

Johnson County, KS

Town Oilfield Service, Inc.

Commenced Spudding:

Well: Evans I-4

(913) 294-2125

2/9/17

Lease Owner:DE Exploration

WELL LOG

| Thickness of Strata | Formation | Total Depth |
|---------------------|-----------|-------------|
| 0-35 | Soil-Clay | 35 |
| 16 | Shale | 51 |
| 22 | Lime | 73 |
| 6 | Shale | 79 |
| 10 | Lime | 89 |
| 5 | Shale | 94 |
| 18 | Lime | 112 |
| 18 | Shale | 130 |
| 6 | Lime | 136 |
| 26 | Shale | 162 |
| 31 | Lime | 193 |
| 12 | Shale | 205 |
| 22 | Lime | 227 |
| 8 | Shale | 235 |
| 7 | Lime | 242 |
| 10 | Shale | 252 |
| 19 | Lime | 271 |
| 7 | Shale | 278 |
| 5 | Lime | 283 |
| 7 | Shale | 290 |
| 33 | Lime | 323 |
| 2 | Shale | 325 |
| 9 | Lime | 334 |
| 25 | Shale | 359 |
| 8 | Lime | 367 |
| 22 | Shale | 389 |
| 3 | Lime | 392 |
| 3 | Lime | 395 |
| 5 | Shale | 400 |
| 6 | Lime | 406 |
| 32 | Shale | 438 |
| 6 | Sand | 444 |
| 132 | Shale | 576 |
| 5 | Lime | 581 |
| 3 | Shale | 584 |
| 2 | Lime | 586 |
| 11 | Shale | 597 |
| 7 | Lime | 604 |
| 14 | Shale | 618 |
| 3 | Lime | 621 |

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 - $\text{RPM} \times d$ over $\text{SPM} \times R$

d - $\text{SPM} \times R \times D$ over RPM

SPM - $\text{RPM} \times D$ over $R \times d$

R - $\text{RPM} \times D$ over $\text{SPM} \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. I-4

Farm Evans

KS Johnson
(State) (County)

1 15 21
(Section) (Township) (Range)

For D.E. Exploration
(Well Owner)

Town Oilfield Services, Inc.

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

Evans Farm: Johnson County
 KS State; Well No. I-4

Elevation 1022
 Commenced Spuding 2-9 2017
 Finished Drilling 2-10 2017
 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
 1 15 21

(Section) (Township) (Range)
 Distance from S line, 4360 ft.
 Distance from E line, 890 ft.

3 sacks
 9 his
 5 7/8 bore hole
 2 7/8 casing

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____
 8" Set _____ 8" Pulled _____
 7 5/8" Set 20 6 1/4" Pulled _____
 4" Set _____ 4" Pulled _____
 2" Set _____ 2" Pulled _____

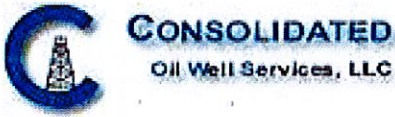
CASING AND TUBING MEASUREMENTS

| Feet | In. | Feet | In. | Feet | In. |
|------|-----|--------|-----|------|-------|
| 886. | 10 | Baffle | 1e | | |
| 917. | 90 | Float | | | 2 7/8 |
| 940 | TD | | | | |
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| Thickness of Strata | Formation | Total Depth | Remarks |
|---------------------|-----------|-------------|-----------------|
| 0-35 | soil-clay | 35 | |
| 16 | shale | 51 | |
| 22 | Lime | 73 | |
| 6 | Shale | 79 | |
| 10 | Lime | 89 | |
| 5 | Shale | 94 | |
| 18 | Lime | 112 | |
| 18 | Shale | 130 | |
| 6 | sand | 136 | redbed water |
| 26 | Lime | 162 | |
| 31 | Shale | 193 | |
| 12 | Lime | 205 | |
| 22 | Shale | 227 | |
| 8 | Lime | 235 | |
| 7 | Shale | 242 | |
| 10 | Lime | 252 | |
| 19 | shale | 271 | |
| 7 | Lime | 278 | |
| 5 | shale | 283 | |
| 7 | Lime | 290 | |
| 33 | Shale | 323 | |
| 2 | Lime | 325 | |
| 9 | Shale | 334 | |
| 25 | Lime | 359 | |
| 8 | Shale | 367 | |
| 22 | Lime | 389 | |
| 3 | Shale | 392 | |

392

| Thickness of Strata | Formation | Total Depth | Remarks |
|---------------------|-------------|-------------|-------------------------|
| 3 | Lime | 395 | |
| 5 | Shale | 400 | |
| 6 | Lime | 406 | Hertha |
| 32 | Shale | 438 | |
| 6 | sand | 444 | grey - no Oil |
| 132 | Shale | 576 | |
| 5 | Lime | 581 | |
| 3 | Shale | 584 | |
| 2 | Lime | 586 | |
| 11 | Shale | 597 | |
| 7 | Lime | 604 | |
| 14 | Shale | 618 | |
| 3 | Lime | 621 | |
| 14 | Shale | 635 | |
| 2 | Lime | 637 | |
| 23 | Shale | 660 | red bed |
| 1 | Lime | 661 | |
| 3 | Shale | 664 | |
| 1 | Lime | 665 | |
| 68 | Shale | 733 | |
| 5 | sand | 738 | broken - gas odor |
| 117 | Shale | 855 | |
| 1 | sandy Lime | 856 | broken oil |
| perf 5 | sand | 861 | solid - good saturation |
| 13 | sandy shale | 874 | |
| 66 | Shale | 940 | TD |



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# 809581

Invoice Date: 02/14/17 Terms: Net 30 Page 1

D.E. EXPLORATION

P.O. BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

EVANS #14

| 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) | 2.500 | 100.0000 | 60.000 | 100.00 |
| CC5840 | Poz-Blend I A (50:50) | 119.000 | 13.5000 | 60.000 | 642.60 |
| CC5965 | *Bentonite* | 300.000 | 0.3000 | 60.000 | 36.00 |
| CC5326 | Sodium Chloride, Salt | 240.000 | 1.0000 | 60.000 | 96.00 |
| CC6077 | Kolseal | 595.000 | 0.5000 | 60.000 | 119.00 |
| CC6128 | Mud Flush - C | 0.500 | 50.0000 | 60.000 | 10.00 |
| CP8176 | 2 7/8" Top Rubber Plug | 1.000 | 45.0000 | 60.000 | 18.00 |

Subtotal 4,892.75
 Discounted Amount 2,935.65
 SubTotal After Discount 1,957.10

Amount Due 5,070.73 If paid after 03/16/17

Tax: 71.19
 Total: 2,028.29



CONSOLIDATED
Oil Well Services, LLC

7534
7430

TICKET NUMBER 50393

LOCATION Oklahoma

FOREMAN Fred Maden

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

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 809581

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|-----------------|------------|--------------------|----------|----------|-------|--------|
| 2-10-17 | 2355 | Evans # 14 | NE 1 | 15 | 21 | JO |
| CUSTOMER | | | TRUCK # | | | |
| D E Exploration | | | DRIVER | | | |
| MAILING ADDRESS | | | TRUCK # | | | |
| P.O. Box 128 | | | DRIVER | | | |
| CITY | | STATE | ZIP CODE | | | |
| Wellsville | | KS | 66092 | | | |

JOB TYPE Logging HOLE SIZE 5 7/8 HOLE DEPTH 940 CASING SIZE & WEIGHT 2 3/8 EUE
 CASING DEPTH 917 DRILL PIPE Baffle TUBING 3 5/8 OTHER -
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 3' + Plug
 DISPLACEMENT 5.85 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 40 BPM

REMARKS: Hold Safety Meeting. Establish pump rate. Pump 1/2 Gal Mud Flush + Circulate to Condition hole. Mix & Pump 100# Gel Flush, Mix & Pump 119 SKS Per Blend I-A Cement 270 Gal 570 Salt 5# Kol 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.

Town Oilwell Services Drilling.

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 | 178.25 |
| CE0711 | Minimum | Ten Miles Delivery | 558 | 660.00 |
| WE0853 | 2 1/2 hr | 60 B3L Vac Truck | 369 | 250.00 |
| | | Sub Total | | 2588.25 |
| | | Less 60% | | 1035.50 |
| 11340 CE5840 | 119 SKS | Per Blend I-A Cement | | 1606.50 |
| CC 5965 | 300# | Baronite Gel | | 90.00 |
| CC 5326 | 240# | Salt | | 240.00 |
| CC 6077 | 595# | Kol Seal | | 297.50 |
| CC 6125 | 1/2 Gal | Mud Flush C | | 25.00 |
| CP 8176 | 1 | 2 1/2" Rubber Plug | | 45.00 |
| | | Sub Total | | 2304.00 |
| | | Less 60% | | 921.60 |
| | | 7.785 | SALES TAX | 71.19 |
| | | | ESTIMATED TOTAL | 2028.29 |
| | | | | (5070.23) |

Ravin 3737

AUTHORIZATION Bryan Mills

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.