

SUPERIOR - G. T. McALPIN #1-23

LEA COUNTY, NEW MEXICO

Drill-Stem Tests:

- DST #1 6008-6033. JFT T.O. 97 mins. WBA increasing to strong BA in 10 mins and for remainder of test. Shut in 30 mins. Rec 2500' gas in DP plus 200' H&MCO plus 43' GCM, slightly water cut (18,400 ppm) FBHP 0-150#, 30 min SIBHP 2050#. Hydrostatic 3100#.
- DST #2 6033-48 JFT. T.O. $\frac{1}{2}$ hour. No blow. Opened bypass no blow. Rec 10' mud, no shows. FBHP 0#, 15 min SIBHP 500#, Hydrostatic 3075#.
- DST #3 6110-40' JFT T.O. $\frac{1}{2}$ hour. WBA thruout. Rec 60' mud, no shows. FBHP 0#, 30 min SIBHP 2125#. Hydrostatic 3150#.
- DST #4 8681-8707. JFT T.O. 15 mins. VWBA to dead in 15 mins. Rec 3' mud, no shows. FBHP 0#, 15 min SIBHP 0#, Hydrostatic 3025#.
- DST #5 8808-35. JFT T.O. 1 hour. Strong BA thruout. Rec. 20' sulfur water CL 2,750 ppm) plus 3100' free gas in DP. FBHP 0#, 30 min SIBHP 775#, Hydrostatic 4125#.
- DST #6 9982-10027 HFT T.O. $1\frac{1}{2}$ hours. Strong BA W/GTB in 14 mins. Gas vol 21 MCFFD, shut in 30 mins. Rec 950' PLO, Gty 42°, plus 50' HO&GCM, No water, FBHP 825-1030#, 30 min SIBHP 3860#, Hydrostatic 5620# in & 5530# out.
- DST #7 10026-10077 HFT T.O. for 20 mins, no blow, opened bypass, no blow. Rec. 1033' mud, FBHP 500#, HP 4800#, tool opened going in hole. Rerun T.O. 15 mins, no blow, opened bypass, no blow, BI 15 mins. Rec 85' mud NS. FBHP 0#, 15 min SIBHP 0#, HP 4680# in & 4590# out.
- DST #8 10103-124 HFT T.O. 1 hour VWBA thruout. Rec. 30' SGCM plus 35' muddy SW (CL 168,000 ppm, FBHP 0-65#, 30 min SIBHP 130#, Static 5065# in & 5035# out.
- DST #9 11107-122 HFT T.O. 110 mins, strong blow air @ start decreasing to GBA @ end. Rec 40' mud plus 50' SG&GCM. FBHP 60#, 30 min SIBHP no good. Static 5250# in & out.
- DST #10 11123-11159. HFT ^{/1200' WC} T.O. $\frac{1}{2}$ hour. VWBA to dead in 20 mins. Shut in 30 mins. Rec WC plus 30' mud, no shows. FBHP 590-625#, 30 min SIBHP 665#. Hydrostatic 5360# in & 5225# out.
- DST #11 12223-255 (Devonian Lime) HFT 2350' WC. T.O. for 90 mins, shut-in 30 mins. WBA @ start steadily increasing to GBA thruout, GTE 96 mins, TEM. Rec. 2150' WC plus 200' muddy WC plus 120' GCM plus 30' HO&GCM. FBHP 1100-1100#, 30 min SIBHP 1950#, Hydrostatic 5900#.
- DST #12 12254-275 (Devonian Lime) HFT 2350' WC, T.O. for 45 mins. Shut-in 15 mins. VWBA to dead in 35 mins. Rec. 35' SGCM. FBHP 1090-1090#, 15 min SIBHP 1210#, Hydrostatic 5740# in & 5855# out.
- DST #13 12,275-305. HFT 2350' WC. T.O. 30 mins. VWBA to dead in 20 mins. Rec. 2400' fluid incl 2350' WC plus 50' drlg mud, no shows. FBHP 1100-1100#, 15 min SIBHP 1130#, HP 5840#.
- DST #14 12,304-330 HFT 2395' WC. T.O. for 30 mins. VWBA to dead in 20 mins. Rec WC plus 40' drlg mud, no shows. BHFP 1130#, 15 min SIBHP 1310#. Hydrostatic 5870# in & 5835# out.
- DST #15 12,329-355. HFT 2410' WC. T.O. for 60 mins. Medium BA to SEA thruout test. Rec. 4660' fluid as follows: 2410' WC, 2250' Salty sulfur water 20,000 ppm. FBHP 1315#-1995#, 30 min SIBHP 5035#. HP 5930# in & 5900# out.

