Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
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
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

11/29/2017	11/30/2017	11/30/2017
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-121-31421-00-00
Spot Description:
NE - NW - NW - NW Sec. 21 Twp. 18 S. R. 24 ☑ East ☐ West
5110 Feet from ☐ North / ☑ South Line of Section
4815 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: WINDLER Well #: A-45
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 926 Kelly Bushing: 929
Total Vertical Depth: 560 Plug Back Total Depth: 508
Amount of Surface Pipe Set and Cemented at: 20 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 540
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: 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
☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ **I** ☑ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 03/27/2018

Page Two

Operator Name: Altavista Energy, Inc. Lease Name: WINDLER Well #: A-45

Sec. 21 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

Geologist Report / Mud Logs ☐ Yes ☑ No

List All E. Logs Run:

Gamma Ray/Neutron/CCL

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

Name	Top	Datum
Squirrel	480	+446

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	20	Portland	3	NA
Production	5.625	2.875	6.5	540	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	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☑ Yes ☐ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☑ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection: 12/14/2017

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	4				

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)*

PRODUCTION INTERVAL:

Top	Bottom
480	490

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
3	480	490			2" DML RTG

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Altavista Energy, Inc.
Well Name	WINDLER A-45
Doc ID	1402915

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	20	Portland	3	NA
Production	5.625	2.875	6.5	540	50/50 Poz	68	See Ticket

Miami County, KS
Well:Windler A-45
Lease Owner:AltaVista

Town Oilfield Service, Inc.
(913) 294-2125

Commenced Spudding:
11/29/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-6	Soil-Clay	6
7	Lime	13
14	Shale	27
32	Lime	59
7	Shale	66
20	Lime	86
4	Shale	90
2	Lime	92
5	Shale	97
6	Lime	103
19	Shale	122
13	Sand	135
21	Sandy Shale	156
105	Shale	261
13	Limey Sand	274
38	Shale	312
6	Lime	318
8	Shale	326
5	Lime	331
8	Shale	339
10	Lime	349
13	Shale	362
4	Lime	366
13	Shale	379
26	Lime	405
69	Shale	474
4	Sandy Shale	478
1	Sand	479
18	Core	497
37	Shale	534
1	Lime	535
25	Shale	560-TD

Core		
		479
11	Sand	490
7	Sandy Shale	497

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. A-45

Farm Windler

KS (State) Miami (County)

21 (Section) 18 (Township) 24 (Range)

For Alhavista Energy inc (Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Winller Farm: Miami County

KS State; Well No. A-45

Elevation 926

Commenced Spuding 11-29 20 17

Finished Drilling 11-30 20 17

Driller's Name Wesley Dollard

Driller's Name Ryan Wood

Driller's Name

Tool Dresser's Name

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

21 18 24

(Section) (Township) (Range)

Distance from S line, 5110 ft.

Distance from E line, 4515 ft.

3 sacks 2 7/8 casing

9 hrs

1 core

5 5/8 borehole

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
7 ~~6¾~~" Set	20	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
476.	65	Seat nipple			
506.	45	Bailer			
540.	15	Float		2 7/8	
560	TD				

A-45

Winller

Thickness of Strata	Formation	Total Depth	Remarks
0-6	soil - clay	6	
7	Lime	13	
14	Shale	27	
32	Lime	59	
7	Shale	66	
20	Lime	86	
4	Shale	90	
2	Lime	92	
5	Shale	97	
6	Lime	103	Hertha
19	Shale	122	
13	Sand	135	broken - good oil Show
21	sandy shale	156	
105	Shale	261	
13	limey sand	274	no oil
38	Shale	312	
6	Lime	318	
8	Shale	326	
5	Lime	331	
8	Shale	339	
10	Lime	349	
13	Shale	362	
4	Lime	366	
13	Shale	379	
26	Lime	405	
69	Shale	474	
4	Sandy Shale	478	

A-45
Windler

Thickness of Strata	Formation	Total Depth	Remarks
		475	
1	Sand	479	solid - good saturation
18	Core	497	
37	Shale	534	
1	Lime	535	
25	Shale	560	TD
	Core		
		479	
11	Sand	490	solid - good saturation
7	Sandy Shale	497	

QES PRESSURE PUMPING LLC

REMIT TO

QES Pressure Pumping 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# 811892

Invoice Date: 11/30/17 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC

PO BOX 128
WELLSVILLE KS 66092
USA

7858834057

WINDLER #A-45

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	50.000	750.00
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	7.1500	50.000	107.25
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	50.000	330.00
WE0853	80 BBL Vacuum Truck (Cement Services)	2.000	100.0000	50.000	100.00
CC5840	Poz-Blend I A (50:50)	68.000	13.5000	50.000	459.00
CC5965	Bentonite	214.000	0.3000	50.000	32.10
CC5326	Sodium Chloride, Salt	143.000	1.0000	50.000	71.50
CC6077	Kolseal	340.000	0.5000	50.000	85.00
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	50.000	22.50

Subtotal	3,914.70
Discounted Amount	1,957.35
SubTotal After Discount	1,957.35

Amount Due 4,021.92 If paid after 12/30/17

Tax:	53.61
Total:	2,010.96

QES
PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

9608 / 9500

TICKET NUMBER 53921
LOCATION Ottawa KS
FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #811892

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-29-17	3244	Windler # A-45	NW 21	18	24	MI

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

TRUCK #	DRIVER	TRUCK #	DRIVER
712	Fre Mad		
495	Cas Ken		
369	Mik Han		
558	Arl McD		

JOB TYPE Longstring | HOLE SIZE 5 7/8 | HOLE DEPTH 560 | CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 540' | DRILL PIPE Baffle | TUBING 509 | OTHER
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING 31' + Plug
DISPLACEMENT 2.95 BBL | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Held Safety meeting. Establish circulation. Mix & Pump 100# Gel Flush. Mix & Pump 68 sks Pox Blend IA 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.

TOS Drilling

Fred Mader

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	2.145.50	
CE0711	Minimum	Ton Miles Delivery	558	660.00	
WE0853	2 hrs	80 BBL Vac Truck	369	200.00	
		Sub Total		2574.50	
		Less 50%			1287.25
CC5840	68 sks	Pox Blend I A Cement		918.00	
CC5965	214#	Bentonite Gel.		64.20	
CC5326	143#	Salt		143.00	
CC6077	340#	Kol Seal		170.00	
CP8176	1	2 1/2" Rubber plug		45.00	
		Sub Total		1340.20	
		Less 50%			670.10
			8%	SALES TAX	53.61
				ESTIMATED TOTAL	2020.96

1492

Ravin 3737

AUTHORIZTION | TITLE | DATE (402192)

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.