

Miami County, KS  
 Well: Barkis AI-13  
 Lease Owner: Altavista Energy

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

Commenced Spudding:  
 6-22-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 6	Soil - Clay	6
11	Lime	17
71	Shale	88
20	Lime	108
13	Shale	121
10	Lime	131
31	Shale	162
4	Lime	166
39	Shale	205
10	Lime	215
15	Shale	230
25	Lime	255
9	Shale	264
21	Lime	285
3	Shale	288
3	Lime	291
3	Shale	294
9	Lime	303
14	Shale	317
5	Sand	322
19	Lime	341
4	Shale	345
15	Lime	360
135	Shale	495
4	Lime	499
2	Shale	501
6	Lime	507
5	Shale	512
7	Lime	519
19	Shale	538
4	Lime	542
8	Shale	550
3	Lime	553
7	Shale	560
1	Lime	561
2	Shale	563
6	Lime	569
72	Shale	641
8	Sand	649
4	Sand	653



# 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. AI-13

Farm Barkis

KS  
(State)

Miami  
(County)

17  
(Section)

16  
(Township)

24  
(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
0-6	soil-clay	6	
11	Lime	17	
71	Shale	88	
20	Lime	108	
13	Shale	121	
10	Lime	131	
31	Shale	162	
4	Lime	166	
39	Shale	205	
10	Lime	215	
15	Shale	230	
25	Lime	255	
9	Shale	264	
21	Lime	285	
3	Shale	288	
3	Lime	291	
3	Shale	294	
9	Lime	303	Hertha
14	Shale	317	
5	sand	322	solid-good show
19	Shale	341	
4	sand	345	Heavy Oil
15	sand	360	no Oil
135	Shale	495	
4	Lime	499	
2	Shale	501	
6	Lime	507	





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# 804666

Invoice Date: 06/28/15

Terms: Net 30

Page 1

ALTAVISTA ENERGY INC

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

Barkis #AI-13

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	46.000	810.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	46.000	115.83
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	46.000	356.40
WE0853	80 BBL Vacuum Truck (Cement Services)	1.500	100.0000	46.000	81.00
CC5840	Poz-Blend I A (50:50)	82.000	13.5000	46.000	597.78
CC5965	Bentonite	238.000	0.3000	46.000	38.56
CC5326	Sodium Chloride, Salt	152.000	0.7500	46.000	61.56
CC6077	Kolseal	410.000	0.5000	46.000	110.70
CC6128	Mud Flush - C	0.500	50.0000	46.000	13.50
CP8175	2 3/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 4,091.90

Discounted Amount 1,882.27

SubTotal After Discount 2,209.63

Amount Due 4,211.81 If paid after 07/28/15

Tax: 64.75

Total: 2,274.38





**CONSOLIDATED**  
Oil Well Services, LLC

3258

3178

Invoice # 84666

TICKET NUMBER 49677

LOCATION Ottawa KS

FOREMAN Fred Maden

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
6-23-15	3244	Barkle # A1.13	SE 17	16	22	MI
CUSTOMER			TRUCK #			
Mailing Address			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
Wellsville			DRIVER			
KS			TRUCK #			
66092			DRIVER			

JOB TYPE Longstring HOLE SIZE 5 7/8" HOLE DEPTH 720 CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 714 DRILL PIPE Baffle in TUBING @ 604' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 30' + Plug  
 DISPLACEMENT 4 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 BPM

REMARKS: Hold safety meeting. Establish pump rate. Mix 1/2 Gal NE-100 Polymer Flush. Circulate to condition hole. Mix + Pump 100# Gal Flush. Mix + Pump 82 sks Poz Blend I A Cement 2% Gal 5% Salt 5# Kol 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 valve. Shut in casing.

TOS Drilling - Wesley

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	30 mi.	MILEAGE	214.50	
CE0711	Minimum	Ten Miles Delivery	660.00	
WE0853	1/2 hr	50 BBL Vac Truck	150.00	
		Sub Total	2524.50	
		Less 46%	-1161.27	1363.23
CC5840	82 sks	Poz Blend Cement I A	1107.00	
CC5965	238#	Bentonite Gel	71.40	
CC5326	152#	Salt - Sodium Chloride	114.00	
CC6011	410#	Kol Seal	205.00	
CC6128	1/2 Gal	Mud Flush G	25.00	
CP8175	1	2 1/2" Rubber Plug	45.00	
		Sub Total	1567.40	
		Less 46%	-721.00	846.40
		7.65% SALES TAX	64.75	
		ESTIMATED TOTAL	2274.35	

AUTHORIZATION Byron Silly TITLE \_\_\_\_\_ DATE (4211.81)

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.