

Miami County, KS
 Well: Barkis A-15
 Lease Owner: Altavista Energy

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

Commenced Spudding:
 4-22-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 1	Soil - Clay	1
4	Lime	5
2	Clay	7
71	Shale	78
21	Lime	99
13	Shale	112
10	Lime	122
31	Shale	153
4	Lime	157
39	Shale	196
12	Lime	208
14	Shale	222
25	Lime	247
7	Shale	254
21	Lime	275
4	Shale	275
2	Lime	279
5	Shale	281
8	Lime	286
36	Shale	330
2	Limey Sand	332
4	Sand	336
20	Sand	356
10	Sandy Shale	366
123	Shale	489
4	Lime	493
2	Shale	495
3	Lime	498
8	Shale	506
7	Lime	513
19	Shale	532
4	Lime	536
9	Shale	545
5	Lime	550
7	Shale	557
7	Lime	564
69	Shale	633
20	Core	653
11	Sandy Shale	664
56	Shale	720 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-15

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

FILED 53-12

Balkis Farm: Miami County
KS State; Well No. A-15
Elevation 1037
Commenced Spuding 4-22 20 15
Finished Drilling 4-23 20 15
Driller's Name Wesley Dollard
Driller's Name _____
Driller's Name _____
Tool Dresser's Name Ryan Ward
Tool Dresser's Name Cole Holcom
Tool Dresser's Name _____
Contractor's Name TOS
17 16 24

(Section) (Township) (Range)
Distance from 5 line, 3465 ft.
Distance from E line, 5115 ft.
4 sacks 2 7/8 casing
1 core
9 hrs
5 5/8 borehole

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
8" Set _____ 8" Pulled _____
7 1/2" Set 23 6 1/2" Pulled _____
4" Set _____ 4" Pulled _____
2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
635.	95	Seat	ripple		
667.	45	Baffle		2 7/8	
698.	95	Floater			
720	TD				

Thickness of Strata	Formation	Total Depth	Remarks
0-1	soil - clay	1	
4	Lime	5	
2	clay	7	
71	shale	78	
21	Lime	99	
13	shale	112	
10	Lime	122	
31	shale	153	
4	Lime	157	
39	shale	196	
12	Lime	208	
14	shale	222	
25	Lime	247	
7	shale	254	
21	Lime	275	
4	shale	279	
2	Lime	281	
5	shale	286	
8	Lime	294	Heathy
36	shale	330	
2	limy sand	332	
4	sand	336	broken oil - slight show
20	sand	356	no oil
10	sandy shale	366	
123	shale	489	
4	Lime	493	
2	shale	495	

495

Thickness of Strata	Formation	Total Depth	Remarks
3	Lime	498	
8	Shale	506	
7	Lime	513	
19	Shale	532	
4	Lime	536	
9	Shale	545	
5	Lime	550	
7	Shale	557	
7	Lime	564	
69	Shale	633	
20	Coal	653	
11	sandy shale	664	page 6
56	Shale	720	TD

Thickness of Strata	Formation	Total Depth	Remarks
	Core		
		633	
3.5	shale	636.5	
2	sand	638.5	solid oil - perf
3	sand & sandy shale	641.5	no Oil
4	sand & sandy shale	645.5	laminated oil - perf
7.5	sandy shale	653	no Oil



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#

804061

Invoice Date: 04/24/15

Terms: Net 30

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

BARKIS #A-15

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	698.000	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	0.3900	30.000	51.87
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 3,186.56
 Discounted Amount 955.97
 SubTotal After Discount 2,230.59

Amount Due 3,298.06 If paid after 05/24/15

Tax: 78.05
 Total: 2,308.64



CONSOLIDATED
Oil Well Services, LLC

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

Invoice # 884061 2722 / 2652

TICKET NUMBER 50961
LOCATION Ottawa KS
FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4/23/17	3244	Barkis # A-15	SW 11	22	16	MI
CUSTOMER			TRUCK #			
Alta Vista Energy			712 / FreMad			
MAILING ADDRESS			495 / Har Bee			
P.O. Box 128			675 / Ki Det			
CITY	STATE	ZIP CODE	558 / Ar/McD			
Wellsville	KS	66067				

JOB TYPE Longstring HOLE SIZE _____ HOLE DEPTH 720 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 698 DRILL PIPE Baffle Intubing @ 667' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 3' + Plug
 DISPLACEMENT 3.88' 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 in
 casing. 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	1095 ⁰⁰
5406	30 mi	MILEAGE	495	126 ⁰⁰
5402	698	Casing Footage	N/C	
5407	Minimum	Ton Miles	558	368 ⁰⁰
5502C	1 1/2 hr	80 BBL Vac Truck	675	150 ⁰⁰
		Sub Total		1729 ⁰⁰
		Less 30%		-518 ²⁰
				1210 ³⁰
95 1124	94 sks	50/50 Poz Mix Cement	1081 ⁰⁰	
1115B	258 #	Premium Gel	567 ⁶⁰	
1111	190 #	Granulated Salt	74 ¹⁰	
1110A	470 #	Kol Seal	216 ³⁰	
4402	1	2 1/2" Rubber Plug	29 ⁵⁰	
		Material	1457 ⁵⁶	
		Less 30%	-437 ²⁷	
		Total		1020 ²⁹
		7.65%	SALES TAX	78 ⁰⁵
			ESTIMATED TOTAL	2308 ⁶⁴

Completed

Revin 3737 AUTHORIZATION Bryan Miller TITLE _____ DATE (3298.06)

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.