

Operator License #	32834	API #	15-059-26887-00-00	
Operator	JTC Oil, Inc.	Lease Name	Chase	
Address	35790 Plum Creek Road	Well #	P-1	
City	Osawatomie, KS 66064	Spud Date	2/1/2015	
Contractor	JTC Oil, Inc.	Cement Date	2/5/2015	
Contractor License #	32834	Location	Sec 33	T 17 R 21
T.D.	740'		165 feet from	N line
T.D. of pipe	725'		1155 feet from	W line
Surface pipe size	7"	County	Franklin	
Surface pipe depth	20'			
Well Type	Production			

Driller's Log

Thickness	Strata	From	To	
2	soil	0	2	
8	clay	2	10	
87	shale	10	97	
18	lime	97	115	
27	shale	115	142	
6	lime	142	148	
37	shale	148	185	
17	lime	185	202	
9	shale	202	211	
28	lime	211	239	
8	coal	239	247	
21	lime	247	268	
5	coal	268	273	
11	lime	273	284	
157	shale	284	441	
12	lime	441	453	
48	shale	453	501	
5	lime	501	506	
11	shale	506	517	
2	lime	517	519	
12	black shale	519	531	
2	lime	531	533	
14	shale	533	547	
2	lime	547	549	
2	lime oil	549	551	good
2	lime oil	551	553	ok
2	lime oil	553	555	ok
12	shale	555	567	
61	black shale	567	628	
3	oil sand	628	631	ok
3	oil sand	631	634	ok
2	sandy shale	634	636	
39	shale	636	675	
2	oil sand	675	677	ok

2	oil sand	677	679	good
2	oil sand	679	681	v-good
2	oil sand	681	683	v-good
2	sandy shale	683	685	ok
55	black shale	685	740	