

WELL CHRONOLOGY REPORT

REPORT DATE : 1/20/98 MD : 2,672 TVD : 0 DSS : 5 DOL : 4 MW : 9.9 VISC : 28

DAILY DETAILS : DRLG 2405' TO 2443'. SURVEY 2 DEG @ 2405'. SR. DRLG 2443' TO 2615'. TRIP FOR HOLE IN DP 13 STDS. DRLG 2615' TO 2622'. ART: DRLG W/FULL RETURNS.

REPORT DATE : 1/21/98 MD : 3,166 TVD : 0 DSS : 6 DOL : 5 MW : 9.9 VISC : 28

DAILY DETAILS : DRLG 2672' TO 2725'. SR. DRLG 2725' TO 2750'. RD (PUMP) DRLG 2750' TO 2944'. SURVEY 1 DEG @ 2903'. DRLG 2944' TO 3166'. ART: DRLG W/95% TO 100% RETURNS.

*LOST 20% RETURNS @ 2885'. MIX PIT OF LCM PUMPED 25 BBLS SWEEPS AT 2916' AND 2944' - 2980' - 3012'.

REPORT DATE : 1/22/98 MD : 3,881 TVD : 0 DSS : 7 DOL : 6 MW : 9.9 VISC : 28

DAILY DETAILS : DRLG FROM 3166' TO 3196' (LOST RETURNS @ 3196'). DRY DRLG 3176' TO 3553'. SR. DRY DRLG 3353' TO 3374'. RUN SURVEY 1 DEG @ 3334', 1 DEG @ 3836'. DRY DRLG 3374' TO 3881'. ART: DRY DRLG @ 28 TO 30 FT/HR.

REPORT DATE : 1/23/98 MD : 4,200 TVD : 0 DSS : 8 DOL : 7 MW : 9.9 VISC : 28

DAILY DETAILS : DRY DRLG FROM 3881' TO 4200' CIRC SPOT 40 BBLS, 60 VIS MUD, MADE SHORT TRIP, CIRC HOLE 1/2 HRS. PUMP 60 BBLS PILL ON BTM. TOH & LD 7-8" DC'S. RU & RUN CSG. ART: RUNNING 8 5/8" CSG @ 3200' +

REPORT DATE : 1/24/98 MD : 4,200 TVD : 0 DSS : 9 DOL : 8 MW : VISC :

DAILY DETAILS : RUNNING 8 5/8" CSG. 1/2 HR CIRC. RU BJ & CEMENTED 1ST STAGE. WOC 4 HOURS. CEMENTED 2ND STAGE. WOC 4 HRS. ND BOP & CUT OFF 8 5/8" CSG & WELDED ON 8 5/8" WELLHEAD. NU BOP & TESTING CSG. DETAIL BELOW:

1 - 8 5/8" GUIDE SHOE	1.50
1 - 8 5/8" 32# J-55 ST&C CSG SHOE JT	41.50
1 - 8 5/8" FLOAT COLLAR	1.20
35 - 8 5/8" 32# J-55 ST&C CSG	1592.60
1 - 8 5/8" DV TOOL	2.55
7 - 8 5/8" 32# J-55 ST&C CSG	304.64
52 - 8 5/8" 24# J-55 ST&C CSG	2263.38
TOTAL CSG	4207.37
CUT OFF	24.37
CSG LEFT IN HOLE	4183.00
KB	17.00
CSG LANDED KB	4200.00

CENTRALIZERS ON JTS #35 & #37 THREADLOCKED AND WELDED SHOE AND BOTTOM THREE & DV TOOL. CEMENT 1ST STAGE: W/685 SX 50/50 POZ CLASS "C" + 10% GEL + 5% SALT, WT 11.92 PPG, YIELD 2.35 CU FT/SK WATER 13.41 GALS/SX. TAIL W/200 SX CLASS "C" NEAT +1% CACL2, WT 14.81 PPG, YIELD 1.33 CU FT/SK. PLUG DOWN 11:06 AM 1/23/98. CEMENT 2ND STAGE W/825 SX 50/50 POZ CLASS "C" + 10% GEL + 5% SALT, WT 11.92 PPG, YIELD 2.35 CU FT/SKS, WTR 13.41 GALS/SK. TAIL W/150 SX CLASS "C" NEAT + 2% CACL2, WT 14.81 PPG, YIELD 1.33 CU FT/SK, WTR 6.32 GALS/SK. CLOSED DV TOOL. PLUG DOWN AT 3:48PM 1/23/98.

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REPORT DATE : 1/25/98 MD : 4,759 TVD : 0 DSS : 10 DOL : 9 MW : 8.4 VISC : 28

DAILY DETAILS : NU BOP. TESTED BOP & CSG. PICKED UP 7-6" DC. TIH. DRLG CMT & DV TOOL. TIH. DRLG CMT. DRLG NEW FORMATION 4200' TO 4281'. RUN SURVEY AT 4241'=1 1/2DEG. DRLG FROM 4281' TO 4719'. RUN SURVEY AT 4679'=3/4DEG. DRLG 4719' TO 4759'. REPORT TIME: DRILLING AT 4759' W/FULL RETURNS.

REPORT DATE : 1/26/98 MD : 5,557 TVD : 0 DSS : 11 DOL : 10 MW : 8.3 VISC : 28

DAILY DETAILS : PRESENT OPT: 5557' - DRILLING W/FULL RETURNS. DRILLED 798' IN 23 1/4 HOURS. SURVEY AT 5177'=1DEG.

REPORT DATE : 1/27/98 MD : 6,062 TVD : 0 DSS : 12 DOL : 11 MW : 8.5 VISC : 34

DAILY DETAILS : DRILL 5557' TO 6062' (505'). SURVEY AT 5673'=1DEG. MAKE TRIP FOR HOLE IN DP. FOUND HOLE @ 41 STANDS + SINGLE. RIH & CONTINUE DRILLING. REPORT TIME: DRILLING AHEAD WITH FULL RETURNS.

REPORT DATE : 1/28/98 MD : 6,368 TVD : 0 DSS : 13 DOL : 12 MW : 8.6 VISC : 34

DAILY DETAILS : DRILL 6062' - 6118'. SURVEY 1 DEG @ 6076'. DRILL 6188' - 6233'. TRIP FOR HOLES IN DP. LD JTS #4, 20, 89 & 104. DRILL 6233' - 6368'. ART: DRLG @ 6368' W/FULL RETURNS.

REPORT DATE : 1/29/98 MD : 6,630 TVD : 0 DSS : 14 DOL : 13 MW : 8.5 VISC : 34

DAILY DETAILS : DRILL 6368' - 6429'. SR. DRILL 6429' - 6551'. REPAIR RIG. DRILL 6551' - 6630'. CIRC. SHORT TRIP. CIRC. LD DP & DC'S. TD @ 6630' @ 11:15 PM ON 1/28/98. ART: LD DC'S.

REPORT DATE : 1/30/98 MD : 6,630 TVD : 0 DSS : 15 DOL : 14 MW : 8.5 VISC : 34

DAILY DETAILS : RD ALLENS LD MACHINE. RU HALLIBURTON LOGGING UNIT. RAN GR SPECTRAL DENSITY, DUAL SPACED NEUTRON 4163 - 6614. RD HALLIBURTON. RU ALLENS CASING CREW. RAN 147 JTS. 5 1/2" CSG. RU BJ SERVICES. CEMENTED. DISPLACED W/10 BBLS FW FOLLOWED BY 147 BBL 2% KCL WATER. FULL RETURNS THRU OUT JOB. CEMENT DID NOT CIRC. PLUG DOWN @ 8:30 PM ON 1/29/97. FLOAT HELD. NP BOP. SET SLIPS, CUT OFF 5 1/2". WELD ON WELL HEAD. RU WL & RAN TEMP SURVEY. TOP OF CMT @ 170' FROM SURFACE. RELEASE RIG @ 3:30 AM ON 1/30/98.

CSG & CMT DETAIL:

1-5 1/2" FLOAT SHOE	1.50
1-5 1/2" CSG SHOE JTS. 15.50 J55 LTC	45.42
1-5 1/2" FLOAT COLLAR LTC	2.00
146-5 1/2" CASING 15.50 J55 LTC	6596.79

RAN 10 CENTERLIZERS: 1ST ON BTM JT, THEN 1 JT ABOVE FLOAT COLLAR, THEN ON JTS #141, 137, 133, 129, 125, 121, 117 & 113. THREAD LOCK SHOE, SHOE JTS & FLOAT COLLAR. CEMENT W/1000 SKS 50-50 POZ CL"C" + 2% GEL + 5% FL-62, YIELD 1.25 CU FT/SX, WTR 13.41 GAL/SX. DISPLACE CMT W/10 BBLS FRESH WATER, FOLLOWED BY 148 BBLS 2% KCL.

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REPORT DATE : 2/16/98 MD : 6,630 TVD : 0 DSS : 16 DOL : 15 MW : 8.5 VISC : 34

DAILY DETAILS : MOVE IN & RIG UP WSU. SET PIPE RACKS & MOVE WORK STRING. ND WELLHEAD & NU BOP. PICKED UP & RAN 4 3/4" ROCK BIT, X-OVER, & 218 JTS 2 7/8" WORK STRING. TAGGED PBTD AT 6,582'. CIRCULATED HOLE WITH 170 BBL 2% KCL WATER. TOH WITH TBG.

REPORT DATE : 2/17/98 MD : 6,630 TVD : 0 DSS : 17 DOL : 16 MW : 8.5 VISC : 34

DAILY DETAILS : RIG UP HOLMES WIRELINE TRUCK. WIRELINE TD 6572'. RAN GR/CCL FROM 6572' TO 4200'. PULL OUT OF HOLE & PICK UP PERF GUN. RAN IN HOLE AND GOT ON DEPTH. PERF 6434' - 6456' WITH 2 SPF, 90DEG PHASING, USING 19 GRAM CHARGE VIA A HOLLOW STEEL CARRIER. HAD VERY SLIGHT BLOW AFTER PERFING. 46 HOLES. RIG DOWN WIRELINE TRUCK. TIH W/ARROW HD TREATING PKR, SN, & 2 7/8" WORK STRING. SPOT 100 GAL 15% NEFE HCL ACROSS PERFS. PULLED PKR TO 6300' & PUMPED 5 BBL WATER DOWN BACK SIDE. SET PKR & ACIDIZED PERFS WITH REMAINING 2900 GAL NEFE HCL, CONTAINING 3 GAL CORROSION INHIBITOR, 3 GAL NE AGENT, 6 GAL CALY STABILIZER, 3 GAL IRON REDUCER, & 3 GAL SUSPENDER. DROPPED 79 BALLS. HAD VERY SLIGHT BALL ACTION. FORMATION BROKE AT 2600 PSI. AVERAGE RATE 3.9 BPM, MAX RATE 4.1 BPM, AVG PRESSURE 1700 PSI, MAX PRESSURE 1890 PSI, ISIP 1380 PSI, 5 MIN 950 PSI, 10 MIN 480 PSI, 15 MIN 190 PSI. FLUSHED WITH 100 BBL 2% KCL WATER. RIG DOWN REEF.

REPORT DATE : 2/18/98 MD : 6,630 TVD : 0 DSS : 18 DOL : 17 MW : 8.5 VISC : 34

DAILY DETAILS : REMOVE WSU SLIPS AND INSTALL RENTAL SLIPS. RIG DOWN WSU. DITCH & INSTALL INJECTION FROM EDGE OF LOCATION TO WELL. INSTALL INJECTION EQUIPMENT ON WELLHEAD & START INJECTING WATER AT 5:00 PM.

REPORT DATE : 2/25/98 MD : 6,630 TVD : 0 DSS : 19 DOL : 18 MW : VISC :

DAILY DETAILS : MIRU WSU. Unset PKR. Pick up 5 jts 2 7/8" tbg & run pkrs thru perfs. Layed down 80 jts 2 7/8" Work strung. Shut down by hi winds.

REPORT DATE : 2/26/98 MD : 6,630 TVD : 0 DSS : 20 DOL : 19 MW : VISC :

DAILY DETAILS : Finish TOH laying down 2 7/2 work string and PKR. ND BOP & NU well head. Rig down and release WSU.

REPORT DATE : 3/3/98 MD : 6,630 TVD : 0 DSS : 21 DOL : 20 MW : VISC :

DAILY DETAILS : Rig up BJ. Had safety meeting. Tested lines to 4,000 psi. Held OK. Acidize and frac down 5 1/2" csg. Pumped 2,000 gal 15% NEFE HCL containing 2 gal CI-25, 4 gal

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REPORT DATE : 3/16/98

MD : 6,630TVD : 0DSS : 23DOL : 22 MW :

VISC :

DAILY DETAILS : Rig up WSU, ND well head, NU BOP, and ran 2 3/8" X 5 1/2" arrowset 1-X5, Inj pkr (nickel coated), 2 3/8" X 5 1/2" T2 on-off tool w/ 1.78 F, 55 profile nipple w/ SS body, 201 jts 2 3/8" 8rd upset IPC tubing. Bottom of pkr @ 6369'. Pumped 120 bbl fresh water mixed w/ 50 gallons Baker Petrolite pkr fluid, ND BOP & NU well head. Rig down WSU.
