Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1298464

Form ACO-1
August 2013
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
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #: ____
☐ Dual Completion Permit #: ____
☐ SWD Permit #: ____
☐ ENHR Permit #: ____
☐ GSW Permit #: ____

01/04/2016	01/05/2016	01/05/2016
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-121-31204-00-00
Spot Description: ____
NW SE SW SW Sec. 16 Twp. 18 S. R. 24 ☑ East ☐ West
492 Feet from ☐ North / ☑ South Line of Section
4408 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: ____ *(e.g. xx.xxxxx)* , Long: ____ *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Miami
Lease Name: Holtz Well #: AI-4
Field Name: ____
Producing Formation: Squirrel
Elevation: Ground: 926 Kelly Bushing: 926
Total Vertical Depth: 580 Plug Back Total Depth: 533
Amount of Surface Pipe Set and Cemented at: 23 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: ____ Feet
If Alternate II completion, cement circulated from: 559
feet depth to: 0 w/ 68 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 20 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

☐ **Confidentiality Requested**
Date: ____
☐ **Confidential Release Date:** ____
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 03/21/2016

[redacted] 1298464

Operator Name: Altavista Energy, Inc. Lease Name: Holtz Well #: AI-4

Sec. 16 Twp. 18 S. R. 24 ☑ East ☐ West County: Miami

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☑ Yes ☐ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Gamma Ray/Neutron/CCL

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Squirrel	476	+450

CASING RECORD ☑ New ☐ 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	17	23	Portland	3	NA
Production	5.625	2.875	7	559	50/50 Poz	68	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	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☑ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☑ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
3	476-488 - 37 Perfs - 2" DML RTG		

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Altavista Energy, Inc.
Well Name	Holtz AI-4
Doc ID	1298464

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9.875	7	17	23	Portland	3	NA
Production	5.625	2.875	7	559	50/50 Poz	68	See Ticket

Miami County, KS
Well: Holtz AI-4
Lease Owner: AltaVista

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

Commenced Spudding:
1/4/2016

WELL LOG

Thickness of Strata	Formation	Total Depth
0-5	Soil-Clay	5
8	Lime	13
14	Shale	27
22	Lime	59
7	Shale	66
21	Lime	87
4	Shale	91
2	Lime	93
4	Shale	97
6	Lime	103
24	Shale	127
8	Sand	135
31	Sandy Shale	166
100	Shale	266
7	Sand	273
41	Shale	314
4	Lime	318
11	Shale	329
2	Lime	331
8	Shale	339
6	Lime	345
16	Shale	361
3	Lime	364
12	Shale	376
25	Lime	401
7	Shale	408
3	Lime	411
61	Shale	472
3	Sandy Shale	475
1	Sand	476
15	Core	491
29	Sandy Shale	520
60	Shale	580-TD

Miami County, KS
Well: Holtz AI-4
Lease Owner: AltaVista

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

Commenced Spudding:
1/4/2016

Core		
		476
12	Sand	488
3	Sandy Shale	491

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D^2x.14xh

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 - RPMxd over SPMxR

d - SPMxRxD over RPM

SPM - RPMXD over RxD

R - RPMXD over SPMxD

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. AI-4

Farm Holtz

KS (State) Miami (County)

16 (Section) 18 (Township) 24 (Range)

For Altavista Energy (Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Holtz Farm: Miami County

KS State; Well No. AI-4

Elevation 926

Commenced Spuding 1-4 20 16

Finished Drilling 1-5 20 16

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name Lance Town

Tool Dresser's Name

Contractor's Name TOS

16 (Section) .18 (Township) 24 (Range)

Distance from S line, 495 ft.

Distance from E line, 4415 ft.

3 sacks

1 core

1 hr Dozer time

5 7/8 borehole

2 7/8 casing

9 hrs

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
7 7/8" Set	23	6¼" Pulled	
~~4" Set~~		~~4" Pulled~~	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
533.	25	Baffle			
558.	95	Float		7/8	
				2 1/8	
580	TD				

Thickness of Strata	Formation	Total Depth	Remarks
0-5	soil-clay	5	
8	Lime	13	
14	Shale	27	
32	Lime	59	
7	Shale	66	
21	Lime	87	
4	Shale	91	
2	Lime	93	
4	Shale	97	
6	Lime	103	Hertha
24	Shale	127	
8	Sand	135	slight show
31	Sandy shale	166	
100	Shale	266	
7	Sand	273	no O.I
41	Shale	314	
4	Lime	318	
11	Shale	329	
2	Lime	331	
8	Shale	339	
6	Lime	345	
16	Shale	361	
3	Lime	364	
12	Shale	376	
25	Lime	401	
7	Shale	408	
3	Lime	411	

411

Thickness of Strata	Formation	Total Depth	Remarks
61	shale	472	
3	sandy shale	475	
1	sand	476	broken oil
15	core	491	page 6
29	sandy shale	520	
60	shale	580	TD

Thickness of Strata	Formation	Total Depth	Remarks
	core		
		476	
12	sand	488	broken- mostly solid -good sho
3	sandy shale	491	no oil

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.Box884
Chanute,KS 66720
620/431-9210,1-800/467-8676
Fax 620/431-0012

Invoice

Invoice# 806798

Invoice Date: 01/07/16

Terms: Net 30

Page 1

ALTAVISTA ENERGY INC

4595 K-33 HWY, PO BOX 128
WELLSVILLE KS 66092
USA

7858834057

holtz # ai-4

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	46.000	810.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	46.000	115.83
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	46.000	356.40
WE0853	80 BBL Vacuum Truck (Cement Services)	1.500	100.0000	46.000	81.00
CC5840	Poz-Blend I A (50:50)	68.000	13.5000	46.000	495.72
CC5965	Bentonite	214.000	0.3000	46.000	34.67
CC5326	Sodium Chloride, Salt	132.000	0.7500	46.000	53.46
CC6077	Kolseal	340.000	0.5000	46.000	91.80
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30
CC6128	Mud Flush - C	0.500	50.0000	46.000	13.50

Subtotal	3,845.70
Discounted Amount	1,769.02
SubTotal After Discount	2,076.68

Amount Due 3,951.40 If paid after 02/06/16

Tax:	57.07
Total:	2,133.75

CONSOLIDATED
Oil Well Services, LLC

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

Invoice #806798 (5102 / 5040)

TICKET NUMBER 49957
LOCATION Ottawa KS
FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-5-16	3244	Holtz # A I-4	SW 16	16	24	MI

CUSTOMER: Altavista Energy
MAILING ADDRESS: P.O. Box 128
CITY: Wellsville | STATE: KS | ZIP CODE: 66092

TRUCK #	DRIVER	TRUCK #	DRIVER
712	Fre Mad		
495	Har Bec		
675	Kei Dot		
510	Ala Mad		

JOB TYPE Longstring | HOLE SIZE 5 7/8 | HOLE DEPTH 580 | CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 561 | DRILL PIPE Baffle in | TUBING @ 533 | OTHER
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING
DISPLACEMENT 3.1 Bbl | DISPLACEMENT PSI | MIX PSI | RATE 4 BPM

REMARKS: Hold Safety mtg. Establish pump rate. Pump 1/2 Gal Mud Flush C & Circulate to condition hole. Mix & Pump 100# Gel Flush. Mix & pump 68 sks Poz Blend I A Cement 2% Gel 5% Salt 5# Kol Seal/sk. Cement to surface. Flush pump & lines Clean. Displace 2 1/2" Rubber plug to casing Baffle. Pressure to 800# PSI.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1500.00	
CE0002	30 mi	MILEAGE	495	214.50	
CE0711	Minimum	Ton Miles Delivery	510	660.00	
WE0853	1 hr	80 BBL Vac Truck	675	150.00	
		Sub Total		2524.50	
		less 46%		-1161.27	1363.23
1438 CC5640	68#	Poz Blend I A Cement		918.00	
CC 5965	214#	Bentonite Gel		64.20	
CC 5326	132#	Salt		99.00	
CC 6077	340#	Kol Seal		170.00	
CP 8176	1	2 1/2" Rubber Plug		45.00	
CC 6128	1/2 Gal	Mud Flush C		25.00	
		Sub Total		1321.20	
		less 46%		-607.75	713.45
			6%	SALES TAX	57.09
				ESTIMATED TOTAL	2133.77 (3951.40)

Ravin 3737

AUTHORIZTION 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.