



KANSAS CORPORATION COMMISSION 1104811  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 34350  
Name: Altavista Energy, Inc.  
Address 1: 4595 K-33 Highway  
Address 2: PO BOX 128  
City: WELLSVILLE State: KS Zip: 66092 + \_\_\_\_\_  
Contact Person: Phil Frick  
Phone: ( 785 ) 883-4057  
CONTRACTOR: License # 33715  
Name: Town Oilfield Service  
Wellsite Geologist: None  
Purchaser: \_\_\_\_\_

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
08/03/2012    08/07/2012    08/07/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-045-21800-00-00  
Spot Description: \_\_\_\_\_  
NE NW NE SW Sec. 1 Twp. 15 S. R. 20  East  West  
2415 Feet from  North /  South Line of Section  
3435 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Douglas  
Lease Name: Mary Bell Well #: AI-20  
Field Name: \_\_\_\_\_  
Producing Formation: Squirrel  
Elevation: Ground: 1043 Kelly Bushing: 1043  
Total Depth: 940 Plug Back Total Depth: 870  
Amount of Surface Pipe Set and Cemented at: 42 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: 901  
feet depth to: 0 w/ 114 sx cnt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 0 ppm Fluid volume: 30 bbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Gamson Date: 12/19/2012



1104811

Operator Name: Altavista Energy, Inc. Lease Name: Mary Bell Well #: AI-20  
 Sec. 1 Twp. 15 S. R. 20  East  West County: Douglas

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Gamma Ray/Neutron/CCL	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Squirrel</td> <td>819</td> <td>+224</td> </tr> </table>	Name	Top	Datum	Squirrel	819	+224
Name	Top	Datum					
Squirrel	819	+224					

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	9.875	7	19	42	Portland	5	NA
Production	5.625	2.875	7	901	50/50 Poz	114	See Ticket

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
3	819-840 - 62 Perfs - 2" DML RTG		

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. 09/17/2012		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. 2	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Dougals County, KS  
Well: Mary Bell AI-20  
Lease Owner: AltaVista

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

Commenced Spudding:  
8/3/2012

WELL LOG

Thickness of Strata	Formation	Total Depth
0-15	Soil-Clay	15
4	Wet Clay	19
143	Shale	162
5	Lime	167
6	Shale	173
15	Lime	188
7	Shale	195
7	Lime	202
7	Shale	209
23	Lime	232
13	Shale	245
7	Lime	252
5	Shale	257
19	Lime	276
74	Shale	350
23	Lime	373
17	Shale	390
7	Lime	397
24	Shale	421
16	Lime	437
7	Shale	444
2	Lime	446
6	Shale	452
29	Lime	481
7	Shale	488
24	Lime	512
4	Shale	516
4	Lime	520
5	Shale	525
5	Lime	530
173	Shale	703
5	Lime	708
6	Shale	714
4	Lime	718
8	Shale	726
8	Lime	734
15	Shale	749
3	Lime	752
20	Shale	772
1	Lime	773





# 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 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 -  $RPM \times d$  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-20

Farm Mary Bell

KS Douglas  
(State) (County)

1 15 20  
(Section) (Township) (Range)

For Altavista Energy  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East  
Louisburg, KS 66053  
913-710-5400



Thickness of Strata	Formation	Total Depth	Remarks
0-15	soil-clay	15	
4	wet clay	19	water
143	shale	162	
5	Lime	167	
6	shale	173	
15	Lime	188	
7	shale	195	
7	Lime	202	
7	shale	209	
23	Lime	232	
13	shale	245	
7	Lime	252	
5	shale	257	
19	Lime	276	
74	shale	350	
23	Lime	373	
17	shale	390	
7	Lime	397	
24	shale	421	
16	Lime	437	
7	shale	444	
2	Lime	446	
6	shale	452	
29	Lime	481	
7	shale	488	
24	Lime	512	
4	shale	516	



516

Thickness of Strata	Formation	Total Depth	Remarks
4	Lime	520	
5	Shale	525	
5	Lime	530	Hertha
173	shale	703	
5	Lime	708	
6	shale	714	
4	Lime	718	
8	shale	726	
8	Lime	734	
15	shale	749	
3	Lime	752	
20	shale	772	
1	Lime	773	
15	shale	788	
12	shale & lime	800	
2	Lime	802	
11	shale	813	
5	sandy shale	818	
1	sand	819	odor - no show
19.5	core	838.5	
1.5	sand	840	solid oil - perf
100	shale	940	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 # 251905

Invoice Date: 08/14/2012 Terms: 0/0/30,n/30

Page 1

ALTAVISTA ENERGY INC  
4595 K-33 HIGHWAY  
P.O. BOX 128  
WELLSVILLE KS 66092  
(785)883-4057

MARY BELL AI-20  
37444  
1-15-20  
08-07-2012  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	114.00	10.9500	1248.30
1118B	PREMIUM GEL / BENTONITE	292.00	.2100	61.32
1111	SODIUM CHLORIDE (GRANULA	220.00	.3700	81.40
1110A	KOL SEAL (50# BAG)	570.00	.4600	262.20
1401	HE 100 POLYMER	.50	47.2500	23.63
4402	2 1/2" RUBBER PLUG	1.00	28.0000	28.00

Description	Hours	Unit Price	Total
368 CEMENT PUMP	1.00	1030.00	1030.00
368 EQUIPMENT MILEAGE (ONE WAY)	25.00	4.00	100.00
368 CASING FOOTAGE	901.00	.00	.00
T-106 WATER TRANSPORT (CEMENT)	2.00	112.00	224.00
510 MIN. BULK DELIVERY	1.00	350.00	350.00

Parts: 1704.85 Freight: .00 Tax: 124.46 AR 3533.31  
 Labor: .00 Misc: .00 Total: 3533.31  
 Sublt: .00 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  
785/672-2227

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

GILLETTE, WY  
307/686-4914



**CONSOLIDATED**  
Oil Well Services, LLC

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

TICKET NUMBER 37444  
LOCATION Ottawa  
FOREMAN Alan Mader

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-7-12	3244	Mary Bell AI-20	SW 1	15	20	D6
CUSTOMER <u>Altavista Energy</u>			TRUCK #			
MAILING ADDRESS <u>P.O. Box 128</u>			DRIVER			
CITY <u>Wellsville</u>			TRUCK #			
STATE <u>KS</u>			DRIVER			
ZIP CODE <u>66092</u>			TRUCK #			
			DRIVER			

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 940 CASING SIZE & WEIGHT 2 7/8  
CASING DEPTH 901 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER Buttle 869  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING yes  
DISPLACEMENT 5 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm

REMARKS: Held crew meet. Established rate. Mixed & pumped 1/2 gal polymer + 100# gel to condition hole. Mixed & pumped 114 SK 50150 cement plus 5# Kol-seal, 5% salt, 20# gel per sk. Circulated cement. Flushed pump. Pumped plug to casing TD. Well held 800 PSI. Set float. Closed valve.

TDS Wes  
Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL	
5401	1	PUMP CHARGE	368	1030.00	
5406	25	MILEAGE	368	100.00	
5402	901	Casing footage	368	—	
5407	min	ton miles	310	350.00	
5501C	2	transport	1106	224.00	
1124	114	50150 cement		1248.30	
118B	292#	gel		61.32	
1111	220#	salt		81.40	
110A	570#	Kolseal		262.20	
1401	1/2 gal	polymer		23.63	
4402	1	2 1/2 plug		28.00	
				SALES TAX	124.46
				ESTIMATED TOTAL	3533.31

Ravin 3737  
NO COMPANY REP  
AUTHORIZATION Jim DKD 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

251905