

STATE OF NEW MEXICO "AE" NO. 13

Spudded 17" hole 7:00 A.M. July 26, 1963.

Ran 343' of 11-3/4" OD casing (23.7 lb - New) and set at 358'. Cemented with 350 sacks of neat. Plug at 311'. Circulated 15 sacks of cement. Job complete 5:00 P.M. July 26, 1963. Casing developed leak at approximately 160'. Could not repair with 2-100 sack cement jobs and 1-150 sack cement job. An additional 150 sacks of cement were pumped (75 sacks in formation and 75 sacks left in 11-3/4" casing). Job complete 6:30 P.M. 7-30-63. Cement plug was drilled out 6:30 P.M. 7-31-63. In accordance with verbal permission from Mr. E. F. Engbrecht, 7-30-63. No pressure tests taken.

Ran 3249' of 8-5/8" OD casing (24.0 lb - New) and set at 3261', with DV tool at 1000'. Cemented 1st stage with 1500 sacks of Class "C" 8% gel followed with 150 sacks of Neat. Circulate 6 hrs. Cement second stage with 400 sacks of Class "C" 4% gel. Job complete 5:30 A.M. 8-4-63. Tested 8-5/8" OD casing with 1000 psi for 30 minutes before and after drilling plug. Tested O.K. Job complete 8:00 A.M. August 5, 1963.

Ran 8959' of 2-7/8" OD casing (6.50 lb - J-55) and set at 8970'. Cement with 500 sacks of Class "C" 8% gel plus 800 sacks of 8% gel plus 250 sacks of Class "C" 4% gel. Plug down with 300 gallons of Acetic acid. Plug at 8948'. Job complete 10:00 A.M. 9-7-63. Tested 2-7/8" OD casing for 30 minutes with 1000 psi before and after drilling plug. Tested O.K. Job complete 10:00 A.M. 9-8-63.

Ran directional survey and Gamma Ray Neutron Logs 9-5-63.

Vacuum Abo Reef Zone: Ran 8959' of 2-7/8" OD casing and set at 8970'. Perforate 2-7/8" OD casing with 2 jet shots per interval from 8772-74', 8791-93', 8809-11', 8830-32', 8845-47', 8880-82', 8900-02'. Job complete 3:30 P.M. 9-10-63. Acidize perforations 8772-8902' with 8000 gallons of LSTNE in 8 stages with 2 ball sealers between stages with 500 cubic feet of CO<sub>2</sub> per barrel. On 24 hr. potential test ending 11:00 P.M. 9-12-63, well flowed 154 BO and no water through a 12/64" choke.

Gravity - 37.4

GOR - 725

Top of Pay - 8772'

Bottom of Pay - 8982'

NMOCC Date - 9-6-63

TEXACO Inc. Date - 9-12-63