

ARCO FEDERAL "10" NO. 1

- 10-18 - TD 7702', dev. $2\frac{1}{4}$ deg. @ 7702'. DST # 1: 7675-7702', tool open 20 mins. preflow, string blow, 10# on $\frac{1}{4}$ " ck., S.I. 60 mins., GTS 7 mins. after S.I. Reopened tool 2 hrs. w/strong gas flow 2 hrs., 2# on $\frac{1}{2}$ " ck. Surface press heading on $\frac{1}{4}$ " ck. S.I. 4 hrs. Rec. 4550' very heavy gas cut sulphur water. IHP 3080 (60 mins.), 2nd FP - 372-1937 (120 mins.), FSIP 3051 (4 hrs.), BHT 134 deg. F, sampler rec. 0.60 cu. ft. gas @ 750 psig + 1700 cc sulphur water; drlg. ahead.
- 10-26 - T.D. 9123'. DST # 2: 9039-9123'. Tool open on $\frac{1}{4}$ " ck. for 10 mins., GTS in 5 mins. @ 560#, closed in @ 680# on $\frac{1}{4}$ " ck. S.I. for 1 hr., bled pressure off during S.I. to 60#. Reopened 2 hrs., pressure 130# in 2 mins., 750# in 10 mins., 1160# in 19 mins., 1420# in 41 mins., 1420# in 51 mins., flow rate 2400 MCF/D, in 59 mins. pressure decreased to 1390#, @ 61 mins. fluid to surface, for balance of test pressure headed 1360-1440#. Heavy flow of water & gas cut w/drlg. mud, 30,000 PPM Cl, S.I. 3 hrs., now pulling out of hole. Rec. 1734' slightly mud & heavy gas cut sulphur water, 50,000 PPM Cl from sample on top of tool. IHP 4253, PFP 1504-1887 (10 mins.), ISIP 3524 & building (1hr.), IFP-1617, FFP 2271 & decreasing, FSIP 3345 (3 hrs.), FHP 4253, now drlg. ahead.
- 10-27 - T.D. 9160'. DST # 3: 9139-9160', 8' drlg. break from 9144' to 9152'. Tool open initially 15 mins., GTS in $3\frac{1}{2}$ mins., end of 15 mins. had 540# on $\frac{1}{4}$ " ck. S.I. 1 hr. Tool now open on $\frac{1}{4}$ " ck., 55 mins., 1500#, flow rate 2205 MCF, 1550# in 60 mins. on $\frac{1}{4}$ " ck., 1600# in 65 mins. on $\frac{1}{4}$ " ck., flow rate 2350 MCF, pressure & rate still increasing.
- 10-28-70 - DST # 3 cont.: tool open 3 hrs., $\frac{1}{4}$ " ck., surface press. 1860 psig, flow rate 2740 MCF/D, S.I. 5 hrs., rec. 5' drlg. mud, IHP 4333#, PFP 665 (15 mins.), ISIP 3715 (50 mins.), IFP 733, FFP 2179 (180 mins.), FSIP 3636 & building (5 hrs.), FHP 4310#, BHT 176° F. Drlg. @ 9217', lime, sand & shale. Vis 56, MW 8.8, WL 6.4, FC 1/32, Ph 11.

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APR 21 1971
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