

#### PLUGGING DATA:

Placed cement plugs in open hole from:  
10040' to 9965' w/ 37 sx. cement  
9920' to 9850' w/ 28 sx. cement  
9230' to 9180' w/ 19 sx. cement  
8960' to 8910' w/ 19 sx. cement  
5860' to 5785' w/ 35 sx. cement  
Placed cement plug in open hole and 9-5/8" OD Casing from:  
3825' to 3754' w/ 35 sx. cement  
Placed cement plug in 9-5/8" OD Casing:  
3500' to 3435' w/ 25 sx. cement  
Placed cement plug in top of 13-3/8" OD Casing:  
20' to surface w/ 10 sx. cement  
Heavy mud laden fluid placed between plugs.

#### DRILL STEM TESTS:

- DST # 1 Lower Leonard from 8965' to 9009', 1" x 5/8" chokes, tool open 3 hours, no blow when opened. Closed and re-opened tool after 30 minutes. Recovered 15' of mud, no oil, gas or formation water, 30 minutes initial shut in pressure 45#, 1 hour final shut in pressure 60#, flowing pressure initial 45# final 60#, hydrostatic pressure 4173#, bottom hole temperature 158 deg.
- DST # 2 Wolfcamp from 9890' to 10,079', 5/8" x 5/8" chokes, no water blanket, tool open 3 hours, had good air blow immediately, decreased to fair blow at end of test. Recovered 900' of gas and salt water cut mud and 3400' of clear salt water. 30 minute initial shut in pressure 3965#, flowing pressure initial 265#, final 2000#, 1 hour final shut in pressure 3685#, hydrostatic pressure 4665#, bottom hole temperature 144 deg.
- DST # 3 Strawn from 11,020' to 11,072', 1" x 5/8" chokes, tool open 3 hours, no air blow when tool opened. Closed and re-opened tool after 30 minutes, very slight air blow. Recovered 10' drilling mud, no oil, gas or water. 30 minute initial shut in pressure 45#, flowing pressure initial 45#, final 55#, 1 hour final shut in pressure 45#, hydrostatic pressure 5555# - 5455#, bottom hole temperature 154 deg.
- DST # 4 Strawn from 10,878' to 11,160', 1" x 5/8" chokes, no water blanket, tool open 3 hours, when tool opened had very weak air blow to surface for 10 minutes and died. Recovered 60' of drilling mud, no oil, gas or formation water. 30 minute initial shut in pressure 225#, flowing pressure initial 230#, final 230#, 60 minute final shut in pressure 230#, hydrostatic pressure 5625#, bottom hole temperature 158 deg.

#### DEFLECTION TESTS

FOOTAGE	DEGREES	FOOTAGE	DEGREES	FOOTAGE	DEGREES
100	1/4	7932	1-3/4	9714	2-3/4
350	1/4	8307	1-1/4	9761	2-3/4
2140	1/4	8569	2-1/4	9795	2-3/4
2870	1	8589	2	9837	2-3/4
3198	1-1/4	8730	2	10040	2-1/2
3439	1	8760	2	10078	3
3607	1/4	8792	1-1/2	10120	3
3800	1/4	8824	1-3/4	10151	3
5005	1	8849	2	10174	3
5256	1	8924	2	10247	3
5531	1	8976	1-3/4	10264	3
6241	3/4	9079	2	10435	3-1/4
6610	3/4	9189	2	10614	2-3/4
6974	1	9251	2-3/4	10647	3
7176	1	9303	2-1/4	10772	2-1/4
7460	1-1/4	9469	2	10863	2-1/2
7662	1-1/4	9508	2-1/4	10966	2-1/4
7862	2	9571	2-3/4	11140	2-1/4
		9598	2-1/2		