

Johnson County, KS  
Well: Evans # 5  
Lease Owner:DE Exploration

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

Commenced Spudding:  
2/8/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-30	Soil-Clay	30
13	Shale	43
22	Lime	65
7	Shale	72
10	Lime	82
5	Shale	87
19	Lime	106
18	Shale	124
5	Sand	129
25	Lime	154
32	Shale	186
12	Lime	198
23	Shale	221
8	Lime	229
6	Shale	235
11	Lime	246
19	Shale	265
6	Lime	271
6	Shale	277
6	Lime	283
33	Shale	316
1	Lime	317
9	Shale	326
26	Lime	352
8	Shale	360
23	Lime	383
3	Shale	386
3	Lime	389
5	Shale	394
5	Lime	399
33	Shale	432
5	Sand	437
132	Shale	569
5	Lime	574
4	Shale	578
4	Lime	582
9	Shale	591
7	Lime	598
13	Shale	611
4	Lime	615



# 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  $BPH \times PSI \times .0004$

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. 5

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



Thickness of Strata	Formation	Total Depth	Remarks
0-30	soil-clay	30	
13	Shale	43	
22	Lime	65	
7	Shale	72	
10	Lime	82	
5	Shale	87	
19	Lime	106	
18	Shale	124	
5	sand	129	redbed water
25	Lime	154	
32	Shale	186	
12	Lime	198	
23	Shale	221	
8	Lime	229	
6	Shale	235	
11	Lime	246	
19	Shale	265	
6	Lime	271	
6	Shale	277	
6	Lime	283	
33	Shale	316	
1	Lime	317	
9	Shale	326	
26	Lime	352	
8	Shale	360	
23	Lime	383	
3	Shale	386	

# Well #5

386

Thickness of Strata	Formation	Total Depth	Remarks
3	Lime	389	
5	Shale	394	
5	Lime	399	Heitka
33	Shale	432	
5	sand	437	grey - no oil
132	Shale	569	
5	Lime	574	
4	Shale	578	
4	Lime	582	
9	Shale	591	
7	Lime	598	
13	Shale	611	
4	Lime	615	
13	Shale	628	
2	Lime	630	
23	Shale	653	redbed
2	Lime	655	
2	Shale	657	
2	Lime	659	
66	Shale	725	
7	sand	732	broken - gas odor
4	sandy shale	736	
112	Shale	848	
perf 5	sand	853	solid - good saturation - 3" Limecap
12	sandy shale	865	
55	shale	920	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#

809584

Invoice Date: 02/14/17

Terms: Net 30

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D.E. EXPLORATION

P.O. BOX 128  
 WELLSVILLE KS 66092  
 USA  
 7858834057

evans #5

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)	114.000	13.5000	60.000	615.60
CC5965	*Bentonite*	292.000	0.3000	60.000	35.04
CC5326	Sodium Chloride, Salt	230.000	1.0000	60.000	92.00
CC6077	Kolseal	570.000	0.5000	60.000	114.00
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	60.000	18.00

Subtotal 4,725.35

Discounted Amount 2,835.21

SubTotal After Discount 1,890.14

Amount Due 4,894.26 If paid after 03/16/17

Tax: 67.56

Total: 1,957.70



**CONSOLIDATED**  
Oil Well Services, LLC

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

7539  
7433

TICKET NUMBER 50392A  
LOCATION Ottawa KS  
FOREMAN Fred Maden

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

**Invoice #809584**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-9-17	2355	Evans #5	NE 1	15	21	70
CUSTOMER DE Exploration			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 128			712 Fremad			
CITY STATE ZIP CODE Wellsville KS 66092			495 Har Box			
			675 Kai Dat			
			558 Kai Car			

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 980 CASING SIZE & WEIGHT 2 7/8 EUE  
CASING DEPTH 907 DRILL PIPE Baffle in TUBING @ 875 OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 31' 2 Plug  
DISPLACEMENT 509 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4BPM

REMARKS: Hold Safety meeting. Establish pump rate. Mix + Pump 100# Gal Flush. Mix + Pump 114 sks Poz Blend IA Cement 2% Gal 5% Salt + 5# Kai 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.

Tom Oilwell Services Drilling Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	475	1500.00
CE0002	25 ml	MILEAGE	495	12375
CE0711	Minimum		558	660.00
WE0853	2 hrs	600 BBL Vac Truck	675	200.00
		Sub Total		2538.75
		Less 60%		1015.50
CC5840	114 SKS	Poz Blend IA Cement		1539.00
CC5965	292#	Benatrite Gel		87.60
CC5326	230#	Salt		220.00
CC6077	570#	Kai Seal		285.00
CP8176	1	2 1/2" Rubber Plug		45.00
		Sub Total		2186.60
		Less 60%		874.64
		7.725%	SALES TAX	67.56
			ESTIMATED TOTAL	1957.70

Ravin 3737

AUTHORIZATION Bryan Mills TITLE \_\_\_\_\_ DATE 4894.26

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