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OCD Form C-103 dated 7-25-00
Doyle Hartman
Emery King SE No. 3
J-1-23-36
API No. 30-025-09196

DETAILS OF COMPLETED OPERATIONS

On 5-31-00, moved in and rigged up well service unit. Set Model "C" RBP at 3624'. Pressured 5 1/2" O.D. casing to 520 psi. Observed pressure leakoff.

Pressure tested casing, from 800' to 3624', to 525 psi. Pressure held okay. Pressure tested casing from 300' to 3624', to 525 psi. In 30 minutes, observed a greater than 10% leakoff.

Between 6-2-00 and 6-22-00, performed a total of 5 squeeze jobs, utilizing a total of 4000 sx of cement.

On 6-13-00, after 4th squeeze job, drilled out cement to 597'. Observed a waterflow rate of 20 BPD, with a subsequent 16.5-hour wellhead pressure buildup of 204 psi (BHP gradient of 0.792 psi/ft at 597').

On 6-23-00, after 5th squeeze job, drilled out cement. Loaded casing, with water, to top of BOP. Allowed water to stand static. Thirty minutes after filling casing, well began to flow water, at a rate of 29 BPD. Shut well in. Observed a pressure buildup, in 30 minutes, of 150 psi.

Unloaded water from hole. Circulated hole with air for 4.5 hours. Ran and landed bottom-hole pressure bomb at 1295'. Performed a 58-hour pressure buildup, to monitor and measure water influx rate.

During 58-hour shut in, bottom-hole pressure increased from 18.9 psi to 157.7 psi. For final 8 hours of buildup, pressure increased 6.46 psi, from 151.25 psi to 157.71 psi, for a water influx rate of 1.058 BPD.

Tied air unit to casing. Pressured wellbore, from 0' to 1300', to 300 psi. In 2.5 hours, pressure dropped from 300 psi to 282 psi. For final 2 hours of test, pressure decline was 3 psi.

On 6-26-00, ran a second VDCBL-GR-CCL log, from 0' to 1300' (copy of log enclosed). Found excellent bonding from 568' to 616' (24' above and 24' below casing hole at 592'). Also found evidence of substantial cement having entered formation between 568' and 614'.

On 6-27-00, unloaded water from hole. Pulled and laid down retrievable bridge plugs setting at 1300' and 3624'.

Perforated well from 3595' to 3603', with (5) 0.38" holes. Set RBP at 3712' and packer at 3620'. Acidized perfs from 3638'-3712' (332 holes), with 4400 gal of 15% NEFE acid and 192 ball sealers.

Set RBP at 3620' and packer at 3580'. Acidized perfs, from 3595'-3603' (5 holes), with 900 gal of 15% NEFE acid.

Set reconditioned Lufkin C-114D-143-64 pumping unit.

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Landed production tubing at 3728'. Ran 2" x 1 1/4" x 12' RHAC insert pump and new 3/4" API class-KD rod string. At 11:45 P.M., CDT, 6-27-00, returned well to production, at 10 x 64 x 1 1/4, after 23-year abandonment.