

Miami County, KS
 Well: Windler AI-42
 Lease Owner: AltaVista

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

Commenced Spudding:
 11/27/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-12	Soil-Clay	12
7	Lime	19
14	Shale	33
33	Lime	66
5	Shale	71
21	Lime	92
4	Shale	96
2	Lime	98
4	Shale	102
7	Lime	109
21	Shale	130
13	Sand	143
20	Sandy Shale	163
107	Shale	270
15	Limey Sand	285
35	Shale	320
5	Lime	325
7	Shale	332
3	Lime	335
9	Shale	344
8	Lime	352
15	Shale	367
4	Lime	371
14	Shale	385
25	Lime	410
7	Shale	417
1	Lime	418
64	Shale	482
4	Sandy Shale	486
8	Sand	494
10	Sandy Shale	504
35	Shale	539
1	Lime	540
40	Shale	580-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 $BPH \times PSI \times .0004$

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-42

Farm Winder

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. AI-42
 Elevation 932
 Commenced Spuding 11-27 2017
 Finished Drilling 11-28 2017
 Driller's Name Wesley Dillard
 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, 4550 ft.
 Distance from E line, 4515 ft.

3 sacks
 8 his
 5 7/8 bore hole
 2 1/8 casing

CASING AND TUBING RECORD

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

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
539.	35	Baffle			
570.	95	Float			
580	TD		2 1/8		

Thickness of Strata	Formation	Total Depth	Remarks
0-12	Soil-clay	12	
7	Lime	19	
14	Shale	33	
33	Lime	66	
5	Shale	71	
21	Lime	92	
4	Shale	96	
2	Lime	98	
4	Shale	102	
7	Lime	109	Hertha
21	Shale	130	
13	sand	143	broken - good oil show
20	sandy shale	163	
107	Shale	270	
15	limy sand	285	no oil
35	Shale	320	
5	Lime	325	
7	Shale	332	
3	Lime	335	
9	Shale	344	
8	Lime	352	
15	Shale	367	
4	Lime	371	
14	Shale	385	
25	Lime	410	
7	Shale	417	
1	Lime	418	

418

Thickness of Strata	Formation	Total Depth	Remarks
64	Shale	482	
4	Sandy shale	486	
8	sand	494	solid-good saturation
10	Sandy shale	504	
35	Shale	539	
1	Lime	540	
40	Shale	580	TD



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# 811833

Invoice Date: 11/28/17 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

WINDLER AI-42

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)	2.500	100.0000	50.000	125.00
CC5840	Poz-Blend I A (50:50)	70.000	13.5000	50.000	472.50
CC5965	Bentonite	118.000	0.3000	50.000	17.70
CC5326	Sodium Chloride, Salt	147.000	1.0000	50.000	73.50
CC6077	Kolseal	350.000	0.5000	50.000	87.50
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 3,996.90
 Discounted Amount 1,998.45
 SubTotal After Discount 1,998.45

Amount Due 4,106.69 If paid after 12/28/17

Tax: 54.89
 Total: 2,053.34



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

9555
quiver

TICKET NUMBER 53919

LOCATION @ Lawa KS

FOREMAN Fred Maden

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 811833

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-27-17	3244	Windler # AI-42	NW 21	18	24	M1
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Altaivisto Energy, LLC			712	Fred Maden		
MAILING ADDRESS			495	Barbee		
P.O. Box 128			369	Mik Han		
CITY	STATE	ZIP CODE	558	Arl McD		
Wellsville	KS	66092				

JOB TYPE Logging HOLE SIZE 5 7/8 HOLE DEPTH 580 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 571 DRILL PIPE Baffle in TUBING 539 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32' x Plug
 DISPLACEMENT 3.1334 DISPLACEMENT PSI _____ MIX PSI _____ RATE 3 1/2 BPM

REMARKS: Hold Safety meeting. Establish pump rate. Mix & Pump 1/2 Gal
Mud Flush "C". Circulate to condition hole. Mix & Pump
70 SKs Poz Blend IA Cement 2% gel 5% Sulf 5"
Kol Seal/sk. Cement to surface. Flush pump & lines clean
Displace 2 1/2" Rubber Plug to Baffle in casing. Pressure to
800* ASL. Release pressure to set float valve. Shut in casing.

T.O.S. Drilling. Fred Maden

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
CE071	Minimum	Ten Miles Delivery	558	660.00
WFO853	2 1/2 hr	80 BBL Nac Trbck	369	250.00
		Sub Total		2624.50
		- less 50%		1312.25
CC5810	70 SKs	Poz Blend IA Cement	945.00	945.00
CC5965	118#	Bentonite Gel	35.40	35.40
CC5326	147#	Sulf	147.00	147.00
CC6077	350#	Kol Seal	175.00	175.00
CC6128	1/2 Gal	Mud Flush "C"	25.00	25.00
CP9176	1	2 1/2" Rubber Plug	45.00	45.00
		Sub Total		1372.40
		less 50%		686.20
		8%		54.89
		SALES TAX		54.89
		ESTIMATED TOTAL		2053.34

AUTHORIZATION Bryan Mills TITLE _____ DATE (4106 17)

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.