

Log Book

*Sept 1960
changed plug*

Well No. 1

Farm E. PRUITT

KANS (State) CRAWFORD (County)

32 (Section) 29S. (Township) 23E. (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

E. PRUITT Farm: C. RANFORD County

KANS State: Well No. 1

Elevation _____

Commenced Spuding 9/ 1981

Finished Drilling _____ 19

Driller's Name William J. Billon

Driller's Name _____

Driller's Name _____

Tool Dresser's Name John Porter

Tool Dresser's Name Bill Porter

Tool Dresser's Name _____

Contractor's Name V W & B

32 29 S. 23 E.

(Section) (Township) (Range)

Distance from WEST line, 2100 ft.

Distance from SOUTH line, 165' ft.
SW 1/4

70' of 7" set with 10 sacks
cement 10# col. clouds.

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	
9	Gray clay	10	
4	Limestone ^(orange)	14	
4	Black shale	18	
2	Limestone ^(orange)	20	
6	Silty light gray shale	26	
3	Sandstone	29	Show of oil 26' to 29'
4	Light gray shale	33	
8	Silty gray shale	41	
8	Siltstone	49	
6	Silty gray shale	55	6 1/4" tri-cone bit at 69'
8	Gray shale	136	
3	Dark gray shale	139	
	Struck coal	139	
4	Dark gray shale	143	
1	Light gray shale	144	
1	Fine stone (red brown)	145	
1	Light gray shale	146	
1	Dark gray shale	147	
10	Dark gray shale	157	
7	Light gray shale	164	
23	Gray shale	187	
13	Light gray shale	200	
8	Gray shale	208	
20	Silty gray shale	228	
3	Shale sandstone	231	

Thickness of Strata	Formation	Total Depth	Remarks
4	Silty-sandy shale	235	start core 231
1	shaly sandstone	236	Trace of
7	sandy shale	243	stop core 251
3	sandstone	246	oil
3	sandy shale	249	
8	Gray shale	257	
6	shaly sandstone	263	
	Struck of coal	263	
6	Sandstone & shale	269	
6	Sandstone	275	
5	Sandstone & shale	280	
	Struck of coal	280	
9	Sandstone & shale	289	
8	Sandstone	297	
	Struck of coal	297	
41	Sandstone	338	
6	Sandstone & shale	344	
	Struck of coal	344	
9	Gray shale	353	
	Struck of coal	353	
6	Silty Gray shale	359	
	Dark Gray shale	364	
	Gray shale	401	Bottom of hole 401
			110 surface

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

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