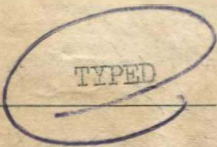


Log Book

Well No. Caves # 1

Farm 

Ks (State) Labette (County)

NE, NE, 36, T31S, R20E
(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

CARES Farm: LADETTE County

KANS State; Well No. 1

Elevation _____

Commenced Spuding MAR 2 1981

Finished Drilling _____ 19 _____

Driller's Name William J. Allen

Driller's Name _____

Driller's Name _____

Tool Dresser's Name John Cortis

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name VW & B

36 315 30E

(Section)

(Township)

(Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

*4.3' of 7" casing set
with 6 rock cement
12# 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	
7	Gray clay	8	
3	Yellow clay	11	
4	Yellow clay	15	
45	Gray shale	60	
20	Lime	80	
5	BLACK SHALE	85	
15	Lime	100	
4	Black shale	104	
1	Sandstone	105	
2	Sandy light shale	107	
8	Sandstone	115	
5	Siltstone	120	
3	Gray shale	123	
3	Sandstone	126	
49	Gray silty shale	175	
18	Gray shale	193	
5	Dark shale	198	
5	Gray shale	213	
1	Lime	214	
9	Dark shale	223	
8	Sandstone	235	
25	Sandstone	260	
15	Sandstone & shale	285	
7	Sandy Gray shale	292	
11	Sandstone	303	

303

Q3

Thickness of Strata	Formation	Total Depth	Remarks
26	Gray shale	329	
10	Sand stone	339	
34	Sand stone & shale	373	
17	Gray shale	380	
17	Sand stone	407	
68	Gray shale	475	
55	Dark Gray shale	530	
5	Light Gray shale	535	
15	Gray shale	550	
10	Light Gray shale	560	
	Gray shale		
	Street coal	560	
3	Light Gray shale	563	
	Dark Gray shale	573	
	Mix clat	601	
	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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Water Well Pipe
and Casing

OIL FIELD TRUCKING
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REPAIR SERVICE

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