

Miami County, KS  
 Well: Owen A-51  
 Lease Owner: Altavista

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

Commenced Spudding:  
 8/29/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 11	Soil - Clay	11
7	Shale	18
5	Lime	23
38	Shale	61
15	Lime	76
9	Shale	85
30	Lime	115
9	Shale	124
22	Lime	146
5	Shale	151
2	Lime	153
4	Shale	157
5	Lime	162
22	Shale	184
42	Sand	226
38	Shale	264
4	Sand	268
29	Shale	297
8	Sandy Lime	305
9	Sandy Shale	314
5	Shale	319
11	Lime	330
4	Shale	334
19	Sand	353
28	Shale	381
7	Lime	388
10	Shale	398
3	Lime	401
14	Shale	415
9	Lime	424
17	Shale	441
2	Lime	443
5	Shale	448
7	Lime	455
3	Shale	458
18	Sand	476
18	Sandy Shale	494
75	Shale	569
1	Sandy Shale	570
4	Sand	574



# 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. A-51

Farm OWen

KS Miami  
(State) (County)

8 KB 22  
(Section) (Township) (Range)

For Alta Vista 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. A-51

Elevation 884

Commenced Spuding Aug 29 2014

Finished Drilling Sept 4 2014

Driller's Name Wesley Dolled

Driller's Name

Driller's Name

Tool Dresser's Name Kenny Gunn

Tool Dresser's Name Ethan Medlen

Tool Dresser's Name

Contractor's Name TOS

8 18 22

(Section) (Township) (Range)

Distance from S line, 5115 ft.

Distance from E line, 3135 ft.

4 sacks

10 hrs

### CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_  
8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_  
7 1/4" Set 24 6 1/4" Pulled \_\_\_\_\_  
4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_  
2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

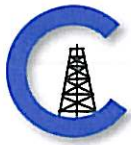
### CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
569	-	Seat	ripple		
600	.75	Bit	tie		
632	.60	Float		2 7/8	

Thickness of Strata	Formation	Total Depth	Remarks
0-11	soil-clay	11	
7	shale	18	
5	Lime	23	
38	Shale	61	
15	Lime	76	redbed
9	shale	85	
30	Lime	115	
9	shale	124	
22	Lime	146	
5	shale	151	
2	Lime	153	
4	shale	157	
5	Lime	162	
22	shale	184	Hertha
42	sand	226	
38	shale	264	sandy shale - no oil
4	sand	268	
29	shale	297	no oil
8	sandy Lime	305	
9	sandy shale	314	gclor - no show
5	shale	319	
11	Lime	330	
4	shale	334	
19	sand	353	
28	shale	381	sandy shale - no oil
7	Lime	388	
10	shale	398	

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Thickness of Strata	Formation	Total Depth	Remarks
3	Lime	401	
14	Shale	415	
9	Lime	424	
17	Shale	441	
2	Lime	443	
5	Shale	448	
7	Lime	455	
3	Shale	458	
18	Sand	476	broken - slight show
18	sandy shale	494	
75	shale	569	
1	sandy shale	570	
4	sand	574	broken
12	sand	586	mostly solid
3	sand	589	broken
1	sandy shale	590	good show part
24	shale	614	
46	sand	660	water - TD



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 270902

Invoice Date: 09/10/2014 Terms: 0/30/10,n/30

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ALTAVISTA ENERGY INC  
4595 K-33 HIGHWAY  
P.O. BOX 128  
WELLSVILLE KS 66092  
(785) 883-4057

OWENS A-51  
48163  
NE8-18-22  
9-4-14  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	79.00	11.5000	908.50
1118B	PREMIUM GEL / BENTONITE	233.00	.2200	51.26
1111	SODIUM CHLORIDE (GRANULA	153.00	.3900	59.67
1110A	KOL SEAL (50# BAG)	395.00	.4600	181.70
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-360.34

Description	Hours	Unit Price	Total
368 CEMENT PUMP	1.00	1085.00	1085.00
368 EQUIPMENT MILEAGE (ONE WAY)	25.00	4.20	105.00
368 CASING FOOTAGE	632.00	.00	.00
369 80 BBL VACUUM TRUCK (CEMENT)	1.50	100.00	150.00
558 MIN. BULK DELIVERY	1.00	368.00	368.00

Amount Due 3032.77 if paid after 09/20/2014

Parts:	1230.63	Freight:	.00	Tax:	66.57	AR	2644.86
Labor:	.00	Misc:	.00	Total:	2644.86		
Sublt:	-360.34	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_

Date \_\_\_\_\_

BARTLESVILLE, OK  
918/338-0808

EL DORADO, KS  
316/322-7022

EUREKA, KS  
620/583-7664

PONCA CITY, OK  
580/762-2303

OAKLEY, KS  
785/672-8822

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

GILLETTE, WY  
307/686-4914

CUSHING, OK  
918/225-2650



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

270 902

TICKET NUMBER 48163  
LOCATION Ottawa  
FOREMAN Alan Mader

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-4-14	3244	Owens A-51	NE 8	18	22	Mi.
CUSTOMER Altagista Energy			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. Box 128			730	Ala. Mad.	Safety	Maet
CITY Wellsville	STATE KS	ZIP CODE 66092	368	Ar. Mad.		
			369	Mik Dag		
			558	Bru Bir		

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 660 CASING SIZE & WEIGHT 2 1/2  
 CASING DEPTH 632 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER bf 601  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING yes  
 DISPLACEMENT 349 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm

REMARKS: Held meeting. Established rate. Mixed & pumped 100# gel followed by 79 sk 50/50 cement plus 5% salt, 2% gel, 5# Kol seal per sack. Circulated cement. Flushed pump. Pumped plug to baffle well held 800 PSI. Set float.

JOS, Wes  
Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1085.00 ✓
5406	25	MILEAGE	368	105.00 ✓
5402	632	casing footage	368	— ✓
5407	min	ton miles	558	368.00 ✓
5502L	1 1/2	80 var	369	150.00 ✓
1124	79	50/50 cement	908.50	✓
1118B	233#	gel	51.26	✓
1111	153#	salt	59.67	✓
1110A	395#	Kol seal	181.70	✓
		material sub	1021.13	
		less 30% -	360.34	✓
		material total	840.79	
4402	1	2 1/2 plug		29.50 ✓
			3032.77	

SALES TAX 66.59  
ESTIMATED TOTAL 2644.86 ✓  
 AUTHORIZATION J.M. OKD TITLE \_\_\_\_\_ DATE \_\_\_\_\_

completed

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.