

Pennzoil "13" Federal No. 1

(Attachment for U.S.G.S. Form 9-331)

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SEP 24 1971
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

DST # 1, 8670'-8725'

T.D. 8727'. Tool open initially 15 mins., GTS in $12\frac{1}{2}$ mins., 60 psi on $\frac{1}{4}$ " choke. At end of 15 mins., 75 psi on $\frac{1}{4}$ " choke.

<u>Time</u> (Minutes)	<u>Surface Pressure</u> (P.S.I.)	<u>Rate</u> (MCF/day)
10	115	188
20	160	255
30	200	313
40	220	342
50	240	372
60	260	402
70	270	416
90	290	426

Tool closed 1 hr., reopened for 3 hrs., $\frac{1}{4}$ " choke.

100	300	458
110	310	475
120	315	482
130	315	482
140	320	490
150	325	497
160	330	504
170	335	511
180	335	511

Tool closed 6 hrs. Recovered 120' slightly gas cut drilling mud. IHP 4153, PFP 206-229 (15 mins.), ISIP 3524 (60 mins.), IFP 183, FFP 458, FSIP 3547, FHP 3905. Sampler rec. trace of gas cut drilling mud.

DST # 2, 8745'-8780'

Tool open @ 5:54 p.m. on $\frac{1}{4}$ " ck. for 15 mins., max. press. 240#, GTS in $14\frac{1}{4}$ mins. Tool shut in 60 mins., tool reopened for $2\frac{1}{2}$ hrs. on $\frac{1}{4}$ " choke.

<u>Time</u> (Minutes)	<u>Surface Pressure</u> (P.S.I.)	<u>Rate</u> (MCF/day)
90	815	1210
120	845	1260
150	860	1280

Shut in 5 hrs. Rec. 150' gas cut drilling mud w/trace of distillate, sampler rec. ~ 341 cu. ft. gas & 8 cc distillate @ 3100 psi. IHP 4035, PFP 230-269, ISIP 3568, IFP 307, FFP 1115, FSIP 3490, FHP 4015, BHT 140° F.