

Log Book

Well No. ~~WPA~~ 16

Farm WAMSLEY

KANSAS (State) Labette (County)

16 (Section) T31S (Township) R21E (Range)

For NE, NE (Well Owner)

Typed

**Kenneth R.
Johnson, Inc.**

Oil-Gas-Water Industrial Supplies

CHANUTE
(316) 431-0479

OSAWATOMIE
(913) 755-4182
Nite (913) 294-3226
Nite (913) 755-3980

GARNETT
(913) 448-5915

Waddy Farm: Labette County
 State: Well No. 16

Elevation _____

Commenced Spudding 11/22 1980

Finished Drilling _____ 19____

Driller's Name William J. Biller

Driller's Name _____

Driller's Name _____

Tool Dresser's Name John Porter

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name V W & B

16 31S 21E

(Section) (Township) (Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

20' of 7" casing
5 sack cement 10#
 CEMENT BASKETS 155 + 210

CASING AND TUBING

RECORD
264' of 4"

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

1 1/3 sack ~~_____~~ ~~_____~~ KCl

Thickness of Strata	Formation	Total Depth	Remarks
1	Top soil	1	
9	Yellow clay	10	
1	River gravel	11	
10	Lime	21	
4	Black shale	25	
4	Lime	29	
8	Sandstone	37	
66	Silty shale	103	
18	Black shale	121	
6	Dark shale	127	
	Structure coal	127	
9	Gray shale	136	
1	lime (brown)	137	
2	Gray shale	139	
1	lime	140	
2	Gray shale	142	
1	lime	143	
4	Black shale	147	
2	GRAY shale	149	
4	Coal streak	150 149	
3 4	GRAY SHALE	152	
18	SANDY SHALE gray	170	
24	Sandstone	194	
1	Coal	195	
5	Grey SHALE	200	
20	Sandy shale	220	

Start core 161
 Stop core 196
 2 cores

Short Cuts

TANK CAPACITY

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

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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