

Miami County, KS
 Well: Owen AI-53
 Lease Owner: Altavista Energy

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

Commenced Spudding:
 1/21/2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 1	Soil - Clay	1
11	Lime	12
17	Shale	29
6	Lime	35
40	Shale	75
15	Lime	90
8	Shale	98
29	Lime	127
9	Shale	136
22	Lime	158
5	Shale	163
3	Lime	166
3	Shale	169
4	Lime	173
13	Shale	186
45	Sand & Sandy Shale	231
44	Shale	275
6	Sand	281
28	Shale	309
7	Sandy Lime	316
13	Sandy Shale	329
3	Shale	332
11	Lime	343
4	Shale	347
13	Sand	360
10	Sandy Shale	370
22	Shale	392
8	Lime	400
10	Shale	410
3	Lime	413
13	Shale	426
8	Lime	434
20	Shale	454
2	Lime	456
4	Shale	460
7	Lime	467
3	Shale	470
17	Lime	487
20	Sandy Shale	507
33	Shale	540

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-53

Farm Owen

KS Miami
(State) (County)

8 18 22
(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
0-1	Soil-clay	1	
11	Lime	12	
17	Shale	29	
6	Lime	35	
40	Shale	75	redbed
15	Lime	90	
8	Shale	98	
29	Lime	127	
9	Shale	136	
22	Lime	158	
5	Shale	163	slate
3	Lime	166	
3	Shale	169	
4	Lime	173	Heitha
13	Shale	186	
45	sand & sandy shale	231	no oil
44	Shale	275	
6	Sand	281	no oil
28	Shale	309	
7	sandy Lime	316	color - no show
13	sandy shale	329	
3	Shale	332	
11	Lime	343	
4	Shale	347	
13	sand	360	some sandy shale - no oil
10	sandy shale	370	
22	Shale	392	

392

Thickness of Strata	Formation	Total Depth	Remarks
8	Lime	400	
10	Shale	410	
3	Lime	413	
13	Shale	426	
8	Lime	434	
20	Shale	454	red bed
2	Lime	456	
4	Shale	460	
7	Lime	467	
3	Shale	470	
17	sand	487	color - no show
20	sandy shale	507	
33	Shale	540	
13	sandy shale	553	
26	Shale	579	
1	sand	580	grey - no oil
18	sand	598	mostly solid - good show - part
27	Shale	625	
55	sand	680	water - TD



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# 803108

Invoice Date: 01/26/15 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 4595 K-33 HIGHWAY **PO.Box128**
 WELLSVILLE KS 66092
 USA
 7858834057

OWEN #AI-53

Part No	Description	Quantity	Unit Price	Discount(%)	Total
5401	Cement Pumper	1.000	1,085.0000	0.000	1,085.00
5406	Mileage Charge	25.000	4.2000	0.000	105.00
5402	Casing Footage	665.000	0.0000	0.000	0.00
5407	Min. Bulk Delivery Charge	1.000	368.0000	0.000	368.00
5502C	80 Vacuum Truck Cement	2.000	100.0000	0.000	200.00
1124	Poz Cement Mix	91.000	11.5000	30.000	732.55
1118B	Premium Gel / Bentonite	253.000	0.2200	30.000	38.96
1111	Sodium Chloride (Granulated Salt)	191.000	0.3900	30.000	52.14
1110A	Kol Seal (50# BAG)	455.000	0.4600	30.000	146.51
4402	2 1/2 Rubber Plug	1.000	29.5000	0.000	29.50
1401	HE 100 Polymer	0.500	47.2500	0.000	23.63

Subtotal 3,197.08
 Discounted Amount 415.79
 SubTotal After Discount 2,781.29

Amount Due 3,307.16 If paid after 02/25/15

Tax: 78.28
 Total: 2,859.57



CONSOLIDATED
Oil Well Services, LLC

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

FIELD TICKET & TREATMENT REPORT
CEMENT

1884

TICKET NUMBER 50764
LOCATION Ottawa, KS
FOREMAN Cathy Kennedy

Invoice # 803103 / 1834

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1/20/15	3244	Owen # AT-53	NE 8	18	22	MI
CUSTOMER Atavista Energy			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS PO Box 128			729 Casen ✓ Safety Meeting			
CITY STATE ZIP CODE Wellsville KS 66720			666 Kei Car ✓			
			558 Brubir ✓			
			675 Kei Det ✓			

JOB TYPE Logging HOLE SIZE 5 5/8" HOLE DEPTH 1080' CASING SIZE & WEIGHT 2 7/8"
CASING DEPTH 1065' DRILL PIPE _____ TUBING baffle - 633' OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32'
DISPLACEMENT 3.66 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 1/2 gal polymer, circulated for 1hr to condition hole, mixed & pumped 100 # Gel followed by 10 bbls fresh water, mixed & pumped 91' 5/8 50% Pozmix cement w/ 2% gel, 5% salt & 5 # Kolseal per 8k, cement to surface, flushed pump clean pumped 2 1/2" rubber plug to casing TD w/ 3.66 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

Handwritten signature/initials

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1685.00
5406	25 mi.	MILEAGE		105.00
5402	665'	casing footage		
5407	minimum	ton mileage		366.00
5502c	2 hrs	80 Vac		200.00
1124	91 sbs	50% Pozmix cement	1046.50	
1188	253 #	Gel	55.66	
1111	191 #	Salt	74.49	
1116A	455 #	Kolseal	209.30	
		materials	1385.95	
		30%	415.79	
		subtotal		970.16
4402	1	2 1/2" rubber plug		29.50
1401	1/2 gal	Polymer		23.63
				3307.17
		7.65%	SALES TAX	78.28
			ESTIMATED TOTAL	2859.57

completed

Revin 3737 AUTHORIZATION Jim Tracy TITLE supervisor DATE 1-22-15

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.