

Max press 3 psi on $\frac{1}{4}$ " ck, stabilized @ 3 psi (4.4 MCFG). Closed tool for 120 mins FSIP @ 8:15 AM. Fin FSI @ 10:15 AM. Rel pkr @ 10:17 AM, POH w/TT. Rec 270' GCDM & 480' SW. IHP 6084, IFP 136-173, ISI 4339, FFP 186-387, FSIP 4126, FHP 6058, BHT 176°. Resumed drlg @ 9:30 PM 10/15/77. Fin 8-3/4" hole to 11,315' TD @ 10:15 AM 10/18/77. Ran FDC-CNL-GR, DLL & MSFL logs. Ran 3926' 5 $\frac{1}{2}$ " OD 15.5# N-80 csg on btm & 7367' 5 $\frac{1}{2}$ " OD 15.5# K-55 csg on top. 5 $\frac{1}{2}$ " csg set @ 11,312' KB. FS on btm & FC @ 11,225'. Cmt'd 5 $\frac{1}{2}$ " OD csg w/1585 sx Cl H cmt cont'g .2% fluid loss additive, .3% retarder & 5% KCL. PD @ 7:10 AM 10/21/77. WOC 96 hrs. Ran GR-CBL, good cmt bond. TOC @ 7400'. Drld out to 11,225'. Press tstd csg to 1500# 30 mins OK. Perf'd Morrow w/2 JSPF @ 11,134-40, 11,144-48, 11,152-54, 11,192-95' (35 - .46" holes). RIH w/PACT tool, sub, SN, Lok-set pkr, EL receptacle, 2-7/8" tbg, set pkr @ 11,029', PACT tool @ 11,048'. Sheared PACT tool, had slight blow, GTS in 45 mins @ 2.6 MCFPD. 15 hr SITP 850 psig. Acidized Morrow perfs 11,134-195' w/1500 gals 7 $\frac{1}{2}$ % MS acid & 1000 SCF N₂/bbl. Op to pit for 24 hrs w/gas ARO 400 MCFPD. Final 8 hr test flwd ARO 525 MCFGPD on 3/4" ck, TP 160#. Acidized Morrow perfs 11,134-95' w/3000 gals MS acid cont'g 1000 SCF N₂/bbl. Frac'd Morrow perfs 11,134-95' w/5000 gals 2% KCL pad, 25,000 gal cross linked w/2% KCL wtr & 32,500# sd. Flushed w/125 bbls 2% KCL. All fluid cont'd 1000 SCF CO₂/bbl. Unloaded well & swbd to clean up. GTSTM. POH w/tbg & pkr. RIH w/cmt retr, set retr @ 11,015'. Pmpd 1000 gals Tembloc 720 into perfs 11,134-195'. Did not squeeze. Spotted 500 gals Tembloc across perfs 11,134-195'. MP 2000#. Perf'd squeeze holes @ 11,071 & 11,093' w/4 JSPF (8 holes). RIH w/pkr, set above perfs & pumped into perfs w/1500#. POH w/pkr. Ran cmt retr. Set @ 10,995'. Squeezed perfs @ 11,071' & 11,093' w/100 sx Cl H cmt cont'g .3% Halad 22, 5# KCL/sk. MP 2600#. Drld cmt retr & cmt 10,997-11,093' Press tested csg to 1500# 30 mins OK. Drld cmt retr @ 11,015', lowered bit to 11,115' PBD. POH w/bit. RIH w/lok-set pkr on 2-7/8" tbg, set pkr @ 11,116'. Swbd perfs 11,134-195' 9 hrs rec 27 BFW, gas 12 MCFPD. POH w/pkr & tbg. RIH w/CIBP, set BP @ 11,060' & capped w/20' cmt. Perf'd Atoka w/2 JSPF 10,477-10,483' (12 - .48" holes). RIH w/sub, SN, lok-set pkr, EL receptacle 2-7/8" OD EUE tbg. Set pkr @ 10,357', TP @ 10,374'. Acidized Atoka 10,477-83' w/2000 gals 15% HCL cont'g 1000 SCF N₂. Flwd to pit to clean up. Flwd thru separator 15 hrs ARO 575 MCFPD on 3/4" ck. TP 200#. On 6 hr test 12/7/77 flwd perfs 10,477-83' ARO 625 MCFGPD, 7.5 bbls cond. FTP 525# on 3/4" ck. SITP 600#. Final SITP @ 7:00 AM 12/8/77 3000#. On 4 pt test 12/13/77 indicated A CAOFP of 1.166 MMCFPD. Completed as a single gas well in Atoka Perfs 10,477-10483'. Shut-in WOPLC. Final Report.