

**KANSAS CORPORATION COMMISSION 1090123**  
**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     SIOW  
 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 #: \_\_\_\_\_  

<u>06/12/2012</u>	<u>06/13/2012</u>	<u>06/13/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-25917-00-00  
 Spot Description: \_\_\_\_\_  
NE NE SE NW Sec. 19 Twp. 16 S. R. 21  East  West  
3790 Feet from  North /  South Line of Section  
2925 Feet from  East /  West Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
 County: Franklin  
 Lease Name: Brown Well #: AI-12  
 Field Name: \_\_\_\_\_  
 Producing Formation: Squirrel  
 Elevation: Ground: 951 Kelly Bushing: 951  
 Total Depth: 780 Plug Back Total Depth: 723  
 Amount of Surface Pipe Set and Cemented at: 21 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set: \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from: 754  
 feet depth to: 0 w/ 98 sx cmt.

**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	
<input type="checkbox"/> Letter of Confidentiality Received	Date: _____
<input type="checkbox"/> Confidential Release Date: _____	
<input checked="" type="checkbox"/> Wireline Log Received	
<input type="checkbox"/> Geologist Report Received	
<input checked="" type="checkbox"/> UIC Distribution	
ALT <input type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III	Approved by: <u>Deanna Gerrits</u> Date: <u>08/15/2012</u>



1090123

Operator Name: Altavista Energy, Inc. Lease Name: Brown Well #: AI-12  
 Sec. 19 Twp. 16 S. R. 21  East  West County: Franklin

**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 type="checkbox"/> Yes <input checked="" 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>683</td> <td>+268</td> </tr> </table>	Name	Top	Datum	Squirrel	683	+268
Name	Top	Datum					
Squirrel	683	+268					

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	20	21	Portland	3	NA
Production	5.625	2.875	6	754	50/50 Poz	98	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	683-691 - 25 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.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls.	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: _____ _____
---	--	--

Franklin County, KS  
 Well: Brown AI-12  
 Lease Owner: AltaVista

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

Commenced Spudding:  
 6/12/2012

WELL LOG

Thickness of Strata	Formation	Total Depth
0-5	Soil-Clay	5
8	Lime	13
9	Shale	22
11	Lime	33
4	Shale	37
16	Lime	53
43	Shale	96
30	Lime	126
9	Shale	135
7	Lime	142
45	Shale	187
19	Lime	206
29	Shale	235
7	Lime	242
25	Shale	267
10	Lime	277
22	Shale	299
10	Lime	309
2	Shale	311
14	Lime	325
6	Shale	331
23	Lime	354
4	Shale	358
3	Lime	361
2	Shale	363
7	Lime	370
110	Shale	480
8	Sand & Lime	488
27	Shale	515
8	Lime	523
8	Shale	531
1	Lime	532
3	Shale	535
7	Lime	542
6	Shale	548
9	Lime	557
9	Shale	566
6	Lime	572
15	Shale	587
3	Lime	590



# 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 -  $RPM \times d$  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  $SPM \times d$

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

\* Need these to figure belt length

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

746 WATTS equal 1 HP

# Log Book

Well No. AI-12

Farm Brown

KS Franklin  
 (State) (County)

19 16 21  
 (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
0-5	Soil-clay	5	
8	Lime	13	
9	Shale	22	
11	Lime	33	
4	shale	37	
16	Lime	53	
43	shale	96	
30	Lime	126	
9	shale	135	
7	Lime	142	
45	shale	187	
19	Lime	206	
29	Shale	235	
7	Lime	242	
25	shale	267	
10	Lime	277	
22	shale	299	
10	Lime	309	
2	shale	311	
14	Lime	325	
6	shale	331	
23	Lime	354	
4	shale	358	
3	Lime	361	
2	shale	363	
7	Lime	370	
110	shale	480	

480

Thickness of Strata	Formation	Total Depth	Remarks
8	sand & lime	488	no Oil
27	shale	515	
8	Lime	523	
8	shale	531	
1	Lime	532	
3	shale	535	
7	Lime	542	
6	shale	548	
9	Lime	557	
9	shale	566	
6	Lime	572	
15	shale	587	
3	Lime	590	
10	shale	600	
2	Lime	602	
2	shale	604	
3	Lime	607	
5	shale	612	
1	Lime	613	
8	shale	621	
3	limey sand	624	solid Oil - good bleed
2	lime	626	no Oil
6	sandy shale	632	no Oil
2	sandy, shale	634	10% Oil
5	sand	639	solid Oil
6	sand	645	10-20% Oil
6	sandy shale	651	no Oil

4

-5-



651

Thickness of Strata	Formation	Total Depth	Remarks
34	shale	685	
1	sandy shale	686	20% Oil
5	sand	691	75% Oil
6	sandy shale	697	no Oil
83	shale	780	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 # 250534

Invoice Date: 06/15/2012 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

BROWN AI-12  
37301  
19-16-21  
06-13-2012  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	98.00	10.9500	1073.10
1118B	PREMIUM GEL / BENTONITE	265.00	.2100	55.65
1111	SODIUM CHLORIDE (GRANULA	190.00	.3700	70.30
1110A	KOL SEAL (50# BAG)	490.00	.4600	225.40
4402	2 1/2" RUBBER PLUG	1.00	28.0000	28.00
1401	HE 100 POLYMER	.50	47.2500	23.63

Description	Hours	Unit Price	Total
369 80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00
495 CEMENT PUMP	1.00	1030.00	1030.00
495 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.00	80.00
495 CASING FOOTAGE	.00	.22	.00
548 MIN. BULK DELIVERY	1.00	350.00	350.00

Parts: 1476.08 Freight: .00 Tax: 115.12 AR 3231.20  
 Labor: .00 Misc: .00 Total: 3231.20  
 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  
307/686-4814



**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 37301  
LOCATION Ottawa KS  
FOREMAN Fred Maden

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8876

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6/13/12	3244	Brown # AI-12	NW 19	16	21	FR
CUSTOMER			TRUCK #			
Alta Vista Energy			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 128			DRIVER			
CITY		STATE	ZIP CODE			
Wellsville		KS	66092			

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 780 CASING SIZE & WEIGHT 2 1/8 EUE  
CASING DEPTH 7580 DRILL PIPE Baffle in TUBING @ 726' OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 2 1/2 Plug +  
DISPLACEMENT 4.22 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 APM

REMARKS: Establish pump rate. Mix Pump 1/2 Gal NE-100 Polymer Flush. Circulate to condition hole. Mix + Pump 100" Gal Flush. Mix + Pump 98 sks 50/50 Por Mix Cement 2 1/2 Gal 5% Salt 5" Hal 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.

TDS Drilling - Wesley Ballard

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1020 <sup>00</sup>
5406	20 mi	MILEAGE	495	80 <sup>00</sup>
5402		Casing footage		N/C
5407	Minimum	Ten Miles	548	350 <sup>00</sup>
5502c	2 hrs	For 800 Vac truck	369	180 <sup>00</sup>
1124	98 SKS	50/50 Por Mix Cement		1023 <sup>10</sup>
1118B	265*	Premium Gel		5565
1111	190 <sup>#</sup>	Granulated Salt		70 <sup>20</sup>
1110A	490 <sup>#</sup>	K01 Seal		225 <sup>00</sup>
4402	1	2 1/2" Rubber Plug		28 <sup>00</sup>
1401	1/2 Gal	NE-100 Polymer		23 <sup>63</sup>
			7.875	SALES TAX
				ESTIMATED TOTAL
				3231 <sup>20</sup>

Revin 3737

Jim John

250534

AUTHORIZATION \_\_\_\_\_ 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.