

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. 700'  
 T.D. of pipe 692'  
 Surface pipe size 7"  
 Surface pipe depth 20'  
 Well Type Injection

API # 15-059-26904-00-00  
 Lease Name Chase  
 Well # I-19  
 Spud Date 2/24/2015  
 Cement Date 2/27/2015  
 Location Sec 33 T 17 S R 21 E  
 990 feet from N line  
 1650 feet from W line  
 County Franklin

Driller's Log

Thickness	Strata	From	To	
2	soil	0	2	
14	clay	2	16	
46	shale	16	62	
17	lime	62	79	
29	shale	79	108	
5	lime	108	113	
37	shale	113	150	
17	lime	150	167	
9	shale	167	176	
27	lime	176	203	
9	coal	203	212	
21	lime	212	233	
5	coal	233	238	
12	lime	238	250	
154	shale	250	404	
13	lime	404	417	
50	shale	417	467	
5	lime	467	472	
10	shale	472	482	
2	lime	482	484	
12	black shale	484	496	
3	lime	496	499	
17	shale	499	516	
2	lime oil	516	518	ok
3	lime oil	518	521	good
2	lime oil	521	523	good
34	shale	523	557	
37	black shale	557	594	
2	sandy	594	596	
2	sandy	596	598	
2	sandy	598	600	
44	shale	600	644	
2	oil sand	644	646	broken
2	oil sand	646	648	ok

42	black shale	648	690
10	shale	690	700