

- 3-7-82 (cont.) Cemented first stage with 10 bbls mud flush followed by 250 sx class "B" plus 4% gel & $\frac{1}{4}$ # flocele per sk followed by 150 sx class "B" w/ $\frac{1}{4}$ # flocele per sk. (Total slurry first stage 557 cu.ft.) Good circ. throughout job. Reciprocated csg. OK while cementing. Bumped plug with 1500 psi. Held OK. Job complete at 9:15 p.m. 3-6-82. Dropped opening bomb and opened Industrial rubber stage tool at 4296'. Circulated 2½ hrs. with rig pump.
- Rigged up Howco and cemented 2nd stage with 10 bbls. mud flush, 475 sx 65-35 plus 12% gel & $\frac{1}{4}$ # flocele per sk followed by 100 sx class "B" plus 4% gel and $\frac{1}{4}$ # flocele per sk. (Total slurry 2nd stage 1396.5 cu.ft.) Good circulation throughout job. Cement circulated to surface. Maximum cementing pressure 2nd stage 1100 psi. Closed stage tool with 2500 psi. Job complete 1:30 a.m. 3-7-82. Nippled down B.O.P. Set 4½" csg. slips. Cut off 4½" csg. Released rig at 3:30 a.m. 3-7-82.

DAILY REPORT

- 4-1-82 Move in and rig up MTK Rig #2. Nipple up B.O.P. Start T.I.H. with 2-3/8" tubing.
- 4-2-82 Finish picking up tubing. Tag cement at 4265' RKB. Rig up power swivel and drill cement and stage collar to 4299' RKB. Pick up tubing to 6335' (PBTD). Circulate hole clean. P.O.O.H. with bit and tubing. S.D.O.N.
- 4-3-82 Rig up Jetronics Inc. and run GR-CCL correlation log from PBTD to 5950' and from 5450 to 4900'.
- Perforate Dakota Formation using 3-1/8" hollow carrier gun at 6287-6297' with 1 jspf for a total of 10 holes. Rig down Jetronics Inc. T.I.H. with 1 jt. tail pipe, Baker model "R" packer, seating nipple and 188 jts. of tubing. Packer set at 6257' RKB and tbg. set at 6290' RKB. Rig up Swab tools. Made 5 swab runs and lowered fluid level from surface to 5800'. No show of gas. Let well set for 30 mins. and fluid level had not risen; Unable to recover any more fluid, but small amount of gas in front of swab. Shut well in. S.D.O.N.
- 4-4-82 Shut down - Sunday
- 4-5-82 Fluid level 2800' from surface. Estimated 25 psi on tbg. Swab down to 5700'. Wait 30 min. Very little fluid entry. Have small amount of gas in front of fluid on each run. Wait 30 min. between runs. Acidize perfs with 250 gals 15% HCL. Flush to perfs with water. Breakdown pressure 2200 psi. ISDP 1450 psi. Press test casing to 2850 psi - OK. Swab tbg. down to 4600'. Had trouble getting swab down.