

Johnson County, KS
 Well: Evans # 1
 Lease Owner: DE Exploration

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

Commenced Spudding:
 2/6/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-30	Soil-Clay	30
22	Shale	52
25	Lime	77
7	Shale	84
10	Lime	94
4	Shale	98
19	Lime	117
24	Shale	141
25	Lime	166
6	Shale	172
4	Sandy Shale	176
19	Shale	195
12	Lime	207
20	Shale	227
9	Lime	236
9	Shale	245
11	Lime	256
19	Shale	275
7	Lime	282
5	Shale	287
7	Lime	294
32	Shale	326
2	Lime	328
9	Shale	337
25	Lime	362
9	Shale	371
20	Lime	391
4	Shale	395
3	Lime	398
4	Shale	402
7	Lime	409
31	Shale	440
6	Sand	446
136	Shale	582
4	Lime	586
4	Shale	590
4	Lime	594
8	Shale	602
6	Lime	608
14	Shale	622

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. 1

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. 1
 Elevation 1021
 Commenced Spuding 2-6 20 17
 Finished Drilling 2-7 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, 5020 ft.
 Distance from E line, 1120 ft.

3 sacks
 10 his
 5 7/8 borehole
 2 7/8 casing

**CASING AND TUBING
 RECORD**

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

CASING AND TUBING MEASUREMENTS

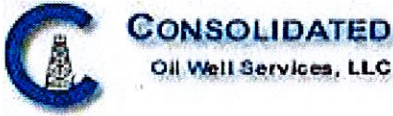
Feet	In.	Feet	In.	Feet	In.
857.55		scat nipple			
889.50		Baffle			
921.60		Float	2 7/8		
940	TD				

Thickness of Strata	Formation	Total Depth	Remarks
0-30	soil-clay	30	
22	Shale	52	
25	Lime	77	
7	shale	84	
10	Lime	94	
4	shale	98	
19	Lime	117	
24	shale	141	redbed
25	Lime	166	
6	shale	172	
4	sandy shale	176	
19	shale	195	
12	Lime	207	
20	shale	227	
9	Lime	236	
9	shale	245	
11	Lime	256	
19	shale	275	
7	Lime	282	
5	shale	287	
7	Lime	294	
32	shale	326	
2	Lime	328	
9	shale	337	
25	Lime	362	
9	shale	371	
20	Lime	391	

Well #1

391

Thickness of Strata	Formation	Total Depth	Remarks
4	Shale	395	
3	Lime	398	
4	Shale	402	
7	Lime	409	Hertha
31	Shale	440	
6	sand	446	grey - no Oil
136	shale	582	
4	Lime	586	
4	Shale	590	
4	Lime	594	
8	Shale	602	
6	Lime	608	
14	Shale	622	
3	Lime	625	
14	Shale	639	
2	Lime	641	
23	Shale	664	redbed
1	Lime	665	
3	Shale	668	
1	Lime	669	
68	Shale	737	
10	sand	747	gas odor - broken
113	Shale	860	
1	sandy lime	861	no oil
perf 6	sand	867	broken - good saturation
21	sandy shale	888	
52	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# 809541

Invoice Date: 02/09/17

Terms: Net 30

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D.E. EXPLORATION

P.O. BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

EVANS #1

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
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	60.000	18.00
CC5840	Poz-Blend I A (50:50)	115.000	13.5000	60.000	621.00
CC5965	*Bentonite*	293.000	0.3000	60.000	35.16
CC5326	Sodium Chloride, Salt	232.000	1.0000	60.000	92.80
CC6077	Kolseal	575.000	0.5000	60.000	115.00

Subtotal 4,743.65

Discounted Amount 2,846.19

SubTotal After Discount 1,897.46

Amount Due 4,913.98 If paid after 03/11/17

Tax: 68.13

Total: 1,965.59



CONSOLIDATED
Oil Well Services, LLC

7484 / 7380

TICKET NUMBER 50388

LOCATION Oshtawa, KS

FOREMAN Fred Maden

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

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 809541

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-7-17	2355	Eraus #1	NE 1	15	21	JO
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 940 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 921 DRILL PIPE Baffle in TUBING @ 8P9 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 32' + Plug
 DISPLACEMENT 5.16 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPPM

REMARKS: Hold Safety Meeting. Establish pump rate. Mix + Pump 100%
 Gel Flush. Mix + Pump 115 sks Per Blend I A Cement 270 bbl
 5% Salt 5# Kal Seal/sk. Cement to surface. Flush pump +
 lines clean. Displace 2 1/2" Rubber plug to ~~from~~ Baffle in
 casing. Pressure to 800* 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	1500.00
CE0002	25 mi.	MILEAGE	495	12375.00
CE0711	Minimum	Ten Miles Delivery	546	660.00
WE0953	2 hrs	80 BBL Vac Truck	675	2000.00
		Sub Total		25335.00
		less 60%		10155.00
SP8176	1	2 7/8 plug		4500.00
CC5840	115 sks	Per Blend I A Cement		15525.00
CC5965	283 #	Bentonite Gel		8720.00
CC5326	232 #	Salt		232.00
CC6077	575 #	Kal Seal		2975.00
		Sub Total		22047.00
		less 60%		8819.00
		7.726%	SALES TAX	6213.00
			ESTIMATED TOTAL	1965.00

Ravin 3737

AUTHORIZATION Byron Mills TITLE _____ DATE (493.98)

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.