

PROPOSED WELL PLAN OUTLINE

WELL NAME **Lockhart A-18 No. 9**
 LOCATION **660' FSL & 760' FWL S18-T21S-R36E**

GL = 3615'
 ALL DEPTHS ARE
 BELOW GROUND LEVEL

TD	MD	FORMATION	DRILLING PROBLEMS & COMMENTS	FORMATION EVALUATION	HOLE SIZE	CASING PROGRAM	FRAC GRAD	FORMATION PRESSURE GRADIENT	MUD WEIGHT & TYPE	DAYS
0	0		Possible hole enlargement and sloughing		12-1/4"	8-5/8", 23#, M-50 ST&C @ 450'			Spud	
1000	1000	Rustler @ 1450' Top Salt @ 1560'	Washouts in Salt Section		7-7/8"	330 sx. Circulate Cement		Less than 8.3	10 ppg Brine	1
2000	2000	Base Salt @ 2970'								
3000	3000	Yates @ 3150'	Possible Deviation	H2S Monitor on at 3000'		Top Tail Cement @ 2970'				
4000	4000	7-Rivers @ 3390'								
		Queen @ 3760'	EMSU waterflood @ 3715'. Nearest injector is 3/4 miles away			4-1/2", 11.6#, K-55, LT&C @ 3800'			Starch/salt gel	6
		TD @ 3800'		GR-CAL-CNL-FDC-MLL-DLL-PE		985 sx. Circulate Cement Displace with Acid followed by water. Volumes to be provided by production Engr.			at TD for Logs & casing.	7
5000	5000									7

Jim Tietema
 Jim Tietema, Drilling Engineer

30-Mar-98

Tim Schnieder
 Tim Schnieder, Production Engineer

11-Mar-98

Trent C. Boneau
 Trent Boneau, Reservoir Engineer

11-Mar-98