

Miami County, KS
 Well: Barkis A-10
 Lease Owner: Altavista Energy

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

Commenced Spudding:
 4-9-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 6	Soil - Clay	6
13	Lime	19
15	Shale	34
7	Sand	41
2	Shale	43
13	Lime	56
67	Shale	123
22	Lime	145
13	Shale	158
10	Lime	168
12	Sandy Shale	180
20	Shale	200
3	Lime	203
40	Shale	243
10	Lime	253
15	Shale	268
25	Lime	293
8	Shale	301
21	Lime	322
3	Shale	325
2	Lime	327
6	Shale	333
8	Lime	341
31	Shale	372
1	Sandy Shale	373
1	Sand	374
19	Core #1	393
37	Sandy Shale	430
118	Shale	548
8	Lime	556
17	Shale	573
3	Lime	576
7	Shale	583
5	Lime	588
6	Shale	594
1	Lime	595
1	Shale	596
8	Lime	604
21	Shale	625
2	Lime	627

Core

Core #1		
		374
2.5	Sand & Sandy Shale	376.5
1	Lime	377.5
3.5	Gas Sand	381
4	Sand	385
5	Sand & Sandy Shale	390
3	Sandy Shale	393
Core #2		
		676
1	Sand	677
2	Sand & Shale	679
1	Laminated Sand	680
3	Solid Sand	683
13	Sandy Shale	696

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times h \times 14.14$

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-10

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

Barkis Farm: Miami County

KS State; Well No. A-10

Elevation 1086

Commenced Spuding 4-9, 20 15

Finished Drilling 4-13, 20 15

Driller's Name Wesley Dollard

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Ryan Ward

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name TOS

17 16 24

(Section) (Township) (Range)

Distance from S line, 5115 ft.

Distance from E line, 4785 ft.

4 sacks 2 cores

12 hrs

5 5/8 borehole

2 7/8 casing

CASING AND TUBING

RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

7 1/4" Set 23 6 1/4" Pulled _____

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
673.	45	Seat nipple			
704.	90	Baffle			
736.	40	Float			
760	TD			2 7/8	

Thickness of Strata	Formation	Total Depth	Remarks
0-6	soil - clay	6	
13	Lime	19	
15	Shale	34	red bed
7	sand	41	grey - no oil
2	shale	43	
13	Lime	56	
67	Shale	123	
22	Lime	145	
13	Shale	158	
10	Lime	168	
12	sandy shale	180	
20	shale	200	
3	Lime	203	
40	Shale	243	
10	Lime	253	
15	shale	268	
25	Lime	293	
8	Shale	301	
21	Lime	322	
3	shale	325	
2	Lime	327	
6	shale	333	
8	Lime	341	Hertha
31	shale	372	
1	sandy shale	373	
1	sand	374	odor
19	core #1	393	page 8

393

Thickness of Strata	Formation	Total Depth	Remarks
37	sandy shale	430	
118	shale	548	
8	lime	556	
17	shale	573	
3	lime	576	
7	shale	583	
5	lime	588	
6	shale	594	
1	lime	595	
1	shale	596	
8	lime	604	
21	shale	625	
2	lime	627	
48	shale	675	
1	sand	676	solid oil - perf
20	core #2	696	page 8
7	sandy shale	703	
57	shale	760	TD

Thickness of Strata	Formation	Total Depth.	Remarks
Core #1			
		374	
2.5	sand & sandy shale	376.5	laminated gas sand
1	Lime	377.5	
3.5	gas sand	381	brown
4	sand	385	solid oil - Heavy
5	sand & sandy shale	390	laminated - no oil
3	sandy shale	393	
Core #2			
		676	
1	sand	677	solid oil
2	sand & shale	679	some oil - not much Perf
1	laminated sand	680	good show
3	solid sand	683	good show
13	sandy shale	696	



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# 804013

Invoice Date: 04/17/15 Terms: Net 30 Page 1

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

BARKIS #A-10

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	736.000	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	94.000	11.5000	30.000	756.70
1118B	Premium Gel / Bentonite	258.000	0.2200	30.000	39.73
1111	Sodium Chloride (Granulated Salt)	190.000	0.3742	30.000	49.77
1110A	Kol Seal (50# BAG)	470.000	0.4600	30.000	151.34
4402	2 1/2 Rubber Plug	1.000	29.5000	30.000	20.65

Subtotal 3,183.56
 Discounted Amount 955.07
 SubTotal After Discount 2,228.49

Amount Due 3,294.83 If paid after 05/17/15

Tax: 77.89
 Total: 2,306.38



CONSOLIDATED
Oil Well Services, LLC

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

2678
Invoice # 804013 *2610*
FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 50936

LOCATION Ottawa KS

FOREMAN Fred Mader

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-13-15	3244	Barkis # A-10	NW 17	16	24	Ml
CUSTOMER <u>Attavista Energy</u>			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS <u>P.O. Box 128</u>			712 / Fred Mader			
CITY STATE ZIP CODE <u>Wellsville KS 66092</u>			495 / Har Bee			
			675 / Ki Det			
			548 / Arl McD			

JOB TYPE hangstring HOLE SIZE 5 7/8 HOLE DEPTH 760' CASING SIZE & WEIGHT _____
 CASING DEPTH 736 DRILL PIPE Baffle tubing @ 704 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32' x Plug
 DISPLACEMENT 4.09 B DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold safety meeting. Establish pump rate. Mix & Pump 100# Gel Flush. Mix & Pump 94 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
5401	1	PUMP CHARGE	495	1085.00
5406	30 mi	MILEAGE	495	126.00
5402	736	Casing footage	N/A	
5407	Minimum	Ten Miles	548	368.00
5502C	1 1/2 hr	80 BBL Vac Truck	675	150.00
		Sub Total		1729.00
		less 30%		- 518.70
				1210.30
1124	94 sks	50/50 Poz Mix Cement	1081.00	
1118 B	258#	Premium Gel	562.00	
1111	190#	Granulated Salt	71.00	
1110 A	470#	Kol Seal	216.30	
		Material	1425.00	
		less 30%		- 427.50
		Total		997.50
4402	1	2 1/2" Rubber Plug	29.50	20.65
		Less 30%		
			7.65%	SALES TAX 77.89
				ESTIMATED TOTAL 2306.88

Completed

Revin 3737

AUTHORIZATION Bryan Miller

TITLE _____

DATE 3/29/83

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.