

Johnson County, KS

Town Oilfield Service, Inc.

Commenced Spudding:

Well: Evans I-2

(913) 294-2125

2/10/17

Lease Owner:DE Exploration

## WELL LOG

Thickness of Strata	Formation	Total Depth
0-25	Soil-Clay	25
29	Shale	54
22	Lime	76
7	Shale	83
10	Lime	93
4	Shale	97
18	Lime	115
22	Shale	137
29	Lime	166
6	Shale	172
5	Sandy Shale	177
20	Shale	197
12	Lime	209
20	Shale	229
9	Lime	238
9	Shale	247
10	Lime	257
19	Shale	276
7	Lime	283
4	Shale	287
7	Lime	294
32	Shale	326
2	Lime	328
9	Shale	337
26	Lime	363
7	Shale	370
22	Lime	392
4	Shale	396
4	Lime	400
4	Shale	404
6	Lime	410
30	Shale	440
8	Sand	448
136	Shale	584
4	Lime	588
4	Shale	592
2	Lime	594
9	Shale	603
7	Lime	610
14	Shale	624



# 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.

I-2

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. I-2

Elevation 1022

Commenced Spuding 2-10 20 17

Finished Drilling 2-13 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 TOS

1 15 21

(Section) (Township) (Range)

Distance from S line, 4800 ft.

Distance from E line, 890 ft.

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

**CASING AND TUBING RECORD**

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_  
 8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_  
 7 1/2" Set 20 6 1/4" Pulled \_\_\_\_\_  
 4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_  
 2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

**CASING AND TUBING MEASUREMENTS**

Feet	In.	Feet	In.	Feet	In.
920	-	Baffle			
951.70		Floater		2	7/8
960	TD				

Thickness of Strata	Formation	Total Depth	Remarks
0-25	soil-clay	25	
29	shale	54	
22	Lime	76	
7	shale	83	
10	Lime	93	
4	shale	97	
18	Lime	115	
22	shale	137	red bed
29	Lime	166	
6	shale	172	
5	sandy shale	177	
20	shale	197	
12	Lime	209	
20	shale	229	
9	Lime	238	
9	shale	247	
10	Lime	257	
19	shale	276	
7	Lime	283	
4	shale	287	
7	Lime	294	
32	shale	326	
2	Lime	328	
9	shale	337	
26	Lime	363	
7	shale	370	
22	Lime	392	

392

Thickness of Strata	Formation	Total Depth	Remarks
4	Shale	396	
4	Lime	400	
4	Shale	404	
6	Lime	410	Hertha
30	Shale	440	
8	sand	448	grey - no oil
136	Shale	584	
4	Lime	588	
4	Shale	592	
2	Lime	594	
9	Shale	603	
7	Lime	610	
14	Shale	624	
3	Lime	627	
13	Shale	640	
2	Lime	642	
26	Shale	668	red bed
1	Lime	669	
69	Shale	738	
7	sand	745	broken - gas odor
14	Shale	859	
1	Lime sand	860	
perf 6	sand	866	mostly solid - good saturation
12	sandy shale	878	
82	Shale	960	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# 809594

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

D.E. EXPLORATION  
 P.O. BOX 128 EVANS # I-2  
 WELLSVILLE KS 66092  
 USA  
 7858834057

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)	125.000	13.5000	60.000	675.00
CC5965	*Bentonite*	310.000	0.3000	60.000	37.20
CC5326	Sodium Chloride, Salt	252.000	1.0000	60.000	100.80
CC6077	Kolseal	625.000	0.5000	60.000	125.00
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 5,003.75  
 Discounted Amount 3,002.25  
 SubTotal After Discount 2,001.50

Amount Due 5,190.31 If paid after 03/16/17

Tax: 74.62  
 Total: 2,076.12





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

7548  
7442

TICKET NUMBER 50394

LOCATION Ottawa KS

FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT  
CEMENT

Invoice # 801594

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-13-17	2355	Evans # I-2	1	15	01	JD
CUSTOMER			TRUCK #			
D E Exploration			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 128			DRIVER			
CITY			TRUCK #			
Wellsville			DRIVER			
STATE			TRUCK #			
KS			DRIVER			
ZIP CODE			TRUCK #			
66092			DRIVER			

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 960' CASING SIZE & WEIGHT 2 7/8 EUF  
 CASING DEPTH 959' DRILL PIPE Battler TUBING @ 920' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 31' + Plug  
 DISPLACEMENT 5.25 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 48 PM

REMARKS: Hold Safety meeting. Establish pump rate. Pump 1/2 Gal Mud Flush "C" + Circulate to condition hole. Mix + Pump 100# Gel Flush. Mix + Pump 2 sks Por Blend I-A Cement 2 7/8 Gal 5% Salt 5# Kol Seal/sk. Cement to surface. Flush pump + lines clean. Displace 2 7/8" Rubber plug to Battler in casing. Pressure to 800# PSI. Release pressure to set float valve.

TOS Drilling - Wesley

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	467	1500.00
CE0002	25 mi	MILEAGE	467	17625.00
CE0711	Minimum	Ton Miles Delivery	558	1060.00
WE0853	2 1/2 hrs	80 BBL Vac Truck	675	2500.00
		Sub Total		25887.50
		Less 60%		10355.00
11350 CE5540	125 sks	Por Blend I A Cement		16875.00
CE5965	310 #	Bentonite Gel		93.00
CE5324	252 #	Salt		252.00
CE6077	625 #	Kol Seal		312.50
CE6128	1/2 Gal	Mud Flush "C"		25.00
CP8174	1	2 1/2" Rubber Plug		45.00
		Sub Total		2415.00
		Less 60%		966.00
		7.725%	SALES TAX	74.63
			ESTIMATED TOTAL	2076.12

Ravin 3737

AUTHORIZATION

Bryan Mills

TITLE

DATE

(5190.31)

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.