

Douglas County, KS  
Well:Early AI-2  
Lease Owner:Altavista

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

Commenced Spudding:  
04/01/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-7	soil	7
81	sand	88
123	shale	211
4	lime	215
8	sandy shale	223
13	lime	237
8	shale	245
7	lime	252
6	shale	258
20	lime	278
8	shale	286
12	sandy shale	298
8	shale	306
19	lime	325
4	sandy shale	329
8	sand	337
62	shale	399
22	lime	421
12	shale	433
6	shale and lime	439
7	lime	446
15	shale	461
3	sandy shale	464
5	shale	469
17	lime	486
6	shale	492
1	lime	493
12	shale	505
6	lime	511
4	lime	515
13	lime	528
8	shale	536
3	shale and lime	539
21	lime	560
5	shale	565
3	lime	568
4	shale	572
5	lime	577
7	shale	584
6	sandy shale	590



# 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-2

Farm Early

KS (State) Douglas (County)

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

For Altavista Energy (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-2

Elevation 1090

Commenced Spuding 04/01 20 14

Finished Drilling 04/07 20 14

Driller's Name Grey 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, 3930 ft.

Distance from E line, 175 ft.

10 hours

**CASING AND TUBING  
 RECORD**

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_  
 8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_  
 7 1/2" Set 91' 6 1/4" Pulled \_\_\_\_\_  
 4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_  
 2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

**CASING AND TUBING MEASUREMENTS**

Feet	In.	Feet	In.	Feet	In.
899	15	Baffle			
931	05	Total			

Thickness of Strata	Formation	Total Depth	Remarks
0-7	Soil	7	
81	Sand	88	
123	Shale	211	
4	Lime	215	
8	Sandy Shale	223	
13	Lime	237	
8	Shale	245	
7	Lime	252	
6	Shale	258	
20	Lime	278	Shells
8	Shale	286	
12	Sandy Shale	298	No Oil
8	Shale	306	
19	Lime	325	Shells
4	Sandy Shale	329	
8	Sand	337	No Oil
62	Shale	399	
22	Lime	421	
12	Shale	433	
6	Shale & Lime	439	
7	Lime	446	
15	Shale	461	
3	Sandy Shale	464	
5	Shale	469	
17	Lime	486	
6	Shale	492	
1	Lime	493	

493

Thickness of Strata	Formation	Total Depth	Remarks
12	Shale	505	
6	Lime	511	
4	Lime	515	Oil - Heavy Bleed
13	Lime	528	
8	Shale	536	
3	Shale & Lime	539	
21	Lime	560	
5	Shale	565	
3	Lime	568	
4	Shale	572	
5	Lime	577	Hertha
7	Shale	584	
6	Sandy Shale	590	
105	Shale	695	
10	Sand	705	No Oil
31	Shale	736	
3	Lime	739	
11	Shale	750	
7	Lime	757	
7	Shale	764	
5	Lime	769	
6	Shale	775	
2	Lime	777	
9	Shale & Lime	786	
11	Shale	797	
3	Lime	800	
11	Shale	811	

811

Thickness of Strata	Formation	Total Depth	Remarks
5	Shale & Lime	816	
2	Lime	818	
17	Shale	<del>835</del> 835	
5	Shale & Lime	840	
5	<del>Lime</del> Shale	845	
1	Lime	846	
7	Shale	853	
1	Lime	854	
1	Sand	855	On Oil
1	Sand	856	Broken
10	Sand	866	Solid - Good Saturation
3	Sand	869	Broken
21	Sandy Shale	890	
70	Shale	960	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 # 267098

Invoice Date: 04/07/2014 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 AI-2  
42761  
NE 11-15-20  
04-01-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	45.00	11.5000	517.50
1118B	PREMIUM GEL / BENTONITE	76.00	.2200	16.72

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-160.27

Description	Hours	Unit Price	Total
548 MIN. BULK DELIVERY	1.00	368.00	368.00
666 CEMENT PUMP (SURFACE)	1.00	870.00	870.00
666 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.20	84.00
666 CASING FOOTAGE	91.00	.00	.00
675 80 BBL VACUUM TRUCK (CEMENT)	2.00	100.00	200.00

Amount Due 2094.42 if paid after 04/17/2014

Parts:	534.22	Freight:	.00	Tax:	26.74	AR	1922.69
Labor:	.00	Misc:	.00	Total:	1922.69		
Sublt:	-160.27	Supplies:	.00	Change:	.00		

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





**CONSOLIDATED**  
Oil Well Services, LLC

267098

TICKET NUMBER 42761  
LOCATION Ottawa, KS  
FOREMAN Cassey 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
4/1/14	3244	Early # AI-2	NE 11	15	20	DG

CUSTOMER Attavista Energy  
MAILING ADDRESS PO Box 128  
CITY Wellsville STATE KS ZIP CODE 666092

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Caskey	✓	Safety Meeting
6666	KejCar	✓	
548	Mikhaa	✓	
675	Blaine as Ric	✓	

JOB TYPE Surface HOLE SIZE 9 7/8" HOLE DEPTH 93' CASING SIZE & WEIGHT 7"  
CASING DEPTH 91' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 12'  
DISPLACEMENT 3.25 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 45 sks  
90/10 Pozmix cement w/ 2% gel per sk, cement to surface, displaced  
cement w/ 3.25 bbls fresh water, shut in casing.

*[Handwritten signature]*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE		870.00 ✓
5406	20 mi	MILEAGE		84.00 ✓
5402	91'	casing footage		✓
5407	minimum	ton mileage		368.00 ✓
5502C	2 hrs	80 Vac		200.00 ✓
1124	45 sks	90/10 Pozmix cement	517.50 ✓	
118B	76 #	Premium Gel	16.72 ✓	
		materials	534.22 ✓	
		- 20%	160.27 ✓	
		subtotal		373.95
		7.15%	SALES TAX	26.74 ✓
			ESTIMATED TOTAL	1922.69 ✓

**completed**

209442

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.



**CONSOLIDATED**  
Oil Well Services, LLC

**PAID 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 # 267205

Invoice Date: 04/08/2014 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 AI-2  
42775  
SE 3-15-20  
04-07-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	127.00	11.5000	1460.50
1118B	PREMIUM GEL / BENTONITE	313.00	.2200	68.86
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
Sublet Performed Description				Total
9996-120	CEMENT MATERIAL DISCOUNT			-575.10
	Description	Hours	Unit Price	Total
368	CEMENT PUMP	1.00	1085.00	1085.00
368	EQUIPMENT MILEAGE (ONE WAY)	20.00	4.20	84.00
368	CASING FOOTAGE	931.00	.00	.00
369	80 BBL VACUUM TRUCK (CEMENT)	2.50	100.00	250.00
548	MIN. BULK DELIVERY	.50	368.00	184.00

Amount Due 3714.01 if paid after 04/18/2014

Parts:	1970.14	Freight:	.00	Tax:	99.75	AR	3097.79
Labor:	.00	Misc:	.00	Total:	3097.79		
Sublt:	-575.10	Supplies:	.00	Change:	.00		

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



**CONSOLIDATED**  
Oil Well Services, LLC

267205

TICKET NUMBER 42775

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
4-7-14	3244	Early # AI-2	SE 3	15	20	Dg
CUSTOMER <u>Alta Vista</u>			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS <u>P.O. Box 128</u>			730	Ala Mad	Safety	Meat
CITY <u>Wellsville</u>			368	Al Mad		
STATE <u>KS</u>			369	Dev Mas		
ZIP CODE <u>66092</u>			548	Mik Hag		

JOB TYPE long string HOLE SIZE 5 5/8 HOLE DEPTH 960 CASING SIZE & WEIGHT 2 7/8  
 CASING DEPTH 931 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER 899 bf  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING yes  
 DISPLACEMENT 5.23 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm

REMARKS: Held meeting. Established rate. Mixed & pumped 1/2 gal polymer. Circulated into clean pit to condition hole. Mixed & pumped 100# gel followed by 127 gal 50/50 cement plus 27 gal 50% salt, 5# Kol seal per sack. Circulated cement to surface. Flushed pump. Pumped plug to baffle. Well held 800 PSI. Set float. Closed valve.

TOS. Was? Greg

Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1085.00 ✓
5406	20	MILEAGE	368	84.00 ✓
5402	931	casing footage	368	— ✓
5407	1/2 mi	Trip miles	548	184.00 ✓
5502L	2 1/2	80 gal	369	250.00 ✓
1127	127	50/50 cement	146.50	✓
1118B	313 #	gel	68.86	✓
1111	245 #	salt	95.55	✓
1110A	635 #	Kol seal	292.10	✓
		Material sub	1917.01	✓
		less 30% -	575.10	✓
		Material total		1341.91 ✓
4402	1	2 1/2 plug		29.50 ✓
1401	1/2 gal	poly		23.63 ✓
			3741.00	✓
		SALES TAX		99.75 ✓
		ESTIMATED TOTAL		3097.79 ✓

**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.