

Miami County, KS
Well: Nevius AI-11
Lease Owner: Altavista Energy

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

Commenced Spudding:
4-29-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 10	Soil - Clay	10
1	Shale	11
3	Lime	14
55	Shale	69
8	Lime	77
5	Shale	82
32	Lime	114
18	Shale	132
11	Lime	143
27	Shale	170
4	Lime	174
40	Shale	214
10	Lime	224
16	Shale	240
25	Lime	265
6	Shale	271
21	Lime	292
3	Shale	295
3	Lime	298
5	Shale	303
9	Lime	312
30	Shale	342
12	Sand	354
26	Sandy Shale	380
128	Shale	508
4	Lime	512
3	Shale	515
6	Lime	521
5	Shale	526
10	Lime	536
18	Shale	554
4	Lime	558
11	Shale	569
4	Lime	573
8	Shale	581
6	Lime	587
20	Shale	607
2	Lime	609
47.5	Shale	656.5
0.5	Sand	657

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 $BPH \times PSI \times .0004$

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-11

Farm Navios

KS Miami
(State) (County)

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

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

News Farm: Miami County
KS State; Well No. AI-11
Elevation 1030
Commenced Spuding 4-29 .20 15
Finished Drilling 4-30 .20 15
Driller's Name Wesley Dollard
Driller's Name _____
Driller's Name _____
Tool Dresser's Name Ryan Ward
Tool Dresser's Name Cole Holcom
Tool Dresser's Name _____
Contractor's Name TOS
17 16 24

(Section) (Township) (Range)
Distance from S line, 3795 ft.
Distance from E line, 2475 ft.
4 sacks 2 7/8 casing
1 coil
9 hrs
5 5/8 borehole

**CASING AND TUBING
RECORD**

10" Set _____ 10" Pulled _____
8" Set _____ 8" Pulled _____
7 3/4" Set 23 6 1/4" Pulled _____
4" Set _____ 4" Pulled _____
2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
700.	20	Baffle			
730.65		PLow			2 7/8
740	TD				

Thickness of Strata	Formation	Total Depth	Remarks
0-10	soil-clay	10	
1	Shale	11	
3	Lime	14	
55	Shale	69	
8	Lime	77	
5	Shale	82	
32	Lime	114	
18	Shale	132	
11	Lime	143	
27	Shale	170	red bed
4	Lime	174	
40	Shale	214	
10	Lime	224	
16	Shale	240	
25	Lime	265	
6	Shale	271	
21	Lime	292	
3	Shale	295	
3	Lime	298	
5	Shale	303	
9	Lime	312	Hertha
30	Shale	342	
12	sand	354	broken - heavy oil - good show
26	sandy shale	380	
128	Shale	508	
4	Lime	512	
3	shale	515	

515

Thickness of Strata	Formation	Total Depth	Remarks
6	Lime	521	
5	Shale	526	
10	Lime	536	
18	Shale	554	
4	Lime	558	
11	Shale	569	
4	Lime	573	
8	shale	581	
6	Lime	587	
20	shale	607	
2	Lime	609	
47.5	shale	656.5	
.5	sand	657	oil-broken
20	core	677	page 6
17	sandy shale	694	
46	shale	740	TD



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# 804120

Invoice Date: 04/30/15 Terms: Net 30 Page 1

ALTAVISTA ENERGY INC
 4595 K-33 HWY, PO BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

NEVIUS @AI-11

Part No	Description	Quantity	Unit Price	Discount(%)	Total
5401	Cement Pumper	1.000	1,085.0000	30.000	759.50
5406	Mileage Charge	30.000	4.2000	30.000	88.20
5402	Casing Footage	731.000	0.0000	0.000	0.00
5407	Min. Bulk Delivery Charge	1.000	368.0000	30.000	257.60
5502C	80 Vacuum Truck Cement	1.500	100.0000	30.000	105.00
1124	Poz Cement Mix	93.000	11.5000	30.000	748.65
1118B	Premium Gel / Bentonite	256.000	0.2200	30.000	39.42
1111	Sodium Chloride (Granulated Salt)	188.000	0.3900	30.000	51.32
1110A	Kol Seal (50# BAG)	465.000	0.4600	30.000	149.73
4402	2 1/2 Rubber Plug	1.000	29.5000	30.000	20.65
1401	HE 100 Polymer	0.500	47.2500	30.000	16.54

Subtotal 3,195.17
 Discounted Amount 958.55
 SubTotal After Discount 2,236.62

Amount Due 3,307.33 If paid after 05/30/15

Tax: 78.51
 Total: 2,315.12



CONSOLIDATED
Oil Well Services, LLC

Invoice # 804120 ²¹⁹⁴ ²⁷²⁴

TICKET NUMBER 50968

LOCATION Ottawa KS

FOREMAN Fred Maden

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4.30.15	3244	Nevius # AT-11	NE 17	16	24	M1
CUSTOMER Altaivista Energy			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 128			712 / Fred Maden			
CITY STATE ZIP CODE Wellsville KS 66092			467 / Kei Lar			
			675 / Kei Det			
			558 / Arl Mcb			

JOB TYPE Logging HOLE SIZE 5 7/8 HOLE DEPTH 740. CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 7310 DRILL PIPE Baffle in tubing @ 700' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31' Plug
 DISPLACEMENT 4.02 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Hold Safety meeting. Establish pump rate. Mix 1/2 Gal HE-100
Polymer Flush. Circulate well to condition hole. Mix + Pump
100# Gal Flush. Mix + Pump 93 sks 50/50 Poz Mix Cement 2 7/8 Gal
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. Shot
in casing.

TOS Drilling, Wcs.

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 /	1	PUMP CHARGE	467	1085 ⁰⁰ /
5406 /	30 mi	MILEAGE	467	126 ⁰⁰ /
5402 /	731	Casing Footage	N/C	/
5407 /	Minimum	Ten Miles	558	368 ⁰⁰ /
5502C /	1 1/2 hr	80 BBL Vac Truck		150 ⁰⁰ /
		Sub Total		1729 ⁰⁰
		less 30%		-518 ⁷⁰ 1210 ³⁰
1124 /	93 sks	50/50 Poz Mix Cement		1069 ⁵⁰ /
1118B /	256 #	Premium Gel		56 ³² /
1111 /	188 #	Granulated Salt		73 ³² /
1110A /	465 #	Kol Seal		213 ⁹⁰ /
4402 /	1	2 1/2" Rubber Plug.		29 ⁵⁰ /
1401 /	1/2 Gal	HE 100 Polymer.		23 ⁶³ /
		Material		1466 ¹⁷
		Less 30%		-439 ⁸⁵ 1026 ³²
			7.65%	SALES TAX 78 ⁵¹ /
				ESTIMATED TOTAL 2315 ¹² /

Ravin 3737

AUTHORIZATION [Signature]

TITLE Supervisor

DATE (3307.33)

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.