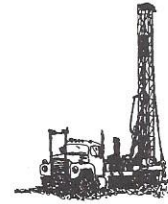


LEIS OIL SERVICES

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



Operator License #: 9267	API #: 15-003-26034-00-00
Operator: JRC Oil Co, Inc.	Lease: Kretchmer
Address: PO Box 426 Garnett KS 66032	Well #: KJ-48
Phone: 785-448-8112	Spud Date: 10-16-13 Completed: 10-17-13
Contractor License: 32079	Location: N2-NW-NW-NE of 33-20-21E
T.D. : 735 T.D. of Pipe: 732 Size: 2.875"	5115 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
48	Soil/Clay/Shale	0	48	11	Lime	551	562
24	Lime	48	72	15	Shale	562	577
25	Shale	72	97	7	Lime	577	584
2	Lime	97	99	9	Shale	584	595
20	Shale	99	119	3	Lime	595	598
3	Lime	119	122	25	Shale	598	623
32	Shale	122	154	2	Broken Sand	623	625
8	Lime	154	162	46	Good Oil Sand	625	661
5	Shale	162	167	2	Sand/Dark Shale	661	663
39	Lime	167	206	72	Sandy Shale	663	735
6	Shale	206	212				
28	Lime	212	240				
3	Shale	240	243				
3	Lime	243	246				
3	Shale	246	249				
7	Lime	249	256				
164	Shale	256	420				
2	Lime	420	422				
8	Shale	422	430				
3	Lime	430	433				
6	Shale	433	439				
6	Lime	439	445				
32	Shale	445	477		T.D.		735
3	Lime	477	480		T.D. of Pipe		732
19	Shale	480	499				
15	Lime	499	514				
7	Shale	514	521				
5	Lime	521	526				
25	Shale	526	551				