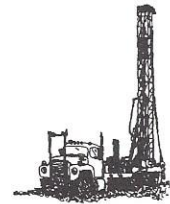


LEIS OIL SERVICES

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



Operator License #: 9267	API #: 15-003-26001-00-00
Operator: JRC Oil Co, Inc.	Lease: Cleveland
Address: PO Box 426 Garnett KS 66032	Well #: CD-46
Phone: 785-448-8112	Spud Date: 10-02-13 Completed: 10-03-13
Contractor License: 32079	Location: SW-NE-NE-NW 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'	3250 Feet From East
Kind of Well: Oil	County: Anderson

LOG

Thickness	Strata	From	To	Thickness	Strata	From	To
26	Soil/Clay/Shale	0	26	3	Lime	577	580
1	Lime	26	27	18	Shale	580	598
5	Shale	27	32	52	Oil Sand	598	650
25	Lime	32	57	78	Shale	650	728
26	Shale	57	83				
2	Lime	83	85				
48	Shale	85	133				
10	Lime	133	143				
6	Shale	143	149				
40	Lime	149	189				
7	Shale	189	196				
24	Lime	196	220				
5	Shale	220	225				
2	Lime	225	227				
4	Shale/Black Shale	227	231				
4	Lime	231	235				
178	Shale	235	413				
3	Lime	413	416				
4	Shale	416	420				
8	Lime	420	428				
51	Shale	428	479				
6	Lime	479	485				
18	Shale	485	503		T.D.		728
3	Lime	503	506		T.D. of Pipe		725
28	Shale	506	534				
9	Lime	534	543				
23	Shale	543	566				
2	Lime	566	568				
9	Shale	568	577				