

Woddsen County, KS
Well: Section 35 A-23
Lease Owner: AltaVista

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

Commenced Spudding:
7/13/2018

WELL LOG

Thickness of Strata	Formation	Total Depth
0-20	Soil-Clay	20
135	Shale	155
6	Lime	161
16	Sand	177
2	Shale	179
36	Lime	215
40	Shale	255
106	Lime	361
4	Shale & Lime	365
9	Lime	374
2	Shale	376
3	Lime	379
55	Sandy Lime	434
11	Shale	445
9	Sand	454
3	Shale	457
4	Lime	461
5	Shale	466
6	Lime	472
18	Sand	490
3	Lime	493
6	Shale	499
67	Lime	566
6	Shale	572
21	Lime	593
5	Shale	598
26	Lime	624
160	Shale	784
4	Lime	788
19	Shale	807
9	Lime	816
7	Shale	823
13	Sand	836
45	Shale	881
2	Lime	883
4	Shale	887
10	Lime	897
14	Shale	911
3	Lime	914
17	Shale	931

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 - $\text{RPM} \times d$ over $\text{SPM} \times R$

d - $\text{SPM} \times R \times D$ over RPM

SPM - $\text{RPM} \times D$ over $R \times D$

R - $\text{RPM} \times D$ over $\text{SPM} \times D$

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$

746 WATTS equal 1 HP

Log Book

Well No. A-23

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
0-20	soil-clay	20	sandy
135	Shale	155	
6	Lime	161	water
16	sand	177	
2	Shale	179	
36	Lime	215	
40	Shale	255	
106	Lime	361	
4	Shale & Lime	365	
9	Lime	374	
2	Shale	376	
3	Lime	379	
55	sandy Lime	434	white-water
11	Shale	445	grey-no Oil
9	sand	454	
3	Shale	457	
4	Lime	461	
5	Shale	466	sandy
6	Lime	472	
18	sand	490	grey-no Oil
3	Lime	493	
6	Shale	499	
67	Lime	566	
6	Shale	572	
21	Lime	593	
5	Shale	598	
26	Lime	624	Heath

624

Thickness of Strata	Formation	Total Depth	Remarks
1100	Shale	784	
4	Lime	788	
19	Shale	807	
9	Lime	816	oil show
7	Shale	823	
13	sand	836	grey - no Oil
45	Shale	881	
2	Lime	883	
4	Shale	887	
10	Lime	897	
14	Shale	911	
3	Lime	914	
17	Shale	931	
2	Lime	933	
19	Shale	952	
4	Lime	956	
11	Shale	967	
1	Lime	968	
5	Shale	973	
7	sand	980	broken - odor - dead Oil
25	Sandy shale	1005	
1	Lime	1006	
2	Shale	1008	
15	sand	1023	mostly solid - good saturation
97	Sandy shale	1120	T.D.



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# 813645

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

ALTAVISTA ENERGY INC
 PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

SECTION 35 A-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)	2.500	100.0000	45.000	137.50
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
CC6077	Kolseal	555.000	0.5000	45.000	152.63
CC5325	Calcium Chloride	214.000	1.2500	45.000	147.13
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	45.000	24.75

Subtotal 4,900.30
 Discounted Amount 2,205.14
 SubTotal After Discount 2,695.16

Amount Due 5,065.62 If paid after 08/17/18

Tax: 90.92
 Total: 2,786.10



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

JM-11131
PO-17379
FT-11018

TICKET NUMBER 54069
LOCATION ottawa
FOREMAN Alan Made

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 813645

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-13-14	3244	Section 35 A-23	SE 35	23	16	WD
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Altavista Energy			730	Alan Made	Safety	Meat
MAILING ADDRESS			467	Kei Card		
P.O. Box 128			675	Kei Det		
CITY	STATE	ZIP CODE	558	Cas Ken		
Wellsville	KS	66092				

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 1100 CASING SIZE & WEIGHT 2 7/8
 CASING DEPTH 1092 DRILL PIPE _____ TUBING _____ OTHER BF 1066
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING yes
 DISPLACEMENT 6.2 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm

REMARKS: Weld meeting. Established rate. Mixed & pumped 200 # gel followed by 111 sk Poz Blend IA plus 290 gpm, 590 gpm 5 # hole seal per sack. Circulated cement. Flushed pump. Pumped plug to bottom. Well held 800 PSI, 1.50 ft float.

TOS, WWS

Alan Made

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450		PUMP CHARGE	467	1500.00
CE0002	hd	MILEAGE	467	286.00
CE0711	min	ton miles	558	660.00
WE0853	2VA	80 val	675	250.00
		545	2696.00	
		less 45%	1213.20	1482.80
LL5810	111	Poz Blend IA		1498.50
LL5965	380 #	gel		115.80
CL6077	555	hole seal		277.50
CL5325	214	5919	267.5	214.00
CP8176	1	2 1/2 plug		45.00
		546	2204.3	2150.00
		less 45%	967.94	1482.06
			991.94	1212.36
			7.50	90.92
				1275.62
				275.44
				500.84
				(5065.62)

SCANNED
7-16 AM

Revin 3737

AUTHORIZATION Bryan Miller TITLE _____ DATE _____
 SALES TAX _____ ESTIMATED TOTAL _____

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.