

Douglas County, KS  
 Well: Early A-2  
 Lease Owner: AltaVista

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

Commenced Spudding:  
 4/10/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-7	Soil-Clay	7
88	Sand	95
111	Shale	206
4	Lime	210
3	Sandy Shale	213
5	Shale	218
13	Lime	231
9	Shale	240
7	Lime	247
6	Shale	252
20	Lime	273
9	Shale	282
15	Sandy Shale	297
5	Shale	302
19	Lime	321
6	Sandy Shale	328
4	Sand	332
61	Shale	393
22	Lime	415
13	Shale	428
4	Shale	432
8	Lime	440
15	Shale	455
8	Sandy Shale	463
19	Lime	482
5	Shale	487
1	Lime	488
12	Shale	500
23	Lime	523
8	Shale	531
3	Shale	534
20	Lime	554
5	Shale	559
4	Lime	563
3	Shale	566
6	Lime	572
8	Shale	580
9	Sandy Shale	584
97	Shale	686
12	Sand	698



# 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-2

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-2

Elevation 1088

Commenced Spuding 04/10 20 14

Finished Drilling 04/11 20 14

Driller's Name Greg Parry

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

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

Tool Dresser's Name Cole Holcom

Tool Dresser's Name Wes Dollard

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

Contractor's Name TOS

11      15      20

(Section) (Township) (Range)

Distance from S line, 4405 ft.

Distance from E line, 175 ft.

11 hours

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.

CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_  
 8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_  
~~6"~~ 7" Set 112' 6 1/4" Pulled \_\_\_\_\_  
 4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_  
 2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

Thickness of Strata	Formation	Total Depth	Remarks
0-7	Soil-Clay	7	
88	Sand	95	
111	Shale	206	
4	Lime	210	
3	Sandy Sandy Shale	213	No Oil
5	Shale	218	
13	Lime	231	
9	Shale	240	
7	Lime	247	
6	Shale	253	
20	Lime	273	Shells
9	Shale	282	
15	Sand & Sandy Shale	297	No Oil
5	Shale	302	
19	Lime	321	Shells
6	Sandy Shale	328	
4	Sand	332	No Oil
61	Shale	393	
22	Lime	415	
13	Shale	428	
4	Shale & Lime	432	
8	Lime	440	
15	Shale	455	
8	Sandy Shale	463	
19	Lime	482	
5	Shale	487	
1	Lime	488	

488

Thickness of Strata	Formation	Total Depth	Remarks
12	<del>Shale</del> Shale	500	
23	Lime	523	
8	Shale	531	
3	Shale & Lime	534	
20	Lime	554	
5	Shale	559	
4	Lime	563	
3	Shale	566	
6	Lime	572	
8	Shale	580	Merthen
9	Sandy Shale	589	
97	Shale	686	
12	Sand	698	
29	Shale	727	No Oil
2	Lime	729	
13	Shale	742	
9	Lime	751	
9	Shale	760	
2	Lime	762	
9	Shale	771	
1	Lime	772	
1	Shale	773	
6	Lime & Shale	779	
14	Shale	793	
3	Lime	796	
	Shale	807	
	Lime	809	

809

Thickness of Strata	Formation	Total Depth	Remarks
5	Shale & Lime	814	
1	Lime	815	
1	Shale	816	
1	Lime	817	
15	Shale	832	
1	Lime	833	
5	Shale	838	
2	Lime	840	
2	Shale	842	
1	Lime	843	
21	Shale	864	
15	Sandy Shale	879	
36	Shale	915	
18	Sandy Shale	933	
15	Shale	948	
10	Sand	958	No Oil
6	Sandy Shale	964	
4	Shale	968	
2	Redbed	970	
30	Shale	1000	TD



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
FINV  
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 # 267325

Invoice Date: 04/14/2014 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

EARLY A-2  
47047  
NE 11-15-20  
04-10-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	40.00	11.5000	460.00
1111	SODIUM CHLORIDE (GRANULA	77.00	.3900	30.03
1118B	PREMIUM GEL / BENTONITE	67.00	.2200	14.74
1110A	KOL SEAL (50# BAG)	200.00	.4600	92.00

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-179.03

Description	Hours	Unit Price	Total
369 CEMENT PUMP (SURFACE)	1.00	870.00	870.00
369 EQUIPMENT MILEAGE (ONE WAY)	.00	4.20	.00
369 CASING FOOTAGE	112.00	.00	.00
369 80 BBL VACUUM TRUCK (CEMENT)	3.50	100.00	350.00
548 MIN. BULK DELIVERY	.50	368.00	184.00

Amount Due 2043.44 if paid after 04/24/2014

Parts:	596.77	Freight:	.00	Tax:	29.87	AR	1851.61
Labor:	.00	Misc:	.00	Total:	1851.61		
Sublt:	-179.03	Supplies:	.00	Change:	.00		

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





**CONSOLIDATED**  
Oil Well Services, LLC

267325

TICKET NUMBER 47047

LOCATION Oxgangs

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
4-10-14	3244	Early A-2	NE 11	15	20	D6

CUSTOMER <u>Alta Vista Energy</u>		
MAILING ADDRESS <u>P.O. Box 128</u>		
CITY <u>Wellsville</u>	STATE <u>KS</u>	ZIP CODE <u>66092</u>

TRUCK #	DRIVER	TRUCK #	DRIVER
730	Ala Mad	Safety	Maet
368	Br. McD		
369	Der Mas		
548	Ke:Car		

JOB TYPE <u>Surface</u>	HOLE SIZE <u>9 7/8</u>	HOLE DEPTH <u>112</u>	CASING SIZE & WEIGHT <u>7'</u>
CASING DEPTH <u>112</u>	DRILL PIPE	TUBING	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>yes</u>
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI <u>200</u>	RATE <u>4 bpm</u>

REMARKS: Held meeting. Established rate. Mixed & pumped 40 sacks 50/50 cement plus 2% gel, 5% salt, 5# Kel seal per sack. Circulated cement. Displaced casing with clean water. Closed valve.

TOS, Greg

Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	368	870.00 ✓
5406		MILEAGE	368	— ✓
5402	112	casing footage	368	— ✓
5407	1/2 min	ton miles	548	184.00 ✓
5502L	3 1/2	80 vac		350.00 ✓
1124	40	50/50 cement	460.00	✓
1111	77#	salt	30.03	✓
1118B	67#	gel	14.74	✓
1110A	200#	Kel seal	92.00	✓
		material sub	596.77	✓
		less 30%	- 179.00	✓
		material total		417.74
				2043.44

**completed**

SALES TAX 29.87 ✓  
ESTIMATED TOTAL 1851.61 ✓

AUTHORIZATION Bryan Kelly 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

~~PAID TO~~  
**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 # 267532

Invoice Date: 04/23/2014 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-2  
47021  
NE 11-15-20  
04-17-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	130.00	11.5000	1495.00
1118B	PREMIUM GEL / BENTONITE	655.00	.2200	144.10

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-491.73

Description	Hours	Unit Price	Total
370 80 BBL VACUUM TRUCK (CEMENT)	2.00	100.00	200.00
510 MIN. BULK DELIVERY	1.00	368.00	368.00
666 P & A NEW WELL	1.00	1085.00	1085.00
666 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.20	84.00

Amount Due 3493.29 if paid after 05/03/2014

Parts:	1639.10	Freight:	.00	Tax:	82.03	AR	2966.40
Labor:	.00	Misc:	.00	Total:	2966.40		
Sublt:	-491.73	Supplies:	.00	Change:	.00		

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



**CONSOLIDATED**  
Oil Well Services, LLC

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

267532

TICKET NUMBER 47021  
LOCATION Attawa, KS  
FOREMAN Casen Kennedy

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9/17/14	3244	Early # A-2	NE 11	15	20	DG

CUSTOMER  
Altavista Energy

MAILING ADDRESS  
PO Box 128

CITY Wellsville STATE KO ZIP CODE 66602

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Casken	✓ Safety Meeting	
6666	Gardner	✓	
510	Set Tex	✓	
370	Jas Ric	✓	

JOB TYPE plug HOLE SIZE 5 1/8" HOLE DEPTH 1000' CASING SIZE & WEIGHT \_\_\_\_\_  
CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING hole - full  
DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 2 bpm

REMARKS: held safety meeting, established circulation and cemented through 1" tubing at hole TD, mixed + pumped 40 sks 5% Pozmix cement w/ 6% gel per sk, pulled tubing to 700', mixed + pumped 40 sks cement, pulled tubing to 400', mixed + pumped 40 sks cement, cement to surface, pulled tubing from well, topped well off w/ 10 sks cement, washed up tubing + equipment.

*[Handwritten Signature]*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE		1085.00 ✓
5406	20 mi	MILEAGE		84.00 ✓
5407	minimum	ten mileage		368.00 ✓
5502C	2 hrs	80 Vac		200.00 ✓
1124	130 sks	5% Pozmix cement	1495.00 ✓	
1118B	655 #	Premium Gel	144.10 ✓	
		materials	11639.10	
		- 30%	- 491.73 ✓	
		Subtotal		1147.37
			3493.29	
		SALES TAX 7.15%		82.03 ✓
		ESTIMATED TOTAL		2966.40 ✓

RAVIN 3737

AUTHORIZATION Bryan Millh 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