



Wood Group 3000# TC1AB 7 1/16"x2 3/8" tubing hanger

Wood Group 3000# C22 11"x4 1/2" casing hanger

Elevation: 5895' GR, 5910' KB (12')

9 5/8" 36#J55 STC CSA 284'KB w/ 245 sx, circ

TOC: 3180' by CBL

Stage Tool @ 3715.07'KB

7" 23# J55 LTC CSA 4220'KB w/ 220 sx 1st stage, circ, 700 sx 2nd stage, circ

Marker joint @ 4373.50' to 4388.30'

9-6-02: Perf 1 JSPL 120 deg phase top down over 4616-22, 24-26, 33-36, 40-46, 52-56, 66, 86-89 & 91-95 (36 shots)

9-5-02: Perf 1 JSPL 120 deg phase over 4746-50, 76, 77, 82-86, 90, 4800-06, 16, 18, 57-60 & 64-67 (30 shots)

2 3/8" 4.7# J55 8rd EUE; 208 jnts; notched collar, SN w/ locking @ 6798.92'

EOT @ 6799.92'KB; NOTE: removed pkr (4/1/03)

Marker joint @ 6678.65' to 6697.21'

9-4-02: Perf 1 JSPL 120 deg phase at 6762-70, 6818, 19, 27, 31, 42, 43, 46-50 & 57 (21 shots)

Top of fish @ 6881'. Fish is Wireline ballcatcher, CCL, 5' sinker bar, rope socket & small unknown amount of wireline encased in RCS frac sand

Float @ 6883'KB by tubing talley

4 1/2" 11.6# N80 LTC CSA 6938.66'KB w/ 340 sx

TD: 6940' KB Driller, PBD: 6898' KB by casing talley

- 9/4/2002 Acidize 6762'-6857' w/ 1500 gal 15% HCl w/ acetic & citric sequestering and oxygen scavenger at 5bpm
- 9/5/2002 Frac 6762' to 6857' down casing w/ 61,500 gallon xlink water, 49,500# 20/40 RCS & 28,000# 20/40 RCS w/ activator at 41 BPM. ISIP: 820psi, 5min: 300psi, 10min: 75psi, 15min: 0psi
- Acidize 4746'-4867' w/ 2,500 gal 15% HCl w/ acetic & citric sequestering and oxygen scavenger at 6bpm
- Frac 4746'-4867' down casing w/ 85,300 gallon slick water, 37,100# 20/40 RCS & 36,000# 20/40 RCS w/ activator at 61 BPM. All sand tagged w/ scandium. Close to screen out at end.
- Pumped flush at 25 BPM & 4500psi. ISIP: vac
- 9/6/2002 Acidize 4616'-4695' w/ 2,500 gal 15% HCl w/ acetic & citric sequestering and oxygen scavenger at 6bpm
- Frac 4616'-4695' down casing w/ 110,250 gallon slick water, 76,300# 20/40 RCS & 29,700# 20/40 RCS w/ activator at 78 BPM as scheduled. All sand tagged w/ iridium. ISIP: 350, 5min: 20, 10min: 0

30-045-31129

## Southern Union No. 1B

Location: 1975'FSL, 2315'FWL, Sec 19, T31N, R12W, San Juan County, NM  
Lease # SF 078244

Field: Blanco MV / Basin Dakota  
Zone: Point Lookout, Dakota  
Perfs: 4616' to 4867' & 6762' to 6857'  
Spud Date: August 07, 2002, 04:00