

Johnson County, KS
 Well: Evans # 8
 Lease Owner: DE Exploration

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

Commenced Spudding:
 2/1/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-35	Soil-Clay	35
8	Shale	43
21	Lime	64
6	Shale	70
9	Lime	79
6	Sandy Shale	85
18	Lime	103
17	Shale	120
8	Sand	128
25	Lime	153
5	Shale	158
9	Sandy Shale	167
16	Shale	183
11	Lime	194
22	Shale	216
10	Lime	226
7	Shale	233
11	Lime	244
18	Shale	262
6	Lime	268
6	Shale	274
5	Lime	279
33	Shale	312
1	Lime	313
10	Shale	323
25	Lime	348
7	Shale	355
23	Lime	378
5	Shale	383
4	Lime	387
3	Shale	390
6	Lime	396
27	Shale	423
5	Sand & Sandy Shale	428
139	Shale	567
5	Lime	572
3	Shale	575
2	Lime	577
10	Shale	587
6	Lime	593

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. 8

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
0-35	Soil - clay	35	
8	Shale	43	
21	Lime	64	
6	Shale	70	
9	Lime	79	
6	sandy shale	85	
18	Lime	103	
17	Shale	120	
8	sand	128	red bed water
25	Lime	153	
5	Shale	158	
9	sandy shale	167	
16	Shale	183	
11	Lime	194	
22	Shale	216	
10	Lime	226	
7	Shale	233	
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355

Thickness of Strata	Formation	Total Depth	Remarks
23	Lime	378	
5	Shale	383	
4	Lime	387	
3	Shale	390	
6	Lime	396	Heitha
27	Shale	423	
5	sand & sandy shale	428	no oil
139	shale	567	
5	Lime	572	
3	Shale	575	
2	Lime	577	
10	Shale	587	
6	Lime	593	
16	Shale	609	
3	Lime	612	
14	Shale	626	
3	Lime	629	
24	Shale	653	redbed
1	Lime	654	
70	Shale	724	
6	sand & sandy shale	730	no oil
116	Shale	846	
perf-7	sand	853	broken - mostly solid - good saturation
14	Sandy shale	867	
53	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#

809507

Invoice Date: 02/07/17

Terms: Net 30

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D.E. EXPLORATION

P.O. BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

EVANS #8

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)	110.000	13.5000	60.000	594.00
CC5965	*Bentonite*	285.000	0.3000	60.000	34.20
CC5326	Sodium Chloride, Salt	222.000	1.0000	60.000	88.80
CC6077	Kolseal	550.000	0.5000	60.000	110.00
CP8176	2 7/8" Top Rubber Plug	1.000	45.0000	60.000	18.00

Subtotal 4,651.25

Discounted Amount 2,790.75

SubTotal After Discount 1,860.50

Amount Due 4,814.44 If paid after 03/09/17

Tax: 65.28

Total: 1,925.78



CONSOLIDATED
Oil Well Services, LLC

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

7459
733

TICKET NUMBER 50383

LOCATION Ottawa KS

FOREMAN Fred Mader

**FIELD TICKET & TREATMENT REPORT
CEMENT**

Invoice #809507

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-2-17	2355	Evans # 8	NE 1	15	21	JO
CUSTOMER D E Exploration						
MAILING ADDRESS P.O. Box 128						
CITY Wellsville		STATE KS	ZIP CODE 66092			
TRUCK #		DRIVER		TRUCK #		DRIVER
712		FreMad				
467		Kai Car				
675		Kai Dal				
548		Ar1Mad				

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 920 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 905' DRILL PIPE Baffle TUBING @ 873 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 5075 Bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Hold safety meeting. Establish pump rate. Mix + Pump 100'
Gel Flush. Mix + Pump 110 SKS Por Blend IA Cement 2%
Gel 5% Salt 5' Hal 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.

TOS Drilling.

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	17825.00
CE0711	Minimum		548	660.00
WE0853	2 hrs	80 BBL Vac Truck	675	200.00
		Sub Total		25387.50
		Less 60%		10155.00
CC5840	110 SKS	Por Blend IA Cement		1485.00
CC6965	285 #	Bentonite Gel		85.00
CC5326	222 #	Salt		222.00
CC6077	550 #	Hal Seal		275.00
CP8176	1	2 1/2" Rubber Plug		45.00
		Sub Total		2112.00
		Less 60%		645.00
		7.726%	SALES TAX	65.25
		ESTIMATED TOTAL		1925.75

Ravin 3737

AUTHORIZATION

Byron Mills

TITLE

DATE

(4814 44)

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.