



DRILLING REPORT

PICKETWIRE #29-3

635' FNL & 1760' FWL (NE $\frac{1}{4}$ NW $\frac{1}{4}$)

Section 29-33S-67W

Las Animas County, Colorado

ETD: 1675'
CONTRACTOR: Finley Drilling Co.
ELEVATIONS: 7145' GL, 7153' KB

- 10/30/90 MIRU Rat hole rig. Air drill 17-1/2" hole to 23'. Set 23' of 13-3/8" conductor. Cement to surface with 20 sx. MIRU Finley Rig #1.
- 10/31/90 Depth 586'. Spud with 12-1/4" bit @ 9 AM 10/30/90. Drilled with air mist to 586'. Circulate 110 Bbls gel-LCM. POH. Ran 13 jts 8-5/8" 24 #/ft casing to 576' KB. Cemented with 400 sx Class "G" + 2% CaCl₂ + 1/4 #/sx flocele. Circulated 34 Bbls cement to surface. PD @ 3 AM.
- 11/01/90 Depth 1540'. Replace rig transmission. Drill ahead with air-mist using 7-7/8" bit. Survey 1° @ 600'.
- 11/02/90 Depth 1680'. TD @ 9:30 AM. Circulate clean with air-mist pump 20 Bbls 55 Vis mud followed by 85 Bbls 45 Vis mud with 8 ppb LCM. Circulate 2 hrs with full returns. POH to Log. Ran Schlumberger DIL-SFL; CNL-LDT and high resolution logs TD to surface casing. Ran 41 jts 5-1/2" 14 #/ft casing and landed @ 1670' KB 10 centralizers spaced through coals. Set slips. Released rig @ 2 AM 11/02/90.
- 11/03/90 MIRU Finley Water Well Rig. PU stinger on 2-7/8" tbg. Sting into float shoe @ 1670'. Pump WG-12, superflush and spacer fluid followed by 5 Bbls cement down 8-5/8" x 5-1/2" annulus. Pump suction manifold ruptured. SD with no chance of flush or job completion.
- 11/04/90 Shut down due to winter storm.
- 11/05/90 RU Halco, pump down annulus. Rate insufficient to complete cement job as planned. POH with tubing. SD.

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- 11/06/90 RU Schlumberger. Ran CBL and found bottom of cement @ 712'. Shot 4 squeeze holes @ 750' TIH with 2-7/8" tubing and stinger. Stung into float shoe. RU Halliburton on 5-1/2" x 2-7/8" annulus. Broke down perfs @ 750#. Pumped 20 Bbls slickwater and 125 sx Silicalite cement. Obtained 1000# squeeze after 103 sx (annular vol = 101 sxs) stung out of shoe and displaced remaining cement to bottom. POH with tubing. Set CIBP @ 760'.
- 11/07/90 TIH with tubing to 727'. Pump into squeeze holes @ 3 BPM with 800 psi. Spot 25 sx Class "A" cement with 2% CaCl₂ on CIBP. Bradenhead squeeze to 1500 psi. after 50% behind casing. RD move off.

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