



**CONSOLIDATED**  
Oil Well Services, LLC

270413

TICKET NUMBER 48043

LOCATION Ottawa KS

FOREMAN Fred Mader

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|------|------------|--------------------|---------|----------|-------|--------|
| 8-14 | 3425       | No McMillan #2.4   | SE 2    | 16       | 22    | FR     |

CUSTOMER  
Hughes Drilling

MAILING ADDRESS  
122 N. main St

CITY  
Wellsville

STATE  
KS

ZIP CODE  
66092

| TRUCK # | DRIVER   | TRUCK # | DRIVER |
|---------|----------|---------|--------|
| 512     | Fred Mad |         |        |
| 495     | Har Bee  |         |        |
| 558     | Brv Br   |         |        |

JOB TYPE Long string HOLE SIZE 5 5/8 HOLE DEPTH 815' CASING SIZE & WEIGHT 2 1/2 EUE

CASING DEPTH 803' DRILL PIPE Baffle TUBING @ 774.75' OTHER \_\_\_\_\_

SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 28' + Plug

DISPLACEMENT 4.5 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.3 PM

REMARKS: Hold crew Safety Meeting. Establish circulation. Mix + Pump 98 sks 50/50 Poz Mix Cement + 2% Gel 1/4" Flo Seal / sk. Cement to surface. Flush pump + lines clean. Displace 2 1/2" Rubber plug to Baffle in casing. Pressure to 800\* PSI. Monitor pressure for 30 min. MIT. Release pressure to set float valve. Shut in casing.

Customer Supplied Water

Fred Mader

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE         | TOTAL                 |
|--------------|-------------------|------------------------------------|--------------------|-----------------------|
| 5401         | 1                 | PUMP CHARGE                        | 495                | 1085 <sup>00</sup>    |
| 5406         | 15 mi             | MILEAGE                            | 495                | 63 <sup>00</sup>      |
| 5402         | 803'              | Casing footage                     |                    | NK                    |
| 5407         | Minimum           | Ten Miles                          | 558                | 368 <sup>00</sup>     |
| 1124         | 98 sks            | 50/50 Poz Mix Cement               | 1127 <sup>00</sup> | ✓                     |
| 1188         | 265 <sup>#</sup>  | Premium Gel                        | 58 <sup>30</sup>   | ✓                     |
| 1107         | 25 <sup>#</sup>   | Flo Seal                           | 61 <sup>75</sup>   | ✓                     |
|              |                   | Material less 30%                  | 1247 <sup>05</sup> | ✓                     |
|              |                   | Total                              | -374 <sup>11</sup> | ✓                     |
| 4462         | 1                 | 2 1/2 Rubber plug                  |                    | 872 <sup>94</sup>     |
|              |                   |                                    |                    | 29 <sup>50</sup>      |
|              |                   |                                    | 2858 <sup>45</sup> |                       |
|              |                   | 7.65%                              | SALES TAX          | 69.04 <sup>00</sup>   |
|              |                   |                                    | ESTIMATED TOTAL    | 2487.40 <sup>00</sup> |

Revin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this fo

# HUGHES DRILLING REPORT

Well No. I-4  
 Farm N. McMiller  
 SURFACE CASING  
 Size 7"  
 Feet 30'  
 Circulated 13 ex cement

PERMANENT CSG.  
 Size 2 1/8 8rd 606 (New)  
 Feet 802.60 of pipe  
 Baffle at 774.75' float shoe on Bottom

T. D. at Completion 815'  
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

| STRATA THICKNESS | FORMATION DRILLED | T.D. |
|------------------|-------------------|------|
| 3                | Soil              | 3    |
| 22               | clay              | 25   |
| 15               | shale             | 40   |
| 23               | lime              | 63   |
| 7                | shale             | 70   |
| 10               | lime              | 80   |
| 8                | shale             | 88   |
| 17               | lime              | 105  |
| 34               | shale             | 139  |
| 27               | lime              | 176  |
| 14               | shale             | 190  |
| 3                | lime              | 193  |
| 45               | shale             | 238  |
| 22               | lime              | 260  |
| 20               | shale             | 280  |
| 5                | lime              | 285  |
| 28               | shale             | 313  |
| 11               | lime              | 324  |
| 6                | shale             | 330  |
| 1                | lime              | 331  |
| 16               | shale             | 347  |
| 30'              | 24' lime          | 371  |
| 8                | shale             | 379  |
| 20'              | 24' lime          | 403  |
| 5                | shale             | 408  |
| 2                | lime              | 410  |
| 3                | shale             | 413  |
| "Hertha"         | 6' lime           | 419  |
| 144              | shale             | 568  |
| 2                | lime              | 570  |
| 5                | shale             | 575  |
| "W-side"         | 6' Gr. sand       | 584  |
| 7                | shale             | 588  |
| 9                | lime              | 597  |
| 10               | shale             | 607  |
| 6                | lime              | 613  |
| 6                | shale             | 619  |
| 3                | lime              | 627  |
| 11               | shale             | 639  |
| 3                | lime              | 642  |
| 8                | shale             | 650  |

| DATE   | DRILLED |     | REMARKS -- TYPE WORK -- BILLING REF. | PIPE TALLY        |
|--------|---------|-----|--------------------------------------|-------------------|
|        | FROM    | TO  |                                      |                   |
| 8/6/14 | 0       | 3   | Soil                                 | (1) 21.5 - 21.5   |
| 30'    | 3       | 25  | clay                                 | (2) 22.5 - 44.0   |
| 8/7/14 | 25      | 40  | shale                                | (3) 22.5 - 66.5   |
| 5 1/2' | 40      | 63  | lime                                 | (4) 22.5 - 89.0   |
| PDC    | 63      | 70  | shale (slate 63-64)                  | (5) 22.5 - 111.5  |
| Bit    | 70      | 80  | lime                                 | (6) 22.5 - 134.0  |
|        | 80      | 88  | shale                                | (7) 22.5 - 156.5  |
|        | 88      | 105 | lime                                 | (8) 22.5 - 179.0  |
|        | 105     | 139 | shale (slate 115-127)                | (9) 22.5 - 201.5  |
|        | 139     | 176 | lime                                 | (10) 22.5 - 229.0 |
|        | 176     | 190 | shale                                | (11) 22.5 - 246.5 |
|        | 190     | 193 | lime                                 | (12) 22.5 - 269.0 |
|        | 193     | 238 | shale                                | (13) 22.5 - 291.5 |
|        | 238     | 260 | lime                                 | (14) 22.5 - 314.0 |
|        | 260     | 280 | shale                                | (15) 22.5 - 336.5 |
|        | 280     | 285 | lime                                 | (16) 22.5 - 359.0 |
|        | 285     | 313 | shale                                | (17) 22.5 - 381.5 |
|        | 313     | 324 | lime                                 | (18) 22.5 - 404.0 |
|        | 324     | 330 | shale                                | (19) 22.5 - 426.5 |
|        | 330     | 331 | lime                                 | (20) 22.5 - 449.0 |
|        | 331     | 347 | shale                                | (21) 22.5 - 471.5 |
| 30'    | 347     | 371 | lime                                 | (22) 22.5 - 494.0 |
|        | 371     | 379 | shale (slate 371-372)                | (23) 22.5 - 516.5 |
| 20'    | 379     | 403 | lime                                 | (24) 22.5 - 539.0 |
|        | 403     | 408 | shale (slate 403-404)                | (25) 22.5 - 561.5 |
|        | 408     | 410 | lime                                 | (26) 22.5 - 584.0 |
|        | 410     | 413 | shale                                | (27) 22.5 - 606.5 |

# HUGHES DRILLING REPORT

Well No. I-4 Size.....  
 Farm N. Muntlen Feet.....  
 Circulated \_\_\_\_\_ sx cement

PERMANENT CSG.  
 Size 2 7/8 Bnd EYE (New)  
 Feet 802.60 of pipe  
 Bottle at 774.75 float shoe on Bottom

OPERATOR Hughes Drilling

T. D. at Completion 815  
 Contractor HUGHES DRILLING CO.

| STRATA THICKNESS | FORMATION DRILLED | T.D. |
|------------------|-------------------|------|
| 8                | LIME              | 658  |
| 3                | Shale             | 671  |
| 2                | LIME              | 673  |
| 6                | Shale             | 679  |
| 1                | sdly shale        | 680  |
| 11               | sand              | 691  |
| 8                | Bl sand           | 699  |
| 35               | Shale             | 734  |
| 1                | Lime              | 735  |
| 10               | Sand              | 745  |
|                  | Shale             | 815  |
|                  |                   | T.D. |

| DATE        | DRILLED |      | REMARKS - TYPE WORK - BILLING REF.                | PIPE TALLY      |
|-------------|---------|------|---|-----------------|
|             | FROM    | TO   |   |                 |
| "Hertha"    | 413     | 419  | Lime  | (28) 22.5-629.0 |
|             | 419     | 568  | Shale (BRKN 422-426) (sdy 462-482) (BRKN 531-537) |                 |
|             | 568     | 570  | Lime (BRKN)                                       | (29) 22.5-651.5 |
|             | 570     | 575  | Shale   | (30) 22.5-674.0 |
| "W-side"    | 575     | 581  | Gray sand (Hard 578-579) (Bleeding oil)           |                 |
|             | 581     | 588  | Shale   | (31) 22.5-696.5 |
|             | 588     | 597  | Lime  | (32) 22.5-719.0 |
|             | 597     | 607  | Shale   | (33) 22.5-741.5 |
|             | 607     | 613  | Lime  | (34) 22.5-764.0 |
|             | 613     | 619  | Shale   | (35) 22.5-786.5 |
|             | 619     | 627  | Lime (BRKN)                                       | (36) 22.5-809.0 |
|             | 627     | 639  | Shale   |                 |
|             | 639     | 642  | Lime (Brown)                                      |                 |
|             | 642     | 650  | Shale (slate 642-643)                             |                 |
|             | 650     | 658  | Lime  |                 |
|             | 658     | 671  | Shale   |                 |
|             | 671     | 673  | Lime (BRKN)                                       |                 |
|             | 673     | 679  | Shale   |                 |
|             | 679     | 680  | Sandy shale                                       |                 |
| #2 Squ (12) | 680     | 691  | Sand (Remarks pg 3)                               |                 |
|             | 691     | 699  | Black sand (Remarks pg 3)                         |                 |
|             | 699     | 734  | Shale (Lime Break 725) (Lime Break 734)           |                 |
|             | 734     | 735  | Lime  |                 |
| #2 Squ (12) | 735     | 745  | Sand (Remarks pg 4)                               |                 |
| 785         | 745     | 815  | Shale (Lime Break 766)                            |                 |
| 8-8-14      |         | T.D. |   |                 |

8-8-14 set 802.60 of 2 7/8 Bnd EYE (New)  
 Bottle at 774.75 float shoe on Bottom  
 Used 3 centralizers

753

# HUGHES DRILLING CO.

Wellsville, Kansas 66092

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

CORE TIME

Boon Clay 913-883-4656  
913-883-4383

LEASE N. McMillen #I-4

FORMATION #1 squirrel

DATE: 8/7/14

(~~chip~~ chip sample)

|   | FROM | FEET TO | TIME | MINUTES | REMARKS                                   |
|---|------|---------|------|---------|---|
| ① | 679  | 680     | -    |         | sand very lamin. w/shale (bleeding)       |
| ② | 680  | 681     | -    |         | sand slightly lamin. w/shale (bleeding)   |
| ③ | 681  | 682     | }    |         | solid sand (exc. bleeding)                |
| ④ | 682  | 683     |      |         |   |
| ⑤ | 683  | 684     |      |         |   |
| ⑥ | 684  | 685     |      |         | 681-685                                   |
| ⑦ | 685  | 686     | }    |         | sand slightly lamin. w/shale (exc. bleed) |
| ⑧ | 686  | 687     |      |         |   |
| ⑨ | 687  | 688     | }    |         | solid sand (exc. bleed)                   |
| ⑩ | 688  | 689     |      |         |   |
| ⑪ | 689  | 690     | }    |         | sand slightly lamin. w/shale (bleedin)    |
| ⑫ | 690  | 691     |      |         |   |
| ⑬ | 691  | 692     | }    |         | black <del>sand</del> sand (some bleed)   |
| ⑭ | 692  | 693     |      |         |   |
| ⑮ | 693  | 694     | }    |         | black <del>sand</del> sand                |
| ⑯ | 694  | 695     |      |         |   |
| ⑰ | 695  | 696     | }    |         | slightly lamin. w/shale (little bleed)    |
| ⑱ | 696  | 697     |      |         |   |
| ⑲ | 697  | 698     | }    |         | black sand                                |
| ⑳ | 698  | 699     |      |         |   |
| ㉑ | 699  | 700     | -    |         | shale                                     |

(Best Perf Zone)  
680-689  
DBH, CCH

# HUGHES DRILLING CO.

Wellsville, Kansas 66092

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

Ron 913-883-4655  
Clay 913-883-4383

CORE TIME  
LEASE N. McMillen #1-4  
FORMATION #2 squirrel  
DATE: \_\_\_\_\_

~~chip~~ chip sample

| FROM | FEET TO | TIME                           | MINUTES | REMARKS                                 |
|------|---------|--------------------------------|---------|---|
| 734  | 735     | - lime                         |         |   |
| 735  | 736     | - solid LT. Brown sand         |         | (bleeding)                              |
| 736  | 737     | } solid sand                   |         | (exc. bleeding)                         |
| 737  | 738     |                                |         |   |
| 738  | 739     |                                |         |   |
| 739  | 740     |                                |         |   |
| 740  | 741     | - sand slightly lamin. w/shale |         | (exc. bleed)                            |
| 741  | 742     | - solid sand                   |         | (exc. bleed)                            |
| 742  | 743     | } sand very lamin. w/shale     |         | (some bleed)                            |
| 743  | 744     |                                |         |   |
| 744  | 745     |                                |         |   |
| 745  | 746     | } shale                        |         | (Best Perf Zone)<br>736-742<br>DAH, CCH |
| 746  | 747     |                                |         |   |
| 747  | 748     |                                |         |   |