

Operator License #	32834	API #	15-121-30429-00-00
Operator	JTC Oil, Inc.	Lease Name	Cooper
Address	35790 Plum Creek Road	Well #	P-28
City	Osawatomie, KS 66064		
Contractor	JTC Oil, Inc.	Spud Date	1/2/2015
Contractor License #	32834	Cement Date	1/13/2015
T.D.	740'	Location	Sec 9 T 17 R 22
T.D. of pipe	720'		1155 feet from S line
Surface pipe size	7"		1155 feet from E line
Surface pipe depth	20'	County	Miami
Well Type	Production		

Driller's Log

Thickness	Strata	From	To	
2	soil	0	2	
6	lime	2	8	
96	shale	8	104	
19	lime	104	123	
20	shale	123	143	
10	lime/shale	143	153	
5	lime	153	158	
37	shale	158	195	
18	lime	195	213	
9	shale	213	222	
28	lime	222	250	
7	coal	250	257	
20	lime	257	277	
4	coal	277	281	
12	lime	281	293	
147	shale	293	440	
20	lime/shale	440	460	
9	lime	460	469	
48	shale	469	517	
7	lime	517	524	
17	shale	524	541	
3	lime	541	544	
16	black shale	544	560	
2	lime	560	562	
20	shale	562	582	
3	lime	582	585	
30	shale	585	615	
3	oil sand	615	618	ok
3	oil sand	618	621	ok
3	oil sand	621	624	good
3	oil sand	624	627	v-good
3	oil sand	627	630	v-good
4	oil sand	630	634	v-good
4	oil sand	634	638	ok-mix shale

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