

DRILL STEM TESTS

Yates Petroleum Corporation ✓
North Millman Unit #3 - State 648
1650' FSL & 1980' FWL of Sec. 8-19S-28E
Eddy County, New Mexico

RECEIVED

OCT 15 1991

DST #1 - Packer seat at 8584'. Preflow 30 minutes w/good blow on 1/4" hose and increasing. Gas to surface in 22 minutes with 25 psi and ended with 28 psi. ISIP 60 minutes. FF 60 minutes started with 0 psi. Levelled out and ended with 21 psi. FSIP 120 minutes. Recovery: 532', 100' oil top sample. API gravity 46.2 at 60 degrees, 432' water from metal sample. API gravity 8.55 at 70 degrees. Sample Chamber: pressure was 120 psi. Instrument data temperature 130 degrees. IHP 3830 psi. IFS 99 psi. Ended with 161 psi. ISIP 3317. FFP 144 psi, ended with 199 psi. FSIP 3142 psi. FHP 3805 psi.

DST #2 - Packer seat at 9580'. 190' interval. 30" preflow - started at 0# and ended w/110 psi in 1/4" choke with GTS in 15 minutes. ISI 60". FF 60" on 1/2" choke. Pressure started at 34 psi. In 5 minutes pressure had levelled out to 44 psi and ended with 39 psi. FSIP 135". Pulled packers loose and tripped out. Picked up 15000# weight. Recovered: 1400' of distillate and 54' of oil and gas cut mud. Equalize and reverse out. API gravity - 45.2 at 60 degrees. Resistivity of mud - .06 at 60 degrees. Sample chamber had 500 psi, 4.2 cfg, 550 cc distillate and 100 cc drilling fluid. API gravity of distillate 45.2 at 60 degrees. BHT: 155 degrees. Pressures: IHP 4475; IFP started at 230 psi and ended with 395 psi; ISIP 3575; FFP started at 357 psi and ended with 560 psi; FSIP 3613; FHP 4462.