

WELL CONSTRUCTION SUMMARY

LOCATION or COORDS: T17S R15W Sec 17 NE 1/4 SW 1/4

ELEVATION: GROUND LEVEL _____
TOP OF CASING 4' above surface

DRILLING SUMMARY:

TOTAL DEPTH 310'
 BOREHOLE DIAMETER 9 7/8"
 DRILLER Dean Mitchell
 RIG Chicago Pneumatic RT-1800
 BIT(S) button tri-cone 9 7/8"
 DRILLING FLUID bentonitic mud
 SURFACE CASING none

WELL DESIGN:

BASIS: GEOLOGIC LOG GEOPHYSICAL LOG
 CASING STRING(S): C=CASING S=SCREEN

+4'	- 56'	C	-	-
56'	- 276'	S	-	-
276'	- 296'	C	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

CASING: C1 +4' - 56'
 C2 276' - 296'
 C3 _____
 C4 nk
 SCREEN: S1 56' - 276'
 S2 _____
 S3 _____
 S4 _____

CENTRALIZERS none

FILTER MATERIAL 1/2" to fine pea gravel
20' - 200'

CEMENT grout 0' - 20'
10:1 portland cement : bentonite

OTHER _____

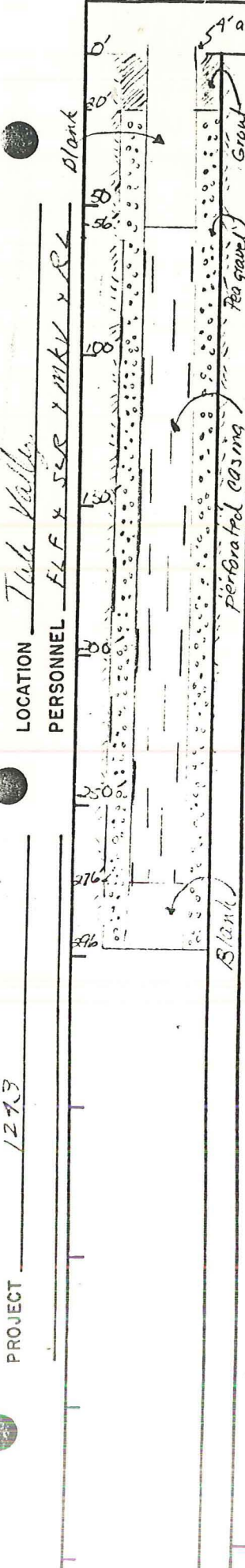
CONSTRUCTION TIME LOG:

TASK	START		FINISH	
	DATE	TIME	DATE	TIME
DRILLING: <u>9 7/8"</u>	<u>7-21-80</u>	<u>1330</u>	<u>7-22</u>	<u>1930</u>
GEOPHYS. LOGGING:	<u>7-22</u>	<u>2100</u>	<u>7-22</u>	<u>2210</u>
CASING: <u>2 1/2" OD casing</u>	<u>7-22</u>	<u>2215</u>	<u>7-22</u>	<u>2300</u>
FILTER PLACEMENT:	<u>7-22</u>	<u>2300</u>	<u>N/A</u>	<u>N/A</u>
CEMENTING:	<u>7-23</u>		<u>N/A</u>	<u>N/A</u>
DEVELOPMENT:	<u>7-23</u>		<u>N/A</u>	<u>N/A</u>
OTHER:				

WELL DEVELOPMENT

COMMENTS:

scale 1" = 50'
screen(s) is 1/2" x 2 1/2" mill cut perforated pipe



LOCATION Tule Valley
 PERSONNEL ELF x SSR x MKV x RL
 PROJECT 1273

LOG OF BOREHOLE

BOREHOLE TU-5-0-2
PAGE 1 OF 2

LOC. or COORDS. <u>7th Valley 17th St</u> <u>T179, R15W, S17 N34 W</u> GROUND ELEV. <u>4500 feet</u> TOTAL DEPTH <u>300</u> BOREHOLE DIAM. <u>9 7/8"</u>	DRILLER <u>Dean Mitchell</u> RIG <u>Chicago Pneumatic RT-180</u> BIT(S) <u>9 7/8" tricone</u> FLUID <u>Bentonite + Soda ash</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>7-21-80</u></td> <td><u>7-27-80</u></td> </tr> <tr> <td>TIME <u>1445</u></td> <td><u>1840</u></td> </tr> <tr> <td colspan="2">GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</td> </tr> <tr> <td colspan="2">HOW LEFT <u>Cased</u></td> </tr> </table>	START	FINISH	DATE <u>7-21-80</u>	<u>7-27-80</u>	TIME <u>1445</u>	<u>1840</u>	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		HOW LEFT <u>Cased</u>	
START	FINISH											
DATE <u>7-21-80</u>	<u>7-27-80</u>											
TIME <u>1445</u>	<u>1840</u>											
GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO												
HOW LEFT <u>Cased</u>												

LOCATION 7th Valley 17th St
 LOGGED BY ELF, CLR, MRY, RWL

 PROJECT 1243-512
Hydrogeologic Logging
Hydrogeology

DEPTH	PENE. RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM. BOL	DESCRIPTION and COMMENTS
0						
20	40 ft/hr			Sandy-silty Gravel		Sandy-silty gravel, limestone fragments approx. 5mm dia. subrounded-subangular with some rhombohedral white calcite fragments. Clay matrix (70%), yellow in color no structure, plasticity good, moderately sticky with the overall material being poorly consolidated. Positive acid test on gravel chips.
	50.					
	37.5					
40	25.					
	60.					
	43.					
	12.					
60	10.5					
	9.					
	23.					
80	23.					
	15.					
	30.					
	5.1					
	7.3					
100	11.					
	15.					
	7.1					
110	7.1					
	8.6					
	6.7					
	2.0					
	8.1					
140	8.3					
	12.					
	6.					
	13.6					
170						

LOG OF BOREHOLE

BOREHOLE TU-5-0-2
PAGE 2 OF 2

LOC. or COORDS. _____	DRILLER _____	START DATE <u>7-21-80</u>	FINISH DATE <u>7-22-80</u>
GROUND ELEV. _____	_____	TIME <u>1445</u>	<u>1840</u>
TOTAL DEPTH _____	RIG _____	GEOPHYS. LOG <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
BOREHOLE DIAM. _____	BIT(S) _____	HOW LEFT _____	
_____	FLUID _____	_____	

PROJECT 247.80 Sh. Sh. Drilling
 LOCATION Tule Valley, Ukiah
 LOGGED BY ELE, SLR, MMY, RW
Map Project Filed

DEPTH	PENE RATE	CIRC. RET. LOSS	AIRLIFT Q (gpm)	MATERIAL	SYM-BOL	DESCRIPTION and COMMENTS
-160	12.					See page 1
	25.					
	16.					
-180	30.					
	30.					
	30.					
	37.5					
-200	27.					
	30.					
	30.					
	14.					
-220	12.					
	37.					
	20.					
-240	15.					
	16.2					
-260	16.2					
	17.6					
-280	15.					
	20.					
-300				TD, 300		