5-31-72 - Drilled to T.D. 9033'. Running DST # 3, 8944'-9033'. Tool open initially 20 mins., GTS in 8 mins., 65# on 3/8" ck. At end of 20 mins., 175# on 3/8" ck., gas rate 639 MCF/D. Shut in 1½ hrs., reopened on 3/8" ck. Flowed as follows: **RECEIVED** 

Time	Surface Pressure	Rate MCF/D	
5 mins.	120 psig	452	JUN 2 1 1974
15	220	792	0011/2 1974
30	300	1064	
45	330	1166	
60	345	1217	ARTESIA, OFFICE

Steady from 60 mins. to 150 mins., pressure varied from 340 to 355 psig, approx. 1230 MCF/D. Still open, will close at end of 180 mins.

6-1-72 - Drlg. @ 9120' in sand & shale. Made 87' past 24 hrs. Bit # 7, J-55. Vis 74, MW 8.7, WL 18, FC 3/32. DST # 3 continued: Shut in 1½ hrs., reopened on 3/8" ck. Flowed as follows:

Time	Surface Pressure	Rate MCF/D
90 mins.	355 psig	1251
105	355	1251
120	350	1234
130	340	1200
140	345	1217
150	340	1200
170	335	1183
180	335	1183 S.I.

At 9 a.m. shut in 6 hrs. At 3 p.m. pulled loose, recovered 100', mud sampler at 2500 psig. Recovered 20.4 cu. ft. gas, IHP 4319, Preflow 322, ISIP 3463, IFP 300, FFP 515, FSIP 3213, FHP 4172, Temp. 162 deg. F.

D.S.T. # 4,7770-7830', Straddle Packer Test

6-4-72 - T.D. 9235'. DST # 4 straddle packer test, 7770'-7830', continued. Tool opened w/strong blow. GTS in 18 mins. Strong steady blow of gas TSTM for 4½ hrs., SI 4½ hrs. Recovered 1160' fluid in drill pipe. Reversed out 5 bbls. 45 deg. API clean oil plus 3 bbls. oil & gas cut mud and filtrate water. Chlorides 7000 to 9000 PPM. Drilling mud chlorides 9000 PPM. Sampler recovery - 2600 cc fluid at 2500 psi with .68 cu. ft. gas. Water from sampler checked 7500 PPMC1. Pressures: IHP 3636, Preflow 152 to 202, ISIP 3117, FHP 3558. Went back in hole w/bit, circulated to condition hole, circulating out large pieces of shale. Barnett Zone heaving heavily. Conditioning hole to run 4½" casing.