

LOCATION: Hamlin Valley
 PERSONNEL: R. Whitworth, D. Boylan

PROJECT: 79-290-43-621

Can't Seal
Flow

GL04822

WELL Hm-S-0-1

WELL CONSTRUCTION SUMMARY

LOCATION or COORDS: T8N, R69E
Section 35dc

ELEVATION: GROUND LEVEL 5760 5834.36
 TOP OF CASING 5761 5836.22

DRILLING SUMMARY:

TOTAL DEPTH 520'
 BOREHOLE DIAMETER 9.9"-Pilot Hole
Reamed to 17.5"
 DRILLER Scott Stephenson
R. Mangelson
A. McPhearson
 RIG RT 1800
 BIT(S) TRICONE
 DRILLING FLUID BENTONITE & VTE
 SURFACE CASING 35'

WELL DESIGN:

BASIS: GEOLOGIC LOG GEOPHYSICAL LOG

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

<u>320</u>	<u>C</u>		
<u>320</u>	<u>420</u>	<u>S</u>	
<u>420</u>	<u>435</u>	<u>C</u>	

CASING: C1 _____
 C2 _____
 C3 _____
 C4 _____
 SCREEN: S1 _____
 S2 _____
 S3 _____
 S4 _____

CENTRALIZERS WALVT

FILTER MATERIAL PEA GRAVEL

CEMENT _____

OTHER _____

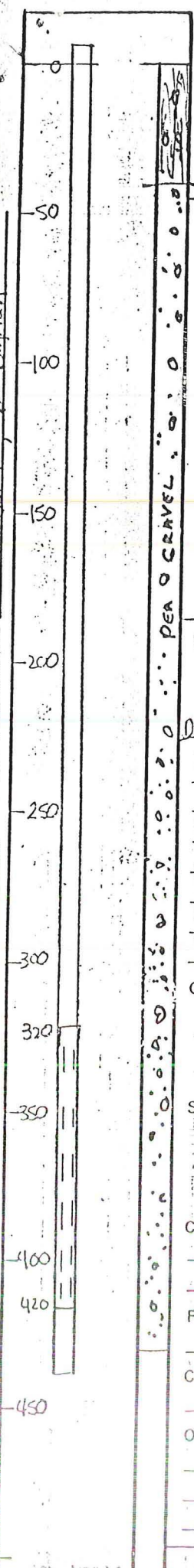
CONSTRUCTION TIME LOG:

TASK	START		FINISH	
	DATE	TIME	DATE	TIME
DRILLING: <u>Initial</u>	<u>8/6/80</u>	<u>0830</u>	<u>8/7/80</u>	<u>1005</u>
GEOPHYS. LOGGING:	<u>8/7/80</u>	<u>1135</u>	<u>8/7/80</u>	<u>1405</u>
CASING:				
FILTER PLACEMENT:				
CEMENTING:				
DEVELOPMENT:				
OTHER:				

WELL DEVELOPMENT

COMMENTS:

BEGAN HOLE AS TEST WELL BUT
CAVING PROBLEMS OCCURED AND
WELL WAS CONVERTED TO OBSERVATION
WELL



PEA GRAVEL

LOC. or COORDS. Hawkins Valley
 T&E PL. Sec 35dC
 GROUND ELEV. 5750 ft.
 TOTAL DEPTH 520 ft
 BOREHOLE DIAM. 9.9 in.

DRILLER Scott Clemons & Son Drilling
1100 N. Main St. Phoenix
4800 E. McDowell
 RIG WILKINS Pneumatic RT-1800
 BIT(S) Button, Tricone
 FLUID Bentonite Mud

START FINISH
 DATE 8/16/50 8/17/50
 TIME 6:00 10:05
 GEOPHYS. LOG YES NO
 HOW LEFT CASED

LOCATION Hawkins Valley, Nevada
 LOGGED BY R.W. Wainwright, D. Boylin

PROJECT Yellow Spruce Project
N. Water Resources Project

DEPTH	PENE RATE	CIRC ACT LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
0 ft	NA			SAND		SAND, (0-10') () yellowish BRN (10yr 5/6) lt. yellow (10yr 4/4) silt. 5%, med sd to f. sd. 95% (carb 95%, s 3 5%), ms to us, sd-ang to subang, structureless, n.p., no stky, no concret, str hel rdn, no chips prob in dia of bit.
10 ft	NA			SAND		SAND (10-20') () lt. yellowish BRN (10yr 6/4) med brn (10yr 6/3); silt. 5%, med sd to f. sd. (carb 95%, s 3 5%) ms to us, sd-ang to subang, structureless, n.p., no stky, no concret, str hel rdn, no chips prob in dia of bit.
20 ft	NA			SAND		SAND (20-30') () lt. yellowish BRN (10yr 6/4) pale brn (10yr 6/3); TR. Gul up to 10mm (carb 95%, s 3 5%) ms to us, sd-ang to subang, structureless, n.p., no stky, no concret, str hel rdn, no chips prob in dia of bit.
30 ft	NA			SAND		SAND (30-40') () dk yellow BRN (10yr 4/2) gray (10yr 4/1); TR. Gul up to 20mm (carb 95%, s 3 5%) ms to us, ang to subang, structureless, no concret, n.p., no stky, str hel rdn.
40 ft	NA			SAND		SAND (40-50') () lt. yellow BRN (10yr 6/4) med brn (10yr 6/3); TR. Gul up to 15mm (carb 95%, s 3 5%) ms, ang to subang, structureless, no concret, n.p., no stky, str hel rdn.
50 ft	NA			SAND		SAND (50-60') () yellowish BRN (10yr 6/4) lt. yellow (10yr 6/3); TR. F. sd, med to cs sd (carb 95%, s 3 5%) TR. Gul up to 10mm ms, ang to subang, structureless, no concret, n.p., no stky, str hel rdn.
60 ft	NA			SAND		SAND (60-70') () yellowish BRN (10yr 6/4) layered, dk (10yr 6/2); med sd (95% carb, 5% silt); TR. Gul up to 10mm (carb 95%, s 3 5%) ms to us, sd-ang, subang, structureless, n.p., no stky, no concret, str hel rdn.
70 ft	NA			SAND		SAME AS ABOVE
80 ft						

LOC. or COORDS. Hemlock Valley
 TSN, RGR, 35A
 GROUND ELEV. 6750
 TOTAL DEPTH 530 FT
 BOREHOLE DIAM. 7.9 IN.

DRILLER Scott (Ted) Johnson Drilling
MARKER Mark Johnson
Russel Markle-SON
 RIG 44000 Pneumatic RT-1800
 BIT(S) Hyton TRICONE
 FLUID Barite mud

START DATE 9/16/80 FINISH DATE 9/17/80
 TIME 1400 1005
 GEOPHYS. LOG YES NO
 HOW LEFT Closed

LOCATION Hemlock Valley, N.C.
 LOGGED BY P.W. Whitaker, D. Bayler

PROJECT Shallow-Aquifer Program
MX Water Resources Project

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
80 FT	NA			SAND		SAND (80'-90') () BRN (10% 5/3) 20% (10% 4/3), med sd - (CWB 90% 15%) 75% (10% 10%) up to 15mm, MS, sd - ANG - SUBIND, v. - ANG, streakless, N.P., No STKY, No CORN, STR EXN HCL.
90 FT	NA			SAND		SAND (90'-100') () (10% 7/2) (10% 5/2) med to cs sd - 100% (95% 10% 5%) MS, ANG to SUBIND, streakless, N.P., No STKY, No CORN, STR HCL EXN.
100 FT	NA			SAND		SAND (100'-110') () (10% 5/2) (10% 5/2) med to cs sd - (CWB 90% 10%) 10% (10% 10%) MS, sd - ANG to SUBIND, streakless, N.P., No STKY, No CORN, STR - MOD HCL EXN.
110 FT	NA			CLAY SAND		SAND (110'-120') () v. pale (10% 5/4) (10% 5/3) cl - 10% med to cs sd - 75% (CWB 90% 10%) 10% (10% 10%) 20mm (CWB 10% - 10%) PS-MS, sd - ANG to SUBIND, v. - ANG to SUBIND, streakless, N.P., STKY, STR HCL EXN.
120 FT	NA			SAND		SAND (120'-130') () (10% 5/2) (10% 5/2) med sd - 100% (10% 10% 10%) 10% (10% 10%) streakless, N.P., No STKY, No CORN, STR HCL EXN.
130 FT	NA			CLAY SAND		CLAY SAND (120'-140') () v. pale (10% 7/4) (10% 5/4) (10% 5/4) cl - 10% silt - 10%, FSD to cs sd - 75% (CWB 90% 10%) 10% (10% 10%) 20mm (CWB 10% - 10%) PS-MS, sd - ANG to SUBIND, v. - ANG to SUBIND, streakless, N.P., STKY, PS, No CORN, STR HCL EXN.
140 FT	NA			CLAY SAND		CLAY SAND (140'-150') () v. pale (10% 7/4) (10% 5/4) (10% 5/4) cl - 10% silt - 5%, FSD to cs sd - 85% (CWB 90% 10%) 10% (10% 10%) 20mm (CWB 10% - 10%) PS to MS, sd - v. ANG to SUBIND, streakless, N.P., STKY, No CORN, STR HCL EXN.
150 FT	NA			CLAY SAND		CLAY SAND (150'-160') () (10% 5/2) (10% 5/2) cl - 10% silt - 5%, FSD to cs sd - 80% (CWB 95% 5%) 20mm (10% 10%), sd - ANG to SUBIND, v. - ANG to SUBIND, streakless, N.P., STKY, No CORN, STR HCL EXN.
160 FT						

LOCATION HAMILTON VALLEY
 LOGGED BY P.W. MILLINGTON, D. BOYER
 PROJECT SANITARY ADULTER PROJECT
MX WATER RESOURCES PROJECT

LOC. or COORDS. HAMILTON VALLEY
T&N, R19E, 35.00
 GROUND ELEV. 575 FT
 TOTAL DEPTH 575 FT
 BOREHOLE DIAM. 7.9 IN

DRILLER Scottie Brown / Billie
Walter Matheson
Russell Matheson
 RIG CHICAGO ENEMATIC RT-1500
 BIT(S) BULLAY TRIANGLE
 FLUID BENTONITE MUD

START FINISH
 DATE 5/11/80 5/17/80
 TIME 7900 1005
 GEOPHYS. LOG YES
 HOW LEFT RK 670

DEPTH	PENE. RATE	CIRC RET	AIRLIFT LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
160 FT	VA				SAND		SAND (160-170') () dk. BROWN (w/ 10YR 6/3) (1YR 7/2) silty 5%, med sd to fsd - 95% (Cobb 50%, 2% WS, sd - med to sub med, STUCKLESS, N.P., NO CONSOL, STR MED RYN
170 FT	NH				SAND		SAME AS ABOVE
180 FT	NA				SAND		SAME AS ABOVE
190 FT	NA				CLAY SAND		CLAY SAND (190-200') () dk. BROWN (w/ 10YR 6/3) (1YR 7/2) cl - 15%, silty 5%, med to fsd - 85% (Cobb 40%, 10% WS to MS, sd - med to sub med, STUCKLESS, N.P., STRY, NO CONSOL, STR MED RYN.
200 FT	NA				SAND		SAND (200-210') () dk. BROWN (w/ 10YR 6/3) (1YR 7/2) silty 5%, med - CS sd (Cobb 50%, 10%) WS to WS, sd - med to sub med, STUCKLESS, N.P., silty, NO CONSOL, STR-MED MED RYN
210 FT	NA				SAND		SAND (210-220') () dk. BROWN (w/ 10YR 6/3) (1YR 7/2) silty 5%, med - CS sd (Cobb 50%, 10%) WS, sd - med to sub med, STUCKLESS, N.P., NO CONSOL, STR-MED MED RYN
220 FT	NA				CLAY SAND		CLAY SAND (220-230') () dk. BROWN (w/ 10YR 7/2) (1YR 7/2) silty 5%, med - CS sd (Cobb 50%, 10%) WS, sd - med to sub med, STUCKLESS, N.P., NO CONSOL, STR-MED MED RYN
230 FT	NA				SAND		SAND (230-240') () dk. BROWN (w/ 2.5YR 2/3) (1YR 7/2) silty 5%, med - CS sd - 90% (Cobb 70%, 10% WS, med to sub med) MS, sd - med to sub med, STUCKLESS, N.P., silty, NO CONSOL, STR-MED RYN
240 FT							

LOC. or COORDS. Hawthorn Valley
 TRN, E69E, 2520
 GROUND ELEV. 5750 ft
 TOTAL DEPTH 320 ft
 BOREHOLE DIAM. 7.9 IN

DRILLER Scott Sturdevant Drilling
INDIAN NIX MECHANICAL
RUSSELL MANGIACON
 RIG CHICAGO - MERRITT RT-1510
 BIT(S) Button, PILE
 FLUID Barite mud

START DATE 8/1/50 FINISH DATE 8/27/50
 TIME 1:00 1:15
 GEOPHYS. LOG YES NO
 HOW LEFT Disc

LOCATION Hawthorn Valley, N. 1/4 Sec 17, T. 17N, R. 17E
 LOGGED BY W. H. ...
RECORDED BY T. ...

PROJECT Water Resources Project

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
240ft	NA			SAND		SAME AS ABOVE - ONLY AVERAGE SAND SIZE IS LARGER; A MEDIUM SAND
250ft	NA			CLAY SAND		CLAY SAND (250'-260') () dk grey (w/nc 1/2) weak med (d 2.5 r 1/2) cl-10%, silt-5%, med sd-85% (prob 80%), frag met ex 40%, G-10% MS, sd-frag, scaleless, n.p., stky, no chert, MOD HEL RXN
260ft	NA			SAND		SAND (260'-270') () dk grey (w/nc 2.5 r 1/2) weak med (d 2.5 r 1/2) cl-5%, silt-5%, med sd-75% (prob 60%), frag met ex 30%, G-10% MS, sd-frag, scaleless, n.p., stky, no chert, MOD HEL RXN
270ft				CLAY SAND		CLAY SAND (270'-280') () weak med (d 2.5 r 1/2) weak med (d 2.5 r 1/2) cl-30%, silt-5%, med cs sd (prob 60%), frag met ex 30%, G-10% MS, sd-frag, scaleless, n.p., stky, no chert, MOD-STR HEL RXN
280ft	NA			SAND		SAND (280'-290') () dk grey (w/nc 1/2) weak med (d 2.5 r 1/2) TR cl, silt 5%, med cs sd-75% (prob 70%), G-20% frag met ex 5%, MS, sd-frag, scaleless, n.p., stky, no chert, STR HEL RXN
290ft	NA			SAND		SAME AS ABOVE
300ft	NA			SAND		SAND (300'-310') () dk grey (w/nc 1/2) weak med (d 2.5 r 1/2) TR cl, silt 5%, med cs sd-95% (prob 90%), G-10%, frag met ex 5%, MS, sd-frag, scaleless, n.p., stky, no chert, STR HEL RXN
310ft	NA			CLAY SAND		CLAY SAND (310'-320') () dk grey (w/nc 1/2) weak med (d 2.5 r 1/2) cl-10%, silt 5%, med cs sd-85% (prob 90%), G-10% frag met ex 5%, MS, sd-frag, scaleless, n.p., stky, no chert, STR HEL RXN
320ft						

LOC. or COORDS. Hawlin Valley
T8N, R19E, S11.358E
 GROUND ELEV. 57.50 ft.
 TOTAL DEPTH 20 FT
 BOREHOLE DIAM. 9.9 IN

DRILLER Scott E. Hansen Drilling
4012 N. Mac Donald
Wesley, Minnesota
 RIG Chicago Pneumatic RT-1500
 BIT(S) Bitton, Tricone
 FLUID Bentonite Mud

START 8/06/80 FINISH 8/07/80
 DATE 0900 TIME 1005
 GEOPHYS. LOG YES NO
 HOW LEFT C. T. SCD

LOCATION Hawlin Valley, Minnesota
 LOGGED BY R. Anderson, Distribution
 # 11 " TON No. 11"

PROJECT Shallow Aquifer Project
MX 11-358E-358E Project

DEPTH	PENE. RATE	CIRC RET. LOSS	AIRLIFT O (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
320 ft	NA			Clay Sand		Clay Sand (320-330') () (10 yr 6/2) CL-10%, Silt-5%, Med sd - 85% (14B 85% Q ₃ 10%, Fragmet Rx 5%), TR up to 2.5m (14B 10%) MS, sd - ANG to SUBRD, GVK - ANG to SUBRD, STAPLESS, N.P., STRY, No Consoh, STR HEL PXN.
330 ft	NA			Clay Sand		Clay Sand (330-340') () SAME AS ABOVE
340 ft	NA			Clay Sand		Clay Sand (340-350') () SAME AS ABOVE EXCEPTION: TR GVK IS MISSING, CS sd FRACTION APPEARS
350 ft	NA			Clay Sand		Clay Sand (350-360') () SAME AS ABOVE
360 ft	NA			Clay Sand		Clay Sand (360-370') () SAME AS ABOVE BUT EXCEPTION: CS sd FRACTION IS MISSING
370 ft	NA			Clay Sand		Clay Sand (370-380') () SAME AS ABOVE
380 ft	NA			Clay Sand		Clay Sand (380-390') () SAME AS ABOVE
390 ft	NA			SAND		SAND (390-400') () (10 yr 5/2) CL-10%, Silt-5%, Med sd - 95% 90%, Q ₃ 10%, TR Fragmet Rx MS TO WS, sd - ANG to SUBRD STAPLESS, N.P., STRY, No Consoh, STR HEL PXN
400 ft						

LOCATION HANBLIN Valley, Maryland
 LOGGED BY R. WILKINSON, D. DAVLAN
 RELOGGED BY T. NORFOLK

PROJECT SHALLOW AQUIFER PROGRAM
MX WATER RESOURCES PROJECT

LOC. or COORDS. HANBLIN Valley
T8N, R69E, 35dc
 GROUND ELEV. 5750 ft
 TOTAL DEPTH 520 ft
 BOREHOLE DIAM. 9.9 IN
 DRILLER Scott Johnson DRILLING
ANDREW MacPACSON
RUSSEL MANULESON
 RIG CHICAGO PATENT RT-1800
 BIT(S) Bottom TRIPLE
 FLUID Benitrite MUD
 START 8/10/80 FINISH 8/12/80
 DATE 8/10/80 TIME 1005
 GEOPHYS. LOG YES NO
 HOW LEFT CASCO

DEPTH	PENE RATE	CIRC RET LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
400ft	NA			SAND		SAND (400'-410') () dk grey (w/ 10yr 4/2) w/ brn (210yr 5/2) TRCL, silt 35%, med sd - 95% (Qz 80%, 0.3 20%), MS, sd - ANG to SUBANG, STRUCKLESS, N.P., SSTRY, No consol., STR HCL RXN
410ft	NA			SAND		SAND (410'-420') () SAME AS ABOVE EXCEPTION - sd is F to med
420ft	NA			SAND		SAND (420'-430') () SAME AS ABOVE
430ft	NA			SAND		SAND (430'-440') () SAME AS ABOVE EXCEPTION: possibly up to 5% cl.
440'	NA			SAND		SAND (440'-450') SAME AS ABOVE
450'	NA			SAND		SAND (450'-460') () SAME AS ABOVE EXCEPTION: Qz in sd ~ 10%
460'	NA			SAND		SAND (460'-470') () SAME AS ABOVE EXCEPTION: cl possibly up to 5%
470'				SAND		SAND (460'-470') () SAME AS ABOVE EXCEPTION: avg grain size of sd slightly less but still a med sd.
480'						

LOCATION Hamelin Valley, Nevada
 LOGGED BY R. WILKINSON, D. BOYLAN

PROJECT SHAWAN Aquifer Program
MAX WATER RESOURCES Project

LOC. or COORDS. Hamelin Valley
T8N, R19E, Sec 35 DE
 GROUND ELEV. 5750 FT
 TOTAL DEPTH 520 FT
 BOREHOLE DIAM. 9.9 INCHES

DRILLER Scott STEPHANSON Drilling
ANDREW MacNEARSON
RUSSEL MINDELSON
 RIG CHICAGO AXOMATIC RT-1800
 BIT(S) BUTTON TRIGONE
 FLUID BENTONITE

START FINISH
 DATE 8/6/80 8/07/80
 TIME 0700 1005
 GEOPHYS. LOG YES NO
 HOW LEFT CASED

DEPTH	PENE RATE	CIRC ACT LOG	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
480'	NA			SAND		SAND (480'-490') (dk grey (w/ 10yr 4/2) GRYPN (10yr 5/2), TRCL, SLT-5%, MED SD-95% (CARB 75%, Q3 25%), WS, SD-ANG-SUBANG, STAPLESS, N.P. NO STRY, NO CONSOL.
490'	NA			SAND		SAND (490'-500') () SAME AS ABOVE
500'	NA			SAND		SAND (500'-510') () SAME AS ABOVE
510'	NA			CLAY SAND		SAND (510'-520') () GRYP (10yr 5/1) GRYP (10yr 4/4) CL-20% SLT-5% MED SAND-75% (CARB 80%, Q3 20%), MS, SD-ANG to SUBANG, STAPLESS, N.P., STRY, NO CONSOL.
520'						

AQUIFER TEST DATA

WELL Hm-50-1

PUMPING or OBSERVATION WELL

PUMPING or RECOVERY DATA

PAGE 1 OF 6

TYPE OF AQUIFER TEST Constant rate pumping

HOW Q MEASURED Flowmeter

HOW W.L.'s MEASURED Open Recovery

RAD./DIST. OF/FROM PUMPING WELL 500 ft

MEAS. POINT FOR W.L.'s 250' below ground surface

ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____

PUMP ON: date 7/8/80 time 0900

PUMP OFF: date 9/13/80 time 0900

DURATION OF AQUIFER TEST _____

LOCATION 3W4 SE4 Sect. 35, T4N R19E
PERSONNEL T. Smith

PROJECT 71-20-13-041

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
DAY	CLOCK TIME	t	t'	READING	CONVERSIONS CORRECTIONS	WATER LEVEL	s or s'	READING	Q			
						STATIC WATER LEVEL <u>175.57 ft.</u>						
A	0835			58.04	-6.13	↑	↑					Water level probe
M	0840			58.05	-6.13							zero offset = 0
	0847			58.04	-6.13							sensitivity = 0.982
	0850			58.05	-6.13							range = 50 psi
	0857			58.04	-6.13							
	0902			58.04	-6.13							
	0907			58.04	-6.13							
	0912			58.04	-6.13							Barometric Probe
	0917			58.04	-6.13							zero offset = +0.09
	0922			58.04	-6.13	175.57	(0.00)					sensitivity = 0.987
	0927			58.04	-6.13							range = 50 psi
	0932			58.04	-6.13							
	0937			58.04	-6.13							
	0942			58.05	-6.13	↓	↓					
	0900	0		58.05	-6.13	175.57	0.00					Pump On
	0901	1		58.04	-6.13	175.57	0.00					172,985 gal/hr
	0902	2		58.04	-6.13	175.57	0.00					water
	0903	3		58.03	-6.13	175.57	0.00					
	0904	4		58.01	-6.13	175.60	-0.03					
	0905	5		57.97	-6.13	175.62	0.05					
	0906	6		57.95	-6.13	175.66	0.09					
	0907	7		57.93	-6.13	175.71	0.14					
	0908	8		57.91	-6.13	175.74	0.17					
	0909	9		57.89	-6.13	175.78	0.21					
	0910	10		57.87	-6.13	175.81	0.24					
	0911	11		57.85	-6.13	175.84	0.29					
	0912	12		57.83	-6.13	175.88	0.31					
	0913	13		57.81	-6.13	175.93	0.36					
	0914	14		57.79	-6.13	175.95	0.38					
	0915	15		57.78	-6.13	175.97	0.42					
	0916	16		57.76	-6.13	176.01	0.44					
	0917	17		57.74	-6.13	176.04	0.47					
	0918	18		57.72	-6.13	176.05	0.48					
	0919	19		57.70	-6.13	176.08	0.51					
	0920	20		57.68	-6.13	176.11	0.54					
	0921	21		57.66	-6.13	176.13	0.56					
	0922	22		57.64	-6.13	176.16	0.59					
	0923	23		57.62	-6.13	176.19	0.62					
	0924	24		57.60	-6.13	176.20	0.63					
	0925	25		57.58	-6.13	176.21	0.64					

AQUIFER TEST DATA

WELL Hm. 50-1
 PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 2 OF 6

TYPE OF AQUIFER TEST Constant Discharge
 HOW Q MEASURED meter
 HOW W.L.'s MEASURED Survey Rods
 RAD./DIST. OF/FROM PUMPING WELL 500 ft
 MEAS. POINT FOR W.L.'s 250' below ground surface
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 9/8/80 time 2700 hrs
 PUMP OFF: date 9/13/80 time 0900 hrs
 DURATION OF AQUIFER TEST _____

LOCATION East Set Sect 25 T8N R9E
 PERSONNEL J. Smith

PROJECT ...

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
t = _____ at t' = 0		STATIC WATER LEVEL <u>175.57 ft</u>			READING	CONVERSIONS CORRECTIONS	WATER LEVEL	s or s'	READ- ING	Q		
DAY	CLOCK TIME	t	t'									
	926	26			57.47	-6.13	176.23	0.66				
	927	27			57.45	-6.12	176.27	0.70				
	928	28			57.43	-6.13	176.28	0.71				
	929	29			57.41	-6.12	176.31	0.74				
	930	30			57.41	-6.12	176.32	0.75				
	931	31			57.35	-6.12	176.39	0.82				
	935	40			57.31	-6.12	176.42	0.85				
	935	45			57.27	-6.12	176.48	0.91				
	950	50			57.23	-6.12	176.53	0.96				
	955	55			57.21	-6.12	176.55	0.98				
	1000	60			57.19	-6.12	176.53	1.01				
	1030	90			57.11	-6.12	176.67	1.10				
	1100	100			57.07	-6.12	176.72	1.15				
	1130	150			57.05	-6.13	176.73	1.16				
	1200	180			57.03	-6.13	176.75	1.18				
	1230	210			57.03	-6.13	176.75	1.18				
	1200	240			57.02	-6.14	176.75	1.18				
	1400	300			57.01	-6.14	176.76	1.19				
	1500	360			57.00	-6.14	176.78	1.21				
	1600	410			56.95	-6.15	176.82	1.25				
	1700	460			56.90	-6.14	176.84	1.30				
	1800	540			56.91	-6.14	176.88	1.31				
	1900	600			56.91	-6.12	176.91	1.34				
	2000	660			56.89	-6.12	176.92	1.35				
	2100	720			56.90	-6.11	176.93	1.36				
	2200	780			56.97	-6.10	176.95	1.38				
	2300	840			56.95	-6.10	176.94	1.37				
	14500	900			56.91	-6.12	176.93	1.36				
	1500	960	x		56.91	-6.13	176.92	1.35				
	1600	1020			56.89	-6.13	176.92	1.35				
	1700	1080			56.87	-6.14	176.92	1.35				
	1800	1140			56.88	-6.14	176.92	1.35				
	1900	1200			56.87	-6.13	176.94	1.37				
	2000	1260			56.81	-6.13	176.94	1.37				
	2100	1320			56.87	-6.12	176.95	1.38				
	2200	1380			56.83	-6.12	176.92	1.39				STW = 176.94 ft @ 0700
	2300	1440	x		56.89	-6.13	176.95	1.41				
	2400	1500			56.87	-6.13	176.97	1.42				
	2500	1560			56.84	-6.13	176.97	1.42				
	2600	1620			56.82	-6.13	176.99	1.43				
	1300	1680			56.81	-6.14	176.97	1.31				

AQUIFER TEST DATA

WELL Hm-50-1
 PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 4 OF

TYPE OF AQUIFER TEST Steady State
 HOW Q MEASURED Notes
 HOW W.L.'s MEASURED Open Recorder
 RAD./DIST. OF/FROM PUMPING WELL 500 ft
 MEAS. POINT FOR W.L.'s 250' from pump
 ELEVATION OF MEAS. POINT

DEPTH OF PUMP/AIRPIPE
 PUMP ON: date 9/8/80 time 0700
 PUMP OFF: date 9/13/80 time 0700
 DURATION OF AQUIFER TEST

LOCATION
 PERSONNEL

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
D	CLOCK	t	t'	READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'	READING	Q			
	0700	4200		56.50	-6.27	177.14	1.57					
	0800	4260		56.56	-6.26	177.13	1.58					
	0900	4320	X	56.55	-6.27	177.15	1.58					
	1000	4380		56.55	-6.26	177.17	1.60					
	1100	4440		56.56	-6.25	177.17	1.60					
	1200	4500		56.56	-6.25	177.17	1.60					
	1300	4560		56.57	-6.25	177.15	1.58					
	1400	4620		56.56	-6.26	177.15	1.58					
	1500	4680		56.55	-6.28	177.14	1.57					
	1600	4740		56.55	-6.28	177.14	1.57				177.22' fc @ 1604 hrs	
	1700	4800	X	56.55	-6.28	177.14	1.57					
	1800	4860		56.55	-6.28	177.14	1.57					
	1900	4920		56.55	-6.27	177.15	1.58					
	2000	4980		56.55	-6.27	177.15	1.58					
	2100	5040		56.55	-6.26	177.17	1.60					
	2200	5100		56.54	-6.26	177.18	1.61					
	2300	5160		56.55	-6.27	177.15	1.58					
	2400	5220		56.54	-6.28	177.15	1.58					
	2500	5280	X	56.54	-6.28	177.15	1.58					
	2600	5340		56.53	-6.28	177.17	1.60					
	2700	5400		56.54	-6.29	177.14	1.57					
	2800	5460		56.53	-6.28	177.17	1.60					
	2900	5520		56.53	-6.29	177.15	1.58					
	3000	5580		56.53	-6.29	177.15	1.58					
	3100	5640		56.53	-6.28	177.17	1.60					
	3200	5700		56.53	-6.27	177.18	1.61					
	3300	5760	X	56.52	-6.28	177.18	1.61	1.70	57.09 ft			
	3400	5820		56.52	-6.28	177.18	1.61					
	3500	5880		56.52	-6.28	177.18	1.61					
	3600	5940		56.51	-6.29	177.15	1.61					
	3700	6000		56.51	-6.31	177.15	1.62					
	3800	6060		56.50	-6.32	177.15	1.58					
	3900	6120		56.49	-6.33	177.15	1.58					
	4000	6180		56.48	-6.35	177.14	1.57	0.114			177.25' @ 1630 hrs	
	4100	6240		56.48	-6.36	177.13	1.56					
	4200	6300		56.48	-6.37	177.13	1.60					
	4300	6360		56.48	-6.38	177.13	1.61					
	4400	6420		56.48	-6.38	177.13	1.61					
	4500	6480		56.48	-6.38	177.13	1.61					
	4600	6540		56.48	-6.38	177.13	1.61					
	4700	6600		56.48	-6.38	177.13	1.61					
	4800	6660		56.48	-6.38	177.13	1.61					
	4900	6720		56.48	-6.38	177.13	1.61					
	5000	6780		56.48	-6.38	177.13	1.61					

PROJECT

AQUIFER TEST DATA

WELL Hm-50-1
 PUMPING or OBSERVATION WELL
 PUMPING or RECOVERY DATA
 PAGE 5 OF 6

TYPE OF AQUIFER TEST constant discharge
 HOW Q MEASURED ACTU
 HOW W.L.'s MEASURED Sumo Recorder
 RAD./DIST. OF/FROM PUMPING WELL 20 ft
 MEAS. POINT FOR W.L.'s 250 feet below ground
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 7/18/50 time 0900
 PUMP OFF: date 7/13/50 time 0900
 DURATION OF AQUIFER TEST _____

LOCATION West of Sec 35 T4N R3E
 PERSONNEL J. S. ...
 PROJECT Bldg - 401

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
t = <u>7200</u> at t' = 0		STATIC WATER LEVEL <u>175.57</u>			READING	CONVERSIONS OF CORRECTIONS	WATER LEVEL	s or s'	READING	Q		
DAY	CLOCK TIME	t	t'									
7/13	0000	6660			56.45	-6.37	177.15	1.58				
5	0100	6720	x		56.44	-6.38	177.15	1.58				
	0200	6780			56.43	-6.39	177.15	1.58				
	0300	6840			56.41	-6.40	177.17	1.60				
	0400	6900			56.41	-6.40	177.17	1.60				
	0500	6960			56.40	-6.41	177.18	1.61				
	0600	7020			56.40	-6.41	177.18	1.61				
	0700	7080			56.39	-6.41	177.18	1.61				
	0800	7140			56.39	-6.41	177.18	1.61				
	0900	7200	0	x	56.38	-6.41	177.18	1.61				Pump off
	0901	7201	1		56.38	-6.41	177.18	1.61				989, 408 gals
	0902	7202	2		56.39	-6.41	177.18	1.61				on meter
	0903	7203	3		56.40	-6.42	177.15	1.58				
	0904	7204	4		56.42	-6.41	177.14	1.57				Q = 110.6 gpm
	0905	7205	-		56.44	-6.41	177.12	1.55				
	0906	7206	6		56.48	-6.42	177.14	1.49				
	0907	7207	7		56.50	-6.42	177.61	1.44				
	0908	7208	8		56.56	-6.42	176.97	1.40				
	0909	7209	9		56.60	-6.42	176.92	1.35				
	0910	7210	10		56.64	-6.41	176.93	1.31				
	0911	7211	11		56.67	-6.42	176.94	1.27				
	0912	7212	12		56.71	-6.42	176.90	1.23				
	0913	7213	13		56.74	-6.41	176.77	1.20				
	0914	7214	14		56.78	-6.41	176.72	1.15				
	0915	7215	15		56.81	-6.41	176.68	1.11				
	0916	7216	16		56.83	-6.42	176.65	1.08				
	0917	7217	17		56.86	-6.41	176.62	1.05				
	0918	7218	18		56.89	-6.41	176.59	1.02				
	0919	7219	19		56.91	-6.41	176.57	1.00				
	0920	7220	20		56.93	-6.42	176.54	0.97				
	0921	7221	21		56.95	-6.42	176.51	0.94				
	0922	7222	22		56.97	-6.41	176.49	0.92				
	0923	7223	23		56.99	-6.42	176.46	0.89				
	0924	7224	24		57.00	-6.41	176.44	0.89				
	0925	7225	25		57.05	-6.41	176.40	0.85				DTW - 176.57
	0926	7226	26		57.09	-6.41	176.31	0.80				
	0927	7227	27		57.06	-6.42	176.37	0.83				
	0928	7228	28		57.07	-6.41	176.38	0.81				
	0929	7229	29		57.08	-6.41	176.37	0.80				
	0930	7230	30		57.07	-6.42	176.34	0.77				

AQUIFER TEST DATA

WELL Am-50-1
 PUMPING of OBSERVATION WELL
 PUMPING of RECOVERY DATA
 PAGE 6 OF 6

TYPE OF AQUIFER TEST constant discharge
 HOW Q MEASURED meter
 HOW W.L.'s MEASURED 50 ft. Sling Recorder
 RAD./DIST. OF/FROM PUMPING WELL 50 ft.
 MEAS. POINT FOR W.L.'s 250 feet below ground
 ELEVATION OF MEAS. POINT _____

DEPTH OF PUMP/AIRPIPE _____
 PUMP ON: date 9/8/80 time 0900
 PUMP OFF: date 9/13/80 time 0900
 DURATION OF AQUIFER TEST _____

LOCATION Salt Lake City, Utah
 PERSONNEL F. Smalley
 PROJECT 11-240-7-1-01

TIME				WATER LEVEL DATA					DISCHARGE		RECORDED BY	COMMENTS
t = <u>7200</u>		at t' = 0		STATIC WATER LEVEL <u>175.57</u>					READ-ING	Q		
D A Y	CLOCK TIME	t	t'	READING	CONVERSIONS OR CORRECTIONS	WATER LEVEL	s or s'					
	0935	7235	35	57.15	-6.41	176.28	0.71					
	0940	7240	40	57.19	-6.41	176.24	0.67					
	0945	7245	45	57.23	-6.41	176.19	0.62					
	0950	7250	50	57.26	-6.41	176.15	0.58					
	0955	7255	55	57.29	-6.42	176.11	0.54					
	1000	7260	60	57.31	-6.41	176.09	0.52					
	1030	7290	90	57.39	-6.42	175.99	0.42					
	1100	7320	120	57.43	-6.42	175.94	0.37					
	1130	7350	150	57.46	-6.43	175.89	0.32					
	1200	7380	180	57.48	-6.43	175.87	0.30					
	1230	7410	210	57.50	-6.43	175.85	0.28					
	1300	7440	240	57.51	-6.44	175.82	0.25					
	1400	7500	300	57.53	-6.44	175.80	0.23					
	1500	7560	360	57.54	-6.45	175.78	0.21					
	1600	7620	420	57.56	-6.45	175.75	0.18					
	1700	7680	480	57.57	-6.45	175.74	0.17					
	1800	7740	540	57.58	-6.45	175.73	0.16					
	1900	7800	600	57.60	-6.44	175.72	0.15					
	2000	7860	660	57.61	-6.42	175.73	0.16					
	2100	7920	720	57.62	-6.41	175.73	0.16					
	2200	7980	780	57.64	-6.41	175.71	0.14					
	2300	8040	840	57.65	-6.41	175.69	0.12					
	2400	8100	900	57.67	-6.40	175.68	0.11					
	2500	8160	960	57.69	-6.41	175.66	0.09					
	2600	8220	1020	57.70	-6.40	175.65	0.08					
	2700	8280	1080	57.71	-6.40	175.63	0.06					
	2800	8340	1140	57.73	-6.40	175.61	0.04					
	2900	8400	1200	57.74	-6.39	175.61	0.04					
	3000	8460	1260	57.75	-6.39	175.61	0.04					
	3100	8520	1320	57.77	-6.38	175.61	0.04					
	3200	8580	1380	57.78	-6.35	175.61	0.04					
	3300	8640	1440	57.80	-6.35	175.59	0.02					