



Fueling American Prosperity™

Well Log

HB Energy, LLC
 Barthol HB I-2
 Sec. 12, T16S, R21E
 1135 FSL, 3545 FEL
 Miami Co., KS
 API: 15-121-30870
 12/04/14

Oil and Gas Well Drilling

3137 Virginia Rd, Wellsville KS 66092

Owners: Clay Hughes
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<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
10	Soil & clay	10	
2	Broken lime	12	
14	Lime	26	
9	Shale	35	
11	Lime	46	
2	Shale	48	
1	Lime	49	
3	Shale	52	
19	Lime	71	
15	Shale	86	
11	Sand	97	Gray
4	Shale	101	
15	Lime	116	
1	Shale	117	
1	Lime	118	
9	Shale	127	
2	Lime	129	
10	Shale	139	
4	Sand	143	Gray
66	Shale	209	
16	Lime	225	
1	Shale	226	
2	Lime	228	
28	Shale	256	
6	Lime	262	
45	Shale	307	
1	Lime	308	
16	Shale	324	
7	Lime	331	
5	Shale	336	
3	Lime	339	
2	Shale	341	

19	Lime	360	
24	Shale	384	
12	Lime	396	
7	Shale	403	
1	Lime	404	
139	Shale	553	
10	Sand	563	Hard & green, makes water, no oil
6	Lime	569	
24	Shale	593	
1	Coal	594	
28	Shale	622	
5	Lime	627	
6	Shale	633	
10	Lime	643	
5	Shale	648	
1	Lime	649	
10	Shale	659	
1	Lime	660	
8	Shale	668	
1	Lime	669	
7	Shale	675	
1	Silty shale	676	
1	Broken sand	677	30% brown sand, 70% shale, light bleed, gassy
2	Broken sand	679	50% brown sand, 50% shale ok bleed, gassy
1	Oil sand	680	Brown sand, good bleed, few thin shale seems, gassy
1	Broken sand	681	30% brown sand, 70% shale, ok bleed, gassy
1	Broken sand	682	70% brown sand, 30% shale, good bleed
8	Oil sand	690	Brown sand, good bleed, gassy, thin shale seems
2	Broken sand	692	50% brown sand, 50% shale ok bleed
2	Broken sand	694	15% brown sand, 85% shale, light bleed
6	Silty shale	700	
71	Shale	771	TD

Drilled an 11" hole to 20'

