

4-6-81 Finished laying down drill pipe. Rigged up and ran 156 jts. 4½" OD, 10.5#, K-55, 8 Rd., ST&C csg. T.E. 6404.69' set at 6398' RKB. Cemented first stage w/ 10 bbls mud flush followed by 250 sx class "B" plus 4% gel and ¼# cello flake per sx followed by 150 sx class "B" neat w/ ¼# cello flake per sx. (total slurry 564.5 cu.ft.). Good mud returns and reciprocated csg. OK while cementing. Maximum cementing pressure 900 psi-bumped plug with 1500 psi - float held OK. Opened Dowell stage tool at 4341'. Circulated three hours with rig pump. Rigged up and cemented 2nd stage with 10 bbls. mud flush followed by 400 sx 65-35 plus 12% gel w/ ¼# cello flake per sx. (Total slurry 1203 cu.ft.) Good mud returns while cementing. Closed stage tool with 2500 psi. Held OK. P.O.B. at 7:30 p.m. 4-5-81. Nippled down B.O.P. Set 4½" csg. slips. Cut off 4½" csg. Released rig at 10:30 p.m. 4-5-81.

DAILY REPORT

5-2-81 Move in and rig up MTK Inc. Pick up tubing, tag cement and rig up to drill cement.

5-4-81 Drilling cement and stage tool; pick up tubing, tag cement at 6290'. Drilling cement to 6314'. Rig up Western Co. to spot acid. Pipe rams wouldn't hold. Circulate hole for 20 mins. Spot 250 gals 7½% inhibited HCl. Land tubing and close blind rams for pressure test. Pressure test csg. at 3950 psi for 5 mins. Held OK.

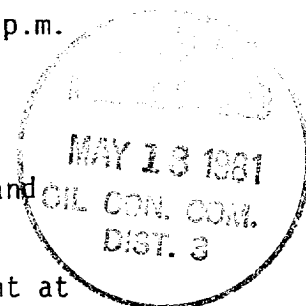
5-5-81 P.O.O.H. w/ tubing. Rig up Jetronics. Ran GR-CCL correlation log from 6319' to 6000'. Perforate Dakota Formation at 6276, 74, 72, 64, 62, 60, 58, 56, 42, 06, 04, 00; 6198, 96, 94, 92, 90, 88, 86, 84, 44, 42 (total 22 holes), using 3-1/8" hollow carrier dual fire gun. Rig up Western Co. and breakdown Dakota Formation w/ 43 bbls fresh water. Acidize perfsw/ 500 gals 15% HCl and 40 ball sealers. Obtain complete ball-off at 4200 psi. Rig up Jetronics and run junk basket. Recover 32 balls w/ 22 hits. Rig up Western Co. and fracture Dakota Formation using Mini-Max III-30 fluid as follows:

15,000 gals fluid pad (all fluid contains 2% Hydrocarbon)
10,000 gals fluid w/ 1 ppg 20-40 sand
10,000 gals fluid w/ 2 ppg 20-40 sand
10,000 gals fluid w/ 3 ppg 20-40 sand
8,000 gals fluid w/ 4 ppg 20-40 sand

Well sandered off while pumping 4 ppg 10-20 sand-laden fluid. Flowed well back but was able to flush only 24 bbls, estimated 12,000# of sand in well bore (3,000# 20-40 sand, 9,000# 10-20 sand)

Total fluid 53,000 gals Mini-Max III-30 w/ 2% lease condensate, 1 gal/1000 gal Aqua-flow and .5 gal/1000 gal X-cide. Flush contained 2.5#/gal FR-2.

(CONT.)



- 5-5-81 Total sand 97,000# 20-40 on formation.
(Cont.) Treating pressure: Min 2500 psi; max 3900 psi; ave 2800 psi
ISDP 1700 psi. Final shut in of 1500 psi after 10 min. Ave.
injection rate 38 BPM.

Opened well up after 5 hrs. Totally dead.
- 5-6-81 T.I.H. w/ tubing. Tag sand at 5220'. Lay down 34 jts. and trip
back in hold. Circulate sand out of well bore from 5220' to 5935'.
- 5-7-81 Circulate sand from 5935' to 6322'. Ran 195 jts. of 1½" 2.9# V-55
10 Rd EUE tubing. T.E. 6187.42' set at 6196' RKB. Flanged up
wellhead and rigged up to swab. Did not have correct swab tools.
Shut down.
- 5-8-81 Shut down
- 5-9-81 MI & RU Farmington Well Service swabbing unit. Well kicked off
at 12:00 noon. Left flowing to atmosphere over night. Rig down and
released swabbing unit.
- 5-10-81 Well gauged 500 MCFGPD w/ spray of condensate after 26 hours -
with 320 psi csg. pressure. Shut in for I.P.