



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., 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       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

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

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ 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 #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that 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.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

|   |   |
|---|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(If no, Submit Copy)</i><br><br>List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>Name Top Datum |
|---|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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 |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD  |                  |                |              |                            |
|--|------------------|----------------|--------------|----------------------------|
| Purpose:   | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| _____ Perforate<br>_____ Protect Casing<br>_____ Plug Back TD<br>_____ 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><i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

|                                   |           |         |             |               |         |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|

|   |  |  |
|---|--|--|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____<br><i>(Submit ACO-4)</i> | PRODUCTION INTERVAL:<br>_____<br>_____ |
|---|--|--|

Max R. Lovely

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Raymond Oil Co.**  
 LEASE **Holstein #1**  
 FIELD **Wildcat**  
 LOCATION **NE NE SW NW**  
 SEC. **12** TWSP. **20** RGE. **36W**  
 COUNTY **Wichita** STATE **KS**

ELEVATIONS  
 KB **3204**  
 DF  
 GL **3195**  
 Measurements Are All  
 From **KB**

CONTRACTOR **Tomcat #1**  
 DRILL 5-18-2011 COMP 5-31-2011  
 WTL **5183** LTD **5193**  
 LOG UP **3405** TYPE LOG **Chem**

CASING  
 SURFACE **8 5/8 @ 255'**  
 PRODUCTION **4 1/2"**

ELECTRICAL SURVEYS:  
 DI **1 MICRO**  
 N/D

## FORMATION TOPS AND STRUCTURAL POSITION

| FORMATION      | SAMPLE TOP | ELECTRIC LOG TOP | SUB-SEA DATUM | STRUCTURAL POSITION |       |   |
|----------------|------------|------------------|---------------|---------------------|-------|---|
|                |            |                  |               | A                   | B     | C |
| Base Anhydrite | 2316       |                  |               | 884                 | 879   |   |
| Stoller        | 3535       | 3540             | -336          | -338                | -348  |   |
| Hoebner        | 3950       | 3958             | -754          | -758                | -768  |   |
| Lansing        | 4003       | 4008             | -804          | -809                | -820  |   |
| Stark          | 4312       | 4316             | -1112         | -1121               | -1135 |   |
| Marmaton       | 4503       | 4500             | -1296         | -1315               | -1320 |   |
| Pawnee         | 4584       | 4588             | -1384         | -1398               | -1415 |   |
| Myric Station  | 4613       | 4620             | -1416         | -1434               | -1454 |   |
| Cherokee       | 4663       | 4670             | -1466         | -1487               | -1462 |   |
| Johnson        | 4706       | 4716             | -1512         | -1534               | -1544 |   |
| Morrow Shale   | 4841       | 4842             | -1638         | -1676               | -1690 |   |
| Mississippi    | 4990       | 4966             | -1762         | -1818               | -1852 |   |





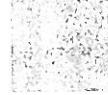

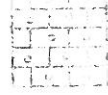
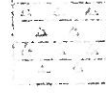
## REFERENCE WELLS FOR STRUCTURE

Texstar Dipman #1 SW NW 12-20-36W  
 Woolsey #1 WR Wells NW NW SW 7-20-35W

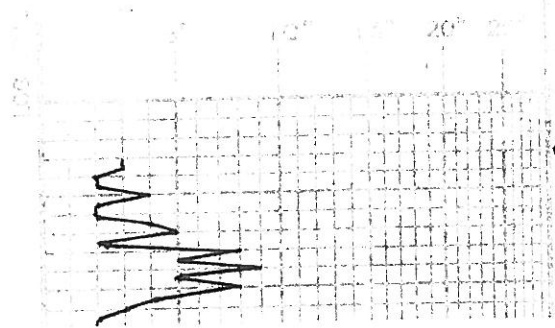


RECOMMENDATIONS AND REMARKS

LEGEND

-   
Sandstone
-   
Siltstone
-   
Shale
-   
Limestone
-   
Gyps. sh.
-   
Brachiopods
-   
Coal Layer
-   
Clay

DIRECTION TIME IN MINUTES  
PER FOOT  
Kerr's Directional Diagram



DEPTH

C DEV 1°

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

LS. WHY, FxTLV, HRD, TITE

SH. G.RY. RED

SH, CRM, LT GR Y

LS, BUFF/WHT, FXTLN, S → M HRD.  
V FOSS, NO APPX. NS

LS, A.A., V LT GR Y, Pos. CONGL

SH, LT GR Y

L6. LT GR Y, FXTLN, S → M HRD.  
FOSS, V P PP XTLN Ø. NS

3500

VIS 46  
WT 8.6  
LCM 3

STOTLER  
3535 -331

LS, TAN, BUFF, F → M XTLN, 'MEALY'  
M. HRD, G. INT. XTLN Ø. NS  
SL FOSS

LS, LT GR Y, FXTLN, M. HRD, BR TL  
SL W CMT' P OOLS, VP Ø. NS

VIS 47  
WT 8.1  
LCM 3

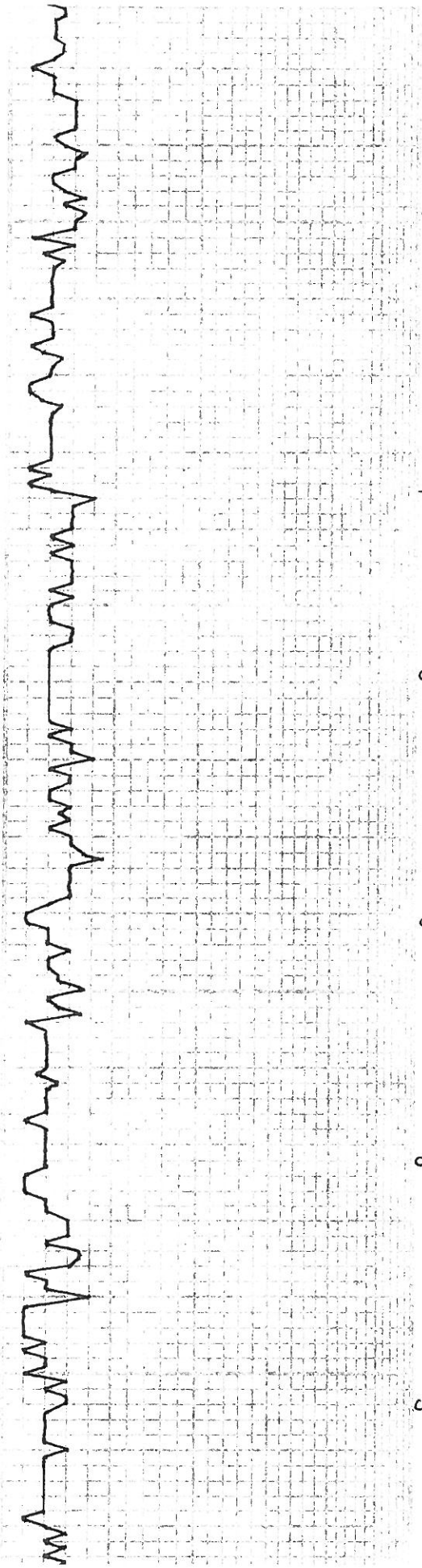
LS, TAN, E → M XTLN, M. HRD, V FOSS  
P XTLN Ø, NS CHLKY

LS, GR Y, A.A.

3600

SH, GR Y

LS, LT GR Y, BLK MINS W/LM,  
LDD P XTLN V FACCE → P



3500

STOTLER  
3535 - 331

3600

LS. LT GRAY, FXTLN, S → M HRD,  
FOSS, VP PPXTLN φ. NS

LS. TAN, BUFF, F → M XTWN, 'MBAU'  
M. HRD, G. INT XTWN φ. NS  
SL FOSS

LS. LT GRAY, FXTLN, M HRD, BRTL  
SL WCMT'P OOLS, VP φ. NS

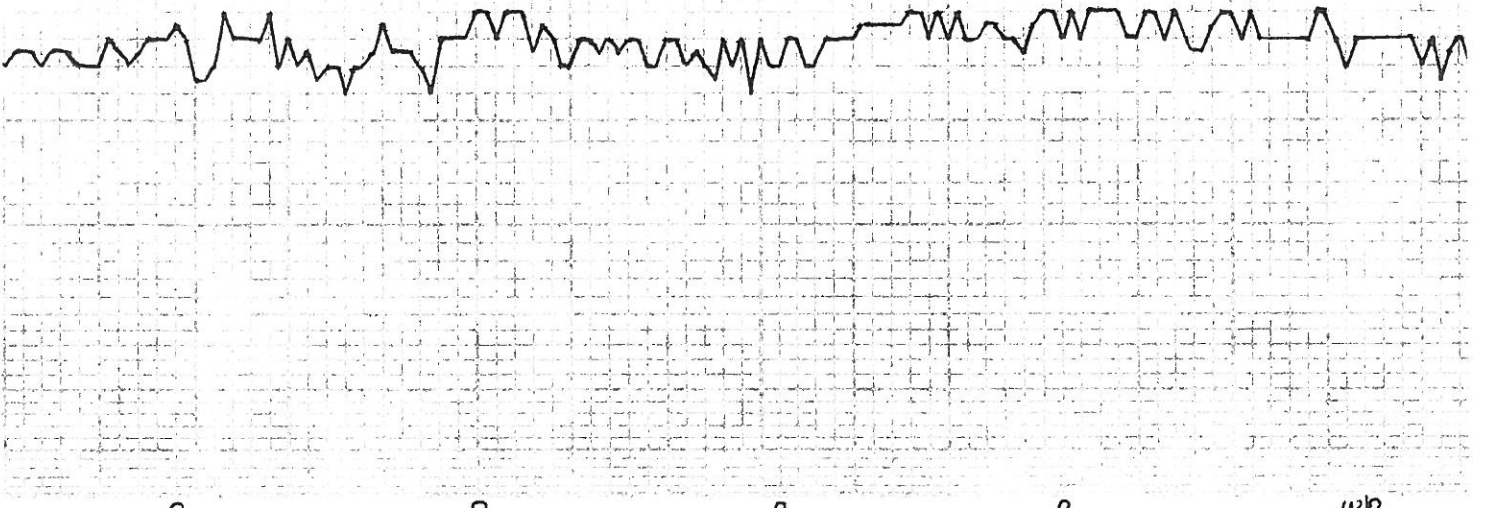
LS, TAN, E → M XTWN, M HRD, V FOSS  
P XTWN φ. NS CHLKY

LS, GRAY, A.A.

SH, GRAY

LS, LT GRAY, BLK MINS W/IN,  
HRD, F → XTWN, V FOSS, F → P  
XTWN φ. NS

LS. WHT, F → M XTWN, SL GRAY  
S → M HRD, SL FOSS, P PPXTLN  
NS



STORER  
3686-482

3700

3800

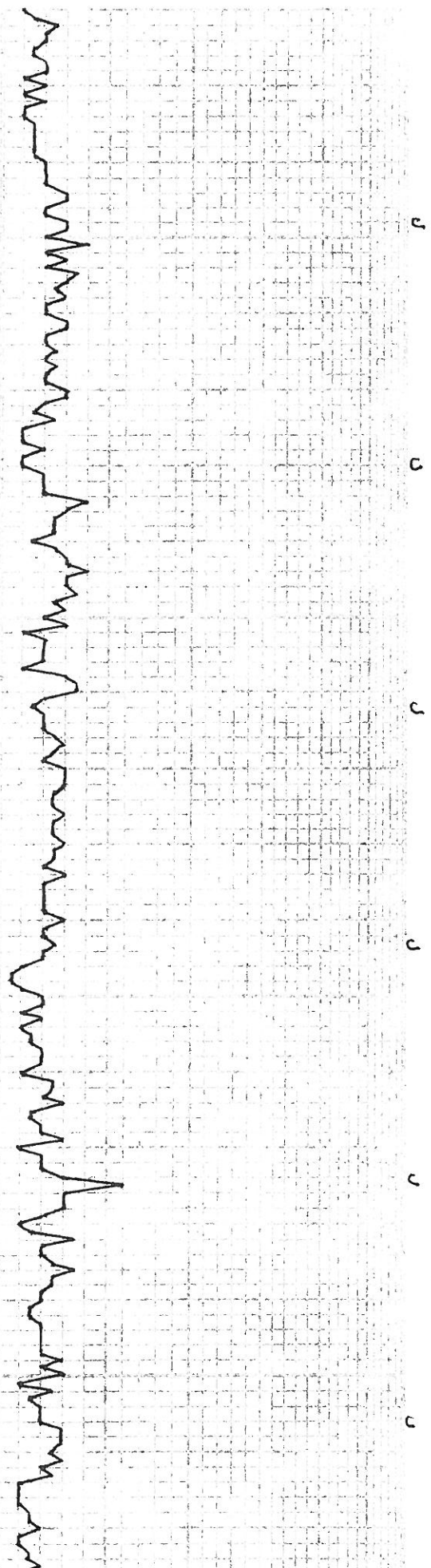
|   |
|---|
| LS, WHT, V F X TLW, HRD, PYR FILL<br>FRACS, NO X TLW Ø, NS    |
| LS, GRN, BUFE, F X TLW, HRD,<br>F X TLW Ø, SL FOSS, NS, CHLKY |
| LS, AA, INDR CHLK   |
| LS, TAN, P M X TLW, V HRD, F G<br>X TLW Ø, V SL FOSS, NS      |
| LS, GRY, BATH, F M X TLW,<br>FOSS, ? FRAC Ø, NS               |
| SLT STW, GRY, LMY   |
| LS, BUFE-TAN, F M X TLW, M HRD,<br>BATH, V FEW FOSS, NS       |
| A. A.   |
| LS, TAN, F X TLW, V FOSS, M HRD<br>? BRN STW, NFD, NO ODR     |
| LS, BRN, V FOSS, SL X TLW, P F<br>FOSS Ø, NS                  |
| SH BLK  |
| LS, BRN, V FOSS, SL X TLW, P F<br>FOSS Ø, NS                  |

VIS 48  
WT 9.0  
LCM 4

7:AM 5-22-11  
DRL @ 3729'

MUD CHECK  
VIS 43, WT 9.3  
CHLOR 8,600, LCM 4  
FLT 9.2

7:AM 5-2  
DRLG



|   |
|---|
| LS, TAN, F → M XTLN, V HRD, F → G<br>XTLN Ø, V SL FOSS, NS                                      |
| LS, GRY, BRTL, F → M XTLN,<br>FOSS, ? FRAC Ø, NS  |
| SLTSTN, GRY, hMY  |
| LS, BUFF-TAN, F → M XTLN, M HRD,<br>BRTL, V FEW FOSS, NS  |
| A. A.   |
| LS, TAN, F XTLN, V FOSS, M HRD<br>? BRN STNG, NFO, NO ODOR                                      |
| LS, BRN, V FOSS, SL XTLN, P → F<br>FOSS Ø, NS   |
| SH, BLK   |
| LS, BRN, V FOSS, SL XTLN, P → F<br>FOSS Ø, NS   |
| A. A.   |
| LS, CRM, V DOL, W CMT'D, S → M<br>HRD, BRTL ON BRK, NO APPP<br>CHT, WHT, V DMS, V FOSS, TITE NS |
| SH, BLK   |
| LS, BUFF, V XTLN, MICRO, V FOSS<br>MICRO FOSS, V HRD, DMS, TITE<br>NS                           |
| A. A.   |

m  
VIS 4  
CHLOI  
FILT

3800

3900



A.A. SL GRYP

LS, BRN, V FOSS, F → M XTLA, FOSS,  
S → M HRD, CHLKY, F XTLN P. NS

HEERWER  
3950 -746

SM, BLK, CARB, SL EMP GRNS

LS, TAN, BUFF, WHT, LG FOSS'S  
CHTY, WHT, HRD, DNS, F XTLN,  
NO APPD, NS

LS, TAN, F XTLN, V FOSS, HRD, PCS  
ROTTEN, SL CHLKY PCS, V SL  
SML VUG Ø, NS

CHT

LANSING  
C 4000

CHT, WHT, GRYP, SL FOSS

4003 -799

LS, CRM, V F XTLN, V FOSS + COMG  
W CMT'P, HRD, DNS, TITE, NS

VIS 47  
WT 9.4  
LCM 3

LS, CRM, V OOL, S → M OOLS,  
P Δ CMT'P, F OOL P. NS

LS, CLR - SL MILKY XTLA

LS, CRM, F XTLN, V ALGAL + FOSS  
P CMT'P, S → M HRD, G FOSS P  
NS

VIS 45  
WT 9.2  
LCM 4

LS, TAN, BUFF, V F XTLN, HRD,  
SCT SML FOSS FRAGS, 3 Ø, NS

CHT, GRYP, WHT, BRN, SL FOSS  
OPAQ, PCS FOSS

LS, BUFF, F XTLN, SL "MEALY",  
GRNLR TEXT, M HRD, FOSS,  
VP → TITE Ø. NS

4100

LS, BUFF, F XTLN, V FOSS, HRD →  
BRTH, SL XTLN Ø, NS

CHT, WHT, TAN, V SL FOSS, OPAQ

LS, BUFF, F XTLN, V FOSS, HRD  
FOSS FRAGS, F → G FOSS P NS  
CHTY

VIS 45  
WT 9.3  
LCM 3

CHLKY

LS, TAN, GRYP, V F XTLN, V DNS  
V HRD, V F FOSS, TITE, NS

LS, ORNG BRN, F → M XTLN, HRD  
VARI SIZE FOSS, SL XTLN Ø,



LANSING  
 c 4000  
 4003 - 799

LS TAN, FXTLN, V FOSS, HRD, PCS  
 ROTTEN, SL CHLKP PCS, V SL  
 SML VUG Ø, NS

CHT

CHT, WHT, GRY, SL FOSS

LS, CRM, V FXTLN, V FOSS + COMG  
 W CMT'D, HRD, DNS, TITE, NS

LS, CRM, V FOOL, S → M DOGS,  
 PA CMT'D, FOOL Ø, NS

LS, CLR - SL MILKY XTL

LS, CRM, FXTLN, V ALGAL + FOSS  
 PCMT'D, S → M HRD, G FOSS Ø, NS

LS, TAN, BUFF, V FXTLN, HRD,  
 SCT SML FOSS FRAGS, ? Ø, NS

CHT, GRY, WHT, BRN, SL FOSS  
 OPAQ, PCS FOSS

LS, BUFF, FXTLN, SL "MEALY",  
 GRNLR TEXT, M HRD, FOSS,  
 VP → TITE Ø, NS

LS, BUFF, FXTLN, V FOSS, HRD →  
 BRTL, SL XTLN Ø, NS

CHT, WHT, TAN, V SL FOSS, OPAQ

4100  
 LS, BUFF, FXTLN, V FOSS, HRD  
 FOSS FRAGS, F → G FOSS Ø, NS  
 CHTY

CHLKP

LS, TAN, GRY, V FXTLN, V DNS  
 V HRD, V F FOSS, TITE, NS

LS, ORNG BRN, F → M XTLN, HRD  
 VARI SIZE FOSS, SL XTLN Ø,  
 SL FOSS Ø, NS

CHT, WHT, OPAQ, MILKY

LS, CRM, FXTLN, SOFT, GRNLR  
 XTLN Ø, NS

CHLKP

LS, WHT, CRM, V FXTLN, S → M HRD  
 NO FOSS, NO APP Ø, NS

C

C

C

C

C

C  
MUNCIE  
CREEK

4200  
4200 - 996

LS, TAN, VF XTLN, DNS, V HRD,  
VF FOSS, TITE, NS

SH, RED

VIS 50  
WT 9.1  
LCMS

LS, TAN, VF XTLN, V DNS, V HRD  
G 00M Ø IN PCS, PCS OOL,  
W CMT'D OOLS, TITE, NS

C

A.A.

LS, BRN, GRY/WHT, FXTLN, HRD  
FRAC'P, 2NDRY PYRITE + CALC  
FILL, NO APP. NS

C

LS, BRN, FXTLN, V OOL + FOSS,  
V HRD, CHT CMT'D, TITE, NS

- 7:AM 5-23-11  
DRLG @ 4247'

LS, CRM / BUFF, FXTLN, S → M, HRD  
V FOSS, FOSS FRAG'S, VARISIZE  
FOSS, SL P XTLN Ø, NS

LS, TAN, FXTLN, SOFT, FOSS W/  
SL OOLS, W CMT'D W/SL TR  
FOSS Ø, NS

C DEV 10

LS, WHT, CRM, BRN, INCR OOLS,  
OOLS W/CHT CMT, TITE, NS  
WBT

- CFS 4281-45"  
MUD CHECK  
VIS 44 WT 9.1  
CHLOR 44,000, LCMG  
FLT 8.4

4300

LS, DK GRY/TAN, VF XTLN,  
V DNS, V HRD, TITE, NS

- CFS 4295-45"

STARKE  
4312 - 1108

SH, THIN ZONE, GRY  
LS, CRM, MIXTLN G RMLRTXT.

S → M HRD, F-G XTLN Ø, NS

- CFS 4325'-45'

LS, WHT GRY, FXTLN, DNS, HRD,  
TITE, NS

F

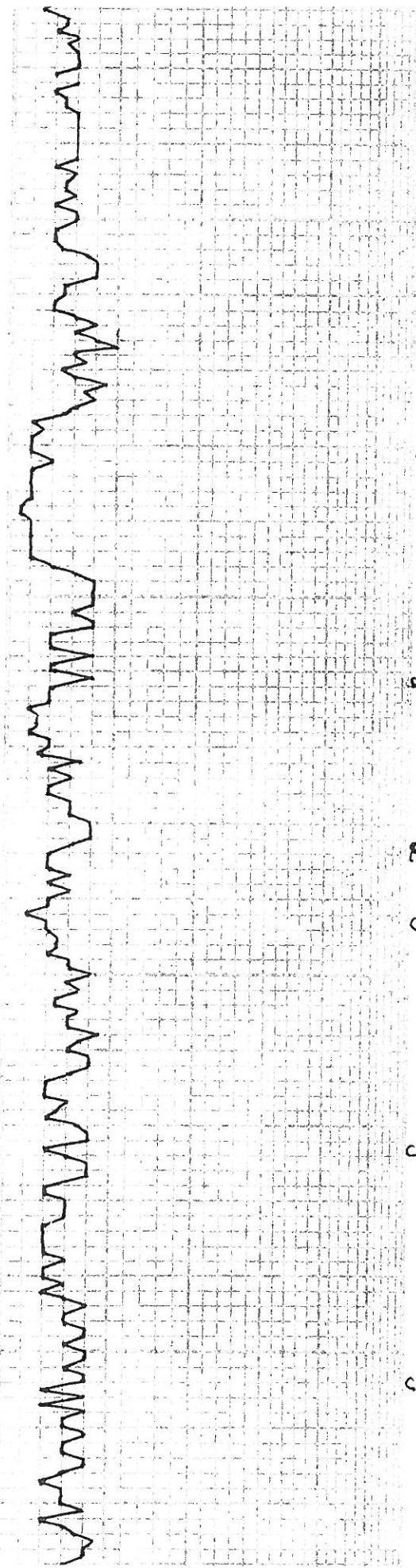
C

A.A. WCRCHLK

A.A. INCR Δ

C

LS, CRM, FXTLN, DNS, SL VUG Ø,  
HRD, NS



C DEV 10

4300

STARK  
4312 -1108

F

C

C

4400

C

n.n.

LS. BRN, GRAY/WHT, FXTLN, HRD  
FRACIP, 2NDRY PYRITE+CALC  
FILH, NO APP Ø. NS

LS. BRN, FXTLN, V OOL+FOSS,  
V HRD, CHT CMT'D, TITE, NS

LS. CRM/BUFF, FXTLN, S→M HRD  
V FOSS, FOSS FRAG'S, VAR SIZE  
FOSS, SL P XTLA Ø. NS

LS. TAN, FXTLN, SOFT, FOSS W/  
SL OOLS, W CMT'D W/SL TR  
FOSS Ø. NS

LS, WHT, CRM, BRN, INCR OOLS,  
OOLS W/CHT CMT, TITE, NS  
WBT

LS. DK GRAY/TAN, V FXTLN,  
V DNS, V HRD, TITE, NS

SH, THIN ZONE, GRAY  
LS. CRM, MXTLN, GRM, LTT.  
S→M HRD, F-G XTLA Ø. NS

LS, LT GRAY, FXTLN, DNS, HRD,  
TITE, NS

A.A. WCR CHLK

A.A. INCR Δ

LS. CRM, FXTLN, DNS, SL VUG Ø.  
HRD, NS

A.A.

LS. CRM, TAN, FXTLN, DNS, SL

-7:AM 5  
Di

-CFS 421

-CFS 420

-CFS 43:

-CFS 439:

TR V

ALT, FEW FOS, NO APP. NS

C

LS, LT GR, AA, INCR FOS

VIS 48  
WT 9.2  
LCM 3

C

L/BKC  
4474 - 1270

SLT STN, GRV, V SANDY, V WET

LS, TAN, GRV, V FXTLN, V DNS  
V HRD V FEW FOS, TITE, NS

VIS 47  
WT 9.3  
LCM 3

MARMATON  
C 4500

SH, RED, GRV, GRN, HRD

4503 - 1299

A A CHT, WHT, TAN, OPAQ

LS, TAN, V FXTLN, V DNS, V HRD,  
SCT BLK O FILL PPO C LPC

LS, TAN, V FXTLN, CHT, CMT, V OOL  
CONG PCS, W CMT'D, TITE, NS  
CHT CMT

-CFS 4529-45'

C

SH, GRV, GRN, PCS CARB, BLK

LS, WHT, FXTLN, LG XTLN, W IN, HRD  
V FEW FOS, NO APP. NS

LS, TAN, FXTLN, V HRD, OOL V FOS  
VW CMT'D, TITE, NS

MUD CHECK  
VIS 53 WT 9.2  
CHLOR 5,100, LCM 3  
FILT 8.8

C

LS, WHT, LT GRV, F MXTLN, HRD  
SL FOS, NO APP. NS

A A CHT, WHT, BLK, PYR

LS, GRV, DK GRV, FXTLN, MXTLN  
W IN, FOS, HRD, V PXTLN, NS

-7:AM 5-24-11  
DRLG @ 4569'

PAWNEE  
4584 - 1380

A A CHT, WHT, REW FOS W IN

SH, GRV

C

LS, TAN, GRV, FXTLN, PCS GRN, FILM STNG  
S M HRD, 1 PC WHT, LTO FILM  
STNG, NO O DOR

4600

SH, BLK, CARB

VIS 57  
WT 9.2  
LCM 2



MYRIC  
STATION  
4613 - 1409

LS, WHT, F MXTLN SOFT, "ROTEN",  
THIN ZONE, NO O DOR, DK BRN O

HT FILM  
STNG  
SPRCA

-CFS 4614-45" AMP + to 800'

C FT SCOTT  
4634 - 1420

LS, TAN, FXTLN, GRV, HRD, PCS MEALY,  
G FLUOR FILM, SCT PP FLUOR O SPTS,  
G DK BRN DRYO FILL VUGS + OOL,  
G O DOR, O DOR DISIPATES QUICKLY,  
SL GAS, FFO ON BRK

-CFS 4623-45"  
7:AM 5-27-11 IN HOLE FROM  
7:AM 5-26-11 DST #1  
BLOWN TURBO

SH BLK, PCS CARB

MUD CHECK

LS, TAN, BRN, FXTLN, FOS, SL OOL,



L/BKC  
4474 -1270

SLTSTM, GRV, V SMDY, V WBT

LS, TAN, GRV, V FXTLN, V DNS  
V HRD V FOW FOS, TITE, NS

MARMATON  
C 4500

SH, RED, GRV, GRN, HRD

4503 -1299

A A CHT, WHT, TAN, OPAQ

LS, TAN, V FXTLN, V DNS, V HRD,  
SCT BLK O FILL PP Ø C Lpc

LS, TAN, V FXTLN, CHT CMT, V OOL  
CONG PCS, W CMT'D, TITE, NS  
CHT CMT

C

SH, GRV, GRN, Pcs CARB, BLK  
LS, WHT, FXTLN, LG XTLG W/IN HRD  
V FEN FOS, NO APP Ø, NS

LS, TAN, FXTLN, V HRD, OOL, FOS  
VW CMT'D, TITE, NS

LS, WHT, LT GRV, F → MXTLN, HRD  
SL FOS, NO APP Ø, NS

C

A A CHT, WHT, BLK, PYR

LS, GRV, DK GRV, FXTLN, MXTLN  
W/IN, FOS, HRD, V PXTLN, NS

A A CHT, WHT, REW FOS W/IN

PAWNEE  
4584 -1380

SH, GRV

LS, TAN, GRV, FXTLN, Pcs CARB, FILM STNG  
S → M HRD, (PC WHT, LT O FILM  
STNG, NO O POR

C

4600

SH, BLK, CARB



MYRIC  
STATION  
4613 -1409

LS, WHT, F → MXTLN, SOFT, "ROTEN",  
THIN ZONE, NO O POR, DK BRN O

LT FILM  
STAG  
SPRC FO -CFS 4614-

FT SCOTT  
C 4634 -1420

LS, TAN, FXTLN, GRV, HRD, Pcs MEALY,  
G PLVRO FILM, SCT PP FLVRO Ø SPTS,  
G DK BRN DRY O FILL VUGS + OOL Ø,  
G O POR, O POR DISAPTES QUICKLY,  
SL GAS, FFO DN BRK

-CFS 462:  
7:AM 5-2  
7:AM 5-26-  
BLOWNT

SH, BLK, Pcs CARB

LS, TAN BRN, FXTLN, FOS, SL OOL,  
M HRD, W CMT'D FOS, ? TR PP  
XTLN Ø, HRD

A A CHT, DK BRN/GRV, O PAQ, SL FOS  
A A GAY, WHT, W CMT'D OOLS W/IN  
A A

LS, TAN, BUFF, FXTLN, V OOL +  
FOS, W A CMT'D, V HRD, Pcs  
FINT FOS Ø, NS

C

LS, WHT, FXTLN, W CMT'D OOLS,  
NO APP Ø, HRD, NS

-CFS 4653  
DST#

CHEROKEE  
4663 -1459

SH, GRV/GRN, SH BLK DD O STRINGS

LS, GRV, V FXTLN, V DNS, V HRD  
NO APP Ø, NS

SH, BLK, HRD

I C BRN, V FXTLN, V DNS, V HRD

IF: 808 10"  
FF 808 12"  
REC: 248° C  
246° N  
25° API 60' 1  
FP: 47-97,  
SIP: 1220-

C

4700

JOHNSON  
4706 - 1502

C

ATOKA  
4749 - 1545

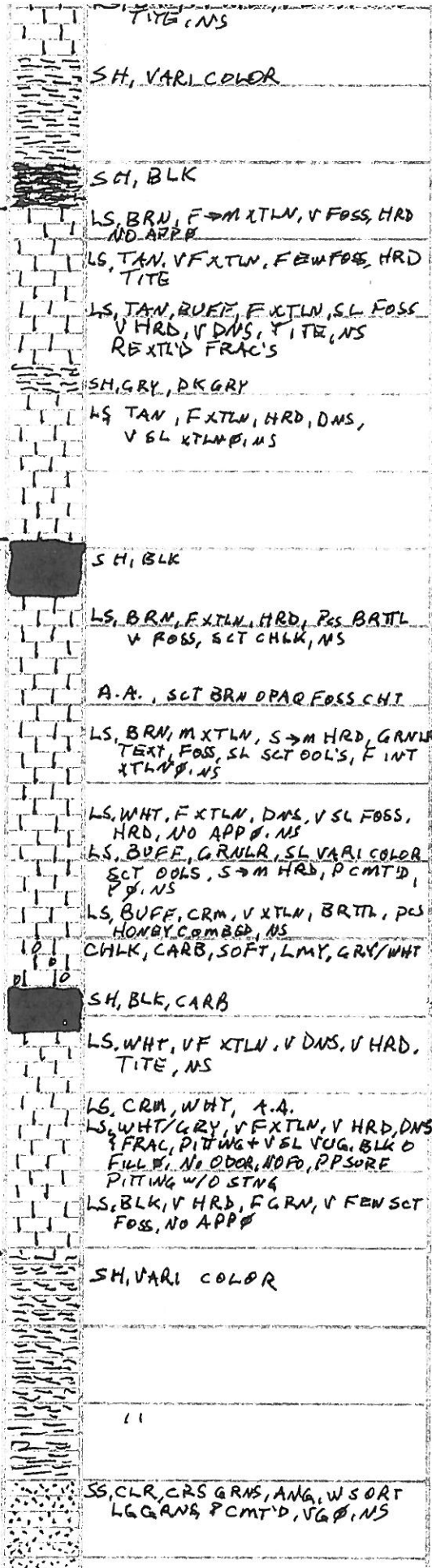
C

4800

C

MORROW SH  
4841 - 1637

C



HP: 2247-2157  
240' GIP  
-CFS 4686-45'

-CFS 4721-45'

-CFS 4747-45'

VIS 55  
WT 9.1  
LCM 3

-CFS 4791-45"

-CFS 4829-60"

VIS 56  
WT 9.1

-CFS 4850-60"

7:AM 5-28-11  
CIRC FOR DST #2  
MUD CHECK  
VIS 55, WT 9.2  
CHLOR 5,600, LCM 3  
FILT 8.8

DST #2 4805-4850





C ATOKA  
4749 - 1545

SH, GRAY, DK GRAY  
LS TAN, FXTLN, HRD, DNS,  
V SL XTLP, NS

- CFS 4747

SH, BLK

LS, BRN, FXTLN, HRD, Pcs BRTL  
V FOSS, SCT CHLK, NS

A.A., SCT BRN OPAQ FOSS CHT

LS, BRN, MXTLN, S → M HRD, GRNLR  
TEXT, FOSS, SL SCT OOL'S, F INT  
XTLP, NS

C

LS, WHT, FXTLN, DNS, V SL FOSS,  
HRD, NO APP Ø, NS

LS, BUFF, GRNLR, SL VARI COLOR  
SCT OOLS, S → M HRB, PCMT'D,  
P Ø, NS

- CFS 4791 - 1

4800

LS, BUFF, CRM, VXTLN, BRTL, Pcs  
HONEY COMBED, NS

CHLK, CARB, SOFT, LMY, GRY/WHT

SH, BLK, CARB

LS, WHT, V FXTLN, V DNS, V HRD,  
TITE, NS

LS, CRM, WHT, A.A.  
LS, WHT/CRY, V FXTLN, V HRD, DNS

BLK Ø  
FILL Ø

- CFS 4829

FRAC, PITTING + V SL VUG, BLK Ø  
FILL Ø, NO ODOR, NO FO, PP SURF  
PITTING W/O STNG

LS, BLK, V HRB, FGRN, V FEW SCT  
FOSS, NO APP Ø

C MORROW SH  
4841 - 1637

SH, VARI COLOR

- CFS 4850  
7:AM 5-2  
CIR

SS, CLR, CRS GRNS, ANG, W SORT  
LGG ANS, PCMT'D, V G Ø, NS

VIS.  
CHLO  
FILT

DST #2

IF: 4' dead  
FF: No blo  
REC: 10'  
FP: 36'-6  
SIP: 953

4900

SH, GRAY, BLK, GRN

SS, FGRNS, W SORT, PCMT'D, SL  
FRIABLE, GRN CMT, V G Ø, NS

SS CLR, V ANG, LGG GRNS, SL CARB

SH, GRAY, GRN





MISS  
4990 -1786

5000

5100

SS, WHT, CLR GRNS, CLEAN SAND  
W SORT, F → P CMT, V.G. Ø, NS

-CFS 4944'-60"

SS, WHT, LT TAN, CLR GRNS, W  
CMT'D, HRD, V SL LOOSE IN PR  
F → P Ø, NS

VIS 6.3  
WT 9.2  
LCM 3

SH, GRN, DP O STRINGS Y. N

-CFS 4966'-60"  
7:AM 5-29-11  
DRLG @ 4967'

CHLK

CHLK

LS, WHT, FXTLN, V OOL, CHLKY,  
HRD, V GRNLR, W CMT'D, G INT  
GRNLR Ø,  
LS, GRY, V FXTLN, DMS, HRD,  
FEW FOSS, TITE, NS

MUD CHECK  
VIS 5.0, WT 9.3  
CHLOR 6,200, LCM 3  
FILT 8.8

CHT, PEACH, SL FOSS

-CFS 5012'-60"  
7:AM 5-30-11  
DRLG @ 5013

LS, BUFF, GRNLR, HRD, TITE, NO  
FOSS, WET, NS  
LS, BUFF, TAN, FXTLN, DMS, 2 DRY  
FRAC REPLACE, TITE, SL FOSS,

MUD CHECK  
VIS 4.5, WT 9.3  
CHLOR 8,200, LCM 3  
FILT 9.6

LS, BUFF, TAN, GRNLR, S → M HRD  
PCMT'D, F Ø, NS

DST #3 4788-5012  
30-60-45-90  
IF: 8081" ISI: NR  
FF: 8085" FSI: NR  
REC: 248' M  
372' MW 50% W  
816' MW 70% W  
744' MW 95% W  
120' WM 25% W  
50,000 CHLOR

SH, GRY, GRN

FP: 628-943 947-1111  
SIP: 1134-1139  
HP: 2382-2226

LS, BUFF, CRS XTLN, M HRD,  
V UGY, V.G. VUG Ø, NS

LS, WHT, CRM, FXTLN, HRD, DMS,  
SH FOSS, NO APP Ø, NS

CHLK

-CFS 5091'-60"

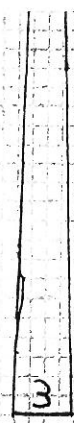
LS, CRM, FXTLN, SL CHLKY, SL  
DMS, M HRD, V HRD IN PCS, FEW  
FOSS, V P XTLN Ø, NS

LS, TAN, FXTLN, V DMS, V HRD  
VF FOSS, TITE, NS

A.A.

VIS 5.6  
WT 9.3  
LCM 2

LS, TAN, CRM, F → M XTLN, M HRD



Miss  
4990 -1786

5000

5100

0 1 0 1  
0 1 0 1  
0 1 0 1  
0 1 0 1  
0 1 0 1  
0 1 0 1  
0 1 0 1  
0 1 0 1  
0 1 0 1  
0 1 0 1

CHLK

LS. WHY, FXTLN, V OOL, CHLKY,  
HRD, V GRNLR, W CMT'D, G INT  
GRNLR, LS. GRY, V FXTLN, DMS, HRD,  
FEW FOSS, TITE, NS

A A CHT, PEACH, SL FOSS

LS. BUFF, GRNLR, HRD, TITE, NO  
FOSS, WET, NS  
LS. BUFF, TAN, FXTLN, DMS, 2 MDRY  
FRAC REPLACE, TITE, SL FOSS,

LS. BUFF, TAN, GRNLR, S M HRD  
PCMT'D, F P. NS

SH, GRY, GRN

LS. BUFF, CRS XTLN, M HRD,  
V VUGY, V VUG P, NS

LS. WHY, CRM, FXTLN, HRD, DMS,  
SL FOSS, NO APP P. NS

CHLK

LS. CRM, FXTLN, SL CHLKY, SL  
DMS, M HRD, V HRD IN PCS, FEW  
FOSS, V PXTLN P, NS

LS. TAN, FXTLN, V DMS, V HRD  
VF FOSS, TITE, NS

A. A.

LS. TAN, CRM, F M XTLN, M HRD  
BRITL, FOSS, SL FOSS P, NS

LS. CRM, VF XTLN, DMS, M HRD,  
RARE FOSS, TITE, NS

A A CHT, WHY/CRM, FOSS, NS

A. A.

1. AM S-  
DR

V  
C  
F

CFS 5012  
7:AM 5-3  
DRK

VIS  
CHL  
FIL

DST #

IF: 8081"  
FF: 8085"  
REC: 248'  
372'  
816'  
744'  
120' u  
59.0  
FP: 628-9  
SIP: 1134-  
HP: 2382

CFS 5091'

S



-TD-  
DEV 1°



CFS 57183-45"





**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 30758  
LOCATION Oakley Ks  
FOREMAN Walt Dinkel

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 |
|---------------------------------|------------|--------------------|------------------------------------|-----------------|-----------------|--------|
| 4-17-11                         | 7158       | Steckel-Darney #2  | 1                                  | 14 <sup>s</sup> | 32 <sup>w</sup> | Logan  |
| CUSTOMER<br>Raymond Oil Co, Inc |            |                    | TRUCK # DRIVER TRUCK # DRIVER      |                 |                 |        |
| MAILING ADDRESS                 |            |                    | 456-T118 Chad Smith                |                 |                 |        |
| CITY STATE ZIP CODE             |            |                    | 566 Josh Budde - Cory Davis        |                 |                 |        |
|                                 |            |                    | 528-T127 miles Skov - Damin Miller |                 |                 |        |

JOB TYPE Prod-DV-0 HOLE SIZE 7 7/8 HOLE DEPTH 4640' CASING SIZE & WEIGHT 4 1/2 - 10.5 #  
CASING DEPTH 4638' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 14.2 - 12.8 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 42'  
DISPLACEMENT 75 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 6 BPM

REMARKS: 55Fty meeting, rig up to circ, (Cent 1-3-5-7-9-11-53", DV 254  
mix 300 SKs 60/40 por, 7 1/2 % salt, 2% cal, Clear Pump + Lines, Displace 40 BBL  
H2O + 35 BBL mud @ 1000#, landed @ 1500#, released, Pressure  
Floct held,  
Drop opening tool, open tool, mixed 420 SKs 69/40 por, 8% cal  
1/4# Flo Seal, released Plug + Displace 37 BBL H2O @ 850 #  
landed Plug @ 1500#, released Pressure, Held

Cement Did Circ

Thank You  
Walt + crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE          | TOTAL                |
|--------------|-------------------|------------------------------------|---------------------|----------------------|
| 5401 P       | 1                 | PUMP CHARGE                        | 2,950 <sup>00</sup> | 2,950 <sup>00</sup>  |
| 5406         | 20                | MILEAGE                            | 5 <sup>00</sup>     | 100 <sup>00</sup>    |
| 1131         | 300 SKs           | 60/40 por, Bottom stage            | 14 <sup>35</sup>    | 4,305 <sup>00</sup>  |
| 1131         | 450 SKs           | 60/40 por, Top stage               | 14 <sup>35</sup>    | 6,457 <sup>50</sup>  |
| 1111         | 1200 #            | Salt                               | .42                 | 504 <sup>00</sup>    |
| 1118 B       | 3612 #            | Bentonite                          | .24                 | 866 <sup>88</sup>    |
| 1107         | 113 #             | Flo Seal                           | 2 <sup>66</sup>     | 300 <sup>58</sup>    |
| 4156         | 1                 | #FU Floct Shoe                     | 287 <sup>00</sup>   | 287 <sup>00</sup>    |
| 4129         | 7                 | Centralizers                       | 46 <sup>00</sup>    | 322 <sup>00</sup>    |
| 4103         | 1                 | Basket                             | 261 <sup>00</sup>   | 261 <sup>00</sup>    |
| 4283         | 1                 | DV Tool                            | 3850 <sup>00</sup>  | 3,850 <sup>00</sup>  |
| 5407A        | 32.25             | Tow Mileage Delivery               | 1 <sup>58</sup>     | 1,019 <sup>10</sup>  |
|              |                   |                                    |                     | 21,223 <sup>06</sup> |
|              |                   |                                    |                     | 3,183 <sup>40</sup>  |
|              |                   |                                    |                     | 18,039 <sup>59</sup> |
|              |                   |                                    |                     | 1137.33              |
|              |                   |                                    |                     | 19,176.92            |

Ravin 3737

AUTHORIZATION \_\_\_\_\_ 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 form.

# CONSOLIDATED

Oil Well Services, LLC

MS  
Pm  
JG

TICKET NUMBER 30735  
LOCATION Edwards  
FOREMAN Fuzz Y

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   |
|-----------------------------|-----------|--------------------|---------|------------|-------|----------|
| 4-5-11                      | 7158      | Steckel-Darvey #2  | 1       | 14         | 32    | Lawson   |
| CUSTOMER<br>Raumond Oil Co. |           | CITY<br>Win        |         | STATE      |       | ZIP CODE |
| MAILING ADDRESS             |           | TRUCK#             |         | DRIVER     |       | TRUCK#   |
|                             |           | 566                |         | C. Smith   |       | Josh     |
|                             |           | 463                |         | Miles Shaw |       |          |

|                            |                         |                         |   |
|----------------------------|-------------------------|-------------------------|---|
| JOB TYPE <u>Surface</u>    | HOLE SIZE <u>12 1/4</u> | HOLE DEPTH <u>250'</u>  | CASING SIZE & WEIGHT <u>8 1/8 - 24#</u> |
| CASING DEPTH <u>247'</u>   | DRILL PIPE              | TUBING                  | OTHER                                   |
| SLURRY WEIGHT <u>15.24</u> | SLURRY VOL <u>1.34</u>  | WATER gal/sk <u>5.2</u> | CEMENT LEFT in CASING <u>15'</u>        |
| DISPLACEMENT <u>14.7</u>   | DISPLACEMENT PSI        | MIX PSI                 | RATE                                    |

REMARKS: safety meeting on L.D. Rig #1 used 8 1/8 sledge  
Mix 175 sks Cem 39cc, 29cc  
Displace 14 3/4 BBLs + shut in

Cement did circulate approx 5 BBLs

Thanks Fuzz Y crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE      | TOTAL           |
|--------------|-------------------|------------------------------------|-----------------|-----------------|
| 54015        | 1                 | PUMP CHARGE                        | 1025.00         | 1025.00         |
| 5406         | 20                | MILEAGE                            | 500             | 1000.00         |
| 11045        | 175               | CLASS A                            | 16.80           | 2940.00         |
| 1102         | 495#              | Calcium chloride                   | .84             | 415.80          |
| 1118B        | 330#              | Bentonite                          | .24             | 79.20           |
| 5407         | 8.23              | Tow mileage Delivery               | 158             | 410.00          |
|              |                   |                                    |                 | 4970.00         |
|              |                   |                                    |                 | less 20.70 disc |
|              |                   |                                    |                 | 3976.70         |
|              |                   |                                    | SALES TAX       | 214.34          |
|              |                   |                                    | ESTIMATED TOTAL | 4190.34         |

240434

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 for

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

September 08, 2011

Ted McHenry  
Raymond Oil Company, Inc.  
PO BOX 48788  
WICHITA, KS 67202-1822

Re: ACO1  
API 15-203-20162-00-00  
Holstein 1  
NW/4 Sec.12-20S-36W  
Wichita County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Ted McHenry



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil  
 8301 E 21st St N., Ste 360  
 Wichita, KS 67206-2987  
 ATTN: Max Lovely

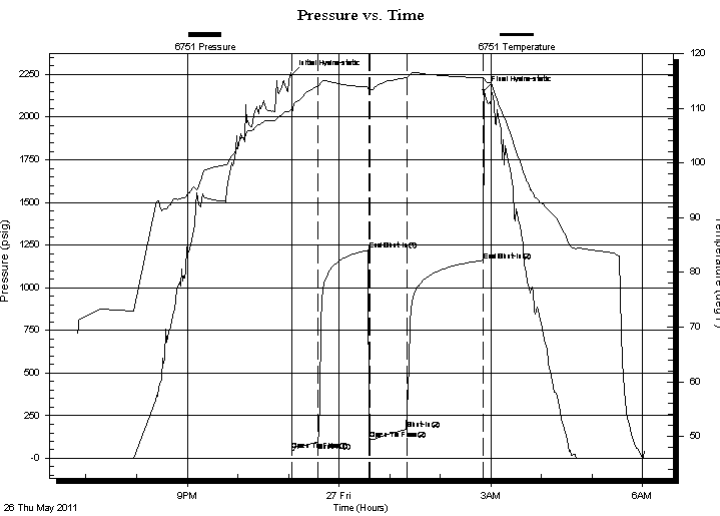
**Holstein # 1**  
**12-20-36 Wichita KS**  
 Job Ticket: 43135 **DST#: 1**  
 Test Start: 2011.05.26 @ 18:50:00

## GENERAL INFORMATION:

Formation: **Myric**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:04:10  
 Time Test Ended: 06:02:49  
 Interval: **4606.00 ft (KB) To 4623.00 ft (KB) (TVD)**  
 Total Depth: 4623.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Bottom Hole  
 Tester: Chuck Smith - Jace M  
 Unit No: 37  
 Reference Elevations: 3204.00 ft (KB)  
 3194.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6751 Outside**  
 Press @ Run Depth: 170.37 psig @ 4607.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.05.26 End Date: 2011.05.27 Last Calib.: 2011.05.27  
 Start Time: 18:50:02 End Time: 06:02:49 Time On Btm: 2011.05.26 @ 23:03:40  
 Time Off Btm: 2011.05.27 @ 02:52:00

**TEST COMMENT:** IF: B.O.B. in 10 min.  
 IS: B.O.B. 38 min Return Blow  
 FF: B.O.B in 12 min.  
 FIS: B.O.B. 40 min Return Blow



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2246.95         | 109.80       | Initial Hydro-static |
| 1           | 47.05           | 109.09       | Open To Flow (1)     |
| 32          | 97.02           | 114.05       | Shut-In(1)           |
| 92          | 1220.18         | 113.85       | End Shut-In(1)       |
| 93          | 111.55          | 113.24       | Open To Flow (2)     |
| 137         | 170.37          | 115.56       | Shut-In(2)           |
| 228         | 1160.47         | 115.54       | End Shut-In(2)       |
| 229         | 2156.90         | 115.45       | Final Hydro-static   |

## Recovery

| Length (ft) | Description            | Volume (bbl) |
|-------------|------------------------|--------------|
| 60.00       | mcog 30% m 30% o 40% g | 0.30         |
| 246.00      | mcgo 10% m 40% g 50% o | 2.90         |
| 248.00      | gco 25% g 75% o        | 3.48         |
|             |                        |              |
|             |                        |              |

## Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|                |                 |                  |



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil  
8301 E 21st St N., Ste 360  
Wichita, KS 67206-2987  
ATTN: Max Lovely

**Holstein # 1**  
**12-20-36 Wichita KS**  
Job Ticket: 43135      **DST#: 1**  
Test Start: 2011.05.26 @ 18:50:00

## Mud and Cushion Information

|                                  |                            |                     |
|----------------------------------|----------------------------|---------------------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API: 25 deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: ppm |
| Viscosity: 53.00 sec/qt          | Cushion Volume: bbl        |                     |
| Water Loss: 8.78 in <sup>3</sup> | Gas Cushion Type:          |                     |
| Resistivity: 0.00 ohm.m          | Gas Cushion Pressure: psig |                     |
| Salinity: 5100.00 ppm            |                            |                     |
| Filter Cake: 1.00 inches         |                            |                     |

## Recovery Information

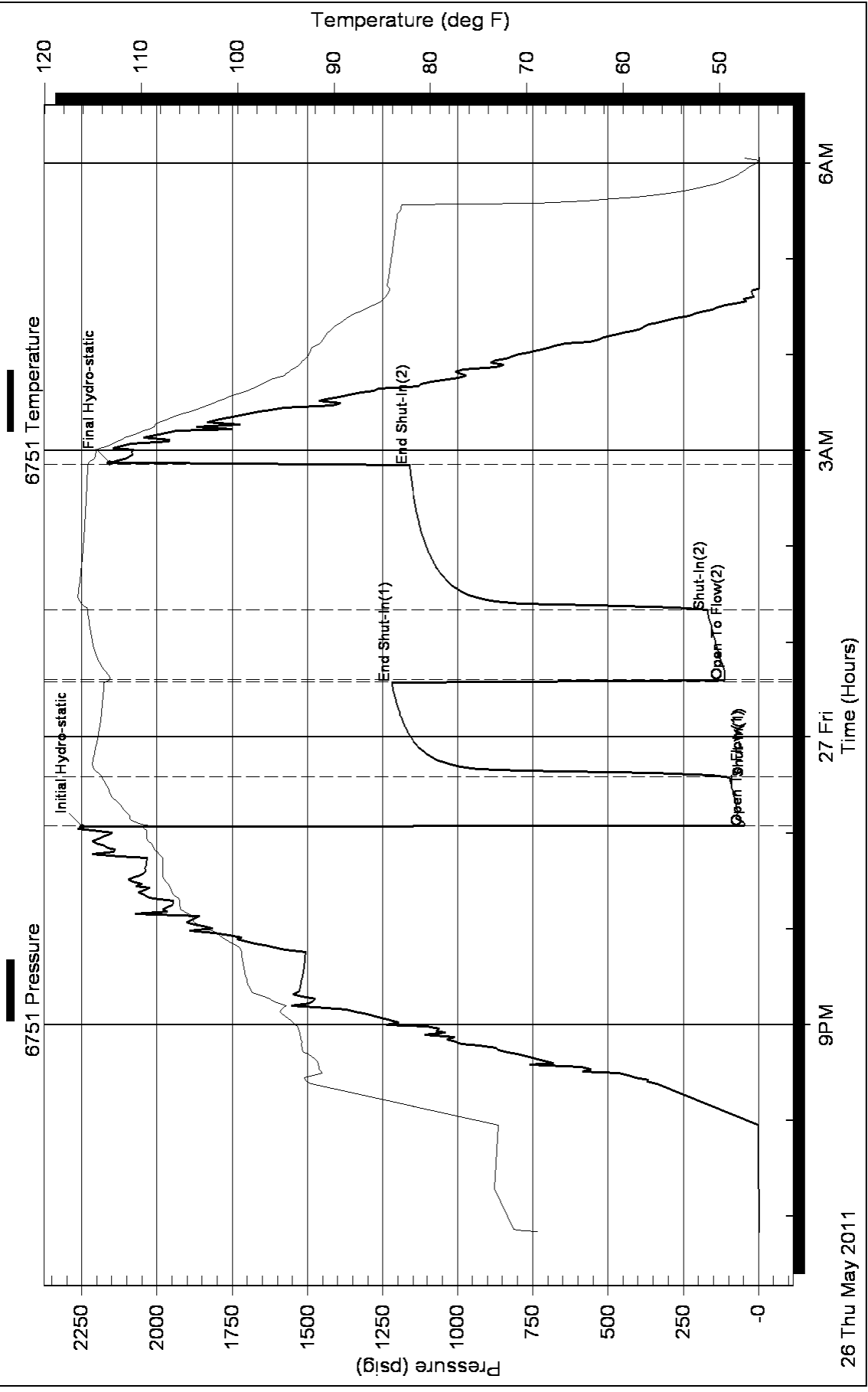
Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 60.00        | mcog 30%m 30%o 40%g | 0.295         |
| 246.00       | mcgo 10%m 40%g 50%o | 2.904         |
| 248.00       | gco 25%g 75%o       | 3.479         |

Total Length: 554.00 ft      Total Volume: 6.678 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: API:24 @ 50 F = 25



### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil  
POB 48788  
Wichita, KS 67202-1822  
ATTN: Max Lovely

**Holstein # 1**  
**S12-20-36 Wichita,KS**  
Job Ticket: 43136      **DST#: 2**  
Test Start: 2011.05.28 @ 11:51:00

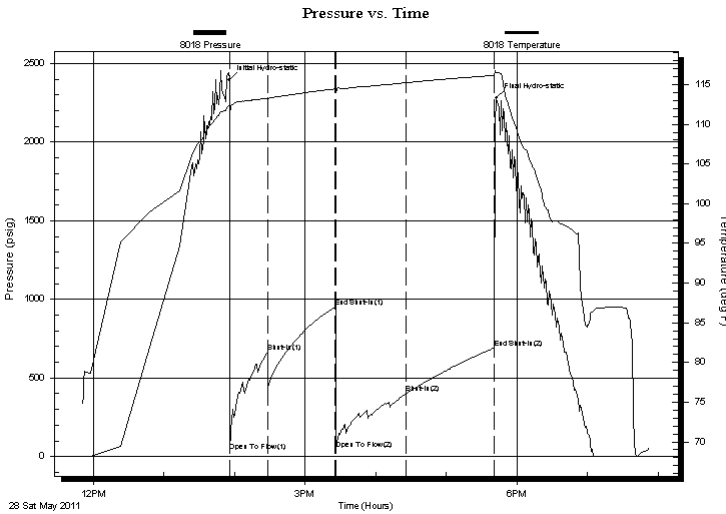
## GENERAL INFORMATION:

Formation: **Atoka**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 13:56:00  
Time Test Ended: 19:53:00  
**Interval: 4805.00 ft (KB) To 4850.00 ft (KB) (TVD)**  
Total Depth: 4850.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: 37  
Reference Elevations: 3204.00 ft (KB)  
3194.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8018      Inside**  
Press @ Run Depth: 400.47 psig @ 4809.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.05.28      End Date: 2011.05.28      Last Calib.: 2011.05.28  
Start Time: 11:51:02      End Time: 19:53:00      Time On Btm: 2011.05.28 @ 13:55:50  
Time Off Btm: 2011.05.28 @ 17:42:39

**TEST COMMENT:** IF: 1/4" Blow , died @ 10 min.  
IS: No return.  
FF: No blow .  
FS: No return.

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2395.59         | 112.33       | Initial Hydro-static |
| 1           | 36.00           | 111.14       | Open To Flow (1)     |
| 33          | 663.64          | 113.31       | Shut-In(1)           |
| 90          | 952.88          | 114.47       | End Shut-In(1)       |
| 91          | 45.37           | 113.99       | Open To Flow (2)     |
| 151         | 400.47          | 115.25       | Shut-In(2)           |
| 225         | 691.36          | 116.16       | End Shut-In(2)       |
| 227         | 2283.13         | 116.56       | Final Hydro-static   |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00       | OSM 100m    | 0.05         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

## Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|                |                 |                  |



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil  
POB 48788  
Wichita, KS 67202-1822  
ATTN: Max Lovely

**Holstein # 1**  
**S12-20-36 Wichita,KS**  
Job Ticket: 43136      **DST#: 2**  
Test Start: 2011.05.28 @ 11:51:00

## Mud and Cushion Information

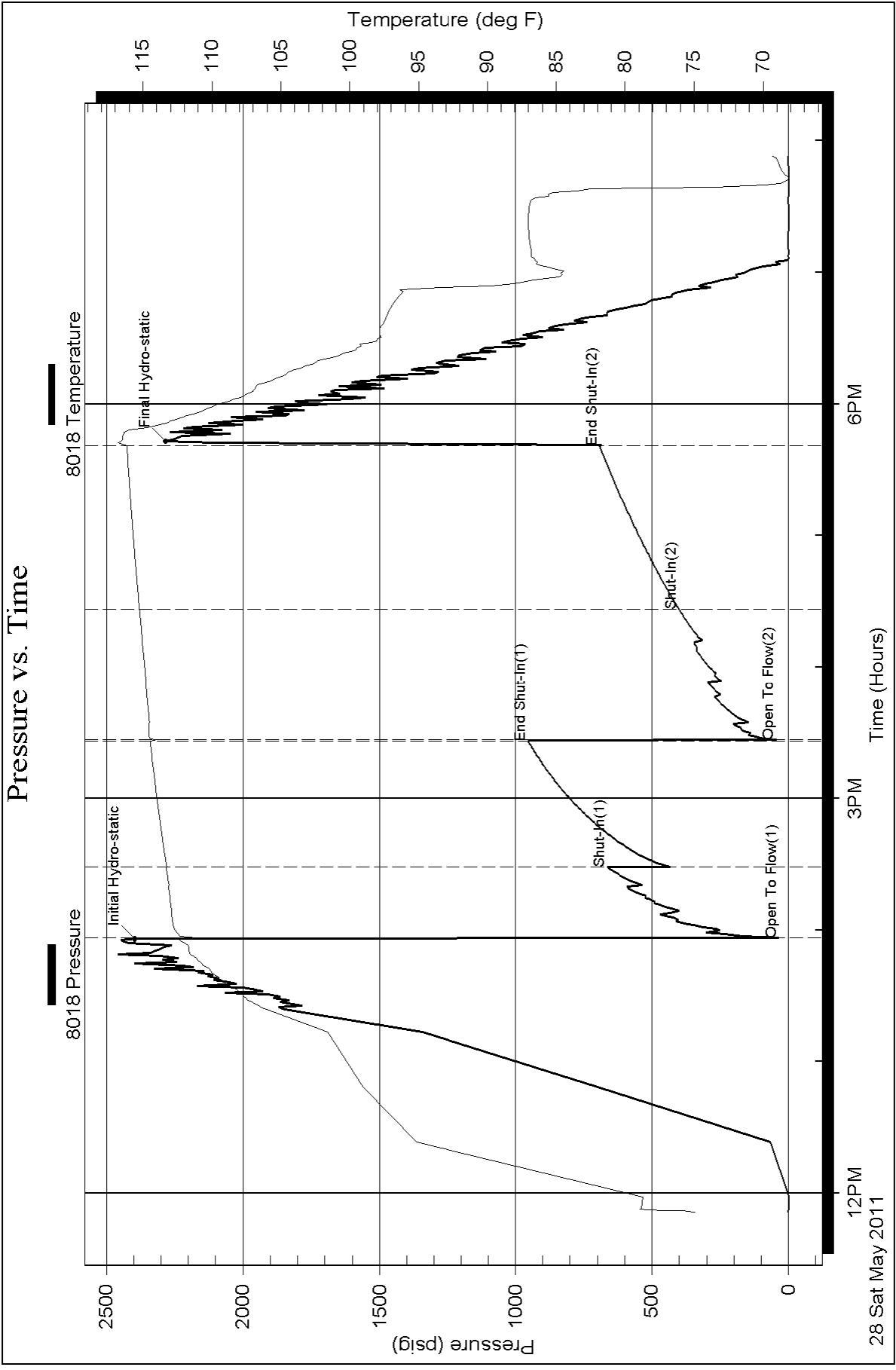
|                                  |                            |                 |         |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | ppm     |
| Viscosity: 55.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 8.75 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: 0.00 ohm.m          | Gas Cushion Pressure: psig |                 |         |
| Salinity: 5600.00 ppm            |                            |                 |         |
| Filter Cake: 1.00 inches         |                            |                 |         |

## Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 10.00        | OSM 100m    | 0.049         |

Total Length: 10.00 ft      Total Volume: 0.049 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil  
POB 48788  
Wichita, KS 67202-1822  
ATTN: Max Lovely

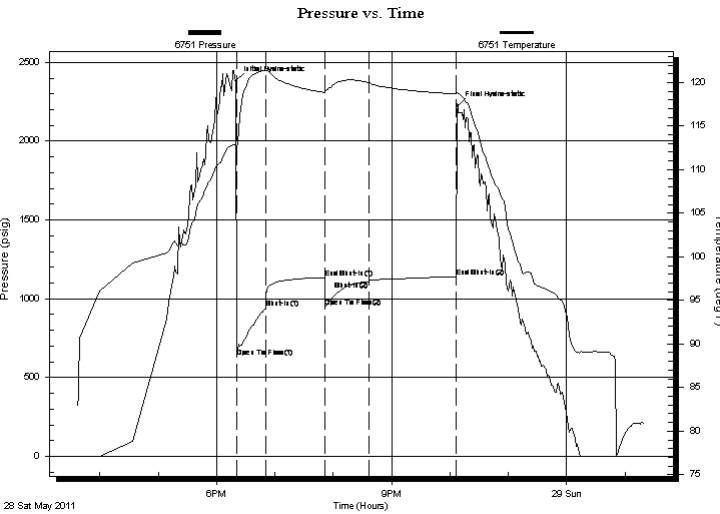
**Holstein # 1**  
**S12-20-36 Wichita,KS**  
Job Ticket: 43139 **DST#: 3**  
Test Start: 2011.05.28 @ 15:37:00

## GENERAL INFORMATION:

Formation: **Atoka, Marrow**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:21:00  
Time Test Ended: 01:20:30  
Interval: **4788.00 ft (KB) To 5012.00 ft (KB) (TVD)**  
Total Depth: 5012.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Chuck Smith  
Unit No: 37  
Reference Elevations: 3204.00 ft (KB)  
3194.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6751 Outside**  
Press @ Run Depth: 1110.76 psig @ 4790.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.05.28 End Date: 2011.05.29 Last Calib.: 2011.05.30  
Start Time: 15:37:02 End Time: 01:20:30 Time On Btm: 2011.05.28 @ 18:20:10  
Time Off Btm: 2011.05.28 @ 22:08:09

TEST COMMENT: IF: B.O.B. @ 1 min.  
IS: No return.  
FF: B.O.B. @ 5 min.  
FS: No return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2382.11         | 112.88       | Initial Hydro-static |
| 1           | 628.46          | 112.63       | Open To Flow (1)     |
| 31          | 943.34          | 121.36       | Shut-In(1)           |
| 91          | 1134.07         | 118.85       | End Shut-In(1)       |
| 92          | 947.41          | 118.83       | Open To Flow (2)     |
| 137         | 1110.76         | 120.00       | Shut-In(2)           |
| 227         | 1138.55         | 118.68       | End Shut-In(2)       |
| 228         | 2225.91         | 118.79       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                        | Volume (bbl) |
|-------------|------------------------------------|--------------|
| 0.00        | RW:.125 @ 80 Degrees F = 50000 PPM | 0.00         |
| 120.00      | mw 25m 75w                         | 0.59         |
| 744.00      | mw 5m 95w                          | 10.44        |
| 816.00      | 30m 70w                            | 11.45        |
| 372.00      | 50m 50w                            | 5.22         |
| 248.00      | M 100m                             | 3.48         |

## Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|                |                 |                  |



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil  
POB 48788  
Wichita, KS 67202-1822  
ATTN: Max Lovely

**Holstein # 1**  
**S12-20-36 Wichita,KS**  
Job Ticket: 43139      **DST#: 3**  
Test Start: 2011.05.28 @ 15:37:00

## Mud and Cushion Information

|                                  |                            |                           |         |
|----------------------------------|----------------------------|---------------------------|---------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:                  | deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: 50000 ppm |         |
| Viscosity: 64.00 sec/qt          | Cushion Volume: bbl        |                           |         |
| Water Loss: 8.77 in <sup>3</sup> | Gas Cushion Type:          |                           |         |
| Resistivity: 0.00 ohm.m          | Gas Cushion Pressure: psig |                           |         |
| Salinity: 6200.00 ppm            |                            |                           |         |
| Filter Cake: 1.00 inches         |                            |                           |         |

## Recovery Information

Recovery Table

| Length<br>ft | Description                        | Volume<br>bbl |
|--------------|------------------------------------|---------------|
| 0.00         | RW:.125 @ 80 Degrees F = 50000 PPM | 0.000         |
| 120.00       | mw 25m 75w                         | 0.590         |
| 744.00       | mw 5m 95w                          | 10.436        |
| 816.00       | 30m 70w                            | 11.446        |
| 372.00       | 50m 50w                            | 5.218         |
| 248.00       | M 100m                             | 3.479         |

Total Length: 2300.00 ft      Total Volume: 31.169 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time

