

Douglas County, KS  
 Well: Early AI-~~17~~7  
 Lease Owner: Altavista

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

Commenced Spudding:  
 04/08/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-4	soil-clay	4
24	sand	28
2	lime	30
37	sand	67
1	lime	68
50	shale	118
7	sandy shale	125
89	shale	214
5	lime	219
5	shale and lime	224
4	shale\	228
13	lime	241
8	shale	249
7	lime	256
6	shale	262
22	lime	284
7	shale	291
4	sand and sandy shale	295
15	shale	310
20	lime	330
3	shale	333
6	sand	339
3	sandy shale	342
61	shale	403
22	lime	425
16	shale	441
8	lime	449
24	shale	473
17	lime	490
5	shale	495
1	lime	496
13	shale	509
23	lime	532
10	shale	542
21	lime	563
5	shale	568
3	lime	571
4	shale	575
6	lime	584
3	shale	584



# 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. AI-7

Farm Early

KS

(State)

Douglas

(County)

11

(Section)

15

(Township)

20

(Range)

For Altavista  
(Well Owner)

## Town Oilfield Services, Inc.

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

Early Farm: Douglas County

R5 State: Well No. AI-7

Elevation 1088

Commenced Spuding 04/08 20 14

Finished Drilling 04/09 20 14

Driller's Name Greg Perry

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, 3528 ft.

Distance from E line, 670 ft.

11 hours

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
959	05	Baffle			
990	55	Total			

CASING AND TUBING RECORD

- 10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_
- 8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_
- ~~8"~~ 7" Set 72' 6 1/4" Pulled \_\_\_\_\_
- 4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_
- 2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

Thickness of Strata	Formation	Total Depth	Remarks
0-4	Soil - Clay	4	
24	Sand	28	
2	Lime	30	
37	Sand	67	
1	Lime	68	
50	Shale	118	
7	Sandy Shale	125	
89	Shale	214	
5	Lime	219	
5	Shale & Lime	224	
4	Shale	228	
13	Lime	241	
8	Shale	249	
7	Lime	256	
6	Shale	262	
22	Lime	284	Shells
7	Shale	291	
4	Sand & Sandy Shale	295	No Oil
15	Shale	310	
20	Lime	330	Shells
3	Shale	333	
6	Sand	339	No Oil
3	Sandy Shale	342	
61	Shale	403	
22	Lime	425	
16	Shale	441	
8	Lime	449	

449

Thickness of Strata	Formation	Total Depth	Remarks
24	Shale	473	
17	Lime	490	
5	Shale	495	
1	Lime	496	
13	Shale	509	
23	Lime	532	
10	Shale	542	
21	Lime	563	
5	Shale	568	
3	Lime	571	
4	Shale	575	
6	Lime	581	
3	Shale	584	Mertha
6	Sand	590	No Oil
7	Sandy Shale	597	
99	Shale	695	
11	Sand	706	
5	Sandy Shale	711	
40	Shale	751	
6	Lime	757	
6	Shale	763	
6	Lime	769	
5	Shale	774	
9	Lime	783	
2	Shale & Lime	785	
11	Shale	796	
3	Lime	799	

799

Thickness of Strata	Formation	Total Depth	Remarks
12	Shale	811	
5	Lime & Shale	816	
2	Lime	818	
10	Lime & Shale	828	
14	Shale	842	
2	Lime	844	
1	Shale	845	
1	Lime	846	
4	Shale	850	
4	Sand	854	No Oil
3	Sand	857	Slight show
21	Sand	878	Broken - Poor Saturation
9	Sand	887	Broken - Good Saturation
16	Sand	903	Solid - Good Saturation
92	Shale	995	Perforate
7	Sand	1002	Oil
18	Shale	1020	Bottom 28 TD



**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 # 267253

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 ~~AS~~ A1-7  
47038  
NW 11-15-20  
04-08-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	30.00	11.5000	345.00
1118B	PREMIUM GEL / BENTONITE	51.00	.2200	11.22
1111	SODIUM CHLORIDE (GRANULA	58.00	.3900	22.62
1110A	KOL SEAL (50# BAG)	150.00	.4600	69.00

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-134.35

Description	Hours	Unit Price	Total
495 CEMENT PUMP (SURFACE)	1.00	870.00	870.00
495 EQUIPMENT MILEAGE (ONE WAY)	.00	4.20	.00
495 CASING FOOTAGE	72.00	.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 1733.86 if paid after 04/20/2014

Parts:	447.84	Freight:	.00	Tax:	22.41	AR	1589.90
Labor:	.00	Misc:	.00	Total:	1589.90		
Sublt:	-134.35	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

267253

TICKET NUMBER 47038  
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 # A.I.-7	NW 11	15	20	DG

CUSTOMER Alta Vista Energy  
MAILING ADDRESS P.O. Box 128  
CITY Wellsville STATE Ks ZIP CODE 66092

TRUCK #	DRIVER	TRUCK #	DRIVER
712	Fred Mad		
495	Har Bec		
675	Ki Det		
503	Mat Roc		

JOB TYPE Surface HOLE SIZE 9 1/2 HOLE DEPTH 74' CASING SIZE & WEIGHT 7"  
CASING DEPTH 72' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT In CASING 10' +  
DISPLACEMENT 2.75 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.3 PM

REMARKS: Hold crew safety meeting. Establish circulation thru 7" casing.  
Mix + Pump 30 sks 50/50 Por Mix Cement 2% Gel 5% Salt  
5# Kol Seal/sk. Cement to surface. Displace 7" casing clean  
w/ 2.75 BBL Water. Shut in casing.

TDS Drilling: Greg

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE <u>Surface Cement</u>	495	870 <sup>00</sup> ✓
5406	-	MILEAGE		N/C ✓
5402	72'	Casing footage		N/C ✓
5407	1/2 minimum	Ton Miles	503	184 <sup>00</sup> ✓
5502C	2 hrs	80 BBL vac Truck	675	200 <sup>00</sup> ✓
1124	30sks	50/50 Por Mix Cement	345 <sup>00</sup>	✓
1116B	51#	Premium Gel	11 <sup>22</sup>	✓
1111	58#	Granulated Salt	22 <sup>62</sup>	✓
1110A	150#	Kol Seal	69 <sup>00</sup>	✓
		Material	447 <sup>54</sup>	
		less 30%	-134 <sup>35</sup>	
		Total Material		313 <sup>49</sup>
			1733.86	
			SALES TAX	22 <sup>41</sup> ✓
			ESTIMATED TOTAL	1589 <sup>90</sup> ✓

completed

Ravin 3737

AUTHORIZATION Bryan Mills 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  
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**MAIN OFFICE**  
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Chanute, KS 66720  
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Fax 620/431-0012

INVOICE

Invoice # 267321

Invoice Date: 04/14/2014 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-7  
47039  
NE 11-15-20  
04-09-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	130.00	11.5000	1495.00
1118B	PREMIUM GEL / BENTONITE	319.00	.2200	70.18
1111	SODIUM CHLORIDE (GRANULA	252.00	.3900	98.28
1110A	KOL SEAL (50# BAG)	650.00	.4600	299.00
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	-588.74

Description	Hours	Unit Price	Total
368 CEMENT PUMP	1.00	1085.00	1085.00
368 EQUIPMENT MILEAGE (ONE WAY)	25.00	4.20	105.00
368 CASING FOOTAGE	990.00	.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 3733.71 if paid after 04/24/2014

Parts:	2015.59	Freight:	.00	Tax:	102.03	AR	3102.88
Labor:	.00	Misc:	.00	Total:	3102.88		
Sublt:	-588.74	Supplies:	.00	Change:	.00		

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



**CONSOLIDATED**  
Oil Well Services, LLC

267321

TICKET NUMBER 47039

LOCATION Ottawa KS

FOREMAN Fred Maden

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
4-9-14	3244	Early # A.I. - 7	NE 11	15	20	DG
CUSTOMER <u>Alta Vista Energy Inc</u>						
MAILING ADDRESS <u>P.O. Box 128</u>						
CITY <u>Wellsville</u>		STATE <u>KS</u>	ZIP CODE <u>6</u>			
		TRUCK #	DRIVER	TRUCK #	DRIVER	
		<u>712</u>	<u>Fred Mad</u>			
		<u>368</u>	<u>Art Mad</u>			
		<u>675</u>	<u>Ken Dax</u>			
		<u>503</u>	<u>Ken Car</u>			

JOB TYPE hangstrom HOLE SIZE 5 7/8 HOLE DEPTH 1020 CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 990 DRILL PIPE Baffle in TUBING @ 959 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 3' + Plug  
 DISPLACEMENT 5.58 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.8 bpm.

REMARKS: Hold safety meeting. Establish pump rate. Pump 1/2 Gal HE-100  
Polymer + Circulate to condition hole. Mix + Pump 100# Gal  
Flush. Mix + Pump sks 50/50 Poz Mix Cement 2% Gel 5% Salt  
5# Kal Seal/sk. Cement to surface. Flush pump + lines  
clean. Displace 2 1/2" Rubber plug to Baffle. in casing. Pressure  
to 800#. Release pressure to set float valve. Show in Casing

TOS Drilling - Greg.

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1085 <sup>00</sup>
5406	25	MILEAGE	368	105 <sup>00</sup>
5402	990'	Casing footage		N/C
5407	1/2 minimum	Ten Miles	503	184 <sup>00</sup>
5582C	2 hrs	80 BBL Vac. Truck	675	200 <sup>00</sup>
1124	130 sks	50/50 Poz Mix Cement	1495 <sup>00</sup>	
1118B	319#	Premium Gel	70 <sup>18</sup>	
1111	252#	Granulated Salt	98 <sup>23</sup>	
1110A	650#	Kal Seal	299 <sup>00</sup>	
		Material	1962 <sup>46</sup>	
		Less 30%	-588 <sup>74</sup>	
		Total Material		1373 <sup>72</sup>
4402	1	2 1/2" Rubber Plug	27 <sup>50</sup>	27 <sup>50</sup>
1401	1/2 Gal	HE-100 Poly. Ther		23 <sup>53</sup>
			3733.71	
		SALES TAX		102 <sup>03</sup>
		ESTIMATED TOTAL		3102 <sup>88</sup>

completed

Ravin 3737

AUTHORIZATION Bryan Maden 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.