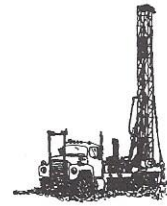


LEIS OIL SERVICES



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

Operator License #: 9267	API #: 15-003-26035-00-00
Operator: JRC Oil Co, Inc.	Lease: Kretchmer
Address: PO Box 426 Garnett KS 66032	Well #: KL-48
Phone: 785-448-8112	Spud Date: 10-15-13 Completed: 10-16-13
Contractor License: 32079	Location: N2-NW-NW-NE of 33-20-21E
T.D. : 741 T.D. of Pipe: 738 Size: 2.875"	5115 Feet From South
Surface Pipe Size: 7" Depth: 21'	1980 Feet From East
Kind of Well: Oil	County: Anderson

LOG

Thickness	Strata	From	To	Thickness	Strata	From	To
47	Soil/Clay/Shale	0	47	3	Black Shale	601	604
2	Lime	47	49	21	Shale	604	625
5	Shale	49	54	16	Oil Sand/light show	625	641
26	Lime	54	80	23	Good Oil Sand	641	664
40	Shale	80	120	77	Shale	664	741
10	Lime	120	130				
31	Shale	130	161				
6	Lime	161	167				
5	Shale	167	172				
41	Lime	172	213				
6	Shale	213	219				
6	Lime	219	225				
5	Shale	225	230				
17	Lime	230	247				
167	Shale	247	414				
3	Lime	414	417				
6	Shale	417	423				
8	Lime	423	431				
31	Shale	431	462				
3	Lime	462	465				
18	Shale	465	483				
28	Lime	483	511				
15	Shale	511	526		T.D.		741
4	Lime	526	530		T.D. of Pipe		738
24	Shale	530	554				
4	Lime	554	558				
28	Shale	558	586				
2	Lime	586	588				
13	Shale	588	601				