



RECEIVED NOV 05 2012

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

11 Lewis Drive

Paola, KS 66071

Phone: 913-557-9083

Fax: 913-557-9084

WELL LOG

Kansas Resource Exploration & Development, LLC

Guetterman #KR-20

API # 15-091-23,940

October 29 - November 2, 2012

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
16	soil & clay	16
29	lime	45
8	shale	53
9	lime	62
9	shale	71
16	lime	87
18	shale	105
20	lime	125
5	shale	130
49	lime	179
25	shale	204
9	lime	213
18	shale	231
1	lime	232
12	shale	244
17	lime	261
21	shale	282
1	lime	283
11	shale	294
7	lime	301
3	shale	304
13	lime	317
10	shale	327
21	lime	348
4	shale	352
2	lime	354
5	shale	359
7	lime	366 base of the Kansas City
171	shale	537
8	lime	545
12	shale	557
5	lime	562
18	shale	580
1	lime	581
10	shale	591
4	lime	595
32	shale	627 red
4	lime	631
22	shale	653
7	broken sand	660 brown sand & shale, light bleeding

5	silty shale	665
36	shale	701
9	broken sand	710 brown sand & shale ok bleeding making gas
14	shale	724
1	coal	725
16	shale	741
5	silty shale	746
19	shale	765
5	grey sand	770 no oil
49	shale	819
1	broken sand	820 lime & brown sand, light bleeding
1	oil sand	821 brown, good bleeding
4	broken sand	825 brown sand, few thin lime & shale seams ok bleeding
5	silty shale	830
1	shale	831
1	lime	832
6	shale	838
1	coal	839
41	shale	880 TD

Drilled a 9 7/8" hole to 23.5'

Drilled a 5 5/8" hole to 880'

Set 23.5' of 7" surface casing cemented with 6 sacks of cement

Set 870' of 2 7/8" 8 round upset tubing, with 3 centralizers, 1 float shoe, & 1 clamp.