAY SAND		CLAY SAND: GRAYISH BROWN (W) (10 YR 5/2); FINE SAND (40%), MEDIUM SAND (20%), COARSE SAND (15%), BROWN CLAY (25%) - CONSTITUENTS: QUARTZ (30%), FELDSPAR (25%), LITHIC FRAGMENTS (15%), CLAY (25%), MAFICS (5%); POORLY SORTED, SUBANGULAR SAND, STRUCTURELESS, SOME MILD RAILS ARE BRITTLE, OTHERS ARE PLASTIC, POOR ACID REACTION. (450-460 ft.)
460 ft.	53 min / 15 sec			CLAY SAND		CLAY SAND: BROWN (W) (10 YR 5/2); FINE SAND (50%), MEDIUM SAND (20%), COARSE SAND (5%), WHITE GRAY CLAY (30%) - CONSTITUENTS: LITHIC FRAGMENTS (25%), QUARTZ (20%), FELDSPAR (20%), MAFICS (5%), CLAY (30%); POORLY SORTED, SUBANGULAR TO SUBROUNDED SAND; STRUCTURELESS; MILD ACID-REACTION, WHITE 1/4" FLIPS OF DOLOMITE ALSO PRESENT, OTHER DATA NOT STATED (460-470 ft.)
470 ft.	27 min / 53 sec			CLAY SAND		CLAY SAND: BROWN (W) (10 YR 5/2); FINE SAND (40%), MEDIUM SAND (30%), COARSE SAND (15%), WHITE TO BROWN CLAY (20%) - CONSTITUENTS: LITHIC FRAGMENTS - MAINLY DOLOMITE (40%), QUARTZ (20%), FELDSPAR (15%), CLAY (20%); POORLY SORTED, SUBANGULAR TO SUBROUNDED SAND, STRUCTURELESS; GOOD ACID-REACTION; OTHER DATA NOT STATED. (470-480 ft.)
480 ft.						

LOCATION Pine Valley - UTON - 26-S-17W-10 006
LOGGED BY JBD - MEH.

PROJECT INTECHMEDITE - AQUIFER PROSPECT
44-PROJECT - 24-90

LOC. or COORDS. <u>26-S-17W-10 006</u> <u>PINE VALLEY UTAH</u>	DRILLER <u>WRIGHT DRILL CO</u> Drilling: _____ <u>BOB JACKSON</u>	START DATE <u>6-25-80</u> FINISH DATE <u>7-12-80</u>
GROUND ELEV. _____ TOTAL DEPTH <u>951 ft.</u> BOREHOLE DIAM. _____	RIG <u>Failing: 2500</u> BIT(S) <u>TRICONITE</u> FLUID <u>BENTONITE</u>	TIME _____ GEOPHYS. LOG <u>YES</u> <u>NO</u> HOW LEFT _____

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT O (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
480 ft.	26mm 29Sec			Clay SAND		CLAY SAND: BROWN (W) (10YR 5/2); FINE SAND (40%), MEDIUM SAND (30%), COARSE SAND (10%), WHITE TO BROWN CLAY (20%) - CONSTITUENTS: LITHIC FRAGMENTS MAINLY DOLOMITE (40%), QUARTZ (20%), FELDSPAR (15%), CLAY (20%); POORLY SORTED, SUBANGULAR TO SUBROUNDED SAND; STRUCTURELESS, GOOD ACID REACTION, OTHER DATA NOT STATED (480 - 490 ft).
490 ft.	62mm 9Secs.			CLAY SAND		CLAY SAND: BROWN (W) (10YR 5/2), FINE SAND (60%), MEDIUM SAND (30%), BROWN CLAY (20%), CONSTITUENTS: LITHIC FRAGMENTS (40%), QUARTZ (20%), FELDSPAR (15%), MAFICS (5%), CLAY (20%); MODERATELY SORTED, SUBANGULAR TO SUBROUNDED SAND, STRUCTURELESS, SLIGHT ACID-REACTIONS, OTHER DATA NOT STATED. (490 - 500 ft).
500 ft.	45mm 26Sec			Clay SAND		CLAY SAND: BROWN (W) (10YR 5/3), FINE GRAIN SAND (95%), MEDIUM SAND (30%), BROWN CLAY (25%) - CONSTITUENTS: LITHIC FRAGMENTS 25% CLAY 25%, FELDSPAR 20%, MAFICS 5%; MODERATELY SORTED, SUBROUND SAND, STRUCTURELESS, SLIGHT ACID-REACTIONS, OTHER DATA NOT STATED. (500 - 510 ft).
510 ft.	40mm 20Sec.			Clay SAND		CLAY SAND: BROWN (W) (10YR 5/3), SAME AS ABOVE (500 - 510 feet)
520 ft.	54mm 41Sec.			CLAY SAND		CLAY SAND: PALE BROWN (W) (10YR 4/3), FINE SAND (40%), MEDIUM SAND (20%), COARSE SAND (10%), GRAY-BROWN CLAY (30%) - CONSTITUENTS: QUARTZ (25%), FELDSPAR (20%), LITHIC FRAGMENTS (20%), MAFICS (5%), CLAY (30%); POORLY SORTED, ANGULAR TO SUBROUNDED SAND; STRUCTURELESS, CLAY IS PLASTIC, SLIGHT ACID-REACTION; OTHER DATA NOT STATED. (520, 530 ft).
530 ft.	47mm 53Sec			SAND		SAND w/ some clay: PALE BROWN (W) (10YR 4/3), FINE SAND (50%), MEDIUM SAND (20%), COARSE SAND (10%), BROWN-GRAY CLAY (16%) - CONSTITUENTS: LITHIC FRAGMENTS (35%), FELDSPAR (25%), CLAY (15%), MAFICS (3%); POORLY SORTED, SUBROUNDED SAND, STRUCTURELESS, CLAY IS PLASTIC, VERY SLIGHT ACID-REACTION, OTHER DATA NOT STATED. (530 - 540 ft).
540 ft.	43mm 44Sec			CLAY SAND		CLAY SAND: PALE BROWN (W) (10YR 6/2), FINE SAND (55%), MEDIUM SAND (20%), BROWN GRAY CLAY (25%) - CONSTITUENTS: LITHIC FRAGMENTS - VOLCANIC & CRYSTAL MAFICS (35%), FELDSPAR (25%), MAFICS (5%), CLAY (25%); MODERATELY SORTED, SUBROUNDED SAND; STRUCTURELESS, CLAY IS PLASTIC, MODERATE ACID REACTION; OTHER DATA NOT APPLICABLE (540 - 550 ft).
550 ft.	25mm 46Sec			Clay SAND		CLAY SAND: BROWN (W) (10YR 5/3), FINE GRAIN SAND (40%), MEDIUM SAND (20%), COARSE SAND (10%), WHITE-GRAY BROWN CLAY (30%) - CONSTITUENTS: LITHIC FRAGMENTS - VOLCANIC (20%), QUARTZ (25%), FELDSPAR (15%), CLAY (30%), MAFICS (10%); POORLY SORTED, SUBROUNDED TO SUBANGULAR SAND, STRUCTURELESS, CLAY IS PLASTIC, VERY SLIGHT ACID-REACTION. (550 - 560 ft).
560 ft.						

LOCATION PINE VALLEY-UTAH-26-S-17W-10886
 LOGGED BY JBD - M.F.H.

PROJECT INTERMEDIATE ADULT EDUC PROGRAM
MT-PROJECT - FY-80

LOC. or COORDS. <u>26-S-17W-10886</u> <u>PINE VALLEY UTAH</u>	DRILLER <u>WEIGHT DRILL CO.</u> DRILLING: <u>B. JACKSON/D. KUNTZ.</u>	START DATE <u>6-25-80</u>	FINISH DATE <u>7-12-80</u>
GROUND ELEV. _____	RIG <u>TRAILING 2500</u>	TIME _____	GEOPHYS. LOG <u>YES</u> <u>NO</u>
TOTAL DEPTH <u>951 ft</u>	BIT(S) <u>TRICONITE</u>	HOW LEFT _____	
BOREHOLE DIAM. _____	FLUID <u>BENTONITE</u>		

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT O (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
560 ft	23 min 18 sec			CLAY SAND		CLAY SAND: WEAK RED. (W) (2.5 YR 5/2); FINE SAND (45%), MEDIUM SAND (20%), COARSE SAND (10%), GRAY-WHITE & BROWN CLAY (25%); CONSTITUENTS: LITHIC FRAGMENTS - DOLOMITE & VOLCANICS (90%), CLAY (25%), QUARTZ (20%), FELDSPAR (1%), POORLY SORTED, SUB-ROUNDED TO SUB-ANGULAR; STRUCTURELESS, CLAY IS PLASTIC, MODERATE ACID-REACTION. OTHER DATA NOT STATED. (560-570 ft).
570 ft	36 min 36 sec			CLAY SAND		CLAY SAND WEAK RED (W) (2.5 YR 5/2) SAME AS ABOVE (560-570 ft)
580 ft	42 min 41 sec			CLAY SAND		CLAY SAND: REDDISH BROWN (W) (5 YR 4/3); FINE SAND (40%), MEDIUM SAND (35%), COARSE SAND (5%), GRAY CLAY (20%); CONSTITUENTS: QUARTZ (30%), CLAY (20%), FELDSPAR (15%), LITHIC FRAGMENTS (10%), CARBONATE (1%), MICA (10%), POORLY SORTED SUB-ROUNDED TO SUB-ANGULAR; STRUCTURELESS; CLAY IS STICKY & PLASTIC; WEAK ACID REACTION. (580-590 ft).
590 ft	29 min 35 sec			CLAY SAND		CLAY SAND REDDISH BROWN - SAME AS ABOVE (580-590 ft)
600 ft	41 min 28 sec			CLAY SAND		CLAY SAND: BROWN (W) (7.5 YR 4/4); FINE SAND (50%), MEDIUM SAND (25%), CLAY (25%); CONSTITUENTS: QUARTZ (25%), CLAY (25%), CARBONATE (20%), FELDSPAR (15%), MICA (10%), LITHIC FRAGMENTS (5%); MODERATELY SORTED; SUB-ANGULAR TO SUB-ROUNDED; STRUCTURELESS; STICKY, WEAK ACID-REACTION; OTHER DATA NOT STATED. (600-610 ft).
610 ft	36 min 45 sec			CLAY SAND		CLAY SAND: SAME AS ABOVE (600-610 ft) EXCEPT CLAY CONTENT INCREASED TO 30% & FINE SAND INCREASED ALSO.
620 ft	41 min 24 sec			CLAY SAND		CLAY SAND: LIGHT REDDISH BROWN (W) (5 YR 6/2); FINE SAND (50%), MEDIUM SAND (10%), CLAY (40%); CONSTITUENTS: CLAY (90%), CARBONATE (20%), QUARTZ (20%), FELDSPAR (10%), MICA (5%), LITHIC FRAGMENTS (5%); MODERATELY SORTED, SUB-ANGULAR TO SUB-ROUNDED; STRUCTURELESS, VERY STICKY, WEAK ACID-REACTION; OTHER DATA NOT STATED. (620-630 ft).
630 ft	41 min 30 sec			CLAY SAND		CLAY SAND: SAME AS ABOVE (620-630 ft), EXCEPT MEDIUM SAND INCREASED TO 20%, FINE SAND DECREASED TO 45% AND THE CLAY CONTENT DECREASED TO 35%.
640 ft						

LOCATION PINE VALLEY - UTAH - 26-S-17W-10 226
 LOGGED BY JED - MFH
 PROJECT INTERMEDIATE RECHARGE PROGRAM
 MX - PROJECT - FY - 90

LOC. or COORDS. <u>26-S-17W-10 226</u> <u>PINE VALLEY UTAH</u> GROUND ELEV. _____ TOTAL DEPTH <u>951 ft.</u> BOREHOLE DIAM. _____	DRILLER <u>WRIGHT Drill Co.</u> Drilling: _____ <u>B-JACKSON / D-KUNTZ</u> RIG <u>Drilling 2500</u> BIT(S) <u>TRICONITE</u> FLUID <u>BENTONITE</u>	START DATE <u>6-25-80</u> FINISH DATE <u>7-12-80</u> TIME _____ GEOPHYS. LOG <input type="checkbox"/> YES <input type="checkbox"/> NO HOW LEFT _____
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DEPTH	PENE RATE	CIRC RET	AIRLIFT LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM BOL	DESCRIPTION and COMMENTS
640 ft.	34mm 25Sec				CLAY SAND	●●●●●	CLAY SAND: BROWN (W) (7.5 YR 5/4); FINE SAND (40%), MEDIUM SAND (20%), COARSE SAND (10%), CLAY (30%); CONSTITUENTS: CLAY (30%), CARBONATES (20%), QUARTZ (20%), FELDSPAR (10%), MAFICS (10%), LITHIC FRAGMENTS (10%); POORLY SORTED, SUBANGULAR TO SUBANGULAR, STRUCTURELESS, STICKY, WEAK ACID-REACTIONS, OTHER DATA NOT STATED. (640-650 ft.)
650 ft.	30mm 16Sec				CLAY SAND	●●●●●	CLAY SAND: LIGHT BROWN (W) (7.5 YR 4/4); FINE SAND (40%), MEDIUM SAND (20%), CLAY (40%); CONSTITUENTS: CLAY 40%, QUARTZ 15%, CARBONATE 15%, FELDSPAR 10%, LITHIC FRAGMENTS (10%), MAFICS 10%; POORLY SORTED, SUBANGULAR TO SUBANGULAR, STRUCTURELESS, VERY STICKY, WEAK ACID-REACTION; (650-660 ft.)
660 ft.	42mm 26Sec				CLAY SAND	●●●●●	CLAY SAND: BROWN (W) (7.5 YR 5/4); FINE SAND (40%), MEDIUM SAND (25%) COARSE SAND (5%), CLAY (30%); CONSTITUENTS: CLAY (30%), QUARTZ (25%), FELDSPAR (10%), LITHIC FRAGMENTS (10%), CARBONATE (15%), MAFICS (10%); POORLY SORTED, SUBANGULAR TO SUBANGULAR, STRUCTURELESS, STICKY, NO ACID-REACTION. (660-670 ft.)
670 ft.	45mm 22Sec				CLAY SAND	●●●●●	CLAY SAND: REDDISH BROWN (W) (5YR 5/4); FINE SAND (40%), MEDIUM SAND 35%, COARSE SAND (5%), CLAY (20%); CONSTITUENTS: QUARTZ (35%), FELDSPAR (20%), CLAY (20%), CARBONATES (15%), MAFICS (10%), LITHIC FRAGMENTS (10%); POORLY SORTED, SUBANGULAR TO SUBANGULAR, STRUCTURELESS, WEAK ACID-REACTION. OTHER DATA NOT STATED (670-680 ft.)
680 ft.	25mm 07Sec				CLAY SAND	●●●●●	CLAY SAND - REDDISH BROWN - SOME SDRIVE (670-680 ft.)
690 ft.	27mm 11Sec				CLAY SAND	●●●●●	CLAY SAND: REDDISH BROWN (W) (5YR 5/4); MEDIUM SAND (45%), FINE SAND (35%), CLAY (20%); CONSTITUENTS: QUARTZ (30%), CARBONATE (20%) CLAY 20% FELDSPAR (15%), MAFICS (10%), LITHIC FRAGMENTS (5%); POORLY SORTED, SUBANGULAR TO SUBANGULAR, STRUCTURELESS; WEAK ACID-REACTION, OTHER DATA NOT STATED. (690-700 ft.)
700 ft.	28mm 54Sec				SAND	●●●●●	CANONICAL CLAY: REDDISH BROWN (W) (5YR 4/4); MEDIUM SAND (45%), FINE SAND (40%), CLAY (15%); CONSTITUENTS: QUARTZ (35%), FELDSPAR (20%), CARBONATE (15%), CLAY (15%), MAFICS (10%), LITHIC FRAGMENTS (5%); POORLY SORTED, SUBANGULAR TO SUBANGULAR, STRUCTURELESS, STICKY; WEAK ACID REACTION. OTHER DATA NOT STATED (700-710 ft.)
710 ft.	36mm 53Sec				SAND	●●●●●	SAND WITH CLAY REDDISH BROWN (W) SAME AS ABOVE (700-710 ft.)
720 ft.							

LOCATION PINE VALLEY, UTAH - 26-S-17W-10-886
 LOGGED BY F.E.D. - M.F.H.
 PROJECT IMMEDIATE AQUIFER DOBSON
 AX - PROJECT - FY - 80

LOC. or COORDS. <u>26-S-17W-10-886</u> <u>PINE VALLEY UTAH</u> GROUND ELEV. _____ TOTAL DEPTH <u>951 ft</u> BOREHOLE DIAM. _____	DRILLER <u>WRIGHT DRILL CO.</u> <u>Drilling:</u> <u>B. JACKSON</u> RIG <u>falling: 2500</u> BIT(S) <u>TRICONITE</u> FLUID <u>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>6-25-80</u></td> <td><u>7-12-80</u></td> </tr> <tr> <td>TIME _____</td> <td>_____</td> </tr> <tr> <td colspan="2">GEOPHYS. LOG <input type="checkbox"/> YES <input type="checkbox"/> NO</td> </tr> <tr> <td colspan="2">HOW LEFT _____</td> </tr> </table>	START	FINISH	DATE <u>6-25-80</u>	<u>7-12-80</u>	TIME _____	_____	GEOPHYS. LOG <input type="checkbox"/> YES <input type="checkbox"/> NO		HOW LEFT _____	
START	FINISH											
DATE <u>6-25-80</u>	<u>7-12-80</u>											
TIME _____	_____											
GEOPHYS. LOG <input type="checkbox"/> YES <input type="checkbox"/> NO												
HOW LEFT _____												

DEPTH	PENE RATE	CIRC RET	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
720 ft.	37 min 17 sec			CLAY SAND	720'	CLAY SAND: REDDISH BROWN (W) (5.4 YR 4/1); FINE SAND (45%), MEDIUM SAND (35%), CLAY (20%) - CONSTITUENTS: QUARTZ (35%), CLAY (20%), FELDSPAR (15%), CARBONATE (15%), MAFICS (10%), LITHIC FRAGMENTS (5%), POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS; STICKY, MODERATE ACID-REACTION; OTHER DATA NOT STATED. (720-730 ft).
730 ft.	18 min 19 sec			CLAY SAND	730'	CLAY SAND: REDDISH BROWN - SAME AS ABOVE (720-730 foot) EXCEPT CLAY INCREASED TO 25% AND MEDIUM SAND INCREASED TO 4%
740 ft.	46 min 08 sec			CLAY SAND	740'	CLAY SAND: BROWN (W) (7.5 YR 5/2), FINE SAND (50%), MEDIUM SAND (20%), TAN TO GRAY CLAY (30%) - CONSTITUENTS: QUARTZ (30%), FELDSPAR (20%), LITHIC FRAGMENTS - VOLCANICS (19%), MAFICS (1%), CLAY (30%); POORLY SORTED SAND, SUBROUNDED; STRUCTURELESS; CLAY IS PLASTIC; VERY SLIGHT ACID-REACTION; OTHER DATA NOT STATED. (740-750 ft).
750 ft.	59 min 14 sec			CLAY SAND	750'	CLAY SAND: BROWN (7.5 YR 5/2) - SAME AS ABOVE (740-750 foot)
760 ft.	18 min 22 sec			CLAY SAND	760'	CLAY SAND: LIGHT GRAY W (10 YR 7/1); FINE SAND (40%), MEDIUM SAND (20%), GRAY CLAY (40%) - CONSTITUENTS: QUARTZ (30%), FELDSPAR (15%), LITHIC FRAGMENTS - VOLCANICS (12%), MAFICS (3%), CLAY (40%); POORLY SORTED, SUBROUNDED SANDS, STRUCTURELESS; VERY SLIGHT ACID-REACTION; CLAY IS PLASTIC - OTHER DATA NOT STATED. (760-770 ft).
770 ft.	16 min 34 sec			CLAY SAND	770'	CLAY SAND: LIGHT GRAY (10 YR 7/1); FINE SAND (35%), MEDIUM SAND (20%), GRAY CLAY (45%) - CONSTITUENTS: QUARTZ (20%), FELDSPAR (15%), LITHIC FRAGMENTS - VOLCANICS (15%), CLAY (45%); SUBROUNDED, POORLY SORTED SAND, STRUCTURELESS; CLAY IS VERY PLASTIC; VERY SLIGHT ACID-REACTION; OTHER DATA NOT STATED. (770-780 ft).
780 ft.	30 min 01 sec			CLAY SAND	780'	CLAY SAND: LIGHT GRAY (10 YR 7/1), SAME AS ABOVE (770-780 foot)
790 ft.	27 min 30 sec			CLAY SAND	790'	CLAY SAND: LIGHT GRAY (W) (10 YR 7/1), CLAY (50%), FINE SAND (30%), MEDIUM SAND (20%); CONSTITUENTS: QUARTZ (20%), FELDSPAR (15%), LITHIC FRAGMENTS (12%), MAFICS (3%), GRAY CLAY (30%); SUBROUNDED TO SUBANGULAR, POORLY SORTED SAND, STRUCTURELESS; CLAY IS PLASTIC - OTHER DATA NOT STATED. (790-800 ft).
800'					800'	

LOCATION PINE VALLEY UTAH-26-S-17W-10306
 LOGGED BY JED - JFM
 PROJECT INTERMEDIATE Lignite PROGRAM
 AX - PROJECT: FY-80

LOC. or COORDS. <u>26-S-17W-10 006</u> <u>PINE VALLEY UTAH.</u>	DRILLER <u>WRIGHT DRILL CO.</u> Drilling: _____ <u>Bob Jackson</u>	START DATE <u>6-25-80</u>	FINISH DATE <u>7-12-80</u>
GROUND ELEV. _____ TOTAL DEPTH <u>951 ft</u> BOREHOLE DIAM. _____	RIG <u>Falling : 2500</u> BIT(S) <u>TRICONITE</u> FLUID <u>BENTO NITE</u>	TIME _____ GEOPHYS. LOG <u>YES</u> <u>NO</u> HOW LEFT _____	

DEPTH	PENE RATE	CIRC RET	AIRLIFT LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
800 ft	109 min 29 sec				SANDY CLAY		SANDY CLAY: LIGHT GRAY (10 YR 7/1), GRAY CLAY (55%), MEDIUM SAND (30%), FINE SAND (15%); CONSTITUENTS: QUARTZ (22%), FELDSPAR (15%), LITHIC FRAGMENTS-VOLCANICS & CARBONATES (7%), MAFICS (1%), GRAY CLAY (55%), SUBANGULAR TO SUBROUNDED, POORLY SORTED SAND; STRUCTURELESS, CLAY IS PLASTIC, GOOD ACID-REACTION. (800-810 ft)
810 ft	21 min 36 sec				SANDY CLAY		SANDY CLAY: LIGHT GRAY (10 YR 7/1) - SAME AS ABOVE (800-810 ft)
820 ft	18 min 32 sec				SANDY CLAY		SANDY CLAY: LIGHT GRAY (10 YR 7/1), GRAY CLAY (55%), MEDIUM SAND (30%), FINE SAND (15%); CONSTITUENTS: QUARTZ (25%), FELDSPAR (12%), LITHIC FRAGMENTS-CARBONATES (7%), MAFICS (1%), GRAY CLAY (55%); SUBANGULAR TO SUBROUNDED, POORLY SORTED SAND, STRUCTURELESS; GOOD ACID REACTION, CLAY IS PLASTIC. OTHER DATA NOT STATED. (820-830 ft)
830 ft	32 min 38 sec				SANDY CLAY		SANDY CLAY: LIGHT GRAY (10 YR 7/1) SAME AS ABOVE (820-830 ft)
840 ft	51 min 41 sec				SANDY CLAY		SANDY CLAY: LIGHT GRAY (10 YR 7/1) SAME AS ABOVE (830-840 ft)
850 ft	51 min 12 sec				SANDY CLAY		SANDY CLAY: LIGHT GRAY (10 YR 7/1), GRAY CLAY (60%), FINE SAND (20%), MEDIUM SAND (20%); CONSTITUENTS: QUARTZ (25%), FELDSPAR (12%), LITHIC FRAGMENTS-CARBONATES (7%), GRAY CLAY (55%); STRUCTURELESS; SUBANGULAR TO SUBROUNDED POORLY SORTED SAND; CLAY IS PLASTIC, GOOD ACID-REACTION (850-860 ft)
860 ft	49 min 21 sec				SANDY CLAY		SANDY CLAY: LIGHT GRAY (10 YR 7/1) SAME AS ABOVE (850-860 ft)
870 ft	19 min 5 sec				SANDY CLAY		SANDY CLAY: LIGHT GRAY (10 YR 7/1) SAME AS ABOVE (860-870 ft)
880 ft							

LOCATION Pine Valley - UTAH-26-S-17W-10 22b
 LOGGED BY JSD - M.F.H.

PROJECT INTERMEDIATE ADJUTER PROGRAM
 M.F.H. PROJECT - FY-80

LOC. or COORDS. <u>26-S-17W-10 22b</u>	DRILLER <u>WRIGHT Drill Co.</u>	START DATE <u>6-25-80</u>	FINISH DATE <u>7-13-80</u>
<u>PINE VALLEY UTAH</u>	Drilling: <u>DAVID KUNTZ.</u>	TIME _____	GEOPHYS. LOG <u>YES</u> <u>NO</u>
GROUND ELEV. _____	RIG <u>falling: 2500</u>	HOW LEFT _____	
TOTAL DEPTH <u>951 ft.</u>	BIT(S) <u>TRICONITE</u>		
BOREHOLE DIAM. _____	FLUID <u>BENTONITE</u>		

DEPTH	PENE RATE	CIRC RET	LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
880 ft	48 mm 7 sec				SANDY CLAY	880'	SANDY CLAY: LIGHT GRAY (W) (10YR 7/1), GRAY CLAY (70%), FINE GRAIN SAND (30%). CONSTITUENTS: QUARTZ (15%), FELDSPAR (10%), LITHIC FRAGMENTS-CARBONATES (4%), MAFICS (1%), CLAY (20%); SUBANGULAR TO SUBROUNDED, MODERATELY SORTED SAND, STRUCTURELESS; CLAY IS PLASTIC; MODERATE ACID-REACTION. OTHER DATA NOT STATED. (880-890 ft).
890 ft	37 mm 10.5 sec				SANDY CLAY	890'	SANDY CLAY: LIGHT GRAY (W) (10YR 7/1) SAME AS ABOVE (880-890 ft)
900 ft	40 mm 24 sec				SANDY CLAY	900'	SANDY CLAY: GRAY (W) (7.5 YR 6/1); CLAY (55%), FINE SAND (25%), MEDIUM SAND (20%). CONSTITUENTS: CLAY (55%), CARBONATE (25%), LITHIC FRAGMENTS (10%), QUARTZ (10%), FELDSPAR (8%), MAFICS (2%), SAND - POORLY SORTED, SUBANGULAR TO SUBROUNDED, STRUCTURELESS; CLAY VERY STICKY. OTHER DATA NOT STATED. (900-910 ft).
910 ft	33 mm 11 sec				SANDY CLAY	910'	SANDY CLAY: GRAY (W) (7.5 YR 6/1) - SAME AS ABOVE - EXCEPT MEDIUM SAND INCREASED TO 25%.
920 ft	74 mm 41.5 sec				SANDY CLAY	920'	SANDY CLAY: GRAY (W) (10YR 6/1), CLAY (60%), MEDIUM SAND (20%), FINE SAND (15%), COARSE SAND (5%); CONSTITUENTS: CLAY (60%), CARBONATE (15%), QUARTZ (10%), LITHIC FRAGMENTS (5%), FELDSPAR (5%), MAFICS (5%); POORLY SORTED, SUBANGULAR TO SUBROUNDED; STRUCTURELESS; CLAY IS STICKY; MODERATE ACID-REACTION; OTHER DATA NOT STATED. (920-930 ft).
930 ft	71 mm 34.5 sec				SANDY CLAY	930'	SANDY CLAY: GRAY (W) (10YR 6/1) SAME AS ABOVE (920-930 ft).
940 ft	127 mm 55 sec				CLAY & SAND	940'	CLAY & SAND: GRAY (W) (10YR 6/1), CLAY (50%), FINE SAND (30%), MEDIUM SAND (20%). CONSTITUENTS: CLAY (50%), CARBONATE (15%), LITHIC FRAGMENTS (10%), QUARTZ (10%), MAFICS (10%), FELDSPAR (5%); POORLY SORTED - SUBANGULAR TO SUBROUNDED; STRUCTURELESS; CLAY IS STICKY; MODERATE ACID-REACTION. OTHER DATA NOT STATED. (940-951 ft).
950 ft					T.D - 951'		