



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 #14  
API #15-037-22,342  
June 12 - June 13, 2017

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
9	soil & clay	9
6	lime	15
8	shale	23
13	lime	36
9	shale	45
2	lime	47
83	shale	130
1	coal	131
14	shale	145
2	lime	147
6	shale	153
1	coal	154
8	shale	162
1	coal	163
9	shale	172
2	coal	174
33	shale	207
2	oil sand	209 brown, 100% bleeding
1	shale	210
23	oil sand	233
57	shale	290
1	coal	291
9	shale	300 TD

Drilled a 12 1/4" hole to 21.6'

Drilled a 6 3/4" hole to 300'

Set 21.6' 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.