

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-46

Farm

Wendler

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

Wendler Farm: Miami County
KS State: Well No. A-46
Elevation 910
Commenced Spuding 11-29 20 17
Finished Drilling 11-30 20 17
Driller's Name Wesley Dollard
Driller's Name Ryan Wood
Driller's Name _____
Tool Dresser's Name _____
Tool Dresser's Name _____
Tool Dresser's Name _____
Contractor's Name TGS
21 13 24

(Section) (Township) (Range)
Distance from S line, 4830 ft.
Distance from E line, 5115 ft.
3 sacks
2 hrs
1 core
5 3/4 barrels
2 7/8 casing

CASING AND TUBING RECORD

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

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
6					
472.40		Sewer pipe			
504.15		Ball pipe 2 7/8			
534.85		Floor			
560	TJD				

A-46 Windler

Thickness of Strata	Formation	Total Depth	Remarks
0-6	Soil - Clay	6	
7	Lime	13	
11	Shale	24	
32	Lime	56	
8	Shale	64	
18	Lime	82	
4	Shale	86	
2	Lime	88	
4	Shale	92	
6	Lime	98	Heather
22	Shale	120	
14	Sand	134	broken - good oil show
14	sandy shale	148	
112	Shale	260	
13	sandy Lime	273	no oil
36	Shale	309	
5	Lime	314	
7	Shale	321	
5	Lime	326	
8	Shale	334	
9	Lime	343	
14	Shale	357	
4	Lime	361	
14	Shale	375	
26	Lime	401	
70	Shale	471	
6	Sandy shale	477	476-477 odor

A-46

Windler

477

Thickness of Strata	Formation	Total Depth	Remarks
18	Core	495	
65	Shale	560	TD
	Core		
		477	
9	sand	486	broken - good oil show
9	sandy shale	495	



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#

811952

Invoice Date: 11/30/17

Terms: Net 30

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ALTAVISTA ENERGY INC
 PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

WINDLER #A-46

Tax: 58.83

Total: 2,081.48



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

9033
9508

TICKET NUMBER 53905

LOCATION Chanute, KS

FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

INVOICE # 811952

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY			
11/30/17	3244	Winder # A-46	NW 21	18	24	MI			
CUSTOMER Altavista Energy									
MAILING ADDRESS PO Box 128									
CITY Wellsville		STATE KS	ZIP CODE 66092						
		TRUCK #		DRIVER		TRUCK #		DRIVER	
		739		Gas Ken		✓		Safety Meeting	
		495		Har Bec		✓			
		558		Art McD		✓			
		369		Mikha		✓			

JOB TYPE logstring HOLE SIZE 5 5/8 HOLE DEPTH 560' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 535' DRILL PIPE TUBING baffle - 504' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31'
 DISPLACEMENT 2.92 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 100 # gel followed by 5 bbls fresh water, mixed & pumped 75 sks Pozblend IA cement w/ 2% gel, 5% salt, & 5 # Kolseal per sk, cement to surface. Flushed pump clean pumped 2 1/2" rubber plug to baffle w/ 2.92 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	min	ton mileage	660.00	
WE0853	2 hrs	80 Vac	200.00	
		trucks	2574.50	
		- 50%	1287.25	
		Subtotal		1287.25
CC5840	75 sks	Pozblend IA cement	1012.50	
CC5965	226 #	Gel	67.80	
CC5326	158 #	Salt	158.00	
CC6077	375 #	Kolseal	187.50	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1470.80	
		- 50%	735.40	
		Subtotal		735.40
		5%		
		SALES TAX		58.83

Ravin 3737

AUTHORIZATION No Co Rep on location TITLE _____ DATE _____
 ESTIMATED TOTAL 2081.48
(4162.96)

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.