

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 - $\text{RPM} \times d$ over $\text{SPM} \times R$

d - $\text{SPM} \times R \times D$ over RPM

SPM - $\text{RPM} \times D$ over $R \times d$

R - $\text{RPM} \times D$ over $\text{SPM} \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. A-10

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
0-14	Soil - clay	14	
18	Shale	32	
7	Lime	39	
13	Shale	52	odor - slight Show
34	Lime	86	oil Show
5	Shale	91	
22	Lime	113	
4	Shale	117	
3	Lime	120	
5	Shale	125	
6	Lime	131	Horsting
25	Shale	156	
14	sandy shale	170	
119	shale	289	284 - redbed
10	sandy lime	299	no oil - white
40	shale	339	
5	Lime	344	
7	Shale	351	
4	Lime	355	
9	Shale	364	
10	Lime	374	
11	Shale	385	
4	Lime	389	
12	Shale	401	
26	Lime	427	
6	Shale	433	
2	Lime	435	



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# 812058

Invoice Date: 12/19/17 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

HOLTZ #A-10

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)	70.000	13.5000	50.000	472.50
CC5965	Bentonite	218.000	0.3000	50.000	32.70
CC5326	Sodium Chloride, Salt	147.000	1.0000	50.000	73.50
CC6077	Kolseal	350.000	0.5000	50.000	87.50
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	50.000	22.50

Subtotal 3,951.90
 Discounted Amount 1,975.95
 SubTotal After Discount 1,975.95

Amount Due 4,062.09 If paid after 01/18/18

Tax: 55.10
 Total: 2,031.05



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

9737
 6/12/23

TICKET NUMBER 53924

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice #812058

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12/16/17	3244	Holt # A-10	SE 16	18	24	M1
CUSTOMER Altavista Energy			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS PO Box 128			467	KeiCar	✓	Safety/Logging
CITY STATE ZIP CODE Wellsville KS 66092			558	Cashen	✓	
			369	Ala Mad	✓	

JOB TYPE longstring HOLE SIZE 5 5/8" HOLE DEPTH 580' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 558' DRILL PIPE _____ TUBING baffle - 526' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32'
 DISPLACEMENT 3.04 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: Well safety, making, established circulation, mixed & pumped 100 # Gel followed by 5 bbls fresh water mixed & pumped 70 sks Pozblend IA cement w/ 2% gel, 5# Kolseal, & 5% salt per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 3.04 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

[Handwritten signature]

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	30 mi	MILEAGE	214.50	
CE0711	60000 min	Van mileage	600.00	
WE0853	2 hrs	80 Vac	200.00	
		trucks	2574.50	
		- 50%	1287.25	1287.25
CC5840	70 sks	Pozblend IA cement	945.00	
CC5965	2 18 #	Gel	65.40	
CC5326	147 #	Salt	147.00	
CC6077	350 #	Kolseal	175.00	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1377.40	
		- 50%	688.70	
		Subtotal		688.70
		8.9%		55.10
		SALES TAX		55.10
		ESTIMATED TOTAL		2031.05

15131
 AUTHORIZATION No Co Rep on location TITLE _____ DATE (4062.09)

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.