

- 3-10-89 - MIRU Diamond Well Service PU. Ran 2 1/8" gauge ring to 13,925'. Pumped 30 bbl 6% KCl wter to load tbg. Pumped 40 bbl to load csg. Tree & NU BOP. Unlatch from pkr. TOH w/seal assy.
- 3-13-89 R&L 434 jts (12,990') 2 7/8" 6.5# N-80 EUE 8rd AB modified used tbg @ 13,060'.
- 3-14-89 Ran GR PDC log f/13,450'-13,100'. Perf Lower Morrow (4-SPF) 13,364-69' (21 shots).
- 3-15-89 Acidize L. Morrow perfs 13,364-69' w/1000 gals 10% acetic & 1000 gals acetic H-F, 2000 gals RHF acid. Flushed & overflushed w/4500 gals 2% Cla-Fix, w/1000 SCF/bbl nitrogen in all fluid.
- 4-4-89 13 hr SITP 0#. Ran 4 5/8" OD x 3 1/4" ID Cut-rite shoe & 6 - 3 1/2" DC's on 2 7/8" tbg & drlg. out Otis WB Perm pkr @ 13,060'. Pushed to 13,382'. TOH to 5400', inc.
- 4-5-89 Ran cmt retainer on WL - set @ 13,300'. Ran GR CCL log f/13,300'-10,640'. TIH w/cmt retainer stinger on 2 7/8" tbg. Stung into retainer & established pump in rate @ 1 1/2 BPM @ 4200 psi. Sqzd L. Morrow perfs 13,364-69' w/100 sxs Cl"H" w/.2% HR-5 @ 15.6 ppg @ 1 1/2 - 1/4 BPM @ 3200-6000 psi-final squeeze press. PU & reversed out 40 sxs cmt PU to 13,108'.
- 4-7-89 R&L 433 jts (13,011') 2 7/8" 6.5# N-80 8rd EUE used "AB" Mod tbg @ 13,024' 2 7/8" SN @ 13,022'. All tbg tested to 1000 psi - perf Middle Morrow (4SPF) 13,108' - 13,150' (33 shots). Press. 1200-1250 psi. Opened well to pit on 26/64" choke & had condensate to surf. in 40 mins., gas to surf. in 42 mins. Press. 1250-0 psi. Flowing approx. 15-20 MCF for 1 hr. Checked FL w/swab & tbg dry. Flw'd on 22/64" choke f/4 hrs & gas decreased to approx. 5-10 MCF. Shut well in.
- 4-11-89 Acidize M. Morrow 13,108-13,150' down 2 7/8" tbg below Perm pkr @ 13,024' w/3000 gals 7 1/2% HCl, 4500 gals 3% HF/12% HCl, 5289 gals Cla-Fix.
- 4-23-89 Ran & set CIBP on WL @ 13,090'. Dumped 20' cmt on CIBP to 13,070' PBTD.
- 4-25-89 R&L 430 jts & 2 subs (12,913') 2 7/8" 6.5# N-80 USS 8rd AB Mod used tbg @ 12,924'. Tested all tbg to 6000 psi. ND BOP - install tree - latched into pkr. tested pkr & 2 7/8" x 5 1/2" annulus to 1000 psi, OK. Released from pkr. Displaced tbg w/88,000 SCF nitrogen from 0 - 3600 psi - latched into pkr - NU tree - bled tbg press to 1500 psi. Drop Vann firing bar. Perf Middle Morrow w/4" Vann gun's (4 SPF) @ 13,000-13,016' (58 shots). No change in tbg press. - making small mist of condensate.
- 4-26-89 Flwg 297 NCFD down sales line w/610# FTP.
- 4-27-89 Well flwg thru 3/4" choke down sales line w/630# FTD. Avg prod rate- 312 MCFD. Max 367 MCFD, Min 258 MCFD.
- 4-28-89 Well flwg thru 3/4" choke dwn sales line w/625# FTP @ 253 MCFD. SWI.
- 5-3-89 Acidize M. Morrow perfs 13,000-13,016' w/4000 gals 7 1/2% HCl & 4000 gals 3% HF acid w/12% HCl & 3000 gals Clay-Fix.

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