

Work-over of Hale State No. 2 continued:

5. Reset BP at 6180'. Spotted 500 gal acid over Drinkard perfs. Set cementer at 5853'. Treated Drinkard perfs with total 2500 gal LSTINE acid and 14 - 1 1/4" RCN ball sealers. No pressure reactions from ball sealers. Tested with Baker packers within Drinkard perfs and found full annular communication. Pulled Baker packers and frac tubing.
6. Ran Baker cementer on 2 3/8" tubing and set at 5752'. Squeezed Drinkard perfs with 150 sacks cement containing retarders to final pressure 3000 psig. WOC 48 hours.
7. Pulled cementer. Ran bit. Found top cement plug in 7" casing at 5777'. Drilled out to 5950'. Pulled bit and ran cementer. Set same at 5810'. Tested top Drinkard perfs with brine to 4000 psig. No pressure loss. Reran bit and drilled cement to 6140'; hole clean below 6140'. Reran cementer and set at 5852'. Tested all Drinkard perfs (and model D re-tainer at 6760') with brine to 4000 psig. No pressure loss.
8. Pulled bit. Reperforated Drinkard as listed in item 3 above.
9. Ran Baker packers on 3 1/2" frac tubing. Set BP at 6185' and cementer at 5852'. Treated Drinkard perfs with 3000 gal acid and 25 ball sealers. Did not ball out. Fraced Drinkard with 20,000 gal lease oil plus 1# sand and 1/20# adonite/gal. AIR 16.2 BPM. Note: No evidence of upward annular communication from Drinkard to Blinebry perfs during any of work outlined above.
10. Reset BP at 5756' and cementer at 5275'. Fraced Blinebry with 20,000 gal lease oil and 20,000# 20/40 sand. AIR 16.5 BPM.
11. Layed down frac tubing. Ran packers on 2 3/8" tubing; set BP at 5717' and cementer at 5272'. Swabbed in Blinebry. Flowed 2 days to recover load. Then on 24-hour OPT ending June 25, 1964, Blinebry flowed 296 BO through 14/64" positive choke. FTP 800. Gas rate 292 MCFPD. GOR 986.
12. Killed Blinebry with 100 BO, then loaded hole with brine. Reset BP at 6135' and cementer at 5900'. Swabbed in Drinkard. Flowed 2 days to recover load. Then on 24-hour OPT ending June 29, 1964, flowed 121 BO plus 34 bbl load water thru 24/64" adj. chokd. Gas rate 330 MCFPD. GOR 2727.

Balance of recompletion will be reported on a subsequent C-103.

