

# Log Book

Well No. 38 451

Farm Devlin *Typed*

Ill Lafayette  
(State) (County)

3 315 21E  
(Section) (Township) (Range)

For HCO  
(Well Owner)

**Kenneth R.  
Johnson, Inc.**

Oil-Gas-Water-Industrial Supplies

CHANUTE  
(316) 431-0479

OSAWATOMIE  
(913) 755-4182  
Nite (913) 294-3228  
Nite (913) 755-3980

GARNETT  
(913) 448-5915

Devlin Farm: Salette County

Kas State; Well No. 38

Elevation \_\_\_\_\_

Commenced Spuding 1-17 1980

Finished Drilling \_\_\_\_\_ 19 \_\_\_\_\_

Driller's Name \_\_\_\_\_

Driller's Name \_\_\_\_\_

Driller's Name \_\_\_\_\_

Tool Dresser's Name John Porter

Tool Dresser's Name \_\_\_\_\_

Tool Dresser's Name \_\_\_\_\_

Contractor's Name \_\_\_\_\_

3 31S 21E

(Section) (Township) (Range)

Distance from WEST line, 1160 ft.

Distance from NORTH line, 2600 ft.

SWNW

30'5" of 7" casing  
5 sacks 10# cement

### CASING AND TUBING

#### RECORD

Top 166  
Bottom 217

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

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

6 1/4" Set 283 6 1/4" Pulled \_\_\_\_\_

4" Set 283' 4" Pulled \_\_\_\_\_

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

## Rules of Thumb

### CEMENTING ANNULUS

2" ID - 6 1/4" - 1 Sack ..... 5.8'

2" ID - 8" - 1 Sack ..... 3.1'

3" ID - 8" - 1 Sack ..... 3.5'

4" ID - 8" - 1 Sack ..... 4.0'

### CAPACITY

2" - 1 BBL. equals ..... 256'

2 1/2" - 1 BBL. equals ..... 164'

3" - 1 BBL. equals ..... 115'

4" - 1 BBL. equals ..... 64'

4 7/8" - 1 BBL. equals ..... 43'

6 1/4" - 1 BBL. equals ..... 26'

8" - 1 BBL. equals ..... 16'

### WATER - CEMENT RATIO

5.5 gals. to 1 sack - 2 1/2 hours

to thicken slurry

7.7 gals. to 1 sack - 2 hours

to thicken slurry

Thickness of Strata	Formation	Total Depth	Remarks
1	Top Soil	1	
21	Gray clay	22	
4	Yellow clay	26	
1	River gravel	27	
6	Lime	32	
5	Black shale	37	
1	Light shale	38	
13	Lime	51	
5	Black shale	56	
14	Light shale	70	
4	Sand	74	
63	Med shale	<del>137</del>	
7	Dark shale	144	
	Struck of coal		
8	Med shale	152	
1	Light shale	153	
1	Dark shale	154	
2	Lime	156	
4	Dark shale	160	
7	Light shale	167	
2	Sand & shale	169	
	Best sand <sup>light core</sup>	169	
	Finish core	209	
4.7	Best sand	216	
51	Med shale	267	
7	Dark shale	274	



# START 135

Thickness of Strata	Formation	Total Depth	Remarks
	GRAY SHALE	136	
	LIMESTONE	138	
	STREAK OF COAL	138	
	DK SHALE	141	
	LIGHT GRAY SHALE	144	
	STREAK OF COAL	144	
SILTY	<del>DK</del> GRAY SHALE	156	
	SHALE & SANDSTONE	157	START CORE #1 162' 8"
	GRAY SHALE	161	
	SANDSTONE <sup>SHALE STREAKS</sup>		
			End core #1 @ 182' 9"
			Start " 2 @ —
			End core 2 @ 201' 9"

# Short Cuts

## TANK CAPACITY

BBLs. (42 gal.) equals  $D^2 \times h \times 14$

D equals diameter in feet.

h equals height in feet.

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## BARRELS PER DAY

Multiply gals. per minute x 34.2

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HP equals  $BPH \times PSI \times .0004$

BPH — barrels per hour

PSI — pounds square inch

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## 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

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18 51 66  
51 166 217  
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