

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 5682  
Name: Hughes Drilling Co.  
Address: 122 N. Main  
City/State/Zip: Wellsville, Ks. 66092  
Purchaser: CMT  
Operator Contact Person: Carl (Clay) Hughes  
Phone: ( 785 ) 883-2235  
Contractor: Name: company tools  
License: 5682

Wellsite Geologist: none

Designate Type of Completion:

☒ New Well ☐ Re-Entry ☐ Workover  
☒ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd.  
☐ Gas ☐ ENHR ☐ SIGW  
☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

☐ Deepening ☐ Re-perf. ☐ Conv. to Enhr./SWD

☐ Plug Back ☐ Plug Back Total Depth

☐ Commingled ☐ Docket No. \_\_\_\_\_

☐ Dual Completion ☐ Docket No. \_\_\_\_\_

☐ Other (SWD or Enhr.?) ☐ Docket No. \_\_\_\_\_

3/30/05 4/4/05 6/20/05

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 059-25048-00-00

County: Franklin

SW NE NW NE Sec. 11 Twp. 16 S. R. 20 ☒ East ☐ West

4600 4702 feet from (S) / N (circle one) Line of Section

1695 1730 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE ☒ NW SW

Lease Name: South McMillen Well #: 8

Field Name: Le Loup

Producing Formation: Squirrel

Elevation: Ground: na Kelly Bushing: \_\_\_\_\_

Total Depth: 807 Plug Back Total Depth: 798

Amount of Surface Pipe Set and Cemented at 25.70 Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 798

feet depth to surface w/ 122 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls

Dewatering method used \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License 11/12/2003

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ East ☐ West ☐

County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Carl C. Hughes

Title: partner Date: 11/10/06

Subscribed and sworn to before me this 10th day of January

20 06

Notary Public: Brenda F. Vickers

Date Commission Expires: 12-03-09

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No

Letter of Confidentiality Received

If Denied, Yes ☐ Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution



KCC

Operator Name: Hughes Drilling Co. Lease Name: South McMillen Well #: 8  
 Sec. 11 Twp. 16 S. R. 20 ☒ East ☐ West County: Franklin

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☒ No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☒ Yes ☐ No

Electric Log Run ☒ Yes ☐ No  
 (Submit Copy)

List All E. Logs Run:

**Gamma Ray- Neutron**

☐ Log Formation (Top), Depth and Datum ☒ Sample

Name Top Datum

Hertha 430-436  
 1st Squirrel 703-712  
 2nd Squirrel 758-768

### 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           | 11 5/8            | 7                         | 15                | 25.70         | portland       | 7            |                            |
| production        | 5 5/8             | 2 7/8                     | 7                 | 798           | 50/50 pozmix   | 122          | 2% gel                     |
|                   |                   |                           |                   |               |                |              |                            |

### ADDITIONAL CEMENTING / SQUEEZE RECORD

| Purpose:           | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
|--------------------|------------------|----------------|-------------|----------------------------|
| ___ Perforate      |                  |                |             |                            |
| ___ Protect Casing |                  |                |             |                            |
| ___ Plug Back TD   |                  |                |             |                            |
| ___ Plug Off Zone  |                  |                |             |                            |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br>(Amount and Kind of Material Used) | Depth   |
|----------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|
| 3              | 2" DML-RTG 31 Perfs 759-769                                                               | fracture-5500# of sand                                                            | 759-769 |
|                |                                                                                           |                                                                                   |         |
|                |                                                                                           |                                                                                   |         |
|                |                                                                                           |                                                                                   |         |

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| TUBING RECORD | Size | Set At | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|---------------|------|--------|-----------|-------------------------------------------------------------------------------|
|---------------|------|--------|-----------|-------------------------------------------------------------------------------|

Date of First, Resumed Production, SWD or Enhr. 6/21/05 Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
|                                   | 2         | trace   | 1/2         |               |         |

Disposition of Gas

METHOD OF COMPLETION

Production Interval

☐ Vented ☐ Sold ☐ Used on Lease  
 (If vented, Submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled  
☐ Other (Specify)

KANSAS CORPORATION COMMISSION  
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Phone: (785) 883-2235  
Contractor: Name: company tools  
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Wellsite Geologist: none  
Designate Type of Completion:  
☒ New Well ☐ Re-Entry ☐ Workover  
☒ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd.  
☐ Gas ☐ ENHR ☐ SIGW  
☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)  
If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
☐ Deepening ☐ Re-perf. ☐ Conv. to Enhr./SWD  
☐ Plug Back ☐ Plug Back Total Depth  
☐ Commingled ☐ Docket No. \_\_\_\_\_  
☐ Dual Completion ☐ Docket No. \_\_\_\_\_  
☐ Other (SWD or Enhr.?) ☐ Docket No. \_\_\_\_\_  
3/30/05      4/4/05      6/20/05  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date           Recompletion Date

API No. 15 - 059-25048-DD-00  
County: Franklin  
SW NE NW NE Sec. 11 Twp. 16 S. R. 20 ☒ East ☐ West  
4680 feet from (S) / N (circle one) Line of Section  
1695 feet from (E) / W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE ☒ NW SW  
Lease Name: South McMillen Well #: 8  
Field Name: Le Loup  
Producing Formation: Squirrel  
Elevation: Ground: na Kelly Bushing: \_\_\_\_\_  
Total Depth: 807 Plug Back Total Depth: 798  
Amount of Surface Pipe Set and Cemented at 25.70 Feet  
Multiple Stage Cementing Collar Used? ☐ Yes ☒ No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 798  
feet depth to surface w/ 122 sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ East ☐ West ☐  
County: \_\_\_\_\_ Docket No. \_\_\_\_\_

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All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Carl C. Hughes  
Title: partner Date: 1/12/06  
Subscribed and sworn to before me this 10<sup>th</sup> day of January,  
20 06.  
Notary Public: Brenda F. Vickers  
Date Commission Expires: 12-03-09



**KCC Office Use ONLY**

NO

Letter of Confidentiality Received

If Denied, Yes ☐ Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

COPY

Operator Name: Hughes Drilling Co. Lease Name: South McMillen Well #: 8  
 Sec. 11 Twp. 16 S. R. 20 ☒ East ☐ West County: Franklin

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☒ No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☒ Yes ☐ No

Electric Log Run ☒ Yes ☐ No  
 (Submit Copy)

List All E. Logs Run:

**Gamma Ray- Neutron**

☐ Log Formation (Top), Depth and Datum ☒ Sample

Name Top Datum

Hertha 430-436

1st Squirrel 703-712

2nd Squirrel 758-768

**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           | 11 5/8            | 7                         | 15                | 25.70         | portland       | 7            |                            |
| production        | 5 5/8             | 2 7/8                     | 7                 | 798           | 50/50 pozmi    | 122          | 2% gel                     |
|                   |                   |                           |                   |               |                |              |                            |

**ADDITIONAL CEMENTING / SQUEEZE RECORD**

| Purpose:           | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
|--------------------|------------------|----------------|-------------|----------------------------|
| ___ Perforate      |                  |                |             |                            |
| ___ Protect Casing |                  |                |             |                            |
| ___ Plug Back TD   |                  |                |             |                            |
| ___ Plug Off Zone  |                  |                |             |                            |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br>(Amount and Kind of Material Used) | Depth   |
|----------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|
| 3              | 2" DML-RTG 31 Perfs 759-769                                                               | fracture-5500# of sand                                                            | 759-769 |
|                |                                                                                           |                                                                                   |         |
|                |                                                                                           |                                                                                   |         |
|                |                                                                                           |                                                                                   |         |

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| TUBING RECORD | Size | Set At | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|---------------|------|--------|-----------|-------------------------------------------------------------------------------|
|---------------|------|--------|-----------|-------------------------------------------------------------------------------|

|                                                              |                                                                                                                                                                             |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of First, Resumer's Production, SWD or Enhr.<br>6/21/05 | Producing Method<br><input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) |
| Estimated Production Per 24 Hours<br>2                       | Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity<br>trace 1/2                                                                                                            |

Disposition of Gas

METHOD OF COMPLETION

Production Interval

☐ Vented ☐ Sold ☐ Used on Lease  
 (If vented, Submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled  
☐ Other (Specify)

Op. - Hughes Drilling Co

# HUGHES DRILLING REPORT

SET IN PIPE

PERMANENT CSG.

TUBING

Well No. **#8** Size **7'** (7 5/8" Size) Size  
 Farm **South McMillen** Feet **25.70** (Cement) Feet Feet  
 Water Streak @ Cond. **good** Cond. Cond.  
 Water Level @ Top Sand T. D. at Completion **807**  
 Approved \_\_\_\_\_ Contractor **HUGHES DRILLING CO.**  
 Superintendent

4688 FSL  
 1695 FSL  
 S. 11, Twp 16, R. 20E  
 FORMATION DRILLED  
 API # 15-059-25048

| STRATA THICKNESS | FORMATION | FEET |
|------------------|-----------|------|
| 3                | soil      | 3    |
| 36               | clay      | 39   |
| 14               | shale     | 53   |
| 29               | lime      | 82   |
| 6                | shale     | 88   |
| 11               | lime      | 99   |
| 6                | shale     | 105  |
| 16               | lime      | 121  |
| 35               | shale     | 156  |
| 26               | lime      | 182  |
| 4                | shale     | 186  |
| 5                | sand      | 191  |
| 65               | shale     | 256  |
| 23               | lime      | 279  |
| 15               | shale     | 294  |
| 7                | lime      | 301  |
| 27               | shale     | 328  |
| 12               | lime      | 340  |
| 24               | shale     | 364  |
| 25               | lime      | 389  |
| 8                | shale     | 397  |
| 23               | lime      | 420  |
| 4                | shale     | 424  |
| 4                | lime      | 428  |
| 2                | shale     | 430  |
| 6                | lime      | 436  |
| 162              | shale     | 598  |
| 3                | sand      | 601  |
| 9                | shale     | 610  |
| 9                | lime      | 619  |
| 10               | shale     | 629  |
| 4                | lime      | 633  |
| 7                | shale     | 640  |
| 7                | lime      | 647  |
| 15               | shale     | 662  |
| 4                | lime      | 666  |
| 9                | shale     | 675  |
| 7                | lime      | 682  |
| 9                | shale     | 691  |
| 5                | lime      | 696  |
| 7                | shale     | 703  |

| DATE        | HOURS OF TOUR | DRILLED |     | REMARKS - TYPE WORK - BILLING REF. | PIPE TALLY   |
|-------------|---------------|---------|-----|------------------------------------|--------------|
|             |               | FROM    | TO  |                                    |              |
| 1/30/05     |               | 0       | 3   | soil                               | ① 21.0-21.0  |
| 25'         |               | 3       | 39  | clay                               | ② 22.5-42.5  |
| 1/31/05     |               | 39      | 53  | shale                              | ③ 23.5-66.0  |
| 1/2" Button |               | 53      | 82  | lime                               | ④ 22.5-88.5  |
|             |               | 82      | 88  | shale (slate 86-88)                | ⑤ 32.5-111.0 |
|             |               | 88      | 99  | lime                               | ⑥ 22.5-133.5 |
|             |               | 99      | 105 | shale                              | ⑦ 22.5-156.0 |
|             |               | 105     | 121 | lime                               | ⑧ 22.5-178.5 |
|             |               | 121     | 156 | shale                              | ⑨ 22.5-201.0 |
|             |               | 156     | 182 | lime                               | ⑩ 22.5-223.5 |
|             |               | 182     | 186 | shale                              | ⑪ 22.5-246.0 |
|             |               | 186     | 191 | sand                               | ⑫ 22.5-268.5 |
|             |               | 191     | 256 | shale                              | ⑬ 22.5-291.0 |
|             |               | 256     | 279 | lime                               | ⑭ 22.5-313.5 |
|             |               | 279     | 294 | shale                              | ⑮ 22.5-336.0 |
|             |               | 294     | 301 | lime                               | ⑯ 22.5-358.5 |
|             |               | 301     | 328 | shale                              | ⑰ 22.5-381.0 |
|             |               | 328     | 340 | lime                               | ⑱ 22.5-403.5 |
|             |               | 340     | 365 | shale                              | ⑲ 22.5-426.0 |
| 30'         |               | 365     | 389 | lime                               | ⑳ 22.5-448.5 |
|             |               | 389     | 397 | shale (slate 395-396)              | ㉑ 22.5-471.0 |
| 20'         |               | 397     | 420 | lime                               | ㉒ 22.5-493.5 |
|             |               | 420     | 424 | shale (slate 423-424)              | ㉓ 22.5-516.0 |
| 124'        |               | 424     | 428 | lime                               | ㉔ 22.5-538.5 |
| 1/1/05      |               | 428     | 430 | shale                              | ㉕ 22.5-561.0 |
| "Heath"     |               | 430     | 436 | lime                               | ㉖ 22.5-583.5 |
| 60.1" B.P.  |               | 436     | 598 | shale (Bnk 439-442) (Bnk 561-565)  |              |

1/30/05 - set 25.70' of 7" surface pipe  
 circulated 7 sacks cement to surface

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# HUGHES DRILLING REPORT

Well No. **# 8**      **SET IN PIPE**      **PERMANENT CSG.**      **TUBING**

Size..... Size.....

Feet..... Feet.....

Cond..... Cond.....

T. D. at Completion **807**

Contractor **HUGHES DRILLING CO.**

Water Streak @ ..... Cond.....

Water Level @ ..... Top Sand .....

Approved .....

## FORMATION DRILLED

| STRA TA THICKNESS | FORMATION DRILLED | T. D. |
|-------------------|-------------------|-------|
| #1 sq. 9          | Oil Sand          | 712   |
| 9                 | sd. shale         | 721   |
| 27                | shale             | 748   |
| 1                 | lime              | 749   |
| 6                 | shale             | 755   |
| 1                 | lime              | 756   |
| 2                 | shale             | 758   |
| #2 sq. 10         | Oil Sand          | 768   |
| 39                | shale             | 807   |
|                   |                   | T.D.  |

| DATE        | HOURS OF TOUR | DEELED |     | REMARKS - TYPE WORK - BILLING REF. | PIPE TALLY      |
|-------------|---------------|--------|-----|------------------------------------|-----------------|
|             |               | FROM   | TO  |                                    |                 |
| "wayside"   |               | 598    | 601 | Sand (Some Bleeding oil)           | (27) 22.5-606.0 |
|             |               | 601    | 610 | shale                              | (28) 22.5-628.5 |
|             |               | 610    | 619 | lime                               | (29) 22.5-651.0 |
|             |               | 619    | 629 | shale                              | (30) 22.5-673.5 |
|             |               | 629    | 633 | lime                               | (31) 22.5-696.0 |
|             |               | 633    | 640 | shale                              | (32) 22.5-718.5 |
|             |               | 640    | 647 | lime                               | (33) 22.5-741.0 |
|             |               | 647    | 662 | shale                              | (34) 22.5-763.5 |
|             |               | 662    | 666 | lime (Brown)                       | (35) 22.5-786.0 |
|             |               | 666    | 675 | shale                              |                 |
|             |               | 675    | 682 | lime                               |                 |
|             |               | 682    | 691 | shale                              |                 |
|             |               | 691    | 696 | lime (oil show)                    |                 |
|             |               | 696    | 703 | shale                              |                 |
| #1 Squirrel |               | 703    | 712 | Oil Sand (core time pg 3)          |                 |
|             |               | 712    | 721 | sd. shale                          |                 |
| 4/105       |               | 721    | 748 | shale                              |                 |
|             |               | 748    | 749 | lime                               |                 |
|             |               | 749    | 755 | shale                              |                 |
|             |               | 755    | 756 | lime                               |                 |
|             |               | 756    | 758 | shale                              |                 |
| #2 Squirrel |               | 758    | 768 | Oil Sand (Remarks pg 4)            |                 |
|             |               | 768    | 807 | shale                              |                 |
|             |               |        |     | T.D.                               |                 |
| 4/1105      |               |        |     | Set 798' of 2 7/8" 8rd up set pipe |                 |
|             |               |        |     | used 3 centralizers                |                 |

START CORE 704'

110 7

7-JTS left

Bolt in Bottom

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# HUGHES DRILLING CO.

Wellsville, Kansas 66092

(Pg 3)

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

CORE TIME

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

LEASE S. Mcmillen #8

FORMATION 1<sup>st</sup> Squirrel

DATE: 4-1-05

(RPM 3" Core (3<sup>rd</sup> well))

| FROM    | FEET TO | TIME            | MINUTES | REMARKS                                                             |
|---------|---------|-----------------|---------|---------------------------------------------------------------------|
| 703     | 704     | Chip Sample     | —       | Sand lamin w/shale (Bleeding 0.1)                                   |
| 1) 704  | 705     | 3:03:00-3:04:15 | 1:15    | } Shale 704-705.5                                                   |
| 2) 705  | 706     | 3:04:15-3:05:45 | 1:30    |                                                                     |
| 3) 706  | 707     | 3:05:45-3:07:15 | 1:30    | } Solid Sand 705.5-707 (Bo.)                                        |
| 4) 707  | 708     | 3:07:15-3:11:00 | 3:45    |                                                                     |
| 5) 708  | 709     | 3:11:00-3:13:30 | 2:30    | } Sdy Line (No Oil)<br>707-708.5                                    |
| 6) 709  | 710     | 3:13:30-3:15:00 | 1:30    |                                                                     |
| 7) 710  | 711     | 3:15:00-3:16:15 | 1:15    | } 708.5-710.5 (Some Bleeding,<br>sand very lamin. w/shale           |
| 8) 711  | 712     | 3:16:15-3:17:30 | 1:15    |                                                                     |
| 9) 712  | 713     | 3:17:30-3:18:45 | 1:15    | } Solid Sand 710.5-712 (Bo.)                                        |
| 10) 713 | 714     | 3:18:45-3:20:15 | 1:30    |                                                                     |
| 11) 714 | 715     | 3:20:15-3:21:45 | 1:30    | } Fifth Gear<br>Sdy shale                                           |
| 12) 715 | 716     | 3:21:45-3:23:00 | 1:15    |                                                                     |
| 13) 716 | 717     | 3:23:00-3:23:45 | :45     | } Thin strips of<br>sand all thru this<br>section (little bleeding) |
| 14) 717 | 718     | 3:23:45-3:24:45 | 1:00    |                                                                     |
| 15) 718 | 719     | 3:24:45-3:25:45 | 1:00    | } Shale                                                             |
| 16) 719 | 720     | 3:25:45-3:27:00 | 1:15    |                                                                     |
| 17) 720 | 721     | 3:27:00-3:28:00 | 1:00    | } (Best Perf Zone)<br>705.5-712                                     |
| 18) 721 | 722     | 3:28:00-3:29:00 | 1:00    |                                                                     |
| 19) 722 | 723     | 3:29:00-3:30:15 | 1:15    | } CAH                                                               |
| 20) 723 | 724     | 3:30:15-3:31:30 | 1:15    |                                                                     |

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KCC WICHITA

Py. 4

chip sample  
(RPM \_\_\_\_\_)

| FROM | FEET TO | TIME        | MINUTES | REMARKS                                                |
|------|---------|-------------|---------|--------------------------------------------------------|
| 748  | 749     | chip Sample | -       | Lime                                                   |
| 749  | 755     | "           | -       | Shale                                                  |
| 755  | 756     | "           | -       | Lime                                                   |
| 756  | 757     | "           | -       | } Shale                                                |
| 757  | 758     | "           | -       |                                                        |
| 758  | 759     | "           | -       | } 758-764<br>Solid Sand<br>(Good Bleeding Oil)         |
| 759  | 760     | "           | -       |                                                        |
| 760  | 761     | "           | -       |                                                        |
| 761  | 762     | "           | -       |                                                        |
| 762  | 763     | "           | -       | } 764-768<br>Sand very laminar w/shale<br>Bleeding Oil |
| 763  | 764     | "           | -       |                                                        |
| 764  | 765     | "           | -       | }                                                      |
| 765  | 766     | "           | -       |                                                        |
| 766  | 767     | "           | -       | }                                                      |
| 767  | 768     | "           | -       |                                                        |
| 768  | 769     | "           | -       | } SHALE                                                |
| 769  | 770     | "           | -       |                                                        |
|      |         |             |         | RECEIVED<br>JAN 12 2003<br>KCC WICHITA                 |
|      |         |             |         | (Best Perf zone)<br>758-768<br>CCH                     |