

Miami County, KS
 Well: Stahl A-13
 Lease Owner: Altavista Energy

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

Commenced Spudding:
 6-9-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 12	Soil - Clay	12
36	Shale	48
29	Lime	77
15	Shale	92
11	Lime	103
8	Shale	111
4	Lime	115
20	Shale	135
5	Lime	140
36	Shale	176
11	Lime	187
15	Shale	202
25	Lime	227
7	Shale	234
20	Lime	254
4	Shale	258
2	Lime	260
2	Shale	262
11	Lime	273
12	Shale	285
5	Sand	290
17	Shale	307
10	Sand	317
35	Sandy Shale	352
118	Shale	470
4	Lime	474
2	Shale	476
7	Lime	483
5	Shale	488
9	Lime	497
18	Shale	515
4	Lime	519
8	Shale	527
6	Lime	533
9	Shale	542
6	Lime	548
70	Shale	618
20	Core	638
10	Sandy Shale	648
52	Shale	700 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-13

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. A-13

Elevation 1015
 Commenced Spuding 6-9 20' 15"
 Finished Drilling 6-10 20' 15"
 Driller's Name Wesley Dollard
 Driller's Name _____
 Driller's Name _____
 Tool Dresser's Name Ryan Ward
 Tool Dresser's Name Cole Holcom
 Tool Dresser's Name _____
 Contractor's Name TOS
 17 16 24

(Section) (Township) (Range)
 Distance from S line, 2475 ft.
 Distance from E line, 4455 ft.
 4 sacks 5 7/8 borehole
 1 core 2 7/8 casing
 9 hrs

**CASING AND TUBING
 RECORD**

10" Set _____ 10" Pulled _____
 8" Set _____ 8" Pulled _____
 7" Set 23 _____ 6 1/4" Pulled _____
 4" Set _____ 4" Pulled _____
 2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
617.	68	Seat nipple			
649.	30	Ballie			
681.	07	Float			
700	TD	27/8			

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8	shale	111	
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20	shale	135	
5	lime	140	
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11	lime	187	
15	shale	202	
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7	shale	234	
20	lime	254	
4	shale	258	
2	lime	260	
2	shale	262	
11	lime	273	
12	shale	285	Here the
5	sand	290	broken-heavy oil
17	shale	307	
10	sand	317	gas odor
35	sandy shale	352	
118	shale	470	
4	lime	474	
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476

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20	Core	638	
10	sandy shale	648	
52	Shale	700	TD

Thickness of Strata	Formation	Total Depth	Remarks
	core		
		618	
.5	shale	618.5	
9.5	sand	628	broken - good show - perf
10	sandy shale	638	



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# 804632

Invoice Date: 06/25/15 Terms: Net 30 Page 1

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

TAHL #A-13

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)	89.000	13.5000	46.000	648.81
CC5965	Bentonite	350.000	0.2200	46.000	41.58
CC5326	Sodium Chloride, Salt	187.000	0.7500	46.000	75.74
CC6077	Kolseal	445.000	0.5000	46.000	120.15
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal 4,260.75
 Discounted Amount 1,959.95
 SubTotal After Discount 2,300.80

Amount Due 4,389.75 If paid after 07/25/15

Tax: 69.66
 Total: 2,370.47



CONSOLIDATED
Oil Well Services, LLC

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

3199 / 3139

TICKET NUMBER 50978
LOCATION Chanute, KS
FOREMAN Casey Kennedy

**FIELD TICKET & TREATMENT REPORT
CEMENT**

Invoice # 804632

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6/10/15	3244	Stahl # A-13	SW 17	16	24	MI
CUSTOMER Atavista Energy			TRUCK #			
MAILING ADDRESS PO Box 128			DRIVER			
CITY Wellsville			TRUCK #			
STATE KS			DRIVER			
ZIP CODE 66092			TRUCK #			
			DRIVER			

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 700' CASING SIZE & WEIGHT 2 3/8" EUE
 CASING DEPTH 681' DRILL PIPE _____ TUBING battle - 649' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 32'
 DISPLACEMENT 3.76 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 89 stb 50/50 Portland cement w/ 2% gel, 5% salt, + 5 # Kalsol per stb, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to battle w/ 3.76 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	mi	ten mileage	160.00	
WEC853	2 hrs	80 Vac	200.00	
		trucks	2574.50	
		-46%	1184.27	
		subtotal		1390.23
4119 CC5840	89 stb	50/50 Portland cement	1201.50	
CC5965	350 #	Gel	77.00	
CC5326	187 #	Salt	140.25	
CC6077	445 #	Kalsol	268.50	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	11686.25	
		-46%	775.68	
		subtotal		910.57
		7.105%		
		SALES TAX		69.66
		ESTIMATED TOTAL		2370.46

Ravin 3737

AUTHORIZATION Bryan Mills TITLE _____ DATE (4389.75)

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.