HUMMON CORPORATION 400 ONE MAIN PLACE ■ WICHITA, KANSAS 67202 ■ (316) 263-8521

COMPLETION REPORT: Bertha #1 (McReynolds East)
(Jim Rodgers) C NE SW
Sec. 20-31S-10W
Barber County, KS

11/19/84 Ran 5 jts of 5½", 17# (149.31'); 65 jts, 15#, (1964.33'); 69 jts, 14#, new, (2735.64'); total of 139 jts (4849.28'), set @ 4861'. Set float @ 4837', centralizers @ 4810', 4720', 4304', 4244', cemented w/125sx. 60/40 Poz., 2% gel, 10% salt, 3/4 of 1% D-31 w/5# gilsonite/sx & 20 BSW ahead of mud sweep. P.D. @ 2:30 A.M.

12/3/84 MIDD. Ran cement bond log, bond looked good over Viola Zone. Swab hole dry. Perf. 4759 - 4762 w/ 4 Jumbo Jet Shots/ft. Went in w/swab, 30' fillup, dirty water. Waited 30 mins, no fillup. Waited another 30 mins, no fillup. SDON.

12/4/84 On fillup approx 40', 50% muddy oil. Pull approx 1500' gas ahead of swab. Acidize w/250 gals double strength 15% FE acid. Start treatment @ 300#, broke to 75# & went on vac. @ 1 BPM. Finished @ 1 BPM on vac., total load 124 bbls. Went in w/swab, fluid level 500' down. Continue to swab. Swab down, rec. 124.23 BTF. Last pull 10% oil, very muddy. First ½ hr rec. 1.16 BTF, 21% oil, very muddy. Second ½ hr rec. 1.16 BTF, 28% oil. Third ½ hr, 1.16 BTF, 29% oil, very muddy; venting gas ahead of swab. SDON.

12/5/84 Venting gas, had 950' fillup, 250' clean oil on 1st pull. Next pull 50' clean oil; 250' mud & oily water, 68% oil. Continue to swab. On swab down rec. 16.34 BTF = 700' fluid. 1st ½ hr rec. 1.35 BTF, 10% oil. 2nd ½ hr rec. 1.00 BTF, 12% muddy oil. 1st hr rec. 1.25 BTF, 15% muddy oil. 2nd hr rec. 1.75 BTF, 23% oil, 1% mud, 1% iron. 3rd hr rec. .50 BTF, 21% oily mud. 4th hr rec. 1.16 BTF, 28% oily mud. 5th hr rec. .75 BTF, 21% emulsion, oil & mud. 6th hr rec. 1.16 BTF, 20% oil & mud. Good show gas throughout swab test. Left vent to tank overnight.

12/6/84 700' fluid, 300' oil, gas venting to surface. On swab down, rec. 17.60 BTF. Preparing to acidize. Acidize w/1000 gals Mod-202, preceded by 500 gals gel pad, followed by 500 gals fluid-loss additive, flush w/formation water. Hole loaded on start of treatment @ 200#, pressure broke to 100#. Finished treatment @ 3 BPM @ 100#. Well on instant vac., total load 152 bbls. On swab down, rec. 127.21 BTF, show of oil & gas 450' off bottom. Short 25 bbls of load. Left vent to tank. SDON.

12/7/84 1350' fillup, venting gas to surface, 200' clean oil. On swab down rec. 29.31 BTF last pull off bottom 14% oil, water still showing iron. 1st ½ hr rec. 1 BTF, 27% oil. Sand line brakes on rig went bad, down 1½ hr repairing brakes. At this time had 250' fillup, rec. 5.83 BTF. 1st ½ hr after repair rec. 2 BTF, 10% oil. 1 full hr rec. 4.08 BTF, 9% oil, water still showing iron. 2nd hr rec. 1.12 BTF, 16% oil. 3rd hr rec. 2.35 BTF, 13% oil, water still showing iron. SDON.

12/8/84 Fluid level 3600' down, 1150' fluid in hole, 60' clean oil on top, venting small amount of gas. On swab down rec. 26.84 BTF. Last pull off bottom 11% oil. 1st hr swabing, rec. 3.25 BTF, 14% oil, could grind out 2% more water. 2nd hr rec. 3 BTF, 11% oil, could grind out 2% more water out of oil; water still showing iron. Tearing down & moving off to P & A.