



11 Lewis Drive

Paola, KS 66071

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

Phone: 913-557-9083

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WELL LOG

Kansas Resource Exploration & Development, LLC

Knabe M #KR-5

API # 15-091-23,717

December 22 - December 27, 2011

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
8	soil & clay	8
8	sandstone	16
21	lime	37
8	shale	45
9	lime	54
8	shale	62
14	lime	76
29	shale	105
56	lime	161
1	shale	162
13	lime	175
34	shale	209
7	lime	216
19	shale	235
8	lime	243
3	shale	246
11	lime	257
31	shale	288
1	lime	289
10	shale	299
26	lime	325
9	shale	334
22	lime	356
3	shale	359
5	lime	364
5	shale	369
6	lime	375 base of the Kansas City
177	shale	552
5	lime	557
5	shale	562
6	lime	568
17	shale	585
5	lime	590
17	shale	607
2	lime	609
101	shale	710
2	broken oil sand	712 grey & brown, ok bleeding
8	ol sand	720 brown sand, good bleeding
7	sandstone	727 grey, no oil

19	shale	746
3	lime	749
15	shale	764 TD

Drilled a 9 7/8" hole to 20.7'
Drilled a 5 5/8" hole to 764'

Set 20.9' of 7" surface casing cemented with 6 sacks of cement.

Set 754' of 2 7/8" threaded and coupled 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp.