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Log Book

Well No. 2

Farm MAUDE EVANS

KANSAS

(State)

FRANKLIN

(County)

SW $\frac{1}{4}$

7

(Section)

17S

(Township)

20E

(Range)

For EVANS & MURRA

(Well Owner)

**Kenneth R.
Johnson**

OIL WELL SUPPLIES

OSAWATOMIE

755-4182

755-4732

GARNETT

448-5915

Mauds Evans Farm; Franklin County
Kansas State; Well No. 2

Elevation _____

Commenced Spuding March 4, 1969

Finished Drilling _____, 19____

Driller's Name IRVIN WINTERSCHIED

Driller's Name _____

Driller's Name _____

Tool Dresser's Name _____

Tool Dresser's Name _____

Tool Dresser's Name _____

Contractor's Name Hughes Drilling Co.

7 17S 20E
(Section) (Township) (Range)

Distance from _____ line, _____ ft.

Distance from _____ line, _____ ft.

CASTING AND TUBING

RECORD

10" Set 5 FT. 10" Pulled SAME

8" Set 19 FT. 8" Pulled SAME

6 1/4" Set 547 6 1/4" Pulled SAME

4" Set 661.50 4" Pulled _____

2" Set _____ 2" Pulled _____

6 1/4" surface pipe set + cemented 10 ft.

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 hrs.
to thicken slurry

7.7 gals. to 1 sack — 2 hrs.
to thicken slurry

Thickness of Starts	Formation	Total Depth	Remarks
2	Soil	2	
10	Rock	12	
18	Shale	30	L.W.
4	Lime	34	
68	Shale	102	
20	Lime	122	
25	Shale	147	
6	Lime	153	
31	Shales	184	
19	Lime	203	L.W.
15	Shale	218	
24	Lime	242	
8	Shale	250	1 B.W.
21	Lime	271	
5	Shale	276	water 3 B.
10	Lime	286	
139	Shale	425	Has 315
2	Lime	427	
18	Shale	445	
10	Lime	455	
30	Shales	485	
8	Lime	493	
9	Shale	502	
5	Lime	507	
13	Shale	520	Bib.

DFM - Perforating areas.

Thickness of Starts	Formation	Total Depth
		656
Perf	2d sand 612-613 ⁷⁵ 6125-615 ⁵⁰	619
perf	3rd sand 627-629-631	
8-15 grain stick jets		
• 4 1/2 in diam 7.81 in penetration		

Remarks

Lens reef - oil saturation 550-555

1st Squirrel Sand

560-564 --- 566-573 - Oil saturation

560-564 fair sand.

564-566 Shale

566-573 good sand

2nd Squirrel Sand

612-621 - Oil Saturation

612-616 - excellent

616-618 - good

618-621 - poor

3rd Squirrel Sand

626-631 - Oil Saturation

626-627 fair-line

627-629 good

629-631 fair

DFM - 1 ft. above ground level

Short Cuts

TANK CAPACITY

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

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—Stroke 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 $R \times D$

RPM— $SPM \times R \times D$ over d

R— $RPM \times d$ over $SPM \times D$

BELT LENGTH — $2C$ plus $1.57 (D \text{ plus } d)$ plus

$(D-d)^2$ over $4C$

* Need these to figure belt length

—12—

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V BELTS AND HOSE

**POLES
HARDWARE AND WIRE**

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