

Form C-103 MISCELLANEOUS REPORTS ON WELLS

New Mex "S" #1

Attachment #1

- porosity & small vuggy porosity. Fair spotty stain & fluor w/trace dead oil stain, fair show. 13435 $\frac{1}{2}$ -36 $\frac{1}{2}$  - dolo. F-CXLM w/trace porosity, trace hair line fractures, fair spotty stain & fluor - trace dead oil stain, fair show.
- DST #6 - 13428-443 2 pkrs, no w.c. 4 hrs., 5/8" x 1" - gas 45 min. TSTM, strong to fair blow throughout test. Acc. 200' gas + 50' mud + 30' gas w/dist. + 30' free oil. Gr. 50° @ 60°, no water. 30 min. SI 3674, BHP 121#-302#, 30 min. SI 3474, RH 607-608.
- Core #12 - 13443-443' - rec. 3' F-CXLM light tan - 10' I WLN porosity + small vuggy porosity, 1st foot fair stain, poor fluor. + trace dead oil, bottom 2' poor stain & fluor, trace dead oil (all dolo.).
- DST #9 - 13443-13443 - 2 pkrs., no w.c. 7 $\frac{1}{4}$  hrs., 5/8" x 1", gas 1 hr. 1 min. TSTM. Rev. out 20' gas + 2 drlg. mud + 3500' heavy oil & gas cut drlg. mud, no wtr. Gr. 43.4° @ 60° + 10% mud in sample. Rec. below TC valve 55' gas + 125' salt wtr. SFP 0#, BHP 465#-2225#. Initial 50 min. SI 297 false (air chamber leaked) 2 hrs BHP SI 4360, HH 6005-6005. SW analysis - Sp. Gr. 1.050 chloride 39,300, sulphate 1000, bicarb 910, H<sub>2</sub>S 0, sodium 22,600, calcium 2350, magnesium 515, iron 15, resistivity .11 @ 70°, Ph 6.4.
- DST #10 - 13453-13483 2 pkrs, no w.c. 2 hrs, 5/8" x 1", nil to surface, bubble before tool opened, weak blow air - fair blow air 10 min., decreased to weak blow after 10 min. Rec. 8600' drlg. mud + 180' salt water, leak in tool joint 19 stds above tool - loose. SFP 0#, BHP 3450-3500#, 30 min. SI 377 4445#, RH 6160-6130. Water Analysis - Resistivity .12 @ 75°, gr. 1.036, P.h. 7.15, chloride 38,400, sulphate 1500, bicarb 1100, calcium 1800, magn. 50, sodium 23,800, iron - light, very slight trace H<sub>2</sub>S.

Schlumberger ran Gamma Ray & Neutron, Micro Lateral logs to 13504'. Ran 4" liner to 13509, top 13294'. Howco cemented w/30 sks Trinity Inferno neat. Circ. over 4" liner, rev. out 12 sks, D/O 6" cement in top of liner @ 13477-13507 @ bottom. Howco RTTS tool set @ 10500-4500#-3700# in 1 $\frac{1}{2}$  min. Reset 13214 - pump 20 bbls. mud over top liner @ 13294' last 5 bbls in 1 $\frac{1}{2}$  BPM 4000#-4250#, bled to 3600# 1 min. Flow back 15 bbls. mud. Pull Howco RTTS tool. Welex set Howco D.C. retainer on wireline @ 13093'. Squeezed over top of liner @ 13294' w/ 50 sks. Trinity Inferno neat 4500#-3300#, 25 sks. below top liner - 20 sks. between ret. & top 4" liner. Drill retainer & cement to 13507. Test top of 4" liner w/13500 30 min., O.K. Schlumberger ran Gamma Ray & Collar logs to 13507. Set Baker Model "D" prod. pkr. w/latch assembly @ 9990'. Welex perf 4" liner 13443-460 w/4 JSPF. Swab dry 3 hrs. 300' SH, slight show of gas. 25 BLO short. Cardinal A/perf 13443-60' w/500 gals 15% Regular, TP 4500#-4700#, 5 min. SI TP 3000#, 2.4 BHP. Swab 5% oil, 95% Sw. Squeezed perf 13443-60 w/12 bbls. Dowell sealment + 35 sks. Trinity Inferno, 5300#-6000#, 9 $\frac{1}{2}$  bbls. sealment in perf. Perf. 4" liner 13442-13447 w/4 JSPF. Swab dry 3 hrs. Attempted to A/250 gals 15%. Press to 7500#, leaked back to 6500#, 2 bbls. acid in form. Communication - rev. out 6 bbls. acid contaminated w/2 $\frac{1}{2}$  bbls. sealment. Ran new RTTS tool and spotted 250 gals 15% acid over perf (13442-13447), soaked acid 1 hr. Press 7500# on 2" 1300# on csg. 30 min., no bleed off. Rev. out oil & acid. Re-perf 13442-13447 w/4 JSPF. Spotted 250 gals 15% acid over perf. TP 6500-4600# 6/10 BPM, 5 min. SI press. 2800#, 15 min. 2800#. Swab 5 BNO + 14 BSW 2 hrs, trace gas, S/O 58' SW, 500' BH. Re A/perf w/500 gals 15%, TP 2-3600#-4700#-4200# 8/10 BPM, 5 min. SD 1800#. After clean up Dev: flow 140' BNO + 5 BSW, 2 $\frac{1}{2}$  hrs., 1/2" choke, TP 90#. Gravity 52° @ 60°. S/O 2/1. 14 30'. Kill well to complete. Set Baker Model "D" prod pkr @ 10010'. Ran hydro test 1000' of 2 $\frac{1}{2}$ " to 10000' X Lin. @ 10000' + 344' 2" hydrill BJ tbg @ 3133' 2" B & B Baker Model "D" prod assembly.

DST #11 13384-911, loop seating shoe 10008', Baker Model "D" prod. @ 9990'.

Install (Wolfcamp) 2" tbg. with Baker anchor @ 9914', tbg. perf 304-71', seating shoe 9883'.

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