

GL04823

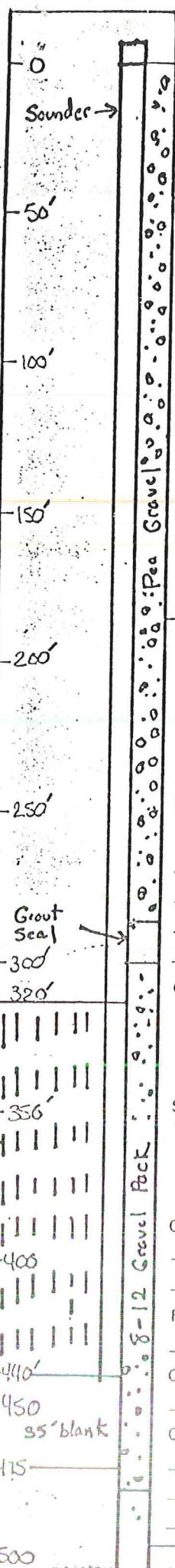
# WELL CONSTRUCTION SUMMARY

LOCATION or COORDS: Hamlin Valley  
T8N, R69E, Sec 35dc

ELEVATION: GROUND LEVEL 5750' 5816.07  
 TOP OF CASING 5751' 5818.04

LOCATION: Hamlin Valley, Nevada  
 PERSONNEL: R. Whitworth, D. Williams

PROJECT: MX - Shallow Aquifer - 1980 FY  
79-290-43-521



**DRILLING SUMMARY:**

TOTAL DEPTH 480'  
 BOREHOLE DIAMETER 9.9"  
Reamed to 17.5"  
 DRILLER Scott Stephenson  
Andrew McPhearson  
Russel Mangelson  
 RIG RT-1800  
 BIT(S) TRICONE  
 DRILLING FLUID BENTONITE + V7E  
 SURFACE CASING 40'

**WELL DESIGN:**

BASIS: GEOLOGIC LOG  GEOPHYSICAL LOG   
 CASING STRING(S): C=CASING S=SCREEN  
0 - 320' C Sounding Tube  
320' - 440' S 0 - 440' sonder  
440' - 475' C

CASING: C1 \_\_\_\_\_  
 C2 \_\_\_\_\_  
 C3 \_\_\_\_\_  
 C4 \_\_\_\_\_  
 SCREEN: S1 \_\_\_\_\_  
 S2 \_\_\_\_\_  
 S3 \_\_\_\_\_  
 S4 \_\_\_\_\_

CENTRALIZERS EVERY 100ft. starting @ G.S  
except screen interval

FILTER MATERIAL pea gravel, 0-280'  
8-12 gravel 300-TD

CEMENT Grout Seal from 280-300'  
Portland Cement, Bentonite (10:1)

OTHER \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**CONSTRUCTION TIME LOG:**

TASK	START		FINISH	
	DATE	TIME	DATE	TIME
DRILLING:				
INITIAL	8/18/80	0639	8/18/80	1849
REAMING	8/20/80	1750	8/21/80	1120
GEOPHYS. LOGGING:	8/18/80	1950	8/18/80	2340
CASING:				
	8/21/80	1206	8/23	0235
FILTER PLACEMENT:	8/23/80	1100	8/23/80	2011
CEMENTING:	8/23/80	2049	8/23/80	2059
DEVELOPMENT:				
OTHER:				
<u>Pea gravel</u>	8/24/80			

**WELL DEVELOPMENT**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**COMMENTS:**

Reamed hole diameter = 17.5"  
Casing diameter (O.D.) = 10 3/4"  
(I.D.) = 10"  
Sonder Diameter (O.D.) = 2 3/8"

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# LOG OF BOREHOLE

BOREHOLE HM. S-T-1

PAGE 1 OF 6

LOC. or COORDS. <u>T0N-R64E35dc</u>	DRILLER <u>SCOTT STEPHENSON</u> <u>ANDREW McPHEARSON</u> <u>RUSSEL MANGELSON</u>	START DATE <u>8-18-80</u>	FINISH DATE <u>1849</u>
GROUND ELEV. <u>5750'</u>	RIG <u>RT-1800</u>	TIME <u>0639</u>	1849
TOTAL DEPTH <u>480'</u>	BIT(S) <u>TRILONE</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
BOREHOLE DIAM. <u>9.9"</u>	FLUID <u>BENTONITE</u>	HOW LEFT <u>CASED</u>	<u>UNRETORED</u>

LOGGED BY D. WILLIAMS - E. WILSON  
RELEASED BY R. LAZO

DEPTH	PENE. RATE	CIRC. MET. LOG	AIRLIFT Q (gpm)	MATERIAL	SYM. BOL	DESCRIPTION and COMMENTS
00 ft.				00'		(00, 10') SILTY SAND w/ SOME GRAVEL: LIGHT BROWNISH GRAY (w. 2.5YR 4/2); gray (d. 2-5X NG); silt 20-15%; cs to f. sd. 75% (carb. 25%, dtz 25%); gvl 10% up to 10mm. (carb. 50%, dtz 50%); ps; sd: ang to subrnd; gvl: ang; structureless; n.p; not sticky, no consol. str. Hcl. xrn.
10 ft.	11mm			10'		SAND w/ GRAVEL: (10-50') ( ) Dark yellowish gray (w. 10YR 4/1); gray (d. 10YR 2/4); cs to med sd. 25% (carb. 80%, dtz 20%); gvl: 25% up to 4mm. (carb. 75%, dtz 25%); ps; sd: ang to subrnd; gvl: ang to subrnd; structureless; n.p; not sticky, no consol; mod Hcl xrn; (Bldr chips present).
20 ft.	12mm			20'		SAND w/ GRAVEL (20-25') SAME AS ABOVE
30 ft.	9mm			30'		SAND w/ SOME GRAVEL (30-40') SAME AS ABOVE EXCEPT GRAVEL DECREASING TO 10%
40 ft.	10mm			40'		SAND w/ SOME GRAVEL (40-50') SAME AS ABOVE
50 ft.	8mm			50'		SAND (50-60') ( ) light brownish gray (w. 10YR 4/2); light gray (d. 10YR 7/1); bldr chips and gvl trc; cs to med sd 95% (carb. 75% dtz 20%, dtz 5%); m.c; sd: ang to subrnd; structureless; n.p; not sticky; no consol; mod Hcl xrn (Boulder chips present).
60 ft.	15mm			60'		SAND (60-70') ( ) SAME AS ABOVE. Angularity increases. (Boulder chips).
70 ft.	12mm			70'		SAND (70-80') ( ) SAME AS ABOVE
80 ft.	11mm			80'		SAND
90 ft.				90'		SAND
100 ft.				100'		SAND

# LOG OF BOREHOLE

BOREHOLE HM-S-T-1

PAGE 2 OF 6

LOC. or COORDS. <u>T0N-R69E 35dc</u>	DRILLER <u>SCOTT STEPHENSON</u>	START DATE <u>8-18-80</u>	FINISH DATE _____
GROUND ELEV. <u>5750'</u>	<u>ANDREW McPHEARSON</u>	TIME <u>0639</u>	<u>1849</u>
TOTAL DEPTH <u>480'</u>	<u>RUSSEL MANGELSON</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	HOW LEFT <u>CASD</u>
BOREHOLE DIAM. <u>9.9"</u>	RIG <u>RT-1800</u>	UNRECORDED	
	BIT(S) <u>TRICONE</u>		
	FLUID <u>BENTONITE</u>		

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT (gpm)	MATERIAL	SYM. BOL	DESCRIPTION and COMMENTS
80 ft	10 min			SAND		SAND w/SOME GRAVEL (80'- ) ( ) light brownish gray (w. 10% R <sup>1/2</sup> ); light gray (d. 10% R <sup>1/2</sup> ); cs to med sd. 90% (carb 80%; det 20%, az 5%); gvl. 10% up to 7mm. (carb 20%, det 10%); p.s.; sd: dup to subrd; gvl: dup to subrd; structureless; np; not stky, not consol; str. Hcl rxn (bold chips fr.).
90 ft	10 min			SAND		SAND w/SOME GRAVEL (90-100) ( ) SAME AS ABOVE EXCEPT GRAVEL INCREASED TO 20% & less than 5% clay.
100 ft	10 min			clayey sand		CLAYEY SAND w/SOME GRAVEL (100'- ) ( ) pale brown (w. 10% R <sup>1/2</sup> ) very pale brown (d. 10% R <sup>1/2</sup> ); cl. 15%; cs to f sd. 75% (carb 90%, det 5%); gvl. 10% up to 13mm. (carb 95%, det 5%); p.s.; sd: dup to subrd; gvl: subrd; structureless; sp; stky; no consol; str. Hcl rxn.
110 ft	9 min					CLAYEY SAND w/SOME GRAVEL (110'-120') ( ) SAME AS ABOVE.
120 ft	11 min			SANDY CLAY		SANDY CLAY w/LITTLE GRAVEL (120'-130') ( ) pale brown (w. 10% R <sup>1/2</sup> ) very pale brown (d. 10% R <sup>1/2</sup> ); cl 60%; cs to f sd 35% (carb 75%, det 20% az & chert 5%); gvl 5% up to 8mm; p.s.; sd: subrd to subrd; gvl: subrd; structureless; np; stky; not consol; str. Hcl rxn.
130 ft	15 min			SANDY CLAY		SANDY CLAY w/ GRAVEL (130'-140') ( ) pale brown (w. 10% R <sup>1/2</sup> ) very pale brown (d. 10% R <sup>1/2</sup> ); cl 50%; cs to f sd 20% (carb 15%, det 20% az & chert 5%); gvl 30% up to 12mm. (carb 90%, det 10%); p.s.; sd: dup to subrd; gvl: dup to subrd; structureless; np; stky; not consol; str. Hcl rxn.
140 ft	6 min			SANDY CLAY		SANDY CLAY w/SOME GRAVEL (140'-160') ( ) pale brown (w. 10% R <sup>1/2</sup> ) very pale brown (d. 10% R <sup>1/2</sup> ); cl 75%; cs sd 15% (carb 80%, det 10% az & chert 10%); gvl 10% up to 10mm. (carb 15%, det 5%); m.s.; sd: subrd to subrd; gvl: dup to subrd; structureless; np; stky; not consol; str. Hcl rxn.
150 ft	3 min			SANDY CLAY		SANDY CLAY w/SOME GRAVEL (150'-160') ( ) SAME AS ABOVE.
160 ft						

LOGGED BY D. WILLIAMS - R. WHIT WOLF  
 RELOGGED BY R. LAZO

# LOG OF BOREHOLE

BOREHOLE HM. S-T-1

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LOC. or COORDS. <u>TEN-R69E-35 dc</u>  GROUND ELEV. <u>5750'</u> TOTAL DEPTH <u>480'</u> BOREHOLE DIAM. <u>9.9"</u>	DRILLER <u>SCOTT STEPHENSON</u> <u>ANDREW Mc PHEARSON</u> <u>RUSSELL MANGELSON</u>  RIG <u>RT-1800</u> BIT(S) <u>TRICONE</u> FLUID <u>BENTONITE</u>	START _____ FINISH _____ DATE <u>8-18-83</u> TIME <u>0639</u> GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO HOW LEFT <u>CASED</u> <u>UNRECORDED</u>
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DEPTH	PENE. RATE	CIRC. RET. LOG	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
160 ft				160' SANDY CLAY		SANDY clay w/ V. LITTLE GR. SCL. (160-170') ( ) pale brown (w. 10YR 4/3), very pale brown (d. 10YR 6/2), cl. 75%, cs. sd. 20% (carb. 80%, det. 15%, det. chert 10%), gvl. < 5% up to 8mm; m.s., sd: subang to submd, struc. less, up; stky; not consol.; str. Hcl rxn.
170 ft	6 min			170' SAND & CLAY		SAND & clay (170'-180') ( ) pale brown (w. 10YR 6/3), very pale brown (d. 10YR 6/2), cl. 40%, cs. to med. sd. 60% (carb. 75%, det. 15%, ss frag 5%, chert 5%), m.s., sd: subang to submd, structure, n.p., not stky; not consol.; mod. Hcl rxn.
180 ft	6 min			180' SAND		SAND (180-200') ( ) pale brown (w. 10YR 6/3), light brownish gray (d. 10YR 6/2), cs. to med. sd. 95% (carb. 60%, det. 25%, chert 10%, det. 5%), m.s., sd: subang to submd, structure, n.p., not stky; no consol.; mod. Hcl rxn.
190 ft	10 min			190' SAND		SAND (190-200') ( ) SAME AS ABOVE.
200 ft	13 min			200' CLAYEY SAND		CLAYEY SAND (200'-210') ( ) pale brown (w. w. 10YR 6/3), light brownish gray (d. 10YR 6/2), clay 25%, cs. to med. sd. 75% (carb. & det. 90%, det. det. chert 10%), gvl. tr. up to 8mm; m.s., sd: subang to rnd. struc. less, n.p., not stky, non consol., str. Hcl rxn.
210 ft	7 min			210' SAND		SAND (210-240') ( ) Brown (w. 2.5YR 5/2), pinkish gray (d. 7.5YR 6/2), cl. < 5%, med. sd. 95% (carb. 75%, det. 20%, det. & chert 5%), w. some s., sd: dup to subang; structure, n.p., not stky; no consol.; mod. Hcl rxn.
220 ft	7 min			220' SAND		SAND (220-230') ( ) SAME AS ABOVE. EXCEPT CL. UP TO 10%.
230 ft	5 min			230' SAND		SAND (230-240') ( ) SAME AS ABOVE.
240 ft				240' SAND		SAND (230-240') ( ) SAME AS ABOVE.

LOGGED BY D. WILLIAMS - R. WHITWORTH  
RECORDED BY R. LAZO

# LOG OF BOREHOLE

BOREHOLE HM-S-T-1

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LOC. or COORDS. <u>T 8N. R 69E-35dc.</u>	DRILLER <u>SCOTT STEPHENSON</u> <u>ANDREW MC PHEARSON</u> <u>RUSSELL MANGELSON</u>	START DATE <u>8-18-80</u>	FINISH DATE _____
GROUND ELEV. <u>5750'</u>	RIG <u>RT-1800</u>	TIME <u>0639</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
TOTAL DEPTH <u>480'</u>	BIT(S) <u>TRICONE</u>	HOW LEFT <u>CASED</u>	
BOREHOLE DIAM. <u>9.9"</u>	FLUID <u>BENTONITE</u>	<u>UNRESTORED</u>	

DEPTH	PENE. RATE	CIRC. RET. LOG	AIRLIFT (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
240ft	9min			240' CLAYEY SAND.		CLAYEY SAND (240-250') ( ), pinkish gray (w. 2.5YR 7/2), pinkish white (d. 7.5YR 8/2), cl 25%, med sd. 75% (carb. 90%, det. & chert 10%), m.s.; sd: sub ang to sub rnd; structureless, n.p.; not sticky, no consol, str. Hcl rxn.
250ft	9min			250' SANDY CLAY		SANDY CLAY (250-260') ( ), pinkish gray (w. 2.5YR 7/2), pinkish white (d. 7.5YR 8/2), cl 60%, med sd 40% (carb. 90%, det. & chert 10%), m.s.; sd: sub ang to sub rnd; structureless, n.p.; sticky; no consol; str. Hcl rxn.
260ft	5min			260' SANDY CLAY		SANDY CLAY (260-) ( ), pink (w. 7.5YR 8/4), pinkish white (d. 7.5YR 8/2), cl 75%, med sd. 25% (carb. 90%, det. & chert 10%), m.s.; sd: sub ang to sub rnd; structureless; s.p.; sticky; no consol; str. Hcl rxn.
270ft	5min			270' CLAYEY SAND		CLAYEY SAND (270-300') ( ), pinkish gray (w. 7.5YR 7/2), pinkish white (d. 7.5YR 8/2), cl 25%, med sd. 75% (carb. 90%, det. & chert 10%), m.s.; sd: sub ang to sub rnd; structureless, n.p. non sticky; no consol; str. Hcl rxn. (log indicates 3'-4' hard pan at 273').
280ft	4min			283' CLAYEY SAND		CLAYEY SAND (280-290') ( ) SAME AS ABOVE.
290ft	4min			290' CLAYEY SAND		CLAYEY SAND (290-300') ( ) SAME AS ABOVE. except. cl. micaceous.
300ft	12min			300' CLAYEY SAND		CLAYEY SAND (300-325') ( ) pinkish gray (w. 7.5YR 7/2), pinkish white (d. 7.5YR 8/2), cl. 40%, med sd. 60% (carb. 90%, det. & chert 10%), m.s.; sd: sub ang to sub rnd; structureless, n.p. & sticky; no consol; str. Hcl rxn.
310ft	15min			310' CLAYEY SAND.		CLAYEY SAND (310-320') SAME AS ABOVE.
320ft				320'		

LOGGED BY: P. WILLIAMS - B. WILKINSON, R. KATH. RECORDED BY: P. LAZD

# LOG OF BOREHOLE

BOREHOLE HM-S-T-1

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LOC. or COORDS. <u>T8N-R69E-35dc</u>	DRILLER <u>SCOTT STEPHENSON</u> <u>ANDREW McPHEARSON</u> <u>RUSSELL MANGELSON</u>	START DATE <u>8-18-80</u>	FINISH DATE _____
GROUND ELEV. <u>5750'</u>	RIG <u>R.T. 1800</u>	TIME <u>0639</u>	
TOTAL DEPTH <u>480'</u>	BIT(S) <u>TRICONE</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
BOREHOLE DIAM. <u>9.9"</u>	FLUID <u>BENTONITE</u>	HOW LEFT <u>CASED</u>	<u>UNRESTORED</u>

DEPTH	PENE RATE	CIRC RET. (ft)	AIRLIFT (gpm)	MATERIAL	SYM. BOL	DESCRIPTION and COMMENTS
320 ft	10 min			320' CLAYEY SAND		CLAYEY SAND (320-330') ( ) pinkish gray (w. 7.5 YR 7/2), pinkish white (d. 7.5 YR 8/2); cl. 40%; med sd. 60% (carb. 90%, bit. 62 silt 10%); ms; sd; sub ang to sub rnd; structureless, n.p.; s. sticky, non consol; str. Hcl rxn.
330 ft	15 min			330' CLAYEY SAND		CLAYEY SAND (330-340') ( ) SAME AS ABOVE.
340 ft	12 min			340' CLAYEY SAND		CLAYEY SAND (340-350') ( ) SAME AS ABOVE. log indicates culling core lining.
350 ft	n.t.			350' * CLAYEY SAND		CLAYEY SAND (350-360') ( ) *NO SAMPLE; ORIGINAL LOG SHOWS: Pale brown (10 YR 6/2), very dark gray (7.5 YR 3/2); cl. 30%, cs to med sd 70% (carb. p.s.; sd. ang. to sub rnd; structureless, n.p.; non sticky, str. Hcl rxn.
360 ft	n.t.			360' CLAYEY SAND		CLAYEY SAND w/ LITTLE GRAVEL (360- ) ( ) pinkish gray (w. 7.5 YR 7/2) pinkish white (d. 7.5 YR 8/2); clay 20%; cs to med sd. 75% (carb. 90%; bit. 10%, s. 5% up to 10 mm (carb.)); ps; sd. sub ang to rnd; silt sub ang; structureless, n.p.; not sticky; str. Hcl rxn. (Cold chips. Fr.)
370 ft	n.t.			370' CLAYEY SAND		CLAYEY SAND w/ LITTLE GRAVEL (370-380') ( ) SAME AS ABOVE EXCEPT; clay decreased up.
380 ft	10 min			380' SAND		SAND w/ LITTLE CLAY (380- ) ( ) pinkish gray (w. 7.5 YR 7/2); light gray (d. 7.5 YR 8/2); cl. 45%; cs to med sd. 95% (carb. 90%; bit. 10%, s. 5%, fld sp. 5%); ms; sd; sub ang to sub rnd; structureless, n.p.; not sticky; non consol; str. Hcl rxn.
390 ft	14 min			390' SAND		SAND (390-400') ( ) SAME AS ABOVE EXCEPT NO CLAY
400 ft				400'		

LOGGED BY D. WILLIAMS R. WHITWOLD  
RECORDED BY N. CAZG

# LOG OF BOREHOLE

BOREHOLE H.M. S-T-1  
PAGE 6 OF 6

LOC. or COORDS. <u>TAN-R69.E. 35dc.</u>	DRILLER <u>S. STEPHENSON</u>	START DATE <u>8-18-80</u>	FINISH DATE
GROUND ELEV. <u>5750'</u>	<u>A. MCPHEARSON</u>	TIME <u>0639</u>	
TOTAL DEPTH <u>480'</u>	<u>R. MANGELSON</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
BOREHOLE DIAM. <u>9.9"</u>	RIG <u>R.T-1800</u>	HOW LEFT <u>CASED</u>	
	BIT(S) <u>TRICOWE</u>	<u>UNRESTORED</u>	
	FLUID <u>BENTONITE</u>		

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM BOL	DESCRIPTION and COMMENTS
400ft	15 min			SAND		SAND w/ little clay (400- ) ( ) brown (w. 7.5% silt); 2.0% (d. 7.5% silt); cl 5%; cs to med. sd. 95% (carb. 90%, det. 10%, 0.5% f/dsp. 5%); ms; sd. subang. to subrnd, structure, n.p., not sticky; not consol.; str. Hel rxn.
410ft	14 min			SAND		SAND (410'-420'); SAME AS ABOVE EXCEPT NO CLAY and boulder chips, traces.
420ft	15 min			SAND		SAND (420'-430') ( ) SAME AS ABOVE w/o LITTLE CLAY.
430ft	14 min			SAND		SAND (430'-440') ( ) SAME AS ABOVE; EXCEPT LOTS f/dsp.
440ft	22 min			CLAYEY SAND		CLAYEY SAND (440'-450') ( ) pinkish grey (w. 7.5% silt); light grey (d. 7.5% silt); clay 15%; med to f sd. 85% (carb. 75%, det. 10%, 0.5% f/dsp. 5%); ms; sd. subang to subrnd, structure, n.p.; not sticky, not consol.; str. Hel rxn. (bldr chips. tr).
450ft	14 min			SAND		SAND w/ little clay (450'-460') ( ) brown (w. 7.5% silt) grey (d. 7.5% silt); clay 5%; cs to med sd. 95% (carb. 90%, det. 10%, 0.5% f/dsp. 5%); ms; sd. sub to subrnd; structure, n.p.; not sticky; not consol.; str. Hel rxn. (bldr chips. tr).
460ft	20 min			CLAYEY SAND		CLAYEY SAND (460'-470') ( ) pinkish grey (w. 7.5% silt); pinkish white (d. 7.5% silt); cl 25%; cs to med sd. 75% (carb. 75%, det. 10%, 0.5% f/dsp. 5%); ms; sd. sub to subrnd, structure, n.p.; not sticky; no consol.; str. Hel rxn.
470ft	20 min			SAND & CLAY		SAND & CLAY (470'-480') ( ) cl. pinkish grey (w. 7.5% silt); pinkish white (d. 7.5% silt); sd. brown (w. 7.5% silt); grey (d. 7.5% silt); cl 50%; cs to f sd. 50% (carb. 75%, det. 10%, 0.5% f/dsp. 5%); ms; sd. subang to subrnd; structure, n.p.; cl. sticky; not consol.; str. Hel rxn.
480ft				T.D.		same gult.

LOGGED BY D. WILLIAMS - R - WHITE OATH  
R. FLOESER R. LAZO

# AQUIFER TEST DATA

WELL Hm-ST-1

(PUMPING) or OBSERVATION WELL

(PUMPING) or RECOVERY DATA

PAGE 1 OF 2

TYPE OF AQUIFER TEST Step Drawdown

HOW Q MEASURED Motor continuous Flow

HOW W.L.'s MEASURED Single Electric Log Recorder

DEPTH OF PUMP/AIRPIPE \_\_\_\_\_

RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_

PUMP ON: date 9/6/80 time 0900 hrs

MEAS. POINT FOR W.L.'s 230 feet below ground surface

PUMP OFF: date 9/7/80 time 0100 hrs.

ELEVATION OF MEAS. POINT \_\_\_\_\_

DURATION OF AQUIFER TEST 16 hrs.

LOCATION SW 1/4 Sec 34 T13N R10E  
PERSONNEL T. Green

PROJECT U-2100-13-021  
SM-21 X

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
t = _____ at t' = 0		STATIC WATER LEVEL <u>157.56</u>			READING	CONVERSIONS CORRECTIONS	WATER LEVEL	s or s'	READ-ING	Q		
DAY	CLOCK TIME	t	t'									
9/6	0:45			52.74	-6.02							
	0:46			52.73	-6.02							
	0:47			52.73	-6.02						157.56 ft. suil.	
	0:48			52.73	-6.02							
	0:49			52.73	-6.02						(zero effect)	
	0:50			52.73	-6.02						= -0.20	
	0:51			52.73	-6.02						sensitivity =	
	0:52			52.73	-6.02	(157.56)	(0.00)				0.986	
	0:53			52.73	-6.02						for 100 psi	
	0:54			52.73	-6.02						probe.)	
	0:55			52.73	-6.02							
	0:56			52.73	-6.02							
	0:57			52.73	-6.02							
	0:58			52.73	-6.02							
	0:59			52.74	-6.02							
	1:00	0		52.74	-6.02						Pump on	
	1:01	1		52.60	-6.02	157.86	-0.30				Motor starting	
	1:02	2		52.49	-6.02	158.11	-0.55				07.513 gallon	
	1:03	3		52.41	-6.02	158.30	-0.74					
	1:04	4		52.32	-6.02	158.51	-0.95					
	1:05	5		52.24	-6.02	158.64	-1.13					
	1:06	6		52.16	-6.02	158.85	-1.32					
	1:07	7		52.06	-6.02	159.11	-1.55					
	1:08	8		51.95	-6.02	159.37	-1.81					
	1:09	9		51.84	-6.02	159.63	-2.07					
	1:10	10		51.72	-6.02	159.91	-2.35					
	1:11	11		51.61	-6.02	160.18	-2.60					
	1:12	12		51.51	-6.02	160.40	-2.84					
	1:13	12		51.40	-6.02	160.65	-3.09				(zero effect =	
	1:14	14		51.30	-6.02	160.89	-3.33				+ 0.09)	
	1:15	15		51.20	-6.02	161.15	-3.56				sensitivity =	
	1:16	16		51.09	-6.02	161.38	-3.82				0.986 for	
	1:17	17		50.99	-6.02	161.61	-4.05				50 psi baro-	
	1:18	18		50.89	-6.02	161.84	-4.28				metric probe)	
	1:19	19		50.77	-6.02	162.08	-4.52					
	1:20	20		50.67	-6.02	162.31	-4.75					
	1:21	21		50.57	-6.02	162.55	-4.96					
	1:22	22		50.50	-6.02	162.75	-5.19					
	1:23	23		50.40	-6.02	162.94	-5.43					
	1:24	24		50.31	-6.02	163.20	-5.64					
	1:25	25		50.22	-6.02	163.41	-5.95					



# AQUIFER TEST DATA

WELL Hm-5T-1

TYPE OF AQUIFER TEST Steady State  
 HOW Q MEASURED cut from pump  
 HOW W.L.'s MEASURED single Recorder  
 RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_  
 MEAS. POINT FOR W.L.'s 290 ft below ground  
 ELEVATION OF MEAS. POINT \_\_\_\_\_

<PUMPING or OBSERVATION WELL

<PUMPING or RECOVERY DATA

PAGE 2 OF 16

DEPTH OF PUMP/AIRPIPE 290 ft  
 PUMP ON: date 9/6/80 time 0900 hrs  
 PUMP OFF: date 9/7/80 time 0100 hrs  
 DURATION OF AQUIFER TEST 16 hrs

LOCATION 2414 SE 1/4 Sec 3, T8N/R6E  
 PERSONNEL T. Smith

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
t = _____ at t' = 0		STATIC WATER LEVEL <u>157.56</u>			DISCHARGE		READING	Q				
D	CLOCK TIME	t	t'	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL			s or s'	READING	Q	
9/6	0926	26		50.13	-6.02	163.62	6.06					
	0927	27		50.04	-6.02	163.83	6.27					
	0928	28		49.96	-6.02	164.01	6.45					
	0929	29		49.87	-6.02	164.22	6.66					
	0930	30		49.78	-6.02	164.43	6.87				Ave Q =	
	0935	35		49.36	-6.02	165.20	7.64				73 gpm	
	0940	40		48.97	-6.02	166.32	8.76					
	0945	45		48.60	-6.03	167.18	9.62		75 gpm			
	0950	50		48.26	-6.02	167.98	10.42					
	0955	55		47.95	-6.02	168.70	11.14					
	1000	60		47.64	-6.02	169.43	11.87					
	1030	70		46.16	-6.02	172.82	15.26					
	1100	120		45.16	-6.04	175.19	17.63					
	1130	150		44.48	-6.05	176.76	19.20					
	1200	180		44.01	-6.05	177.86	20.30					
	1230	210		43.65	-6.05	178.68	21.12					
	1300	240		43.31	-6.07	179.47	21.91	*			Second Step	
	1311	241		43.29	-6.07	179.52	21.96				Motor trouble	
	1322	242		43.22	-6.07	178.68	21.12				107, 170 gal.	
	1323	243		43.15	-6.07	179.84	22.28					
	1344	244		43.03	-6.07	180.01	22.45					
	1355	245		43.03	-6.07	180.12	22.56					
	1356	246		42.96	-6.07	180.29	22.73					
	1357	247		42.87	-6.07	180.45	22.89					
	1358	248		42.79	-6.07	180.68	23.12					
	1359	249		42.67	-6.07	180.96	23.40					
	1400	250		42.55	-6.07	181.24	23.62					
	1401	251		42.41	-6.07	181.57	24.01				1325 gpm	
	1402	252		42.28	-6.07	181.87	24.31		1300			
	1403	253		42.14	-6.07	182.20	24.64					
	1404	254		42.01	-6.07	182.53	24.94					
	1405	255		41.87	-6.07	182.83	25.27					
	1406	256		41.74	-6.07	183.13	25.57					
	1407	257		41.60	-6.07	183.46	25.90					
	1408	258		41.48	-6.07	183.74	26.18					
	1409	259		41.35	-6.07	184.04	26.48					
	1410	260		41.22	-6.07	184.35	26.79					
	1411	261		41.10	-6.08	184.61	27.05					
	1412	262		40.98	-6.09	184.89	27.33					
	1413	263		40.85	-6.07	185.20	27.64					
	1414	264		40.74	-6.08	185.05	27.84					

PROJECT 77-50-03-021  
1/1/80

# AQUIFER TEST DATA

TYPE OF AQUIFER TEST Step Drawdown  
 HOW Q MEASURED meter  
 HOW W.L.'s MEASURED Sinec Recorder  
 RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_  
 MEAS. POINT FOR W.L.'s 290 ft below SP  
 ELEVATION OF MEAS. POINT \_\_\_\_\_

WELL \_\_\_\_\_  
 PUMPING or OBSERVATION WELL \_\_\_\_\_  
 PUMPING or RECOVERY DATA \_\_\_\_\_  
 PAGE 3 OF 16  
 DEPTH OF PUMP/AIRPIPE 290 ft  
 PUMP ON: date 9/6/80 time 0900  
 PUMP OFF: date 9/7/80 time 0800  
 DURATION OF AQUIFER TEST 16 hrs

LOCATION S&W 1/4 Sec 35 T5N R10E  
 PERSONNEL T.S. Johnson

PROJECT 19-290-43-621  
1910-812

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
DAY	CLOCK TIME	t	at t'=0	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'	READING	Q		
						157.56					
	1325	265		40.60	-6.08	185.78	28.22				
	1326	266		40.49	-6.08	186.04	28.48				
	1327	267		40.38	-6.08	186.29	28.73				
	1328	268		40.26	-6.08	186.57	29.01				
	1329	269		40.14	-6.08	186.85	29.29				
	1330	270		40.04	-6.08	187.09	29.53				
	1335	275		39.48	-6.08	188.39	30.83				
	1340	280		38.94	-6.09	189.64	32.08				
	1345	285		38.43	-6.09	190.83	33.27				
	1350	290		37.95	-6.09	191.95	34.39				
	1355	295		37.49	-6.10	193.01	35.45				
	1400	300		37.05	-6.10	194.04	36.48				
	1405	300		34.90	-6.10	199.06	41.50				
	1420	360		33.37	-6.11	202.61	45.05				
	1430	390		32.27	-6.11	205.18	47.62				
	1440	420		31.55	-6.10	206.87	49.31				
	1430	450		31.07	-6.10	207.99	50.43				
	1700	480		30.77	-6.09	208.70	51.14				
	1701	481		30.73	-6.09	208.90	51.24				
	1702	482		30.67	-6.09	208.94	51.33				
	1703	483		30.60	-6.09	209.10	51.54				
	1704	484		30.57	-6.08	209.32	51.76				
	1705	485		30.38	-6.09	209.61	52.05				
	1716	486		30.25	-6.09	209.92	52.36				
	1707	487		30.11	-6.08	210.26	52.70				
	1708	488		29.97	-6.08	210.58	53.02				
	1709	489		29.83	-6.08	210.91	53.35				
	1710	490		29.70	-6.08	211.21	53.65				
	1711	491		29.55	-6.08	211.54	53.98				
	1712	492		29.43	-6.08	211.84	54.28				
	1713	493		29.27	-6.08	212.17	54.61				
	1714	494		29.17	-6.08	212.45	54.89				
	1715	495		29.03	-6.08	212.78	55.22				
	1716	496		28.90	-6.08	213.09	55.52				
	1717	497		28.73	-6.08	213.36	55.80				
	1718	498		28.64	-6.08	213.59	56.13				
	1719	499		28.52	-6.08	213.77	56.41				
	1720	500		28.41	-6.08	214.05	56.69				
	1721	501		28.27	-6.08	214.35	56.99				
	1722	502		28.15	-6.08	214.63	57.27				
	1723	503		28.00	-6.08	215.11	57.55				

Ave Q =  
92 gpm

Tank Stop  
 Motor Running  
129, 350 gpm

1460 gpm

# AQUIFER TEST DATA

WELL Hm-5T-1

PUMPING or OBSERVATION WELL

PUMPING or RECOVERY DATA

PAGE 4 OF 16

TYPE OF AQUIFER TEST Step Drawdown

HOW Q MEASURED meter

HOW W.L.'s MEASURED Smear Recorder

RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_

MEAS. POINT FOR W.L.'s 290 ft

ELEVATION OF MEAS. POINT \_\_\_\_\_

DEPTH OF PUMP/AIRPIPE 290 ft

PUMP ON: date 8/6 time 0900

PUMP OFF: date 8/7 time 0100

DURATION OF AQUIFER TEST 16 hrs

LOCATION SW 1/4 SE 1/4 Sec 35, T8N, R10E

PERSONNEL J. Smith

PROJECT 71-290-43-621  
DMO-MX

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
t = <u>960</u> at t' = 0		STATIC WATER LEVEL <u>157.56</u>			READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'	READING	Q		
DAY	CLOCK TIME	t	t'									
	1724	504			27.90	-6.08	215.41	57.85				
	1725	505			27.79	-6.09	215.67	58.11				
	1726	506			27.67	-6.08	215.95	58.39				
	1727	507			27.56	-6.08	216.21	58.65				
	1728	508			27.44	-6.08	216.49	58.93				
	1729	509			27.33	-6.08	216.74	59.18				
	1730	510			27.22	-6.08	217.00	59.44				
	1735	515			26.64	-6.08	218.35	60.79	126 gpm			
	1740	520			26.17	-6.08	219.45	61.89				
	1745	525			25.69	-6.08	220.57	63.01				
	1750	530			25.24	-6.08	221.62	64.06				
	1755	535			24.81	-6.08	222.62	65.06				
	1800	540			24.41	-6.08	223.55	65.99				
	1830	570			22.49	-6.08	228.03	70.47				
	1900	600			21.08	-6.08	231.32	73.76				
	1930	630			20.12	-6.10	233.55	75.99				
	2000	660			19.42	-6.09	235.18	77.62				
	2030	690			18.89	-6.09	236.42	78.86				
	2100	720			18.58	-6.09	237.14	79.58	*			
	2101	721			18.57	-6.09	237.17	79.61				
	2102	722			18.56	-6.09	237.19	79.63				
	2103	723			18.54	-6.09	237.24	79.68				
	2104	724			18.50	-6.09	237.32	79.76				
	2105	725			18.44	-6.09	237.47	79.91				
	2106	726			18.39	-6.09	237.59	80.03	165 gpm			
	2107	727			18.30	-6.09	237.80	80.24				
	2108	728			18.18	-6.08	238.09	80.53				
	2109	729			18.04	-6.09	238.40	80.84				
	2110	730			17.90	-6.09	238.73	81.17				
	2111	731			17.75	-6.09	239.08	81.52	160 gpm			
	2112	732			17.61	-6.09	239.41	81.85				
	2113	733			17.47	-6.09	239.73	82.17				
	2114	734			17.33	-6.09	240.06	82.50				
	2115	735			17.19	-6.09	240.39	82.83				
	2116	736			17.05	-6.09	240.75	82.79				
	2117	737			16.91	-6.09	241.04	83.98				
	2118	738			16.78	-6.09	241.39	83.78				
	2119	739			16.64	-6.09	241.67	84.11				
	2120	740			16.51	-6.09	241.97	84.41				
	2121	741			16.38	-6.09	242.28	84.72				
	2122	742			16.25	-6.09	242.58	85.02				

Ave. Q = 120 gpm

\* Earth stop  
meter reading  
158, 250 gal

1475 gpm

# AQUIFER TEST DATA

WELL Hm-5T-1  
 PUMPING or OBSERVATION WELL  
 PUMPING or RECOVERY DATA  
 PAGE 5 OF 76  
 DEPTH OF PUMP/AIRPIPE 290.00  
 PUMP ON: date 7/6/80 time 0900  
 PUMP OFF: date 9/7/80 time 0100  
 DURATION OF AQUIFER TEST 16 hrs.

TYPE OF AQUIFER TEST Step Drawdown  
 HOW Q MEASURED meter  
 HOW W.L.'s MEASURED Sinec Recorder  
 RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_  
 MEAS. POINT FOR W.L.'s 290 ft  
 ELEVATION OF MEAS. POINT \_\_\_\_\_

LOCATION Sub SE of Sec 35 18N/85E  
 PERSONNEL \_\_\_\_\_

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
t = <u>960</u> at t' = 0				STATIC WATER LEVEL <u>157.56</u>				READING	Q		
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS OR CORRECTIONS	WATER LEVEL	s or s'				
	2123	743		16.13	-6.09	242.86	85.30				
	2124	744		16.00	-6.09	243.16	85.60				
	2125	745		15.88	-6.09	243.44	85.88				
	2126	746		15.76	-6.09	243.72	86.16				
	2127	747		15.64	-6.09	244.00	86.44				
	2128	748		15.51	-6.09	244.31	86.75				
	2129	749		15.40	-6.09	244.56	87.00				
	2130	750		15.28	-6.09	244.84	87.28				
	2135	755		14.72	-6.09	246.15	88.59				
	2140	760		14.19	-6.09	247.39	89.83				
	2145	765		13.67	-6.08	248.61	91.05				
	2150	770		13.17	-6.09	249.77	92.21				
	2155	775		12.68	-6.09	250.91	93.35				
	2200	780		12.22	-6.09	251.98	94.42				
	2230	810		10.00	-6.10	257.15	99.59				
	2300	840		7.50	-6.08	260.67	103.11				
	2330	870		7.40	-6.07	263.25	105.69				
9/7	0000	900		6.55	-6.08	265.45	107.59				
	0030	930		6.06	-6.08	266.37	108.81				
	1100	960	0	5.81	-6.07	266.86	109.40				
	0101	961	1	6.15	-6.08	266.16	108.60				
	0112	962	2	6.54	-6.08	265.75	107.69				
	0123	963	3	6.97	-6.09	264.23	106.67				
	0134	964	4	7.40	-6.08	263.24	105.68				
	0145	965	5	7.84	-6.08	262.21	104.65				
	0156	966	6	8.28	-6.08	261.16	103.60				
	0207	967	7	8.73	-6.09	260.13	102.57				
	0218	968	8	9.19	-6.09	259.05	101.49				
	0229	969	9	9.63	-6.09	258.03	100.47				
	0310	970	10	10.08	-6.09	256.96	99.42				
	0321	971	11	10.51	-6.09	255.97	98.41				
	0332	972	12	10.95	-6.09	254.95	97.39				
	0343	973	13	11.39	-6.09	253.92	96.36				
	0354	974	14	11.82	-6.09	252.92	95.36				
	0405	975	15	12.26	-6.08	251.9	94.34				
	0416	976	16	12.69	-6.09	250.89	93.33				
	0427	977	17	13.12	-6.09	249.88	92.32				
	0438	978	18	13.55	-6.09	248.88	91.32				
	0449	979	19	13.97	-6.09	247.90	90.34				
	0500	980	20	14.39	-6.09	246.92	89.36				

Ave Q =  
145 gpm

Pause of  
meter volume  
192,984 gal. @

PROJECT 17-270-43-621  
D.M.C.-M.T.



# AQUIFER TEST DATA

WELL Hm-ST-1  
 PUMPING or OBSERVATION WELL  
 PUMPING or RECOVERY DATA  
 PAGE 1 OF 6  
 DEPTH OF PUMP/AIRPIPE 290 feet  
 PUMP ON: date 9/8/80 time 0900 hrs.  
 PUMP OFF: date 9/13/80 time 0900 hrs.  
 DURATION OF AQUIFER TEST 170 hrs.

TYPE OF AQUIFER TEST Constant Discharge  
 HOW Q MEASURED Constant Flow Meter  
 HOW W.L.'s MEASURED Single Recorder  
 RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_  
 MEAS. POINT FOR W.L.'s 290 feet below ground.  
 ELEVATION OF MEAS. POINT \_\_\_\_\_

LOCATION Site 55 & S-735 TBN, R 69E  
 PERSONNEL J. Smith

PROJECT 79-290-43-521  
BMO-102

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
t = <u>7200</u> at t' = 0		STATIC WATER LEVEL <u>157.64</u>			READING	CONVERSIONS CORRECTIONS	WATER LEVEL	s or s'	READING	Q		
DAY	CLOCK TIME	t	t'	READING								
1/8	845			52.76	-6.13	↑	↑					
A1	846			52.76	-6.13	↑	↑					Water level probe
	847			52.76	-6.13							zero offset = -0.20
	848			52.76	-6.13							sensitivity = 0.986
	849			52.76	-6.13							range 100psi
	850			52.76	-6.13							
	851			52.76	-6.13							
	852			52.76	-6.13							Barometric Probe
	853			52.76	-6.13	157.64	(0.00)					zero offset = +0.09
	854			52.76	-6.13							sensitivity = 0.987
	855			52.76	-6.13							range = 50psi
	856			52.76	-6.13							
	857			52.76	-6.13							
	858			52.76	-6.13							
	859			52.76	-6.13							
	900	0		52.76	-6.13	√	√					Pump on
	901	1		52.64	-6.13	157.90	-0.26					Water Reading
	902	2		52.43	-6.12	158.40	0.76					192, 9.5 gph
	903	3		52.18	-6.13	158.95	1.31					
	904	4		51.95	-6.13	159.51	1.87					
	905	5		51.71	-6.13	160.07	2.43					
	906	6		51.44	-6.13	160.70	3.06					
	907	7		51.16	-6.13	161.35	3.71					
	908	8		50.88	-6.13	162.00	4.36					
	909	9		50.61	-6.13	162.63	4.99					
	910	10		50.33	-6.13	163.29	5.65					
	911	11		50.05	-6.13	163.94	6.30					
	912	12		49.78	-6.13	164.57	6.93					
	913	13		49.52	-6.13	165.18	7.54					
	914	14		49.25	-6.13	165.81	8.17					
	915	15		48.99	-6.13	166.41	8.77					
	916	16		48.73	-6.13	166.93	9.29					
	917	17		48.44	-6.13	167.70	10.06					
	918	18		48.14	-6.13	168.40	10.76					
	919	19		47.85	-6.13	169.17	11.48					
	920	20		47.55	-6.13	169.77	12.13					
	921	21		47.25	-6.13	170.47	12.83					
	922	22		46.95	-6.13	171.18	13.54					
	923	23		46.67	-6.12	171.84	14.20					
	924	24		46.37	-6.13	172.48	14.84					
	925	25		46.11	-6.13	173.13	15.44					

# AQUIFER TEST DATA

WELL H<sub>2</sub> - ST - 1

TYPE OF AQUIFER TEST Constant Discharge  
 HOW Q MEASURED Meters  
 HOW W.L.'s MEASURED Single Read. etc.  
 RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_  
 MEAS. POINT FOR W.L.'s 290' below ground surface  
 ELEVATION OF MEAS. POINT \_\_\_\_\_

PUMPING or OBSERVATION WELL  
 PUMPING or RECOVERY DATA  
 PAGE 2 OF 6

DEPTH OF PUMP/AIRPIPE 290 Feet  
 PUMP ON: date 9/13/80 time 0900hrs  
 PUMP OFF: date 9/13/80 time 0900hrs  
 DURATION OF AQUIFER TEST 120 hrs

LOCATION SW 1/4 Sec 16 Cont. 23 T8N, R49E  
 PERSONNEL T. Swartz

PROJECT 79-290-43-021  
 8/10-1/2

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'	READING	Q		
		t = <u>7200</u>	at t' = 0			STATIC WATER LEVEL <u>157.64</u>					
	0726	26		45.83	-6.13	173.79	16.15				
	0727	27		45.55	-6.12	174.45	16.81				
	0728	28		45.27	-6.13	175.09	17.45				
	0729	29		45.01	-6.12	175.71	18.07				
	0730	30		44.74	-6.12	176.34	18.70				
	0735	35		43.44	-6.12	179.37	21.73				
	0740	40		42.19	-6.12	182.29	24.65				
	0745	45		40.98	-6.12	185.11	27.47				
	0750	50		39.83	-6.12	187.80	30.16				
	0755	55		38.75	-6.12	190.32	32.68				
	0800	60		37.73	-6.12	192.70	35.06				
	0830	90		32.52	-6.12	204.85	47.21				
	1100	120		28.72	-6.12	213.72	56.08				
	1130	150		26.07	-6.13	219.89	62.25				
	1200	180		24.30	-6.13	224.02	66.38				
	1230	210		23.05	-6.13	226.93	69.29				
	1300	240		22.18	-6.14	228.95	71.31				WQ sample
	1400	300		21.22	-6.14	231.19	73.55				
	1500	360		20.94	-6.14	231.84	74.20				
	1530	420		20.23	-6.15	233.96	76.32				
	1700	480		19.40	-6.14	235.44	77.80				244, 093 gal
	1800	540		19.76	-6.14	236.46	78.22				BLM water sample taken
	1900	600		19.93	-6.12	236.55	78.91				
	2000	660		18.97	-6.12	236.46	78.92				
	2100	720		18.92	-6.11	236.26	78.62				275, 512 gal
	2200	780		18.24	-6.10	236.79	79.15				at 2145 hrs
	2300	840		18.97	-6.11	236.60	78.96				WQ sample taken
	2400	900		18.21	-6.10	236.39	78.75				@ 2145 hrs
	2500	960	x	18.07	-6.12	236.23	78.59				
	2600	1020		17.72	-6.12	236.10	78.46				
	2700	1080		18.14	-6.13	236.06	78.42				
	2800	1140		17.14	-6.14	236.04	78.40				
	2900	1200		17.14	-6.13	236.66	78.42				
	3000	1260		18.16	-6.13	236.01	78.37				
	3100	1320		17.17	-6.12	236.00	78.36	2.41'	(77.95)		WQ Sample
	3200	1380		17.21	-6.12	235.90	78.26				= 336, 460 gal
	3300	1440	x	19.07	-6.12	236.23	78.59				DTW, 235.54
	3400	1500		18.97	-6.12	236.46	78.32				@ 0700 hrs
	3500	1560		18.25	-6.13	236.17	79.33				
	3600	1620		18.52	-6.13	237.50	79.86				
	3700	1680		18.67	-6.14	237.14	79.50				

# AQUIFER TEST DATA

WELL Hm-ST-1  
 PUMPING or OBSERVATION WELL  
 PUMPING or RECOVERY DATA  
 PAGE 3 OF 6

TYPE OF AQUIFER TEST constant discharge  
 HOW Q MEASURED meter  
 HOW W.L.'s MEASURED Survey Rod  
 RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_  
 MEAS. POINT FOR W.L.'s 290 ft. below ground surface  
 ELEVATION OF MEAS. POINT \_\_\_\_\_

DEPTH OF PUMP/AIRPIPE 290 feet  
 PUMP ON: date 9/8/80 time 0900  
 PUMP OFF: date 9/13/80 time 0900  
 DURATION OF AQUIFER TEST 120 hrs

LOCATION 50 1/2 SE 6 Sec 35 T8N, R69E  
 PERSONNEL T. Smith

PROJECT 79-290-43-621  
BMO-41X

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
t = <u>7200</u> at t' = 0		STATIC WATER LEVEL <u>157.64</u>		READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'	READING	Q		
DAY	CLOCK TIME	t	t'								
	1400	1740		18.96	-6.15	236.45	78.81				
	1500	1800		19.07	-6.15	236.20	78.56				wq sample meter @
	1600	1860		19.04	-6.16	236.25	78.61				389,548 gallons
	1700	1920	x	19.01	-6.17	236.31	78.67				
	1800	1980		19.08	-6.15	236.17	78.53				
	1900	2040		19.10	-6.17	236.10	78.46				
	2000	2100		19.15	-6.15	236.01	78.37				
	2100	2160		19.23	-6.12	235.86	78.22				
	2200	2220		19.24	-6.16	235.79	78.15				wq sample meter
	2300	2280		19.22	-6.17	235.82	78.18				@ 435,710 gal
	0000	2340		19.21	-6.18	235.83	78.19				
	0100	2400	x	19.18	-6.19	235.90	78.26				
	0200	2460		19.12	-6.20	236.02	78.38				
	0300	2520		19.09	-6.20	236.09	78.45				
	0400	2580		19.08	-6.21	236.10	78.46				
	0500	2640		19.12	-6.20	236.02	78.38				
	0600	2700		19.11	-6.21	236.03	78.39				
	0700	2760		19.15	-6.20	235.95	78.31				wq sample meter
	0800	2820		19.16	-6.20	235.93	78.29				@ 495,389 gal
	0900	2880	y	19.10	-6.21	236.05	78.41				DTW = 735.66 @
	1000	2940		19.05	-6.23	236.15	78.51				ST 30 Res.
	1100	3000		19.14	-6.24	235.93	78.29				
	1200	3060		19.29	-6.23	235.59	77.95				wq sample meter
	1300	3120		19.29	-6.24	235.58	77.94				@ 527,700
	1400	3180		19.28	-6.26	235.58	77.94				
	1500	3240		19.30	-6.26	235.53	77.89				
	1600	3300		19.34	-6.27	235.42	77.78				
	1700	3360	x	19.39	-6.27	235.31	77.67				wq sample meter
	1800	3420		19.43	-6.27	237.55	79.91				559,735 gallons
	1900	3480		17.78	-6.26	239.08	81.44				
	2000	3540		17.47	-6.26	239.80	82.16				
	2100	3600		17.31	-6.25	240.18	82.54				meter 586,139 gal
	2200	3660		17.20	-6.24	240.45	82.81				meter 600,000 gal
	2300	3720		17.12	-6.25	240.63	82.97				
	2400	3780		17.15	-6.26	240.55	82.91				
	2500	3840	x	17.07	-6.26	241.54	83.07				
	2600	3900		17.11	-6.26	240.64	83.00				
	2700	3960		17.18	-6.27	240.44	82.82				
	2800	4020		17.22	-6.28	240.36	82.72				
	2900	4080		17.23	-6.28	240.34	82.70				
	3000	4140		17.26	-6.27	240.25	82.64				



# AQUIFER TEST DATA

WELL Hm-5T-1  
 PUMPING or OBSERVATION WELL  
 PUMPING or RECOVERY DATA  
 PAGE 4 OF 6

TYPE OF AQUIFER TEST Constant Discharge  
 HOW Q MEASURED meter  
 HOW W.L.'s MEASURED Survey Recorder  
 RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_  
 MEAS. POINT FOR W.L.'s 290 feet below ground  
 ELEVATION OF MEAS. POINT \_\_\_\_\_

DEPTH OF PUMP/AIRPIPE 290 feet  
 PUMP ON: date 9/8/80 time 0900 hrs  
 PUMP OFF: date 9/13/80 time 0900 hrs  
 DURATION OF AQUIFER TEST 120 hrs

LOCATION 300 ft. S. of TOWN, R. 6 E  
 PERSONNEL J. S. Smith

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
t = <u>7200</u> at t' = 0				STATIC WATER LEVEL <u>157.64</u>				READING	Q		
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'				
	0700	4200		17.26	-6.27	240.28	82.64				W @ Sample Meter
	0800	4260		17.25	-6.26	240.31	82.67				652,510 gal
	0900	4320		17.19	-6.27	240.44	82.80				DTW = 239.91 @
	1000	4380		17.15	-6.26	240.55	82.91				8:00
	1100	4440		17.14	-6.25	240.58	82.94				
	1200	4500		17.15	-6.25	240.56	82.92				
	1300	4560		17.19	-6.25	240.46	82.82				
	1400	4620		17.20	-6.26	240.43	82.79				
	1500	4680		17.09	-6.28	240.66	83.02				W @ sample meter
	1600	4740		17.12	-6.28	240.59	82.95				@ 705,082 gal.
	1700	4800		17.15	-6.28	240.52	82.88				
	1800	4860		17.19	-6.28	240.43	82.79				
	1900	4920		17.21	-6.27	240.39	82.75				
	2000	4980		17.32	-6.27	240.14	82.50				
	2100	5040		17.31	-6.26	240.17	82.53				W.Q. @ 2130
	2200	5100		17.29	-6.26	240.22	82.58				Meter @ 2130 @
	2300	5160		17.24	-6.27	240.32	82.68				748,660
7/11	0000	5220		17.22	-6.28	240.36	82.72				
F	0100	5280	x	17.20	-6.28	240.41	82.77				
	0200	5340		17.20	-6.28	240.41	82.77				
	0300	5400		17.19	-6.27	240.42	82.78				
	0400	5460		17.23	-6.28	240.34	82.70				
	0500	5520		17.20	-6.29	240.41	82.77				
	0600	5580		17.18	-6.29	240.44	82.80				
	0700	5640		17.18	-6.28	240.44	82.80				W @ sample meter
	0800	5700		17.16	-6.27	240.51	82.87				@ 812,910 gal
	0900	5760	x	17.13	-6.28	240.57	82.93				DTW @ 0800
	1000	5820		17.09	-6.28	240.69	83.05				240.28
	1100	5880		17.07	-6.28	240.71	83.07				
	1200	5940		17.06	-6.29	240.72	83.08				
	1300	6000		16.99	-6.31	240.82	83.22				
	1400	6060		16.95	-6.32	240.94	83.30				
	1500	6120		16.96	-6.33	240.91	83.27				
	1600	6180		17.05	-6.35	240.67	83.03				W @ sample meter
	1700	6240	x	17.14	-6.36	240.45	82.81				@ 873,75
	1800	6300		17.24	-6.32	240.26	82.62				DTW 240.25 @
	1900	6360		17.26	-6.32	240.22	82.58				1630h-20
	2000	6420		17.30	-6.33	240.11	82.47				W @ sample meter
	2100	6480		17.27	-6.35	240.16	82.52				@ 807,710 gal
	2200	6540		17.24	-6.35	240.23	82.57				
	2300	6600		17.19	-6.36	240.37	82.69				

PROJECT NY-200  
5010-MX

# AQUIFER TEST DATA

WELL 4u-5T-1  
 PUMPING or OBSERVATION WELL  
 PUMPING or RECOVERY DATA  
 PAGE 5 OF 6

TYPE OF AQUIFER TEST Constant discharge  
 HOW Q MEASURED meters  
 HOW W.L.'s MEASURED Survey Recorder  
 RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_  
 MEAS. POINT FOR W.L.'s 270' below ground  
 ELEVATION OF MEAS. POINT \_\_\_\_\_

DEPTH OF PUMP/AIRPIPE 290ft  
 PUMP ON: date 9/8/80 time 0900  
 PUMP OFF: date 9/13/80 time 0900  
 DURATION OF AQUIFER TEST 120 hrs.

LOCATION SW 8 SE 4 T35 N R66 W  
 PERSONNEL T. Smith

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'	READING	Q			
		t = <u>7200</u> at t' = 0		STATIC WATER LEVEL <u>157.64</u>								
9/8	0000	6660		17.16	-6.37	240.39	82.75					
	0100	6720		17.13	-6.38	240.45	82.81					
	0200	6780		17.14	-6.39	240.42	82.78					
	0300	6840		17.10	-6.40	240.51	82.87					
	0400	6900		17.15	-6.40	240.38	82.74					
	0500	6960		17.16	-6.41	240.34	82.70					
	0600	7020		17.14	-6.41	240.39	82.75					
	0700	7080		17.14	-6.41	240.39	82.75					
	0800	7140		17.18	-6.41	240.30	82.66					
	0900	7200	0	17.16	-6.41	240.34	82.70				WQ sample Meter @ 982.615. 240.00 DTW	
	0901	7201	1	17.38	-6.41	239.83	82.19				Pump off Meter 989,408 gals	
	0902	7202	2	17.63	-6.41	239.25	81.61					
	0903	7203	3	17.98	-6.42	238.42	80.78					
	0904	7204	4	18.33	-6.41	237.62	79.98				Q = 110.6 gpm	
	0905	7205	5	18.68	-6.41	236.80	79.16					
	0906	7206	6	19.05	-6.42	235.92	78.28					
	0907	7207	7	19.41	-6.42	235.08	77.44					
	0908	7208	8	19.78	-6.42	234.22	76.58					
	0909	7209	9	20.13	-6.42	233.40	75.76					
	0910	7210	10	20.47	-6.41	232.62	74.98					
	0911	7211	11	20.82	-6.42	231.79	74.15					
	0912	7212	12	21.17	-6.41	230.99	73.35					
	0913	7213	13	21.52	-6.41	230.17	72.53					
	0914	7214	14	21.86	-6.41	229.38	71.74					
	0915	7215	15	22.21	-6.41	228.56	70.92					
	0916	7216	16	22.54	-6.42	227.78	70.14					
	0917	7217	17	22.88	-6.41	227.00	69.36					
	0918	7218	18	23.21	-6.41	226.23	68.59					
	0919	7219	19	23.54	-6.41	225.46	67.82					
	0920	7220	20	23.86	-6.42	224.70	67.06					
	0921	7221	21	24.19	-6.42	223.93	66.29					
	0922	7222	22	24.51	-6.41	223.20	65.56					
	0923	7223	23	24.82	-6.41	222.46	64.82					
	0924	7224	24	25.13	-6.41	221.75	64.11					
	0925	7225	25	25.45	-6.41	221.00	63.36					
	0926	7226	26	25.75	-6.41	220.50	62.46					
	0927	7227	27	26.06	-6.42	219.57	61.93					
	0928	7228	28	26.36	-6.41	218.85	61.24					
	0929	7229	29	26.66	-6.41	218.18	60.54					
	0930	7230	30	26.96	-6.42	217.47	59.83					

PROJECT 24-290-4-021  
 540-px

# AQUIFER TEST DATA

WELL Hm-ST-1  
 PUMPING or OBSERVATION WELL  
 PUMPING or RECOVERY DATA  
 PAGE 6 OF 6

TYPE OF AQUIFER TEST Constant Discharge  
 HOW Q MEASURED meters  
 HOW W.L.'s MEASURED Survey Recorder  
 RAD./DIST. OF/FROM PUMPING WELL \_\_\_\_\_  
 MEAS. POINT FOR W.L.'s 270 feet below ground  
 ELEVATION OF MEAS. POINT \_\_\_\_\_

DEPTH OF PUMP/AIRPIPE 290 ft  
 PUMP ON: date 9/18/80 time 0900  
 PUMP OFF: date 9/15/80 time 0900  
 DURATION OF AQUIFER TEST 120 hrs

LOCATION SW 1/4, Sec 4, T. 5 N, R. 60 W  
 PERSONNEL J. Sautter

PROJECT 17-240-42-521  
BMU-MX

TIME				WATER LEVEL DATA				DISCHARGE		RECORDED BY	COMMENTS
t = _____		at t' = 0		STATIC WATER LEVEL <u>157.64</u>				READ-ING	Q		
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'				
	0735	7235	35	28.39	-6.41	214.14	56.30				
	0740	7240	40	29.74	-6.41	210.99	53.35				
	0745	7245	45	31.02	-6.41	208.01	50.37				
	0750	7250	50	32.24	-6.41	205.16	47.52				
	0755	7255	55	33.38	-6.42	202.48	44.85				
	1000	7260	60	34.47	-6.41	199.96	42.32				Q = 110 gpm
	1030	7290	90	37.87	-6.42	187.35	29.71				
	1100	7320	120	43.68	-6.42	178.46	20.82				
	1130	7350	150	46.36	-6.43	172.20	14.56				
	1200	7380	180	48.23	-6.43	167.83	10.19				
	1230	7410	210	49.55	-6.43	164.75	7.11				
	1300	7440	240	50.46	-6.44	162.62	4.98				
	1400	7500	300	51.52	-6.44	160.14	2.50				
	1500	7560	360	52.02	-6.45	158.97	1.33				
	1600	7620	420	52.27	-6.45	158.38	0.74				
	1700	7680	480	52.39	-6.45	158.10	0.46				
	1800	7740	540	52.46	-6.45	157.94	0.30				
	1900	7800	600	52.50	-6.44	157.86	0.22				
	2000	7860	660	52.52	-6.42	157.84	0.20				
	2100	7920	720	52.54	-6.41	157.80	0.16				
	2200	7980	780	52.55	-6.41	157.78	0.14				
	2300	8040	840	52.56	-6.41	157.75	0.11				
11/4	0000	8100	900	52.57	-6.40	157.74	0.10				
	0100	8160	960	52.58	-6.41	157.71	0.07				
	0200	8220	1020	52.59	-6.40	157.70	0.06				
	0300	8280	1080	52.60	-6.40	157.67	0.03				
	0400	8340	1140	52.61	-6.40	157.65	0.01				
	0500	8400	1200	52.61	-6.39	157.65	0.01				
	0600	8460	1260	52.62	-6.38	157.65	0.01				
	0700	8520	1320	52.63	-6.36	157.65	0.01				
	0800	8580	1380	52.64	-6.35	157.65	0.01				
	0900	8640	1440	52.64	-6.35	157.65	0.01				
				End Test							