

4-11-12W

W E L L L O G

OPERATOR: Liberty Enterprises, Inc.

WELL NAME: Orlan Carmichael #1 LOCATION: SW SE NE 4-11S-17W

COUNTY: Ellis STATE: Kansas

WELL COMMENCED: February 4, 1980 WELL COMPLETED: February 13, 1980

ELEVATION: 1926' K.B. TOTAL DEPTH: 3540'

PRODUCTION: Oil RIG NO: #1

CASING - 8-5/8": 201.89' of 28# cemented with 130 sxs common 2% gel 3% cc

5-1/2": 3535' of 14# cemented with 200 sxs 60-40 poz 8% salt  
96 Jts., 1014' yellow wrap, Plug down @ 11:40 P.M.

ALL MEASUREMENTS TAKEN FROM THE TOP OF ROTARY BUSHING:

FROM	TO	FORMATION	DEVIATION FROM VERTICAL	REMARKS:
0'	210'	surface sand		
210'	524'	sand and clay		
524'	1157'	sands and shales	800' - 1 degree	
1157'	1159'	sand and shale		
1159'	1193'	Anhydrite		
1193'	1808'	sand and shale		
1809'	1925'	shale and sand	1925' - 1 degree	
1925'	1995'	shale and lime		
1995'	2210'	shales and shells		
2210'	2472'	shale and lime		
2472'	2726'	shale and lime		
2726'	2904'	limes and shales		
2904'	2950'	limes and shale		
2950'	3035'	shale and lime		
3035'	3157'	lime and shale		
3157'	3250'	limes and shales	3250' - 1 3/4 degrees	
3250'	3250'	lime and shale		
3250'	3340'	lime and shale		
3340'	3380'	lime and shale		
3380'	3462'	limes and shales	3462' - 1 3/4 degrees	
3462'	3498'	lime and shale		
3498'	3500'	shale and lime		
3500'	3513'	lime and shale		
3513'	3540'	shale and lime		
3540'	RTD			