

STATE C NEW MEXICO "Q" WELL NO. 4

Spudded 20" hole 9:45 A. M. August 21, 1963. Ran 88' of 16" O. D. casing, and 287' of 13-3/8" O. D. casing and cemented at 385' with 400 sx Class "C" cement. Plug at 315'. Cement circulated. Tested before and after drilling plug for 30 minutes with 600 P.S.I. tested O.K. Job complete 11:45 P. M. August 22, 1963.

Ran 4787' of 9-5/8" O. D. casing and cemented at 4799' with 1500 sx Class "C" 8% gel plus 200 sx Class "C" regular neat. Plug at 4766'. Tested before and after drilling plug for 30 minutes with 1000 P.S.I. Tested O.K. Job complete 5:00 P.M. September 10, 1963.

D. S. T. No. 1, 9280' to 9350', tool open 2 hours with slight blow air, continued thruout test. Recovered 240' SGCDM with trace of oil. 30 MISIP 2959 lb, 30 MFSIP 2655 lb, IFP 114 lb, FFP 189 lb, HI 4207 lb, HO 4201 lb, BHT 172°. Job complete 1:00 PM Sept. 26, 1963.

D.S.T. No. 2, 9400' to 9445', Tool open 2 hours with good blow thruout test. Gas to surface in 88 min, gas TSTM. Recovered 180' HO&GCDM. HI&HO 4241 lb, 30 MISIP 2257 lb, IFP 74 lb, 60 MISIP 2318 lb, FFP 131 lb. Job complete 1:30 PM, Sept. 27, 1963.

D.S.T. No. 3, 12,255' to 12,285', Tool open 1 hour with weak blow. Recovered 1900' water blanket, 510' sulphur water, no show oil or gas. HI & HO 6338 lb, ISSIP 4872 lb, IFP 65 lb, FFP 1095 lb, FSIP 4850 lb. BHT 158°. Job complete 2:00 PM October 31, 1963.

Spot Plug No. 1, 50 sx 12,181' to 12,285'.  
Spot Plug No. 2, 75 sx, 11,450' to 11,550'.

String No. 1 - Z- Vacuum Abo North

Ran 11,458' of 2-7/8" O. D. Casing (6.40 lb), (NEW) 8-R, and cemented at 11,468'. RA collar and 6' sub at 9903'. LI Plug at 11,436'.

String No. 2 - Y - Vacuum Pennsylvanian

Ran 10,166' of 2-7/8" O. D. Casing, (6.40 lb) (NEW) 8-R, and cemented at 10,176'. RA Collar and 6' sub at 6654'. LI plug at 10,145'.

String No. 3 - X - Vacuum Wolfcamp

Ran 10,140' of 2-7/8" O. D. Casing (6.40 Lb), (NEW) 8-R, and cemented at 10,150'. RA Collar and 4' sub at 9118'. LI plug at 10,119'.

Above strings cemented by pumping 200 bbls of brine water ahead of cement. Cemented down all three strings with 2500 sx of trinity Lite Wate with 26.5# salt per sx. Pumped 800 sx down Z string before starting down X & Y strings. Followed plug down each string with 500 gals acetic acid. Tested above strings before and after drilling plugs for 30 minutes with 2000 P.S.I. Tested O.K. Job complete 10:00 A. M., November 5, 1963.

String No. 1 - Z - Vacuum Abo North

Perforate 2-7/8" O. D. Casing with one jet shot per interval at 9148', 9149', 9166', 9167', 9188', 9189', 9204', 9205', 9222', 9223', 9250', 9251'. Acidized perforations 9148 to 9251 with 500 gals 15% LSTNE Acid. Swabbed well and reacidized with 3000 gals 15% LSTNE acid. in six stages with 2 ball sealers between stages, swabbed well.

On 24 hr Potential test ending 6:00 AM December 4, 1963, well swabbed 40 BO and 127 BW. (Allowable 40 BOPD)

GOR - 910

GRAVITY - 39.8

Top of Pay - 9148

Bottom of Pay - 9251

NMOCC Date - October 29, 1963

TEXACO Inc. Date - December 4, 1963.

String No. 2 - Y - Vacuum Pennsylvanian

Perforate 2-7/8" O. D. Casing with one jet shot per interval at 10,069', 10,070', 10,084', 10,085', 10,092', 10,093', 10,100', 10,101', 10,106', and 10,107'. Squeeze perforations with 25 sx Class "C" cement with LWL. Acidize with 500 gals acetic acid.

On 20 hour Potential test ending 6:00 A. M. November 19, 1963, well flowed thru 3/4" choke 283 BO and 16 BW. (24 hr rate, 340 BO and 19 BW)

GOR - 1410

GRAVITY - 41.9

Top of Pay - 10,069'

Bottom of Pay - 10,107'

NMOCC Date - October 29, 1963

TEXACO Inc. Date- November 19, 1963

String No. 3 - X - Vacuum Wolfcamp

- Perforate 2-7/8" O.D. csg with 1 jet shot per interval at 9951', 9952', 9960', 9961', 9990', 9991', 10,004', & 10,005'. Acidize with 500 gals acetic acid and 335 gals 15% LSTNE. Re-acidize with 500 gals acetic acid. Sqz perfs with 25 sx Class "C" cmt with LWL. Re-Perf 2-7/8" O.D. csg with 1 jet shot per interval at 9951', 9952', 9960', 9961', 9990', 9991', 10,004', & 10,005'. Acidize with 500 gals acetic acid. Swab well. On 24 hr Potential test ending 6 AM Nov. 22, 1963, well flowed thru 32/64" choke 103 BO & 11 BW (103 BOPD Ltd)

GOR - 682 Gravity - 392 Top of Pay 9951' Btm of Pay 10,005'.

NMOCC Date October 29, 1963

TEXACO Inc. Date November 22, 1963.