

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 728'
 Surface pipe size 7"
 Surface pipe depth 20'
 Well Type Production

API # 15-121-30913-00-00
 Lease Name Cooper
 Well # P-21
 Spud Date 1/13/2014
 Cement Date 1/19/2015
 Location Sec 9 T 17 R 22
 825 feet from S line
 1485 feet from E line
 County Miami

Driller's Log

Thickness	Strata	From	To	
2	soil	0	2	
4	clay	2	6	
8	lime	6	14	
96	shale	14	110	
19	lime	110	129	
13	shale	129	142	
4	lime	142	146	
12	shale	146	158	
5	lime	158	163	
41	shale	163	204	
14	lime	204	218	
10	shale	218	228	
28	lime	228	256	
6	coal	256	262	
22	lime	262	284	
4	coal	284	288	
16	lime	288	304	
133	shale	304	437	
18	lime shale	437	455	
3	lime	455	458	
3	oil sand	458	461	good
7	shale	461	468	
6	lime	468	474	
50	shale	474	524	
6	lime	524	530	
18	shale	530	548	
3	lime	548	551	
19	black shale	551	570	
2	lime	570	572	
19	shale	572	591	
3	lime	591	594	
27	shale	594	621	
3	oil sand	621	624	ok
3	oil sand	624	627	good

3	oil sand	627	630	good
55	shale	630	685	
3	sandy	685	688	
3	sandy shale	688	691	
49	shale	691	740	