

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. 720'
 T.D. of pipe 704'
 Surface pipe size 7"
 Surface pipe depth 20'
 Well Type Injection

API # 15-121-30924-00-00
 Lease Name Cooper
 Well # I-18
 Spud Date 6/30/2015
 Cement Date 7/16/2015
 Location Sec 9 T 17 R 22
 990 feet from S line
 1320 feet from E line
 County Miami

Driller's Log

Thickness	Strata	From	To	
2	soil	0	2	
5	clay	2	7	
8	lime	7	15	
95	shale	15	110	
19	lime	110	129	
31	shale	129	160	
4	lime	160	164	
42	shale	164	206	
11	lime	206	217	
11	shale	217	228	
25	lime	228	253	
8	coal	253	261	
22	lime	261	283	
4	coal	283	287	
13	lime	287	300	
137	shale	300	437	
28	lime shale	437	465	
2	shale	465	467	
13	lime	467	480	
46	shale	480	526	
7	lime	526	533	
13	shale	533	546	
3	lime	546	549	
19	black shale	549	568	
2	lime	568	570	
21	shale	570	591	
2	lime	591	593	
27	shale	593	620	
3	oil sand	620	623	broke
4	oil sand	623	627	broke
4	oil sand	627	631	broke
4	oil sand	631	635	broke
3	sandy	635	638	
4	oil sand	638	642	ok

4	oil sand	642	646	ok
4	oil sand	646	650	ok
4	oil sand	650	654	ok
4	oil sand	654	658	ok
4	oil sand	658	662	good
4	sandy	662	666	broke
4	sandy	666	670	ok
4	sandy	670	674	
46	shale	674	720	