



**EVANS
ENERGY
DEVELOPMENT
INC.**

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-6

API # 15-046-22,223

June 17 - June 18, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
1	soil & clay	1
5	soft sandstone	6 does not make water
23	sandstone	29 does not make water
118	shale	147
5	lime	152
5	sandstone	157 grey, no water
2	shale	159
20	lime	179
9	shale	188
6	lime	194
7	shale	201
28	lime	229
18	shale	247
15	lime	262
65	shale	327
6	lime	333
4	shale	337
17	lime	354
16	shale	370
10	lime	380
30	shale	410
14	lime	424
7	shale	431
12	lime	443
3	shale	446
9	lime	455
10	shale	465
21	lime	486 makes water
4	shale	490
5	lime	495
3	shale	498
6	lime	504 base of the Kansas City
109	shale	613
4	silty shale	617 green very thin sand laminations
23	shale	640
10	red bed	650
6	sand	656 green & light brown minimal oil show
13	shale	669
7	lime	676

10	shale	686
1	coal	687
5	shale	692
7	lime	699
16	shale	715
3	lime	718
5	shale	723
2	sand	725 green & white, no show
5	shale	730
7	lime	737 60% lime laminated with shale seams
22	shale	759
2	lime	761
9	silty shale	770 green & white, no show
1	broken sand	771 10% brown sand 90% shale, light odor
2	silty shale	773
3	broken sand	776
3	limey sand	779 grey, no odor
4	sand	783 light brown gassy
6	broken sand	789 30% brown sand 70% shale, oil odor no bleeding
3	sand	792 light brown
4	broken sand	796 60% brown sand 40% shale ok bleeding
12	oil sand	808 brown sand good bleeding good saturation (gassy)
6	oil sand	614 brown sand good bleeding (gassy) very thin shale laminations
2	oil sand	616 brown sand good bleeding
1	broken sand	817 50% brown sand 50% shale ok bleeding
9	shale	826
1	lime	827
53	shale	880 TD

Drilled a 9 7/8" hole to 47.6'

Drilled a 5 5/8" hole to 880'

Set 47.6' of 7" surface casing cemented with 10 sacks of cement.

Set 860' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp, and 1 baffle.
Baffle set 10' off bottom of tally.

	Core Times	
	<u>Minutes</u>	<u>Seconds</u>
792		33
793		35
794		32
795		32
796		38
797		43
798		39
799		37
800		43
801		42
802		41
803		36
804		38
805		37
806		41
807		44
808		41
809		41
810		43
811		31



CONSOLIDATED
Oil Well Services, LLC

268932

TICKET NUMBER 47339

LOCATION Ottawa KS

FOREMAN Fred Mader

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8678

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-18-14	3645	Schultze # 436	SE 13	14	20	DC

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
H-B Energy LLC Mailing Address 3236 Virginia Rd City: Wellsville, KS 66092	712	Fred Mader		
	495	Har Bec		
	369	Mik Hba		
	558	Max Cas		

JOB TYPE Log string HOLE SIZE 5 1/8 HOLE DEPTH 880 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 660 DRILL PIPE Baffle TUBING QASD OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 10' + Plug
 DISPLACEMENT 4.94 BB DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Had crew safety meeting. Establish pump rate. Mix Pump 100' Gel Flush. Mix + Pump 110 Sks 50/50 Per Mix Cement 2% Gel 14" Flo Seal/sk. Cement to surface. Flush pump + lines clean. Displace 2 1/2" Rubber plug to casing @ Baffle. Pressure to 600 PSI. Release pressure to set float valve.

Evans Energy, Inc - Mitchell

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1068 ⁰⁰
5406	25 mi	MILEAGE	495	105 ⁰⁰
5402	860'	Casing footage		N/C
5407	Minimum	Ten Miles	558	368 ⁰⁰
5502C	2 hrs	80 BBL Vac Truck	369	200 ⁰⁰
1124	110 Sks	50/50 Per Mix Cement	1265 ⁰⁰	
1118B	285 ⁴	Premium Gel	627 ⁰⁰	
1107	28 ⁴	Flo Seal	69 ¹⁶	
		Material	1396 ⁸⁶	
		Less 30%	-419 ⁰⁵	
		Total	0	977 ⁸⁰
4402	1	2 1/2" Rubber Plug		29 ⁵⁰
			3280.34	
			7.375%	
		SALES TAX		72.02
		ESTIMATED TOTAL		2837.32

Revin 3737

AUTHORIZATION Clay 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.