

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-43

Farm Windler

KS
(State)

Miami
(County)

21
(Section)

18
(Township)

24
(Range)

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Windler Farm: Miami County

KS State; Well No. A-43

Elevation 938

Commenced Spuding 11-20 20 17

Finished Drilling 11-21 20 17

Driller's Name Wesley Dalford

Driller's Name Ryan Ward

Driller's Name

Tool Dresser's Name

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

21 18 24

(Section) (Township) (Range)
Distance from S line, 4270 ft.

Distance from E line, 4515 ft.

3 sacks
9 hrs
1 core
5 5/8 borehole
2 7/8 casing

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
8" Set _____ 8" Pulled _____
7 3/4" Set 20 _____ 6 1/4" Pulled _____
4" Set _____ 4" Pulled _____
2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
488		seat nipple			
519.65		Bottle			
551.55		Float			
560		T.D.			

Thickness of Strata	Formation	Total Depth	Remarks
0-15	soil-clay	15	
9	Lime	24	
12	Shale	36	
32	Lime	68	
7	Shale	75	
20	Lime	95	
4	Shale	99	
2	Lime	101	
5	Shale	106	
6	Lime	112	Heather
21	Shale	133	
10	sand	143	broken - good oil show
12	sandy shale	155	
118	Shale	273	
11	limy sand	284	white - no oil
39	Shale	323	
6	Lime	329	
5	Shale	334	
3	Lime	337	
11	Shale	348	
11	Lime	359	
12	Shale	371	
4	Lime	375	
14	Shale	389	
28	Lime	417	
4	Shale	421	
2	Lime	423	



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#

811806

Invoice Date: 11/27/17

Terms: Net 30

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ALTAVISTA ENERGY INC

PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

Windler A-43

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)	75.000	13.5000	50.000	506.25
CC5965	Bentonite	226.000	0.3000	50.000	33.90
CC5326	Sodium Chloride, Salt	158.000	1.0000	50.000	79.00
CC6077	Kolseal	375.000	0.5000	50.000	93.75
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	50.000	22.50

Subtotal 4,045.30

Discounted Amount 2,022.65

SubTotal After Discount 2,022.65

Amount Due 4,162.96 If paid after 12/27/17

Tax: 58.83

Total: 2,081.48



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

9539
 9430

TICKET NUMBER 53918
 LOCATION Oxtawa KS
 FOREMAN Fred Maden

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice # 811806

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11/21/17	3244	Winder 1 A-43	NW 21	18	24	mi
CUSTOMER			TRUCK #			
Altonista Energy Inc			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 128			DRIVER			
CITY			TRUCK #			
Wellsville			DRIVER			
STATE			TRUCK #			
KS			DRIVER			
ZIP CODE			TRUCK #			
66092			DRIVER			

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 560 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 552 DRILL PIPE Baffle tubing @ 520 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32' x Plug
 DISPLACEMENT 3.02 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 3 BPM

REMARKS: Hold Safety meeting. Establish circulation. Mix & Pump 100# Gel Flush. Mix & Pump 75 sks Por 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

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	368	1500.00
CE0002	30 mi	MILEAGE	368	214.50
CE0711	Minimum	Ten Miles Delivery	558	1660.00
WE0853	2 hrs	80 BBL Vac Truck	369	200.00
		Sub Total		2574.50
		less 50%		1287.25
1479 CC5840	75 sks	Por Blend IA Cement		1072.50
CC5965	226#	Bentonite Gel		67.50
CC5326	158#	Salt		168.00
CL6077	375#	Kol Seal		187.50
CP8176	1	2 1/2" Rubber Plug		45.00
		Sub Total		1470.00
		less 50%		735.00
		8%	SALES TAX	58.53
			ESTIMATED TOTAL	2081.45
				(4162.96)

AUTHORIZATION Dogge 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.