

## DRILL LOG

Operator License# 34585

API 15-059-25961-00-00

Operator TNT Energy

Lease Name Patterson

Address \_\_\_\_\_

Well # 11

Contractor JTC Oil, Inc.

Spud Date 8/13/12 Cement \_\_\_\_\_

Contractor License 32834

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

T.D. 818 T.D. of Pipe 791.7

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

Surf. Pipe Size 6 5/8 Depth 20ft

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

Kind of Well Oil

County Franklin

Thickness	Strata	From	To	Thickness	Strata	From	To
3	soil	0	3	11	shale	195	206
27	clay/soil	3	30	2	lime	206	208
40	shale	30	70	63	shale	208	271
13	lime	70	83	24	lime	271	295
2	shale	83	85	20	shale	295	315
14	lime	85	99	12	lime	315	327
7	shale	99	106	56	shale	327	383
10	lime	106	116	7	lime	383	390
4	shale	116	120	4	shale	390	394
25	lime	120	145	17	lime	394	411
31	shale	145	176	9	shale	411	420

19	lime	176	195	18	lime	420	438
				3	shale	438	441
				27	lime	441	468
				81	shale	468	549
				6	lime	549	555
				13	shale	555	568
				4	lime	568	572
				27	shale	572	599
				11	lime	599	610
				33	little oil	610	643
				2	little sand	643	645
				2	good sand	645	647
				2	vgood	649	651
				2	vgood	651	653
				2	good	653	655
				2	good	655	657
				2	little sand	657	659
				2		659	661
				80	shale	661	710
				31	Little	710	741
				2	Shale	741	743
				2	Lime	743	745

<hr/>	52	shale	745	797
<hr/>	5	lime	797	802
<hr/>	16	shale	802	818