PI

2-5-22W

State Geological Survey
WICHITA, BRANCH

WELL LOG

OPERATOR: Leben Oil Company

WELL NAME: Hansen Estate Unit 8-1 LOCATION: NW NE 2-5-22W

COUNTY: Norton STATE: Kansas

WELL COMMENCED: February 7, 1981 WELL COMPLETED: February 13, 1981

ELEVATION: 2085' K.B. TOTAL DEPTH: 3518'

PRODUCTION: Oil RIG NO: #4

CASING - 8 5/8": Tallied @231.67 Set @ 243' 22 1/2# new cemented with 180 sxs common 3%cc 2% gel cement did circ P.D. @ 10:00 A.M. 2-8-81

4 1/2" XXXXXX: Tallied @3500.61 Set @3509' 80 JTS new, cemented with 150 sxs 50-50 poz 18% salt 1% of 3% CFR-2 P.D. @ 4:45 P.M.

ALL MEASUREMENTS TAKEN FROM THE TOP OF ROTARY BUSHING:

FROM	TO	FORMATION	DEVIATION FROM VERTICAL	REMARKS:
0'	48'	sand and clay		
48'	243'			
243'	290'	cemant, sand and clay		
290'	1050'	sand and clay		
1050'	1706'	shale and sand		
1706'	1733'	ANHYDRITE		
1733'	1738'	ANHYDRITE		
1738'	1928'	shales	1928' - 1 - degree	
1928'	2022'	shales		
2022'	2260'	shales		
2260'	2490'	shales		
2490'	2677'	shale and lime		
2677'	2679'			
2679'	2828'	lime and shale		
2828'	3014'	shale and lime		
3014'	3185'	shale and lime		
3185'	3325'	lime and shale		
3325'	3470'	shale and lime		
3470'	3488'	shale and lime		
3488'	3518'			
3518'	RTD			

STATE OF KANSAS
COUNTY OF