

Miami County, KS  
 Well: Owen AI-61  
 Lease Owner: Altavista Energ

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

Commenced Spudding:  
 1/16/2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0-11	Soil - Clay	11
19	Lime	30
11	Shale	41
4	Lime	45
39	Shale	84
14	Lime	98
10	Shale	108
29	Lime	137
7	Shale	144
24	Lime	168
5	Shale	173
2	Lime	175
3	Shale	178
5	Lime	183
23	Shale	206
42	Sand & Sandy Shale	248
69	Shale	317
8	Sandy Lime	325
16	Shale	341
10	Lime	351
3	Shale	354
6	Sand	360
16	Sandy Shale	376
24	Shale	400
7	Lime	407
13	Shale	420
3	Lime	423
13	Shale	436
8	Lime	444
21	Shale	465
2	Lime	467
2	Shale	469
8	Lime	477
4	Shale	481
10	Sand	491
9	Sandy Shale	500
50	Shale	550
24	Sand & Sandy Shale	574
6	Shale	580
2	Lime	582



# Short Cuts

## TANK CAPACITY

BBLs. (42 gal.) equals  $D^2 \times 14xh$

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-61

Farm Owen

KS Miami  
(State) (County)

8 18 22  
(Section) (Township) (Range)

For Aitavista Energy inc  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East  
Louisburg, KS 66053  
913-710-5400

Owen Farm: Miami County

KS State; Well No. AI-61

Elevation 907

Commenced Spuding 1-16 20 15

Finished Drilling 1-19 20 15

Driller's Name Wesley Dillard

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

8 18 22

(Section) (Township) (Range)

Distance from S line, 3895 ft.

Distance from E line, 2110 ft.

4 sacks Bonus well

8 hrs

5 7/8 Bore hole

2 7/8 casing

CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_
8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_
7 1/2" Set 20 6 1/2" Pulled \_\_\_\_\_
4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_
2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

CASING AND TUBING MEASUREMENTS

Table with 6 columns: Feet, In., Feet, In., Feet, In. Handwritten entries include 634.50, 666.30, 680 TD, and 2 7/8.

Thickness of Strata	Formation	Total Depth	Remarks
0-11	soil-clay	11	
19	Lime	30	
11	Shale	41	
4	Lime	45	
39	Shale	84	redbed
14	Lime	98	
10	Shale	108	
29	Lime	137	
7	Shale	144	
24	Lime	168	
5	Shale	173	slate
2	Lime	175	
3	Shale	178	
5	Lime	183	Heathy
23	Shale	206	
42	sand & sandy shale	248	no Oil
69	Shale	317	
8	sandy lime	325	odor - no show
16	shale	341	
10	Lime	351	
3	shale	354	
6	sand	360	no Oil
16	sandy shale	376	
24	Shale	400	
7	Lime	407	
13	Shale	420	
3	Lime	423	

423

Thickness of Strata	Formation	Total Depth	Remarks
13	Shale	436	
8	Lime	444	
21	Shale	465	
2	Lime	467	
2	Shale	469	
8	Lime	477	
4	Shale	481	
10	sand	491	broken Oil - OK show
9	sandy shale	500	
50	Shale	550	
24	sand & sandy shale	574	
6	shale	580	
2	Lime	582	
4	shale	586	coal
1	sand	587	no oil
15	sand	602	solid oil - good show
27	shale	629	
51	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#

803114

Invoice Date: 01/26/15

Terms: Net 30

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ALTAVISTA ENERGY INC  
 4595 K-33 HIGHWAY **PO-Box 128**  
 WELLSVILLE KS 66092  
 USA  
 7858834057

OWEN #AI-61

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	666.000	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	89.000	11.5000	30.000	716.45
1118B	Premium Gel / Bentonite	250.000	0.2200	30.000	38.50
1111	Sodium Chloride (Granulated Salt)	187.000	0.3900	30.000	51.05
1110A	Kol Seal (50# BAG)	445.000	0.4600	30.000	143.29
4402	2 1/2 Rubber Plug	1.000	29.5000	0.000	29.50

Subtotal 3,143.63  
 Discounted Amount 406.84  
 SubTotal After Discount 2,736.79

Amount Due 3,249.63 If paid after 02/25/15

Tax: 74.88

Total: 2,811.67



**CONSOLIDATED**  
Oil Well Services, LLC

1885  
1829

TICKET NUMBER 50762

LOCATION Ottawa, KS

FOREMAN Cary Kennedy

**INVOICE # 80314**  
**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1/19/15	3249	Owen # AI-101	NE 8	18	22	M1
CUSTOMER <u>Altavista Energy</u>			TRUCK #			
MAILING ADDRESS <u>PO Box 128</u>			DRIVER			
CITY <u>Wellsville</u>		STATE <u>KS</u>	ZIP CODE <u>66092</u>	TRUCK #		
				DRIVER		

JOB TYPE <u>log string</u>	HOLE SIZE <u>5 5/8"</u>	HOLE DEPTH <u>1080'</u>	CASING SIZE & WEIGHT <u>2 7/8" EUE</u>
CASING DEPTH <u>666'</u>	DRILL PIPE	TUBING <u>666' - 634'</u>	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>32'</u>
DISPLACEMENT <u>3.67 bbls</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>4.5 bpm</u>

REMARKS: hold safety meeting, established circulation, mixed & pumped 1/2 gal Polymer, circulated for 1 hr to condition hole, mixed & pumped 100 # Gel, followed by 10 bbls fresh water, mixed & pumped 89 sks 50% Pozmix cement w/ 2% gel, 5% salt, + 5 # Kalsol per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle, w/ 3-67 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

*PKG*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00
5406	25 mi	MILEAGE		105.00
5402	666'	casing footage		
5407	minimum	ton mileage		368.00
5500C	2 hrs	80 Vac		200.00
1124	89 sks	50% Pozmix cement	1023.50	
1118B	250 #	Gel	55.00	
111	187 #	Salt	72.93	
1110A	445 #	Kalsol	204.70	
		materials	1356.13	
		-30%	406.84	
		subtotal		949.29
4402	1	2 1/2" Rubber Plug		29.50
			3217.87	
			7.65%	74.88
			ESTIMATED TOTAL	2811.67

Ravin 3737

*Byron Miller*

ENTERED JAN 23 2015

AUTHORIZATION \_\_\_\_\_ 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.