

Johnson County, KS
 Well: Evans #4
 Lease Owner: DE Exploration

Town Oilfield Service, Inc.
 (913) 294-2125

Commenced Spudding:
 1/23/17

WELL LOG

| Thickness of Strata | Formation | Total Depth |
|---------------------|--------------------|-------------|
| 0-28 | Soil-Clay | 28 |
| 26 | Shale | 54 |
| 22 | Lime | 76 |
| 7 | Shale | 83 |
| 9 | Lime | 92 |
| 6 | Sandy Shale | 98 |
| 18 | Lime | 116 |
| 18 | Shale | 134 |
| 6 | Sand | 140 |
| 26 | Lime | 166 |
| 8 | Shale | 174 |
| 6 | Sandy Shale | 180 |
| 16 | Shale | 196 |
| 12 | Lime | 208 |
| 22 | Shale | 230 |
| 9 | Lime | 239 |
| 7 | Shale | 246 |
| 11 | Lime | 257 |
| 14 | Shale | 271 |
| 6 | Shale & Lime | 277 |
| 6 | Lime | 283 |
| 4 | Shale | 287 |
| 6 | Lime | 293 |
| 33 | Shale | 326 |
| 2 | Lime | 328 |
| 9 | Shale | 337 |
| 26 | Lime | 363 |
| 6 | Shale | 369 |
| 23 | Lime | 392 |
| 3 | Shale | 395 |
| 4 | Lime | 399 |
| 4 | Shale | 403 |
| 7 | Lime | 410 |
| 28 | Shale | 438 |
| 10 | Sand & Sandy Shale | 448 |
| 132 | Shale | 580 |
| 4 | Lime | 584 |
| 4 | Shale | 588 |
| 2 | Lime | 590 |
| 11 | Shale | 601 |

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times 14xh$

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. 4

Farm Evans

KS
(State)

Johnson
(County)

1
(Section)

15
(Township)

21
(Range)

For D.E. Exploration
(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

| Thickness of Strata | Formation | Total Depth | Remarks |
|---------------------|--------------|-------------|---------|
| 0-28 | soil-clay | 28 | |
| 26 | shale | 54 | |
| 22 | Lime | 76 | |
| 7 | Shale | 83 | |
| 9 | Lime | 92 | |
| 6 | sandy shale | 98 | |
| 18 | Lime | 116 | |
| 18 | shale | 134 | redbed |
| 6 | sand | 140 | water |
| 26 | Lime | 166 | |
| 8 | shale | 174 | |
| 6 | sandy shale | 180 | |
| 16 | shale | 196 | |
| 12 | Lime | 208 | |
| 22 | shale | 230 | |
| 9 | Lime | 239 | |
| 7 | shale | 246 | |
| 11 | Lime | 257 | |
| 14 | shale | 271 | |
| 6 | shale & lime | 277 | |
| 6 | Lime | 283 | |
| 4 | shale | 287 | |
| 6 | Lime | 293 | |
| 33 | shale | 326 | |
| 2 | Lime | 328 | |
| 9 | shale | 337 | |
| 26 | Lime | 363 | |

363

| Thickness of Strata | Formation | Total Depth | Remarks |
|---------------------|--------------------|-------------|-----------------------------------|
| 6 | Shale | 369 | |
| 23 | Lime | 392 | |
| 3 | Shale | 395 | |
| 4 | Lime | 399 | |
| 4 | Shale | 403 | |
| 7 | Lime | 410 | Hertha |
| 28 | Shale | 438 | |
| 10 | sand & sandy shale | 448 | no oil |
| 132 | Shale | 580 | |
| 4 | Lime | 584 | |
| 4 | Shale | 588 | |
| 2 | Lime | 590 | |
| 11 | Shale | 601 | |
| 7 | Lime | 608 | |
| 14 | Shale | 622 | |
| 3 | Lime | 625 | |
| 13 | Shale | 638 | |
| 2 | Lime | 640 | |
| 21 | Shale | 661 | redbed |
| 2 | Lime | 663 | |
| 2 | Shale | 665 | |
| 2 | Lime | 667 | |
| 69 | Shale | 736 | |
| 5 | sand | 741 | gas oolite - laminated brown sand |
| 115 | Shale | 856 | |
| 20 | Coal | 876 | page 86 |
| 4 | sandy shale | 880 | |



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#

809423

Invoice Date: 01/27/17

Terms: Net 30

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D.E. EXPLORATION

P.O. BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

EVANS #4

| Part No | Description | Quantity | Unit Price | Discount(%) | Total |
|---------|--|----------|------------|-------------|--------|
| CE0450 | Cement Pump Charge 0 - 1500' | 1.000 | 1,500.0000 | 60.000 | 600.00 |
| CE0002 | Equipment Mileage Charge - Heavy Equipment | 25.000 | 7.1500 | 60.000 | 71.50 |
| CE0711 | Minimum Cement Delivery Charge | 1.000 | 660.0000 | 60.000 | 264.00 |
| WE0853 | 80 BBL Vacuum Truck (Cement Services) | 2.000 | 100.0000 | 60.000 | 80.00 |
| CC5840 | Poz-Blend I A (50:50) | 124.000 | 13.5000 | 60.000 | 669.60 |
| CC5965 | *Bentonite* | 308.000 | 0.3000 | 60.000 | 36.96 |
| CC5326 | Sodium Chloride, Salt | 250.000 | 1.0000 | 60.000 | 100.00 |
| CC6077 | Kolseal | 620.000 | 0.5000 | 60.000 | 124.00 |
| CP8176 | 2 7/8" Top Rubber Plug | 1.000 | 45.0000 | 60.000 | 18.00 |

Subtotal 4,910.15

Discounted Amount 2,946.09

SubTotal After Discount 1,964.06

Amount Due 5,093.34 If paid after 02/26/17

Tax: 73.28

Total: 2,037.34



CONSOLIDATED
Oil Well Services, L.L.C.

7402
7300

TICKET NUMBER 50364
LOCATION Ottawa KS
FOREMAN Fred Maden

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

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # **809423**

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|----------------------------------|------------|-----------------------------|-------------------|----------|-------|--------|
| 1-25-17 | 2355 | Evans #4 | NE 1 | 15 | 21 | JO |
| CUSTOMER D E Exploration | | | | | | |
| MAILING ADDRESS P. O. Box 128 | | | | | | |
| CITY Wellsville | | STATE KS | ZIP CODE 66092 | | | |
| TRUCK # | | DRIVER | | TRUCK # | | DRIVER |
| 712 | | Fre Mad | | | | |
| 250 495 | | ATLANTA Har Boc. | | | | |
| 675 | | Ki Det | | | | |
| 548 | | Mik Haa | | | | |

JOB TYPE Longstring HOLE SIZE _____ HOLE DEPTH 940' CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 915' DRILL PIPE Baffle tubing @ 983 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 232' Plug
DISPLACEMENT 5.13 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold Safety meeting. Establish circulation Mix & Pump 100%
Gel Flush. Mix & Pump 124 slcs Por Bleed IA Cement 2%
Gel 5% Salt 5# Kal 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. Shut in Casing.

Fred Maden

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|-------------------------|--------|
| CE0450 | 1 | PUMP CHARGE | 495 1500 ⁰⁰ | ✓ |
| CE0002 | 25 mi | MILEAGE | 495 17875 ⁰⁰ | ✓ |
| CE0711 | Minimum | Ten Miles Delivery | 548 660 ⁰⁰ | ✓ |
| WE0853 | 2 hrs | 90 BBL Vac Truck | 675 200 ⁰⁰ | ✓ |
| | | Sub Total | 253875 | |
| | | Less 60% | - 152325 | 101550 |
| 1153 CC5840 | 124 slcs | Por Bleed IA Cement | 1674 ⁰⁰ | ✓ |
| CC5965 | 308 # | Bentonite Gel | 924 ⁰⁰ | ✓ |
| CC5326 | 250 # | Granulated Salt | 250 ⁰⁰ | ✓ |
| CC6077 | 620 # | Kal Seal | 310 ⁰⁰ | ✓ |
| CP8176 | 1 | 2 1/2" Rubber Plug | 45 ⁰⁰ | ✓ |
| | | Sub Total | 237140 | |
| | | Less 60% | 142284 | 94856 |
| | | 7.725% | SALES TAX | 23.28 |
| | | | ESTIMATED TOTAL | 203734 |

Revin 3797

AUTHORIZATION Bryan Mly TITLE _____ DATE 1/30/17

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