

Miami County, KS  
 Well: Windler A-2  
 Lease Owner: AltaVista

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

Commenced Spudding:  
 11/12/2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0-17	Soil-Clay	17
9	Lime	26
12	Shale	38
31	Lime	69
7	Shale	76
21	Lime	97
5	Shale	102
2	Lime	104
4	Shale	108
6	Lime	114
22	Shale	136
5	Sand	141
6	Sand	147
19	Sandy Shale	166
107	Shale	273
16	Sand	289
35	Shale	324
5	Lime	329
20	Shale	349
8	Lime	357
16	Shale	373
4	Lime	377
15	Shale	392
25	Lime	417
7	Shale	424
2	Lime	426
8	Shale	434
5	Lime	439
49	Shale	488
4	Sandy Shale	492
1	Sand	493
10	Core	503
48	Shale	551
5	Sand	556
4	Shale	560-TD

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<b>Core</b>		
		493
1	Sand	494
1.5	Sand	495.5
2.5	Sand & Sandy Shale	498
1	Sand	499
4	Sandy Shale	503

# 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-2

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
0-17	soil - clay	17	
9	Lime	26	
12	Shale	38	
31	Lime	69	
7	Shale	76	
21	Lime	97	
5	Shale	102	
2	Lime	104	
4	Shale	108	
6	Lime	114	
22	Shale	136	Herthg
5	Sand	141	
6	Sand	147	solid - good oil show
19	Sandy shale	166	gray - no oil
107	Shale	273	
16	Sand	289	
35	Shale	324	no oil
5	Lime	329	
20	Shale	349	
8	Lime	357	
16	Shale	373	
4	Lime	377	
15	Shale	392	
25	Lime	417	
7	Shale	424	
2	Lime	426	
8	Shale	434	









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# 806403

Invoice Date: 11/18/15 Terms: Net 30 Page 1

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

windler #a-2

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)	1.000	100.0000	46.000	54.00
CC5840	Poz-Blend I A (50:50)	77.000	13.5000	46.000	561.33
CC5965	Bentonite	229.000	0.3000	46.000	37.10
CC5326	Sodium Chloride, Salt	149.000	0.7500	46.000	60.35
CC6077	Kolseal	385.000	0.5000	46.000	103.95
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 3,931.95  
 Discounted Amount 1,808.70  
 SubTotal After Discount 2,123.25

Amount Due 4,048.55 If paid after 12/18/15

Tax: 62.97  
 Total: 2,186.23





**CONSOLIDATED**  
Oil Well Services, LLC

Invoice #806103

USGS  
4712

TICKET NUMBER 49907  
LOCATION Ottawa KS  
FOREMAN Fred Mader

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

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-13-15	3244	Windler # A-2	NW 21	18	24	M1
CUSTOMER			TRUCK #			
Alta Vista Energy			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 128			DRIVER			
CITY			TRUCK #			
Wellsville			DRIVER			
STATE			TRUCK #			
KS			DRIVER			
ZIP CODE			TRUCK #			
66092			DRIVER			

JOB TYPE longstring HOLE SIZE 5 7/8 HOLE DEPTH 560' CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 554 DRILL PIPE Baffle m TUBING @ 522' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 32' + Plug  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 BPM

REMARKS: Hold Safety mixing. Establish circulation. Mix + Pump 100\*  
Gel Flush. Mix + Pump 77 SKs Por Blend IA Cement 2% Gel  
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 (was)

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	Ten Miles Delivery	570	660.00
WE0853	1 hr	80 BBL Vac Truck	675	100.00
		Sub Total		24745.00
		Less 46%		-11382.27
				13362.73
CC5840	77 SKs	Por Blend IA Cement	1039.50	1039.50
CC5965	229#	Bentonite Gel	68.20	68.20
CC5326	149#	Salt	111.75	111.75
CC6077	385	Kol Seal	192.50	192.50
CP8176	1	2 1/2" Rubber Plug	45.00	45.00
		Sub Total		1457.95
		Less 46%		-670.43
				787.52
		8.0%	SALES TAX	62.99
			ESTIMATED TOTAL	2186.03

Ravin 3737  
 AUTHORIZATION No Co Rep on Site TITLE \_\_\_\_\_ DATE (ND 48.55)

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.