

Woodson County, KS  
Well: Section 35 A-21  
Lease Owner: AltaVista

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

Commenced Spudding:  
7/9/2018

WELL LOG

Thickness of Strata	Formation	Total Depth
0-18	Soil-Clay	18
132	Shale	150
11	Lime	161
10	Sand	171
3	Shale	174
17	Lime	191
2	Shale	193
19	Lime	212
51	Shale	263
91	Lime	354
3	Shale	357
2	Lime	359
5	Shale & Lime	364
7	Lime	371
2	Shale	373
5	Lime	378
52	Sandy Lime	430
1	Shale	431
2	Lime	433
11	Shale	444
5	Sand	449
1	Lime	450
7	Shale	457
3	Sandy Lime	460
3	Shale	463
6	Lime	469
19	Sand	488
3	Lime	491
5	Shale	496
68	Lime	564
6	Shale	570
20	Lime	590
4	Shale	594
27	Lime	621
160	Shale	781
6	Lime	787
16	Shale	803
11	Lime	814
8	Shale	822
10	Sand	832



# 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-21

Farm Section 35

KS Woodson  
(State) (County)

35 23 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
0-18	soil - clay	18	sandy
132	Shale	150	
11	Lime	161	
10	sand	171	water
3	Shale	174	
17	Lime	191	
2	Shale	193	
19	Lime	212	
51	Shale	263	
91	Lime	354	
3	Shale	357	
2	Lime	359	
5	Shale & Lime	364	
7	Lime	371	
2	Shale	373	
5	Lime	378	
52	sandy Lime	430	white - water
1	Shale	431	
2	Lime	433	
11	Shale	444	
5	sand	449	grey - no oil
1	Lime	450	
7	Shale	457	
3	sandy Lime	460	
3	Shale	463	
6	Lime	469	sandy
19	Sand	488	grey - no oil

488

Thickness of Strata	Formation	Total Depth	Remarks
3	Lime	491	
5	Shale	496	
68	Lime	564	
6	Shale	570	
20	Lime	590	
4	Shale	594	
27	Lime	621	Herthg
160	Shale	781	
6	Lime	787	
16	Shale	803	
11	Lime	814	oil show
8	Shale	822	
10	Sand	832	grey - no oil
43	Shale	875	
1	Lime	876	
4	Shale	880	
10	Lime	890	
14	Shale	904	
4	Lime	908	
16	Shale	924	
4	Lime	928	
19	Shale	<del>947</del> 947	
3	Lime	950	
11	Shale	961	
2	Lime	963	
4	Shale	967	
7	Sand	974	broken - good Oil show would make gas well





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# 813640

Invoice Date: 07/18/18 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC  
 PO BOX 128  
 WELLSVILLE KS 66092  
 USA  
 7858834057

SECTION 35 #A-21

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)	2.000	100.0000	45.000	110.00
CC5840	Poz-Blend I A (50:50)	111.000	13.5000	45.000	824.18
CC5965	Bentonite	386.000	0.3000	45.000	63.69
CC5326	Sodium Chloride, Salt	233.000	1.0000	45.000	128.15
CC6077	Kolseal	555.000	0.5000	45.000	152.63
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	45.000	24.75

Subtotal 4,529.80  
 Discounted Amount 2,038.41  
 SubTotal After Discount 2,491.39

Amount Due 4,692.54 If paid after 08/17/18

Tax: 89.50  
 Total: 2,580.90





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

SM-11126  
PO-17374  
FT-11013

TICKET NUMBER 54054  
LOCATION Ottawa, KS  
FOREMAN Casay Kennedy

FIELD TICKET & TREATMENT REPORT  
CEMENT

Invoice # 813640

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7/11/18	3244	Section 35 # A-21	SE35	23	16	WO
CUSTOMER <u>Altavista Energy</u>						
MAILING ADDRESS <u>PO Box 128</u>						
CITY <u>Wellsville</u>		STATE <u>KS</u>	ZIP CODE <u>666092</u>			
		TRUCK #	DRIVER	TRUCK #	DRIVER	
		<u>558</u>	<u>Ala Mad</u>	<u>✓ Safety</u>	<u>Maeting</u>	
		<u>467</u>	<u>Kei Car</u>	<u>✓</u>		
		<u>675</u>	<u>Kei Det</u>	<u>✓</u>		

JOB TYPE longstring HOLE SIZE 5 5/8" HOLE DEPTH 1080' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 1057' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 6.12 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: held safety maeting, established circulation, mixed & pumped 200 # Gel followed by 5 bbls fresh water, mixed & pumped 5 sks Pozblend IA cement w/ 270 gel, 5% salt, + 5 # Kolseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing TD w/ 6.12 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	ten mileage	660.00	
WE0853	2 hrs	80 vac	200.00	
		trucks	2300.00	
		- 45%	1062.00	
		Subtotal		1298.00
CC5840	111 Sk	Pozblend IA cement	1498.50	
CC5965	386 #	Gel	115.80	
CC5326	233 #	Salt	233.00	
CC16077	555 #	Kolseal	277.50	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	2109.80	
		- 45%	976.41	
		Subtotal		1193.39
		<b>SCANNED</b>		
		<u>7-12-AM</u>		
		7.5%	SALES TAX	89.50
			ESTIMATED TOTAL	2580.90
				(4692.54)

Ravin 3737

AUTHORIZATION Bryan Miller 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.