

Johnson County, KS  
 Well:Schroeder I-14  
 Lease Owner:DE Exploration

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

Commenced Spudding:  
 3/13/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0-24	Soil-Clay	24
5	Lime	29
6	Sand	35
17	Lime	52
7	Shale	59
8	Lime	67
5	Shale	72
23	Lime	95
15	Shale	110
5	Sand	115
5	Sandy Shale	120
24	Lime	144
42	Shale	186
9	Lime	195
19	Shale	214
6	Lime	220
4	Shale	224
10	Lime	234
16	Shale	250
5	Shale	255
6	Lime	261
9	Shale	270
3	Lime	273
34	Shale	307
2	Lime	309
9	Shale	318
24	Lime	342
7	Shale	349
24	Lime	373
4	Shale	377
4	Lime	381
3	Shale	384
6	Lime	390
32	Shale	422
15	Sand	437
88	Shale	525
6	Shale	531
16	Shale	547
8	Sand	555
7	Shale	562



# 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-14

Farm Schroeder

KS Johnson  
(State) (County)

1 15 21  
(Section) (Township) (Range)

For D.E. Exploration Inc  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East  
Louisburg, KS 66053  
913-710-5400

Schroeder Farm: Johnson County

KS State; Well No. I-14

Elevation 1013

Commenced Spuding March 13, 2014

Finished Drilling March 14, 2014

Driller's Name Wesley Dollard

Driller's Name Jeff Towle

Driller's Name Chad Weaver

Tool Dresser's Name Greg Parry

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

1 15 21

(Section) (Township) (Range)

Distance from S line, 430 ft.

Distance from E line, 3160 ft.

3 sacks

8 hrs

### CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_

8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_

7 3/4" Set 22 6 3/4" Pulled \_\_\_\_\_

4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_

2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

### CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
840.	60	Bell	12		
927.	35	FLcat			
					27/8

Thickness of Strata	Formation	Total Depth	Remarks
0-24	soil - clay	24	
5	Lime	29	
6	sand	35	no oil
17	Lime	52	
7	shale	59	
8	Lime	67	
5	shale	72	
23	Lime	95	
15	shale	110	
5	sand	115	no oil
5	sandy shale	120	
24	Lime	144	
42	shale	186	
9	Lime	195	
19	shale	214	
6	Lime	220	
4	shale	224	
10	Lime	234	
16	shale	250	
5	green shale & Lime	255	
6	Lime	261	
9	shale	270	
3	Lime	273	
34	shale	307	
2	Lime	309	
9	shale	318	
24	Lime	342	

342

Thickness of Strata	Formation	Total Depth	Remarks
7	shale	349	
24	Lime	373	
4	shale	377	
4	Lime	381	
3	shale	384	
6	Lime	390	
32	shale	422	Hertha
15	sand	437	
88	shale	525	no Oil
6	shale & Lime	531	
16	shale	547	
8	sand	555	no Oil
7	shale	562	
4	Lime	566	
17	shale	583	
8	Lime	591	
16	sandy shale	607	
3	Lime	610	
10	shale	620	
5	Lime	625	
20	shale	645	
3	Lime	648	
2	shale	650	
3	Lime	653	
64	shale	717	
23	sand	740	
30	shale	770	gas





**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 # 266631

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 I-14  
42692  
SW 1-15-21  
03-14-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	132.00	11.5000	1518.00
1118B	PREMIUM GEL / BENTONITE	422.00	.2200	92.84
1111	SODIUM CHLORIDE (GRANULA	277.00	.3900	108.03
1110A	KOL SEAL (50# BAG)	660.00	.4600	303.60
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50
1401	HE 100 POLYMER	.50	47.2500	23.63

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-606.74

Description	Hours	Unit Price	Total
558 MIN. BULK DELIVERY	1.00	368.00	368.00
666 CEMENT PUMP	1.00	1085.00	1085.00
666 EQUIPMENT MILEAGE (ONE WAY)	30.00	4.20	126.00
666 CASING FOOTAGE	922.00	.00	.00
675 80 BBL VACUUM TRUCK (CEMENT)	3.00	100.00	300.00

Amount Due 4107.68 if paid after 03/29/2014

Parts:	2075.60	Freight:	.00	Tax:	108.33	AR	3456.19
Labor:	.00	Misc:	.00	Total:	3456.19		
Sublt:	-606.74	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

266631

TICKET NUMBER 42692

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

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
3/14/14	2355	Schroeder # I-14	S0W1	15	21	JO

CUSTOMER <u>DE Exploration</u>		
MAILING ADDRESS <u>PO Box 128</u>		
CITY <u>Wellsville</u>	STATE <u>KS</u>	ZIP CODE <u>66092</u>

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Gas Ken	✓ Safety Meeting	
6666	Gar Moo	✓	
558	Mat Coc	✓	
675	Jas Ric	✓	

JOB TYPE <u>long string</u>	HOLE SIZE <u>5 5/8"</u>	HOLE DEPTH <u>940'</u>	CASING SIZE & WEIGHT <u>2 7/8" EUE</u>
CASING DEPTH <u>922'</u>	DRILL PIPE	TUBING <u>baffle - 892'</u>	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>30'</u>
DISPLACEMENT <u>5.10 bbls</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>5 bpm</u>

REMARKS: held safety meeting, established circulation, mixed & pumped 1/2 gal Polymer, circulated for 1 hr to condition hole, mixed & pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 132 sks 50/50 Pozmix cement w/ 2% gel, 5% salt, & 5 # Kolsaal per sk, cement to surface, pushed pump down, pumped 2 1/2" rubber plug to baffle with 5.10 bbls fresh water, pressured to 800 PSI, released pressure, shot in casing.

*[Handwritten signature]*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00 ✓
5406	30 mi	MILEAGE		126.00 ✓
5402	922'	casing footage		
5407	minimum	ten mileage		368.00 ✓
5500C	3 hrs	80 Vac		300.00 ✓
1124	132 sks	50/50 Pozmix cement	1518.00	✓
1118B	422 #	Premium Gel	92.84	✓
1111	277 #	Salt	108.03	✓
1110A	660 #	Kolsaal	303.60	✓
		materials subtotal	2622.47	
		- 30%	-606.74	✓
		sub total		1415.73
4402	1	2 1/2" rubber plug		29.50 ✓
1401	1/2 gal	Polymer		23.63 ✓
		3954.60 - 606.74 =		3347.86
		7.375%		108.33 ✓
		SALES TAX		108.33 ✓
		ESTIMATED TOTAL		3456.19 ✓

Havin 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.