

Johnson County, KS
Well: Evans I-6
Lease Owner:DE Exploration

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

Commenced Spudding:
2/13/17

WELL LOG

Thickness of Strata	Formation	Total Depth
0-27	Soil-Clay	27
21	Shale	48
21	Lime	69
7	Shale	76
9	Lime	85
5	Shale	90
19	Lime	109
23	Shale	132
26	Lime	158
29	Shale	187
12	Lime	199
22	Shale	221
9	Lime	230
8	Shale	238
10	Lime	248
18	Shale	266
8	Lime	274
5	Shale	279
6	Lime	285
32	Shale	317
1	Lime	318
10	Shale	328
26	Lime	354
6	Shale	360
23	Lime	383
4	Shale	387
3	Lime	390
5	Shale	395
6	Lime	401
26	Shale	427
10	Lime	437
135	Shale	572
4	Lime	576
4	Shale	580
2	Lime	582
9	Shale	591
6	Lime	597
16	Shale	613
3	Lime	616
13	Shale	629

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-6

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
0-27	soil - clay	27	
21	shale	48	
21	Lime	69	
7	shale	76	
9	Lime	85	
5	shale	90	
19	Lime	109	
23	shale	132	redbed
26	Lime	158	
29	shale	187	
12	Lime	199	
22	shale	221	
9	Lime	230	
8	shale	238	
10	Lime	248	
18	shale	266	
8	Lime	274	
5	shale	279	
6	Lime	285	
32	shale	317	
1	Lime	318	
10	shale	328	
26	Lime	354	
6	shale	360	
23	Lime	383	
4	shale	387	
3	Lime	390	

390

Thickness of Strata	Formation	Total Depth	Remarks
5	Shale	395	
6	Lime	401	Heithg
26	Shale	427	
10	sand	437	no Oil
135	shale	572	
4	Lime	576	
4	shale	580	
2	Lime	582	
9	shale	591	
6	Lime	597	
16	shale	613	
3	Lime	616	
13	shale	629	
3	Lime	632	
24	shale	656	redbed
2	Lime	658	
69	shale	727	
6	sand	733	gas odor - broken
114	shale	847	
1	sandy Lime	848	no Oil
perf 6	sand	854	broken - good saturation
14	sandy shale	868	
72	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# 809608

Invoice Date: 02/15/17 Terms: Net 30 Page 1

D.E. EXPLORATION

P.O. BOX 128
 WELLSVILLE KS 66092
 USA
 7858834057

EVANS #-6

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)	116.000	13.5000	60.000	626.40
CC5965	*Bentonite*	295.000	0.3000	60.000	35.40
CC5326	Sodium Chloride, Salt	234.000	1.0000	60.000	93.60
CC6077	Kolseal	580.000	0.5000	60.000	116.00
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 4,837.25
 Discounted Amount 2,902.35
 SubTotal After Discount 1,934.90

Amount Due 5,010.95 If paid after 03/17/17

Tax: 69.48
 Total: 2,004.38



CONSOLIDATED
Oil Well Services, LLC

7556
7455

TICKET NUMBER 50396
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 #809608

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2.14.17	2355	Evans # I.6	NE 1	15	21	JO
CUSTOMER			TRUCK #			
D E Exploration			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 128			DRIVER			
CITY		STATE	ZIP CODE			
Wellsville		KS	66092			

JOB TYPE Logging HOLE SIZE 5 7/8 HOLE DEPTH 940 CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 916 DRILL PIPE Baffle in TUBING @ 887 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 31' 2 Plug
 DISPLACEMENT 5.15 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.6 PPM

REMARKS: Hold Safety Meeting. Establish pump rate. Pump 1/2 Gal Mud
 Flush "C". Circulate to condition hole. Mix + Pump 100#
 Cool Flush. Mix + Pump 116 sks Poz Blend I A Cement 2 7/8 Gal
 5% salt 5# Kal 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

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	178.75
CE0711	Minimum	Ten Miles Delivery	558	660.00
WE0853	2 1/2 hrs	80 BBL Vac Truck	369	250.00
		Sub Total		2588.75
		Less 60%		1035.50
CC5840	116 sks	Poz Blend I A Cement		1566.00
CC5965	295#	Bentonite Gel		88.50
CC5326	234#	Salt		224.00
CC6077	580#	Kal Seal		290.00
CC6128	1/2 Gal	Mud Flush C		25.00
EP8176	1	2 1/2" Rubber Plug		45.00
		Sub Total		2248.50
		Less 60%		899.40
		7.725%	SALES TAX	69.48
			ESTIMATED TOTAL	2004.30

11382

Ravin 3737

AUTHORIZATION Bryan Miller TITLE _____ DATE (5010 95)

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.