

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

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

Commenced Spudding:
 04/18/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-8	soil-clay	8
90	sand	98
113	shale	211
5	lime	216
6	shale	224
15	lime	239
7	shale	246
8	lime	252
7	shale	259
20	lime	279
12	shale	291
14	sand and sandy shale	305
2	shale	307
19	lime	326
4	shandy shale	330
13	sand and sandy shale	343
55	shale	398
22	lime	420
12	shale	4732
7	shale and lime	439
6	lime	445
17	shale	462
7	sand	469
18	lime	488
3	shale	491
1	lime	492
13	shale	505
6	lime	511
1	lime and crystal	512
16	lime	528
9	shale	537
22	lime	559
4	shale	563
4	lime	567
3	shale	570
6	lime	576
5	shale	581
14	sandy shale	595
97	shale	692
16	sand	708

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. AJ-3

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
KS State; Well No. AI-3

Elevation 1043

Commenced Spuding 04/18 20 14

Finished Drilling 04/21 20 14

Driller's Name Gray Perry

Driller's Name _____

Driller's Name _____

Tool Dresser's Name Kenny Gunn

Tool Dresser's Name Wes Dollard

Tool Dresser's Name _____

Contractor's Name FOS

11 15 20

(Section) (Township) (Range)
Distance from S line, 4560 ft.

Distance from E line, 5910 ft.

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
958	15	Baffle			
989	15	Total			

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
 8" Set _____ 8" Pulled _____
~~7"~~ 6" Set 115.7' 6 1/4" Pulled _____
 4" Set _____ 4" Pulled _____
 2" Set _____ 2" Pulled _____

Thickness of Strata	Formation	Total Depth	Remarks
0-8	Soil-clay	8	
40	Sand	98	
113	Shale	211	
5	Lime	216	
6	Shale	224	
15	Lime	239	
7	Shale	246	
8	Lime	252	
7	Shale	259	
20	Lime	279	Shells
12	Shale	291	
14	Sand & Sandy Shale	305	No Oil
2	Shale	307	
19	Lime	326	Shells
4	Sandy Shale	330	
13	Sand & Sandy Shale	343	No Oil
55	Shale	398	
22	Lime	420	
12	Shale	432	
7	Shale & Lime	439	
6	Lime	445	
17	Shale	462	
7	Sand	469	No Oil
18	Lime	488	
3	Shale	491	
1	Lime	492	
13	Shale	505	

605

Thickness of Strata	Formation	Total Depth	Remarks
6	Lime	511	
1	Lime & Crystal	512	No Oil
16	Lime	528	
9	Shale	537	
22	Lime	559	
4	Shale	563	
4	Lime	567	
3	Shale	570	
6	Lime	576	
5	Shale	581	Hertha
14	Sandy Shale	595	
97	Shale	692	
16	Sand	708	No Oil
36	Shale	744	
10	Lime	754	
5	Shale	759	
2	Lime	761	
12	Shale	773	
5	Lime	778	
14	Shale	792	
3	Lime	795	
12	Shale	807	
3	Lime	810	
2	Shale	812	
4	Lime	816	
14	Shale	830	
1	Lime	831	

831

Thickness of Strata	Formation	Total Depth	Remarks
10	Shale	841	
3	Lime	844	
4	Shale	848	
6	Sandy Shale	854	
6	Sand	860	Broken - Poor Saturation
47	Sand	909	Solid - Good Saturation
23	Shale	926	
12	Sandy Shale	938	
13	Shale	951	
2	Sand	953	No Oil
1	Lime	954	
7	shale	961	
6	Sand	967	No Oil
33	Shale	1000	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 # 267527

Invoice Date: 04/23/2014 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-3
47077
NE 11-15-20
04-18-2014
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
1111	SODIUM CHLORIDE (GRANULA	87.00	.3900	33.93
1110A	KOL SEAL (50# BAG)	225.00	.4600	103.50

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-201.50

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	115.70	.00	.00
503 MIN. BULK DELIVERY	.50	368.00	184.00
675 80 BBL VACUUM TRUCK (CEMENT)	1.50	100.00	150.00

Amount Due 1923.68 if paid after 05/03/2014

Parts:	671.65	Freight:	.00	Tax:	33.62	AR	1707.77
Labor:	.00	Misc:	.00	Total:	1707.77		
Sublt:	-201.50	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

267527

TICKET NUMBER 47077

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
4-18-14	3244	Early AI-3	NE 11	15	20	OG

CUSTOMER <u>Altavista 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	Almad	Safety	Meat
368	Almad		
675	Ke: Det		
503	Ke: Car		

JOB TYPE <u>Surface</u>	HOLE SIZE <u>9 7/8</u>	HOLE DEPTH <u>118</u>	CASING SIZE & WEIGHT <u>7"</u>
CASING DEPTH <u>115.7</u>	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING <u>yes</u>
DISPLACEMENT <u>4 3/4</u>	DISPLACEMENT PSI <u>100</u>	MIX PSI _____	RATE <u>46pm</u>

REMARKS: Held meeting. Established rate. Mixal pumped 45 sk 50/50 cement plus 2% gel, 5% salt, 5# kalseal per sack. Circulated cement. Displaced casing with clean water. Closed valve.

TDS 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	115.7	casing footage	368	_____ ✓
5407	1/2 min	ten miles	503	184.00 ✓
5502C	1 1/2	80 vac	675	150.00 ✓
1124	45	50/50 cement	517.50	_____ ✓
1118B	76#	gel	16.72	_____ ✓
1111	87#	salt	33.93	_____ ✓
1110A	225	kalseal	103.50	_____ ✓
		material sub	671.65	_____ ✓
		less 30% -	201.50	_____ ✓
		material total		470.15 ✓
			1923.68	_____ ✓
		SALES TAX		33.62 ✓
		ESTIMATED TOTAL		1707.77 ✓

Ravin 3737



completed

AUTHORIZATION Bryan Hill

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 # 267594

Invoice Date: 04/24/2014 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-3
47065
NE 11-15-20
04-21-2014
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	145.00	11.5000	1667.50
1118B	PREMIUM GEL / BENTONITE	344.00	.2200	75.68
1111	SODIUM CHLORIDE (GRANULA	281.00	.3900	109.59
1110A	KOL SEAL (50# BAG)	725.00	.4600	333.50
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	-655.88

Description	Hours	Unit Price	Total
369 80 BBL VACUUM TRUCK (CEMENT)	2.00	100.00	200.00
495 CEMENT PUMP	1.00	1085.00	1085.00
495 EQUIPMENT MILEAGE (ONE WAY)	25.00	4.20	105.00
495 CASING FOOTAGE	989.00	.00	.00
548 MIN. BULK DELIVERY	.50	368.00	184.00

Amount Due 3973.53 if paid after 05/04/2014

Parts:	2239.40	Freight:	.00	Tax:	113.23	AR	3270.75
Labor:	.00	Misc:	.00	Total:	3270.75		
Sublt:	-655.88	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

267594

TICKET NUMBER 47065
LOCATION Ottawa KS.
FOREMAN Fred Madar

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			
4/21/14	3244	Early # A I-3	NE-11	15	20	DG.			
CUSTOMER Alta Vista Energy Inc		TRUCK #		DRIVER		TRUCK #		DRIVER	
MAILING ADDRESS P.O. Box 128		712		Frs Mad					
CITY Wellsville		495		Har Bec					
STATE KS		369		Der Mas					
ZIP CODE 66092		548		M. K. H. Co					

JOB TYPE Long string HOLE SIZE _____ HOLE DEPTH 1000' CASING SIZE & WEIGHT 2 7/8 EVF
CASING DEPTH 989' DRILL PIPE Baffle in tubing @ 957' OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 30' Plug
DISPLACEMENT 5.56 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Hold crew safety meeting. Establish pump rate. Pump 1/2 Gal HE-100 Polymer. Circulate to condition hole. Mix & Pump 100# Gel Flush. Mix & Pump 5ks 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 bottom casing. Pressure to 800# PSI. Release pressure to set float valve. Shut in casing.

TOS Drilling: Greg

Fred Madar

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085 ⁰⁰
5406	25 mi	MILEAGE	485	105 ⁰⁰
5402	989	Casing Footage		N/K
5407	Minimum	Ton Miles	548	184 ⁰⁰
5502C	2 hrs	80 BBL Vac Truck	369	200 ⁰⁰
1124	145 sks	50/50 Poz Mix Cement	1667 ⁵⁰	
1118B	344#	Premium Gel	75 ⁶⁸	
1111	281#	Granulated Salt	109 ⁵⁹	
1110A	725#	Kal Seal	333 ⁵⁰	
		Material	2186 ²⁷	
		Less 30%	-655 ⁸²	
		Total Material		1530 ³⁹
4402	1	2 1/2" Rubber Plug		29 ⁵⁰
1401	1/2 Gal	HE-100 Polymer		23 ⁶³
			3973.53	
			7.85%	
		SALES TAX		113 ²³
		ESTIMATED TOTAL		3270 ⁷⁵



completed

Revin 3737

AUTHORIZATION Bryan Hill 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