



11 Lewis Drive

Paola, KS 66071

**Oil & Gas Well Drilling  
Water Wells  
Geo-Loop Installation**

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**WELL LOG**  
Ace Energy LLC  
Mullen #12  
API #15-037-22,341  
June 13 - June 14, 2017

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
9	soil & clay	9
7	lime	16
9	shale	25
13	lime	38
93	shale	131
1	coal	132
15	shale	147
2	lime	149
3	shale	152
1	coal	153
9	shale	162
1	coal	163
10	shale	173
2	coal	175
26	shale	201
1	coal	202
7	shale	209
21	oil sand	230 brown, 100% bleeding
30	shale	260
1	coal	261
19	shale	280 TD

Drilled a 12 1/4" hole to 21.5'

Drilled a 6 3/4" hole to 280'

Set 21.5' of 8 5/8" surface casing cemented with 8 sacks of cement.

Set 265' of 4 1/2" with 2 centralizers, 1 float shoe, 1 clamp.