

Miami County, KS
Well: Nevius AI-13

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

Commenced Spudding:
5-1-2015

Lease Owner: Altavista Energy

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 25	Soil - Clay	25
19	Shale	44
44	Lime	88
20	Shale	108
9	Lime	117
29	Shale	146
4	Lime	150
35	Shale	185
1	Lime	186
3	Shale	189
10	Lime	199
15	Shale	214
25	Lime	239
7	Shale	246
20	Lime	266
5	Shale	271
2	Lime	273
6	Shale	279
7	Lime	286
8	Shale	294
1	Sand	295
2	Sand	297
2	Sand	299
1	Sand	300
17	Shale	317
10	Sand	327
13	Sandy Shale	340
140	Shale	480
6	Lime	486
3	Shale	489
17	Lime	506
20	Shale	526
3	Lime	529
10	Shale	539
4	Lime	543
9	Shale	552
6	Lime	558
72	Shale	630
1	Sandy Shale	631
1	Sand	632

Lease Owner: Altavista Energy

(913) 837-8400

5-1-2015

[illegible][illegible]

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. A1-13

Farm Navius

KS Miami
(State) (County)

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

For DE
(Well Owner)

Dry Hole

**Town Oilfield
Services, Inc.**

1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
0-25	soil-clay	25	
19	Shale	44	
44	Lime	88	
20	Shale	108	
9	Lime	117	
29	Shale	146	
4	Lime	150	
35	Shale	185	
1	Lime	186	
3	Shale	189	
10	Lime	199	
15	Shale	214	
25	Lime	239	Winterset
7	Shale	246	
20	Lime	266	Bethany Falls
5	Shale	271	
2	Lime	273	KC
6	Shale	279	
7	Lime	286	Hertha
8	Shale	294	
1	Sand	295	Odor, Good Bleed
2	Sand	297	See oil
2	Sand	299	Solid, Oil
1	Sand	300	Broken, 20%
17	Shale	317	
10	Sand	327	OK Bleed, Odor, Broken
13	Sandy Shale	340	NO OIL

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REMIT TO

Consolidated Oil Well Services, LLC
Dept:970
P.O.Box 4346
Houston, TX 77210-4346

MAIN OFFICE

P.O.Box 884
Chanute, KS 66720
620/431-9210, 1-800/467-8676
Fax 620/431-0012

Invoice

Invoice#

804212

Invoice Date: 05/19/15

Terms: Net 30

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ALTAVISTA ENERGY INC

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

NEVIDS AI-13

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0457	Cement Pump Charge 8001' - 9000'	1.000	1,085.0000	30.000	759.50
CE0002	Equipment Mileage Charge - Heavy Equipment	30.000	4.2000	30.000	88.20
CE0711	Minimum Cement Delivery Charge	1.000	368.0000	30.000	257.60
WE0853	80 BBL Vacuum Truck (Cement Services)	1.500	100.0000	30.000	105.00
CC5840	Poz-Blend I A (50:50)	49.000	11.5000	30.000	394.45
CC5965	Bentonite	247.000	0.2200	30.000	38.04

Subtotal 2,346.84

Discounted Amount 704.05

SubTotal After Discount 1,642.79

Amount Due 2,394.10 If paid after 06/18/15

Tax: 33.09

Total: 1,675.88

CONSOLIDATED
Oil Well Services, LLC

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

Invoice #804212

FIELD TICKET & TREATMENT REPORT

CEMENT

TICKET NUMBER 50927
LOCATION Ottawa
FOREMAN Alan Made

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-4-15	3244	Nevada A-13	NE 17	16	24	M:
CUSTOMER						
Altavista Energy						
MAILING ADDRESS						
P.O. Box 128						
CITY		STATE	ZIP CODE			
Wellsville		KS	66092			

TRUCK #	DRIVER	TRUCK #	DRIVER
7312	Ma Mad	Safety	Meet
368	Art M.		
675	Kei Det		
804	Gar M		

JOB TYPE <u>plug</u>	HOLE SIZE <u>5 5/8</u>	HOLE DEPTH <u>650</u>	CASING SIZE & WEIGHT
CASING DEPTH	DRILL PIPE	TUBING <u>drill steel</u>	<u>63D</u> OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE <u>4 bpm</u>

REMARKS: Held Meeting Established rate. Mixed & pumped
10 sk 50/50 cement plus 6% gel. Pulled drill
steel to 300 Mixed & pumped 39 sk more
cement. Circulated cement to surface. Pulled steel
out. Topped off well

49. SK to 191

Alan Mader

[illegible]

Rayln 3737

AUTHORIZATION Sergeant with 11th TITLE _____ DATE 2394.10

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.