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Drilling and Operation Summary
Quahada Ridge 31 Fed #4

07/04/95 Day 18-Depth-6490; Prog-0; Oper-RD; Formation-Delaware; MW-9.2; Vis-32; PV/YP-3/2; Gal-1/2; pH-10; WL-10; Cake-film; Solids-1%; Chls-71K; Time Breakdown-2 hrs-Waiting on equip; 6 ½ hr-Running 5 ½" csg; 1 hr-Circ csg & RD csg crew; 2½ hrs-Cmtg; Drop bomb & circ out cmt; 5 hrs-Circ between stages; 1hr-Cmtg 2nd stage; 3 hrs-ND & hung slips & NU wellhead; 3 hrs-RD. Replaced rig @ 3:00 am (MST) 7-4-95. Csg 5 ½" 15.5#, K-55, LTC, 8 rd. Csg set @ 6490', FS set @ 6489', FC set @ 6448'; DV set @ 4270'; Ran 10 cent & 10 turbolizers on csg. Cmt 1st stage-Pmp 10 bbls wtr, 10 bbls Chl 100, 10 bbls wtr, 10 bbls D75, 10 bbls wtr., 475 sx 50/50 H/POZ w/5# sx salt, 3% DGO (Flac), 2.5 # B28 (X-pand), 1/4# Cello flake & .2% defoamer. Mixed 14.4#/g w/1.31 yield. Displ w/60 bbls wtr & 93.5 bbls mud. Bmp plug w/500 psi over lift pressure. Ck float (OK). Plug dn @ 5:00 pm (MST) 7-3-95. Drop opening bomb. Open DV w/900 psi. Circ 110 sxs to pit. Circ. Circ w/rig. Pmp til 2nd stage. 2nd Stage-Pmp 10 bbls wtr, 10 bbls Chl 100 spacer, 10 bbls wtr, 10 bbls D75, 10 bbls wtr. 500 sxs (same additives as 1st stage). Mixed @ 14.4#/g. W/1.31 yield. Displaced w/101 bbls wtr. Bmp plug & close DV tool. Closed ok. Plug dn @ 12:01 am 7-4-95. (Estimated TOC @ 2300'). ND wellhead & set cactus slips w/65,00#. Finish ND & install seals & 11"-3000 x 7/16 -3000 tbg head. Test head to 2000 psi. Install flange cap. Release rig @ 3:00 am 7-4-95.
DMC\$1,200 TMC\$5,510
DWC\$69,040 CWC\$258,264

07/21/95 MIRU L & R pulling unit. NU BOP. Unload & tally 200 jts 2 7/8" tbg. GIH w/4 3/4" bit, 4-3 ½" DC, & tbg to 4272'. RU Davis tool Rev unit & prep to drl out DV tool. SDFN.
DMC\$ 0 TMC\$5,510
DWC\$2,875 CWC\$261,139

07/22/95 Drlg out cmt & DV tool @ 4272. Circ hole cln & test to 500 psi 15 min. (OK) Continue in hole to 6440'. Drl cmt to 6445' (wiper plug) Circ hole cln. POOH & lay dn collars. GIH w/bit 5 1/2" Csg scraper & 2 7/8" tbg. Wrk scaper through DV tool area. Continue to PBTD of 6445 & circ hole w/2% KCL. SDF week end. NOTE; 200 jts 2 7/8" J55 8rd tbg (6534.49) on location.
DMC\$ 0 TMC\$5,510
DWC\$22,545 CWC\$283,684

07/25/95 Pull btm of tbg to 6400' & RU Howco & pmp 100g HCL to cln tbg. Reverse to pit. Spot 250g 7½% NE-FE. POOH. RU Wedge Wireline & Run CBL, CCL & GR from PBTD (6437') to 2600' (TOCE 2030') DV tool @ 4262'- 68. Perforate @ 6354'- 72' (18'- 2 SPF - 37 holes) 6378'- 86' (8'- 2 SPF - 17 holes) 6392'- 94' (2'- 2 SPF - 5 holes) & 6397'- 99' (2'- 2 SPF - 5 holes) RD Wedge. GIH w/Baker model 'R' pkr, 2 7/8" x 2 1/4" SN & tbg to 5800'. SDFN.
DMC\$0 TMC\$5,510
DWC\$6,080 CWC\$289,764

07/26/95 SIP - 0. Finish GIH to 6220'. RU Howco & pmp csg vol. Set pkr & test 500 psi (OK) Start formation break dn. Broke @ 2050'. Put acid away. 2½bpm @ 1275 psi. ISIP - 970, 5 min - 900. Acidize w/1900g 7 ½% flowcheck. SC w/125 ball seaters. Avg 3.1 bpm @ 1296. Max - 3.1 @ 1400. Min - 3.1 @ 1135. ISIP - 945, 5 min - 910, 10 min - 887, 15 min - 870. TLTR - 109. Start recovering load. RU swab. IFL - surface. FFL - SN. Make hourly runs. 700' entry hour. Recovered 66 bbls (43 to rec) Last 2 runs had 1.2% oil cut w/gas ahead of swab. SWI & SDFN.
DMC\$0 TMC\$5,510
DWC\$7,675 CWC\$297,439