

HUGHES DRILLING REPORT

Well No. 26-F Size 7"
 Farm Brown Feet 33.0
 Circulated 9 sx cement

PERMANENT CSG.
 Size 2 7/8" 8rd EUE (New)
 Feet 926.70 pipe T.D.
 Baffle at 900.75
 Float shoe on Bottom
 T. D. at Completion 940'

OPERATOR Hughes Drilling Co.

Contractor HUGHES DRILLING CO.

2300 FSL 2475 FEL

API # 15.091-24291

| DATE | DRILLED | | REMARKS - TYPE WORK - BILLING REF. | PIPE TALLY |
|-----------------------|---------|-----|------------------------------------|-----------------|
| | FROM | TO | | |
| 5/31/14 | 0 | 2 | Soil | (1) 21.5-21.5 |
| 33' | 2 | 30 | clay | (2) 22.5-44.0 |
| 7/5/14 | 30 | 49 | shale | (3) 22.5-66.5 |
| 5 | 49 | 53 | Lime | (4) 22.5-89.0 |
| New 58' Dec | 53 | 56 | shale | (5) 22.5-114.5 |
| Fixed Drawn on 4/9 | 56 | 74 | Lime | (6) 22.5-134.0 |
| | 74 | 81 | shale (Rank) (slate 80-81) | (7) 22.5-156.5 |
| | 81 | 90 | Lime | (8) 22.5-179.0 |
| | 90 | 95 | shale | (9) 22.5-201.5 |
| | 95 | 115 | Lime | (10) 22.5-224.0 |
| 155 | 115 | 139 | shale | (11) 22.5-246.5 |
| 6/17/14 | 139 | 187 | Lime | (12) 22.5-269.0 |
| 177 | 167 | 189 | shale | (13) 22.5-291.5 |
| | 189 | 202 | Lime | (14) 22.5-314.0 |
| | 202 | 229 | shale | (15) 22.5-336.5 |
| | 229 | 237 | Lime | (16) 22.5-359.0 |
| | 237 | 245 | shale | (17) 22.5-381.5 |
| | 245 | 255 | Lime | (18) 22.5-404.0 |
| | 255 | 273 | shale | (19) 22.5-426.5 |
| | 273 | 282 | Lime | (20) 22.5-449.0 |
| | 282 | 291 | shale | (21) 22.5-471.5 |
| | 291 | 297 | Lime | (22) 22.5-494.0 |
| | 297 | 339 | shale (Lime 328-329) | (23) 22.5-516.5 |
| 30' | 339 | 363 | Lime | (24) 22.5-539.0 |
| | 363 | 369 | shale (slate 368-369) | (25) 22.5-561.5 |
| 20' | 369 | 392 | Lime | (26) 22.5-584.0 |
| | 392 | 396 | shale (slate 395-396) | (27) 22.5-606.5 |

| STRATA THICKNESS | FORMATION DRILLED | T.D. |
|------------------|-------------------|----------|
| 2 | soil | 2 |
| 28 | clay | 30 |
| 19 | shale | 49 |
| 4 | Lime | 53 |
| 3 | shale | 56 |
| 18 | Lime | 74 |
| 7 | shale | 81 |
| 9 | Lime | 90 |
| 5 | shale | 95 |
| 30 | Lime | 115 |
| 24 | shale | 139 |
| 23 | Lime | 162 |
| 27 | shale | 189 |
| 13 | Lime | 202 |
| 27 | shale | 229 |
| 8 | Lime | 237 |
| 8 | shale | 245 |
| 10 | Lime | 255 |
| 18 | shale | 273 |
| 9 | Lime | 282 |
| 9 | shale | 291 |
| 6 | Lime | 297 |
| 42 | shale | 339 |
| 30' | 24 | Lime 363 |
| 6 | shale | 369 |
| 20' | 23 | Lime 392 |
| 4 | shale | 396 |
| 4 | Lime | 400 |
| 4 | shale | 404 |
| 7 | Lime | 410 |
| 176 | shale | 586 |
| 8 | Lime | 594 |
| 8 | shale | 602 |
| 8 | Lime | 610 |
| 13 | shale | 623 |
| 3 | Lime | 626 |
| 15 | shale | 641 |
| 3 | Lime | 644 |
| 4 | shale | 647 |
| 6 | Red Bed | 653 |
| 27 | shale | 680 |

K.D. 20

TPBSS

HUGHES DRILLING REPORT

Well No. 26-1
 Farm Brown
 SURFACE CASING Size _____
 Feet _____
 Circulated _____ sx cement

PERMANENT CSG.
 Size 2 7/8" 8rd EVE (New)
 Feet 926.70 pipe T.D.
 Baffle at 900.75
 Float shoe on Bottom
 T. D. at Completion 940

2300 FSL 2475 FEL

API # 15-091-24291

OPERATOR Hughes Drilling

Contractor HUGHES DRILLING CO.

| STRATA THICKNESS | FORMATION DRILLED | T.D. |
|------------------|-------------------|------|
| 1 | lime | 621 |
| 38 | shale | 719 |
| 2 | lime | 721 |
| 3 | shale | 724 |
| 1 | lime | 725 |
| 43 | shale | 768 |
| 3 | lime | 771 |
| 48 | shale | 819 |
| 1 | lime | 820 |
| 44 | shale | 864 |
| 2 | lime | 866 |
| 9 | oil sand | 875 |
| 65 | shale | 940 |
| | | T.D. |

| DATE | DRILLED | | REMARKS - TYPE WORK - BILLING REF. | PIPE TALLY |
|-----------|---------|-----|----------------------------------------|-----------------|
| | FROM | TO | | |
| | 396 | 400 | lime | (28) 22.5-629.0 |
| | 400 | 404 | shale | (29) 22.5-651.5 |
| "Hertler" | 404 | 410 | lime | (30) 22.5-674.0 |
| | 410 | 586 | shale (BRKN 417-420) | (31) 22.5-696.5 |
| | 586 | 594 | lime | (32) 22.5-719.0 |
| | 594 | 602 | shale | (33) 22.5-741.5 |
| | 602 | 610 | lime | (34) 22.5-764.0 |
| | 610 | 623 | shale | (35) 22.5-786.5 |
| | 623 | 626 | lime (Brown) | (36) 22.5-809.0 |
| | 626 | 641 | shale (slate 630-631) BRKN (634-644) | |
| | 641 | 644 | lime | (37) 22.5-831.5 |
| | 644 | 647 | shale | (38) 22.5-854.0 |
| | 647 | 653 | Red Bed | (39) 22.5-876.5 |
| | 653 | 680 | shale (BRKN 664-670) | (40) 22.5-899.0 |
| | 680 | 681 | lime | (41) 22.5-821.5 |
| | 681 | 719 | shale | |
| 761 | 719 | 721 | lime | |
| 6-18-14 | 721 | 724 | shale | |
| | 724 | 725 | lime | |
| | 725 | 768 | shale | |
| | 768 | 771 | lime | |
| | 771 | 819 | shale (Red Bed 791-795) | |
| | 819 | 820 | lime | |
| | 820 | 864 | shale (limebreak 835) (lime Break 848) | |
| | 864 | 866 | lime (sandy some bleed) | |
| | 866 | 875 | o.i sand (Remarks pg. 3) | |
| | 875 | 940 | shale (lime 899) | |

T.D.

6-18-14 set 926.70 ft of New 2 7/8" 8rd EVE
 Baffle at 900.75 Float shoe on Bottom
 used 3 centralizers

MIT passed

15 lbs of Miller
 plated bits

HUGHES DRILLING CO.

Pg 3

Wellsville, Kansas 66092

Roger 913-883-2235
Darrel 913-883-4027

CORE TIME

Ron 913-883-4656
Clay 913-883-4383

LEASE BRAUN #26-T

FORMATION Bartlesville

DATE: 6/18/14

~~DM~~ Chip Sample

| FROM | FEET TO | TIME | MINUTES | REMARKS |
|------|---------|------|------------------------------------------------------------------|------------------------------------|
| 864 | 865 | } | sdy lime | 864-866 (some bleed) |
| 865 | 866 | | | |
| 866 | 867 | } | solid sand (exc. bleed) | |
| 867 | 868 | | | |
| 868 | 869 | | | |
| 869 | 870 | | | |
| 870 | 871 | | | |
| 871 | 872 | | | |
| 872 | 873 | } | sand slightly lamin, w/shale (bleeding) | |
| 873 | 874 | | | |
| 874 | 875 | | | |
| 875 | 876 | } | shale | |
| 876 | 877 | | | |
| 877 | 878 | | | |
| | | | | (Best Perf Zone) 865-875 CCH |
| | | | 7/2/14 - midwest survey perfed 865-875 31 perfs 2" DMH-RTG | |

