

LAKE FEDERAL NO. 1

D.S.T. SUMMARY

APPROVED

1975

D. C. C.
ARTESIA, OFFICE

D.S.T. NO. 1, 9338'-9550'

Tool opened w/weak blow increasing to good blow. Tool open 45 mins., closed 95 mins. Reopened w/GTS immediately, in 5 mins. on 3/8" choke had 11# surface pressure & 82 MCF/day, in 10 mins. on 3/8" choke had 10# surface pressure & 78 MCF/D. Pressure and rate declining to zero surface pressure in 35 mins. Left tool open total of 60 mins. w/fair blow, tool closed 2 hrs. Recovered 275' of gas cut drilling fluid. IHP 4518, PFP 71-88 in 45 mins., ISIP 2428 & building in 95 mins., IFP 71, FFP 88 in 60 mins., FSIP 2393 & building in 120 mins., FHP 4518, BHT 160 deg. F. Drilling fluid - 90,000 PPMCl, water sample on top of test tool - 94,000 PPMCl.

D.S.T. NO. 2, 10,587'-10,887'

Tool opened w/weak blow increasing to very good blow, on 3/8" choke had GTS in 5 mins. Tool open 15 mins., at end of 15 mins. had 1195# surface pressure & 4107 MCF/day. Shut in 120 mins. w/600# trapped on drill pipe. Reopened tool 120 mins. total - all on 1/4" choke:

<u>Time</u>	<u>Surface Pressure</u>	<u>Rate (MCF/day)</u>
15	1965	2906
23	- Water & drilling mud put out flare - too wet to burn, alternately burned gas and vented water and gas throughout remainder of test.	
30	2925	4319
40	3000	4429
50	3005	4436
60	3015	4451
75	3000	4429
90	3015	4451
120	3015	4451

Tool closed 6 hrs. 30 mins. Recovered 60' condensate cut drilling fluid & 470' drilling fluid. Top Pressure Bomb - 10,563': IHP 5457, IPFP 1722, FFPF 2120 in 15 mins., ISIP 4431 in 2 hrs., IFP 2386, FFP 4029 in 2 hrs., FSIP 4386 in 6 1/2 hrs., FHP 5457. Bottom Pressure Bomb - 10,883': IHP 5636, IPFP 1987, FFPF 2430 in 15 mins., ISIP 4520, IFP 2430, FFP 4073, FSIP 4475, FHP 5636 BHT 176 deg.