

Form	ACO1 - Well Completion
Operator	Altavista Energy, Inc.
Well Name	WINDLER AI-41
Doc ID	1403694

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	571	50/50 Poz	75	See Ticket

Miami County, KS
 Well: Windler AI-41
 Lease Owner: AltaVista

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

Commenced Spudding:
 11/9/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-17	Soil-Clay	17
10	Lime	27
11	Shale	38
33	Lime	71
6	Shale	77
21	Lime	98
4	Shale	102
2	Lime	104
4	Shale	108
7	Lime	115
21	Shale	136
9	Sand	145
12	Sandy Shale	157
119	Shale	276
12	Limey Sand	288
38	Shale	326
6	Lime	332
5	Shale	337
6	Lime	343
8	Shale	351
12	Lime	363
12	Shale	375
3	Lime	378
16	Shale	394
24	Lime	418
6	Shale	424
2	Lime	426
14	Shale	440
3	Lime	443
47	Shale	490
5	Sandy Shale	495
8	Sand	503
12	Sandy Shale	515
34	Shale	549
1	Lime	550
30	Shale	580-TD

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 $SPM \times d$

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-41

Farm Windler

KS Miami
(State) (County)

21 K8 24
(Section) (Township) (Range)

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Farm: William County

State: Well No.

935

11-9

11-20

Wesley Dollar

Ryan Warr

name _____

ame _____

Name _____

no TOS

186

(Township)

5

F

11

4

RECORD

10" Pulled

8'' Pulled

20

6 1/4" Puled

4' Pulled

2" Pulled

CASING AND TUBING MEASUREMENTS

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

3-2210

Flint

580 TV

Thickness of Strata	Formation	Total Depth	Remarks
0-17	soil-clay	17	
10	Lime	27	
11	Shale	38	
33	Lime	71	
6	Shale	77	
21	Lime	98	
4	Shale	102	
2	Lime	104	
4	Shale	108	
7	Lime	115	Hertha
21	Shale	136	
9	sand	145	broken - good oil show
12	sandy shale	157	
119	shale	276	
12	limy sand	288	no oil
38	shale	326	
6	Lime	332	
5	Shale	337	
6	Lime	343	
8	Shale	351	
12	Lime	363	
12	Shale	375	
3	Lime	378	
16	Shale	394	
24	Lime	418	
6	Shale	424	
2	Lime	426	

[illegible]

Miami County, KS
Well:Windler A-42
Lease Owner:AltaVista

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

Commenced Spudding:
11/21/17

WELL LOG

[illegible]

[illegible]

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 - $\text{RPM} \times d$ over $\text{SPM} \times R$

d - $\text{SPM} \times R \times D$ over RPM

SPM - $\text{RPM} \times D$ over $R \times d$

R - $\text{RPM} \times D$ over $\text{SPM} \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. A-42

Farm Wineller

KS
(State)

Miami
(County)

21
(Section)

18
(Township)

24
(Range)

For Altavista Energy Inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
0-12	soil-clay	12	
8	Lime	20	
13	Shale	33	
33	Lime	66	
7	Shale	73	
19	Lime	92	
4	Shale	96	
2	Lime	98	
6	Shale	104	
5	Lime	109	Hertha
20	Shale	129	
13	sand	142	broken - good oil show
13	Sandy Shale	155	
114	Shale	269	
10	limey sand	279	no oil
6	sandy shale	285	
34	Shale	319	
7	Lime	326	
18	Shale	344	
11	Lime	355	
11	Shale	366	
4	Lime	370	
14	Shale	384	
24	Lime	408	
6	Shale	414	
5	Lime	419	
65	Shale	484	

484

[illegible]



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# 811788

Invoice Date: 11/27/17 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC

PO BOX 128
WELLSVILLE KS 66092
USA
7858834057

WINDLER #AI-41

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)	2.500	100.0000	50.000	125.00
CC5840	Poz-Blend I A (50:50)	75.000	13.5000	50.000	506.25
CC5965	Bentonite	226.000	0.3000	50.000	33.90
CC5326	Sodium Chloride, Salt	158.000	1.0000	50.000	79.00
CC6128	Mud Flush - C	0.500	50.0000	50.000	12.50
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	50.000	22.50
CC6077	Kolseal	375.000	0.5000	50.000	93.75

Subtotal 4,120.30

Discounted Amount 2,060.15

SubTotal After Discount 2,060.15

Amount Due 4,239.96 If paid after 12/27/17

Tax: 59.83

Total: 2,119.98



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

FIELD TICKET & TREATMENT REPORT CEMENT

TICKET NUMBER 53917
LOCATION Ottawa KS
FOREMAN Fred Maden

Invoice # 811788

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-20-17	3244	Windsor # A1-41	NW 21	18	24	M1
CUSTOMER A Havista Energy Inc						
MAILING ADDRESS P.O. Box 128						
CITY Wellsville	STATE KS	ZIP CODE 66092				
			TRUCK #	DRIVER	TRUCK #	DRIVER
			712	Fred Maden		
			495	Harold		
			675	Kiddy		
			558	Mickhae		

JOB TYPE Workover HOLE SIZE 5 1/2" HOLE DEPTH 580' CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 571' DRILL PIPE Baffle in TUBING @ 5 1/2" OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING 31' + Plug
DISPLACEMENT 3.1488 DISPLACEMENT PSI MIX PSI RATE 4 BPM

REMARKS: Hold safety meeting. Establish pump rate. Pump 1/2 Gal Mud Flush "C". Circulate well to condition hole. Mix & Pump 100% Gel Flush. Mix & Pump 72 SKS Por Blend IA Cement 2% Gel 5% Salt 5% Kol Seal 1SK. Cement to Surface. Flush pump & lines clean. Displace 2 1/2" Rubber plug to Baffle in casing. Pressure to 500* PSI. Release pressure to set float valve. Shut in casing.

TOS Drilling

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1500.00
CE0002	30 mi	MILEAGE	495	21450.00
CE0711	Minimum	Ten Miles Delivery	558	6600.00
WE0853	2 1/2 hrs	60 BBL Vac Truck	675	2500.00
		Sub Total		262450.00
		less 50%		131225.00
CC5846	75 SKS	Por Blend IA Cement	1012.50	
CC5965	226#	Bentonite Gel	67.50	
CC5326	155#	Salt	158.00	
CC6077	375#	Kol Seal	187.50	
CC6128	1/2 Gal	Mud Flush "C"	25.00	
CP8176	1	2 1/2" Rubber Plug	45.00	
		Sub Total		1495.50
		less 50%		747.75
		8%		
		SALES TAX		59.83
		ESTIMATED TOTAL		211998.78

Ravin 3737

AUTHORIZATION _____ TITLE _____ DATE (423926)

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.