

Log Book

Well No. 20 *Sept*

Farm Long

Kans (State) Crawford (County)

26 (Section) 30S (Township) 21E (Range)
SWNW

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

Long Farm: Crowford County
Kole State: Well No. 20

Elevation _____

Commenced Spuding 4-28 19 80

Finished Drilling 4-29 19 80

Driller's Name William Billman

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

26

315

21E

(Section)

(Township)

(Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

28' of 7" casing set with
7 sacks cement 14th cal. clc.

One case CASING AND TUBING

RECORD

Top cut 165
Bottom cut 246

10" Set	_____	10" Pulled	_____
8" Set	_____	8" Pulled	_____
6 1/2" Set	_____	6 1/2" Pulled	_____
4" Set	<u>279</u>	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	
16	Yellow clay	17	
2	River & soil clay	19	
7	Med shale	26	
17	Lime	43	
1	Med shale	44	
6	Black shale	50	
1	Light shale	51	
12	Lime	63	
5	Black shale	68	
15	Light shale	83	
70	Med shale	153	
4	Dark shale	157	
5	Med shale	162	
2	Light shale	164	
1	Lime	165	
12	Med shale	166	
1	Lime	167	
7	Dark shale	174	
2	Light shale	176	
	Stub of coal	176	
11	Light shale	187	Start core 182
9	Port. sand stone	196	Stop core 202
3	Lime	199	
20	Port. sand stone	218	
2	Coal	220	

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

WE MAINTAIN

Two Stores in Eastern Kansas

AT CONVENIENT LOCATIONS

Where You Will

Find Complete Stocks of

OIL AND GAS WELL SUPPLIES

Water Well Pipe and Casing

OIL FIELD TRUCKING KCC 3251

MAGNETO AND WATER METER REPAIR SERVICE

CASING RENTAL OUR SPECIALTY Pickup and Delivery of Rental Strings

WE SERVE

The **Eastern Kansas Oil Field**

STEEL PIPE AND CASING
New and Used

PUMPING UNITS

279

SUCKER RODS

33

PUMPING EQUIPMENT

2 1/2

28

VALVES AND FITTINGS

WIRE ROPE

211 8

33

**ENGINES - ELECTRIC MOTOR
AND CONTROLS**

1 8

2 1

PUMPS AND WATER SYSTEMS

21

33

33

33

V BELTS AND HOSE

POLES

HARDWARE AND WIRE

PLASTIC PIPE & FITTINGS

33

33

32 8

32 8

32 2

2 2

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