

PENNZOIL UNITED, INC.

MOBIL "12" FEDERAL NO. 1

660 FNL & 1980 FEL

Sec. 12, T-23-S, R-26-E

Eddy County, New Mexico

**RECEIVED**  
DEC 23 1968  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

DRILL STEM DATA:

DST #1 10,066 - 10,114': used 2,000' WB - 15" pre-flow, WBTS 10", GTS 13" on 1" ck w/380# press. @ rate of 10,000 MCFGPD @ end of 15" pre-flow - S.I. 1 hr ISIP - opened tool 1 hr - Flwd 25 min on 1" ck w/370# press. @ rate of 9,750 MCFGPD, then flwd 35" on 5/8" ck w/820# press. @ rate of 8,000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd 2 1/2 hrs on 1/2" ck w/1400# pressure @ rate of 9,200 MCFGPD, then flwd 3 1/2 hrs on 3/8" ck w/2,000# pressure @ rate of 6,600 MCFGPD. The 6 hr flow was stabilized - Oil rec. for 2 1/2 hr period was 16 bbls 66 grav, no wtr - Oil rec for 3 1/2 hr period was 23 bbls of 66 grav, no wtr - S.I. 11 1/2 hr FSIP. - IFP 1257# - FFP 1501# - 1 hr 2nd flow - IFP 1,000# - FFP 1539# - 6 hr 3rd flow - IFP 889# - FFP 2848# - 1 hr ISIP 5927# - 1 hr 2nd SIP 5901# - 11 1/2 hr FSIP 5888# - HPI 6414# - HPO 6427# - BHT 120° - Sample chamber cont. 25 CFG & 80 cc oil - P.O. small amount GCM

DST #2 10,377 - 10,405': used 2500' WB, 15" pre-flow, gd. blow, WBTS 14", GTS 15" - 1 hr ISIP - 1 hr 2nd flow on 1" ck, G.V. 5.5 MMCFGPD w/sli spray of dist. - 1 hr 2nd S.I. - 2 hr 3rd flow 1/2" ck, G.V. 1.99 MMCFGPD - 2 hr 3rd S.I. - 2 hr 4th flow, 1st hr on 1" ck, G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck, G.V. 4 MMCFGPD - 3 hr FSIP - Sample chamber cont. 3.5 CFG, 80cc O&GCM w/2,000# pressure - HPI 6569# - HPO 6532# - ISIP 5583# - 2 nd SI 5510# - 3rd S.I. 5550# - FSIP 5564# - IF 1054# - 2nd flow 579# - 3rd flow 550# - FF 761#

DST #3 10,424 - 10,516': 15" pre-flow, strong blow 5" & died - have hole in drill pipe or tool gave away - Bleeding off press since 5:00 AM - Prep to come out of hole - Tool failed to open - Now coming out of hole w/test tool

DST #4 10,419 - 10,518': 20" pre-flow, no blow - IF 1118# - FF 1099# - 1 hr ISIP 1265# - tool open 2 hrs, no blow - IF 1099# - FF 1118# - 1 hr FSIP 1136# - BHT 176° - HPI 6698# - HPO 6683# - rec. 2,000' WB, no gas, oil or wtr - Sample chamber cont. 100# press, no fluid - no gas

DST #5 10,838 - 10,896': ran 2,000 WC - 15" pre-flow, gd. blow - 1 hr ISIP - GTS 55" after closing tool for ISIP - tool has been open 3 hrs, WCTS 1 hr 45 min - Now cleaning up - Flwg. 1.9 MMCF plus WC & gd spray of dist. - S.I. for 2 hr SIP - reopened 2 hrs - Gas @ rate of 2.9 MMCFGPD, decr. to 2.3 MMCFGPD @ end of test on 1" ck - 3 hr FSIP - rec. 710' WC & 180' WCDM - Sample chamber cont. 300# press, 1.95 CFG & 240cc drlg. fluid - 15" pre-flow press - IF 1045# - FF 1026# - 1 hr ISIP 5170# - 4 1/4 hr 2nd flow, IF 1045# - FF 916# - 2 hr SIP 5170# - 2 hr 3rd flow, IF 768# - FF 695# - 3 hr FSIP 5170# - HPI 6919# - HPO 6864# - BHT 186°

DST #6 11,257 - 11,284': tool open 2 hrs 15 min - fair blow, GTS 1 hr 45 min-TSTM - rec. 2500' WB-sli gas cut & 330' SGCØM - 1 hr ISIP 6091# - 3 hr FSIP 5041# - IF 1339# - FF 1560# - HPI & HPO 7136#