

Miami County, KS  
Well: Barkis A-13  
Lease Owner: Altavista Energy Inc.

Town Oilfield Service, Inc.  
(913) 837-8400

Commenced Spudding:  
4-15-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 10	Soil - Clay	10
16	Lime	26
70	Shale	96
19	Lime	115
13	Shale	128
10	Lime	138
12	Sandy Shale	150
20	Shale	170
3	Lime	173
39	Shale	212
11	Lime	223
15	Shale	238
25	Lime	263
7	Shale	270
21	Lime	291
4	Shale	295
2	Lime	297
4	Shale	301
10	Lime	311
34	Shale	345
11	Sand	356
38	Sandy Shale	394
110	Shale	504
4	Lime	508
3	Shale	511
2	Lime	513
8	Shale	521
7	Lime	528
20	Shale	548
4	Lime	552
8	Shale	560
4	Lime	564
7	Shale	571
5	Lime	576
1	Shale	577
1	Lime	578
70	Shale	648
19	Core	667
21	Sandy Shale	688
52	Shale	740 TD



# Short Cuts

## TANK CAPACITY

BBLs. (42 gal.) equals  $D^2 \times .14 \times h$

D equals diameter in feet.

h equals height in feet.

## BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals  $BPH \times PSI \times .0004$

BPH - barrels per hour

PSI - pounds square inch

## TO FIGURE PUMP DRIVES

\* D - Diameter of Pump Sheave

\* d - Diameter of Engine Sheave

SPM - Strokes per minute

RPM - Engine Speed

R - Gear Box Ratio

\*C - Shaft Center Distance

D -  $RPM \times d$  over  $SPM \times R$

d -  $SPM \times R \times D$  over RPM

SPM -  $RPM \times D$  over  $R \times d$

R -  $RPM \times D$  over  $SPM \times d$

BELT LENGTH -  $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

\* Need these to figure belt length

TO FIGURE AMPS:  $\frac{WATTS}{VOLTS} = AMPS$

746 WATTS equal 1 HP

# Log Book

Well No. A-13

Farm Barkis

KS Miami  
(State) (County)

17 16 24  
(Section) (Township) (Range)

For Altavista Energy inc  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East  
Louisburg, KS 66053  
913-710-5400



Thickness of Strata	Formation	Total Depth	Remarks
0-10	soil-clay	10	
16	Lime	26	
70	shale	96	
19	Lime	115	
13	shale	128	
10	Lime	138	
12	sandy shale	150	
20	shale	170	
3	Lime	173	
39	shale	212	
11	Lime	223	
15	shale	238	
25	Lime	263	
7	shale	270	
21	Lime	291	
4	shale	295	
2	Lime	297	
4	shale	301	
10	Lime	311	Heitha
34	shale	345	
11	sand	356	gas odor - slight oil show
38	sandy shale	394	
110	shale	504	
4	Lime	508	
3	shale	511	
2	Lime	513	
8	shale	521	







REMIT TO  
 Consolidated Oil Well Services, LLC  
 Dept:970  
 P.O.Box 4346  
 Houston, TX 77210-4346

MAIN OFFICE  
 P.O.Box884  
 Chanute, KS 66720  
 620/431-9210, 1-800/467-8676  
 Fax 620/431-0012

Invoice Invoice# 804038

Invoice Date: 04/21/15 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC  
 4595 K-33 HWY, PO BOX 128  
 WELLSVILLE KS 66092  
 USA  
 7858834057

BARKIS #A-13

Part No	Description	Quantity	Unit Price	Discount(%)	Total
5401	Cement Pumper	1.000	1,085.0000	30.000	759.50
5406	Mileage Charge	30.000	4.2000	30.000	88.20
5402	Casing Footage	711.000	0.0000	0.000	0.00
5407	Min. Bulk Delivery Charge	1.000	368.0000	30.000	257.60
5502C	80 Vacuum Truck Cement	1.500	100.0000	30.000	105.00
1124	Poz Cement Mix	90.000	11.5000	30.000	724.50
1118B	Premium Gel / Bentonite	251.000	0.2200	30.000	38.65
1111	Sodium Chloride (Granulated Salt)	181.000	0.3900	30.000	49.41
1110A	Kol Seal (50# BAG)	450.000	0.4600	30.000	144.90
4402	2 1/2 Rubber Plug	1.000	29.5000	30.000	20.65

Subtotal 3,126.31  
 Discounted Amount 937.89  
 SubTotal After Discount 2,188.42

Amount Due 3,233.20 If paid after 05/21/15

Tax: 74.82  
 Total: 2,263.23





**CONSOLIDATED**  
Oil Well Services, LLC

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

Invoice # 804038 <sup>2702</sup>/<sub>2632</sub>

TICKET NUMBER 50960  
LOCATION Ottawa KS  
FOREMAN Fred Mader

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-16-15	3244	Barkis # A-13	NW 17	16	22	ME
CUSTOMER <u>Altavista Energy</u>						
MAILING ADDRESS <u>P.O. Box 128</u>						
CITY <u>Wellsville</u>		STATE <u>KS</u>	ZIP CODE <u>66092</u>			
TRUCK #		DRIVER		TRUCK #		DRIVER
712		Fre Mad				
495		Har Bos				
675		Kai Det				
548		Arl McD				

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 740' CASING SIZE & WEIGHT 278 EUE  
CASING DEPTH 741' DRILL PIPE Baffle in TUBING @ 680' OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 31' + Plug  
DISPLACEMENT 3.95B DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.13 PM

REMARKS: Hold Safety Meeting. Establish pump rate. Mix Pump 100#  
Gal Flush. Mix + Pump 90 SKS 50/50 Poz Mix Cement 2% Gel  
5% Salt 5# Kol Seal/sk. Cement to Surface. Flush pump + lines  
clean. Displace 2 1/2" Rubber Plug to Baffle. Pressure to 800#  
PSI. Release pressure to Set Float Valve. Shut in Casing.

TOS Drilling.

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5407	1	PUMP CHARGE	495	1085 <sup>00</sup>
5406	30 mi	MILEAGE	495	126 <sup>00</sup>
5402	711	Casing footage	N/K	
5407	Minimum	Tax Miles	548	368 <sup>00</sup>
5502C	1/2 hr	80 BBL Vac Truck	675	150 <sup>00</sup>
Sub Total				1729 <sup>00</sup>
Less 30%				-518 <sup>20</sup>
				1210 <sup>30</sup>
1124	90 SKS	50/50 Poz Mix Cement	1035 <sup>00</sup>	
1118B	25#	Premium Gel	55 <sup>32</sup>	
1111	181#	Granulated Salt	70 <sup>59</sup>	
1110A	450#	Kol Seal	207 <sup>00</sup>	
4402	1	2 1/2" Rubber Plug	295 <sup>00</sup>	
Material				1397 <sup>31</sup>
Less 30%				-419 <sup>19</sup>
				978 <sup>12</sup>
			7.65%	SALES TAX 74 <sup>82</sup>
				ESTIMATED TOTAL 2263 <sup>39</sup>

Revin 3737

AUTHORIZATION Bryan [Signature] TITLE \_\_\_\_\_ DATE 3.23.20

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.