

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

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

Commenced Spudding:
 5-20-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 8	Soil - Clay	8
5	Sand Stone	13
2	Lime	15
5	Sand Stone	20
11	Shale	31
7	Lime	38
22	Shale	60
34	Lime	94
15	Shale	109
11	Lime	120
7	Shale	127
5	Lime	132
19	Shale	151
5	Lime	156
37	Shale	193
11	Lime	204
15	Shale	219
25	Lime	244
8	Shale	252
20	Lime	272
3	Shale	275
3	Lime	278
3	Shale	281
10	Shale	291
13	Lime	304
4	Sand	308
13	Shale	321
25	Sandy Shale	346
138	Shale	484
5	Lime	489
2	Shale	491
6	Lime	497
5	Shale	502
10	Lime	512
18	Shale	530
3	Lime	533
10	Shale	543
5	Lime	548
9	Shale	557
6	Lime	563

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-11

Farm Stahl

KS
(State)

Miami
(County)

17
(Section)

16
(Township)

24
(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. A-11
 Elevation 1024
 Commenced Spuding 5-20 20 15
 Finished Drilling 5-22 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 16 24

(Section) (Township) (Range)
 Distance from S line, 2145 ft.
 Distance from E line, 4125 ft.

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

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.
635.05		sect	nipple		
665.35		Baffle			
693		Float		27/8	
700		TD			

Thickness of Strata	Formation	Total Depth	Remarks
0-8	Soil - clay	8	
5	sandstone	13	
2	Lime	15	
5	sandstone	20	
11	shale	31	
7	Lime	38	
22	Shale	60	
34	Lime	94	
15	Shale	109	
11	Lime	120	
7	Shale	127	
5	Lime	132	
19	Shale	151	redbed
5	Lime	156	
37	Shale	193	
11	Lime	204	
15	Shale	219	
25	Lime	244	
8	Shale	252	
20	Lime	272	
3	Shale	275	
3	Lime	278	
3	Shale	281	
10	Lime	291	Hertha
13	Shale	304	
4	sand	308	
13	Shale	321	broken 0.1 - slight show

321

Thickness of Strata	Formation	Total Depth	Remarks
25	Sandy shale	346	
138	Shale	484	
5	Lime	489	
2	Shale	491	
6	Lime	497	
5	Shale	502	
10	Lime	512	
18	Shale	530	
3	Lime	533	
10	Shale	543	
5	Lime	548	
9	Shale	557	
6	Lime	563	
19	Shale	582	
3	Lime	585	
51	Shale	636	
1	sand	637	solid oil - perf page 6
20	core	657	
13	sandy shale	670	
30	Shale	700	TD



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# 804354

Invoice Date: 05/31/15 Terms: Net 30 Page 1

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

STAHL #A-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
CE0710	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)	87.000	13.5000	46.000	634.23
CC5965	Bentonite	246.000	0.3000	46.000	39.85
CC5326	Sodium Chloride, Salt	161.000	0.7500	46.000	65.21
CC6077	Kolseal	435.000	0.5000	46.000	117.45
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 4,156.05
 Discounted Amount 1,911.78
 SubTotal After Discount 2,244.27

Amount Due 4,280.86 If paid after 06/30/15

Tax: 67.40
 Total: 2,311.67



CONSOLIDATED
Oil Well Services, LLC

2974
2901
INVOICE # 804354

TICKET NUMBER 51007
LOCATION Ottawa KS
FOREMAN Fred Maden

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
5-22-15	3244	Stahl # A-11	SW 17	16	24	MI
CUSTOMER			TRUCK #			
Altonista Energy			712			
MAILING ADDRESS			DRIVER			
P.O. Box 128			Fred Mad			
CITY			TRUCK #			
Wellsville			467			
STATE		DRIVER				
KS		Kei Car				
ZIP CODE			TRUCK #			
66092			369			
			DRIVER			
			MikHag			
			TRUCK #			
			558			
			DRIVER			
			Kei Det			

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 700 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 693 DRILL PIPE Baffle TUBING @ 665 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 28' + Plug
 DISPLACEMENT 3.8 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.13 PM

REMARKS: Hold Safety meeting. Establish pump rate. Mix & Pump
100 # 2nd Flush. Mix & Pump 87 SKS ~~57~~ Poz Blend IA (50/50)
Cement 2% Gel 5% Salt 5# Kol Seal/sk. Cement to surface
Flush pump + lines clean. Displace 2 1/2" Rubber plug to
baffle. Pressure to 800+ PSI. Release pressure to set
float valve. Shut in Casing.

Tas Drilling - Wes. Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	467	1500.00
CE0002	30	MILEAGE	467	214.50
CE0710	<u>Mileage</u>	Ten Miles	558	660.00
WE0853	1 1/2 hr	80 BBL Vac Truck	369	150.00
		Sub Total		2524.50
CC5840	87 SKS	Poz Blend IA Cement	1174.50	1174.50
CC5965	246#	Bentonite Gel	73.50	73.50
CC5324	161#	Sodium Chloride	120.75	120.75
CC6077	435#	Kolseal	217.50	217.50
CP8176	1	2 1/2" Rubber Plug	45.00	45.00
		Sub Total	1631.55	1631.55
		Total		4156.05
		Discount (46%)		1911.78
		Total		2244.27
		7.65%	SALES TAX	67.40
			ESTIMATED TOTAL	2311.67

Revin 3737
 AUTHORIZATION Doug TITLE _____ DATE 4280, 86

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.