

7/16/ 0 363 WOC. SPUDDED 4:00 pm 7/15/80. Ran 8 jts 8-5/8" 24# K-55 ST&C csg (349.40') set @ 363'KB. Ran Halliburton GS & 3 cntrlzrs. Hallib cmt'd w/200 sx Cl "B", 2% CaCl, 1/4# flocele/sx. PD 1:00 am 7/16/80. Circ'd 5 bbls cmt. 1/4" @ 363'. 100 RPM, all wt. Spud mud. B#1, 12-1/4", Sm., DT, made 363' in 5-1/2 hrs.

7/17/80 1625 Drlg. Press up 1000# on BOP - OK. 1/4" @ 784', 1/2" @ 1275'. 70 RPM, 40M#. Drlg w/Benex & wtr. (B#2).

7/18/80 2675 Drlg. 1/4" @ 2105' & 2630'. 70 RPM, 40M#. Drlg w/wtr & benex. B#2, 7-7/8", HTC, J-22, made 1742' in 21-1/2 hrs. (B#3).

7/19/80 3753 Drlg. 1/2" @ 3546'. 70 RPM, 40M#. Drlg w/Benex & wtr. (B#3).

7/20/80 4550 Drlg. 1/4" @ 3542'. 70 RPM, 40M#. Drlg w/Benex & wtr. (B#3).

7/21/80 5032 Drlg. 1/2" @ 5013'. 70 RPM, 40M#. Drlg w/Benex & wtr. B#3, 7-7/8", Sm., F-2, made 2908' in 71-1/2 hrs. (B#4).

7/22/80 5501 Drlg. Mud up 5250'. Made 2 trips f/holes in DP (1 - 8th std & 1 - 3rd std). 70 RPM, 40M#. Mud: 8.9#, vis 40, WL 10.2, solids 4.25%, Gels 2/10, Pv 7, Yld 3, Ph 8.5, Sd tr, FC 2/32, Cl 350, Ca 60. (B#4).

7/23/80 5940 Drlg. 3/4" @ 5548'. 70 RPM, 40M#. Mud: 9#, vis 40, WL 10.6, solids 6.5%, Gels 3/10, Pv 12, Yld 5, Ph 8.5, Sd tr, FC 2/32, Cl 400, Ca 60. (B#4).

7/24/80 6288 Drlg. 1" @ 6047'. 70 RPM, 40M#. Mud: 9#, vis 40, WL 9.6, solids 8.75%, Gels 1/6, Pv 6, Yld 2, Ph 8.5, Sd tr, FC 2/32, Cl 350, Ca 40 (B#4).

7/25/80 6577 Drlg. 1" @ 6100'. 70 RPM, 40M#. Mud: 9.4#, vis 45, WL 9.4, solids 7.25%, gels 3/10, Pv 8, Yld 3, Ph 8.5, sd tr, FC 2/32, Cl 400, Ca 60 (B#4).

7/26/80 6615 LD DP. Reached TD @ 9 am 7/25/80. Schl ran logs DIL/SFC & CNL/FDC. 1-1/4" @ 6615'. 70 RPM, 40M#. Mud: 9.4#, vis 53, WL 8.6, solids 7.25%, gels 6/16, Pv 18, Yld 10, Ph 8.5, sd tr, FC 2/32, Cl 350, Ca 60. B#4, 7-7/8", Sm., F-3, made 1602' in 92-1/2 hrs.

7/27/80 6615 TD - Fin LD DP & DC. Ran 153 jts 4-1/2" 10.50# J-55 STC (6635.55'), set @ 6615', FC @ 6598' DV @ 2243'. Ran Bkr fit, HOWCO shoe & DV, 5 cntrlzrs (1st jt & every clr & 1 on ea jt above & below DV). Scratchers 10' apart f/6480-6580' & 2 cmt bsks. Pmpd 10 bbls mud flush & cmt w/315 sx 35/65 Poz w/14% gel, 12-1/2# gilsonite/sx; foll w/290 sx 50/50 Poz, 2% gel & .75% CFR-2. PD @ 5 pm 7/26/80. LC 30 bbls before pmpg plug. Opn DV tol & circ 3-1/2 hrs. Pmpd 10 BM flush. Cmt thru DV w/390 sx 55/35 Poz, 14% gel & 12-1/2# gilsonite/sx. PD 9:45 pm 7/26/80. Circ 2 bbls cmt. ND BOP. Set slips. CO csg. RR 12 MN 7/26/80. Mud: 9.4#, vis 53, WL 8.6, solids 7.5%, gels 6/15, Pv 18, Yld 10, Ph 8.5, sd tr, FC 2/32, Cl 350, Ca 60.

7/28/80 6615 TD - WO completion. Fin moving out rig.

7/29-30/80 6615 TD - WO completion.

7/31/80 6615 TD - GIH to CO. MI & RU. NU BOP. Unload & meas 223 jts tbg. TIH w/bit & csg scraper. Tag up on DV tool @ 2243'. Drl out DV tool. SDON.

8/1/80 6615 TD - TIH to 6540' to spt 100 gals 15% HCl. Fin TIH. Tag fill @ 6540'. CO to 6580'. Circ hole clean w/2% KCl wtr. POH. RU Schl - ran CBL. Found top of cmt @ 4180'; 100% bond 6580-6442'; 80-100% 6442-6410'; 100% 6410-6358'; 60-80% 6358-6250'; 80-100% 6250-6100'; 60-80% 6100-5950'; 100% 5950-5920'; 40% 5920-5880'; 100% 5880-5250'; 60-80% 5250-5120'; 20-40% 5120-4180'; 20-40% 2280-714'.

8/2/80 6615 TD - POH w/tbg to frac. TIH to 6540' w/tbg. Spt 100 gals 15% HCl. PCF. Perf Dakota 6480', 83', 86', 89', 92', 95', 98', 6503', 07', 11', 14', 18', 20', 22', 25', 29', 32', 35'. Brk dn w/HCl @ 1900#. Trtd w/1000 gals 15% HCl & 36 ball sealers @ 5 BPM @ 1200#. Balled off @ 3500#. Held 10 min. Rel'd press, cleared acid f/tbg. ISIP 0#, 1 hr SI. Found fld 1300' w/swb. Swbd dry.