Miami County, KS
Well: Windler-Stephens AI-2
Lease Owner: AltaVista

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

Commenced Spudding:
12/11/2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0-17	Soil-Clay	17
9	Lime	26
12	Shale	37
34	Lime	72
6	Shale	78
22	Lime	100
3	Shale	103
3	Lime	106
4	Shale	110
6	Lime	116
21	Shale	137
15	Sand	152
20	Sandy Shale	172
104	Shale	276
17	Sand	293
32	Shale	325
6	Lime	331
18	Shale	349
7	Lime	356
16	Shale	372
3	Lime	375
14	Shale	389
26	Lime	415
69	Shale	484
4	Sandy Shale	488
1	Sand	489
17	Core	506
74	Shale	580-TD

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12/11/2015

Core		
		489
4.5	Sand	493.5
4.5	Sand	498
8	Sandy Shale	506

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-2

Farm Windler-Stephens

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

Windler
Stephens Farm: Miami County
KS State; Well No. AI-2
Elevation 952
Commenced Spuding 12-11 20 15
Finished Drilling 12-18 20 15
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
21 18 24
(Section) (Township) (Range)
Distance from S line, 3405 ft.
Distance from E line, 4515 ft.
3 sacks 2 7/8 casing
1 core
9 hrs
5 5/8 borehole

CASING AND TUBING RECORD

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

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
539.	85	Baffle			
571.	60	Float			
580	TD	2 7/8			

Thickness of Strata	Formation	Total Depth	Remarks
0-17	soil - clay	17	
9	Lime	26	
12	Shale	38	
34	Lime	72	
6	Shale	78	
22	Lime	100	
3	Shale	103	
3	Lime	106	
4	Shale	110	
6	Lime	116	Hertha
21	Shale	137	
15	Sand	152	broken - good Oil Show
20	sandy shale	172	
104	Shale	276	
17	Sand	293	water
32	Shale	325	
6	Lime	331	
18	Shale	349	
7	Lime	356	
16	Shale	372	
3	Lime	375	
14	Shale	389	
26	Lime	415	
69	Shale	484	
4	sandy shale	488	
1	Sand	489	Solid - good Oil Show
17	Core	506	Page 6

506

Thickness of Strata	Formation	Total Depth	Remarks
74	Shale	580	TD

Thickness of Strata	Formation	Total Depth	Remarks
	core		
		489	
4.5	sand	493.5	solid - good saturation
4.5	sand	498	broken - mostly solid - good saturation
8	sandy shale	506	

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# 806688

Invoice Date: 12/22/15 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC

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

7858834057

windler stephens #a-i-2

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
CC6128	Mud Flush - C	0.500	50.0000	46.000	13.50
CC5840	Poz-Blend I A (50:50)	75.000	13.5000	46.000	546.75
CC5965	Bentonite	226.000	0.3000	46.000	36.61
CC5326	Sodium Chloride, Salt	145.000	0.7500	46.000	58.73
CC6077	Kolseal	375.000	0.5000	46.000	101.25
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	46.000	24.30

Subtotal	3,971.05
Discounted Amount	1,826.68
SubTotal After Discount	2,144.37

Amount Due 4,086.77 If paid after 01/21/16

Tax:	62.49
Total:	2,206.86

CONSOLIDATED
Oil Well Services, LLC

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

Invoice #806688 5042 4950

TICKET NUMBER 49932
LOCATION Ottawa KS
FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-18-15	3244	Windler-Stephens #A-I-2	NE 28	18	24	MI

CUSTOMER: Altavista Energy
MAILING ADDRESS: P.O. Box 120
CITY: Wellsville | STATE: KS | ZIP CODE: 66092

TRUCK #	DRIVER	TRUCK #	DRIVER
712	FreMad		
495	HarBec		
675	KeiDex		
510	KeiCar		

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 580 CASING SIZE & WEIGHT 2 7/8 · EUE
CASING DEPTH 578 DRILL PIPE _____ TUBING 541 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 28' + Plug
DISPLACEMENT 3.14 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Held Safety meeting. Establish pump rate. Pump 1/2 Gal NE 100 polymer flush. Mix & Pump 100# Gel Flush. Mix & Pump 75 sks Poz Blend I A Cement 2% Gel 5% Salt 5# Kol Seal /sk. Cement to surface. Flush pump & lines clean. Displace 2 3/4" Rubber plug to baffle in casing. Pressure to 800# PSI. Casing held pressure. Release pressure to set float valve. Shut in Casing.

TOS Drilling - (wee) Fred Mader

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1500.00	
CE0002	30mi	MILEAGE	495	214.50	
CE0211	Minimum	Ton Miles Delivery	510	660.00	
WE0853	1 1/2 hr	80 BBL Vac Truck	675	150.00	
		Sub Total		2524.50	
		Less 46%		-1161.27	1363.23
CC6128	1/2 gal	Mud Flush		25.00	
CC5840	75 sks	Poz Blend I-A Cement		1012.50	
CC5965	226#	Bentonite Gel		67.80	
CC5326	145#	Salt		108.75	
CC6077	375#	Kol Seal		187.50	
CP8176	1	2 3/4" Rubber Plug		45.00	
		Sub Total		1446.55	
		Less 46%		-665.41	781.14
			8%	SALES TAX	62.49
				ESTIMATED TOTAL	2206.86 (1086.77)

Revin 3737

AUTHORIZTION No Co Rep on site 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