

PERC**WELL CHRONOLOGY REPORT**

REPORT DATE : 11/16/97 MD : 2,434 TVD : 0 DSS : 6 DOL : 5 MW : 9.9 VISC : 29

DAILY DETAILS : DRLG 1877' TO 1939'. SURVEY 2 1/2 DEG @ 1899'. DRLG 1939' TO 2127', SURVEY 2 1/2 DEG @ 2085'. DRLG 2127' TO 2220', SURVEY 3 1/2 DEG @ 2189'. DRLG 2220' TO 2376', SURVEY 2 3/4 DEG @ 2399'. DRLG 2376' TO 2434'. ART: DRLG W/FULL RETURNS.

REPORT DATE : 11/17/97 MD : 2,751 TVD : 0 DSS : 7 DOL : 6 MW : 10.0 VISC : 29

DAILY DETAILS : DRLG 2434' TO 2439'. SR. DRLG 2439' TO 2751'. DRLG 14' TO 16' P/HR W/FULL RETURNS.

REPORT DATE : 11/18/97 MD : 3,460 TVD : 0 DSS : 8 DOL : 7 MW : 10.0 VISC : 29

DAILY DETAILS : DRLG 2751' TO 2782'. SR. DRLG 2782' TO 2844'. SURVEY 2 1/4 DEG @ 2844'. DRLG 2844' TO 2990'. LOST FULL RETURNS @ 2990'. (DRLG BREAK 2990' TO 2993'). DRY DRLG 2990' TO 3460'. DRLG W/NO RETURNS. PUMPED 225 BBLs LCM IN SWEEPS (24 HRS.) LOST SURVEY WAS 2 1/4 DEG @ 3242'.

REPORT DATE : 11/19/97 MD : 4,205 TVD : 0 DSS : 9 DOL : 8 MW : 8.5 VISC : 28

DAILY DETAILS : DRLG 3460' TO 3487'. SR. DRLG 3487' TO 3723'. SURVEY 2 1/4 DEG @ 3723'. DRLG 3723' TO 4205'. CIRC. TD 12 1/4" HOLE @ 7:00 AM. DRLG 2990' TO 4205' WITH NO RETURNS, LOSS 200 + BBLs. MUD IN SWEEPS. ART: CIRC. FOR SHORT TRIP. NO TIGHT SPOTS FROM 2990' TO TD. INCURRED WHILE DRLG.

REPORT DATE : 11/20/97 MD : 4,205 TVD : 0 DSS : 10 DOL : 9 MW : 8.5 VISC : 28

DAILY DETAILS : CIRC. SHORT TRIP. CIRC. TOH & LD 7-8" DC'S. RU CSG CREW & RAN CSG. & CMT. BUMP PLUG @ 1:30 AM ON 11/19/97 960 PSI. OPEN DV TOOL 950 PSI. PUMPED 30 BBLs F/WATER. RU ON RIG PUMP. PUMPED 200+ BBLs F/WATER. SD WOC 4 HRS. ON 11/20/97 PUMPED 2ND STAGE CMT. BUMP PLUG CLOSING DV TOOL 1600 PSI. RD BJ. WOC. CUT OFF CSG. SET SLIPS, INSTALL CSG HEAD. NU BOP.

CSG & CMT DETAIL:

1-8 5/8" GUIDE SHOE STC	1.45
1-8 5/8" 32# J55 CSG STC	43.93
1-8 5/8" FLOAT COLLAR STC	1.20
35-8 5/8" 32# J55 CSG	1539.39
1-8 5/8" DV TOOL	2.55
10-8 5/8" 32# J55 CSG	482.48
49-8 5/8" 24# J55 STC	2137.76
TOTAL CASING	4208.76
CUT OFF	21.76
CASING LEFT IN HOLE	4187.00
KB	17.00
CASING LADED KB	4204.00

RAN 2 CENTERLIZERS: RAN 95 JTS. 8 5/8" CSG THREAD LOCKED SHOE, FLOAT COLLAR, 3 JTS. CSG., DV TOOL @ 2620.29'.

CMT 1ST STAGE: W/685 SX 50-50 POZ CLASS C + 10% GEL + .5% SALT, 11.92 PPG, YIELD. TAIL W/200 SXS CLASS C NEAT + 1% CACL 14.81 PPG, YIELD. 2ND STAGE: W/825 SXS 50-50 POZ CLASS C + 10% GEL + 5% ALT, 11.92 PPG, YIELD 2.35. TAIL W/150 SX CLASS C NEAT + 2% CACL 14.81 PPG YIELD 1.33. FLOAT HELD OK.

