

Johnson County, KS  
 Well: White #5  
 Lease Owner: D\_Explo

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

Commenced Spudding:  
 02/13/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
8	soil/clay	8
17	shale	25
5	lime	30
5	shale	35
15	lime	50
8	shale	58
8	lime	66
5	shale	71
20	lime	91
11	shale	102
13	sand	115
3	sandy shale	118
25	lime	143
44	shale	187
9	lime	196
17	shale	213
6	lime	219
5	shale	224
10	lime	234
19	shale	253
7	lime	260
9	shale	269
3	lime	272
33	shale	305
1	lime	306
10	shale	316
24	lime	340
110	shale	Aug-50
2	broken sandy lime	852
3	sand	855
3	san	858
1	sand	859
1	broken sand	860
2	broken sand	862
9	sand	871
3	sandy shale	874
86	shale	960-TD

# 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 x PSI x .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. 75

Farm White

KS Johnson  
(State) (County)

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

For D.F. Exploration  
(Well Owner)

## Town Oilfield Services, Inc.

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



Thickness of Strata	Formation	Total Depth	Remarks
8	soil/clay	8	
17	shale	25	
5	Lime	30	
5	shale	35	
15	Lime	50	
8	shale	58	
8	Lime	66	
5	shale	71	
20	Lime	91	
11	shale	102	red bed
13	sand	115	no oil
3	sandy shale	118	
25	Lime	143	
44	shale	187	
9	Lime	196	
17	shale	213	
6	Lime	219	
5	shale	224	
10	Lime	234	
19	shale	253	
7	Lime	260	
9	shale	269	
3	Lime	272	
33	shale	305	
1	Lime	306	
10	shale	316	
24	Lime	340	

340			
Thickness of Strata	Formation	Total Depth	Remarks
7	shale	347	
24	Lime	371	
4	shale	375	
5	Lime	380	
3	shale	383	
5	Lime	388	
5	shale	393	Harder
14	sandy shale	407	
6	shale	413	
17	sand	430	(Gas - 30 psi in 5 min & 20 min) grey sand with some sand & shale, water,
5	sandy shale	435	
123	shale	558	
5	Lime	563	
4	shale	567	
2	Lime	569	
9	shale	578	
10	Lime	588	
12	shale	600	
2	Lime	602	
15	shale	617	
4	Lime	621	
22	shale	643	
7	Lime & shale	650	
68	shale	718	
10	sand	728	no oil, Brown sand (5-min Gas)
3	sand & sandy shale	731	
9	sandy shale	740	

740

Thickness of Strata	Formation	Total Depth	Remarks
110	shale	850	with some lime seams
2	Broken sandy lime	852	5% - odor oil
3	sand	855	60% - 70% oil
3	sand	858	80% - solid, good bleeding
1	sand	859	50% oil
1	Broken sand	860	10% - 20% oil
2	Broken sand	862	2% oil
9	sand	871	no oil, grey sand
3	sandy shale	874	
86	shale	960	TD



**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 # 266008

Invoice Date: 02/18/2014 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 #5  
42641  
SW 1-15-21  
02-17-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	143.00	11.5000	1644.50
1118B	PREMIUM GEL / BENTONITE	440.00	.2200	96.80
1111	SODIUM CHLORIDE (GRANULA	300.00	.3900	117.00
1110A	KOL SEAL (50# BAG)	715.00	.4600	328.90
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

  

Description	Hours	Unit Price	Total
369 80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00
370 80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00
510 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	932.00	.00	.00

Parts: 2216.70 Freight: .00 Tax: 163.49 AR 4319.19  
 Labor: .00 Misc: .00 Total: 4319.19  
 Sublt: .00 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

266008

TICKET NUMBER 42641

LOCATION Attawa, 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
2/17/14	2355	White # 5	SW1	15	21	JO
CUSTOMER DE Exploration			TRUCK #			
MAILING ADDRESS PO Box 128			DRIVER		TRUCK #	
CITY Wellsville			DRIVER		TRUCK #	
STATE KS			DRIVER		TRUCK #	
ZIP CODE 66092			DRIVER		TRUCK #	
			DRIVER		TRUCK #	

JOB TYPE Logging HOLE SIZE 6 3/4" HOLE DEPTH 960' CASING SIZE & WEIGHT 4 1/2"  
 CASING DEPTH 932' DRILL PIPE \_\_\_\_\_ TUBING baffle - 903' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 14.40 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200 # Premium Gel, mixed & pumped 8 bbl dye marker, mixed & pumped 143 slcs 50/50 Pozmix cement w/ 2% gel, 5% salt & 5 # Kolseal per slc, dye marker to surface, flushed pump clean, pumped 4 1/2" rubber plug to baffle w/ 14.40 bbls fresh water, pressured to 800 PSI, released pressure, washed up equipment. cement to surface \*

*[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	932'	Casing footage		_____ ✓	
5407	minimum	Ton mileage		368.00 ✓	
5502C	2 hrs	80 Vac		180.00 ✓	
5502C	2 hrs	80 Vac		180.00 ✓	
1124	143 slcs	50/50 Pozmix cement		1644.50 ✓	
1118B	440 #	Premium Gel		96.80 ✓	
1111	300 #	Salt		117.00 ✓	
1110A	715 #	Kolseal		328.90 ✓	
4402	1	2 1/2" rubber plug		29.50 ✓	
				7.375% SALES TAX	163.49 ✓
				ESTIMATED TOTAL	4319.19 ✓

**completed**

RAVIN 3737 AUTHORIZATION Bryan [Signature] 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.