

Typed

Log Book

Well No.

Catcher # 3

Farm

Kans

(State)

Montgomery

(County)

19

(Section)

32 S

(Township)

17 E

(Range)

For

Y W & B

(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

API # 15-125-24799

Catcher Farm: Montgomery County

Kans State; Well No. 3

Elevation _____

Commenced Spuding April 2 1982

Finished Drilling April 7 1982

Driller's Name William J. Biller

Driller's Name _____

Driller's Name _____

Tool Dresser's Name John Porter

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name _____

(Section) (Township) (Range)

Distance from NORTH line, 330 ft.

Distance from WEST line, 1320 ft.

60' of 7" casing set
with 12 sacks cement

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	
15	Yellow clay	16	
16	Lime stone	32	
12	SANDSTONE	44	
28	SIXTY GRAY SHALE	72	
5	Gray shale	77	
15	Silty Gray shale	92	
15	Lime Stone	107	
35	Gray shale	142	
15	Lime Stone	157	
30	Dark Gray shale	187	
5	Lime Stone	192	
12	Dark Gray shale	204	
2	Lime Stone	206	
8	Gray shale	214	
1	Lime Stone	215	
15	Light Gray ^{calcareous} shale	230	
10	Gray shale	240	
3	Light Gray ^{calcareous} shale	243	
3	Lime Stone	246	
8	Gray calcareous shale	254	
13	Lime Stone	267	
10	Gray shale	277	
11	Lime Stone	288	
4	Dark Gray shale	293	
3	Lime Stone	296	

~~000000~~

296

Thickness of Strata	Formation	Total Depth	Remarks
5	Gray calcareous shale	301	
4	fine stone	305	
3	Gray cal shale	309	
8	Sand stone	316	
9	Silty Gray shale	325	
5	Silt stone	330	
15	Gray shale	345	
14	Silty Gray shale	359	
12	Sand stone	371	
66	Silty Gray shale	437	
22	Pink lime	459	
11	Dark Gray shale	470	
	Struck off coal	470	
5	Light Gray silty	475	
2	Silt stone	477	
14	Gray shale	491	
9	Sand stone	500	
2	Gray shale	502	
23	Sand stone shale	525	
2	Dark Gray shale	527	
32	Oswego lime stone	559	
9	Black shale	568	
19	Oswego lime stone	587	
2	Dark Gray shale	589	
5	Black shale	594	
	Struck off coal	594	

594



Thickness of Strata	Formation	Total Depth	Remarks
11	Oswego Limestone	605	
16	Black Shale	621	
2	coal	623	
7	Light Gray shale	630	
11	Gray shale	641	
1	Lime Stone	642	
4	Gray shale	646	
2	Port Gray shale	648	
	Struck of coal	648	
4	Gray shale	652	
1	Lime Stone	653	
4	Gray shale	657	
	Struck of coal	657	
4	Gray shale	661	
	Struck of coal	661	
18	Gray shale	679	
	Struck of coal	679	
9	Silly Light Gray	688	
8	Silly Gray shale	696	
1	Lime Stone	697	
	Struck of coal	697	
4	Silly Gray shale	701	
2	Sand Stone	703	
13	Gray shale	716	
7	Sand Stone	723	show of oil
35	Dark Gray shale	758	

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 x PSI x .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 — $\text{RPM} \times d$ over $\text{SPM} \times R$

d — $\text{SPM} \times R \times D$ over RPM

SPM — $\text{RPM} \times D$ over $R \times D$

R — $\text{RPM} \times d$ over $\text{SPM} \times D$

BELT LENGTH — $2C + 1.57(D + d) + \frac{(D - d)^2}{4C}$

*Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$

746 WATTS equal 1 HP

WE MAINTAIN

Two Stores in Eastern Kansas

AT CONVENIENT LOCATIONS

Where You Will

Find Complete Stocks of

OIL AND GAS WELL SUPPLIES

**Water Well Pipe
and Casing**

OIL FIELD TRUCKING
KCC 3251

**MAGNETO AND WATER METER
REPAIR SERVICE**

CASING RENTAL OUR SPECIALTY
Pickup and Delivery of
Rental Strings

WE SERVE

The

Eastern Kansas Oil Field

STEEL PIPE AND CASING
New and Used

PUMPING UNITS

SUCKER RODS

PUMPING EQUIPMENT

VALVES AND FITTINGS

WIRE ROPE

ENGINES – ELECTRIC MOTORS
AND CONTROLS

PUMPS AND WATER SYSTEMS

V BELTS AND HOSE

POLES
HARDWARE AND WIRE

PLASTIC PIPE & FITTINGS

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