

Log Book

Well No. _____

Farm _____

(State)

(County)

(Section)

(Township)

(Range)

For

Forrest Inc.
(Well Owner)

Leffert

**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**

API 15-033-23879

Well Log Farm: Neada County _____
 State: Well No. 1

Elevation _____

Commenced Spuding 11-19 19 82

Finished Drilling 1-23 19 82

Driller's Name William J. Bill

Driller's Name _____

Driller's Name _____

Tool Dresser's Name John Porter

Tool Dresser's Name Bob Harmon

Tool Dresser's Name _____

Contractor's Name VW & B Drilling

27 29 S 21 E

(Section) _____ Township _____ (Range) _____

Distance from S line, 1155 ft.

Distance from 21 E line, 825 ft.

20 sacks cement
 95 ft 6 5/8 casing

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

6 1/4" Set _____ 6 1/4" Pulled _____

4" Set _____ 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	
3	Yellow clay	4	
11	Fine sand & clay	15	
4	Dark gray shale	19	
5	Lime stone	24	
56	Gray shale	80	
59	Silty gray shale	139	
21	Lime stone	160	
1	Black shale	161	
4	Lime stone	165	
5	Black shale	170	
15	Gray shale	185	
	Stiff coal	185	
15	Light gray shale	200	
22	Gray shale	222	
21	Lime stone	243	
7	Black shale	250	
9	Lime stone	259	
6	Black shale	265	
11	Silty shale	276	
11	Silty shale	287	
60	Gray shale	347	
3	Limestone	350	
3	Light gray shale	353	
	Gray shale	355	
	Dark gray shale	362	

Thickness of Strata	Formation	Total Depth	Remarks
1	Coal	363	
4	Silty Gray shale	367	
8	Gray shale	375	
8	Silty Gray shale	383	
9	Dark Gray Stratified coal	392	
17	Silty Silty Gray	409	
12	Stratified coal	421	
7	Buff sand & shale	428	
12	Silty shale	440	
15	Dark Gray shale	455	
5	Silty Gray shale	460	
10	Gray shale	470	
2	Silty Gray shale	472	
4	Sand stone	476	
34	Silty Gray shale	510	
5	Silt stone	515	
2	Silty shale	517	
3	Dark Gray shale	520	
14	Gray shale	534	
1	Coal	535	
3	Gray shale	538	
20	Silty Gray shale	558	
	Dark Gray shale	587	
		603	Bottom shale

Short Cuts

TANK CAPACITY

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

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

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