

Douglas County, KS
Well: Early A-4
Lease Owner: AltaVista

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

Commenced Spudding:
4/16/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-5	Soil-Clay	5
86	Sand	91
4	Lime	95
113	Shale	208
5	Lime	213
4	Shale	217
5	Shale	222
12	Lime	234
9	Shale	243
7	Lime	250
6	Shale	256
20	Lime	276
14	Shale	290
7	Sand	297
7	Shale	304
18	Lime	322
13	Sand	335
60	Shale	395
22	Lime	417
12	Shale	429
6	Shale	435
7	Lime	442
17	Shale	459
4	Sandy Shale	463
19	Lime	482
4	Shale	486
1	Lime	487
13	Shale	500
6	Lime	506
2	Lime	508
1	Shale	509
14	Lime	523
7	Shale	530
24	Lime	554
4	Shale	558
1	Lime	559
69	Shale	565
5	Lime	570
6	Shale	576
10	Sand	586

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. A-4

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-4

Elevation 1087
 Commenced Spuding 04/16 20 14
 Finished Drilling 04/17 20 14
 Driller's Name Gray Perry
 Driller's Name _____
 Driller's Name _____

Tool Dresser's Name Kenny Gunn
 Tool Dresser's Name Wes Dallard
 Tool Dresser's Name _____
 Contractor's Name TOS
 10 15 20

(Section) (Township) (Range)
 Distance from S line, 4405 ft.
 Distance from E line, 340 ft.

10 hours

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
916	45	Diff 14			
949	35	Total			

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
 8" Set _____ 8" Pulled _____
 7" Set 119.3' 6 3/4" Pulled _____
 4" Set _____ 4" Pulled _____
 2" Set _____ 2" Pulled _____

Thickness of Strata	Formation	Total Depth	Remarks
0-5	Soil - Clay	5	
86	Sand	91	
4	Lime	95	
113	Shale	208	
5	Lime	213	
4	Shale & Lime	217	
5	Shale	222	
12	Lime	234	
9	Shale	243	
7	Lime	250	
6	Shale	256	
20	Lime	276	Shells
14	Shale	290	
7	Sand & Sand Shale	297	No Oil
7	Shale	304	
18	Lime	322	Shells
13	Sand & Sandy Shale	335	No Oil
60	Shale	395	
22	Lime	417	
12	Shale	429	
6	Shale & Lime	435	
7	Lime	442	
17	Shale	459	
4	Sandy Shale	463	Odor
19	Lime	482	
4	Shale	486	
1	Lime	487	

487

Thickness of Strata	Formation	Total Depth	Remarks
13	Shale	500	
6	Lime	506	
2	Lime	508	
1	Lime Shale	509	White crystal, Oil - Oil Bleed
14	Lime	523	
7	Shale	530	
24	Lime	554	
4	Shale	558	
1	Lime	559	
6	Shale	565	
5	Lime	570	Hertha
6	Shale	576	
10	Sand	586	No Oil
3	Sandy Shale	589	
98	Shale	687	
15	Sand & Sandy Shale	702	No Oil
39	Shale	741	
9	Lime	750	
8	Shale	758	
2	Lime	760	
10	Shale	770	
4	Lime	774	
4	Shale	778	
2	Lime	780	
13	Shale	793	
3	Lime	796	
7	Shale	803	

803

Thickness of Strata	Formation	Total Depth	Remarks
2	Lime	805	
4	Shale	809	
5	Lime	814	
18	Shale	832	
2	Lime	834	
2	Shale	836	
2	Lime	838	
2	Shale	840	
4	Sandy Shale	844	
4	Sand	848	No Oil
14	Sand	862	Broken - Poor Saturation
4	Sand	866	Solid - OK Saturation
4	Sand	870	Broken - OK Saturation
8	Sand	878	Solid - OK Saturation
2	Sandy Shale	880	Broken - OK Saturation
13	Sand	893	Solid - Good Saturation
25	Shale	918	
25	Sandy Shale	943	
4	Sand	947	No Oil
1	Lime	948	
4	Shale	952	
7	Sand & Sandy Shale	959	No Oil
6	Shale	965	
9	Sand & Sandy Shale	974	No Oil
5	Sandy Shale	979	
21	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 # 267531

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-4
47018
NE 11-15-20
04-16-2014
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
1111	SODIUM CHLORIDE (GRANULA	105.00	.3900	40.95
1110A	KOL SEAL (50# BAG)	105.00	.4600	48.30

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-204.82

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 (SURFACE)	1.00	870.00	870.00
666 EQUIPMENT, MILEAGE (ONE WAY)	.00	4.20	.00
666 CASING FOOTAGE	119.00	.00	.00

Amount Due 1935.54 if paid after 05/03/2014

Parts:	682.73	Freight:	.00	Tax:	34.17	AR	1716.08
Labor:	.00	Misc:	.00	Total:	1716.08		
Sublt:	-204.82	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, L.L.C.

267531

TICKET NUMBER 47018

LOCATION Ottawa, KS

FOREMAN Casey 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
4/16/14	3244	Early # A-4	NE 11	15	20	DG
CUSTOMER <u>Attaista Energy</u>						
MAILING ADDRESS <u>PO Box 128</u>						
CITY <u>Wellsville</u>	STATE <u>KS</u>	ZIP CODE <u>66092</u>				
		TRUCK #	DRIVER	TRUCK #	DRIVER	
		<u>729</u>	<u>Cosken</u>	<u>✓ Safety</u>	<u>Meeting</u>	
		<u>666</u>	<u>Gar Moo</u>	<u>✓</u>		
		<u>558</u>	<u>Mat Coc</u>	<u>✓</u>		
		<u>370</u>	<u>Kei Det</u>	<u>✓</u>		

JOB TYPE surface HOLE SIZE 10" HOLE DEPTH 121' CASING SIZE & WEIGHT 7"
 CASING DEPTH 119' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 10'
 DISPLACEMENT 4.5 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 50 sks 50/50
Pozmix cement w/ 2% gel, 5% salt, + 5 # Kalseal per sk, cement to
surface, displaced cement w/ 4.5 bbls fresh water, shut in casing.

Handwritten signature/initials

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE		870.00 ✓
5406	on lease	MILEAGE		— ✓
5402	119'	casing footage		— ✓
5407	1/2 minimum	ton mileage		184.00 ✓
5502C	1.5 hrs	80 vac		150.00 ✓
1124	50 sks	50/50 Pozmix cement	575.00 ✓	
118B	84 #	Premium Gel	18.48 ✓	
1111	105 #	Salt	40.95 ✓	
1110A	105 #	Kalseal	48.30 ✓	
		materials	682.73	
		-30%	-204.82	
		subtotal		477.91
			1935.54	
			SALES TAX	34.17 ✓
			ESTIMATED TOTAL	1716.08 ✓

Completed

Revin 3737 AUTHORIZATION Bryon 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.



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
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 P.O. BOX 128
 WELLSVILLE KS 66092
 (785) 883-4057

EARLY A-4
 47020
 NE 11-15-20
 04-17-2014
 KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	146.00	11.5000	1679.00
1118B	PREMIUM GEL / BENTONITE	445.00	.2200	97.90
1111	SODIUM CHLORIDE (GRANULA	307.00	.3900	119.73
1110A	KOL SEAL (50# BAG)	730.00	.4600	335.80
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50
Sublet Performed				
9996-120	CEMENT MATERIAL DISCOUNT			-669.73
Description				
370	80 BBL VACUUM TRUCK (CEMENT)	1.50	100.00	150.00
510	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	945.00	.00	.00

Amount Due 3926.66 if paid after 05/03/2014

Parts:	2261.93	Freight:	.00	Tax:	113.84	AR	3209.04
Labor:	.00	Misc:	.00	Total:	3209.04		
Sublt:	-669.73	Supplies:	.00	Change:	.00		

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

267528

TICKET NUMBER 47020

LOCATION Ottawa, KS

FOREMAN Casey 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
4/17/14	3244	Early # A-4	NE 11	15	20	DG

CUSTOMER
Atavista Energy

MAILING ADDRESS
PO Box 128

CITY
Wellsville

STATE
KS

ZIP CODE
66092

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Casey Ken	✓ Safety	Machine
6660	Gar Moo	✓	
510	Set Juc	✓	
370	Jas Ric	✓	

JOB TYPE long string HOLE SIZE 5 3/8" HOLE DEPTH 990' CASING SIZE & WEIGHT 2 7/8" EUE

CASING DEPTH 945' DRILL PIPE _____ TUBING baffle- 910' OTHER _____

SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 291

DISPLACEMENT 5.30 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped 200# Premium Gel followed by 10 bbls fresh water, mixed + pumped 146 sks 50/50 Pozmix cement w/ 2% gel, 5% salt, + 5# Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 5.30 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		105.00 ✓
5406	20 mi	MILEAGE		84.00 ✓
5402	945'	casing footage		✓
5407	1/2 minimum	ten mileage		184.00 ✓
5502C	1.5 hrs	80 Vcc		150.00 ✓
112V	146 sks	50/50 Pozmix cement	11679.00 ✓	
1118B	445 #	Premium Gel	97.90 ✓	
1111	307 #	Salt	119.73 ✓	
1110A	730 #	Kalseal	335.80 ✓	
		materials	2232.43	
		- 30%	- 669.73 ✓	
		Subtotal		15602.70 ✓
4402	1	2 1/2" rubber plug		28.50 ✓
			3926.66	
			7.15%	
		SALES TAX		113.84 ✓
		ESTIMATED TOTAL		3209.04 ✓

Ravin 3737



AUTHORIZATION Bryan Miller TITLE _____ DATE _____

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