

Douglas County, KS  
 Well: Baldwin Unit AI-27  
 Lease Owner: Altavista

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

Commenced Spudding:  
 11/13/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
0-50	soil/clay	50
5	lime	55
137	shale	192
4	lime	196
8	shale	204
14	lime	218
8	shale	226
7	lime	233
5	shale	238
23	lime	261
30	sandy shale	291
17	lime	308
20	sandy shale	328
582	shale	380
22	lime	402
19	shale	421
7	lime	428
14	shale	442
8	sandy shale	450
18	lime	468
17	shale	485
22	lime	507
7	shale	514
24	lime	538
5	shale	543
4	lime	547
3	shale	550
7	lime	557
171	shale	728
5	lime	733
17	shale	750
5	lime	755
18	shale	773
3	lime	776
40	shale	816
1	lime	817
4	shale	821
5	sandy shale	826
2	sand and lime	828
24	sand	852



# 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-27

Farm Baldwin Unit

KS Douglas  
(State) (County)

1 15 20  
(Section) (Township) (Range)

For Altavista Energy  
(Well Owner)

## Town Oilfield Services, Inc.

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



Thickness of Strata	Formation	Total Depth	Remarks
0-50	soil-clay	50	
5	Lime	55	
137	shale	192	
4	Lime	196	
8	shale	204	
14	Lime	218	
8	shale	226	
7	Lime	233	
5	shale	238	
23	Lime	261	shells
30	sandy shale	291	
17	Lime	308	
20	sandy shale	328	
52	shale	380	
22	Lime	402	
19	shale	421	
7	Lime	428	
14	shale	442	
8	sand	450	no oil
18	Lime	468	
17	shale	485	
22	Lime	507	
7	shale	514	
24	Lime	538	
5	shale	543	
4	Lime	547	
3	shale	550	





**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 # 264010

Invoice Date: 11/18/2013 Terms: 0/0/30,n/30

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

BALDWIN UNIT AI-27  
44778  
SE 2-15-20  
11-14-2013  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	139.00	11.5000	1598.50
1118B	PREMIUM GEL / BENTONITE	434.00	.2200	95.48
1111	SODIUM CHLORIDE (GRANULA	269.00	.3900	104.91
1110A	KOL SEAL (50# BAG)	695.00	.4600	319.70
1401	HE 100 POLYMER	.50	47.2500	23.63
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

Description	Hours	Unit Price	Total
369 80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00
558 MIN. BULK DELIVERY	1.00	368.00	368.00
666 CEMENT PUMP	1.00	1085.00	1085.00
666 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.20	84.00
666 CASING FOOTAGE	948.00	.00	.00

Parts: 2171.72 Freight: .00 Tax: 155.28 AR 4044.00  
 Labor: .00 Misc: .00 Total: 4044.00  
 Sublt: .00 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



264010

TICKET NUMBER 44778  
 LOCATION Atchua, KS  
 FOREMAN Casey Kennedy

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
11/14/13	3244	Baldwin Unit #A1-27	SE 2	15	20	DG

CUSTOMER  
Altavista Energy  
 MAILING ADDRESS  
Po Box 128  
 CITY  
Wellsville STATE  
KS ZIP CODE  
666092

TRUCK #	DRIVER	TRUCK #	DRIVER
<del>729</del>	<del>Casken</del>	✓	Safety Meeting
666	Carl Moo	✓	
558	Mat Coc	✓	
369	Der Mas	✓	

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 960' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 948' DRILL PIPE \_\_\_\_\_ TUBING batlle - 917' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 31'  
 DISPLACEMENT 5.31 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 1/2 gal Polymer, circulated well for 1hr to condition hole, mixed & pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 139 sts 50/50 Pozmix cement w/ 2% gel, 5% salt, & 5 # Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to batlle w/ 5.31 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

*Handwritten signature*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00 ✓
5406	20 mi	MILEAGE		84.00 ✓
5402	948'	casing footage		— ✓
5407	minimum	ton mileage		368.00 ✓
5502C	2 hrs	80 Vac ✓		180.00 ✓
1124	139 sts	50/50 Pozmix cement		1598.50 ✓
1118B	434 #	Premium Gel		95.48 ✓
1111	269 #	Salt		104.91 ✓
1110A	695 #	Kalseal		319.70 ✓
1401	1/2 gal	Polymer		23.63 ✓
4402	1	2 1/2" rubber plug		27.50 ✓
<input checked="" type="checkbox"/> completed				
			7.15%	SALES TAX
				ESTIMATED TOTAL
				4044.00 ✓

Revin 3737

AUTHORIZATION Bryan Miller 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 for