

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

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

Commenced Spudding:
6-16-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 27	Soil - Clay	27
23	Shale	50
26	Lime	76
13	Shale	89
12	Lime	101
8	Shale	109
3	Lime	112
20	Shale	132
4	Lime	136
38	Shale	174
11	Lime	185
15	Shale	200
25	Lime	225
6	Shale	231
20	Lime	251
4	Shale	255
2	Lime	257
4	Shale	261
11	Lime	272
13	Shale	285
4	Sand	289
16	Shale	305
5	Lime	310
15	Sand	325
142	Shale	467
5	Lime	472
2	Shale	474
6	Lime	480
6	Shale	486
8	Lime	494
19	Shale	513
4	Lime	517
11	Shale	528
2	Lime	530
12	Shale	542
5	Lime	547
72	Shale	619
19	Core	638
6	Sandy Shale	644
76	Shale	720 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. AI-10

Farm Stahl

KS Miami
(State) (County)

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

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Stahl Farm: Miami County

KS State; Well No. AI-10

Elevation 992

Commenced Spuding 6-16 20 15

Finished Drilling 6-18 20 15

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

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

Distance from S line, 2310 ft.

Distance from E line, 4950 ft.

4 sacks 5 5/8 borehole
1 coil 2 7/8 casing
9 hrs

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
8" Set _____ 8" Pulled _____
7 1/2" Set 22 _____ 6 1/2" Pulled _____
4" Set _____ 4" Pulled _____
2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Table with 6 columns: Feet, In., Feet, In., Feet, In. Handwritten entries include 662.85, 694.60, 720 TD, and 2 7/8.

Thickness of Strata	Formation	Total Depth	Remarks
0-27	soil-clay	27	
23	shale	50	
26	lime	76	
13	shale	89	
12	lime	101	
8	shale	109	
3	lime	112	
20	shale	132	
4	lime	136	
38	shale	174	
11	lime	185	
15	shale	200	
25	lime	225	
6	shale	231	
20	lime	251	
4	shale	255	
2	lime	257	
4	shale	261	
11	lime	272	Heather
13	shale	285	
4	sand	289	broken - slight show
16	shale	305	
5	sand	310	slight show - mostly solid
15	sand	325	no oil
142	shale	467	
5	lime	472	
2	shale	474	



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# 804668

Invoice Date: 06/28/15 Terms: Net 30 Page 1

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

STAHL # AI-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)	86.000	13.5000	46.000	626.94
CC5965	Bentonite	244.000	0.3000	46.000	39.53
CC5326	Sodium Chloride, Salt	181.000	0.7500	46.000	73.31
CC6077	Kolseal	430.000	0.5000	46.000	116.10
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 4,229.45
 Discounted Amount 1,945.55
 SubTotal After Discount 2,283.90

Amount Due 4,356.05 If paid after 07/28/15

Tax: 68.37
 Total: 2,352.28



CONSOLIDATED

Oil Well Services, LLC

Invoice # 804668

3259 / 3/18

TICKET NUMBER 51006

LOCATION Attawa, KS

FOREMAN Cassey 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
6/18/15	3244	Stahl # AI-10	SW 17	10	24	MI
CUSTOMER <u>Attavista Energy</u>			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS <u>PO Box 128</u>			<u>709 / Cas Ken / Safety Meeting</u>			
CITY STATE ZIP CODE <u>Wellsville KS 66092</u>			<u>467 / Kei Car /</u>			
			<u>558 / Acl McD /</u>			
			<u>1075 / Kei Det /</u>			

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 720' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 694' DRILL PIPE TUBING baffle - 1613' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31'
 DISPLACEMENT 3.84 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 1/2 gal Mud Flush, circulated for 1hr to condition hole, mixed & pumped 100# Gel followed by 5 bbls fresh water, mixed & pumped 86 sks 9/50 Portland cement w/ 2% gel, 5% salt, + 5 # 1/2 real per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to saddle w/ 3.84 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

[Handwritten signature]

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	86 sks	9/50 Portland cement	13.50	1161.00
CC5965	244 #	Gel	.30	73.20
CC5326	181 #	Salt	.75	135.75
CC16074	430 #	Kalreal	.50	215.00
CP8176	1	2 1/2" rubber plug		45.00
CC16128	1/2 gal	Mud Flush		25.00
		materials	1654.95	
		- 46%	761.28	
		subtotal		893.67
		7.65%		68.37
		SALES TAX		68.37
		ESTIMATED TOTAL		2352.28

AUTHORIZATION Bryan Mills TITLE _____ DATE (4356.05)

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.