

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 $SPM \times d$

$$\text{BELT LENGTH} = 2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$$

* Need these to figure belt length

$$\text{TO FIGURE AMPS: } \frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$$

746 WATTS equal 1 HP

Log Book

Well No. A-44

Farm Windler

KS Miami
(State) (County)

21 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

Thickness of Strata	Formation	Total Depth	Remarks
0-9	soil - clay	9	
5	Lime	14	
14	Shale	28	
33	Lime	61	
6	Shale	67	
20	Lime	87	
4	Shale	91	
2	Lime	93	
4	Shale	97	
7	Lime	104	Hertha
20	Shale	124	
12	sand	136	broken - good oil show
23	sandy shale	159	
101	Shale	260	
7	sandy shale	267	
10	limy sand	277	no oil
34	shale	311	
6	Lime	317	
7	Shale	324	
5	Lime	329	
9	Shale	338	
9	Lime	347	
15	Shale	362	
4	Lime	366	
14	Shale	380	
26	Lime	406	
7	Shale	413	



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#

811869

Invoice Date: 11/29/17

Terms: Net 30

Page 1

ALTAVISTA ENERGY INC

PO BOX 128
WELLSVILLE KS 66092
USA
7858834057

Windler A-44

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	50.000	750.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	50.000	107.25
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	50.000	330.00
WE0853	80 BBL Vacuum Truck (Cement Services)	2.000	100.0000	50.000	100.00
CC5840	Poz-Blend I A (50:50)	67.000	13.5000	50.000	452.25
CC5965	Bentonite	213.000	0.3000	50.000	31.95
CC5326	Sodium Chloride, Salt	141.000	1.0000	50.000	70.50
CC6077	Kolseal	335.000	0.5000	50.000	83.75
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	50.000	22.50

Subtotal 3,896.40

Discounted Amount 1,948.20

SubTotal After Discount 1,948.20

Amount Due 4,002.15 If paid after 12/29/17

Tax: 52.87

Total: 2,001.07



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

9584
 9477

TICKET NUMBER 53920
 LOCATION Ottawa KS
 FOREMAN Fred Maden

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice # 811869

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-28-17	3244	Winder A-414	NW 21	18	24	MI
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Alta Vista Energy Inc			712	Fred Maden		
MAILING ADDRESS			495	Casey		
W. P.O. Box 128			369	Mik Hea		
CITY	STATE	ZIP CODE	558	Art McD		
Wellsville	KS	66092				

JOB TYPE Logging HOLE SIZE 5 7/8 HOLE DEPTH 560 CASING SIZE & WEIGHT 2 3/4 EUE
 CASING DEPTH 546 DRILL PIPE _____ TUBING 505 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING 30' x Plug
 DISPLACEMENT 2.95 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.0 BPM

REMARKS: Hold Safety meeting. Establish Circulation. Mix & Pump 100* Gel
 Flush. Mix & Pump 675Ks Per Mix I A Cement 2% Gel 5% Salt
 5* K&L 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 Daily

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1500.00
CE0002	30mi	MILEAGE	495	214.50
CE0711	Minimum	Tax Miles Delivery	558	660.00
WE0853	2 hrs	60 BBL Vac Truck	369	200.00
		Sub Total		2574.50
		Less 50%		1287.25
CC5840	675Ks	Per Blend I A Cement	904.50	609.25
CC5705	213*	Bentonite Gel	639.00	136.25
CC5326	141*	Salt	141.00	136.25
CC6077	335*	K&L Seal	167.50	136.25
CP8176	1	2 1/2" Rubber Plug	45.00	136.25
		Sub Total		1321.90
		Less 50%		660.95
		SALES TAX		52.87
		ESTIMATED TOTAL		2001.82

Ravin 3737

AUTHORIZATION Byron Mills TITLE _____ DATE 40 DEC 2017

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.