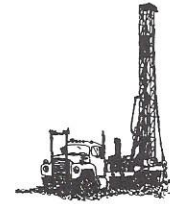


LEIS OIL SERVICES



1410 150th Rd. • Yates Center, Kansas 66783 • (620) 212-0752

Operator License #: 9267	API #: 15-003-26025-00-00
Operator: JRC Oil Co, Inc.	Lease: Kretchmer
Address: PO Box 426 Garnett KS 66032	Well #: KJ-46
Phone: 785-448-8112	Spud Date: 10-08-13 Completed: 10-09-13
Contractor License: 32079	Location: S2-NW-NW-NE of 33-20-21E
T.D. : 728 T.D. of Pipe: 725 Size: 2.875"	4785 Feet From South
Surface Pipe Size: 7" Depth: 21'	2310 Feet From East
Kind of Well: Oil	County: Anderson

LOG

Thickness	Strata	From	To	Thickness	Strata	From	To
45	Soil/Clay/Shale	0	45				
45	Lime	45	90				
30	Shale	90	120				
9	Lime	120	129				
24	Shale	129	153				
10	Lime	153	163				
6	Shale	163	169				
38	Lime	169	207				
7	Shale/Black Shale	207	214				
24	Lime	214	238				
5	Shale	238	243				
15	Lime	243	258				
162	Shale	258	420				
3	Lime	420	423				
7	Shale	423	430				
16	Lime	430	446				
51	Shale	446	497				
17	Lime	497	514				
9	Shale	514	523				
3	Lime	523	526				
2	Black Shale	526	528				
2	Lime	528	530				
23	Shale	530	553		T.D.		728
5	Lime	553	558		T.D. of Pipe		725
25	Shale	558	583				
3	Lime	583	586				
26	Shale	586	612				
50	Oil Sand	612	662				
66	Shale	662	728				