





# 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. 7

Farm Ed Flake

KS Miami  
(State) (County)

9 R6 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          |
|---------------------|--------------|-------------|------------------|
| 0-14                | Soil - clay  | 14          |                  |
| 16                  | Shale        | 30          |                  |
| 4                   | Lime         | 34          |                  |
| 47                  | Shale        | 81          |                  |
| 8                   | Lime         | 89          |                  |
| 12                  | Shale        | 101         |                  |
| 32                  | Lime         | 133         |                  |
| 9                   | Shale        | 142         |                  |
| 19                  | Lime         | 161         |                  |
| 3                   | Shale        | 164         |                  |
| 3                   | Lime         | 167         |                  |
| 3                   | Shale        | 170         |                  |
| 7                   | Lime         | 177         | Hertha           |
| 48                  | Shale        | 225         |                  |
| 23                  | sand         | 248         | gas odor - water |
| 82                  | Shale        | 330         |                  |
| 7                   | limey sand   | 337         | white - no oil   |
| 45                  | Shale        | 382         | 367 - redbed     |
| 4                   | Lime         | 386         |                  |
| 5                   | Shale        | 391         |                  |
| 5                   | Shale & Lime | 396         |                  |
| 9                   | Shale        | 405         |                  |
| 10                  | Lime         | 415         |                  |
| 12                  | Shale        | 427         |                  |
| 4                   | Lime         | 431         |                  |
| 14                  | Shale        | 445         |                  |
| 21                  | Lime         | 466         |                  |





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# 809666

Invoice Date: 02/27/17

Terms: Net 30

Page 1

ALTAVISTA ENERGY INC  
 PO BOX 128  
 WELLSVILLE KS 66092  
 USA  
 7858834057

ed flake #7

Tax: 31.70

Total: 1,844.01



**CONSOLIDATED**  
Oil Well Services, LLC

7014  
7512

TICKET NUMBER 50404

LOCATION Ottawa KS

FOREMAN Fred Mader

Invoice #809666

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 |         |        |         |        |     |            |  |  |     |         |  |  |     |         |  |  |     |         |  |  |
|--|--------------------|--------------------------|---|----------|-------|--------|---------|--------|---------|--------|-----|------------|--|--|-----|---------|--|--|-----|---------|--|--|-----|---------|--|--|
| 2-22-17                                  | 3244               | Ed Flake. # 7            | SW 9  | 18       | 24    | ML     |         |        |         |        |     |            |  |  |     |         |  |  |     |         |  |  |     |         |  |  |
| CUSTOMER<br><u>Alta Vista Energy Inc</u> |                    |                          | <table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>712</td> <td>Fred Mader</td> <td></td> <td></td> </tr> <tr> <td>495</td> <td>Nar Boc</td> <td></td> <td></td> </tr> <tr> <td>625</td> <td>Kel Det</td> <td></td> <td></td> </tr> <tr> <td>548</td> <td>Ari Mod</td> <td></td> <td></td> </tr> </tbody> </table> |          |       |        | TRUCK # | DRIVER | TRUCK # | DRIVER | 712 | Fred Mader |  |  | 495 | Nar Boc |  |  | 625 | Kel Det |  |  | 548 | Ari Mod |  |  |
| TRUCK #                                  | DRIVER             | TRUCK #                  |   |          |       |        | DRIVER  |        |         |        |     |            |  |  |     |         |  |  |     |         |  |  |     |         |  |  |
| 712                                      | Fred Mader         |                          |   |          |       |        |         |        |         |        |     |            |  |  |     |         |  |  |     |         |  |  |     |         |  |  |
| 495                                      | Nar Boc            |                          |   |          |       |        |         |        |         |        |     |            |  |  |     |         |  |  |     |         |  |  |     |         |  |  |
| 625                                      | Kel Det            |                          |   |          |       |        |         |        |         |        |     |            |  |  |     |         |  |  |     |         |  |  |     |         |  |  |
| 548                                      | Ari Mod            |                          |   |          |       |        |         |        |         |        |     |            |  |  |     |         |  |  |     |         |  |  |     |         |  |  |
| MAILING ADDRESS<br><u>P.O. Box 128</u>   |                    |                          |   |          |       |        |         |        |         |        |     |            |  |  |     |         |  |  |     |         |  |  |     |         |  |  |
| CITY<br><u>Wellsville</u>                | STATE<br><u>KS</u> | ZIP CODE<br><u>66092</u> |   |          |       |        |         |        |         |        |     |            |  |  |     |         |  |  |     |         |  |  |     |         |  |  |

JOB TYPE Plug HOLE SIZE 5 5/8 HOLE DEPTH 540 CASING SIZE & WEIGHT N/A  
 CASING DEPTH N/A DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT bags FULL  
 DISPLACEMENT N/A DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 3 BPM

REMARKS: Hold Safety meeting. Rig run drill pipe to TD. Spot 10 SKS Cement @ TD. Pull drill pipe to 250'. Fill to surface w/ Cement. Pull drill pipe out. Top off well w/ Cement. Wash out drill pipe.

TOS Drilling.

Fred Mader

| ACCOUNT CODE    | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL           |
|-----------------|-------------------|------------------------------------|------------|-----------------|
| CE0450          | 1                 | PUMP CHARGE                        | 495        | 1500.00         |
| CE0002          | 80 mi             | MILEAGE                            | 495        | 21450.00        |
| CE0711          | Minimum           | Ten Miles                          | 548        | 6600.00         |
| WE0853          | 2 hrs             | 80 BBL Vac Truck                   | 675        | 200.00          |
|                 |                   | Sub Total                          |            | 25745.00        |
|                 |                   | less 45%                           |            | -1158.53        |
|                 |                   |                                    |            | 1415.97         |
| 11305<br>CC5840 | 48 SKS            | Por Blend IA Cement                | 648.00     |                 |
| CC5965          | 242#              | Bentonite Gel                      | 72.50      |                 |
|                 |                   | Sub Total                          |            | 720.60          |
|                 |                   | less 45%                           |            | -324.27         |
|                 |                   |                                    |            | 396.33          |
|                 |                   |                                    | 8%         | SALES TAX       |
|                 |                   |                                    |            | 31.71           |
|                 |                   |                                    |            | ESTIMATED TOTAL |
|                 |                   |                                    |            | 1844.01         |

Revin 3737

AUTHORIZATION Bryan Mills

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

(735273)

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.