

RAYCO DRILLING COMPANY

P. O. Box 1741

FARMINGTON, NEW MEXICO

TELEPHONE 325-1461

October 29, 1965

ENGINEERS REPORT

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DENVER, COLO.

Shar Alan Oil Company
1402 Denver US National Center
Denver 2, Colorado

Re: Jicarilla N-1
Sec 23-23N-2W
Rio Arriba Co.,
New Mexico

- 6-28-64 Cemented 8 5/8" casing @ 101' w/60 sks.
- 7-14-64 Reached TD of 3112'. Ran electric log.
Cemented 5 1/2" casing @ 3097' w/100 sks.
- While cleaning out 5 1/2" casing the tubing twisted off and left one drill collar, a 4 3/4" bit and a broken joint of the tubing in the hole.
- 12-1-64 Moving in and rigging up.
- 12-2-64 Finished rigging up in mud and snow to fish out drill collar, bit and broken joint of 1 1/4" tubing.
- 12-3-64 Moved 2" tubing to N#1. Cleaned and thawed out tubing Started picking up tubing to run impression block.
- 12-4-64 Finished picking up tubing. Ran impression block. Pulled impression block. Ran overshot.
- 12-5-64 Fishing with overshot changed shirt and grapple. Recovered fish.
- 12-6-64 Ran 4 3/4" magnet to fish junk out of hole. Milled and fished for junk.
- 12-7-64 Finished cleaning out junk Ran 4 3/4" bit Cleaned out cement to 3060'
Laid down drill collars Shut down.

- 12-12-64 Hauled tubing from R#3 Picked up tubing and 4" flush joint liner. Ran liner in hole. Liner plugged.
- 12-13-64 Pulled liner. Found float plugged Ran tubing and bit, cleaned out 3060' Pulled bit. Picked up liner. Started in hole with 4" liner.
- 12-14-64 Cemented 4" flush joint liner @ 3080' Top of liner @ 2927'. Cemented w/40 sacks. Pulled tubing Ran tubing with 3 1/8" bit to clean out liner. Cleaned out. Pulled and laid down tubing. Shut down.
- 9-29-65 Moved in and rigged up. Picked up 2" tubing and 4 3/4" bit.
- 9-30-65 Drilled out cement inside 5 1/2" casing to top of liner at 2947'. Pulled tubing. Pulled tubing, pressure tested casing and pumped in at 1800psi Pumped 50 casks of cement down casing and squeezed top of liner w/50 sacks + 2% Ca Cl₂ WOC 6 hrs.
- 10-1-65 Ran 2" tubing and 4 3/4" bit. Drilled out cement inside 5 1/2" casing to top of liner at 2947'. Pulled tubing, Ran tubing w/3 3/8" bit and cleaned out inside liner to 3075'. Pulled tubing and bit. Pressure tested casing to 2500psi. Held O.K.
- 6-26-65 Ran correlation log and perforated the Pictured Cliffs from 3034' to 3043' w/4 holes per foot.
- 10-23-65 Frac treated down the casing w/40,000 of 20/40 sand and 47000 gal. water. Breakdown pressure 2700psi, treating pressure 350psi & 15 minutes shut in pressure 350psi injection rate 84 barrels per minute.
- 10-24-65 The well started flowing. Shut in waiting on tubing.

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J. Lay