

Woodson County, KS  
Well:Section 35 AI-23  
Lease Owner:AltaVista

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

Commenced Spudding:  
8/13/2018

WELL LOG

Thickness of Strata	Formation	Total Depth
0-18	Soil-Clay	18
120	Shale	138
10	Lime	148
9	Sand	157
3	Shale	160
16	Lime	176
1	Shale	177
19	Lime	196
46	Shale	242
97	Lime	339
4	Shale	343
3	Lime	346
3	Shale	349
7	Lime	356
3	Shale	359
4	Lime	363
52	Sandy Lime	415
2	Lime	417
13	Shale	430
4	Sand	434
2	Lime	436
3	Shale	439
4	Lime	443
3	Shale	446
6	Lime	452
19	Sand	471
1	Shale	472
3	Lime	475
6	Shale	481
68	Lime	549
5	Shale	554
22	Lime	576
4	Shale	580
22	Lime	602
2	Shale	604
4	Lime	608
161	Shale	769
4	Lime	773
20	Shale	793
10	Lime	803



# 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-23

Farm Section 35

KS Woodson  
(State) (County)

35 23 16  
(Section) (Township) (Range)

For Alternative Energy inc  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Section 35 Farm: Woodson County  
KS State; Well No. AL-23  
 Elevation 1033  
 Commenced Spudding 8-13 20 18  
 Finished Drilling 8-14 20 18  
 Driller's Name Wesley Dillard  
 Driller's Name Ryan Ward  
 Driller's Name \_\_\_\_\_  
 Tool Dresser's Name \_\_\_\_\_  
 Tool Dresser's Name \_\_\_\_\_  
 Tool Dresser's Name \_\_\_\_\_  
 Contractor's Name TOS  
35 23 14

(Section) (Township) (Range)  
 Distance from S line, 1485 ft.  
 Distance from E line, 1155 ft.

5 sacks  
12 hrs  
5 7/8 bore hole  
2 1/8 casing

**CASING AND TUBING RECORD**

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_  
 8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_  
7 1/8" Set 40 \_\_\_\_\_ 6 1/4" Pulled \_\_\_\_\_  
 4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_  
 2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

**CASING AND TUBING MEASUREMENTS**

Feet	In.	Feet	In.	Feet	In.
1042		3 1/2			
1071				7	1/8
1100		2			

Thickness of Strata	Formation	Total Depth	Remarks
0-18	soil - clay	18	
120	shale	138	
10	lime	148	
9	sand	157	water
3	shale	160	
16	lime	176	
1	shale	177	
19	lime	196	
46	shale	242	
97	lime	339	
4	shale	343	
3	lime	346	
3	shale	349	
7	lime	356	
3	shale	359	
4	lime	363	
52	sandy lime	415	water
2	lime	417	
13	shale	430	
4	sand	434	no oil
2	lime	436	
3	shale	439	
4	lime	443	
3	shale	446	
6	lime	452	
19	sand	471	no oil
1	shale	472	

472

Thickness of Strata	Formation	Total Depth	Remarks
3	Lime	475	
6	Shale	481	
68	Lime	549	
5	Shale	554	
22	Lime	576	
4	Shale	580	
22	Lime	602	
2	Shale	604	
4	Lime	608	
161	Shale	769	
4	Lime	773	
20	Shale	793	
10	Lime	803	
6	Shale	809	
10	Sand	819	no oil
44	Shale	863	
4	Lime	867	
2	Shale	869	
10	Lime	879	
15	Shale	894	
4	Lime	898	
14	Shale	912	
5	Lime	917	
16	Shale	933	
4	Lime	937	
13	Shale	950	
1	Lime	951	

951

Thickness of Strata	Formation	Total Depth	Remarks
5	Shale	956	
11	Sand	967	broken - good saturation
24	sandy shale	991	
1	Lime	992	
10	Sand	1002	mostly solid - good saturation
94	sandy shale	1100	TD



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# 813906

Invoice Date: 08/21/18 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC  
 PO BOX 128  
 WELLSVILLE KS 66092  
 USA  
 7858834057

SECTION 35 #AI-23

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	45.000	825.00
CE0002	Equipment Mileage Charge - Heavy Equipment	40.000	7.1500	45.000	157.30
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	45.000	363.00
WE0853	80 BBL Vacuum Truck (Cement Services)	3.000	100.0000	45.000	165.00
CC5840	Poz-Blend I A (50:50)	130.000	13.5000	45.000	965.25
CC5965	Bentonite	318.000	0.3000	45.000	52.47
CC5326	Sodium Chloride, Salt	273.000	1.0000	45.000	150.15
CC6077	Kolseal	650.000	0.5000	45.000	178.75
CC6128	Mud Flush - C	1.000	25.0000	45.000	13.75
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	45.000	24.75

Subtotal 5,264.40  
 Discounted Amount 2,368.98  
 SubTotal After Discount 2,895.42

Amount Due 5,453.28 If paid after 09/20/18

Tax: 103.88  
 Total: 2,999.30





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

3M - 11380  
PO - 17758  
FT - 11267

TICKET NUMBER 54102  
LOCATION Ottawa, KS  
FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT  
CEMENT

Invoice # 83906

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY			
8/16/18	3244	Section 35 # A1-23	SE 35	23	16	WO			
CUSTOMER Altavista Energy									
MAILING ADDRESS PO Box 128									
CITY Wellsville		STATE KS	ZIP CODE 66092						
		TRUCK #		DRIVER		TRUCK #		DRIVER	
		729		Casken		✓		Safety Meeting	
		467		KeiCar		✓			
		503		AlaMad		✓			
		675		KeiDot		✓			

JOB TYPE longstring HOLE SIZE 5 5/8" HOLE DEPTH 1100' CASING SIZE & WEIGHT 2 7/8" EUE  
CASING DEPTH 1071' DRILL PIPE \_\_\_\_\_ TUBING baffle - 1042' OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 29'  
DISPLACEMENT 6.03 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 1/2 gal Mud Flush C Polymer & circulated to condition hole, mixed & pumped 100 # gel followed by 5 bbls fresh water, mixed & pumped 130 sks Pozblend 1A cement w/ 2% gel, 5% salt, + 5 # Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 6.03 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
CECH50	1	PUMP CHARGE	1500.00	
CE0002	40 mi	MILEAGE	286.00	
CE0711	min	ton mileage	660.00	
WE0853	3 hrs	80 Vac	300.00	
		trucks	2746.00	
		-45%	1235.70	
		subtotal		1510.30
CC5840	130 sks	Pozblend 1A cement	1755.00	
CC5965	318 #	Gel	95.40	
CC5326	273 #	Salt	273.00	
CC6077	650 #	Kalseal	325.00	
CP8746	1	2 1/2" rubber plug	45.00	
CC6128	1/2 gal	Mud Flush C Polymer	25.00	
		materials	2518.40	
		45% SCANNED subtotal	1133.28	
				1385.12
		7.5%	SALES TAX	103.88
			ESTIMATED TOTAL	2999.30
				(5453.28)

Ravin 3737

AUTHORIZATION Bryan Mills TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.