



# Short Cuts

## TANK CAPACITY

BBLs. (42 gal.) equals  $D^2 \times 1.4 \times h$

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-43

Farm Winder

KS Michigan  
(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

Windler Farm: Miami County

KS State; Well No. AI-43

Elevation 917

Commenced Spudding 12-1 20 17

Finished Drilling 12-4 20 17

Driller's Name Wesley Dollar

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, 4830 ft.

Distance from E line, 4815 ft.

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

CASING AND TUBING RECORD

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

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
538.85				Baffle	
570.55				Floor	
				2	7/8
580		TD			

Thickness of Strata	Formation	Total Depth	Remarks
0-6	soil-clay	6	
7	Lime	13	
14	Shale	27	
32	Lime	59	
5	Shale	64	
21	Lime	85	
4	Shale	89	
2	Lime	91	
4	Shale	95	
6	Lime	101	Heitha
21	Shale	122	
13	sand	135	broken - good Oil show
15	sandy shale	150	
110	Shale	260	
12	limy sand	272	no oil
40	Shale	312	
5	Lime	317	
7	Shale	324	
5	Lime	329	
9	Shale	338	
12	Lime	350	
11	Shale	361	
4	Lime	365	
14	Shale	379	
25	Lime	404	
71	Shale	475	
3	sandy shale	478	





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#

811970

Invoice Date: 12/05/17

Terms: Net 30

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ALTAVISTA ENERGY INC

PO BOX 128  
WELLSVILLE KS 66092  
USA  
7858834057

Windler #AI-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)	77.000	13.5000	50.000	519.75
CC5965	Bentonite	229.000	0.3000	50.000	34.35
CC5326	Sodium Chloride, Salt	162.000	1.0000	50.000	81.00
CC6077	Kolseal	385.000	0.5000	50.000	96.25
CC6128	Mud Flush - C	0.500	50.0000	50.000	12.50
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	50.000	22.50

Subtotal 4,107.20

Discounted Amount 2,053.60

SubTotal After Discount 2,053.60

Amount Due 4,229.82 If paid after 01/04/18

Tax: 61.31

Total: 2,114.91



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

9450  
 9541

TICKET NUMBER 53906  
 LOCATION Chanute KS  
 FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT  
 CEMENT

Invoice #811970

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12/4/17	3244	Wmoller # AI-43	NW21	18	24	MI
CUSTOMER Atavista Energy			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS PO Box 128			7291	Casey Ken	✓ Safety Meeting	
CITY Wellsville			4951	Har Bec	✓	
STATE KS			5581	Ar McD	✓	
ZIP CODE 66025			6751	Kei Det	✓	

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 580' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 570' DRILL PIPE \_\_\_\_\_ TUBING baffle - 539' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 31'  
 DISPLACEMENT 3.12 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 1/2 gal polymer, circulated to condition hole, mixed & pumped 100 # gel, followed by 5 bbls fresh water, mixed & pumped 77 sks Portland A cement w/ 2% gel, 5% salt, & 5 # Kol seal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 3.12 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

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	min	ten mileage	660.00	✓
WE0853	2 hrs	SD Vac	200.00	✓
		trucks	2574.50	
		- 50%	1287.25	
		subtotal		1287.25
CC5840	77 sks	Portland Cement	1039.50	✓
CC5965	229 #	Gel	68.70	✓
CC5304	162 #	Salt	162.00	✓
CC6077	385 #	Kol seal	192.50	✓
CC6128	1/2 gal	Polymer	25.00	✓
CP8176	1	2 1/2" rubber plug	45.00	✓
		materials	1532.70	
		- 50%	766.35	
		subtotal		766.35
		8%		
		SALES TAX		61.31 ✓
		ESTIMATED TOTAL		2114.91

AUTHORIZATION No Co Rep on location TITLE \_\_\_\_\_ DATE (4229.52)

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.