



*Fueling American Prosperity™*

## Oil and Gas Well Drilling

3137 Virginia Rd, Wellsville KS 66092

Owners: Clay Hughes

Isaac Burbank

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### Well Log

HB Energy, LLC/T&B Energy, LLC

Schultz HB-7

Sec. 13 Twp. 14 Rng. 20

15-045-22236

Start: 01/16/15

End: 01/19/15

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
7	Soil and Clay	7
19	Sand and Clay	26
69	Shale	95
7	Lime	102
4	Shale	106
18	Lime	124
8	Shale	132
7	Lime	139
7	Shale	146
28	Lime	174
3	Shale	177
1	Lime	178
13	Shale	191
16	Lime	207
65	Shale	272
6	Lime	278
3	Shale	281
14	Lime	295
1	Shale	296
3	Lime	299
1	Shale	300
2	Lime	302
17	Shale	319
7	Lime	326
31	Shale	357
7	Lime	364
3	Shale	367
1	Lime	368
10	Shale	378
7	Lime	385
1	Shale	386

5	Lime	391	
2	Shale	393	
8	Lime	401	
9	Shale	410	
23	Lime	433	
5	Shale	438	
4	Lime	442	
4	Shale	446	
5	Lime	451	Base of Kansas City
41	Shale	492	
16	Sand	508	
72	Shale	580	
15	Red Bed	595	Thin lime seems
4	Silty Shale	599	
1	Broken Sand	600	80% shale, 20% gassy brown sand, light bleed
15	Shale	615	
5	Lime	620	
5	Shale	625	
5	Lime	630	
6	Shale	636	
7	Lime	643	
7	Shale	650	
1	Lime	651	
8	Shale	659	
4	Lime	663	
7	Shale	670	
2	Silty Shale	672	
2	Lime	674	
8	Shale	682	
2	Lime	684	
24	Shale	708	
1	Lime	709	
6	Shale	715	
2	Silty Shale	717	
10	Broken Sand	727	50% light brown sand, 50% green sand, minimal oil show, makes water
1	Silty Shale	728	Few very thin brown sand seems
7	Broken Sand	735	50% brown sand, 50% shale, light oil show, gassy
5	Broken Sand	738	40% brown sand, 60% shale, ok bleed, gassy
3	Broken Sand	741	90% brown sand, 10% shale, ok bleed, gassy
1	Broken Sand	742	40% brown sand, 60% shale, ok bleed
3	Oil Sand	745	Brown sand, gassy, good bleed
1	Broken Sand	746	50% brown sand, 50% shale, good bleed
12	Oil Sand	758	Brown sand, gassy, good bleed, good saturation
4	Shale	762	
4	Lime	766	

21	Shale	787	
4	Silty Shale	791	
47	Shale	838	TD

Drilled an 11" hole to 44'  
 Drilled a 5 5/8" hole to 838'

Set 44' of 7" surface casing, cemented with 10 sacks of cement.

Set 825' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp, 1 float-shoe, and baffle.

Baffle set at 796'.



**CONSOLIDATED**  
Oil Well Services, LLC

1887  
1832

TICKET NUMBER 50808

LOCATION Ottawa KS

FOREMAN \_\_\_\_\_

INVOICE # 803115

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1.19.15	3645	Schwartz # HB-7	SE 13	14	20	D6
CUSTOMER						
MAILING ADDRESS						
CITY						
STATE						
ZIP CODE						

TRUCK #	DRIVER	TRUCK #	DRIVER
712	Fre Mad		
495	Gar Mon		
548	Dam Wka		

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 838' CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 827' DRILL PIPE Baffle in TUBING @ 778' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 29' + Plug  
 DISPLACEMENT 4.63 BB DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.3 BPM

REMARKS: Hold safety meeting. Establish pump rate. Mix Pump 100#  
Gal Flush. Mix + Pump 120 sks 50/50 Por Mix Cement 2 7/8 EUE  
1/4" Flo Seal /sk. Cement to surface. Flush pump + lines  
clean. Displace 2 1/2" Rubber plug to baffle in casing.  
Pressure to 800# PSI. Release pressure to set float  
value. Shut in Casing.

Rig Supplied Water.

Fre Mad.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085.00
5406	25 mi	MILEAGE	495	105.00
5402	827	Casing footage		N/C
5407	Minimum	Ten Miles.	548	368.00
1124	2831	120 SKS	50/50 Por Mix Cement	1380.00
118B	302*	Premium Gel		66.44
1107	30*	Flo Seal		74.10
		Material	1520.51	
		Less 30%	- 456.15	
		Total		1064.35
4402	1	2 1/2" Rubber Plug		29.50
			3218.87	
			7.15%	
			SALES TAX	78.21
			ESTIMATED TOTAL	2730.09

Ravin 3737

ENTERED JAN 23 2015

AUTHORIZATION Chay TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form