

Operator License #	33741	API #	15-059-26747-00-00		
Operator	Energex Kansas	Lease Name	Thoele South		
Address	2038 S. Princeton St., Ste B	Well #	BSI-TS37		
City	Ottawa, KS 66067	Spud Date	7/19/2014		
Contractor	JTC Oil, Inc.	Cement Date			
Contractor License #	32834	Location	Sec 29	T 18	R 21
T.D.	780		1089 feet from	N	line
T.D. of pipe	755		400 feet from	W	line
Surface pipe size	7"	County	Franklin		
Surface pipe depth	20'				
Well Type	Injection				

Driller's Log

Thickness	Strata	From	To	
2	lime	0	2	
4	clay	2	6	
23	shale	6	29	
27	lime	29	56	
78	shale	56	134	
21	lime	134	155	
26	shale	155	181	
2	lime	181	183	
43	shale	183	226	
15	lime	226	241	
8	shale	241	249	
31	lime	249	280	
8	black shale	280	288	
25	lime	288	313	
5	coal	313	318	
11	lime	318	329	
167	shale	329	496	
16	lime	496	512	
50	shale	512	562	
7	lime	562	569	
11	shale	569	580	
2	lime	580	582	
19	black shale	582	601	
11	lime	601	612	
12	shale	612	624	
2	lime	624	626	
3	coal	626	629	
6	lime	629	635	
3	lime oil	635	638	
3	lime oil	638	641	
7	coal	641	648	
11	sand	648	659	
52	shale	659	711	
2	oil sand	711	713	ok

2	oil sand	713	715	v-good
2	oil sand	715	717	v-good
1	oil sand	717	718	ok
2	sandy	718	720	
2	oil sand	720	722	ok
2	sandy	722	724	
56	shale	724	780	