

Miami County, KS
Well: Windler-Stephens A-9
Lease Owner: AltaVista

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

Commenced Spudding:
11/25/2015

| Core | | |
|------|--------------------|-------|
| | | 483 |
| 2 | Sand | 485 |
| 1.5 | Sand & Sandy Shale | 486.5 |
| 10.5 | Sandy Shale | 497 |
| | | |
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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 $SPM \times d$

$$\text{BELT LENGTH} = 2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$$

* Need these to figure belt length

$$\text{TO FIGURE AMPS: } \frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$$

746-WATTS equal 1 HP

Log Book

Well No. A-9

Farm Windler - Stephens

KS Miami
(State) (County)

21 18 24
(Section) (Township) (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
ICS State; Well No. A-9

Elevation 938

Commenced Spuding 11-25 ¹⁵/₂₀

Finished Drilling 12-7 ¹⁵/₂₀

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, 2805 ft.

Distance from E line, 4215 ft.

3 sacks 2 7/8 casing
 1 core
 8 hrs
 5 5/8 borehole

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

7 3/4" Set 20 6 1/2" Pulled _____

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

| Feet | In. | Feet | In. | Feet | In. |
|--------|-----|-------------|-----|-------|-----|
| 477.80 | | seat nipple | | | |
| 509.50 | | Baffle | | | |
| 537.45 | | Float | | | |
| 560 TD | | | | 2 7/8 | |
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| Thickness of Strata | Formation | Total Depth | Remarks |
|---------------------|-------------|-------------|------------------------|
| 0-11 | soil - clay | 11 | |
| 9 | Lime | 20 | |
| 12 | shale | 32 | |
| 34 | Lime | 66 | |
| 7 | shale | 73 | |
| 22 | Lime | 95 | |
| 4 | shale | 99 | |
| 2 | Lime | 101 | |
| 4 | shale | 105 | |
| 6 | Lime | 111 | Hertha |
| 21 | shale | 132 | |
| 19 | sand | 151 | |
| 16 | sandy shale | 167 | broken - good oil show |
| 107 | shale | 274 | |
| 15 | sand | 289 | no oil |
| 32 | shale | 321 | |
| 6 | Lime | 327 | |
| 9 | shale | 336 | |
| 2 | Lime | 338 | |
| 7 | shale | 345 | |
| 8 | Lime | 353 | |
| 3 | sand | 356 | no oil |
| 12 | shale | 368 | |
| 3 | Lime | 371 | |
| 12 | shale | 383 | |
| 28 | Lime | 411 | |
| 71 | shale | 482 | |

482

| Thickness of Strata | Formation | Total Depth |
|---------------------|-----------|-------------|
| 1 | sand | 483 |
| 14 | core | 497 |
| 63 | shale | 560 |
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Remarks
solid - good saturation
page 6
T.D

| Thickness of Strata | Formation | Total Depth | Remarks |
|---------------------|--------------------|-------------|--------------------------|
| | | | |
| | Core | | |
| | | 483 | |
| 2 | sand | 485 | solid - good saturation |
| 1.5 | sand & sandy shale | 486.5 | broken - good saturation |
| 10.5 | sandy shale | 497 | |
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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.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice Invoice# 806577

Invoice Date: 12/08/15 Terms: Net 30 Page 1

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

Windler Stephens A-9

| 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) | 1.000 | 100.0000 | 46.000 | 54.00 |
| CC5840 | Poz-Blend I A (50:50) | 68.000 | 13.5000 | 46.000 | 495.72 |
| CC5965 | Bentonite | 214.000 | 0.3000 | 46.000 | 34.67 |
| CC5326 | Sodium Chloride, Salt | 131.000 | 0.7500 | 46.000 | 53.06 |
| CC6077 | Kolseal | 340.000 | 0.5000 | 46.000 | 91.80 |
| CP8176 | 2 7/8" Top Rubber Plug | 1.000 | 45.0000 | 46.000 | 24.30 |

Subtotal 3,769.95
 Discounted Amount 1,734.18
 SubTotal After Discount 2,035.77

Amount Due 3,873.59 If paid after 01/07/16

Tax: 55.96
 Total: 2,091.74



CONSOLIDATED
Oil Well Services, LLC

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

Invoice # 005114843 ¹⁴⁹³⁸

TICKET NUMBER 49920
LOCATION Ottawa
FOREMAN Alan Maden

FIELD TICKET & TREATMENT REPORT
CEMENT

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|---|------------|---------------------|--|----------|-------|--------|
| 12-7-15 | 3244 | Winder Stephens A-9 | NW 21 | 18 | 24 | Mi |
| CUSTOMER <u>Alta Vista Energy</u> | | | TRUCK # DRIVER TRUCK # DRIVER | | | |
| MAILING ADDRESS <u>P.O. Box 128</u> | | | 730 <u>Alan Mad</u> 545 <u>Safety Meet</u> | | | |
| CITY STATE ZIP CODE <u>Wellsville KS 66092</u> | | | 675 <u>Ken Det</u> | | | |
| | | | M:K Hga | | | |

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 360 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 537 DRILL PIPE _____ TUBING _____ OTHER baffle 5'0
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING yes
 DISPLACEMENT _____ DISPLACEMENT PSI 800 MIX PSI 200 RATE 5 bpm

REMARKS: Held Meeting Established rate. Mixed & pumped 100# gel followed by 68 sk Poz blend I-A plus 290 gel, 50 salt & 5# hole seal per sack. Circulated cement. Flashed pump. Pumped plug to baffle. Well held 800 PSI. Set float.

TDS was

Alan Maden

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|-----------------|---------|
| CE 0450 | 1 | PUMP CHARGE | 495 | 1500.00 |
| CE 0002 | 30 | MILEAGE | 455 | 214.50 |
| CE 0711 | min | ten miles | | 660.00 |
| WE 0853 | 1 | 80 var | 675 | 100.00 |
| | | Sub total | | 2474.50 |
| | | less 46% | | 1138.27 |
| | | | | 1336.23 |
| CC 5840 | 68 sk | Poz blend I-A | | 918.00 |
| CC 5965 | 214 # | gel | | 64.20 |
| CC 5326 | 131 # | salt | | 98.25 |
| CG 6077 | 340 # | hole seal | | 170.00 |
| CP 8176 | 1 | 2 1/2 plug | | 45.00 |
| | | Sub total | | 1275.45 |
| | | less 46% | | 595.91 |
| | | | | 699.54 |
| | | 8 | SALES TAX | 35.00 |
| | | | ESTIMATED TOTAL | 2091.79 |
| | | | | 3873.59 |

Revin 3737

AUTHORIZATION Bryan Kelly 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.