

Miami County, KS  
 Well: Stahl A-10  
 Lease Owner: Altavista Energy

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

Commenced Spudding:  
 5-22-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 14	Soil & Clay	14
29	Shale	43
32	Lime	75
15	Shale	90
11	Lime	101
7	Shale	108
5	Lime	113
20	Shale	133
5	Lime	138
35	Shale	173
11	Lime	184
16	Shale	200
24	Lime	224
7	Shale	231
20	Lime	251
4	Shale	255
2	Lime	257
3	Shale	260
11	Lime	271
12	Shale	283
5	Lime	288
15	Shale	303
7	Sand	310
2	Limey Sand	312
18	Sandy Shale	330
138	Shale	468
4	Lime	472
2	Shale	474
7	Lime	481
5	Shale	486
7	Lime	493
19	Shale	512
4	Lime	516
9	Shale	525
3	Lime	528
12	Shale	540
6	Lime	546
69	Shale	615
19	Core	634
46	Shale	680 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  $SPM \times d$

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-10

Farm Stahl

KS Miami  
(State) (County)

17 16 24  
(Section) (Township) (Range)

For Altavista Energy  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East  
Louisburg, KS 66053  
913-710-5400



Thickness of Strata	Formation	Total Depth	Remarks
0-14	soil - clay	14	
29	shale	43	
32	lime	75	
15	shale	90	
11	lime	101	
7	shale	108	
5	lime	113	
20	shale	133	
5	lime	138	redbed
35	shale	173	
11	lime	184	
16	shale	200	
24	lime	224	
7	shale	231	
20	lime	251	
4	shale	255	
2	lime	257	
3	shale	260	
11	lime	271	
12	shale	283	Hertha
5	sand	288	
15	shale	303	slight show
7	sand	310	odor
2	limey sand	312	no oil
18	sandy shale	330	
138	shale	468	
4	lime	472	







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# 804443

Invoice Date: 06/05/15 Terms: Net 30 Page 1

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

STAHL # A-10

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)	2.000	100.0000	46.000	108.00
CC5840	Poz-Blend I A (50:50)	94.000	13.5000	46.000	685.26
CC5965	Bentonite	358.000	0.3000	46.000	58.00
CC5326	Sodium Chloride, Salt	197.000	0.7500	46.000	79.79
CC6077	Kolseal	470.000	0.5000	46.000	126.90
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 4,378.65  
 Discounted Amount 2,014.18  
 SubTotal After Discount 2,364.47

Amount Due 4,516.67 If paid after 07/05/15

Tax: 74.53  
 Total: 2,439.01





**CONSOLIDATED**  
Oil Well Services, LLC

7031  
2957

Invoice #804443

TICKET NUMBER 50971  
LOCATION Ottawa, KS  
FOREMAN Casey Kennedy

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
6/3/15	3244	Stahl # A-10	SW 17	16	24	MI
CUSTOMER Arkivista Energy			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS PO Box 128			729 / Cas Ken ✓ Safety Meeting			
CITY Wellsville			464 / Kei Car ✓			
STATE KS			558 / Mik Haa ✓			
ZIP CODE 66092			675 / Kei Det ✓			

JOB TYPE logstring HOLE SIZE 5 5/8" HOLE DEPTH 1080' CASING SIZE & WEIGHT 2 7/8" EUE  
CASING DEPTH 1075' DRILL PIPE \_\_\_\_\_ TUBING baffle - 644' OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
DISPLACEMENT 3.73 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped 200# Gel followed by 5 bbls fresh water, mixed + pumped 94 sks 59/50 Pozblend w/ 2% gel, 5% salt, + 5 # Kolsed per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to ~~extension~~ baffle w/ 3.73 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

*Handwritten signature/initials*

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	600.00	
WE0853	2 hrs	80 Vac	200.00	
		trucks	2574.50	
		-46%	1184.27	
		Subtotal		1390.23
CC5840	94 sks	59/50 Pozblend	1269.00	
CC5965	358 #	Gel	107.40	
CC5326	197 #	Salt	147.75	
CC6077	476 #	Kolsed	235.00	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1804.15	
		-46%	821.91	
		Subtotal		974.24
				2364.48
		7.105%	SALES TAX	74.53
			ESTIMATED TOTAL	2439.01

AUTHORIZATION Benjamin Mills TITLE \_\_\_\_\_ DATE 4/4/16.67

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.