

6/23/80 529 WOC. SPUD 4:00 pm 6/22/80. Ran 13 jts 8-5/8" 24# K-55 ST&C R3 csg (515.70'), set @ 529'. 3 cntrlzrs & fiber baffle & Texas pattern shoe. Woodco cmt w/350 sx Cl "B" w/2% CaCl, 1/4# flocele/sx. PD 3:00 am 6/23/80. 1° @ 529'. 100 RPM, all wt. Spud mud. B#1, 12-1/4", Sec., S-3 (RR), made 529' in 7 hrs.

6/24/80 1790 Drlg. Press up BOP to 1200#, OK. Drld 38' cmt. 70 RPM, 45M#. Drlg w/Benex & wtr. 1° @ 1066' & 1565'. (B#2).

6/25/80 2990 Drlg. 1° @ 1988'. 70 RPM, 45M#. Drlg w/Benex & wtr. (B#2).

6/26/80 3090 Drlg. Lost cone off B#2. WIH & rmd 70'. Ran magnet & rec'd cone. 3/4° @ 3015'. 70 RPM, 45M#. B#2, 7-7/8", Reed, HP51, made 2486' in 38 hrs. B#3, 7-7/8" HTC, OSCIG, rmd approx 70' hole. (B#4).

6/27/80 4007 Drlg. 1/2° @ 3552'. 70 RPM, 45M#. Drlg w/Benex & wtr. (B#4).

6/28/80 4930 Drlg. 3/4° @ 4114 & 4647'. 70 RPM, 45M#. Drlg w/wtr & Benex. (B#4).

6/29/80 5787 Drlg. 3/4° @ 5239'. 70 RPM, 45M#. (B#4).

6/30/80 6319 Drlg. 1/2° @ 5995'. 70 RPM, 45M#. (B#4). Mud: 8.9#, vis 42. Lost circ @ 5933'. Lost approx 200 BM. Mud up @ 5933'.

7/1/80 6544 Drlg. Repaired air chamber on #1 pmp. 2-3/4° @ 6475'. 70 RPM, 45M#. Mud: 9.1#, vis 42, WL 12, solids 6%, Gels 2/4, Pv 5, Yld 8, Ph 8.5, Sd tr, FC 2/32, Cl 300, Ca 80. B#4, 7-7/8", SM., F-2, made 3460' in 102-3/4 hrs. (B#5).

7/2/80 6674 TD - Lost approx 300 BM @ 6631'. TD hole @ 3:30 pm 7/1/80. Schl ran DIL FSL, FDC, CNL, CND, DIL @ 6661'. Pipe strap off. Had to GIH & drl 10' after logging 70 RPM, 45M#. Mud: 9.3#, vis 54, WL 7.8, Solids 9.5, Gels 4/14, Pv 20, Yld 13, Ph 8.5, Sd tr, FC 2/32, Cl 350, Ca 40. B#5, 7-7/8", Sm., F-3, made 199' in 13 hrs.

7/3/80 6674 TD - RD & MORT. Ran 159 jts 4-1/2" 10.5# J-55 ST&C csg (6684.15'), Hall flt, shoe & DV tool, set @ 6674' KB. (Ft @ 6628' KB & DV tool @ 2261'). Ran 5 cntrlz: 1 in middle of 1st jt & ea clr; 1 cntrlzr on ea side of DV tool; 2 cmt bsks below DV tool (1st jt below & next jt under); also ran 10 scratchers 10' apart f/6520-6620'. Cmtd 1st stage w/10 BM flush & 315 sx 65/35 Poz, 14% gel, 12-1/2# gilsonite/sx; foll w/290 sx 50/50 Poz, 2% gel, d/4% CFR-2. Gd circ thruout job. PD 1st stage @ 7 pm 7/2/80. Cmtd 2nd stage 2/10 BM flush & 420 sx 65/35 Poz, 14% gel, 12-1/2# gilsonite/sx. Circ'd 10 sx cmt to surf. Gd circ thruout job. PD 12 MN 7/2/80. PU BOP, set slips, cut off csg. RR 2:00 am 7/3/80. Mud: 9.3#, vis 54, WL 7.8, Solids 9.5, Gels 4/14, PV 20, Yld 13, Ph 8.5, Sd tr, FC 2/32, Cl 350, Ca 40.

7/4-7/80 6674 TD - WO Completion.

7/8/80 6674 TD - Drlg on DV tool @ 2260'. MI & RU (Rig 9). NU csghead & BOP. Unload & meas 223 jts (6903'). TIH w/3-7/8" bit, csg scraper & 73 jts 2-3/8" tbg tagged DV tool @ 2260'. Drlg on DV tool. SDON.

7/9/80 6674 TD - Prep to press tst csg. Drld up DV tool @ 2260'. CO to FC @ 6628'. Circl hole w/2% KCl wtr. POH. Ran CBL w/var dens GR Correl log f/PBTD 6628' & found top of cmt @ 3646', & f/2260 to top of cmt @ 2100'. 100% bond f/6628-5200'; 90-95% bond f/4490-5200'; 85-90% bond f/4490-4400'; 85-95% bond f/4400-3900'; 90-95% bond f/3900'-top of cmt @ 3650'; 40-45% bond f/DV tool @ 2260'-top of cmt @ 2100'. TIH w/tbg to 6614' OE. Hauling wtr to fill frac tanks.

7/10/80 6674 TD - POH to run base temp survey. Press tstd csg to 4000# - held steady for 5 mins. Sptd 150 gals 15% HCl @ 6614'. POH. RU DA perf'd Dakota/Graneros @ follwg: 6448', 50', 52', 79', 81', 6526', 30', 34', 38', 42', 46', 50', 52', 54', 58', 62', 66', 70', 74', 79', 98', 6601', 03' & 05' - 24 holes. All meas DA CBL Gamma correl log 7/8/80 correl to Schlum CNL/FDC 7/1/80. TIH w/tbg & pkr to 6300'. Broke dwn perfs @ 600#. Est inj rate of 5 BPM @ 3200#. Trtd w/ 1250 gals 15% HCl & 48 ball sealers @ 4 BPM @ 1600#. Had complete ball off after 16 bbl acid. Held 4000# f/15 mins. Bled off press. Displ 14 bbls acid @ 4 BPM @ 2000#. ISI 400#. SI 1 hr. Opn up tbg - flwd 20 mins. Ran swb - fld @ surf. Swb tbg dry to "F" npl @ 6290'. SI.