

DRILL LOG

Operator License# 32834

API # 15-121-31516-00-00

Operator _____ JTC Oil, Inc.

Lease Wingert

Address 35790 Plum Creek Rd. Osaw. KS

Well # P-15

Contractor JTC Oil, Inc.

Spud Date 9/19/18 Cement 9/26/18

Contractor License 32834

Location _____ of _____

T.D. 720 T.D. of Pipe 710

_____ feet from _____

Surf. Pipe Size 7" Depth ft. 20 ft. w/ 3sx cement _____ feet from _____

Kind of Well Production

County Miami

Thickness	Strata	From	To	Thickness	Strata	From	To
2	soil	0	2	11	shale	204	215
6	clay	2	8	4	lime	215	219
6	lime	8	14	39	shale	219	258
8	shale	14	22	14	lime	258	272
6	lime	22	28	11	shale	272	283
24	shale	28	52	27	lime	283	310
16	lime	52	68	9	coal	310	319
95	shale	68	163	20	lime	319	339
18	lime	163	181	5	coal	339	344
20	shale	181	201	12	lime	344	356
3	lime	201	204	140	shale	356	494

<u>18</u>	<u>lime/shale</u>	<u>494</u>	<u>512</u>
<u>21</u>	<u>lime</u>	<u>512</u>	<u>533</u>
<u>47</u>	<u>shale</u>	<u>533</u>	<u>580</u>
<u>6</u>	<u>lime</u>	<u>580</u>	<u>586</u>
<u>15</u>	<u>shale</u>	<u>586</u>	<u>601</u>
<u>3</u>	<u>lime</u>	<u>601</u>	<u>604</u>
<u>16</u>	<u>blackshale</u>	<u>604</u>	<u>620</u>
<u>6</u>	<u>lime</u>	<u>620</u>	<u>626</u>
<u>17</u>	<u>shale</u>	<u>626</u>	<u>643</u>
<u>2</u>	<u>lime</u>	<u>643</u>	<u>645</u>
<u>20</u>	<u>shale</u>	<u>645</u>	<u>665</u>
<u>1</u>	<u>oil sand</u>	<u>665</u>	<u>666 ok</u>
<u>3</u>	<u>oil sand</u>	<u>666</u>	<u>669 good</u>
<u>3</u>	<u>oil sand</u>	<u>669</u>	<u>672 v good</u>
<u>3</u>	<u>oil sand</u>	<u>672</u>	<u>676</u>
<u>1</u>	<u>lime</u>	<u>676</u>	<u>679 good</u>
<u>2</u>	<u>oil sand</u>	<u>679</u>	<u>681 good</u>
<u>39</u>	<u>shale</u>	<u>681</u>	<u>720</u>