



11 Lewis Drive

Paola, KS 66071

Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation

Phone: 913-557-9083
Fax: 913-557-9084

WELL LOG

Kansas Resource Exploration & Development, LLC
Guetterman #KR-9
API # 15-091-23,931
January 14 - January 16, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
13	soil & clay	13
3	shale	16
25	lime	41
8	shale	49
8	lime	57
5	shale	62
1	lime	63
12	shale	75
9	lime	84
19	shale	103
23	lime	126
3	shale	129
50	lime	179
22	shale	201
9	lime	210
16	shale	226
7	lime	233
10	shale	243
12	lime	255
6	shale	261
2	lime	263
28	shale	291
2	lime	293
9	shale	302
13	lime	315
8	shale	323
22	lime	345
4	shale	349
2	lime	351
7	shale	358
3	lime	361 base of the Kansas City
26	shale	387
6	sand	393 grey & green, light gas odor
141	shale	534
6	lime	540
3	shale	543
1	lime	544
4	shale	548
1	coal	549
4	shale	553
8	lime	561

15			
2	shale		
7	lime	576	
5	shale	578	
4	lime	585	
3	shale	590	
25	lime	594	
2	shale	597	
71	lime	622 red	
3	shale	624	
5	broken sand	695	
18	oil sand	698 brown & black, light bleeding	
1	shale	703 brown, fair bleeding	
30	coal	721	
1	shale	722	
5	coal	752	
2	shale	753	
31	grey sand	758	
1	shale	760	
23	coal	791	
1	shale	792	
1	broken sand	815	
3	oil sand	816 brown & lime, good bleeding	
	broken sand	817 brown, good bleeding	
14		820 brown & green, 90% sand, 10% shale	
1	shale	good bleeding	
34	coal	834	
	shale	835	
		869 TD	

Drilled a 9 7/8" hole to 21'

Drilled a 5 5/8" hole to 869'

Set 21' of 7" surface casing cemented with 6 sacks of cement

Set 859' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe & 1 clamp.