

Douglas County, KS  
 Well: Early AI-5  
 Lease Owner: AltaVista

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

Commenced Spudding:  
 4/11/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-6	Soil-Clay	6
82	Sand	88
19	Shale	107
2	Lime	109
106	Shale	215
9	Lime	224
4	Shale	228
14	Lime	242
7	Shale	249
7	Lime	256
7	Shale	263
21	Lime	284
26	Shale	312
20	Lime	332
4	Sandy Shale	336
2	Sand	338
8	Sandy Shale	346
56	Shale	402
22	Lime	424
18	Shale	442
9	Lime	451
12	Shale	463
9	Sand	472
19	Lime	491
3	Shale	494
1	Lime	495
12	Shale	507
24	Lime	531
8	Shale	539
22	Lime	561
5	Shale	566
3	Lime	569
4	Shale	573
5	Lime	578
7	Shale	585
5	Sand	590
7	Sandy Shale	597
100	Shale	697
8	Sand	705
5	Sandy Shale	710



# Short Cuts

## TANK CAPACITY

BBLs. (42 gal.) equals  $D^2 \times 1.4 \times h$

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-5

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. AI-5

Elevation 1085

Commenced Spuding 04/07 20 14

Finished Drilling 20

Driller's Name Greg Perry

Driller's Name

Driller's Name

Tool Dresser's Name Cole Holcom

Tool Dresser's Name Kenny Cunn

Tool Dresser's Name Wes Dollard

Contractor's Name TOS

11 15 20

(Section) (Township) (Range)

Distance from S line, 450 ft.

Distance from E line, 980 ft.

11 hours

CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_

8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_

7" ~~8~~" Set 97' 6 1/2" Pulled \_\_\_\_\_

4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_

2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
930	25	Baffle			
963	20	Total			

Thickness of Strata	Formation	Total Depth	Remarks
0-6	Soil - Clay	6	
82	Sand	88	water
<del>19</del>	<del>Shale</del>	<del>107</del>	
19	Shale	107	
2	Shale Lime	109	
106	Shale	215	
9	Lime	224	
4	Shale	228	
14	Lime	242	
7	Shale	249	
7	Lime	256	
7	Shale	263	
21	Lime	284	Shells
26	Shale	312	
20	Lime	332	Shells
4	Sandy Shale	336	
2	Sand	338	No Oil
8	Sandy Shale	346	
56	Shale	402	
22	Lime	424	
18	Shale	442	
9	Lime	451	
12	Shale	463	
9	Sand	472	
19	Lime	491	475-476 Odor No show
3	Shale	494	
1	Lime	495	

445

Thickness of Strata	Formation	Total Depth	Remarks
12	Shale	507	
24	Lime	531	
8	Shale	539	
22	Lime	561	
5	Shale	566	
3	Lime	569	
4	Shale	573	
5	Lime	578	
7	Shale	585	Hortha
5	Sand	590	
7	Sandy Shale	597	
100	Shale	697	
8	Sand	705	No Oil
5	Sandy Shale	710	
39	Shale	749	
8	Lime	757	
7	Shale	764	
10	Shale & Lime	774	
3	Shale	777	
7	Lime	784	
15	Shale	799	
3	Lime	802	
3	Shale	805	
2	Sand & Sandy Shale	807	
2	Shale	809	
2	Lime	811	
5	Shale	816	

Thickness of Strata	Formation	Total Depth	Remarks
2	Lime	818	
1	Shale	819	
4	Lime	823	
24	Shale	847	
1	Lime	848	
7	Shale	855	
5	Sandy Shale	860	Odor
18	Sand	878	Broken
16	Gard	894	Solid Good Saturation
31	Shale	925	
29	Sandy Shale	954	
1	Lime	955	
12	Sand	967	
2	Sand	969	Slight Show
31	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 # 267390

Invoice Date: 04/16/2014 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 AI-5  
47067  
NE 11-15-20  
04-11-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	50.00	11.5000	575.00
1118B	PREMIUM GEL / BENTONITE	84.00	.2200	18.48

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-178.04

Description	Hours	Unit Price	Total
368 CEMENT PUMP (SURFACE)	1.00	870.00	870.00
368 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.20	84.00
368 CASING FOOTAGE	97.00	.00	.00
369 80 BBL VACUUM TRUCK (CEMENT)	2.50	100.00	250.00
558 MIN. BULK DELIVERY	1.00	368.00	368.00

Amount Due 2207.91 if paid after 04/26/2014

Parts:	593.48	Freight:	.00	Tax:	29.70	AR	2017.14
Labor:	.00	Misc:	.00	Total:	2017.14		
Sublt:	-178.04	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





267390

TICKET NUMBER 47067  
 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
4-11-14	3244	Early AI-5	NE 11	15	30	Dg

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Altavista Energy	730	Ala Mader	Safety	Meat
MAILING ADDRESS	368	Al Mader		
P.O. Box 128	369	Der Mader		
CITY	558	Mat Coc		
Wellsville				
STATE				
KS				
ZIP CODE				
66092				

JOB TYPE Surface HOLE SIZE 9 7/8 HOLE DEPTH 97 CASING SIZE & WEIGHT 7  
 CASING DEPTH 97 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING yes  
 DISPLACEMENT 3 3/4 DISPLACEMENT PSI 100 MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: Held meeting. Established circulation down casing. Mixed & pumped 50 sk 50/50 cement plus 20% gel. Circulated cement. Displaced casing with 3 3/4 bbl water. Closed valve.

TOS, Gress

*[Signature: Alan Mader]*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	368	820 <sup>00</sup> ✓
5406	20	MILEAGE	368	84 <sup>00</sup> ✓
5422	97'	casing footage	368	✓
5407	min	tax miles	558	368 <sup>00</sup> ✓
5526	2 1/2	80 val	369	250 <sup>00</sup> ✓
1124	50	50/50 cement	575 <sup>00</sup>	✓
1118B	84	gel	18.48	✓
		material sub	593.48	✓
		less 30%	- 178.04	✓
		Material Total		415.44
			2207.91	✓
		SALES TAX		29.70
		ESTIMATED TOTAL		2017.14 ✓

completed

Ravn 3737

No company rep  
 J.M. Okid

AUTHORIZATION \_\_\_\_\_ 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 # 267530

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 AI-5  
47017  
NE 11-15-20  
04-16-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	150.00	11.5000	1725.00
1118B	PREMIUM GEL / BENTONITE	452.00	.2200	99.44
1111	SODIUM CHLORIDE (GRANULA	315.00	.3900	122.85
1110A	KOL SEAL (50# BAG)	750.00	.4600	345.00
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	-687.69

Description	Hours	Unit Price	Total
370 80 BBL VACUUM TRUCK (CEMENT)	1.50	100.00	150.00
558 MIN. BULK DELIVERY	.50	368.00	184.00
666 CEMENT PUMP	1.00	1085.00	1085.00
666 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.20	84.00
666 CASING FOOTAGE	963.00	.00	.00

Amount Due 4016.12 if paid after 05/03/2014

Parts:	2345.42	Freight:	.00	Tax:	118.53	AR	3279.26
Labor:	.00	Misc:	.00	Total:	3279.26		
Sublt:	-687.69	Supplies:	.00	Change:	.00		

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



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

267530

TICKET NUMBER 47017  
LOCATION Ottawa, KS  
FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT  
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4/16/14	3244	Early # AI-S	NE 11	15	20	DG
CUSTOMER Attavista Energy						
MAILING ADDRESS PO Box 128						
CITY Wellsville		STATE KS	ZIP CODE 66092			

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Cashen	✓	Safety Meeting
660	Gar Moo	✓	
558	Mat Coc	✓	
370	Kei Det	✓	

JOB TYPE long string HOLE SIZE 5 7/8" HOLE DEPTH 1000' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 963' DRILL PIPE \_\_\_\_\_ TUBING baffle - 930' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 33'  
 DISPLACEMENT 5.38 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 bpm

REMARKS: held 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 150 sts 5/50 Pozmix cement w/ 2% gel, 5% salt, + 5 # Kalscal per st, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 5.38 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	963'	casing footage		— ✓
5407	1/2 minimum	ten mileage		184.00 ✓
5502C	1.5 hrs	80 Vac		150.00 ✓
1124	150 sts	5/50 Pozmix cement	1725.00 ✓	
<del>1111B</del> 1111B	452 #	Premium Gel	99.44 ✓	
1111	315 #	Salt	120.85 ✓	
1110A	750 #	Kalscal	345.00 ✓	
		materials	2292.29	
		-30%	-687.69 ✓	
		subtotal		1604.60
4402	1	2 1/2" rubber plug		29.50 ✓
1401	1/2 gal	Polymer		23.63 ✓
			4016.12	
				118.53 ✓
				3279.26 ✓

**completed** 7.15%

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