

Johnson County, KS  
Well: White I-3  
Lease Owner: DE

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

Commenced Spudding:  
2/18/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
21	Soil-Clay	21
22	Shale	43
22	Lime	65
7	Shale	72
9	Lime	81
4	Shale	85
20	Lime	105
12	Shale	117
12	Sand	129
4	Sandy Shale	133
23	Lime	156
43	Shale	199
10	Lime	209
17	Shale	226
5	Lime	231
4	Shale	235
11	Lime	246
19	Shale	265
7	Lime	272
11	Shale	283
3	Lime	286
33	Shale	319
1	Lime	320
10	Shale	330
25	Lime	355
7	Shale	362
24	Lime	386
3	Shale	389
5	Lime	394
3	Shale	397
6	Lime	403
5	Shale	408
19	Sandy Shale	427
19	Sand	446
6	Sandy Shale	452
123	Shale	575
3	Lime	578
5	Shale	583
2	Lime	585
9	Shale	594



# 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. # 1-3

Farm White

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
21	soil/clay	21	
22	shale	43	
22	Lime	65	
7	shale	72	
9	Lime	81	
4	shale	85	
20	Lime	105	
12	shale	117	red bed
12	sand	129	no oil
4	sandy shale	133	
23	Lime	156	
43	shale	199	
10	Lime	209	
17	shale	226	
5	Lime	231	
4	shale	235	
11	Lime	246	
19	shale	265	
7	Lime	272	
11	shale	283	
3	Lime	286	
33	shale	319	
1	Lime	320	
10	shale	330	
25	Lime	355	
7	shale	362	
24	Lime	386	

386

Thickness of Strata	Formation	Total Depth	Remarks
3	shale	389	
5	lime	394	
3	shale	397	
6	lime	403	Harder
5	shale	408	
19	sandy shale	427	with some shale seams
19	sand	446	with some sandy shale
6	sandy shale	452	
123	shale	575	
3	lime	578	
5	shale	583	
2	lime	585	
9	shale	594	
9	lime	603	
14	shale	617	
2	lime	619	
14	shale	633	
5	limestone	638	
23	shale	661	
7	lime & shale	668	
61	shale	729	
9	sand	738	Brown sand, no oil
12	sandy shale	750	<del>Red sand</del>
110	shale	860	
2	sandy lime	862	odor, 60% - 70%, sand bleeds
1	sand	863	50% oil
1	sand	864	60% - 70% 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 # 266071

Invoice Date: 02/21/2014 Terms: 0/0/30,n/30

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

WHITE I-3  
42644  
SW 1-15-21  
02-19-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	133.00	11.5000	1529.50
1118B	PREMIUM GEL / BENTONITE	423.00	.2200	93.06
1111	SODIUM CHLORIDE (GRANULA	279.00	.3900	108.81
1110A	KOL SEAL (50# BAG)	665.00	.4600	305.90
1401	HE 100 POLYMER	.50	47.2500	23.63
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

Description	Hours	Unit Price	Total
370 80 BBL VACUUM TRUCK (CEMENT)	2.50	90.00	225.00
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	921.00	.00	.00

Parts: 2090.40 Freight: .00 Tax: 154.16 AR 4048.56  
 Labor: .00 Misc: .00 Total: 4048.56  
 Sublt: .00 Supplies: .00 Change: .00

Signed \_\_\_\_\_ Date \_\_\_\_\_





**CONSOLIDATED**  
Oil Well Services, LLC

266071

TICKET NUMBER 42644

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
2/19/14	2355	White # I-3	SW1	15	21	JO
CUSTOMER			TRUCK#			
DE Exploration			729	Driver	TRUCK#	DRIVER
MAILING ADDRESS			6666	Gar Moo	✓	Safety Meeting
PO Box 128			558	KeiCar	✓	
CITY	STATE	ZIP CODE	370	Jas Ric	✓	
Wellsville	KS	66092				
JOB TYPE	HOLE SIZE	HOLE DEPTH	CASING SIZE & WEIGHT			
long string	5 5/8"	940'	2 7/8" EUE			
CASING DEPTH	DRILL PIPE	TUBING	OTHER			
921'		baffle - 890'				
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING			
			31'			
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE			
5.15 bbls			5 bpm			

REMARKS: held safety meeting, established circulation, mixed + pumped 1/2 gal Polymer, circulated well for 1 hr to condition hole, mixed + pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed + pumped 133 sks 50/50 Pozmix cement w/ 2% gel, 5% salt, + 5 # Kolseal per sk, cement to surface, pushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 5.15 bbls fresh water, pressured to 800 PSI, released pressure, shut 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	921'	casing footage		— ✓
5407	minimum	ton mileage		368.00 ✓
5502 c	2.5 hrs	80 Vac		225.00 ✓
1124	133 sks	50/50 Pozmix cement		15.29.50 ✓
1118B	423 #	Premium Gel		93.06 ✓
11U	279 #	Salt		168.81 ✓
1110A	665 #	Kolseal		305.90 ✓
1401	1/2 gal	Polymer		23.63 ✓
1402	1	2 1/2" rubber plug		29.50 ✓
			7.375%	SALES TAX
				ESTIMATED TOTAL
				154.16 ✓
				4048.56 ✓

completed

AUTHORIZATION Bryan Miller

TITLE \_\_\_\_\_ 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.