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Log Book

Well No. 2

Farm MAUDE EVANS

KANSAS (State) FRANKLIN (County)

SW¼

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

For EVANS & MURRA (Well Owner)

Maude Evens Farm; Franklin County

Kansas State; Well No. 2

Elevation _____

Commenced Spuding Dec. 4, 1969

Finished Drilling _____, 19__

Driller's Name Irvin Winterscheid

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 (Section) 17S (Township) 20E (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

6¼" Set 547 6¼" Pulled SAME

4" Set 661.50 4" Pulled _____

2" Set _____ 2" Pulled _____

6¼" surface pipe set + cmtd 10 ft.

Rules of Thumb

CEMENTING ANNULUS

2" ID — 6¼" — 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'

2½" — 1 BBL. equals ..... 164'

3" — 1 BBL. equals ..... 115'

4" — 1 BBL. equals ..... 64'

4⅞" — 1 BBL. equals ..... 43'

6¼" — 1 BBL. equals ..... 26'

8" — 1 BBL. equals ..... 16'

WATER - CEMENT RATIO

5.5 gals. to 1 sack — 2½ 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	Shale	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	Gas 315
2	Lime	427	
18	Shale	445	
10	Lime	455	
30	Shale	485	
8	Lime	493	
9	Shale	502	
5	Lime	507	
13	Shale	520	Blk.

Thickness of Starts	Formation	Total Depth
		656
Perf	2d sand 612 61375 61725 61550	619
Perf	3rd sand 627-629-631	
	8-15 gram stick jet ¼" in diam 7.81 in penetration	

DFM - Perforating areas.

Remarks

Lenie 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 - Lenie

627-629 good

629-631 fair

DFM - 1 ft. above ground location

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D^2 x .14 x 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—Stroke per Minute
RPM—Engine Speed
R—Gear Box Ratio
***C**—Shaft Center Distance

D—RPMxd over SPMxR
d—SPMxRxD over RPM
SPM—RPMxd over RxD
RPM—SPMxRxD over d
R—RPMxd over SPMxD

BELT LENGTH — 2C plus 1.57 (D plus d) plus $(D-d)^2$ over 4C

*** Need these to figure belt length**