Operator License #	32834	API #	15-121-30420-00-00
Operator	JTC Oil, Inc.	Lease Name	Cooper
Address	35790 Plum Creek Road	Well #	P-18
City	Osawatomie, KS 66064		
Contractor	JTC Oil, Inc.	Spud Date	7/7/2014
Contractor License #	32834	Cement Date	7/18/2014
T.D.	740	Location	Sec 9 T 17 R 22
T.D. of pipe	728		825 feet from S line
Surface pipe size	7"		495 feet from E line
Surface pipe depth	20'	County	Miami
Well Type	Production		

Driller's Log

Thickness	Strata	From	To				
2	dirt	0	2				
8	lime	2	10				
94	shale	10	104				
20	lime	104	124				
17	shale	124	141				
2	lime	141	143				
5	shale	143	148				
5	lime	148	153				
48	shale	153	201				
14	lime	201	215				
9	shale	215	224				
27	lime	224	251				
8	shale	251	259				
21	lime	259	280				
4	shale	280	284				
147	lime	284	431				
2	red shale	431	433				
25	sand	433	458	oil smell			
3	shale	458	461				
12	lime	461	473				
46	shale	473	519				
6	lime	519	525				
16	shale	525	541				
5	lime	541	546				
15	shale	546	561				
4	lime	561	565				
50	mix	565	615				
10	sandy shale	615	625				
2	top	625	627	laminated			
2	top	627	629				
9	laminated	629	638	little bleed	core 1	629	649
9	good bleed	638	647				
9	ok	647	656		core 2	649	669
12	good	656	668				

16	good in spots	668	684	ok	core	669	689
5	ok	684	689		lost core	660	
2	sand	689	691	ok			
2	sand	691	693	ok			
2	sand	693	695	ok			
3	sand	695	698	ok			
2	ok	698	700				
2	sand	700	702	ok			
4	shale	702	706				
2	lime	706	708				
32	shale	708	740				