Miami County, KS
Well: Nevius AI-10
Lease Owner: Altavista Energy

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

Commenced Spudding:
5-5-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 5	Soil - Clay	5
6	Shale	11
64	Lime	75
44	Lime	119
20	Shale	139
11	Lime	150
27	Shale	177
5	Lime	182
37	Shale	219
12	Lime	231
14	Shale	245
25	Lime	270
7	Shale	277
21	Lime	298
4	Shale	302
2	Lime	304
5	Shale	309
8	Lime	317
12	Shale	329
5	Sand	334
16	Shale	350
10	Sand	360
10	Sand	370
10	Sandy Shale	380
131	Shale	511
5	Lime	516
2	Shale	518
5	Lime	523
6	Shale	529
10	Lime	539
18	Shale	557
4	Lime	561
8	Shale	569
8	Lime	577
3	Shale	580
9	Lime	589
19	Shale	608
4	Lime	612
45	Sand	657
1	Sand & Sandy Shale	658

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5-5-2015

20	Core	678
62	Shale	740 TD

Core

		658
1	Sand & Sandy Shale	659
1	Sand & Sandy Shale	660
12	Sand	672
6	Shale	678

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-10

Farm Nevius

KS (State) Miami (County)

17 (Section) 16 (Township) 24 (Range)

For Alfaviste Energy (Well Owner)

Town Oilfield Services, Inc.
1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Nevius Farm: Miami County

KS State; Well No. AI-10

Elevation 1053

Commenced Spuding 5-5 20 15

Finished Drilling 5-6 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

17 16 24

(Section) (Township) (Range)

Distance from S line, 3135 ft.

Distance from E line, 2475 ft.

4 sacks 5 5/8 borehole

1 core 2 7/8 casing

9 hrs

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
7 0/4" Set	23	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
658.05		Seat nipple			
689.85		Ball		2 7/8	
721.60		Float			
740	TD				

Thickness of Strata	Formation	Total Depth	Remarks
0-5	Soil-clay	5	
6	Lime	11	
64	Shale	75	
44	Lime	119	
20	Shale	139	
11	Lime	150	
27	Shale	177	
5	Lime	182	
37	Shale	219	
12	Lime	231	
14	Shale	245	
25	Lime	270	
7	Shale	277	
21	Lime	298	
4	Shale	302	
2	Lime	304	
5	Shale	309	
8	Lime	317	Hertha
12	Shale	329	
5	Sand	334	odor
16	Shale	350	
10	Sand	360	Solid - good show
10	Sand	370	no Oil
10	sandy shale	380	
131	Shale	511	
5	Lime	516	
2	Shale	518	

518

Thickness of Strata	Formation	Total Depth	Remarks
5	Lime	523	
6	Shale	529	
10	Lime	539	
18	Shale	557	
4	Lime	561	
8	Shale	569	
8	Lime	577	
3	Shale	580	
9	Lime	589	
19	Shale	608	
4	Lime	612	
45	Shale	657	
1	Sand & sandy shale	658	odor - no show
20	Core	678	
62	Shale	740	TD

Thickness of Strata	Formation	Total Depth	Remarks
	Core		
		658	
1	Sand & sandy shale	659	no show
1	Sand & sandy shale	660	laminated oil } perf
12	Sand	672	solid - poor saturation } perf
6	Shale	678	

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# 804217

Invoice Date: 05/19/15 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC

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

7858834057

NEVIS # AI-10

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,085.0000	30.000	759.50
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	4.2000	30.000	88.20
CE0461	Cement Pump Charge Below 12000'	720.000	0.0000	0.000	0.00
CE0711	Minimum Cement Delivery Charge	1.000	368.0000	30.000	257.60
WE0853	80 BBL Vacuum Truck (Cement Services)	2.000	100.0000	30.000	140.00
CC5840	Poz-Blend I A (50:50)	98.000	11.5000	30.000	788.90
CC5965	Bentonite	365.000	0.2200	30.000	56.21
CC5326	Sodium Chloride, Salt	206.000	0.3900	30.000	56.24
CC6077	Kolseal	490.000	0.4600	30.000	157.78
CP8176	2 7/8" Top Rubber Plug	1.000	29.5000	30.000	20.65

Subtotal	3,321.54
Discounted Amount	996.46
SubTotal After Discount	2,325.08

Amount Due 3,439.54 If paid after 06/18/15

Tax:	82.61
Total:	2,407.69

CONSOLIDATED
Oil Well Services, LLC

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

Invoice #804217 2850 7710

TICKET NUMBER 50958
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5/6/15	3244	Nevius #AT-10	NE 17	16	24	MI

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

TRUCK #	DRIVER	TRUCK #	DRIVER
729	CasKen	Safety Meeting	
407	KeiCar	✓	
558	GarMcc	✓	
369	MikHac	✓	

JOB TYPE longstring HOLE SIZE 5 5/8" HOLE DEPTH 740' CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 720' DRILL PIPE ~~TUBING~~ baffle - 690' OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT In CASING 30'
DISPLACEMENT 3.99 bbls DISPLACEMENT PSI MIX PSI RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200# Gel followed by 10 bbls fresh water, mixed & pumped 98 sks 50/50 Pozmix cement w/ 2% gel, 5% salt, & 5# Kolseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 3.99 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	CE04501	PUMP CHARGE	1085.00	
5406	CE000030 mi	MILEAGE	126.00	
5402	CE04611 720'	casing footage	—	
5407	CE07411 minimum	ton mileage	368.00	
5502C	CE08532 hrs	80 Vac	200.00	
		trucks	1779.00	
		-30%	533.70	
		subtotal		1245.30
1124	CC5846 98 sks	50/50 Pozmix cement	1127.00	
1118B	CC5465 365 #	Gel	80.30	
1111	CC5326 2010 #	Salt	80.34	
1110A	CC0077 490 #	Kolseal	225.40	
4402	CP8176 1	2 1/2" rubber plug	29.50	
		materials	1542.54	
		-30%	462.76	
		subtotal		1079.78
		7.65%	SALES TAX	82.60
			ESTIMATED TOTAL	2407.68

1126

completed

Ravin 3737

AUTHORIZTION Bryan Mills TITLE DATE (3439.54)

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.