

### DRILL LOG

Operator License # 33741

API # 15-059-26391-00-00

Operator Energex Kansas

Lease Name Thoele South

Address 2038 S. Princeton St., Ste B

Well # BSP-TS44

Ottawa, KS 66067

Contractor JTC Oil, Inc.

Spud Date 7/02/13 Cement 7/09/13

Contractor License 32834

Location \_\_\_\_\_ of \_\_\_\_\_

T.D. 800 T.D. of Pipe 787

\_\_\_\_\_ feet from \_\_\_\_\_

Surf. Pipe Size 7" Depth 20'

\_\_\_\_\_ feet from \_\_\_\_\_

Kind of Well Production

County Franklin

Thickness	Strata	From	To	Thickness	Strata	From	To
2	Soil	0	2	20	Shale	188	208
5	Clay	2	7	8	Lime	208	216
19	Lime	7	26	5	Red Bed	216	221
3	Shale	26	29	37	Shale	221	258
3	Red Bed	29	32	15	Lime	258	273
16	Shale	32	48	9	Shale	273	282
4	Lime	48	52	29	Lime	282	311
9	Shale	52	61	9	Black Shale	311	320
32	Lime	61	93	24	Lime	320	344
74	Shale	93	167	4	Coal	344	348
21	Lime	167	188	14	Lime	348	362

149	Shale	362	511
5	Lime	511	516
12	Shale	516	528
15	Lime	528	543
6	Shale	543	549
9	Sand	549	558
28	Shale	558	586
3	Coal	586	589
5	Shale	589	594
6	Lime	594	600
13	Shale	600	613
2	Lime	613	615
13	Black Shale	615	628
14	Lime	628	642
12	Shale	642	654
4	Lime	654	658
3	Coal	658	661
7	Lime	661	668
3	Lime Oil	668	671 V-Good
3	Lime Oil	671	674 V-Good
2	Shale	674	676
6	Coal	676	682
12	Sand	682	694
21	Shale	694	715

27	Black Shale	715	742
2	Oil Sand	742	744 Good
2	Oil Sand	744	746 V-Good
2	Oil Sand	746	748 V-Good
2	Oil Sand	748	750 Broken
14	Shale	750	764
2	Coal	764	766
19	Shale	766	785
9	Sand	785	794
6	Shale	794	800