

R. J. PATRICK OPERATING COMPANY

P. O. BOX 1314 322 NORTH LINCOLN

LIBERAL, KANSAS 67901

316 624-8483

RHODES #1 DRILLING REPORT

- 12-6-78 Moved in Earl F. Wakefield Drilling Co. and rigged up.
- 12-7-78 Spudded at 8:00 A.M. Drilled 531 feet of 12¼" surface hole. Ran 530' of 8 5/8" casing, cemented with 200 sacks of light cement with 2% CCL and 150 sacks type "H" with 3% CCL. Plug down at 5:00 P.M. Waiting on Cement
- 12-8-78 Started drilling out from under surface at 8:00 A.M.
- 12-9-78 Drilling at 1540'
- 12-10-78 Drilling at 2425- Slope test at 2290' - ½ degree- Trip for new bit at 2290'.
- 12-11-78 Drilling at 2850'- Mud wt. 9.6 viscosity 32- lost circulation material 6 #
- 12-12-78 Drilling at 3230- mud wt. 9.4 - viscosity 35- lost circulation material 6# - water loss 8.4
- 12-13-78 Drilled to 3410 Total Depth. Ran electric logs. Ran 101 joints 3410 feet of 5½" casing- cemented with 250 sacks 50/50 POZ with 17% salt. Full returns throughout job- plug down at 6:00 P.M. Released rig- waiting on cement and completion unit.

Joe Blair  
606 N. Calhoun  
Liberal, Kansas 67901

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Rhodes #1  
Meade County, Kansas

Completion Report  
December 1978

- 12-18-78 Moved in completion unit and rigged up. Ran cement bond with correlation log. Had good cement bonding. Perforated 3194 to 3204- 2 holes per foot- for salt water disposal zone. Perforated 3139 to 3141- 2 holes per foot lower gas zone. Picked up and ran 100 joints of tubing with straddle packers. Shut down for the night.
- 12-19-78 Acidized perforations 3194 to 3204 with 500 gallons Halliburton MCA. Broke down at 400# treated at 3½ barrels per minute at 1000# instant shut down pressure- 200# on vacuum in 5 minutes Swabbed back load- making 6 bbls salt water per hour- no gas. Moved straddle packers and acidized perforations 3139 to 3141 with 250 gallons of Halliburton MCA. Broke down at 500#- treated at 1½ barrels per minute at 400# instant shut down pressure- 100# on vacuum in 2 minutes. Swabbed back load - well making 12 barrels salt water per hour- no gas. Pulled tubing and packers- shut down for the night.
- 12-20-78 Perforated 3100 to 3102- 4 holes per foot. Ran tubing and straddle packer. Acidized with 250 gallons of acid- swabbed back load. Making approximately 10 bbls salt water and 250,000 cubic ft. of gas per day- shut down for the night.
- 12-21-78 Pulled straddle packer out of hole and ran Halliburton packer and retrievable bridge plug. Tested upper and middle zone for communication. Both zones isolated. Swabbed upper zone. Gas decreased - slight burn and salt water - steady at 12 bbls per hour. Shut in for night.
- 12-22-78 Perforate 3081½ to 3082½- 1 foot- 4 holes per foot. Acidized with 250 gallons of Halliburton MCA. Broke down at 200#- treated ½ bbl per minute at 100#- instant vacuum. Start swabbing back- swabbed back load and well- swabbed dry of fluid- making enough gas to burn. Acidized with 1000 gallons acid and 1000 gallons of flush. Treated at 5½ bbls per minute at 2500# instant shut down vacuum. Started swabbing back- swabbed back 35 bbls- total load 48 bbls. Making approximately 20,000 cubic ft of gas per day- shut down for night.
- 12-23-78 Started swabbing- fluid level 2000 ft.- well dead - swabbed balance of load water- 13 bbls. Well making approximately 30,000 cubic feet per day, and 1½ bbls of salt water per hour. Shut down for Christmas- shut down Dec. 24 and 25. Started up at 8:00 A.M. on Dec. 26.

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- 12-27-78 Perforate 2948 to 2949- 4 holes per foot. Acidized with 250 gallons of Halliburton MCA. Broke down at 700#- treated at 2 bbls per minute at 400#- instant shut down pressure 200#- on vacuum in 1 minute. Swabbed back load. Not making enough gas to burn. Making  $\frac{1}{2}$  bbl of salt water per hour. Perforate 3320 to 3321- 1 foot - 4 holes per foot. Set bridge plug and packer and acidized with 350 gallons of Halliburton MCA. Broke down at 2200#- treated at  $\frac{1}{4}$  bbl per minute at 525# instant shut down pressure- 200#- still pressure at 100# in 1 minute- bleed off and started swabbing. Made 3 pulls with swab and shut down for night.
- 12-28-78 Swabbed balance of load water. No show of gas. Making 3 bbls salt water per hour. Pulled tubing and packers out of hole. Moved off completion unit. Shut down. Well temporarily abandoned.

FINAL REPORT