

Miami County, KS
 Well: Windler A-47
 Lease Owner: AltaVista

Town Oilfield Service, Inc.
 (913) 294-2125

Commenced Spudding:
 11/30/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-10	Soil-Clay	10
7	Lime	17
13	Shale	30
34	Lime	64
5	Shale	69
20	Lime	89
4	Shale	93
3	Lime	96
4	Shale	100
7	Lime	107
20	Shale	127
16	Sand	143
17	Sandy Shale	160
106	Shale	266
14	Limey Sand	280
35	Shale	315
6	Lime	321
5	Shale	326
3	Lime	329
3	Shale	332
1	Lime	333
8	Shale	341
8	Lime	349
16	Shale	365
4	Lime	369
16	Shale	385
23	Lime	408
20	Shale	428
1	Lime	429
49	Shale	478
6	Sandy Shale	484
15	Core	499
36	Shale	535
1	Lime	536
24	Shale	560-TD

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 - $RPM \times d$ 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 $SPM \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. A-47

Farm Windler

KS Miami
(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

Thickness of Strata	Formation	Total Depth	Remarks
0-10	ss. l - clay	10	
7	Lime	17	
13	Shale	30	
34	Lime	64	
5	Shale	69	
20	Lime	89	
4	Shale	93	
3	Lime	96	
4	Shale	100	
7	Lime	107	Hertha
20	Shale	127	
16	sand	143	broken - good oil show
17	sandy shale	160	
106	Shale	266	
14	limy sand	280	no oil
35	Shale	315	
6	Lime	321	
5	Shale	326	
3	Lime	329	
3	Shale	332	
1	Lime	333	
8	Shale	341	
8	Lime	349	
16	Shale	365	
4	Lime	369	
16	Shale	385	
23	Lime	408	



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#

811969

Invoice Date: 12/05/17

Terms: Net 30

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ALTAVISTA ENERGY INC

PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

windler #a47

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)	68.000	13.5000	50.000	459.00
CC5965	Bentonite	214.000	0.3000	50.000	32.10
CC5326	Sodium Chloride, Salt	143.000	1.0000	50.000	71.50
CC6077	Kolseal	340.000	0.5000	50.000	85.00
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	50.000	22.50

Subtotal 3,914.70

Discounted Amount 1,957.35

SubTotal After Discount 1,957.35

Amount Due 4,021.92 If paid after 01/04/18

Tax: 53.61

Total: 2,010.96



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

9049
9540

TICKET NUMBER 53922
LOCATION Ottawa KS
FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT
CEMENT

INVOICE #811969

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-1-17	3244	Windler # A-47	NW 21	18	24	MI
CUSTOMER Atavista Energy Inc			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 128			712 / Fred Mader			
CITY STATE ZIP CODE Wellsville KS 66092			495 / Harold			
			369 / Mike			
			558 / Art Mc			

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 560 CASING SIZE & WEIGHT 2 7/8 Euf
CASING DEPTH 543 DRILL PIPE Baffle in TUBING @ 5 1/2 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT 3.97 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: No H safety meeting. Establish pump rate. Mix Pump 100*
Gel Flush. Mix & Pump 6K SKs Per Blend 2A cement 2% Gel
5 7/8 Salt 5" Hal 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 Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1500 ⁰⁰
CE0002	30mi	MILEAGE	495	21450 ⁰⁰
CE0711	Minimum	Ton Miles Delivery	550	6600 ⁰⁰
WE0853	2 hrs	80 BBL Vac Truck	369	2000 ⁰⁰
		Sub Total		25740 ⁰⁰
		Less 50%		12870 ⁰⁰
CC5840	6P SKC	Per Blend 2A Cement		91800 ⁰⁰
CC5865	214#	Bentonite Gel		6420 ⁰⁰
CC5826	143#	Salt		14300 ⁰⁰
CC6027	340#	Hal Seal		17000 ⁰⁰
CP8176	1	2 1/2" Rubber Plug		4500 ⁰⁰
		Sub Total		13400 ⁰⁰
		Less 50%		6700 ⁰⁰
		8%	SALES TAX	530 ⁰⁰
			ESTIMATED TOTAL	2010 ⁰⁰

Ravin 3737

AUTHORIZATION _____ TITLE _____ DATE (402122)

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.