

Miami County, KS
 Well: Barkis A-14
 Lease Owner: Altivista Energy

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

Commenced Spudding:
 4-14-2015

WELL LOG

| Thickness of Strata | Formation | Total Depth |
|---------------------|-------------|-------------|
| 0 - 13 | Soil - Clay | 13 |
| 13 | Lime | 26 |
| 72 | Shale | 98 |
| 19 | Lime | 117 |
| 12 | Shale | 129 |
| 11 | Lime | 140 |
| 2 | Shale | 142 |
| 10 | Sandy Shale | 152 |
| 19 | Shale | 171 |
| 3 | Lime | 174 |
| 38 | Shale | 212 |
| 12 | Lime | 224 |
| 15 | Shale | 239 |
| 25 | Lime | 264 |
| 8 | Shale | 272 |
| 21 | Lime | 293 |
| 3 | Shale | 296 |
| 3 | Lime | 299 |
| 4 | Shale | 303 |
| 9 | Lime | 312 |
| 13 | Shale | 325 |
| 5 | Sand | 330 |
| 16 | Shale | 346 |
| 4 | Sand | 350 |
| 5 | Sand | 355 |
| 3 | Sand | 358 |
| 22 | Sandy Shale | 380 |
| 125 | Shale | 505 |
| 2 | Lime | 507 |
| 2 | Shale | 509 |
| 1 | Lime | 510 |
| 10 | Shale | 520 |
| 7 | Lime | 527 |
| 19 | Shale | 546 |
| 6 | Lime | 552 |
| 7 | Shale | 559 |
| 4 | Lime | 563 |
| 7 | Shale | 570 |
| 3 | Lime | 573 |
| 2 | Shale | 575 |

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-14

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 |
|---------------------|-------------|-------------|---------------------|
| 0-13 | soil-clay / | 13 | |
| 13 | Lime | 26 | |
| 72 | Shale | 98 | |
| 19 | Lime | 117 | |
| 12 | Shale | 129 | |
| 11 | Lime | 140 | |
| 2 | Shale | 142 | |
| 10 | sandy shale | 152 | |
| 19 | Shale | 171 | red bed |
| 3 | Lime | 174 | |
| 38 | Shale | 212 | |
| 12 | Lime | 224 | |
| 15 | Shale | 239 | |
| 25 | Lime | 264 | |
| 8 | Shale | 272 | |
| 21 | Lime | 293 | |
| 3 | Shale | 296 | |
| 3 | Lime | 299 | |
| 4 | Shale | 303 | |
| 9 | Lime | 312 | Hertha |
| 13 | Shale | 325 | |
| 5 | Sand | 330 | odor - no show |
| 16 | Shale | 346 | |
| 4 | Sand | 350 | grey - no oil |
| 5 | Sand | 355 | heavy oil - OK show |
| 3 | Sand | 358 | no oil |
| 22 | sandy shale | 380 | |



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# 804015

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-14

| 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 | 712.000 | 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 | 93.000 | 11.5000 | 30.000 | 748.65 |
| 1118B | Premium Gel / Bentonite | 256.000 | 0.2200 | 30.000 | 39.42 |
| 1111 | Sodium Chloride (Granulated Salt) | 187.000 | 0.3900 | 30.000 | 51.05 |
| 4402 | 2 1/2 Rubber Plug | 1.000 | 29.5000 | 30.000 | 20.65 |
| 1110A | Kol Seal (50# BAG) | 465.000 | 0.4600 | 30.000 | 149.73 |

Subtotal 3,171.15
 Discounted Amount 951.35
 SubTotal After Discount 2,219.80

Amount Due 3,281.47 If paid after 05/17/15

Tax: 77.22
 Total: 2,297.02



CONSOLIDATED
Oil Well Services, LLC

2682
2612

TICKET NUMBER 50938
LOCATION Ottawa KS
FOREMAN Fred Maden

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

INVOICE #8405
FIELD TICKET & TREATMENT REPORT
CEMENT

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|---------------------------------|------------|--------------------|---------|----------|---------|--------|
| 4-15-15 | 3244 | Barkis # A-14 | NW 17 | 16 | 22 | M |
| CUSTOMER Alta Vista Energy | | | TRUCK # | DRIVER | TRUCK # | DRIVER |
| MAILING ADDRESS P.O. Box 128 | | | 712 | FrcMadt | | |
| CITY Wellsville | | | 495 | Harbec | | |
| STATE KS | | | 675 | Kai Det | | |
| ZIP CODE 66092 | | | 548 | Ar1McD | | |

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 740' CASING SIZE & WEIGHT 2 7/8 EUF
CASING DEPTH 712 DRILL PIPE _____ TUBING 6 3/4 681' OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31' + Plug
DISPLACEMENT 3.96 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold Safety meeting. Establish pump rate. Mix + Pump 100# Gel Flush. Mix + Pump 93 sks 50/50 Por 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 Maden

| 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 | 712 | 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 ²⁰ |
| | | | | 1210 ⁸⁰ |
| 1124 | 93 sks | 50/50 Por Mix Cement | | 1069 ⁵⁰ |
| 1118B | 256 # | Premium Gel | | 56 ³² |
| 1111 | 187 # | Granulated Salt | | 72 ²³ |
| 1110A | 465 # | Kol Seal | | 213 ²⁰ |
| | | Material | | 1412 ⁶⁵ |
| 4402 | 1 | 2 1/2" Rubber Plug | | 29 ⁵⁰ |
| | | Less 30% | | -432 ⁶⁵ |
| | | Total | | 1009 ⁵⁰ |
| | | 7.65% | SALES TAX | 77 ²³ |
| | | | ESTIMATED TOTAL | 2297 ⁰² |

AVS
Ravin 3737
AUTHORIZATION Bryan Hill TITLE _____ DATE 328147

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.