

Miami County, KS  
Well: East Goetz AI-51  
Lease Owner: Altavista

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

Commenced Spudding:  
9/23/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 5	Soil - Clay	5
13	Lime	18
11	Shale	29
5	Lime	34
42	Shale	76
15	Lime	91
10	Shale	101
29	Lime	130
7	Shale	137
19	Lime	156
4	Shale	160
4	Lime	164
2	Shale	166
6	Lime	172
28	Shale	200
14	Sand	214
24	Sandy Shale	238
41	Shale	279
5	Sand	284
28	Shale	312
5	Shale & Lime	317
18	Shale	335
14	Lime	349
48	Shale	397
6	Lime	403
12	Shale	415
3	Lime	418
14	Shale	432
8	Lime	440
19	Shale	459
2	Lime	461
4	Shale	465
7	Lime	472
4	Shale	476
18	Sand	494
89	Shale	583
2	Sand	585
3	Sand	588
7	Sand	595
8	Sand	603



# 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. AI-51

Farm East Goetz

KS Miami  
(State) (County)

9 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
0-5	soil-clay	5	
13	Lime	18	
11	Shale	29	
5	Lime	34	
42	Shale	76	
15	Lime	91	
10	Shale	101	
29	Lime	130	
7	Shale	137	
19	Lime	156	
4	Shale	160	
4	Lime	164	
2	Shale	166	
6	Lime	172	Hertha
28	Shale	200	
14	sand	214	no Oil
24	sandy shale	238	
41	Shale	279	
5	sand	284	no Oil
28	Shale	312	
5	shale & Lime	317	
18	Shale	335	
14	Lime	349	
48	Shale	397	
6	Lime	403	
12	Shale	415	
3	Lime	418	





**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 # 271519

Invoice Date: 09/30/2014 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

E GOETZ AI-51  
48244  
NW9-18-22  
9-24-14  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	80.00	11.5000	920.00
1118B	PREMIUM GEL / BENTONITE	134.00	.2200	29.48
1111	SODIUM CHLORIDE (GRANULA	155.00	.3900	60.45
1110A	KOL SEAL (50# BAG)	400.00	.4600	184.00
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50
1401	HE 100 POLYMER	.50	47.2500	23.63

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-358.18

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	665.00	.00	.00
370 80 BBL VACUUM TRUCK (CEMENT)	2.00	100.00	200.00
503 MIN. BULK DELIVERY	1.00	368.00	368.00

Amount Due 3100.47 if paid after 10/10/2014

Parts:	1247.06	Freight:	.00	Tax:	68.01	AR	2714.89
Labor:	.00	Misc:	.00	Total:	2714.89		
Sublt:	-358.18	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_ Date \_\_\_\_\_



**CONSOLIDATED**  
Oil Well Services, LLC

271519

TICKET NUMBER 48244  
LOCATION Ottawa  
FOREMAN Alan Mader

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

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-24-14	3244	E. Goetz AI-51	NW 9	18	22	Mi
CUSTOMER Altavista Energy			TRUCK #			
MAILING ADDRESS P. O. Box 128			DRIVER			
CITY Wellsville			TRUCK #			
STATE KS			DRIVER			
ZIP CODE 66092			TRUCK #			
			DRIVER			

JOB TYPE Long stringhole HOLE SIZE 5 7/8 HOLE DEPTH 680 CASING SIZE & WEIGHT 2 7/8  
CASING DEPTH 665 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER 6 1/2 6.33  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING yes  
DISPLACEMENT 3.7 DISPLACEMENT PSI 800 MIX PSI 800 RATE 4 bpm

REMARKS: Held meeting. Established rate. Mixed & pumped 1/2 gal polymer & re. circulated well into new pit. Mixed & pumped 80 sk 50150 cement plus 29 gal, 5% salt & 3 # Kol seal per sack. Circulated cement. Flushed pump. Pumped plug to bottom. Well held 800 PSI. Set float.

Wes, TOS

*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	10500.00 ✓
5402	665	casing footage	365	242725.00 ✓
5407	min	ton miles	503	36800.00 ✓
5502C	2	80 vac	370	200.00 ✓
1124	80	50150 cement	920.00 ✓	
1118B	134#	gel	29.48 ✓	
1111	155	salt	60.45 ✓	
1104	400	Kol seal	184.00 ✓	
		Material sub	1193.93 ✓	
		less 30% -	358.18 ✓	
		Material total		835.75 ✓
4402	1	2 1/2 plus		29.50 ✓
1401	1/2	polymer		23.63 ✓
			3100.46	
		SALES TAX		68.00 ✓
		ESTIMATED TOTAL		2714.88 ✓
				2714.89 ✓

AUTHORIZATION Byron Mills 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.