

Johnson County, KS  
Well: Evans # 3  
Lease Owner:DE Exploration

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

Commenced Spudding:  
2/7/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-34	Soil-Clay	34
12	Shale	46
22	Lime	68
7	Shale	75
10	Lime	85
4	Sandy Shale	89
18	Lime	107
18	Shale	125
8	Sand	133
25	Lime	158
29	Shale	189
12	Lime	201
21	Shale	222
9	Lime	231
8	Shale	239
11	Lime	250
17	Shale	267
8	Lime	275
4	Shale	279
7	Lime	286
33	Shale	319
1	Lime	320
10	Shale	330
25	Lime	355
7	Shale	362
22	Lime	384
4	Shale	388
4	Lime	392
4	Shale	396
6	Lime	402
31	Shale	433
6	Sand	439
135	Shale	574
4	Lime	578
4	Shale	582
2	Lime	584
10	Shale	594
7	Lime	601
14	Shale	615
4	Lime	619



# 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 Shaft

\* 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. 3

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

Evans Farm: Johnson County

KS State; Well No. 3

Elevation 1020

Commenced Spuding 2-7 20 17

Finished Drilling 2-8 20 17

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 JOS

1 15 21

(Section) (Township) (Range)  
Distance from S line, 4580 ft.

Distance from E line, 1120 ft.

3 sacks  
9 hrs  
5 5/8 borehole  
2 7/8 casing

CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_  
8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_  
7 6 3/4" Set 20 \_\_\_\_\_ 6 3/4" Pulled \_\_\_\_\_  
4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_  
2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
847.	35	Seat nipple			
879.	35	Baffle			
911.	05	Float			
940	TD			2	7/8

Thickness of Strata	Formation	Total Depth	Remarks
0-34	soil-clay	34	
12	Shale	46	
22	Lime	68	
7	Shale	75	
10	Lime	85	
4	sandy shale	89	
18	Lime	107	
18	Shale	125	redbed
8	sand	133	water
25	Lime	158	
29	shale	189	
12	Lime	201	
21	Shale	222	
9	Lime	231	
8	Shale	239	
11	Lime	250	
17	Shale	267	
8	Lime	275	
4	shale	279	
7	Lime	286	
33	Shale	319	
1	Lime	320	
10	shale	330	
25	Lime	355	
7	Shale	362	
22	Lime	384	
4	Shale	388	

# Well # 3

388

Thickness of Strata	Formation	Total Depth	Remarks
4	Lime	392	
4	Shale	396	
6	Lime	402	Hertha
31	Shale	433	
6	sand	439	no oil
135	Shale	574	
4	Lime	578	
4	Shale	582	
2	Lime	584	
10	Shale	594	
7	Lime	601	
14	Shale	615	
4	Lime	619	
14	Shale	633	
1	Lime	634	
22	Shale	656	redbed
3	Lime	659	
2	Shale	661	
3	Lime	664	
67	Shale	731	
7	sand	738	broken - gas odor
112	Shale	850	
1	sandy lime	851	no oil
perf 7	sand	858	mostly solid - good saturation
15	sandy shale	873	
67	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#

809556

Invoice Date: 02/10/17

Terms: Net 30

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D.E. EXPLORATION

P.O. BOX 128  
 WELLSVILLE KS 66092  
 USA  
 7858834057

EVANS #3

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)	118.000	13.5000	60.000	637.20
CC5965	*Bentonite*	298.000	0.3000	60.000	35.76
CC5326	Sodium Chloride, Salt	238.000	1.0000	60.000	95.20
CC6077	Kolseal	590.000	0.5000	60.000	118.00
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	60.000	18.00

Subtotal 4,799.15

Discounted Amount 2,879.49

SubTotal After Discount 1,919.66

Amount Due 4,973.77 If paid after 03/12/17

Tax: 69.85

Total: 1,989.51



**CONSOLIDATED**  
Oil Well Services, LLC

7510  
7400

TICKET NUMBER 50389

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 # 809556**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-8-17	2355	Evans # 3	NE 1	15	21	JO
CUSTOMER D E Exploration			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 128			712 Fred Mad			
CITY STATE ZIP CODE Wellsville KS 66092			495 Har Bec			
			369 Mik Hag			
			558 Arl Mad			

JOB TYPE log string HOLE SIZE 5 7/8 HOLE DEPTH 940 CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 940 DRILL PIPE Baffle in TUBING @ 879 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 31' x Plug  
 DISPLACEMENT 5.11 BAL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 BPM

REMARKS: Hold Safety meeting. Establish pump rate. Mix + Pump 100\*  
Get Flush. Mix + Pump 115' sks For Blend I A Cement 220 Gal  
5% Salt 5" Kol Seal/sk. Cement to surface. Flush pump + line  
clean. Displace 2 1/2" Rubber plug to Baffle in Casing. Pressure  
to 500\* PSI. Release pressure to set float valve.

TOS Drilling

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	495	1500 <sup>00</sup>
CE0002	2.5 mi	MILEAGE	495	1787 <sup>50</sup>
CE0711	Minimum	Ten Miles Delivery		660 <sup>00</sup>
WE0653	2 hrs	80 BAL Vac Truck		200 <sup>00</sup>
		Sub Total		2538 <sup>25</sup>
		less 60%		1015 <sup>50</sup>
11295 CC5840	118 sks	Por Blend I A Cement		1593 <sup>00</sup>
CC5965	298 #	Bentonite Gel		89 <sup>00</sup>
CC5826	238 #	Salt		238 <sup>00</sup>
CC6077	590	Kol Seal		295 <sup>00</sup>
CP8176	1	2 1/2" Rubber Plug		45 <sup>00</sup>
		Sub Total		2260 <sup>40</sup>
		less 60%		904 <sup>16</sup>
		7.725%		69 <sup>85</sup>
		SALES TAX		69 <sup>85</sup>
		ESTIMATED TOTAL		1989 <sup>51</sup>
				(4973 <sup>27</sup> )

Revin 3737

AUTHORIZATION

*[Signature]*

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.