

CONTRACTOR

April 4-6, 1985

2-16-20E OPERATOR

HUGHES DRILLING COMPANY
122 NORTH MAIN
WELLSVILLE, KANSAS 66092

Hughes Drilling Co
122 N. Main
Wellsville, Kansas

LOG

McMILLEN
WELL NO. 1
FRANKLIN CO., KS.
Sec. 2, Twp. 16S, Rng. 20E
Center

API # 15-059-23,876
2640' N from SE corn
2640' W from SE corn
of Sectio

| STRATA THICKNESS | FORMATION DRILLED | T.D. | STRATA THICKNESS | FORMATION DRILLED | T.D. |
|------------------|--|------|------------------|--|------|
| 2 | Soil | 2 | 7 | Shale | 569 |
| 25 | Clay | 27 | 9 | Lime | 578 |
| 23 | Lime | 50 | 6 | Shale | 584 |
| 7 | Shale(Dark) (Slate 55-56) | 57 | 4 | Lime | 588 |
| 11 | Lime | 68 | 10 | Shale (Slate 596-597) | 598 |
| 5 | Shale | 74 | 6 | Lime | 604 |
| 21 | Lime | 95 | 15 | Shale | 619 |
| 58 | Shale | 153 | 5 | Lime | 624 |
| 19 | Lime | 172 | 4 | Shale (Slate 627-628) | 628 |
| 55 | Shale | 227 | 10 | Lime | 638 |
| 28 | Lime | 255 | 14 | Shale | 652 |
| 3 | Shale | 265 | 2 | Lime | 654 |
| 7 | Lime | 272 | 8 | Shale(White 658-662) | 662 |
| 26 | Shale | 298 | 6 | Gas Sand (Lt. brown) | 668 |
| 12 | Lime (Oil trace 300-304) | 310 | 7.5 | Oil Sand #1 SQUIRREL | 675. |
| 22 | Shale(Lime 314-315) | 332 | 34.5 | Shale(Limebreak 702') | 710 |
| 13 | Lime 30' (Shale 340-342) | 355 | 1 | Lime | 711 |
| 9 | Shale(Slate 362-363) | 364 | 1 | Shale | 712 |
| 22 | Lime 20' | 386 | 3 | Oil Sand #2 SQUIRREL (Oil Show) (Lamin. w/shale) | 715 |
| 4 | Shale(Slate 389-390) | 390 | 13 | Shale | 728 |
| 4 | Lime | 394 | 2 | Oil Sand #3 SQUIRREL (Oil Show) (Lamin. w/Shale) | 730 |
| 3 | Shale | 397 | 4 | Shale | 734T |
| 5 | Lime "HERTHA" | 402 | | | |
| 116 | Shale (Brk. 406-410) (Sdy. 445-451) | 518 | | | |
| 3 | Sand(Oil trace) | 521 | | | |
| 36 | Shale (Slate 547-548) (Brk. 548-552) | 557 | | | |
| 5 | Sand "WAYSIDE" (Hard 557-559) (Solid 559-562) (Some bleeding oil) | 562 | | | |

DEC 3 1985
CONSERVATION DIVISION
Wichita, Kansas

Drilled 734 ft. of 5 1/8" hole.
Set 20.75 ft. of used 6 1/4" surface pip
Cemented in with 5 sacks cement.
Cored #1 SQUIRREL 664-682.
Set 721.40 ft. of 2 1/2" 10 rd. reg. pip
Seating nipple at 664.90 ft.
Used 4 centralizers.
Bolt in bottom.

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH
DEC 8 1985

HUGHES DRILLING CO.

Wellsville, Kansas 66092

Page 3
2-16-206

Toger 913-883-2235
Jarrel 913-883-4027

Ron 913-883-41
Clay 913-883-4385

CORE TIME
LEASE #1 McMillen
FORMATION #1 Squirrel
DATE: 4/6/85

(RPM 80)

| | FROM | FEEET TO | TIME | MINUTES | REMARKS |
|----|------|----------|-------------------|---------|--|
| 1 | 664 | 665 | 10:07.30-10:08.00 | .30 | (lt. Brown) |
| 2 | 665 | 666 | 10:08.00-10:08.30 | .30 | Solid Gas Sand (Oil Trace) |
| 3 | 666 | 667 | 10:08.30-10:09.00 | .30 | |
| 4 | 667 | 668 | 10:09.00-10:09.15 | .15 | |
| 5 | 668 | 669 | 10:09.15-10:10.00 | .45 | Sand slightly lamin. w/shale (Bleeding oil) |
| 6 | 669 | 670 | 10:10.00-10:10.45 | .45 | |
| 7 | 670 | 671 | 10:10.45-10:11.45 | 1.00 | |
| 8 | 671 | 672 | 10:11.45-10:13.00 | 1.15 | Sand lamin. w/shale (Bleeding oil) |
| 9 | 672 | 673 | 10:13.00-10:14.30 | 1.30 | |
| 10 | 673 | 674 | 10:14.30-10:16.00 | 1.30 | |
| 11 | 674 | 675 | 10:16.00-10:18.00 | 2.00 | 674-675.5 Sand very lamin. w/shale (some Bleeding oil) |
| 12 | 675 | 676 | 10:18.00-10:21.00 | 3.00 | |
| 13 | 676 | 677 | 10:21.00-10:24.15 | 3.15 | |
| 14 | 677 | 678 | 10:24.15-10:27.00 | 2.45 | Shale (Best Perf. Zone) 668-675 |
| 15 | 678 | 679 | 10:27.00-10:30.45 | 3.45 | |
| 16 | 679 | 680 | 10:30.45-10:34.15 | 3.30 | |
| 17 | 680 | 681 | 10:34.15-10:35.10 | 3.45 | |
| 18 | 681 | 682 | 10:35.10-10:40.00 | 4.00 | |
| 19 | 682 | 683 | STOP | | |
| 20 | 683 | 684 | | | |

SIDE TWO

Operator Name Hughes Drilling Company..... Lease Name McMillen..... Well # 1...

Sec. 2... Twp. 16S... Rge. 20... East West County Franklin.....

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name Top Bottom

| | | | | | |
|--------------------------------------|------------------|-----|-------|---------------|---------|
| Estimated Production Per 24 Hours | Oil | Gas | Water | Gas-Oil Ratio | Gravity |
| | .42 Bbl. Bbls | | | | 23.5 |
| | | MCF | Bbls | CFPB | |

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

| Purpose of String | Size Hole Drilled | Size Casing Set (in O.D.) | Weight Lbs/Ft. | Setting Depth | Type of Cement | #Sacks Used | Type and Percent Additives |
|-------------------|----------------------|------------------------------|-------------------|------------------|-------------------|----------------|----------------------------------|
| Surface | ..... | 6 1/2" | ..... | 20.75' | Portland | 5 | ..... |
| Production | 5 1/8" | 2 1/2" | ..... | 721.40' | ..... | ..... | ..... |

| PERFORATION RECORD | | Acid, Fracture, Shot, Cement Squeeze Record | |
|--------------------|---|---|-------|
| Shots Per Foot | Specify Footage of Each Interval Perforated | (Amount and Kind of Material Used) | Depth |
| ..... | 10 shots 672'-676' | ..... | ..... |
| | | | |
| | | | |

TUBING RECORD Size Set At Packer at Liner Run Yes No

Date of First Production July 1985 Producing Method Flowing Pumping Gas Lift Other (explain).....