

Operator License # 32834
 Operator JTC Oil, Inc.
 Address 35790 Plum Creek Road
 City Osawatomie, KS 66064
 Contractor JTC Oil, Inc.
 Contractor License # 32834
 T.D. 740'
 T.D. of pipe 717'
 Surface pipe size 7"
 Surface pipe depth 20'
 Well Type Injection

API # 15-121-30438-00-00
 Lease Name Cooper
 Well # I-9
 Spud Date 10/18/2014
 Cement Date 11/3/2014
 Location Sec 9 T 17 R 22
 660 feet from S line
 660 feet from E line
 County Miami

Driller's Log

Thickness	Strata	From	To	
2	soil	0	2	
2	lime	2	4	
3	clay	4	7	
89	shale	7	96	
18	lime	96	114	
30	shale	114	144	
4	lime	144	148	
45	shale	148	193	
14	lime	193	207	
10	shale	207	217	
28	lime	217	245	
7	coal	245	252	
22	lime	252	274	
4	coal	274	278	
13	lime	278	291	
136	shale	291	427	
7	lime/shale	427	434	
17	lime/sand	434	451	
3	shale	451	454	
13	lime	454	467	
47	shale	467	514	
7	lime	514	521	
18	shale	521	539	
3	lime	539	542	
16	black shale	542	558	
2	lime	558	560	
21	shale	560	581	
3	lime	581	584	
34	shale	584	618	
4	oil sand	618	622	ok
4	oil sand	622	626	ok
4	oil sand	626	630	ok
4	oil sand	630	634	good
4	shale/sand	634	638	broken

4	shale/sand	638	642	broken
4	oil sand	642	646	ok
4	oil sand	646	650	good
4	oil sand	650	654	ok
4	oil sand	654	658	good
4	oil sand	658	662	good
4	oil sand	662	666	good
4	sand	666	670	good
4	oil sand	670	674	good
4	oil sand	674	678	ok
4	oil sand	678	682	good
4	oil sand	682	686	v-good
4	oil sand	686	690	v-good
50	shale	690	740	