

Log Book

Well No. A. Manners #6

TYPED

Farm _____

Kansas

(State)

Labette

(County)

1100' FWL, 50' FSL, 5 1/2, NW, sec 30,
T31S, R21E.

(Section)

(Township)

(Range)

For Hickory Creek Oil Co.
(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

_____ Farm: _____ County

_____ State: Well No. _____

Elevation _____

Commenced Spuding _____ 19 _____

Finished Drilling _____ 19 _____

Driller's Name _____

Driller's Name _____

Driller's Name _____

Tool Dresser's Name _____

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name _____

(Section) (Township) (Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

*38' of 7" casing set
with 7 sacks cement
15# cal. chloride*

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	Top Soil	1	
10	Gray clay	11	
4	Yellow clay	15	
35	Gray shale	50	
19	lime	69	
6	Black shale	75	
1	Light shale	76	
14	lime	90	
4	Black shale	94	
4	Light Gray shale	98	
30	Sandy Gray shale	128	
2	Sand Stone	130	
15	Gray shale	145	
15	Silly Gray shale	160	
14	Gray shale	174	
3	Black shale	177	
	Struck of coal	177	
12	Gray shale	189	
2	lime	191	
1	Gray shale	192	
5	Black shale	197	
7	Gray shale	204	
10	Light Gray shale	214	
9	Gray shale	223	
5	Dark Gray shale	228	
10	Light Gray shale	238	

Thickness of Strata	Formation	Total Depth	Remarks
5	Gray shale	255	
17	Light ^{gray} shale	272	
8	Sand stone	280	
19	Gray shale	299	
9	Dark gray shale	308	
	Stratified coal	308	
2	Rock shale	310	
10	Sand stone	320	
15	Gray shale	335	
9	Light Gray shale	344	
4	Sandy Gray shale	348	
6	Sand stone	354	
14	Dark Gray shale	368	
10	Light ^{sandy} Gray shale	378	
6	Sand stone	384	
16	Gray shale	400	
	Stratified coal	400	
12	Light Gray shale	412	
14	Gray shale	426	
6	Dark Gray shale	432	
6	Light Gray shale	438	
15	Dark Gray shale	453	
14	Sand stone	467	
12	Sandy Gray shale	479	
	Stratified coal	479	
23	Dark Gray shale	502	

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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