

Woodson County, KS
 Well: Strahm West AI-6
 Lease Owner: AltaVista

Town Oilfield Service, Inc.
 (913) 294-2125

Commenced Spudding:
 8/16/2018

WELL LOG

Thickness of Strata	Formation	Total Depth
0-26	Soil-Clay	26
122	Shale	148
20	Lime	168
6	Sand	174
15	Lime	189
3	Shale	192
20	Lime	212
16	Shale	228
134	Lime	362
5	Shale	367
16	Lime	383
54	Lime	437
31	Shale	468
3	Shale & Lime	471
19	Shale	490
2	Lime	492
11	Shale	503
15	Lime	518
2	Shale	520
53	Lime	573
6	Shale	579
23	Lime	602
4	Shale	606
20	Lime	626
2	Shale	628
5	Lime	633
164	Shale	797
7	Lime	804
14	Shale	818
11	Lime	829
5	Shale	834
35	Sand	869
32	Shale	891
2	Lime	893
7	Shale	900
12	Lime	912
8	Shale	920
5	Lime	925
13	Shale	938
8	Lime	946

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-6

Farm Strahn West

KS Woodson
(State) (County)

11 24 16
(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
0-26	soil clay	26	
122	Shale	148	
20	Lime	168	
6	Sand	174	
15	Lime	189	
3	Shale	192	
20	Lime	212	
16	Shale	228	
134	Lime	362	
5	Shale	367	
16	Lime	383	
54	Lime	437	shells
31	Shale	468	sandy
3	Shale & Lime	471	
19	Shale	490	
2	Lime	492	
11	Shale	503	
15	Lime	518	
2	Shale	520	
53	Lime	573	
6	Shale	579	
23	Lime	602	
4	Shale	606	
20	Lime	626	
2	Shale	628	
5	Lime	633	
164	Shale	797	

797

Thickness of Strata	Formation	Total Depth	Remarks
7	Lime	804	
14	Shale	818	
11	Lime	829	
5	Shale	834	
35	Sand	869	grey - no oil
32	Shale	891	
2	Lime	893	
7	Shale	900	
12	Lime	912	
8	Shale	920	
5	Lime	925	
13	Shale	938	
8	Lime	946	
12	Shale	958	
9	Lime	967	
14	Shale	981	
11	Sand	992	odor - no show
20	sandy shale	1012	
1	Lime	1013	
3	Shale	1016	
8	Sand	1024	mostly solid - good oil show TD
96	sandy shale	1120	



REMIT TO
 QES Pressure Pumping 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# 813956

Invoice Date: 08/27/18 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

STRAHM WEST #AI-6

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	45.000	825.00
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	45.000	363.00
WE0853	80 BBL Vacuum Truck (Cement Services)	2.500	100.0000	45.000	137.50
CC5840	Poz-Blend I A (50:50)	137.000	13.5000	45.000	1,017.23
CC5965	Bentonite	330.000	0.3000	45.000	54.45
CC5326	Sodium Chloride, Salt	288.000	1.0000	45.000	158.40
CC6077	Kolseal	685.000	0.5000	45.000	188.38
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	45.000	24.75
CC6128	Mud Flush - C	0.500	50.0000	45.000	13.75

Subtotal 5,059.00
 Discounted Amount 2,276.55
 SubTotal After Discount 2,782.45

Amount Due 5,257.68 If paid after 09/26/18

Tax: 109.27
 Total: 2,891.73



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

11433
11317

TICKET NUMBER 55428
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 813956

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8/22/18	3244	Strahm West # AI-6	NW 11	24	16	WO

CUSTOMER Attaxista Energy
MAILING ADDRESS PO Box 128
CITY Wellsville STATE KS ZIP CODE 66092

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Casken	✓	Safety Meeting
467	Kei Car	✓	
503	Harber	✓	
675	Kei Det	✓	

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 1120' CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 1107' DRILL PIPE _____ TUBING baffle - 1076' OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31'
DISPLACEMENT 6.23 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: hdd safety meeting, established circulation, mixed & pumped 1/2 gal Mud Flosh C Polymer + circulated well to condition hole, mixed & pumped 100 # gel followed by 5 bbls fresh water, mixed & pumped 137 sks Pozblend 1A cement w/ 2% gel, 5% salt, + 5 # Kolsreal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 6.23 bbls fresh water, pressured to 800 PSI, released pressure to set float valve.

[Handwritten signature]

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	—	MILEAGE	—	
CE0711	min	van mileage	660.00	
WE0853	2.5 hrs	80 Vac	250.00	
		trucks	2410.00	
		- 45%	1084.50	
		subtotal		1325.50
CC5840	137 sks	Pozblend 1A cement	1849.50	
CC5965	330 #	Gel	99.00	
CC5326	288 #	Salt	288.00	
CC6074	1085 #	Kolsreal	342.50	
CP8176	1	2 1/2" rubber plug	45.00	
CC6128	1/2 gal	Mud SCANNED	25.00	
		materials	2649.00	
		- 45%	1192.05	
		Subtotal		1456.95
		SCANNED		
		7.5%	SALES TAX	109.27
			ESTIMATED TOTAL	2891.72

AUTHORIZATION Bryan Miller TITLE _____ DATE 8/25/18

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.