

Miami County, KS
 Well: Stahl AI-11
 Lease Owner: Altavista Energy

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

Commenced Spudding:
 6-11-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 26	Soil - Clay	26
7	Shale	33
30	Lime	63
13	Shale	76
12	Lime	88
8	Shale	96
4	Lime	100
20	Shale	120
5	Lime	125
33	Shale	158
14	Lime	172
15	Shale	187
25	Lime	212
7	Shale	219
20	Lime	239
3	Shale	242
2	Lime	244
3	Shale	247
11	Lime	258
13	Shale	271
5	Sand	276
17	Shale	293
18	Sand	311
144	Shale	455
13	Lime	468
7	Shale	475
7	Lime	482
19	Shale	501
3	Lime	504
9	Shale	513
4	Lime	517
7	Shale	524
9	Lime	533
9	Shale	542
1	Lime	543
61	Shale	604
1	Sandy Shale	605
19	Core	624
36	Shale	660 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-11

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-11

Elevation 1004

Commenced Spuding 6-11 20 15

Finished Drilling 6-12 20 15

Driller's Name Wesley Ballard

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name Stephen Scott

Tool Dresser's Name

Contractor's Name TOS

17 16 24

(Section) (Township) (Range)

Distance from S line, 2310 ft.

Distance from E line, 4620 ft.

3 sacks 5 7/8 barrels
1 coil
14 hrs 2 7/8 casing

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

7 1/4" Set 23 _____ 6 1/4" Pulled _____

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
654.75		Floct			2 7/8
660 TD					

Thickness of Strata	Formation	Total Depth	Remarks
0-26	soil-clay	26	
7	Shale	33	
30	Lime	63	
13	Shale	76	
12	Lime	88	
8	Shale	96	
4	Lime	100	
20	Shale	120	
5	Lime	125	
33	Shale	158	
14	Lime	172	
15	Shale	187	
25	Lime	212	
7	Shale	219	
20	Lime	239	
3	Shale	242	
2	Lime	244	
3	Shale	247	
11	Lime	258	Heather
13	Shale	271	
5	Sand	276	slight slow
17	Shale	293	
18	Sand	311	gas odor
144	Shale	455	
13	Lime	468	
7	Shale	475	
7	Lime	482	

482

Thickness of Strata	Formation	Total Depth	Remarks
19	Shale	501	
3	Lime	504	
9	Shale	513	
4	Lime	517	
7	Shale	524	
9	Lime	533	
9	Shale	542	
1	Lime	543	
61	Shale	604	
1	sandy shale	605	
19	core	624	
36	shale	660	page 6 TS

Thickness of Strata	Formation	Total Depth	Remarks
	Cole		
		605	
1	Shale	606	
12	Sand	618	Mostly solid. good show
6	Shale	624	



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# 804651

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-11

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)	90.000	13.5000	46.000	656.10
CC5965	Bentonite	251.000	0.3000	46.000	40.66
CC5326	Sodium Chloride, Salt	189.000	0.7500	46.000	76.55
CC6077	Kolseal	450.000	0.5000	46.000	121.50
CC6128	Mud Flush - C	0.500	50.0000	46.000	13.50
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 4,301.55
 Discounted Amount 1,978.71
 SubTotal After Discount 2,322.84

Amount Due 4,433.67 If paid after 07/28/15

Tax: 71.35
 Total: 2,394.19



3231
3159

Invoice # 804651

TICKET NUMBER 51002
 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
6/12/15	3244	Stahl # AI-11	SW17	16	24	M1
CUSTOMER			TRUCK #			
Alta Vista Energy			729	✓	Cas Ken	✓
MAILING ADDRESS			467	✓	Kei Car	✓
PO Box 128			558	✓	Bro Bir	✓
CITY			369	✓	Art McD	✓
Wellsville			DRIVER			
STATE			TRUCK #			
KS			DRIVER			
ZIP CODE			Safety Meeting			
66092						

JOB TYPE longstring HOLE SIZE 5 7/8" HOLE DEPTH 660' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 654' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 3.79 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 1/2 gal Mud Flush, circulated for 1 hr to condition hole, mixed & pumped 100 # Gel followed by 5 bbls fresh water, mixed & pumped 90 sks 50/50 Pozblend cement w/ 2% gel, 5% salt + 5 # Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing TD w/ 379 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

PKS

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
LE0002	30 mi	MILEAGE	214.50	
CE0711	min	for mileage	1660.00	
WE0853	2 hrs	80 Vac	200.00	
		trucks	2574.50	
		- 46%	1184.27	
		Subtotal		1390.23
CC5840	90 sks	50/50 Pozblend	1215.00	
CC5965	251 #	Gel	75.30	
CC5326	189 #	Salt	141.75	
CC16077	450 #	Kalseal	225.00	
CC16128	1/2 gal	Mud Flush	25.00	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1727.05	
		- 46%	794.44	
		Subtotal		932.61
		7.65%	SALES TAX	71.35
			ESTIMATED TOTAL	2394.19

Revin 3737 AUTHORIZATION Bryan Mills TITLE _____ DATE (4433-67)

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.