

Douglas County, KS
Well: Early AI-6
Lease Owner:AltaVista

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

Commenced Spudding:
4/9/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-6	Soil-Clay	6
45	Sand	51
145	Shale	196
6	Lime	202
5	Shale and Lime	207
3	Shale	210
14	Lime	224
8	Shale	232
7	Lime	239
6	Shale	245
18	Lime	263
11	Shale	274
4	Sand	278
8	Shale	286
3	Sandy Shale	289
5	Shale	294
19	Lime	313
5	Sandy Shale	318
7	Sand	325
62	Shale	387
22	Lime	409
16	Shale	425
8	Lime	433
16	Shale	449
3	Sand	452
1	Sand	453
3	Sand	456
18	Lime	474
5	Shale	479
1	Lime	480
13	Shale	493
23	Lime	516
8	Shale	524
24	Lime	548
4	Shale	552
3	Lime	555
4	Shale	559
5	Lime	564
6	Shale	570
8	Sand	578

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times h \times 14$

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-6

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
 K5 State; Well No. AI-6

Elevation 1061

Commenced Spuding 04/09 20 14

Finished Drilling 04/10 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, 3300 ft.
 Distance from E line, 1220 ft.

12 hours

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
 8" Set _____ 8" Pulled _____
~~7 1/2"~~ 7 1/2" Set 73.0 6 1/4" Pulled _____
 4" Set _____ 4" Pulled _____
 2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
936	55	Baffle			
969	50	Total			

Thickness of Strata	Formation	Total Depth	Remarks
0-6	Soil - Clay	6	
45	Sand	51	
145	Shale	196	
6	Lime	202	
5	Shale & Lime	207	
3	Shale	210	
14	Lime	224	
8	Shale	232	
7	Lime	239	
6	Shale	245	
18	Lime	263	Shells
11	Shale	274	
4	Sand	278	No Oil
8	Shale	286	
3	Sandy Shale	289	
5	Shale	294	
19	Lime	313	Shells
5	Sandy Shale	318	
7	Sand	325	No Oil
62	Shale	387	
22	Lime	409	
16	Shale	425	
8	Lime	433	
16	Shale	449	No Oil
3	Sand	452	Odor - Slight show No Oil
1	Sand	453	Odor - Slight show
3	Sand	456	No Oil

450

Thickness of Strata	Formation	Total Depth	Remarks
18	Lime	474	
5	Shale	479	
1	Lime	480	
13	Shale	493	
23	Lime	516	
8	Shale	524	
24	Lime	548	
4	Shale	552	
3	Lime	555	
4	Shale	559	
5	Lime	564	
6	shale	570	Heitha
8	Sand	578	
2	Sandy Strata Shale	580	Odor
64	Shale	644	
13	Sandy Shale	657	
26	Shale	683	
12	Sand & Sandy Shale	695	No Oil
43	Shale	738	
8	Lime	746	
6	Shale	752	
3	Lime	755	
10	Shale	765	
8	Lime	773	
14	Shale	787	
3	Lime	790	
7	Shale	797	

797

Thickness of Strata	Formation	Total Depth	Remarks
2	Lime	799	
4	Shale	803	
10	Lime	813	
14	shale	827	
1	Lime	828	
9	Shale	837	
1	Lime	839	
15	Shale	854	
4	Sand	858	Broken
21	Sand	879	Solid - Good Saturation
30	Shale	909	
6	Sands Sandy Shale	915	
25	Shale	940	
5	Lime	945	
10	Sand	955	Odor
5	Shale	960	
5	Red bed	965	
4	Shale	969	
1	Lime	970	
30	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 # 267323

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-6
47040
NE 11-15-20
04-09-2014
KS

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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

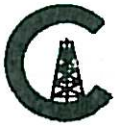
Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-134.35

Description	Hours	Unit Price	Total
368 CEMENT PUMP (SURFACE)	1.00	870.00	870.00
368 EQUIPMENT MILEAGE (ONE WAY)	.00	4.20	.00
368 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 04/24/2014

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 _____



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

267323

TICKET NUMBER 47040

LOCATION Ottawa KS

FOREMAN Fred Maden

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-9-14	3244	Early # A.I. 6	NE 11	15	20	D6
CUSTOMER <u>Altavista Energy</u>			TRUCK #			
MAILING ADDRESS <u>P.O. Box 128</u>			DRIVER			
CITY <u>Wellsville</u>		STATE <u>KS</u>	ZIP CODE <u>66092</u>		TRUCK #	
			DRIVER			

JOB TYPE <u>Surface</u>	HOLE SIZE <u>9 1/4</u>	HOLE DEPTH <u>75</u>	CASING SIZE & WEIGHT <u>7"</u>
CASING DEPTH <u>22'</u>	DRILL PIPE	TUBING	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>10'</u>
DISPLACEMENT <u>2.2500</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>4BPM</u>

REMARKS: Hold a crew safety meeting. Establish pump rate 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/ 2.25 BBL water. Shot in casing.

TOS Drilling - Greg.

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE <u>Surface Cement</u>	368	870.00 ✓
5406	-	MILEAGE		N/C ✓
5402	22	Casing footage		N/C ✓
5407	1/2 Minimum	Ton Miles	503	184.00 ✓
5502C	2hrs	80 BBL Vac Truck	675	200.00 ✓
1124	30 sks	50/50 Por Mix Cement	345.00 ✓	
1118B	51 #	Premium Gel	11.23 ✓	
1111	58 #	Granulated Salt	22.62 ✓	
1110A	150 #	Kol Seal	68.00 ✓	
		Material	447.84 ✓	
		Less 30%	-134.33 ✓	
		Total Material		313.51 ✓
			1733.80	

completed

Ravin 3737

AUTHORIZATION Bryan Mills TITLE _____ DATE _____

SALES TAX 22.41 ESTIMATED TOTAL 1589.90

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



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 # 267324

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-6
47046
NE 11-15-20
04-10-2014
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	141.00	11.5000	1621.50
1118B	PREMIUM GEL / BENTONITE	337.00	.2200	74.14
1111	SODIUM CHLORIDE (GRANULA	272.00	.3900	106.08
1110A	KOL SEAL (50# BAG)	705.00	.4600	324.30
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	-637.81

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	969.00	.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 3937.96 if paid after 04/24/2014

Parts:	2179.15	Freight:	.00	Tax:	110.21	AR	3254.55
Labor:	.00	Misc:	.00	Total:	3254.55		
Sublt:	-637.81	Supplies:	.00	Change:	.00		

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

267324

TICKET NUMBER 47046
LOCATION Ottawa
FOREMAN Alan Maden

PO Box 684, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-10-14	3244	Early AT-6	NE 11	15	20	DG
CUSTOMER Altavista Energy			TRUCK #			
MAILING ADDRESS PO Box 128			DRIVER		TRUCK #	
CITY Wellsville			DRIVER		TRUCK #	
STATE KS			DRIVER		TRUCK #	
ZIP CODE 66092			DRIVER		TRUCK #	
			DRIVER		TRUCK #	
			DRIVER		TRUCK #	
			DRIVER		TRUCK #	

JOB TYPE long string HOLE SIZE 3 7/8 HOLE DEPTH 1000 CASING SIZE & WEIGHT 2 3/8
CASING DEPTH 969 DRILL PIPE _____ TUBING _____ OTHER bf 936
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING yes
DISPLACEMENT 4.66 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm

REMARKS: Held meeting. Established rate down casing. Mixed and pumped 42 gal polymer. Circulated in to clean pit. Mixed & pumped 100# gel followed by 141 sk 50/50 cement plus 2 1/2 gal 50% salt 3# 15olseal per sack. Circulated cement. Flushed pump. Pumped plug to casing before well held 800 PSI. Set float. Closed valve.

TDS, Greg

Alan Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	365	1085.00
5706	20	MILEAGE	368	8400
5702	969	casing footage	368	18400
5707	1/2 min	ton miles	548	250.00
5502L	2 1/2	80 var	369	1491.71
1124	141	50/50 cement	1621.50	229.50
1118B	337#	gel	74.14	23.63
1111	272#	salt	106.08	29.52
1112A	705#	15olseal	324.30	23.63
		Material sub	2131.02	
		less 30% -	637.81	
		Material total		1491.71
4402	1	2 1/2 plug		29.52
1401	1/2 gal	polymer		23.63
		completed	3937.96	
		SALES TAX		110.21
		ESTIMATED TOTAL		3254.55

Ravin 3737

AUTHORIZATION Bryan Miller TITLE _____ DATE _____

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