

DRILL LOG

Operator License# 32834

API # 15-121-31428-00-00

Operator _____ JTC Oil, Inc.

Lease Hayes

Address 35790 Plum Creek Rd. Osaw. KS

Well # P-8

Contractor JTC Oil, Inc.

Spud Date 10/24/18 Cement

Contractor License 32834

Location _____ of _____

T.D. 620 T.D. of Pipe 604

_____ feet from _____

Surf. Pipe Size 7" Depth ft. 20 ft.
w/3sx Cement

_____ feet from _____

Kind of Well Producer

County Miami

Thickness	Strata	From	To	Thickness	Strata	From	To
2	soil	0	2	21	lime	220	241
11	clay	2	13	5	coal	241	246
58	shale	13	71	13	lime	246	259
20	lime	71	91	140	shale	259	399
21	shale	91	112	3	oil sand	399	402 good
6	lime	112	118	3	oil sand	402	405 good
41	shale	118	159	1	lime	405	406
15	lime	159	174	12	shale	406	418
10	shale	174	184	20	lime	418	438
27	lime	184	211	40	shale	438	478
9	coal	211	220	3	lime	478	481

<u>15</u>	<u>shale</u>	<u>481</u>	<u>496</u>
<u>2</u>	<u>lime</u>	<u>496</u>	<u>498</u>
<u>15</u>	<u>black shale</u>	<u>498</u>	<u>513</u>
<u>4</u>	<u>lime</u>	<u>513</u>	<u>517</u>
<u>21</u>	<u>shale</u>	<u>517</u>	<u>538</u>
<u>2</u>	<u>lime</u>	<u>538</u>	<u>540</u>
<u>6</u>	<u>coal</u>	<u>540</u>	<u>546</u>
<u>4</u>	<u>lime</u>	<u>546</u>	<u>550</u>
<u>9</u>	<u>shale</u>	<u>550</u>	<u>559</u>
<u>3</u>	<u>oil sand</u>	<u>559</u>	<u>562 v good</u>
<u>3</u>	<u>oil sand</u>	<u>562</u>	<u>565 v good</u>
<u>55</u>	<u>shale</u>	<u>565</u>	<u>620</u>