

Douglas County, KS
Well:Early AI-1
Lease Owner:Altavista

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

Commenced Spudding:
04/22/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-3	soil/clay	3
48	sand	51
4	lime and sand	55
134	shale	189
5	lime	194
5	shale	199
16	lime	215
8	shale	223
7	lime	230
6	shale	236
18	lime	254
12	shale	266
4	sand and sandy shale	270
17	shale	287
19	lime	306
4	sandy shale	310
9	sand	319
60	shale	379
23	lime	402
15	shale	417
8	lime	425
15	shale	440
8	sand and sandy shale	448
20	lime	468
3	shale	471
1	lime	472
13	shale	485
5	lime	490
1	lime crystals	491
2	lime	493
1	shale	494
15	lime	509
7	shale	516
24	lime	540
3	shale	543
4	lime	547
4	shale	551
4	lime	555
6	shale	561
11	sand	572

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 - $\text{RPM} \times d$ over $\text{SPM} \times R$

d - $\text{SPM} \times R \times D$ over RPM

SPM - $\text{RPM} \times D$ over $R \times d$

R - $\text{RPM} \times D$ over $\text{SPM} \times d$

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$

746 WATTS equal 1 HP

Log Book

Well No. AI-1

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-1

Elevation 1091
 Commenced Spuding 04/22 20 14
 Finished Drilling 04/23 20 14

Driller's Name Greg Perry
 Driller's Name _____
 Driller's Name _____

Tool Dresser's Name Kenny Green
 Tool Dresser's Name Wes Delland
 Tool Dresser's Name _____
 Contractor's Name TOS
 11 15 20

(Section) (Township) (Range)
 Distance from S line, 4730 ft.
 Distance from E line, 230 ft.

CASING AND TUBING MEASUREMENTS

Feet		In.		Feet		In.	
927				Baffle			
938	80			Total			

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
 8" Set _____ 8" Pulled _____
 7" ~~8"~~ Set 72.5' 6 1/4" Pulled _____
 4" Set _____ 4" Pulled _____
 2" Set _____ 2" Pulled _____

Thickness of Strata	Formation	Total Depth	Remarks
0-3	Soil-Clay	3	
48	Sand	51	
4	Lime & Sand	55	
134	Shale	189	
5	Lime	194	
5	Shale	199	
16	Lime	215	
8	Shale	223	
7	Lime	230	
6	Shale	236	
18	Lime	254	Shells
12	Shale	266	
4	Sand & Sandy Shale	270	No Oil
17	Shale	287	
19	Lime	306	Shells
4	Sandy Shale	310	
9	Sand	319	No Oil
60	Shale	379	
23	Lime	402	
15	Shale	417	
8	Lime	425	
15	Shale	440	
8	Sand & Sandy Shale	448	No Oil
20	Lime	468	
3	Shale	471	
1	Lime	472	
13	Shale	485	

485

Thickness of Strata	Formation	Total Depth	Remarks
5	Lime	490	
1	Lime Crystals	491	
2	Lime	493	Oil - Heavy Bleed
1	Shale	494	
15	Lime	509	
7	Shale	516	
24	Lime	540	
3	Shale	543	
4	Lime	547	
4	Shale	551	
4	Lime	555	Hertha
6	Shale	561	
11	Sand	572	No Oil
103	Shale	675	
11	Sand	686	No Oil
40	Shale	726	
8	Lime	734	
18	Shale	752	
10	Lime	762	
12	Shale	774	
3	Lime	777	
9	Shale	788	
3	Lime	791	
2	Shale	793	
2	Lime	795	
6	Shale & Lime	801	
11	Shale	812	

812

Thickness of Strata	Formation	Total Depth	Remarks
1	Lime	813	
7	Shale	820	
1	Lime	821	
2	Shale	823	
2	Lime	825	
6	Shale	831	
2	Sand	833	Slight Show
5	Sand/Lime	838	No Oil
2	Sand	840	Broken - Good saturation
2	Sand	842	Broken - Poor saturation
14	Sand	856	Solid - Poor saturation
4	Sand	860	Solid - Good saturation
6	Sand	866	Solid - Poor saturation
20	Sand	886	Solid - Good saturation
2	Sand	888	No Oil
47	Shale	935	
2	Lime	937	
6	Sand	943	No Oil
37	Shale	980	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 # 267597

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-1
47115
NE 11-15-20
04-22-2014
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	35.00	11.5000	402.50
1118B	PREMIUM GEL / BENTONITE	59.00	.2200	12.98
1111	SODIUM CHLORIDE (GRANULA	68.00	.3900	26.52
1110A	KOL SEAL (50# BAG)	175.00	.4600	80.50

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-156.75

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	73.00	.00	.00
548 MIN. BULK DELIVERY	.50	368.00	184.00
675 80 BBL VACUUM TRUCK (CEMENT)	1.50	100.00	150.00

Amount Due 1763.87 if paid after 05/04/2014

Parts:	522.50	Freight:	.00	Tax:	26.16	AR	1595.91
Labor:	.00	Misc:	.00	Total:	1595.91		
Sublt:	-156.75	Supplies:	.00	Change:	.00		

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

267597

TICKET NUMBER 47115

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
4/22/14	3244	Early # A.I.1	NE 11	15	20	DG

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
712	Fred Mad		
495	Har Bec		
675	Kai Dat		
548	Mik Hae		

JOB TYPE <u>Surface</u>	HOLE SIZE <u>978</u>	HOLE DEPTH <u>74'</u>	CASING SIZE & WEIGHT <u>7"</u>
CASING DEPTH <u>73'</u>	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING <u>10'</u>
DISPLACEMENT <u>3.5BBL</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>5BPM</u>

REMARKS: Hold a new safety meeting. Establish pump rate thru 7" casing
Mix & Pump 35 SKS 50/50 Por Mix Cement 2% Gel 5% Salt
5# Kol Seal/sk. Cement to surface. Displace 7" casing clean
w/ BBL water. Shut in casing.

TOS Drilling - Greg Perry

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405	1	PUMP CHARGE Surface Cement	495	870.00 ✓
5406	-	MILEAGE		N/C ✓
5402	73'	Casing footage		N/C ✓
5407	1/2 Minimum	Ton Miles		184.00 ✓
5502C	1 1/2 hr	60 BBL Vac Truck		150.00 ✓
1124	35 SKS	50/50 Por Mix Cement	402.50	✓
115B	59#	Premium Gel	128.00	✓
1111	68#	Granulated Salt	26.52	✓
110A	175#	Kol Seal	80.50	✓
		Material	522.50	
		less 30%	156.75	✓
		Total Material		365.75
		<input checked="" type="checkbox"/> completed	1763.87	
		7.15%	SALES TAX	26.16 ✓
			ESTIMATED TOTAL	1595.91 ✓

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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



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 # 267667

Invoice Date: 04/28/2014 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-1
47119
NE 11-15-20
04-23-2014
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	123.00	11.5000	1414.50
1118B	PREMIUM GEL / BENTONITE	307.00	.2200	67.54
1111	SODIUM CHLORIDE (GRANULA	228.00	.3900	88.92
1110A	KOL SEAL (50# BAG)	615.00	.4600	282.90
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	-556.16

Description	Hours	Unit Price	Total
495 CEMENT PUMP	1.00	1085.00	1085.00
495 EQUIPMENT MILEAGE (ONE WAY)	25.00	4.20	105.00
495 CASING FOOTAGE	959.00	.00	.00
548 MIN. BULK DELIVERY	1.00	122.67	122.67
675 80 BBL VACUUM TRUCK (CEMENT)	1.50	100.00	150.00

Amount Due 3506.02 if paid after 05/08/2014

Parts:	1906.99	Freight:	.00	Tax:	96.59	AR	2910.09
Labor:	.00	Misc:	.00	Total:	2910.09		
Sublt:	-556.16	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.

267667

TICKET NUMBER 47119
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
9/23/14	3244	Early # AI-1	NE 11	15	20	DC

CUSTOMER <u>Alta Vista 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
712	Fred Mad		
495	Hal Bac		
675	McC Det		
548	Mik Har		

JOB TYPE <u>Long string</u>	HOLE SIZE <u>5 7/8</u>	HOLE DEPTH <u>980</u>	CASING SIZE & WEIGHT <u>2 1/8 EUE</u>
CASING DEPTH <u>959</u>	DRILL PIPE <u>Baffle in</u>	TUBING @ <u>927'</u>	OTHER _____
SLURRY WEIGHT _____	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING <u>30' + PLY</u>
DISPLACEMENT <u>5.4 BBL</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>58 PM</u>

REMARKS: Hold crew safety meeting. Establish pump rate Pump 1/2 Gal HE-100 Polymer Flush. Circulate to conditioner hole. Mix + pump 100# Gel Flush. Mix + Pump 123 sks 50/50 Por Mix Cement 2% Gel 5% Salt 5# Kol Seal/sk. Cement to surface Flush pump + lines clean. Displace 2 1/2" Rubber plug to baffle in casing. Pressure to 800# PSI. Release pressure to set float valve. Shut in casing.

TAS Drilling Greg

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085 ⁰⁰
5406	25 mi	MILEAGE	495	105 ⁰⁰
5402	959	Casing footage		N/C
5407	1/3 minimum	Ton Miles	598	122 ⁶⁷
5502C	1 1/2 hr	50 BBL Voc Truck	675	150 ⁰⁰
1124	123 sks	50/50 Por Mix Cement	1414 ⁵⁰	
1118B	302 #	Premium Gel	675 ⁴	
1111	225 #	Granulated Salt	882 ²	
1110A	615 #	Kol Seal	282 ²⁰	
		Material	1853 ⁸⁶	
		Less - 30%	-556 ¹⁶	
		Total Material		1297 ⁷⁰
4402	1	2 1/2" Rubber Plug		29 ⁵⁰
7401	1/2 Gal	HE 100 Polymer		23 ⁶³
			3506 ⁰⁰	
			7.15%	96 ⁵⁹
			ESTIMATED TOTAL	2910 ⁰⁹

completed

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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.