

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-11

Farm Holtz

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

Thickness of Strata	Formation	Total Depth	Remarks
0-13	soil-clay	13	
34	Lime	47	
5	Shale	52	
24	Lime	76	
2	Shale	78	
3	Lime	81	
4	Shale	85	
5	Lime	90	Hertha
21	Shale	111	
15	sand	126	broken - good oil show
14	sandy shale	140	
112	shale	252	
8	sandy lime	260	white - no oil
39	Shale	299	
8	Lime	307	
6	Shale	313	
5	Lime	318	
8	Shale	326	
10	Lime	336	
13	Shale	349	
4	Lime	353	
14	Shale	367	
21	Lime	388	
6	Shale	394	
2	Lime	396	
69	Shale	465	
1	sand	466	solid - good saturation



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# 812114

Invoice Date: 12/28/17

Terms: Net 30

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ALTAVISTA ENERGY INC
PO BOX 128
WELLSVILLE KS 66092
USA
7858834057

HOLTZ #A-11

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	45.000	825.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	45.000	117.98
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	45.000	363.00
WE0853	80 BBL Vacuum Truck (Cement Services)	2.000	100.0000	45.000	110.00
CC5840	Poz-Blend I A (50:50)	68.000	13.5000	45.000	504.90
CC5965	Bentonite	215.000	0.3000	45.000	35.48
CC5326	Sodium Chloride, Salt	143.000	1.0000	45.000	78.65
CC6077	Kolseal	340.000	0.5000	45.000	93.50
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	45.000	24.75

Subtotal 3,915.00
Discounted Amount 1,761.75
SubTotal After Discount 2,153.25

Amount Due 4,022.24 If paid after 01/27/18

Tax: 58.98
Total: 2,212.24



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

9787
9078

TICKET NUMBER 53950
LOCATION Ottawa KS
FOREMAN Fred Maden

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #812114

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-22-17	3244	Waltz # A-11	SW 16	28	24	MI
CUSTOMER Altovista Energy Inc			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. Box 128			713	Fred Mad		
CITY Wellsville	STATE KS	ZIP CODE 66092	467	KeiCar		
			675	Mikita		
			558	AlaMad		

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 540 CASING SIZE & WEIGHT 2 7/8"
CASING DEPTH 5230 DRILL PIPE Baffle in tubing @ 492 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31' + Plug
DISPLACEMENT 2.86 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.3 PM

REMARKS: Hold Safety Meeting. Establish Circulation. Mix + Pump 100#
Gel Flush. Mix + Pump 68 sks Por Blend IA Cement 2% Gel
5% Salt 5# Kal 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
shot in casing.

TOS Drilling.

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	467 1500 ⁰⁰	
CE0002	30mi	MILEAGE	467 214 ⁵⁰	
CE0711	Minimum	Ten Miles Delivery	558 660 ⁰⁰	
WE0953	2hr	80 BBL Vac Truck	675 200 ⁰⁰	
		Sub Total	2574 ⁵⁰	
		Less 45%		1415 ⁹⁵
CC5740	68 sks	Por Blend IA Cement	918 ⁰⁰	
CC5965	215 #	Bentonite Gel	64 ⁵⁰	
CC5321	143 #	Salt	143 ⁰⁰	
CC6077	340 #	Kal Seal	170 ⁰⁰	
CP8176	1	2 1/2" Rubber Plug	45 ⁰⁰	
		Sub Total	1340 ⁵⁰	
		Less 45%		737 ²⁵
		SALES TAX		58 ²⁵
		ESTIMATED TOTAL		2212 ²⁴

Ravin 3737

AUTHORIZATION _____ TITLE _____ DATE 4022 24

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.