

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 720'
 Surface pipe size 7"
 Surface pipe depth 20'
 Well Type Production

API # 15-121-30423-00-00
 Lease Name Cooper
 Well # P-20
 Spud Date 1/12/2015
 Cement Date 1/13/2015
 Location Sec 9 T 17 R 22
 825 feet from S line
 1155 feet from E line
 County Miami

Driller's Log

Thickness	Strata	From	To	
1	soil	0	1	
7	lime	1	8	
95	shale	8	103	
19	lime	103	122	
29	shale	122	151	
4	lime	151	155	
42	shale	155	197	
14	lime	197	211	
10	shale	211	221	
29	lime	221	250	
8	coal	250	258	
17	lime	258	275	
4	coal	275	279	
12	lime	279	291	
137	shale	291	428	
3	red bed	428	431	
29	lime shale	431	460	
5	lime	460	465	
52	shale	465	517	
6	lime	517	523	
18	shale	523	541	
3	lime	541	544	
17	black shale	544	561	
2	lime	561	563	
18	shale	563	581	
2	lime	581	583	
29	shale	583	612	
3	mix shale	612	615	broken
3	mix shale	615	618	broken
4	mix shale	618	622	ok
4	oil sand	622	626	good
4	oil sand	626	630	good
4	shale	630	634	
4	oil sand	634	638	ok

4	oil sand	638	642	good
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
2	oil sand	662	664	good
2	oil sand	664	666	good
74	shale	666	740	