

Douglas County, KS  
Well: Early A-3  
Lease Owner: Altavista

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

Commenced Spudding:  
04/07/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-4	soil-clay	4
62	sand	66
1	lime	67
8	shale	75
6	shale and lime	51
137	shale	218
5	lime	223
3	sand and sandy shale	226
1	lime	227
3	shale	230
14	lime	240
7	shale	251
7	lime	258
8	shale	265
20	lime	285
23	shale	308
4	sand and sandy shale	312
19	lime	331
4	shale	335
7	sand	342
62	shale	404
22	lime	426
18	shale	444
6	lime	450
16	shale	466
6	sandy shale	472
18	lime	490
6	shale	496
3	shale and lime	499
11	shale	510
6	lime	516
2	lime	518
1	shale	519
13	lime	532
10	shale	542
22	lime	564
4	shale	568
4	lime	572
4	shale	576
5	lime	581



# 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. A-3

Farm Early

KS Douglas  
(State) (County)

11 15 20  
(Section) (Township) (Range)

For Altavista  
(Well Owner)

## Town Oilfield Services, Inc.

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

Early Farm: Douglas County  
 KS State; Well No. A-3

Elevation 1043

Commenced Spuding 04/07 2014

Finished Drilling 04/08 2014

Driller's Name Greg Perry

Driller's Name \_\_\_\_\_

Driller's Name \_\_\_\_\_

Tool Dresser's Name Cole Holcom

Tool Dresser's Name Wes Dillard

Tool Dresser's Name \_\_\_\_\_

Contractor's Name TOS

11 15 20

(Section) (Township) (Range)  
 Distance from S line, 3500 ft.

Distance from E line, 175 ft.

11 hours

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
889	70	Baffle			
916	55	Total			

CASING AND TUBING RECORD

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

Thickness of Strata	Formation	Total Depth	Remarks
0-4	Soil-clay	4	
62	Sand	66	
1	Lime	67	
8	Shale	75	
6	Shale & Lime	81	
137	Shale	218	
5	Lime	223	
3	Sand & Sandy Shale	226	
1	Lime	227	
3	Shale	230	
14	Lime	244	
7	Shale	251	
7	Lime	258	
8	Shale	265	
20	Lime	285	Shells
23	Shale	308	
4	Sand & Sandy Shale	312	No Oil
19	Lime	331	
4	Shale	335	
7	Sand	342	No Oil
62	Shale	404	
22	Lime	426	
18	Shale	444	
6	Lime	450	
16	Shale	466	
6	Sandy Shale	472	
18	Lime	490	



490

Thickness of Strata	Formation	Total Depth	Remarks
6	Shale	496	
3	Shale & Lime	499	
11	Shale	510	
6	Lime	516	
2	Lime	518	
1	Shale	519	Oil-
13	Lime	532	
10	Shale	542	
22	Lime	564	
4	Shale	568	
4	Lime	572	
4	Shale	576	
5	Lime	581	
5	Shale	586	Hertha
12	Sandy & Sandy Shale	598	
104 <del>10</del>	Shale	702	No Oil
5	Sand	707	
5	Sandy Shale	712	No Oil
27	Shale	739	
3	Lime	742	
13	Shale	755	
6	Lime	761	
7	Shale	768	
4	Lime	772	
6	Shale	778	
3	Lime	781	
9	Shale Lime	790	

790

Thickness of Strata	Formation	Total Depth	Remarks
11	Shale	801	
3	Lime	804	
11	Shale	815	
5	Shale & Lime	820	
4	Lime	824	
14	Shale	838	
1	Lime	839	
5	Shale	844	
1	Lime	845	
2	Shale	847	
1	Lime	848	
6	Shale	854	
1	Sand	855	Broken - good oil
7	Sand	862	Solid - good saturation
4	Sand	866	Solid - washout
2	Sand	868	Solid - good saturation
5	Sand	873	Broken - good oil
57	Sandy Shale	930	
30	Shale	960	



**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 # 267206

Invoice Date: 04/08/2014 Terms: 0/30/10,n/30

Page 1

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

EARLY A-3  
42776  
SE 3-15-20  
04-07-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	20.00	11.5000	230.00
1118B	PREMIUM GEL / BENTONITE	34.00	.2200	7.48
1111	SODIUM CHLORIDE (GRANULA	39.00	.3900	15.21
1110A	KOL SEAL (50# BAG)	100.00	.4600	46.00

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-89.61

Description	Hours	Unit Price	Total
368 CEMENT PUMP (SURFACE)	1.00	870.00	870.00
368 EQUIPMENT MILEAGE (ONE WAY)	.00	4.20	.00
368 CASING FOOTAGE	70.65	.00	.00
369 80 BBL VACUUM TRUCK (CEMENT)	1.50	100.00	150.00
548 MIN. BULK DELIVERY	.50	368.00	184.00

Amount Due 1524.05 if paid after 04/18/2014

Parts:	298.69	Freight:	.00	Tax:	14.95	AR	1428.03
Labor:	.00	Misc:	.00	Total:	1428.03		
Sublt:	-89.61	Supplies:	.00	Change:	.00		

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





**CONSOLIDATED**  
Oil Well Services, LLC

267206

TICKET NUMBER 42776  
LOCATION Ottawa  
FOREMAN Alan Made

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
4-7-14	3244	Early A-3	SE 3	15	2D	OG
CUSTOMER Altavista Energy			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 128			730	Ala Mad	Safet	Meat
CITY STATE ZIP CODE Wellsville KS 66092			368	Ar Mac		
			369	Der Mac		
			548	Mik Hag		

JOB TYPE Surface HOLE SIZE 9 7/8 HOLE DEPTH 72 CASING SIZE & WEIGHT 7"  
CASING DEPTH 70.65 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING YES  
DISPLACEMENT 3 DISPLACEMENT PSI 100 MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: Held meeting. Established rate. Mixed & pumped 50/50 cement plus 2% gel, 5% salt, 5# Kolseal per sack. Circulated cement. Displaced casing with clean water. Closed valve.

TDS, GRS

*Alan Made*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	368	870.00 ✓
5406	—	MILEAGE	368	— ✓
5402	70.65	casing footage	368	— ✓
5407	1/2 min	ton miles	548	184.00 ✓
55021	1 1/2	80 gal	369	150.00 ✓
1124	20	50/50 cement	230.00 ✓	
1118B	34#	gel	7.48 ✓	
1111	39#	salt	15.21 ✓	
1110A	100#	Kolseal	46.00 ✓	
		Material sub.	298.69	
		less 30% —	89.61 ✓	
		Material total		209.08
			1524.05	
		SALES TAX		14.95 ✓
		ESTIMATED TOTAL		1428.03 ✓

**completed**

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 form.



**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 # 267252

Invoice Date: 04/10/2014 Terms: 0/30/10,n/30

Page 1

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

EARLY #3  
47036  
SE 11-15-20  
04-08-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	133.00	11.5000	1529.50
1118B	PREMIUM GEL / BENTONITE	324.00	.2200	71.28
1111	SODIUM CHLORIDE (GRANULA	257.00	.3900	100.23
1110A	KOL SEAL (50# BAG)	665.00	.4600	305.90
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-602.07

Description	Hours	Unit Price	Total
495 CEMENT PUMP	1.00	1085.00	1085.00
495 EQUIPMENT MILEAGE (ONE WAY)	25.00	4.20	105.00
495 CASING FOOTAGE	916.00	.00	.00
503 MIN. BULK DELIVERY	.50	368.00	184.00
675 80 BBL VACUUM TRUCK (CEMENT)	2.00	100.00	200.00

Amount Due 3756.02 if paid after 04/20/2014

Parts:	2036.41	Freight:	.00	Tax:	102.56	AR	3110.90
Labor:	.00	Misc:	.00	Total:	3110.90		
Sublt:	-602.07	Supplies:	.00	Change:	.00		

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





**CONSOLIDATED**  
Oil Well Services, LLC

267252

TICKET NUMBER 47036

LOCATION Ottawa KS

FOREMAN Fred 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
4-8-14	3244	Early # 3	SE 11	15	20	DG
CUSTOMER <u>Altavista Energy</u>			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS <u>P.O. Box 128</u>			712 FroMad			
CITY STATE ZIP CODE <u>Wellsville KS 66092</u>			495 HarBec			
			675 Ki Dat			
			508 Max Coc			

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 960' CASING SIZE & WEIGHT 2 7/8 50F  
 CASING DEPTH 916' DRILL PIPE Baffle in tubing 889 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 25' x Plug  
 DISPLACEMENT 5.1688 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 BPM

REMARKS: Hold crew safety meeting. Establish pump rate. Mix + Pump 100# Gel Flush. Mix + Pump 133 SKS 50/50 Por Mix Cement 2% Gel 5% Salt 5# Kol Seal/sk. Cement to surface. Flush pump & lines clean. Displace 2 1/2" Rubber plug to baffle in casing. Pressure to 800# PSI. Release pressure to set float valve. Shut in casing.

TAS Drilling - Greg

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085 <sup>00</sup> ✓
5406	25 mi	MILEAGE	495	105 <sup>00</sup> ✓
5402	916	Casing footage		N/C ✓
5407	1/2 minimum	Ten Miles	503	184 <sup>00</sup> ✓
5502C	2 hrs	80 BBL Vac Truck	695	200 <sup>00</sup> ✓
1124	133 SKS	50/50 Por Mix Cement	1529 <sup>50</sup>	✓
118B	324#	Premium Gel	71 <sup>25</sup>	✓
1111	257#	Granulated Salt	100 <sup>33</sup>	✓
1110A	665#	Kol Seal	305 <sup>20</sup>	✓
		Material	2006 <sup>91</sup>	
		less 30%	- 602 <sup>07</sup>	
		Total material		1404 <sup>84</sup>
4409	1	2 1/2" Rubber Plug		29 <sup>50</sup> ✓
		<input checked="" type="checkbox"/> completed	3756 <sup>02</sup>	
		7.15%	SALES TAX	102 <sup>56</sup> ✓
			ESTIMATED TOTAL	3110 <sup>90</sup> ✓

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