

Log Book

Well No. _____

Farm _____

(State)

(County)

(Section)

(Township)

(Range)

For

Charles Thomas

(Well Owner)

Typed

***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**

API 15-099-21860

oper lic # 6232

C. Thomas Farm: Shelton County

Kan State; Well No. 1

Elevation _____

Commenced Spuding 12-16 19 82

Finished Drilling _____ 19 _____

Driller's Name William Kellum

Driller's Name _____

Driller's Name _____

Tool Dresser's Name John Porter

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name VW & B

17 33S 19E

(Section) (Township) (Range)

Distance from NE 1/4 NORTH line, 2490 ft.

Distance from EAST line, 1610 ft.

21' of 6 5/8 casing
set with 5 sack cement
12# col. clouds.

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

6 1/2" Set _____ 6 1/2" 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	
3	Green clay	4	
3	Gray shale	7	
2	Lime Stone	9	
12	Gray shale	21	
2	Silt Stone	23	Water
22	Silty Gray shale	45	
35	Gray shale	80	
10	Silty Gray shale	90	
15	Silt Stone	105	
17	Gray shale	122	
3	Dark Gray shale	125	
25	Lime Stone	150	
5	Black shale	155	
22	Gray shale	177	
10	Silty Gray shale	187	
3	Shale Sand Stone	190	smell of oil
9	Silty Gray shale	199	
9	Gray shale	208	
26	Light Sand (concrete)	234	
5	Black shale	239	Gas
16	Lime Stone (concrete)	255	
3	Black shale	258	
2	Lime Stone	260	
20	Silt Stone	280	
22	Silty Gray shale	302	

302

Thickness of Strata	Formation	Total Depth	Remarks
27	Gray shale	329	
	Struck of coal	329	
1	Lime st.	330	
	Silty Gray shale	350	
5	Sandstone	355	Gas
11	Gray shale	366	
4	Dark Gray shale	370	
5	Light Silty shale	375	
18	Dark Gray shale	393	
5	Gray shale	398	
9	Dark Gray shale	407	
	Struck of coal	407	
20	Silty Light Gray shale	427	
	Struck of coal	427	
14	Gray shale	441	
45	Silty Gray shale	486	
	Struck of coal	486	
169	Silty Gray shale	655	
5	Sandstone	660	
44	Silty Gray shale	704	
3	Sandstone	707	
33	Gray shale	740	
15	Dark shale & pyrite	755	
16	Miss. chert	771	Little Gas
	Miss. lime & chert	835	
2	Dark shale	837	

Thickness of Strata	Formation	Total Depth	Remarks
			960-980 Water
	Miss. Lime	1070	
	~~Green shale~~	1077	
	Miss. Lime	1084	
	Black shale	1089	
	~~Black shale~~	~~1092~~	
3	Oriskany Lime	1090	Show of oil
	Lime	1098	
	Black shale	1105	
	Lime	1108	
	Sandstone	1110	
	Lime	1152	
	Chalk rock	1155	
	Lime	1162	~~Bottom of hole~~
	Gray shale	1273	
	~~Gray shale~~	~~1273~~	
	Lime	1280	Bottom of hole

Short Cuts

TANK CAPACITY

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

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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