



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  
HB Energy LLC  
Schultz # HB-5  
API # 15-045-22,222  
June 18 - June 19, 2014

Thickness of Strata

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
7	soil & clay	7
9	sandstone	16
86	shale	102
4	lime	106
7	sandstone	113
2	shale	115
19	lime	134
8	shale	142
8	lime	150
15	shale	165
15	lime	180
2	shale	182
7	lime	189
14	shale	203
20	lime	223
60	shale	283
8	lime	291
1	shale	292
18	lime	310
16	shale	326
12	lime	338
30	shale	368
7	lime	375
3	shale	378
1	lime	379
9	shale	388
11	lime	399
4	shale	403
10	lime	413
11	shale	424
19	lime	443 makes little water
5	shale	448
4	lime	452
4	shale	456
7	lime	463 base of the Kansas City
10	shale	473
3	silty shale	476 green sandy shale
96	shale	572

7	silty shale	579 green sandy shale
2	broken sand	581 70% shale 30% green hard sand gas odor
17	shale	598
8	red shale	606
6	sand	612 brown & grey sand ok oil show gassy
1	broken sand	613 brown sand & shale, light bleeding
13	shale	626
4	lime	630
4	shale	634
5	lime	639
9	shale	648
4	lime	652
6	shale	658
5	sand	663 green
8	shale	671
3	lime	674
8	shale	682
10	lime	692 soft
20	shale	712
5	lime	717
2	shale	719
1	silty shale	720
1	broken sand	721 10% sand 90% shale, no bleeding
8	silty shale	729
4	broken sand	733 50% light brown sand 50% shale no show
9	broken sand	742 90% sand 10% shale light bleeding
5	sand	747 light brown sand
1	broken sand	748 90% brown sand 10% shale good bleeding
10	oil sand	758 brown sand good bleeding (gassy)
4	broken sand	762 90% brown sand 10% laminated shale sear
11	oil sand	773 brown sand good bleeding
1	shale	774
1	lime & shells	775
5	shale	780
1	lime	781
70	shale	851 TD

Drilled a 9 7/8" hole to 48.1'

Drilled a 5 5/8" hole to 851'

Set 48.1' of 7" surface casing cemented with 10 sacks of cement.

Set 836' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp, and 1 baffle.  
Baffle set 26' off bottom of tally.



**CONSOLIDATED**  
Oil Well Services, LLC

269028

TICKET NUMBER 47303

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

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
6/19/14	3645	Scholtz # HB-5	SE 13	14	20	DG

CUSTOMER HB Energy  
MAILING ADDRESS 3137 Virginia Rd  
CITY Wellsville STATE KS ZIP CODE 666092

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Cashen	✓ Safety	Maerting
6666	KeiCar	✓	
558	Mat Coc	✓	
675	KeiDot	✓	

JOB TYPE log string HOLE SIZE 5 5/8" HOLE DEPTH 851' CASING SIZE & WEIGHT 2 7/8" EUE  
CASING DEPTH 836' DRILL PIPE \_\_\_\_\_ TUBING baffle - 809' OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
DISPLACEMENT 4.68 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: held safety, making, making established circulation, mixed + pumped 200# Premium Gel followed by 10 bbls fresh water, mixed + pumped 118 sks 50/50 Pozmix cement w/ 2% gel + 1/4 # Flo Seal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.68 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

*[Handwritten signature]*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		
5406	25 mi	MILEAGE		1085.00
5408	F361	casing footage		105.00
5407	uninimum	ton mileage		368.00
5502c	2 hrs	80 Vac		200.00
1124	118 sks	50/50 Pozmix cement	1357.00	
1118B	398 #	Premium Gel	87.56	
1107	30 #	Flo Seal	74.10	
		materials sub total	1578.66	
		-30%e	455.60	
		sub total		1063.06
4402	1	2 1/2" rubber plug		29.50
			3416.86	
		7.15%	SALES TAX	78.12
			ESTIMATED TOTAL	2928.68

Ravin 3737

AUTHORIZATION *[Signature]*

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 for