

Miami County, KS
 Well: Stahl AI-12
 Lease Owner: Altavista Energy

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

Commenced Spudding:
 6-10-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 17	Soil - Clay	17
37	Shale	54
31	Lime	85
14	Shale	99
11	Lime	110
8	Shale	118
5	Lime	123
20	Shale	143
5	Lime	148
34	Shale	182
12	Lime	194
15	Shale	209
24	Lime	233
8	Shale	241
20	Lime	261
4	Shale	265
2	Lime	267
2	Shale	269
11	Lime	280
12	Shale	292
5	Sand	297
11	Shale	308
20	Sand	328
148	Shale	476
5	Lime	481
1	Shale	482
7	Lime	489
7	Shale	496
6	Lime	502
19	Shale	521
4	Lime	525
10	Shale	535
2	Lime	537
11	Shale	548
5	Lime	553
70	Shale	623
16	Core	639
8	Sandy Shale	647
93	Shale	740 TD
	Shale	

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 $BPH \times PSI \times .0004$

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-12

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

Thickness of Strata	Formation	Total Depth	Remarks
0-17	soil-clay	17	
37	Shale	54	
31	Lime	85	
14	Shale	99	
11	Lime	110	
8	Shale	118	
5	Lime	123	
20	Shale	143	
5	Lime	148	
34	Shale	182	
12	Lime	194	
15	Shale	209	
24	Lime	233	
8	Shale	241	
20	Lime	261	
4	Shale	265	
2	Lime	267	
2	Shale	269	
11	Lime	280	Hertha
12	Shale	292	
5	Sand	297	slight show
11	Shale	308	
20	Sand	328	gas odor
148	Shale	476	
5	Lime	481	
1	Shale	482	
7	Lime	489	



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# 804640

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

STAHL # AI-12

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)	92.000	13.5000	46.000	670.68
CC5965	Bentonite	255.000	0.3000	46.000	41.31
CC5326	Sodium Chloride, Salt	193.000	0.7500	46.000	78.17
CC6077	Kolseal	460.000	0.5000	46.000	124.20
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 4,337.75
 Discounted Amount 1,995.37
 SubTotal After Discount 2,342.38

Amount Due 4,472.64 If paid after 07/25/15

Tax: 72.84
 Total: 2,415.23



CONSOLIDATED
Oil Well Services, LLC

3232
3148

TICKET NUMBER 50981
LOCATION Chanute, KS
FOREMAN Casen Kennedy

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

FIELD TICKET & TREATMENT REPORT
CEMENT

INVOICE # 804640

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY			
6/11/15	3244	Stahl # AI-12	SW17	16	24	MI			
CUSTOMER Alta Vista Energy									
MAILING ADDRESS PO Box 128									
CITY Wellsville		STATE KS	ZIP CODE 66092						
		TRUCK #		DRIVER		TRUCK #		DRIVER	
		229		Caskan		Safety		Wadding	
		467		Kei Car					
		558		Ad Mc D					
		369		Mike					

JOB TYPE log string HOLE SIZE 5 7/8" HOLE DEPTH 740' CASING SIZE & WEIGHT 2 7/8" EVE
CASING DEPTH 719' DRILL PIPE _____ TUBING baffle - 688' OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31'
DISPLACEMENT 3.98 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 92 sts 90/50 Pozblend cement w/ 2% gel, 5% salt, + 5 # Kalseal per st, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 3.98 bbls fresh water, pressured to 800 PSI, released pressure, shut-in casing.

1519

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1800.00	
CE0002	30 mi	MILEAGE	214.50	
CE0711	Min	ten mileage	660.00	
WE0853	2 hrs	80 Vac	200.00	
		trucks	2574.80	
		-460.00	1184.27	
		subtotal		1390.23
CC5840	92 sts	90/50 Pozblend	1242.00	
CC5946	255 #	Gel	76.50	
CC5320	193 #	Salt	144.75	
CCL6077	460 #	Kalseal	230.00	
CCL6128	1/2 gal	Mud Flush	25.00	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1763.25	
		-466.00	811.10	
		subtotal		952.15
		7.65%	SALES TAX	72.84
			ESTIMATED TOTAL	2415.23

Revin 3737

AUTHORIZATION Bryan Miller TITLE _____ DATE (4472.64)

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.