

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

Town Oilfield Service, Inc.
 (913) 837-8400

Commenced Spudding:
 3/10/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
25	Soil-Clay	25
15	Shale	40
25	Lime	65
7	Shale	72
9	Lime	81
5	Shale	86
20	Lime	106
11	Shale	117
11	Sand	128
5	Sandy Shale	133
24	Lime	157
43	Shale	200
9	Lime	209
19	Shale	228
5	Lime	233
4	Shale	237
11	Lime	248
19	Shale	267
7	Lime	274
10	Shale	284
3	Lime	287
33	Shale	320
1	Lime	321
11	Shale	332
24	Lime	356
7	Shale	363
24	Lime	387
4	Shale	391
4	Lime	395
3	Shale	398
6	Lime	404
5	Shale	409
29	Sandy Shale	438
10	Shale	448
4	Sandy Shale	452
124	Shale	576
5	Lime	581
4	Shale	585
2	Lime	587
9	Shale	596

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 Schweeden

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
25	oil clay	25	
15	shale	40	
25	Lime	65	
7	shale	72	with some shale seams
9	Lime	81	
5	shale	86	
20	Lime	106	
11	shale	117	
11	sand	128	
5	sandy shale	133	gray, no oil
24	Lime	157	
43	shale	200	
9	Lime	209	
19	shale	228	
5	Lime	233	
4	shale	237	
11	Lime	248	
19	shale	267	
7	Lime	274	
10	shale	284	
3	Lime	287	
33	shale	320	
1	Lime	321	
11	shale	332	
24	Lime	356	
7	shale	363	
24	Lime	387	

Thickness of Strata	Formation	Total Depth	Remarks
		387	
4	shale	391	
4	lime	395	
3	shale	398	
6	lime	404	
5	shale	409	harder
29	sandy shale	438	
10	sand	448	
4	sandy shale	452	
124	shale	576	
5	lime	581	
4	shale	585	
2	lime	587	
9	shale	596	
8	lime	604	
15	shale	619	
3	lime	622	
10	shale	632	
5	lime	637	
24	shale	661	
2	lime	663	
67	shale	730	
9	sand	739	little oil, no oil, brown sand
4	sandy shale	743	
112	shale	855	
2	sandy lime	857	oil, 50% - 60% oil bleeding
5	sand	862	75% oil, good bleeding
1	sand	863	40% - solid oil



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 266630

Invoice Date: 03/19/2014 Terms: 0/30/10,n/30

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D.E. EXPLORATION
DOUG EVANS
P.O. BOX 128
WELLSVILLE KS 66092
(785) 883-4057

SCHROEDER #8
42714
SW 6-15-22
03-12-2014
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	122.00	11.5000	1403.00
1118B	PREMIUM GEL / BENTONITE	305.00	.2200	67.10
1111	SODIUM CHLORIDE (GRANULA	236.00	.3900	92.04
1110A	KOL SEAL (50# BAG)	610.00	.4600	280.60
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-552.82

	Description	Hours	Unit Price	Total
369	80 BBL VACUUM TRUCK (CEMENT)	2.00	100.00	200.00
495	CEMENT PUMP	1.00	1085.00	1085.00
495	EQUIPMENT MILEAGE (ONE WAY)	30.00	4.20	126.00
495	CASING FOOTAGE	920.00	.00	.00
503	MIN. BULK DELIVERY	1.00	368.00	368.00

Amount Due 3789.32 if paid after 03/29/2014

Parts:	1872.24	Freight:	.00	Tax:	97.31	AR	3195.73
Labor:	.00	Misc:	.00	Total:	3195.73		
Sublt:	-552.82	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK
918/338-0808

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7664

PONCA CITY, OK
580/762-2303

OAKLEY, KS
785/672-8822

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

GILLETTE, WY
307/686-4914

CUSHING, OK
918/225-2650



CONSOLIDATED
Oil Well Services, LLC

240630

TICKET NUMBER 42714

LOCATION Ottawa KS

FOREMAN Fred Mader

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-12-14	2355	Schroeder # 8	SW 6	15	22	JO
CUSTOMER						
D E Exploration Inc						
MAILING ADDRESS						
P.O. Box 128						
CITY						
Wellsville		STATE	ZIP CODE			
		KS	66092			
TRUCK #						
712		DRIVER		TRUCK #		DRIVER
		Fred Mad				
495		Har Ber				
369		Der Mas				
503		Ki Car				

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 940' CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 9200 DRILL PIPE Baffle in TUBING @ 888 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING .32' + Plug
 DISPLACEMENT 5.16 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 53 BPM

REMARKS: Hold crew safety meeting. Establish pump rate. Mix + Pump 100# Gel
Flush. Mix + Pump 122 SKS 50/50 Por Mix Cement 2% Gel 5% Salt. 5#
Kol 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.

TO S Drilling. Chad.

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1085 ⁰⁰
5406	30mi	MILEAGE	495	126 ⁰⁰
5402	920'	Casing footage		N/C
5407	Minimum	Ten Miles	503	368 ⁰⁰
5502C	2 hrs	80 BBL Vac Truck	369	200 ⁰⁰
1124	122 SKS	50/50 Por Mix Cement	1403 ⁰⁰	
1118B	305 #	Premium Gel	67 ¹⁰	
1111	236 #	Granulated Salt	92 ⁰⁴	
1110A	610 #	Kol Seal	280 ⁶⁰	
		Total Material	1842 ⁷⁴	
		- less 30%	- 552 ⁸²	
		Total		1289 ⁹²
4402	1	2 1/2" Rubber Plug		29 ⁵⁰
		3651.24 - 552.82 =		3098.42
		7.375		
		SALES TAX		97 ³¹
		ESTIMATED TOTAL		3195 ⁷³

Flavin 3737

AUTHORIZATION Bryan Mills

TITLE **completed**

DATE _____

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.