

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 718'
 Surface pipe size 7"
 Surface pipe depth 20'
 Well Type Production

API # 15-121-30919-00-00
 Lease Name Cooper
 Well # P-37
 Spud Date 1/14/2015
 Cement Date 1/19/2015
 Location Sec 9 T 17 R 22
 1485 feet from S line
 1485 feet from E line
 County Miami

Driller's Log

Thickness	Strata	From	To
2	soil	0	2
6	clay	2	8
2	shale	8	10
23	lime	10	33
95	shale	33	128
18	lime	128	146
31	shale	146	177
4	lime	177	181
40	shale	181	221
16	lime	221	237
9	shale	237	246
27	lime	246	273
7	coal	273	280
23	lime	280	303
4	coal	303	307
12	lime	307	319
137	shale	319	456
22	lime shale	456	478
3	sand	478	481
4	shale	481	485
9	lime	485	494
48	shale	494	542
8	lime	542	550
16	shale	550	566
3	lime	566	569
18	black shale	569	587
3	lime	587	590
18	shale	590	608
2	lime	608	610
34	shale	610	644
2	oil sand	644	646
2	oil sand	646	648
2	oil sand	648	650
2	oil sand	650	652

ok

2	oil sand	652	654	good
2	oil sand	654	656	
2	sandy shale	656	658	
3	sandy shale	658	661	ok
3	oil sand	661	664	good
3	oil sand	664	667	good
3	oil sand	667	670	good
3	sandy shale	670	673	
3	sandy shale	673	676	
64	shale	676	740	