

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. 720'  
 T.D. of pipe 696'  
 Surface pipe size 7"  
 Surface pipe depth 20'  
 Well Type Production

API # 15-059-26908-00-00  
 Lease Name Chase  
 Well # P-19  
 Spud Date 2/7/2015  
 Cement Date 2/13/2015  
 Location Sec 33 T 17 S R 21 E  
 825 feet from N line  
 1815 feet from W line  
 County Franklin

Driller's Log

Thickness	Strata	From	To	
2	soil	0	2	
14	clay	2	16	
40	shale	16	56	
18	lime	56	74	
28	shale	74	102	
5	lime	102	107	
38	shale	107	145	
17	lime	145	162	
9	shale	162	171	
28	lime	171	199	
8	coal	199	207	
21	lime	207	228	
4	coal	228	232	
12	lime	232	244	
146	shale	244	390	
20	lime	390	410	
52	shale	410	462	
3	lime	462	465	
10	shale	465	475	
3	lime	475	478	
12	black shale	478	490	
3	lime	490	493	
15	shale	493	508	
1	lime	508	509	
1	coal	509	510	
2	lime oil	510	512	good
2	lime oil	512	514	v-good
2	lime oil	514	516	v-good
1	lime oil	516	517	good
21	shale	517	538	
50	black shale	538	588	
2	sandy	588	590	
3	sandy	590	593	
2	sandy shale	593	595	

40	shale	595	635	
3	oil sand	635	638	ok
2	sand	638	640	broken
2	sand	640	642	ok
4	shale	642	646	
54	black shale	646	700	
20	shale	700	720	