



# 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. AI-29

Farm Knoche

KS Miami  
(State) (County)

16 18 24  
(Section) (Township) (Range)

For Altavista Energy inc  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Knoche Farm: Miami County  
KS State; Well No. A1-29  
 Elevation 914  
 Commenced Spuding 9-29 20 17  
 Finished Drilling 10-2 20 17  
 Driller's Name Wesley Dillard  
 Driller's Name \_\_\_\_\_  
 Driller's Name \_\_\_\_\_  
 Tool Dresser's Name Drake Williams  
 Tool Dresser's Name \_\_\_\_\_  
 Tool Dresser's Name \_\_\_\_\_  
 Contractor's Name TOS  
16 18 24

(Section) (Township) (Range)  
 Distance from S line, 3380 ft.  
 Distance from E line, 3890 ft.

3 sacks  
8 hrs  
5 5/8 borehole  
2 7/8 casing

**CASING AND TUBING  
 RECORD**

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_  
 8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_  
 7 ~~0~~" Set 20 6 1/2" Pulled \_\_\_\_\_  
 4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_  
 2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

**CASING AND TUBING MEASUREMENTS**

Feet	In.	Feet	In.	Feet	In.
<u>508.70</u>		<u>Barrier</u>			
<u>540.35</u>		<u>Float</u>			
<u>560 TD</u>		<u>2 7/8</u>			

414

Thickness of Strata	Formation	Total Depth	Remarks
52	Shale	466	
4	Sand	470	broken-good oil show
3	Sand	473	
87	Shale	560	solid-good saturation
			TD



REMIT TO  
 QES Pressure Pumping 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# 811428

Invoice Date: 10/03/17 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC  
 PO BOX 128  
 WELLSVILLE KS 66092  
 USA  
 7858834057

KNOCHE AI-29

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	55.000	675.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	55.000	96.53
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	55.000	297.00
WE0853	80 BBL Vacuum Truck (Cement Services)	2.000	100.0000	55.000	90.00
CC5840	Poz-Blend I A (50:50)	66.000	13.5000	55.000	400.95
CC5965	Bentonite	211.000	0.3000	55.000	28.49
CC5326	Sodium Chloride, Salt	139.000	1.0000	55.000	62.55
CC6077	Kolseal	330.000	0.5000	55.000	74.25
CC6128	Mud Flush - C	0.500	50.0000	55.000	11.25
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	55.000	20.25

Subtotal 3,902.80  
 Discounted Amount 2,146.54  
 SubTotal After Discount 1,756.26

Amount Due 4,009.06 If paid after 11/02/17

Tax: 47.82  
 Total: 1,804.09



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

9174  
9005

TICKET NUMBER 53878

LOCATION Ottawa KS

FOREMAN Fred Maden

FIELD TICKET & TREATMENT REPORT  
CEMENT

Invoice # 811428

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-2-17	3244	Knoche AI-29	NW 14	18	24	MI
CUSTOMER			TRUCK #			
Altaivista Energy Inc			712 / Fred Mad			
MAILING ADDRESS			495 / Hor Bec			
P.O. Box 128			675 / Kei Bat			
CITY			804 / Arl McD			
Wellsville						
STATE						
KS						
ZIP CODE						
66092						

JOB TYPE Logging HOLE SIZE 5 7/8 HOLE DEPTH 560 CASING SIZE & WEIGHT 275 EUF  
 CASING DEPTH 590' DRILL PIPE Baffle in TUBING 508 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 32'  
 DISPLACEMENT 2.95 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 413 P/M

REMARKS: Hold Safety meeting. Establish pump rate. Pump 1/2 Gal Mud Flush "C". Circulate to condition hole. Mix & Pump 100# Gel Flush. Mix & Pump 66 SKS Poz Blend IA 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 - Wesley Dillard.

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1508.00
CE0002	30mi	MILEAGE	495	21450.00
CE0711	Minimum	Ten Miles Delivery	804	660.00
WE0853	2hrs	80 BBL Vac Truck	675	200.00
		Sub Total		2574.50
		Less 55%		1158.53
CC5840	66 SKS	Poz Blend IA Cement	891.00	
CC5865	211#	Bentonite Gel	635.00	
CC5826	139#	Salt	139.00	
CC6077	380#	Kol Seal	165.00	
CC6128	1/2 Gal	Mud Flush "C"	25.00	
CP8176	1	2 1/2" Rubber Plug	45.00	
		Sub Total		1328.20
		Less 55%		597.74
		8%	SALES TAX	47.83
			ESTIMATED TOTAL	1804.09
				4009.06

Revin 3737 AUTHORIZATION Bayan Mills TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.