

Hagerman 14-1
Eddy Co., N.M.

Drilling & Completion Report

Date Spud: 1-4-92

Date T.D. Reached: 1-13-92

Drilled 12 1/4" hole to 575'

Set 8 5/8" 24# J-55 Casing to 575'. Cemented w/170 sx Light Cement, salt mixed 15#/pr/sx w/above, .5# Flocele per sack, Calcium Chloride Mixed 2% and 280 sacks Premium cement. Circ to surface. WOC 6 Hrs. Tested casing & BOP to 1000# for 30 minutes. Test held ok.

Drilled w/brine to 5000 feet, mud up w/gel, starch and W.L., TD 5820 feet on 1-13-92.

Ran open hole Dual LL, Microlog, GR-Caliper & CNL-Density. GR.

At TD 5820' Ran 5 1/2", 15.5#, J-55, LT & C Casing to TD.

Cemented in two stages w/D.V. Tool @ 4000'.

stage 1: 360 sx 'H' Cement + 8#/sx CSE + 10% salt + .4% CF-2 + .5% CF-14 + 15 bbls WMW-1. Circ 20 sx cement to pit. WOC 6 hrs.

stage 2: 448 sx 'C' cement + 6% gel + 15# sx salt 1/4# /sx Celloseal + 100 sx 'C' + 5#/sx salt. Bump plug & close tool- 5 sx pumped to pit. WOC 8 hrs.

Move off Grace Rig

Drill out 5 1/2" casing to TD, circ hole clean. perforate ISPF - 5432, 37, 4043, 80, 82, 87, 89, 93, 5508, 10, 11, 56, 59, 63, 65, 88, 90 & 93; 19 holes total. (.375") Acidize perms w/2000 gals NEFE 7 1/2% HCl w/additives and 30 RCN Ball sealers. Pump via tubing and BD. Good ball action.

RV to frac perms 5432-5593 down 2 7/8" tubing. Western gelled and blended 32,000 gals 2% KCl water. Pump in prepad @ 18.8 BPM w/4100 psi. and broke back to 3230 psi. Pump in 12,000 gal pad @ 18 BPM w/3620 psi. Blended 8,000 gal w/20/40 Brady sand @ 2ppg, 8,000 gal w/20/40 Brady sand @ 4ppg, 2,000 gal w/20/40 Brady sand @ 6ppg, 1,000 gal w/16/30 Ottawa sand @ 8 ppg, Min TP 3455 psi Max TP 4200 psi. Avg TP 3600 psi. HHP 1588 psi, Flush to top of perforation w/gel water. TLTR 851 bbls. ISIP 790 psi SION. Flow back load in 43 hours. Well flowed 180 BD & 747 BSW in 140 hours plus gas estimated 188 MCFGPD. SI for BHP.

2-7-92 Flow 22 BOPD & 75 BSWPD & 188 MCFGPD; 16/64" choke FTP 140 psi CP 925 psi; 24 hr test.