

Douglas County, KS
 Well: AI-23
 Lease Owner: Altavista Energy

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

Commenced Spudding:
 11/18/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
0-14	soil-clay	14
1	lime	15
8	shale	23
4	lime	27
140	shale	167
5	lime	172
3	shale	175
2	lime	177
2	shale	179
16	lime	195
7	shale	202
6	lime	208
6	shale	214
24	lime	238
25	sandy shale	263
18	lime	281
20	sandy shale	301
53	shale	354
22	lime	376
19	shale	395
7	lime	402
13	shale	415
10	sandy shale	425
18	lime	443
17	shale	460
26	lime	486
6	shale	492
24	lime	516
4	shale	520
4	lime	524
3	shale	527
7	lime	534
168	shale	702
7	lime	709
6	shale	715
3	lime	718
6	shale	724
6	lime	730
17	shale	747
4	lime	751

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-23

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
0-14	soil-clay	14	
1	Lime	15	
8	shale	23	
4	Lime	27	
140	shale	167	
5	Lime	172	
3	shale	175	
2	Lime	177	
2	shale	179	
16	Lime	195	
7	shale	202	
6	Lime	208	
6	shale	214	
24	Lime	238	shells
25	sandy shale	263	
18	Lime	281	
20	sandy shale	301	
53	shale	354	
22	Lime	376	
19	shale	395	
7	Lime	402	
13	shale	415	
10	sand	425	no oil
18	Lime	443	
17	shale	460	
26	Lime	486	
6	shale	492	

492

Thickness of Strata	Formation	Total Depth	Remarks
24	Lime	516	
4	Shale	520	
4	Lime	524	
3	Shale	527	
7	Lime	534	
16 1/2	Shale	702	Hesthe
7	Lime	709	
6	Shale	715	
3	Lime	718	
6	Shale	724	
6	Lime	730	
17	Shale	747	
4	Lime	751	
45	Shale	796	
1	Lime	797	
5	Shale	802	
8	sandy shale	810	
10	Sand	820	
6	sandy shale	826	brown - odor - no show
11	Sand	837	
2	Sand & sandy lime	839	solid - poor saturation
2	sandy lime	841	no oil
2	sand & sandy lime	843	
6	Sand	849	solid - poor saturation
8	Sand	857	solid - good saturation
8	Sand	865	black - dead oil
95	Shale	960	TSS

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perf bottom⁵ 10 ft



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 # 264162

Invoice Date: 11/22/2013 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-23
44826
SE 1-15-20
11-19-2013
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	127.00	11.5000	1460.50
1118B	PREMIUM GEL / BENTONITE	413.00	.2200	90.86
1111	SODIUM CHLORIDE (GRANULA	245.00	.3900	95.55
1110A	KOL SEAL (50# BAG)	635.00	.4600	292.10
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50
1401	HE 100 POLYMER	.50	47.2500	23.63

Description	Hours	Unit Price	Total
370 80 BBL VACUUM TRUCK (CEMENT)	2.50	90.00	225.00
510 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: 1992.14 Freight: .00 Tax: 142.45 AR 3896.59
 Labor: .00 Misc: .00 Total: 3896.59
 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



CONSOLIDATED
Oil Well Services, LLC

264162

TICKET NUMBER 44826

LOCATION Ottawa, 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
11/19/13	3244	Baldwin Unit #AT-23	SE1	15	20	D6
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Attavista Energy			729	Carlen	✓ Safety Meeting	
MAILING ADDRESS			6666	Gar Moo	✓	
PO Box 128			510	Set Tex	✓	
CITY	STATE	ZIP CODE	370	Kei Car	✓	
Wellsville	KS	666092				

JOB TYPE Logging HOLE SIZE 5 5/8" HOLE DEPTH _____ CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 948' DRILL PIPE _____ TUBING baffle - 916' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 32'
 DISPLACEMENT 5.30 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.5 bpm

REMARKS: hold safety meeting, established circulation, mixed & pumped 1/2 gal Polymer, circulated well for 1 hr to condition hole, mixed & pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 127 sks 50/50 Pozmix cement w/ 220 gal, 5% salt, & 5 # Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 5.30 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	ten mileage		368.00 ✓
5502C	2.5 hrs	80 Ucc		225.00 ✓
1124	127 sks	50/50 Pozmix cement		1460.50 ✓
1118B	413 #	Premium Gel		90.86 ✓
1111	245 #	SALT		95.55 ✓
1110A	635 #	Kalseal		292.10 ✓
4402	1	2 1/2" rubber plug		29.50 ✓
1401	1/2 gal	Polymer		23.63 ✓
			7.15%	SALES TAX
				ESTIMATED
				TOTAL
				142.45 ✓
				3896.59 ✓

Completed

Revin 3737

AUTHORIZATION No Co. Rep on location 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