

Miami County, KS
 Well: Barkis A-19
 Lease Owner: Altavista Energy

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

Commenced Spudding:
 4-27-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0-3	Soil - Clay	3
8	Lime	11
16	Shale	27
6	Lime	33
4	Shale	37
13	Lime	50
70	Shale	120
21	Lime	141
12	Shale	153
10	Lime	163
24	Shale	187
1	Lime	188
6	Shale	194
4	Lime	198
40	Shale	238
10	Lime	248
16	Shale	264
25	Lime	289
9	Shale	298
16	Lime	314
4	Shale	318
3	Lime	321
4	Shale	325
9	Lime	334
16	Shale	350
5	Sand	355
15	Shale	370
7	Sand	377
20	Sandy Shale	397
138	Shale	535
3	Lime	538
3	Shale	541
7	Lime	548
19	Shale	567
4	Lime	571
8	Shale	579
5	Lime	584
9	Shale	593
5	Lime	598
72	Shale	670

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 x PSI x .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-19

Farm Barkis

KS Missi
(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
0-3	soil-clay	3	
8	Lime	11	
16	Shale	27	
6	sand	33	red bed
4	shale	37	no oil
13	Lime	50	
70	shale	120	
21	Lime	141	
12	shale	153	
10	Lime	163	
24	shale	187	
1	Lime	188	
6	shale	194	
4	Lime	198	
40	shale	238	
10	Lime	248	
16	shale	264	
25	Lime	289	
9	shale	298	
16	Lime	314	
4	shale	318	
3	Lime	321	
4	shale	325	
9	Lime	334	Heather
16	shale	350	
5	sand	355	odor
15	shale	370	



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# 804108

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

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

BARKIS A-19

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	761.000	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	92.000	11.5000	30.000	740.60
1118B	Premium Gel / Bentonite	255.000	0.2200	30.000	39.27
1111	Sodium Chloride (Granulated Salt)	186.000	0.3900	30.000	50.78
1110A	Kol Seal (50# BAG)	460.000	0.4600	30.000	148.12
4402	2 1/2 Rubber Plug	1.000	29.5000	30.000	20.65

Subtotal 3,156.74
 Discounted Amount 947.02
 SubTotal After Discount 2,209.72

Amount Due 3,265.96 If paid after 05/30/15

Tax: 76.45
 Total: 2,286.17



CONSOLIDATED
Oil Well Services, LLC

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

2764
2694
INVOICE # 804103
FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 50963
LOCATION OxNawa KS
FOREMAN Fred Maden

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-28-15	3244	Barkis A-19	NW 17	16	22	M1
CUSTOMER Alta Vista Energy						
MAILING ADDRESS P.O. Box 128						
CITY Wellsville		STATE KS	ZIP CODE 66092			
			TRUCK #	DRIVER	TRUCK #	DRIVER
			712	Fred Maden		
			495	Harold		
			675	Ala Maden		
			548	Art McB		

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 780 CASING SIZE & WEIGHT 2 1/8 EUE
 CASING DEPTH 761 DRILL PIPE Baffle in TUBING @ 729 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING 32' + Plug
 DISPLACEMENT 4.24 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.3 PM

REMARKS: Hold Safety meeting Establish pump rate. Mix & Pump 100# Gel
 Flush. Mix & Pump @ 92 sks 50/50 Poz Mix Cement 2% Gel 5%
 Salt 5# Kal 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.

TDS Drilling. Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1055.00
5406	30 mi	MILEAGE	495	126.00
5402	761	Casing Footage	N/C	
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	92 sks	50/50 Poz Mix Cement	105.00	9660.00
1115B	255 #	Premium Gel	56.10	14305.50
1111	186 #	Granulated Salt	72.54	13492.44
1110A	460 #	Kal Seal	211.60	97336.00
4402	1	2 1/2" Rubber Plug	29.50	29.50
		Material		14277.44
		Less 30%		-4283.23
				9994.21
			7.65%	SALES TAX 76.45
				ESTIMATED TOTAL 22868.66

AUTHORIZATION Benjar Mills TITLE _____ DATE 3/26/15

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.