

Miami County, KS
Well: Windler-Stephens AI-4
Lease Owner: AltaVista

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
12/18/2015

Core		
		484
2	Sand	486
4	Sand	490
7	Sandy Shale	497

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 $SPM \times d$

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-4

Farm Windler-Stephens

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
0-13	soil-clay	13	
7	Lime	20	
13	Shale	33	
33	Lime	66	
7	Shale	73	
22	Lime	95	
5	Shale	100	
2	Lime	102	
4	Shale	106	
6	Lime	112	
21	Shale	133	Hertha
7	sand	140	
5	sandy shale	145	broken oil
5	sand	150	
124	Shale	274	broken oil
17	sand	291	
32	Shale	323	water
5	Lime	328	
5	Shale	333	
2	Lime	335	
12	Shale	347	
7	Lime	354	
16	Shale	370	
3	Lime	373	
13	Shale	386	
26	Lime	412	
66	Shale	478	



REMIT TO
 Consolidated Oil Well Services, 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# 806687

Invoice Date: 12/22/15 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 4595 K-33 HWY, PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

windler stephens # ai-4

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	46.000	810.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	46.000	115.83
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	46.000	356.40
WE0853	80 BBL Vacuum Truck (Cement Services)	1.500	100.0000	46.000	81.00
CC5840	Poz-Blend I A (50:50)	73.000	13.5000	46.000	532.17
CC5965	Bentonite	223.000	0.3000	46.000	36.13
CC5326	Sodium Chloride, Salt	141.000	0.7500	46.000	57.11
CC6077	Kolseal	365.000	0.5000	46.000	98.55
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30
CC6128	Mud Flush - C	0.500	50.0000	46.000	13.50

Subtotal 3,935.15
 Discounted Amount 1,810.17
 SubTotal After Discount 2,124.98

Amount Due 4,048.00 If paid after 01/21/16

Tax: 60.94
 Total: 2,185.93



CONSOLIDATED
Oil Well Services, LLC

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

5041
Invoice # 806687 4949

TICKET NUMBER 49933
LOCATION Ottawa KS
FOREMAN Fred Mader

**FIELD TICKET & TREATMENT REPORT
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-21-15	3244	Windler-Stephens # A-I-4	NE 21	18	24	M1
CUSTOMER Alto Vista Energy			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 128			712	Fred Mader		
CITY STATE ZIP CODE Wellsville KS 66092			467	Kai Car		
			675	Mike Det		
			510	Art Mader		

JOB TYPE Longstray HOLE SIZE 5 7/8 HOLE DEPTH 580 CASING SIZE & WEIGHT 2 7/8 EOE
 CASING DEPTH 560 DRILL PIPE Baffle m TUBING 528 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 32' x Plug
 DISPLACEMENT 3.07 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold safety meeting. Establish pump rate. Pump 1/2 Gal HE-100 Polymer. Circulate to condition hole. Mix pump 100 Gal Flush. Mix + Pump 73 sks Per Blend I.A Cement + 2% Gal 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: Wes Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	467 15.00	
CE0002	30 mi	MILEAGE	467 214.50	
CE0211	Minimum	Ten Miles Delivery	510 660	
WE0853	1 1/2 hr	80 BBL Vac Truck	675 150	
		Sub Total	2524.50	
		Less 46%	- 1161.27	1363.23
CC5840	73 sks	Per Blend I.A Cement	985	
CC5965	223 #	Bentonite Gel	662	
CC5326	141 #	Salt	105.75	
CC6077	365 #	Kol Seal	182.50	
CP8176	1	2 1/2" Rubber Plug	45	
CC6128	1/2 Gal	Mud Flush	25	
		Sub Total	1410.65	
		Less 46%	- 648.90	761.75
		8%	SALES TAX	60.94
			ESTIMATED TOTAL	2185.93

RAVIN 3737 AUTHORIZATION As Co Rep on Site TITLE _____ DATE (12/28/15)

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.