

Log Book

Well No.

9

Typed

Farm

Mc Gowan

Kans

(State)

Labette

(County)

30

(Section)

31S

(Township)

21E

(Range)

SWSW

For

H. C. O.

(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

McLean

Farm: *Labette* County

9 State; Well No. *9*

Elevation _____

Commenced Spuding *4-24* 19 *80*

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*

3 *315* *21E*

(Section) *SWSW* (Township) (Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

*21' of 7" casing set
with 5 sacks cement 10#
col. chloride
2 cores*

CASING AND TUBING

RECORD

*Bottom cut 247
top cut 160*

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

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

4" Set *275'* 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	
9	Yellow clay	10	
5	clay & lim. sand	15	
2	River gravel	17	
17	Lime	34	
1	Med shale	35	
5	Black shale	40	
1	Light shale	41	
13	Lime	54	
5	Black shale	59	
1	Light shale	60	
1	Lime	61	
8	Light shale	69	
74	Med shale	143	
4	Dark shale	147	
	Streak of coal	147	
9	Med shale	156	
1	Light shale	157	
1	Lime	158	
1	Med shale	159	
1	Lime	160	
6	Dark shale	166	
	Streak of coal	166	
10	Light shale	176	Start core 176.5
10	Sandstone	187	Stop core 216.5
	Med shale		

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 $BPH \times PSI \times .0004$

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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and Casing**

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Rental Strings

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98	WE SERVE	98
	The	57 21
28 2	Eastern Kansas Oil Field	275
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	New and Used	242
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	SUCKER RODS	28
	PUMPING EQUIPMENT	247
	VALVES AND FITTINGS	61
	WIRE ROPE	21
	ENGINES — ELECTRIC MOTORS AND CONTROLS	
	PUMPS AND WATER SYSTEMS	
	V BELTS AND HOSE	247
	POLES	87
	HARDWARE AND WIRE	110
	PLASTIC PIPE & FITTINGS	

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