

Miami County, KS
 Well: Nevius AI-12
 Lease Owner: Altavista Energy

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

Commenced Spudding:
 5-12-2015

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 16	Soil - Clay	16
47	Shale	63
7	Lime	70
4	Shale	74
32	Lime	106
20	Shale	126
11	Lime	137
4	Shale	141
5	Lime	146
18	Shale	164
4	Lime	168
38	Shale	206
10	Lime	216
16	Shale	232
24	Lime	256
8	Shale	264
20	Lime	284
4	Shale	288
2	Lime	290
5	Shale	295
9	Lime	304
11	Shale	315
5	Sand	320
17	Shale	337
16	Sand	353
14	Sandy Shale	367
129	Shale	496
6	Lime	502
2	Shale	504
3	Lime	507
7	Shale	514
12	Lime	526
18	Shale	544
4	Lime	548
9	Shale	557
2	Lime	559
11	Shale	570
5	Lime	575
67	Shale	642
1	Sand & Sandy Shale	643

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-12

Farm Nevius

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

Nevius Farm: Miami County

KS State; Well No. AI-12

Elevation 1045

Commenced Spuding 5-12 20 15

Finished Drilling 5-13 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, 3300 ft.

Distance from E line, 2310 ft.

4 sacks 2 7/8 casing

1 core

9 hrs

5 7/8 borehole

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

7 1/4" Set 23 6 1/4" Pulled _____

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
712	50	Ball	e		
744		Float			2 7/8
760	TD				

Thickness of Strata	Formation	Total Depth	Remarks
0-16	soil-clay	16	
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32	lime	106	
20	shale	126	
11	lime	137	
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18	shale	164	
4	lime	168	
38	shale	206	
10	lime	216	
16	shale	232	
24	lime	256	
8	shale	264	
20	lime	284	
4	shale	288	
2	lime	290	
5	shale	295	
9	lime	304	
11	shale	315	Hertha
5	sand	320	broken oil - good bleed
17	shale	337	
16	sand	353	broken oil - good bleed
14	sandy shale	367	
129	shale	496	

496

Thickness of Strata	Formation	Total Depth	Remarks
6	Lime	502	
2	Shale	504	
3	Lime	507	
7	Shale	514	
12	Lime	526	
18	Shale	544	
4	Lime	548	
9	Shale	557	
2	Lime	559	
11	Shale	570	
5	Lime	575	
67	Shale	642	
1	sand & sandy shale	643	odor
20	core	663	page 6
35	shale	698	
1	Lime	699	
12	Shale	711	
6	Sandy shale	717	
7	Shale	724	
6	redbed	730	
30	Shale	760	TD

Thickness of Strata	Formation	Total Depth	Remarks
	Core		
		643	
3	sand & sandy shale	646	laminated - gas
14	sand	660	 - 646 - 652 gas
3	shale	663	perf - 652 - 660 good saturation solid oi



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# 804288

Invoice Date: 05/26/15 Terms: Net 30 Page 1

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

NEVIUS #AI-12

Table with 6 columns: Part No, Description, Quantity, Unit Price, Discount(%), Total. Rows include items like Cement Pump Charge, Equipment Mileage Charge, etc.

Subtotal 3,209.80
Discounted Amount 962.94
SubTotal After Discount 2,246.86

Amount Due 3,323.08 If paid after 06/25/15

Tax: 79.30

Total: 2,326.16



CONSOLIDATED
Oil Well Services, LLC

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

2929
2855
Invoice # 804288

TICKET NUMBER 50994

LOCATION Ottawa, KS

FOREMAN Fred Maden

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-13-15	3244	Nevius # AI-12	NE 17	14	22	MI
CUSTOMER <u>Alta Vista Energy</u>			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS <u>P.O. Box 128</u>			712 / <u>Fred Maden</u>			
CITY <u>Wellsville</u>			467 / <u>Ki Car</u>			
STATE <u>KS</u>			675 / <u>Ki Car</u>			
ZIP CODE <u>66092</u>			558 / <u>Art Mad</u>			

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 760' CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 744' DRILL PIPE Baffle in tubing @ 712 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32' + Plug
 DISPLACEMENT 4.1438 DISPLACEMENT PSI _____ MIX PSI _____ RATE 53PM

REMARKS: Hold safely making. Establish pump rate. Pump 1/2 gal HE-100
 Polymer Flush. Circulate well to condition hole. Mix + Pump 100#
 Gel Flush. Mix + Pump 94 sks 50/50 Poz Mix Cement 2 7/8 Gal 5%
 Soft 5" Kol Seal/sk. Cement to surface. Flush pump lines
 clean. Displace 2 3/4" Rubber Plug to Baffle. Pressure to 800#.
 P.S. Release pressure to set float valve. Shut in casing.

TDS Drilling: Wes.

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	CE0450	PUMP CHARGE	467	1085 ⁰⁰
5406	CE0002	30 mi MILEAGE	467	726 ⁰⁰
5402	CE0401	Casing Footage		NIC
5407	CE0711	Ten Miles	558	368 ⁰⁰
5502C	WE0853	80 BBL Vac Truck	675	150 ⁰⁰
		SubTotal		1729 ⁰⁰
		Less 30%		-518 ²⁰
				1210 ³⁰
1124	CC5840	945 SKS 50/50 Poz Mix Cement		1081 ⁰⁰
1118B	CC5965	258# Premium Gel		562 ⁶⁰
1111	CC5326	89# Granulated Soft		73 ²¹
1110A	CC6077	470# Kol Seal		216 ²⁰
4402	CP8176	1 2 1/2" Rubber Plug		29 ⁵⁰
1401		1/2 Gal HE 100 Polymer		23 ⁶³
		Material		1480 ⁰⁰
		Less 30%		-444 ³⁴
				1036 ⁵⁷
		7.65%	SALES TAX ESTIMATED TOTAL	79 ³⁰
				12326 ¹⁰

AUTHORIZATION Bryan Miller TITLE _____

DATE 3/3/18

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