

# Log Book

Well No. 13

Farm A. Mannes

Kans Labette  
(State) (County)

31 31S 21E  
(Section) (Township) (Range)

For H.C.O.  
(Well Owner)

*Jeped.*

**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

Ammonia Farm: Levitt County  
Kans State; Well No. 13

Elevation \_\_\_\_\_

Commenced Spuding July 20, 1981

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

Driller's Name William Billman

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

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

Tool Dresser's Name John Porter

Tool Dresser's Name Bill Porter

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

Contractor's Name V W & B

31 31S 21E

(Section)

(Township)

(Range)

Distance from WEST line, 2300 ft.

Distance from NORTH line, 1250 ft.

SE NE NW

40' of 7" casing set  
well 7 rods apart

### 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	Topsoil	1	
13	Yellow clay	14	
13	Gray clay	27	
20	Light shale	47	
7	Black shale	54	
15	Light stone	69	
5	Black shale	74	
87	Gray shale	161	
10	Coal	162	
16	Gray shale	178	
5	DARK SHALE	183	
3	GRAY SHALE	186	
1	COAL	187	
14	LIGHT GRAY SHALE	211	
8	SANDSTONE <sup>STREAK OF OIL</sup>	219	
1	STREAK COAL	220	
7	LIGHT SHALE	227	
6	GRAY SHALE	233	
1	STREAK COAL	234	
13	LIGHT GRAY SHALE	247	
18	GRAY SHALE <sup>streak</sup>	265	
21	GRAY SHALE	286	
1	STREAK COAL	287	
38	GREY SHALE	325	
3	QUARTZITE	328	
3	<del>SANDSTONE</del> <sup>SANDSTONE</sup>	331	

Thickness of Strata	Formation	Total Depth	Remarks
9	GRAY SHALE	340	
1	STREAK OF COAL	341	
9	SILTY GRAY SHALE	350	
11	SANDSTONE	361	
74	GRAY SHALE	<del>361</del> 435	
23	<del>GRAY</del> SILTSTONE	458	
1	STREAK OF COAL	459	
38	GRAY SHALE	497	
4	SILTSTONE	501	
16	GRAY SHALE	517	
1	PYRITE	518	
1	GRAY SHALE	519	
1	COAL & GRAY SHALE	520	
1	<del>GRAY</del> GRAY SHALE	520	
<del>48</del>	LIGHT SHOW OF GAS	530	
15	CHERT	545	
18	MISSISSIPPI LIMESTONE & CHERT	563	
2	1st bed of Miss Lime	566	
15	Miss Lime 2 chert	581	

# 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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