

Log Book

Well No. 5

Farm Mc Kays

Kan (State) Labette (County)

(Section) (Township) Typed (Range)

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

McKingsie Farm: Laletta County
Kans. State; Well No. 5

Elevation _____

Commenced Spuding 10-6, 1980

Finished Drilling 10-7-, 1980

Driller's Name William J. Billman

Driller's Name _____

Driller's Name _____

Tool Dresser's Name John Foster

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name V W & B

16 31 21
(Section) SE 1/4 OF SE 1/4 (Township) (Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

29' of 7" casing set
with 6 sacks cement 12#
cal. chloride

CASING AND TUBING

RECORD

Bottom cement 188'
top cement 122'

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

6 1/2" Set _____ 6 1/2" Pulled _____

4" Set 287' 4" Pulled _____

2" Set _____ 2" Pulled _____

Bottom cement bucket 172'
top cement bucket 129'

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	
19	Brown clay	20	
4	River sand	24	
2	Sandy shale	26	
14	Sand stone	40	
39	Sandy shale	79	
23	Gray shale	102	
7	Dark shale	109	
	Struck of coal	118	
9	Gray shale	119	
4	Lime	122	
X6	Light shale	128	
X8	Dark shale	136	
11	Sandy shale	147	Start core 144'
10	Sand stone	157	Stop core 164'
10	Sandy shale	167	
	Struck of coal		
6	Light shale	173	
12	Gray shale	185	
	Struck of coal	185	
10	Light shale	195	
	Struck of coal	195	
36	Gray shale	231	
1	Dark shale	232	
5	Light shale	237	
3	Sandy shale	240	

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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and Casing**

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