

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. 680'
 T.D. of pipe 575'
 Surface pipe size 7"
 Surface pipe depth 20'
 Well Type Production

API # 15-121-30632-00-00
 Lease Name Renner
 Well # P-13
 Spud Date 9/16/2014
 Cement Date
 Location Sec 16 T 17 R 22
 165 feet from S line
 330 feet from E line
 County Miami

Driller's Log

Thickness	Strata	From	To	
2	soil	0	2	
18	clay	2	20	
15	shale	20	35	
18	lime	35	53	
33	shale	53	86	
7	lime	86	93	
31	shale	93	124	
15	lime	124	139	
8	shale	139	147	
26	lime	147	173	
8	coal	173	181	
21	lime	181	202	
4	coal	202	206	
12	lime	206	218	
138	shale	218	356	
2	oil sand	356	358	broken
2	oil sand	358	360	broken
3	oil sand	360	363	good
3	oil sand	363	366	ok
3	oil sand	366	369	good
2	oil sand	369	371	good
1	lime	371	372	
3	oil sand	372	375	v-good
3	oil sand	375	378	v-good
3	oil sand	378	381	v-good
3	oil sand	381	384	v-good
9	lime	384	393	
53	shale	393	446	
6	lime	446	452	
14	shale	452	466	
3	lime	466	469	
12	black shale	469	481	
5	lime	481	486	
16	shale	486	502	

4	lime	502	506	
15	shale	506	521	
2	oil sand	521	523	good
3	oil sand	523	526	v-good
3	oil sand	526	529	v-good
2	oil sand	529	531	v-good
2	oil sand	531	533	v-good
3	oil sand	533	536	v-good
38	shale	536	574	
24	black shale	574	598	
8	sandy shale	598	606	little oil
19	shale	606	625	
1	lime	625	626	
8	shale	626	634	
9	sandy shale	634	643	
37	shale	643	680	