

DRILL LOG

Operator License# 33741

API # 15-059-26363-00-00

Operator Energex Kansas

Lease Name Thoele south

Address 2038 S. Princeton St., Ste. B , Ottawa, KS

Well # BSP TS 30

Phone 785-241-2228

Spud Date 5/9/13 Cement 5/14/13

Contractor License # 32834

Contractor JTC Oil, Inc.

T.D 820 TD of Pipe 808

3 sacks cement

Surf Pipe Size_7" Depth__20'

County Franklin

<u>Thickness</u>	<u>Strata</u>	<u>From</u>	<u>To</u>	<u>Thickness</u>	<u>Strata</u>	<u>From</u>	<u>To</u>
2	soil	0	2	7	lime	206	213
2	lime	2	4	2	shale	213	215
6	clay	4	10	4	red bed	215	219
17	lime	10	27	37	shale	219	256
29	shale	27	56	15	lime	256	271
35	lime	56	91	10	shale	271	281
71	shale	91	162	28	lime	281	309
19	lime	162	191	11	black shale	309	320
8	shale	181	189	23	lime	320	343
2	lime	181	191	4	coal	343	347
15	shale	191	206	12	lime	347	359
				150	shale	359	510

4	lime	510	514
10	shale	514	524
16	lime	524	540
6	shale	540	546
2	sand	546	548
2	little oil	548	550
2	little oil	550	552
2	little oil	552	554
2	little oil	554	556
2	little oil	556	558
2	oil sand	559-560	ok
2	little oil	560-562	
2	sand	562-564	
22	shale	564-586	
2	coal	586-588	
5	shale	588-593	
8	lime	593-601	
13	shale	601-614	
3	lime	614-617	
18	black shale	617-635	
13	lime	635-648	
14	shale	648-662	

7	lime	662-669
2	lime oil	669-671 good
2	lime oil	671-673 good
2	lime oil	673-675 good
2	lime oil	675-677 ok
6	coal	677-683
15	sand	683-698
48	shale	698-746
2	oil sand	746-748 ok
2	oil sand	748-750 good
2	oil sand	750-752 good
2	oil sand	752-754 good
2	sand	754-756
64	shale	756-820