

Miami County, KS
Well: Knoche A-3
Lease Owner: AltaVista

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

Commenced Spudding:
1/14/16

| Core | | |
|------|-------------|-------|
| | | 491 |
| 1 | Sand | 492 |
| 3.5 | Sandy Shale | 495.5 |
| 1 | Laminated | 496.5 |
| 1 | Sandy Shale | 497.5 |
| 1.5 | Sand | 499 |
| 2 | Sandy Shale | 501 |
| 1.5 | Sand | 502.5 |
| 6.5 | Sandy Shale | 509 |

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. A-3

Farm Knoche

KS Miami
(State) (County)

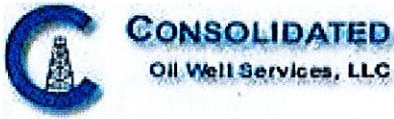
16 18 24
(Section) (Township) (Range)

For Altavista Energy inc
(Well Owner)

Town Oilfield Services, Inc.

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

| Thickness of Strata | Formation | Total Depth | Remarks |
|---------------------|-------------|-------------|-------------------------|
| 0-18 | Soil-clay | 18 | |
| 8 | Lime | 26 | |
| 14 | shale | 40 | |
| 32 | Lime | 72 | |
| 7 | shale | 79 | |
| 19 | Lime | 98 | |
| 5 | shale | 103 | |
| 2 | Lime | 105 | |
| 4 | shale | 109 | |
| 6 | Lime | 115 | Heathq |
| 20 | shale | 135 | |
| 17 | sand | 152 | slight blow |
| 37 | sandy shale | 189 | |
| 85 | shale | 274 | |
| 11 | sand | 285 | water |
| 40 | shale | 325 | |
| 7 | Lime | 332 | |
| 18 | shale | 350 | |
| 8 | Lime | 358 | |
| 15 | shale | 373 | |
| 4 | Lime | 377 | |
| 14 | shale | 391 | |
| 23 | Lime | 414 | |
| 72 | shale | 486 | |
| 4 | sandy shale | 490 | |
| 1 | sand | 491 | solid - good saturation |
| 18 | wire | 509 | page 6 |



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#

806857

Invoice Date: 01/20/16

Terms: Net 30

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

knoche #a-3

| 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) | 74.000 | 13.5000 | 46.000 | 539.46 |
| CC5965 | Bentonite | 224.000 | 0.3000 | 46.000 | 36.29 |
| CC5326 | Sodium Chloride, Salt | 143.000 | 0.7500 | 46.000 | 57.92 |
| CC6077 | Kolseal | 370.000 | 0.5000 | 46.000 | 99.90 |
| CP8176 | 2 7/8" Top Rubber Plug | 1.000 | 45.0000 | 46.000 | 24.30 |

Subtotal 3,877.95

Discounted Amount 1,783.86

SubTotal After Discount 2,094.09

Amount Due 3,990.23 If paid after 02/19/16

Tax: 60.63

Total: 2,154.73



CONSOLIDATED
Oil Well Services, LLC

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

5163
5070

TICKET NUMBER 49964
LOCATION Ottawa KS
FOREMAN Fred Madar

**FIELD TICKET & TREATMENT REPORT
CEMENT**

Invoice # 806857

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|----------------------|------------|--------------------|---------|----------------------|---------|--------|
| 1-15-16 | 3244 | Knoche # A-3 | SW 16 | 18 | 24 | MI |
| CUSTOMER | | | TRUCK # | DRIVER | TRUCK # | DRIVER |
| Altavista Energy Inc | | | 712 | Fred Madar | | |
| MAILING ADDRESS | | | 467 | Mike Carr | | |
| P.O. Box 128 | | | 675 | Kai Det | | |
| CITY | STATE | ZIP CODE | 510 | Avl Madar | | |
| Wellsville | KS | 66092 | | | | |

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 560 CASING SIZE & WEIGHT 2 7/8 EVE
 CASING DEPTH 549 DRILL PIPE Baffle tubing @ 518 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 29' 2" Plug
 DISPLACEMENT 3 BALS DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold Safety meeting. Establish pump rate. Mix Pump 100*
 Gel Flush. Mix & Pump 74 sks Por Blend I A Cement 2% Gel
 5% Salt 5* Kol Seal/sk. Cement to surface. Flush pump & lines
 clean. Displace 2 1/2" Rubber plug to ~~the~~ Baffle in casing. Pressure
 to 800* PSI. Release pressure to set float valve. Shut in Casing.

TOS Drilling. Was.

Fred Madar

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|---------------------------------------|--------------------|
| CE0450 | 1 | PUMP CHARGE | 467 467 1500 ⁰⁰ | |
| CE0002 | 30 mi | MILEAGE | 467 2145 ⁰⁰ | |
| CE0711 | Minimum | Tom Miles Delivery | 510 660 ⁰⁰ | |
| WE0850 | 1 hr | 60 BBL Vac Truck | 675 100 ⁰⁰ | |
| | | Sub Total | 2474 ⁵⁰ | |
| | | Less 46% | -1188 ²⁷ | 1326 ²³ |
| CC5840 | 74 sks | Por Blend I A Cement | 999 ⁰⁰ | |
| CC5965 | 224* | Bealovite Gel | 67 ²⁰ | |
| CC5326 | 143* | Salt | 107 ³⁵ | |
| CC6077 | 370* | Kol Seal | 185 ⁰⁰ | |
| CP8174 | 1 | 2 1/2" Rubber Plug | 45 ⁰⁰ | |
| | | Sub Total | 1403 ⁴⁵ | |
| | | Less | -645 ⁵⁹ | 757 ⁸⁶ |
| | | 9% | SALES TAX | 60 ⁶³ |
| | | ESTIMATED TOTAL | | 2154 ⁷³ |

Ravin 8737

AUTHORIZATION No Co Rep on Site TITLE _____ DATE 3-9-16

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.