

Miami County, KS
 Well:Ed Flake # 8
 Lease Owner:AltaVista

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

Commenced Spudding:
 2/27/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-20	Soil-Clay	20
29	Shale	49
8	Lime	57
12	Shale	69
33	Lime	102
6	Shale	108
20	Lime	128
4	Shale	132
2	Lime	134
3	Shale	137
7	Lime	144
22	Shale	166
34	Sand	200
103	Shale	303
10	Sandy Lime	313
41	Shale	354
6	Lime	360
5	Shale	365
3	Lime	368
3	Shale	371
2	Lime	373
9	Shale	382
7	Lime	389
17	Shale	406
4	Lime	410
8	Shale	418
23	Lime	441
22	Shale	463
2	Lime	465
24	Shale	489
6	Sandy Shale	495
19	Shale	514
4	Sandy Shale	518
19	Core	537
63	Shale	600-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. 8

Farm Ed Flake

KS Miami
(State) (County)

9 18 24
(Section) (Township) (Range)

For Altavista Energy Inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Ed Flake Farm: Miami County
 KS State: Well No. 8

Elevation 982
 Commenced Spuding 2-27 20 17
 Finished Drilling 2-28 20 17
 Driller's Name Wesley Dollard
 Driller's Name _____
 Driller's Name _____
 Tool Dresser's Name Ryan Ward
 Tool Dresser's Name _____
 Tool Dresser's Name _____
 Contractor's Name TOS
 9 18 24

(Section) (Township) (Range)
 Distance from S line ~~24118~~ 825 ft.
 Distance from E line ~~4125~~ ft.
 3 sacks
 1 core 2 7/8 casing
 9 hrs
 5 5/8 borehole

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
 8" Set _____ 8" Pulled _____
 7 1/2" Set 21 _____ 6 1/2" Pulled _____
 4" Set _____ 4" Pulled _____
 2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
514-		seat nipple			
545.75		Baffle			
576.30		Floater			
600 TD		2	7/8		

Thickness of Strata	Formation	Total Depth	Remarks
0-20	soil-clay	20	
29	Shale	49	
8	Lime	57	
12	shale	69	
33	Lime	102	
6	Shale	108	
20	Lime	128	
4	Shale	132	
2	Lime	134	
3	Shale	137	
7	Lime	144	Hertha
22	Shale	166	
34	sand	200	gas odor - 166-176 oil show
103	shale	303	
10	sandy Lime	313	white
41	Shale	354	340-red bed
6	Lime	360	
5	Shale	365	
3	Lime	368	
3	Shale	371	
2	Lime	373	
9	Shale	382	
7	Lime	389	
17	Shale	406	
4	Lime	410	
8	Shale	418	
23	Lime	441	

441

Thickness of Strata	Formation	Total Depth	Remarks
22	Shale	463	
2	Lime	465	
24	Shale	489	
6	sandy shale	495	
19	Shale	514	
4	sandy shale	518	517-518 odor
19	core	537	
63	Shale	600	TD
	core		
		518	
2	sandy	520	broken - good oil
3	sand	523	mostly solid - good oil
14	shale	537	



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#

809722

Invoice Date: 02/28/17

Terms: Net 30

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ALTAVISTA ENERGY INC

PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

ED FLAKE #8

Tax: 50.70

Total: 1,842.97



7655/7553

TICKET NUMBER 50419
 LOCATION Ottawa KS
 FOREMAN Fred Maden

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

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice #809722

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-28-17	3244	Ed Flake # 6	SW 9	18	24	Mi
CUSTOMER			TRUCK #			
Altavista Energy Inc			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 125			DRIVER			
CITY		STATE	ZIP CODE			
Wellsville		KS	66092			

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 600' CASING SIZE & WEIGHT 2 1/2 EUE
 CASING DEPTH 576' DRILL PIPE Baffle in TUBING @ 546' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 30' x Plug
 DISPLACEMENT 3.17 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 48 P/M

REMARKS: Hold safely waiting Establish pump rate & circulation.
 Mix & Pump 106# Gel Flush. Mix & Pump 22 sacks Per 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
 Baffle in casing. Pressure to 800# 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
CE 0450	1	PUMP CHARGE	495	1500.00
CE 0002	30 mi	MILEAGE	495	214.50
CE 0711	Minimum	Ton Miles Delivery	558	660.00
WE 0853	2 hrs	80 BBL Vac Truck	675	200.00
		Sub Total		2574.50
		Less 55%		1158.53
CC 5840	72 sacks	Per Blend I A Cement	272.00	19584.00
CC 5965	221#	Bentonite Gel	66.50	14785.50
CC 5326	145#	Salt	145.00	20925.00
CC 6077	360#	Kol Seal	180.00	21105.00
CP 8176	1	2 1/2" Rubber Plug	45.00	21150.00
		Sub Total		14092.00
		Less 55%		6332.40
		8%	SALES TAX	502.00
			ESTIMATED TOTAL	18429.70

Ravin 3737

AUTHORIZATION Bryan Miller TITLE _____ DATE (409546)

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.