



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1083317  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

|                                   |                 |   |
|-----------------------------------|-----------------|---|
| Spud Date or<br>Recompletion Date | Date Reached TD | Completion Date or<br>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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

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

1083317

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

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

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

|  |   |
|--|---|
| 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><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 |
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

| 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: <input type="checkbox"/> Yes <input type="checkbox"/> No |
|----------------|-------|---------|------------|---|

|   |  |
|---|--|
| Date of First, Resumed Production, SWD or ENHR. | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |
|---|--|

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

|  |  |   |
|--|--|---|
| <b>DISPOSITION OF GAS:</b><br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | <b>METHOD OF COMPLETION:</b><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> _____ | <b>PRODUCTION INTERVAL:</b><br>_____<br>_____ |
|--|--|---|

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

June 21, 2012

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

Re: ACO1  
API 15-203-20172-00-00  
Holstein Ley 1  
NE/4 Sec.07-20S-35W  
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



## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

PO Box 48788  
Wichita KS 67202

ATTN: Max Lovely

### **Holstein Ley #1**

#### **7-20s-35w Wichita,KS**

Start Date: 2012.03.21 @ 16:23:00

End Date: 2012.03.22 @ 04:34:45

Job Ticket #: 46479                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.03.29 @ 15:16:46



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raymond Oil Company

**7-20s-35w Wichita,KS**

PO Box 48788  
Wichita KS 67202

**Holstein Ley #1**

Job Ticket: 46479

**DST#: 1**

ATTN: Max Lovely

Test Start: 2012.03.21 @ 16:23:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 3196.00 ft (KB)

Time Tool Opened: 18:58:30

Time Test Ended: 04:34:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 48

**Interval: 4495.00 ft (KB) To 4424.00 ft (KB) (TVD)**

Reference Elevations: 3196.00 ft (KB)

Total Depth: 4524.00 ft (KB) (TVD)

3185.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8358**

**Inside**

Press @ Run Depth: 647.35 psig @ 4496.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.21

End Date:

2012.03.22

Last Calib.:

2012.03.22

Start Time: 16:23:15

End Time:

04:34:45

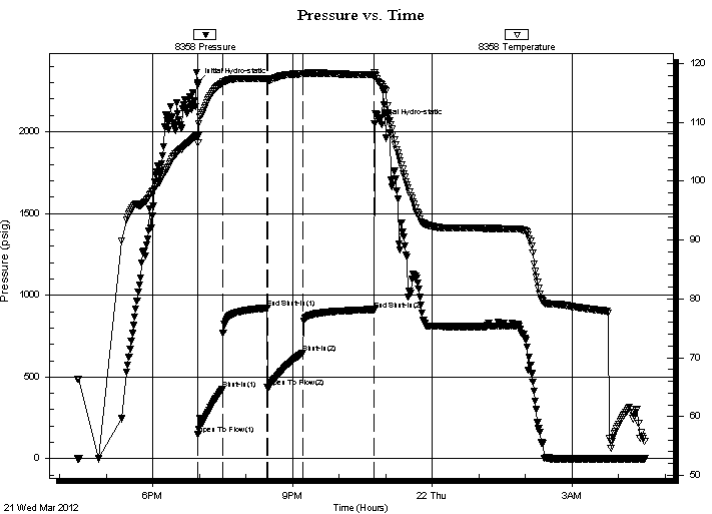
Time On Btm:

2012.03.21 @ 18:58:15

Time Off Btm:

2012.03.21 @ 22:45:45

**TEST COMMENT:** 30-IFP- BOB in 2 min  
60-ISIP- BOB in 7 min  
45-FFP- BOB in 2 min  
90-FSIP- BOB in 13 min



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2298.07         | 107.62       | Initial Hydro-static |
| 1           | 152.20          | 106.54       | Open To Flow (1)     |
| 32          | 425.71          | 116.68       | Shut-In(1)           |
| 90          | 921.77          | 117.39       | End Shut-In(1)       |
| 90          | 435.04          | 117.16       | Open To Flow (2)     |
| 135         | 647.35          | 118.23       | Shut-In(2)           |
| 228         | 912.45          | 118.04       | End Shut-In(2)       |
| 228         | 2047.75         | 118.48       | Final Hydro-static   |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 1760.00     | Clean Oil   | 21.31        |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Company

**7-20s-35w Wichita,KS**

PO Box 48788  
Wichita KS 67202

**Holstein Ley #1**

Job Ticket: 46479

**DST#: 1**

ATTN: Max Lovely

Test Start: 2012.03.21 @ 16:23:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4114.00 ft | Diameter: 3.80 inches | Volume: 57.71 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.75 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 371.00 ft  | Diameter: 2.25 inches | Volume: 1.82 bbl               | Weight to Pull Loose: 85000.00 lb  |
|                           |                    |                       | <u>Total Volume: 59.53 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 18.00 ft           |                       |                                | String Weight: Initial 71000.00 lb |
| Depth to Top Packer:      | 4495.00 ft         |                       |                                | Final 80000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 29.00 ft           |                       |                                |                                    |
| Tool Length:              | 57.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|                 |       |      |         |         |                               |
|-----------------|-------|------|---------|---------|-------------------------------|
| Change Over Sub | 1.00  |      |         | 4468.00 |                               |
| Shut In Tool    | 5.00  |      |         | 4473.00 |                               |
| Hydraulic tool  | 5.00  |      |         | 4478.00 |                               |
| Jars            | 5.00  |      |         | 4483.00 |                               |
| Safety Joint    | 3.00  |      |         | 4486.00 |                               |
| Packer          | 5.00  |      |         | 4491.00 | 28.00 Bottom Of Top Packer    |
| Packer          | 4.00  |      |         | 4495.00 |                               |
| Stubb           | 1.00  |      |         | 4496.00 |                               |
| Recorder        | 0.00  | 8358 | Inside  | 4496.00 |                               |
| Recorder        | 0.00  | 6668 | Outside | 4496.00 |                               |
| Perforations    | 23.00 |      |         | 4519.00 |                               |
| Bullnose        | 5.00  |      |         | 4524.00 | 29.00 Bottom Packers & Anchor |

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil Company

**7-20s-35w Wichita,KS**

PO Box 48788  
Wichita KS 67202

**Holstein Ley #1**

Job Ticket: 46479

**DST#: 1**

ATTN: Max Lovely

Test Start: 2012.03.21 @ 16:23:00

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 1760.00      | Clean Oil   | 21.309        |

Total Length: 1760.00 ft      Total Volume: 21.309 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8358

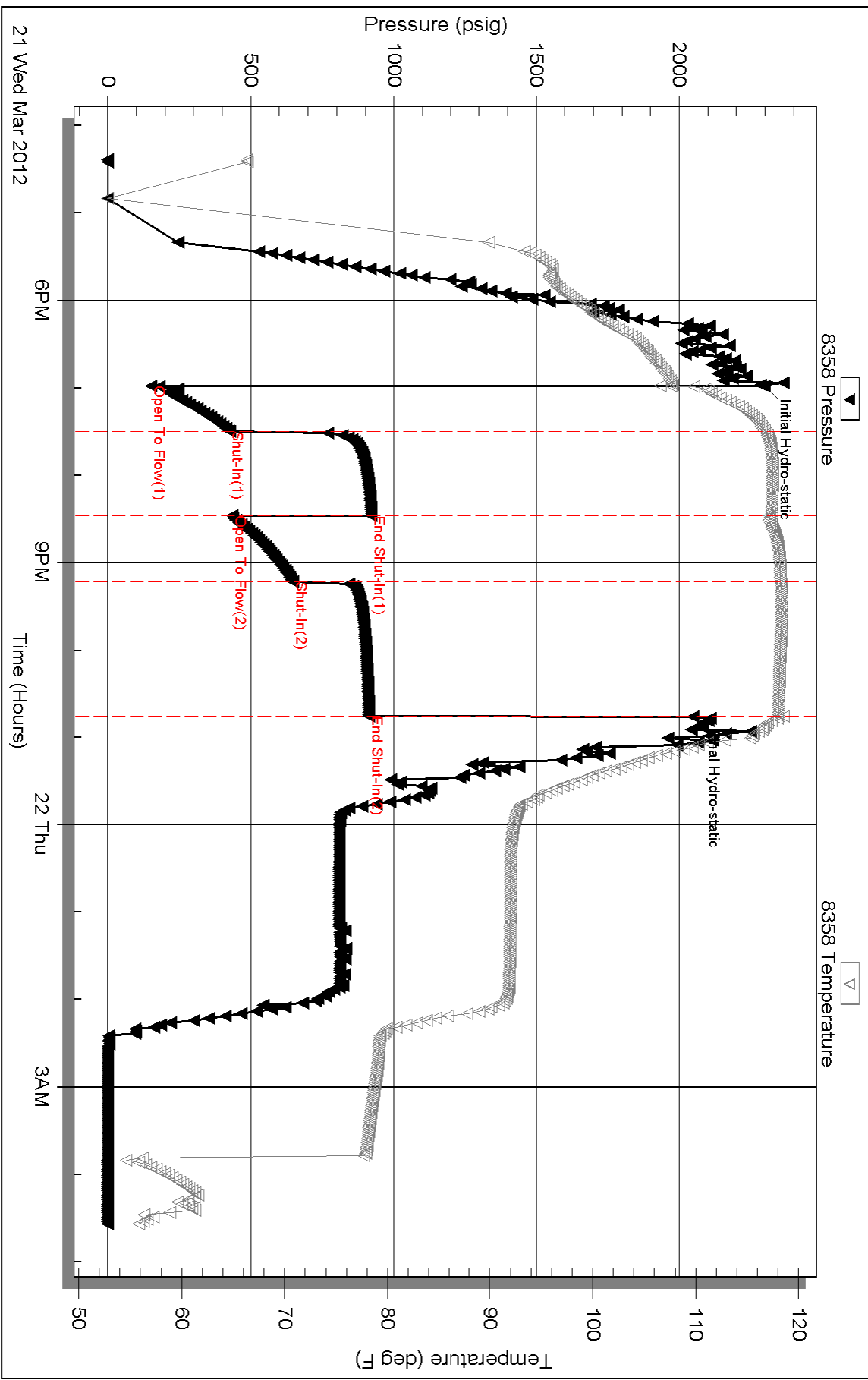
Inside

Raymond Oil Company

Holstein Ley #1

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46479

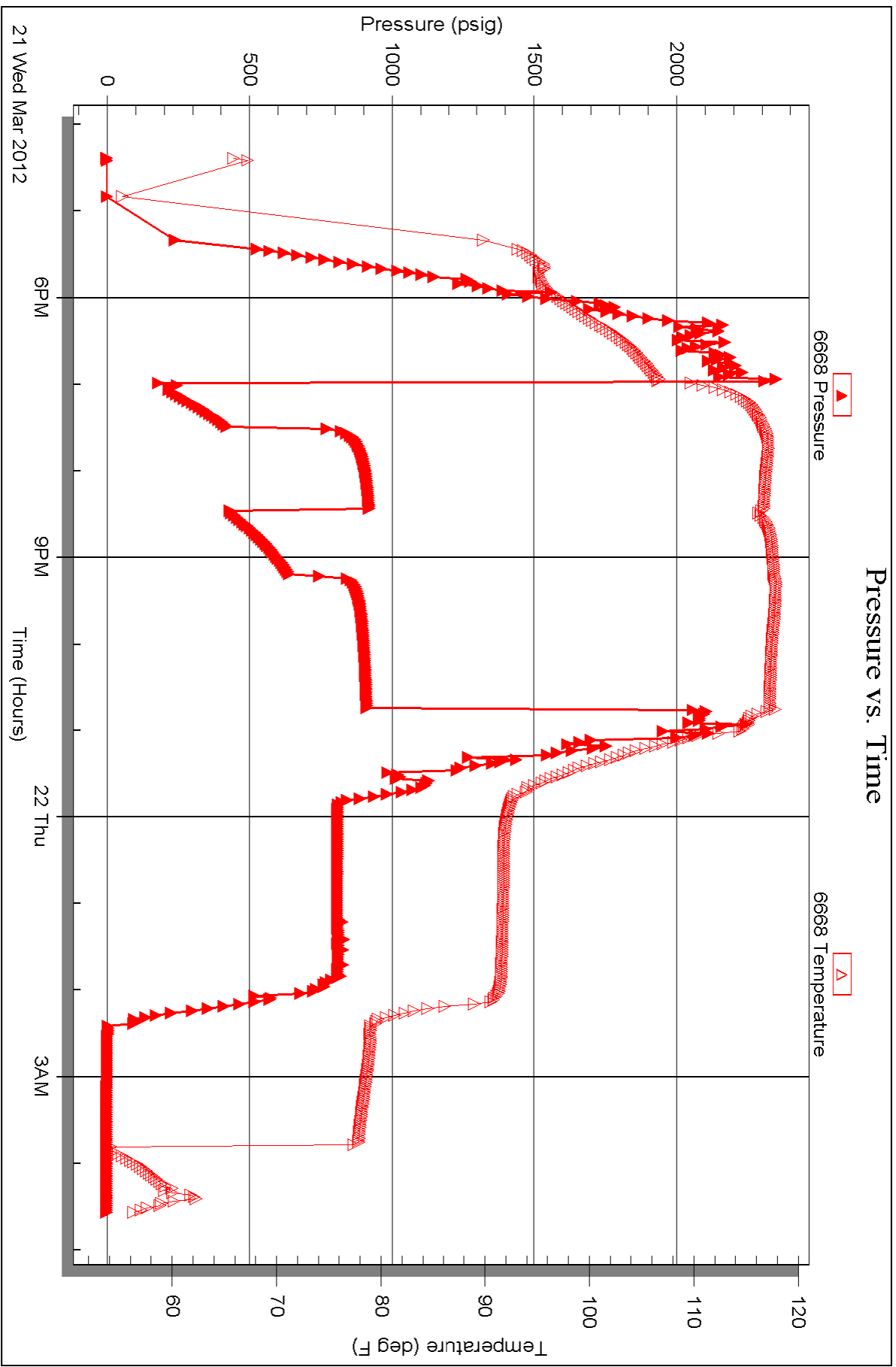
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Serial #: 6668

Outside Raymond Oil Company

Holstein Ley #1

DST Test Number: 1





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## RECEIVED Test Ticket

MAR 26 2012

NO. 46479

4/10

BY:

Well Name & No. Holstein Key #1 Test No. 1 Date 3-21-12  
 Company Raymond Oil Co. Elevation 3196 KB 3185 GL  
 Address P.O. Box 48788 Wichita KS 67202  
 Co. Rep / Geo. Max Lovely Rig H2 #1  
 Location: Sec. 7 Twp. 20<sup>s</sup> Rge. 35<sup>w</sup> Co. Wichita State KS

Interval Tested 4495-4524 Zone Tested MARMATON  
 Anchor Length 29 Drill Pipe Run 4114 Mud Wt. 9.3  
 Top Packer Depth 4490 Drill Collars Run 371 Vis 53  
 Bottom Packer Depth 4495 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4524 Chlorides 2500 ppm System LCM 2

Blow Description 30-IFP-BOB 2min  
60-ISIP-BOB 7min  
45-FFP-BOB 2min  
90-FSIP-BOB 13min

| Rec         | Feet of          | %gas       | %oil | %water | %mud |
|-------------|------------------|------------|------|--------|------|
| <u>1760</u> | <u>Clean Oil</u> | <u>100</u> |      |        |      |
| Rec         | Feet of          | %gas       | %oil | %water | %mud |
| Rec         | Feet of          | %gas       | %oil | %water | %mud |
| Rec         | Feet of          | %gas       | %oil | %water | %mud |

Rec Total 1760 BHT 118 Gravity 30 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2298  Test 1225 T-On Location 13:43  
 (B) First Initial Flow 152  Jars 250 T-Started 16:23  
 (C) First Final Flow 425  Safety Joint 75 T-Open 18:58  
 (D) Initial Shut-In 921  Circ Sub 50 T-Pulled 22:43  
 (E) Second Initial Flow 435  Hourly Standby 2hrs 200 T-Out 04:35  
 (F) Second Final Flow 647  Mileage 60 RT 84 Comments \_\_\_\_\_  
 (G) Final Shut-In 912  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2047  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_

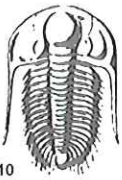
Initial Open 30  
 Initial Shut-In 60  
 Final Flow 45  
 Final Shut-In 90

Accessibility 150 Sub Total 2284 MP/DST Disc't \_\_\_\_\_  
 Sub Total 2134

Approved By [Signature]

Our Representative [Signature]

TriLOBITE TESTING Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
MAR 28 2012

## Test Ticket

NO. 46481

BY: \_\_\_\_\_

Well Name & No. Raymond Oil Company Test No. — Date 3-24-12  
 Company Holskins Ley #1 Elevation \_\_\_\_\_ KB \_\_\_\_\_ GL \_\_\_\_\_  
 Address P.O. Box 48788  
 Co. Rep / Geo. Max Lovely Rig H2 Rig 1  
 Location: Sec. 7 Twp. 20S Rge. 35W Co. Wichita State KS

Interval Tested \_\_\_\_\_ Zone Tested \_\_\_\_\_  
 Anchor Length \_\_\_\_\_ Drill Pipe Run \_\_\_\_\_ Mud Wt. \_\_\_\_\_  
 Top Packer Depth \_\_\_\_\_ Drill Collars Run \_\_\_\_\_ Vis \_\_\_\_\_  
 Bottom Packer Depth \_\_\_\_\_ Wt. Pipe Run \_\_\_\_\_ WL \_\_\_\_\_  
 Total Depth \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm System \_\_\_\_\_ LCM \_\_\_\_\_  
 Blow Description \_\_\_\_\_

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----|---------|------|------|--------|------|
|     |         |      |      |        |      |
|     |         |      |      |        |      |
|     |         |      |      |        |      |
|     |         |      |      |        |      |

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test \_\_\_\_\_ T-On Location \_\_\_\_\_  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started \_\_\_\_\_  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open \_\_\_\_\_  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled \_\_\_\_\_  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow \_\_\_\_\_  Mileage 100 RT 84 \_\_\_\_\_ Comments Loaded tools at 5:00 PM on 3-24-12  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Open \_\_\_\_\_  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 11600  
 Final Flow \_\_\_\_\_  Day Standby 2 days + 12 1/2 hrs Total 11684  
 Final Shut-In \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 84

Approved By \_\_\_\_\_ Our Representative Mike Roberts

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Max R. Lovely

**GEOLOGIST'S REPORT**

DRILLING TIME AND SAMPLE LOG

COMPANY **Raymond Oil Co.**  
 LEASE **Holstein - Ley #1**  
 FIELD **Wildcat**  
 LOCATION **SW NW NW NE**  
 SEC **7** TWP **20** R3E **35W**  
 COUNTY **Wichita** STATE **KS**

ELEVATIONS  
 KE **3196**  
 DE **3185**  
 MEASUREMENTS  
 FROM **KB**

CONTRACTOR **H2 #1**  
 START **3-15-2012** COMP **3-25-2012**  
 PTD **5153** DATE **5156**  
 ROD UP **3429** TYPE AND **Chem**

CASING  
 SURFACE **8 5/8 @ 264'**  
 PRODUCTION **4 1/2**  
 ELECTRICAL LOG  
**DF, MICRO**  
**COMP N/D**

FORMATION TOPS AND STRUCTURAL POSITION

| FORMATION      | WELL TOP | ELECTRIC LOG TOP | DISCREPANCY | STRUCTURAL POSITION |
|----------------|----------|------------------|-------------|---------------------|
| Base Anhydrite | 2318     |                  |             | 867                 |
| Stotler        | 3563     | 3554             | -377        | -365                |
| Heebner        | 3969     | 3970             | -774        | -782                |
| Lansing        | 4016     | 4017             | -821        | -829                |
| Stark          | NA       | NA               |             |                     |
| Marmaton       | 4504     | 4494             | -1298       | -1317               |
| Pawnee         | 4586     | 4593             | -1397       | -1404               |
| Myric Station  | 4624     | 4620             | -1433       | -1439               |
| Ft. Scott      | 4642     | 4647             | -1451       | -1454               |
| Cherokee       | 4671     | 4676             | -1480       | -1484               |
| Johnson        | 4718     | 4720             | -1524       | -1529               |
| Atoka          | 4764     | 4769             | -1573       | -1577               |
| Morrow Sh      | 4854     | 4847             | -1651       | -1685               |
| Mississippi    | 4869     | 4970             | -1774       | -1787               |

REFERENCE WELLS FOR STRUCTURE

A **Raymond GG Smith #1 NW NW SW 7-20-35W**  
 B  
 C

REMARKS: POSITIVE STRUCTURE AND DST TEST CAUSE THE HOLSTEIN-LEY #1  
TO HAVE 4 1/2" CASING SET.

RESPECTFULLY SUBMITTED

*M. R. Lane*

LEGEND

|  |           |       |                |           |           |           |            |            |            |
|--|-----------|-------|----------------|-----------|-----------|-----------|------------|------------|------------|
|  | Sandstone | Shale | Hydrated shale | Siltstone | Claystone | Oil shale | Clay shale | Clay shale | Clay shale |
|--|-----------|-------|----------------|-----------|-----------|-----------|------------|------------|------------|

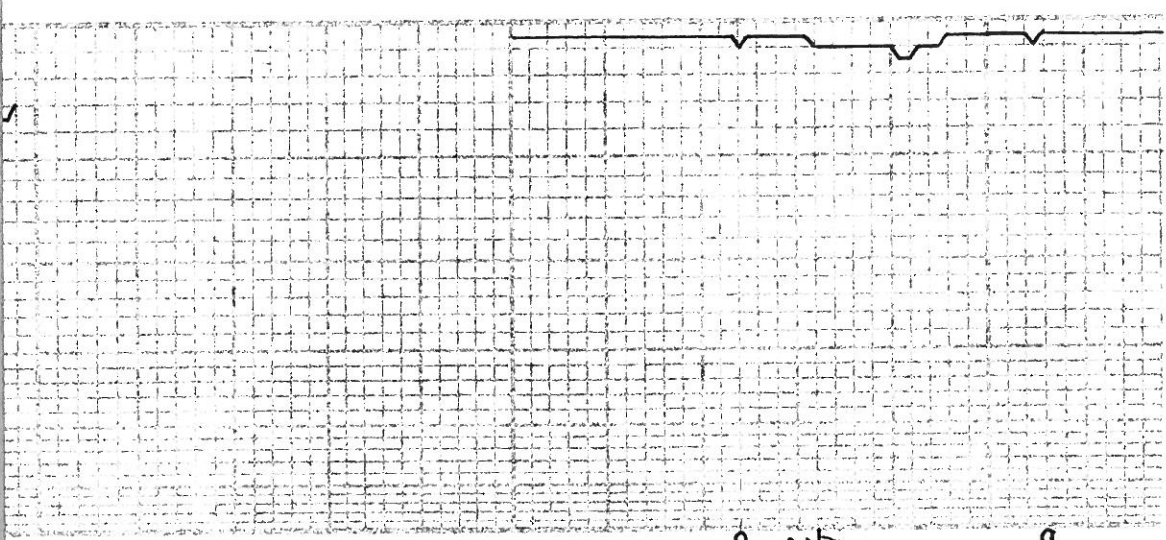
DRILLING TIME IN MINUTES  
PER FOOT  
of Interval (bottom)

0' 10' 20' 30'

OIL SHOWS

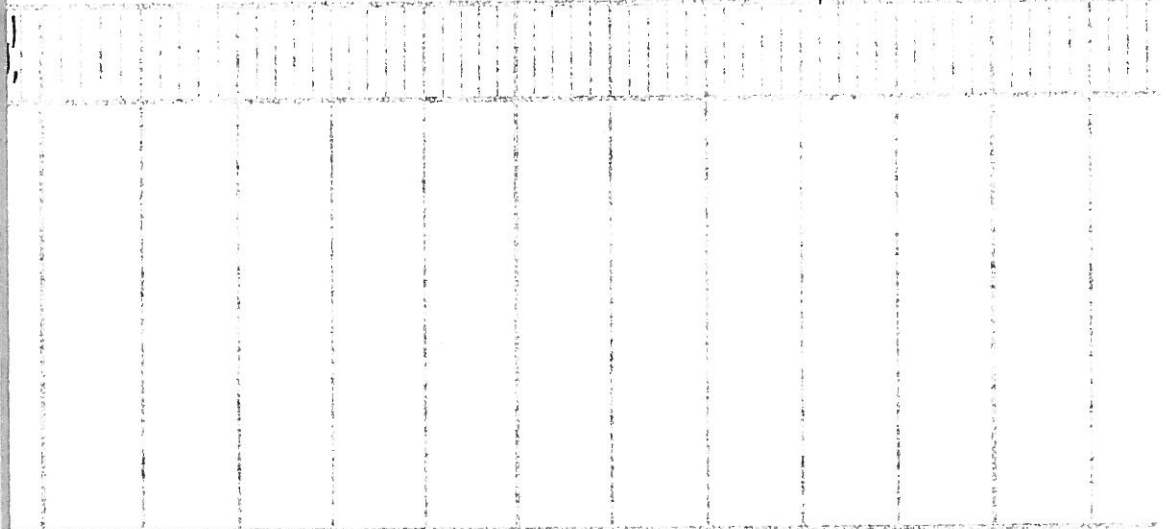
SAMPLE DESCRIPTIONS

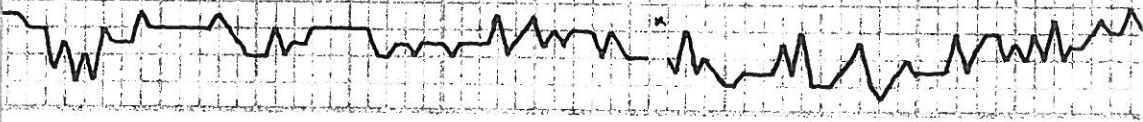
REMARKS



2300

BASE  
AMVDRITE  
2318 + 859



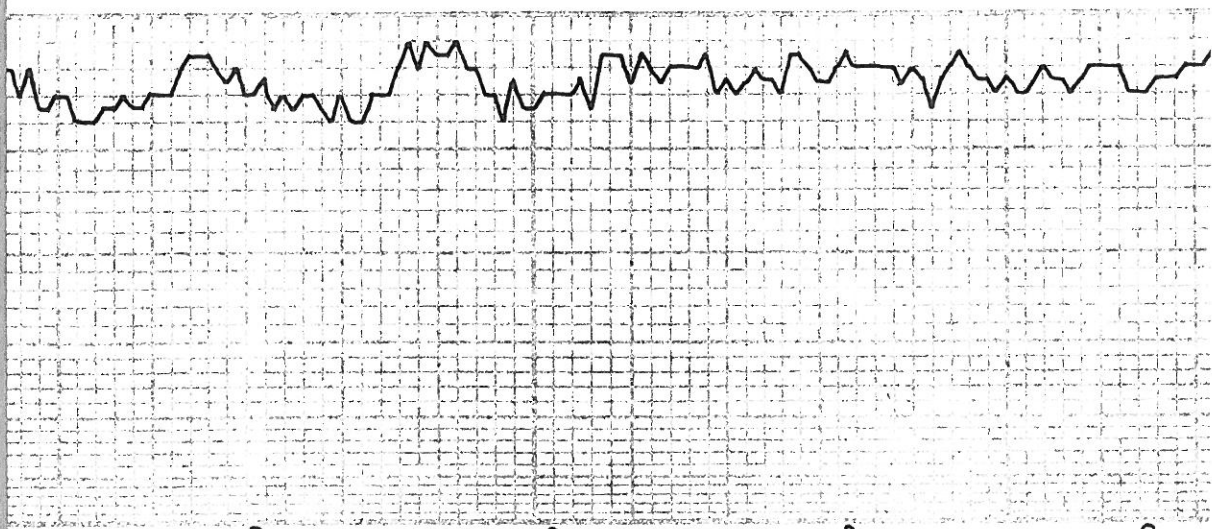


|         |                                      |   |             |         |      |  |
|---------|--------------------------------------|---|-------------|---------|------|--|
| SH, GRY | LS. WHT/GRY, SOFT, CHLKY<br>FOSS, NS | LS. CRM, BUFF, EXTLN, M HRD,<br>BRTL, FOSS, P, NS | SH, GRN/GRY | SH, GRY | A.A. | LS. WHT, CRM, VFXTLN, Pcs FOSS,<br>SOM HRD, NS |
|---------|--------------------------------------|---|-------------|---------|------|--|

3500

STOTLER  
3553-376





3600

3700

|                             |  |             |   |         |   |      |
|-----------------------------|--|-------------|---|---------|---|------|
| LS, WHT, F → M XTLW, BR TL. | LS, WHT, TAN, F → M XTLW, DNS, HRD, No APP ϕ, NS | SH, GRV/BRN | LS, GRY, F → M XTLW, CHLKY, SOFT F XTLW ϕ, NS | SH, GRY | LS, LT GRY/WHT, VE XTLW, DNS, HRD, TITE, NS | A.A. |
|-----------------------------|--|-------------|---|---------|---|------|

MUD CHECK  
 VIS 49 WT 8.7  
 CHLOR 3,200 LCM 4  
 FLIT 7.2

7:AM 3.19.12  
 DR LG @ 3700'

S → M HRD, F → G INT XTLN Ø NS

A.A.

LS, BLK/TAN, SPRD, SOFT,  
"ROTTEN" G XTLN Ø, NS

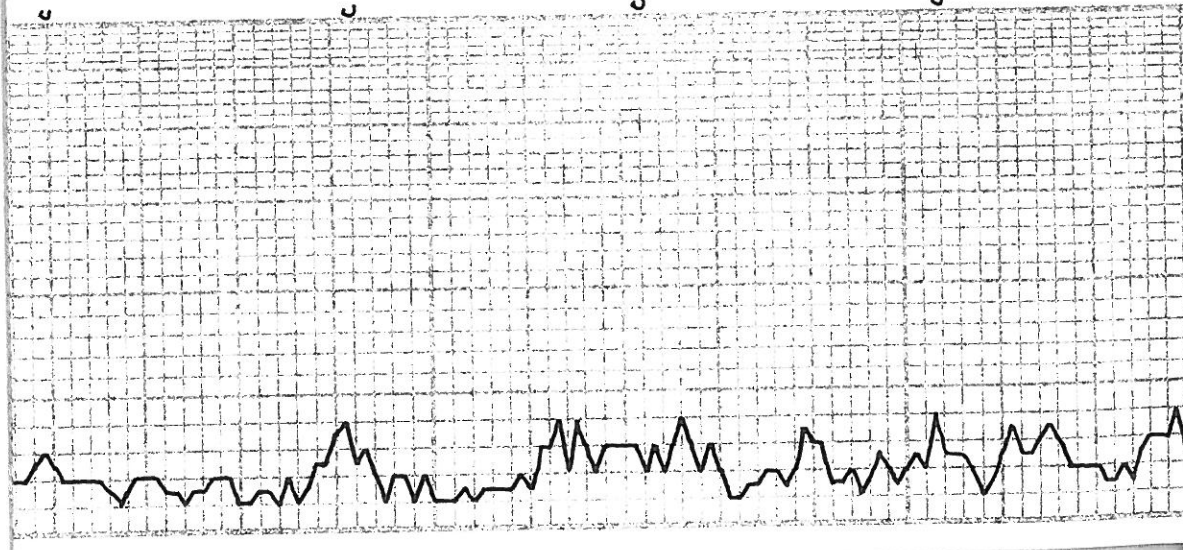
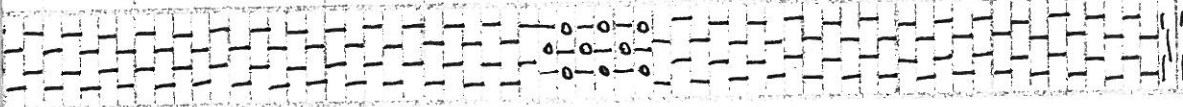
CHLK, LMY

LS, CRM, F → M XTLN, M HRD,  
VFEN FOSS, NO APP Ø, NS

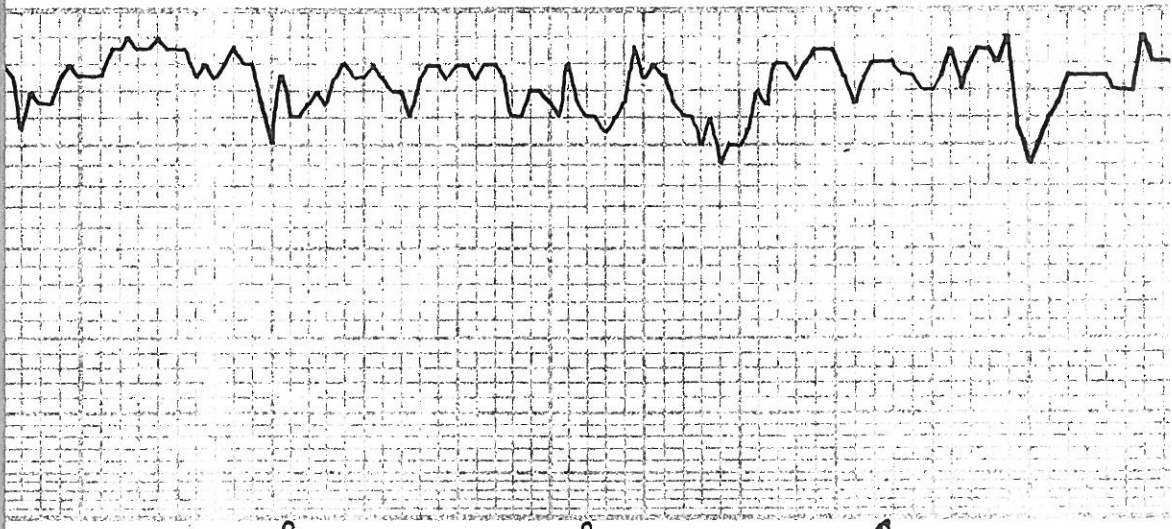
A.A. INCR FOSS

LS, TAN, A.A.

S.H. DK. G.R.Y.



3800



3900



LS, CRM, F → M XTLW, BRITL,  
SOFT, SCT FOSS, ROTTEN, NS

LS LTGRY, DK GRY, F → M  
XTLW, Pct V FOSS, NS

SH, BLK

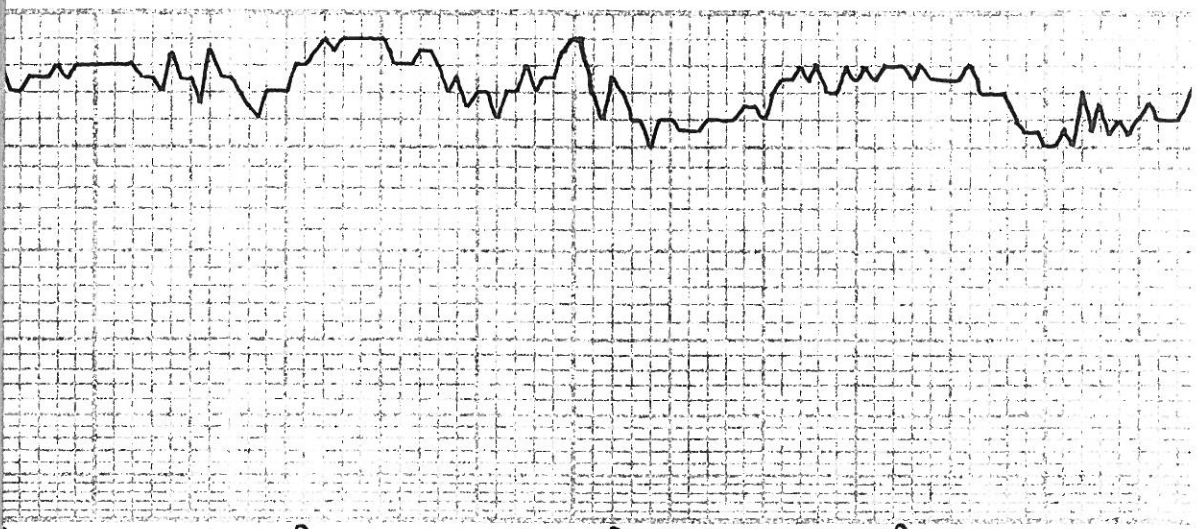
SH, GRY

LS, GRY, F XTLW, S → M HRD,  
SCT FOSS, ? P, NS

CHALK

CHT, WHT, V FOSS





4100

L5, TAN, CRM, DNS, FXTLW,  
CHLRY, NS

L5, TAN, CRM, BR, WHT,  
FXTLW, Δ CMTID Foss, SL  
OOL, ABUN Foss, TITE, NS

Δ Δ CHT, WHT, Pes OPAQ, FRESH,  
Foss, NS

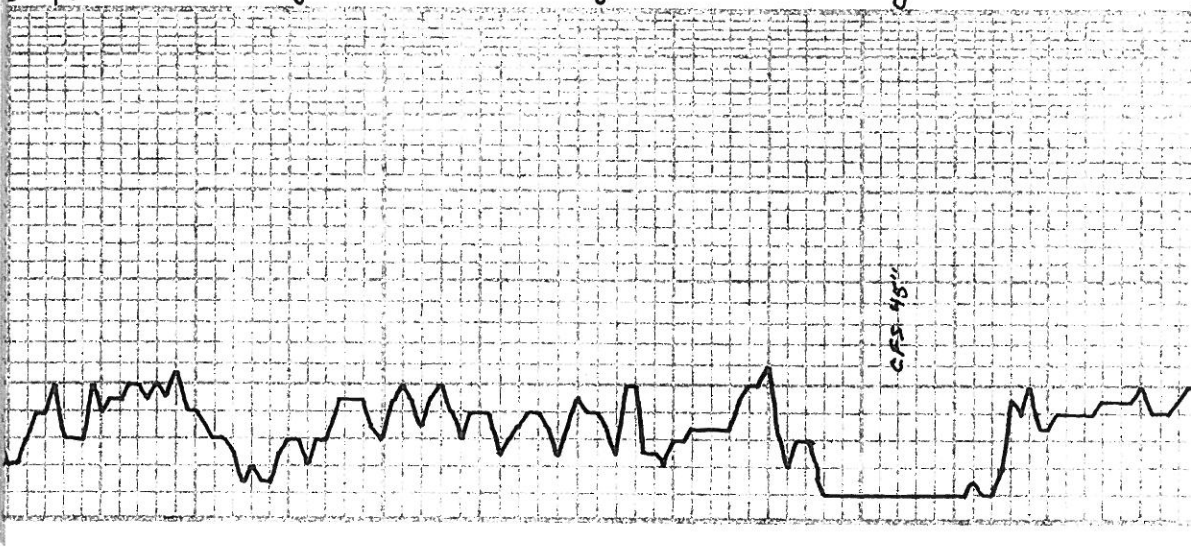
A.A.

4200



MUD CHECK  
wt 9.1  
CHLR 2800 LCMY  
FILT 7.2

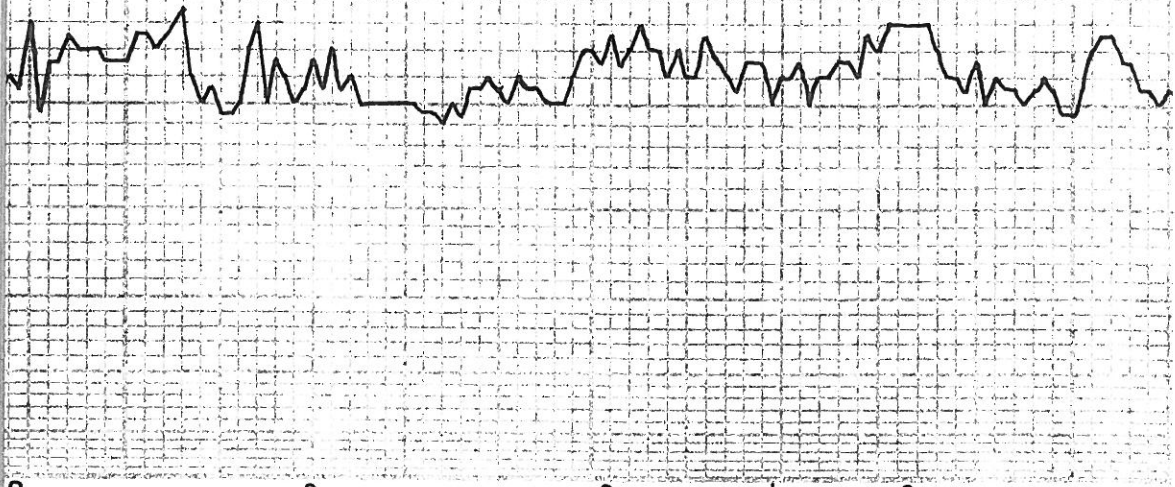
7:AM 3.20.2012  
DRLG @ 4161'



MUNCIE  
4215 - 1019

4300

|    |   |
|----|---|
| AA | SH, BLK, CARB                                     |
| AA | LS, WHT, EXT LN, S, 2M, HRD,<br>CHLKY, DNS, NS    |
| AA | CHT, GRY, ABUN FOSS, LMY,<br>TITE, NS             |
| AA | LS WHT, FXTLN, SOFT, CHLKY                        |
| AA |   |
| AA | LS, CRM, VFXTLN, 00M, SL OOL,<br>NO PERM, WET!    |
| AA | A.A., INCR OOLS                                   |
| AA | LS, CRM, VFXTLN, SET FOSS,<br>DNS, HARD, TITE, NS |



HUSHBUCKLEVIEW  
4381 - 1185

4400

A. A

L5, TAN, EXTIN, V HRD, ABOL  
FOSS, VW CMTID FOSS, TITE  
NS

L5, GRY, EXTIN, HRD, SCT  
FOSS CASTS, TITE, NS

L5, A. A.

L5, CRM, LT GRY, BUFE, VF  
XTLW, DMS, HRD, FOSS, TITE  
NS

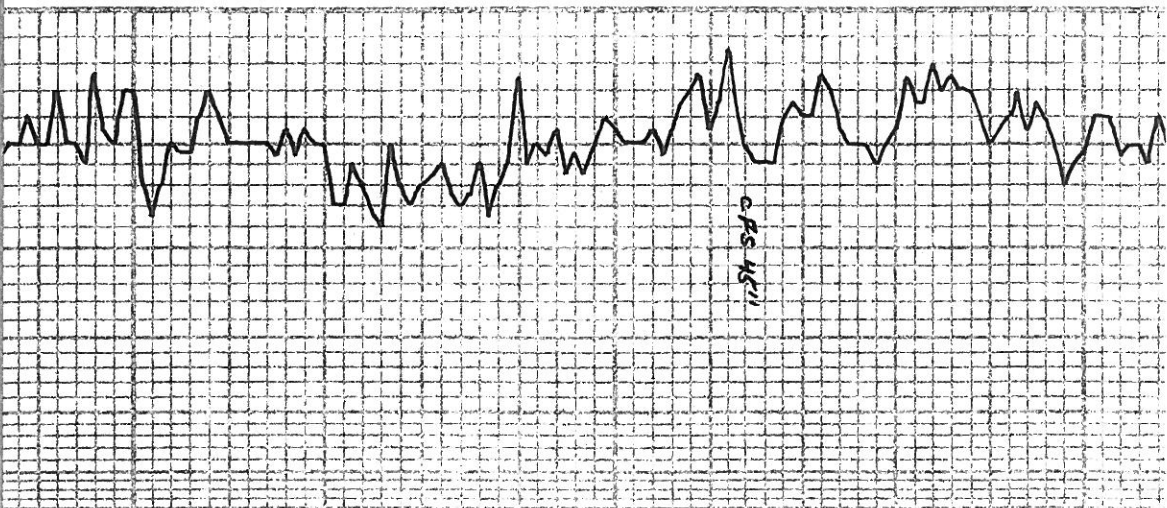
Doko, LT GRY, WHT, VE, XTLW,  
SL SOCR, V HRD, NO P. NS

L5, BRN, BUFE, VF XTLW CMT, V OOK,  
W CMTID OOKS, NO APP P. NS  
V HRD, P. S BR TL

L5, CRM, WHT, EXTIN, W CMTID  
DOKS, CHLKV ? LMY CHLK P. NS







4600

LS. CRM, BUFF, EXT LN, F X LN 2 LA  
XTLS W/ W. S → M HRD, CHLKY,  
SL CHLKY, NS  
SH, BLK

c

MYRIC

4624 - 1428

SH, GR/Y/BLK, LAM

CHT TAM, WHT, BUFF, PS ORG,  
SCT FOSS  
SH, BLK, GASSY

c

Ft. Scott

4642 - 1466

S. WHT, BUFEI, EXT LN, M HRD,  
NO APP, NS

CHEROKEE  
4671 - 1475

SH, BLK

LS. GR/Y, TAM, V EXT LN, V DNS,  
V HRD, W CMT'D FOSS, TITE  
NS

c

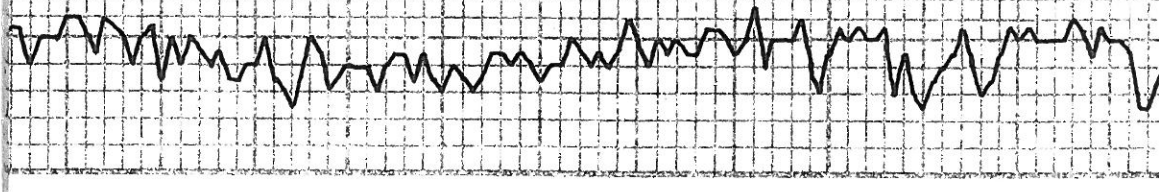
4700

LS. TAM, BRN, V EXT LN, V DNS,  
V HRD, SCT FOSS W/ W, TITE  
NS

CASSY

MUD PUMP OUT  
DRILLING. LOWER  
STROKES

MUD PUMP Down. 12 HRS  
7:14M 3.23.12  
MUD PUMP REPAIR  
4679'



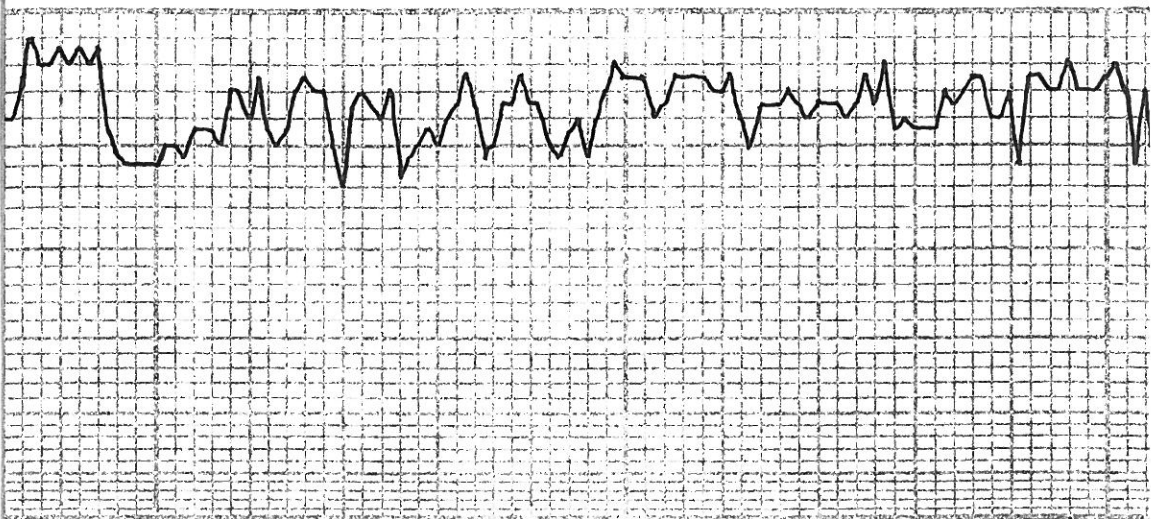
JOHNSON  
4718-1522

ATAKA  
4764-1568

4800

|      |  |  |         |                      |                                 |  |         |  |
|------|--|--|---------|----------------------|---------------------------------|--|---------|--|
| A.A. | LS. CRM, SOFT, CHLKY, BLK SH<br>SPKS W/N, G.B., NS | LS. TAN, BRN, VEXILN, QPAQ<br>XTLS, BRITL, NO APPP, ?<br>FRACS, NS | SH, BLK | CHLK, WHT, BLK SPT'D | LS WHT, CRM, FXTLN, FOSS,<br>NS | A.A. CHT, BLK, WHT, BLK/WHT,<br>FOSS<br>A.A.<br>A.A. | SH, BLK | LS, GRK, BRN, FXTLN, FOSS,<br>HRD, DUS, TITE, NS |
|------|--|--|---------|----------------------|---------------------------------|--|---------|--|

MUD CHECK  
VIS 48 WTR. 3  
CHDR 6, 100 LCM1  
FILT 10



WILLOW SH  
4854-1458

4900

SH, DK GRY, BLK

LS CRM, EXT LW, BR TTL,  
MHRD, SL FOSS, NS

SH, DK GRY, SCLTY

LS TAN, DTY, SL HRD, NS

SH, GRY, GRN

SH, VARI COLOR

SS, WHT, TAN, CLR GRMS, HRD,  
SUBANG GRMS, W SORT, F Ø  
NS  
PCS, FRIABLE, G Ø

7:44 AM 3.24.12  
DRLG@4452'

MISS  
4969-1773

5000

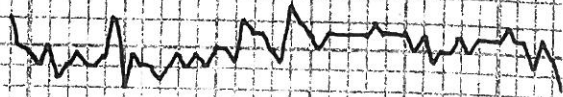
|   |   |            |                              |   |   |                                   |                                       |
|---|---|------------|------------------------------|---|---|-----------------------------------|---------------------------------------|
| LS, TAN, VF XTLW, DNS, BRTL,<br>SL FOSS, NS | LS, BRN, VF XTLW, HRD, DNS,<br>VW CMTD PELS, TITE, NS | CMT, PEACH | CMT, PEACH, TAN, BRN WHT/BLK | CMT, GRN, GRNLR, REV ANG PLS,<br>CMTD P, NO APP P, NS | SS, BRN, SLTY, S M HRD, F+G<br>CMTD, P, PYR, NS | LS, CRM, TAN, VF XTLW, HRD,<br>NS | LS, TAN, VF XTLW, V DNS, Y HRD,<br>NS |
|---|---|------------|------------------------------|---|---|-----------------------------------|---------------------------------------|

MUD CHECK  
VIS 53 WT 9.5  
CHLOR 6,000, LCM 2  
FILT 8.4



5100

C DEV 10



MINING LOGS

LS, TAN, A.A.

LS, BRN, FXTLN, HRD, V FEW,  
FOSS, NO APP, NS

LS, CRN, FXTLN, SL SOFT,  
TR CHLK, NS

7:AM 3.25.12  
PREP TD LOG



**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 34451

LOCATION Oakley, KS

FOREMAN Walt Dunkel

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  |
|------------------------------------|------------|--------------------|------------------------------------|-----------------|-----------------|---------|
| 3-25-12                            | 7158       | Holstein-Lay #1    | 7                                  | 20 <sup>S</sup> | 35 <sup>W</sup> | Wichita |
| CUSTOMER<br><u>Raymond Oil Co.</u> |            |                    | Mailing Address<br><u>Marathon</u> |                 |                 |         |
| CITY                               |            |                    | STATE                              |                 | ZIP CODE        |         |
| MATERIALS                          |            |                    | TRUCK #                            | DRIVER          | TRUCK #         | DRIVER  |
|                                    |            |                    | 105                                |                 |                 |         |
|                                    |            |                    | 1/2 W                              |                 |                 |         |
|                                    |            |                    | S.S.                               |                 |                 |         |
|                                    |            |                    | 399 -                              | Damon Miller    |                 |         |
|                                    |            |                    | 460 -                              | Bobby Steinet   |                 |         |
|                                    |            |                    | 466-T129                           | Wes Flann       |                 |         |

JOB TYPE Prod-DY HOLE SIZE 7 7/8 HOLE DEPTH 5153' CASING SIZE & WEIGHT 4 1/2 - 10 lb #  
 CASING DEPTH 5144' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DY 2234'  
 SLURRY WEIGHT 14.2-12.5 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 81 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting, rig up on H<sub>2</sub> #1, Run Float Equipment, Cost-1-3-5-9-11-13  
59, DY on #54, Basket on 54, circ casing on bottom, 30 min  
mix 225 sks 60% per, 7 1/2% salt, 2% cel, clear Pump + Lines, release Plug  
+ Displaced .50 BBL water + 31 mud @ 900 #, landed Plug @ 1500 #  
release Pressure, Float Held,  
open DY Tool, establish circ, mixed 30 sks in RH + 20 sks in MH.  
Mixed 400 sks 60% per, 8% cel, 1/4" Fla-Sal, released Plug + Displaced 45 BBL  
@ 800 #, close DY Tool @ 1600 #  
Cement Dial Circ.

Thank You  
Walt + crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL     |
|--------------|-------------------|------------------------------------|------------|-----------|
| 5401C        | 1                 | PUMP CHARGE                        | 3020.00    | 3020.00   |
| 5406         | 60                | MILEAGE                            | 5.00       | 300.00    |
| 1131         | 225 sks           | 60% per, Bottom Stage              | 15.10      | 3,397.50  |
| 1131         | 450 sks           | 60% per, Top Stage                 | 15.10      | 6,795.00  |
| 1111         | 795 #             | Salt                               | .45        | 357.75    |
| 1118B        | 3096 #            | Bentonite                          | .25        | 774.00    |
| 1107         | 113 #             | Fla-sal                            | 2.82       | 318.66    |
| 5402A        | 29.03             | Tan Mileage Delivery               | 1.67       | 2,905.80  |
| 4161         | 1                 | 4 1/2 - AFU Float shoe             | 342.00     | 342.00    |
| 4129         | 7                 | 4 1/2 - Centralizers               | 46.00      | 322.00    |
| 4103         | 1                 | 4 1/2 - Basket                     | 261.00     | 261.00    |
| 4283         | 1                 | 4 1/2 - DY Tool w/ Catch           | 385.00     | 385.00    |
|              |                   |                                    |            | 22,646.71 |
|              |                   | Less 10% Disc                      |            | 2,264.67  |
|              |                   |                                    |            | 20,382.04 |
|              |                   | 248571                             | SALES TAX  | 1226.42   |
|              |                   |                                    | ESTIMATED  |           |
|              |                   |                                    | TOTAL      | 21608.46  |

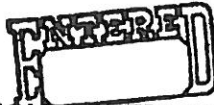
Flavin 3737

AUTHORIZATION Walt Dunkel 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



TICKET NUMBER 36358

LOCATION OAKLEY

FOREMAN Kevin McCoy

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

**FIELD TICKET & TREATMENT REPORT**

CEMENT API # 15-203-20172

KS

| DATE                              | CUSTOMER # | WELL NAME & NUMBER | SECTION           | TOWNSHIP | RANGE   | COUNTY  |
|-----------------------------------|------------|--------------------|-------------------|----------|---------|---------|
| 3-30-12                           | 7158       | Holstein Ley #1    | 7                 | 205      | 35W     | Wichita |
| CUSTOMER<br>RAYMOND OIL Co.       |            |                    | H2 DRIg.<br>Rig 1 |          |         |         |
| MAILING ADDRESS<br>P.O. Box 48788 |            |                    | TRUCK #           | DRIVER   | TRUCK # | DRIVER  |
| CITY<br>Wichita                   |            |                    | 463               | Josh G.  |         |         |
| STATE<br>KS                       |            |                    | 439               | Merle R. |         |         |
| ZIP CODE<br>67202                 |            |                    |                   |          |         |         |

JOB TYPE SURFACE HOLE SIZE 12 1/4" HOLE DEPTH 267' CASING SIZE & WEIGHT 8 5/8 23 #  
 CASING DEPTH 265' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 54 BBL WATER gal/sk 6.5 CEMENT LEFT in CASING 20'  
 DISPLACEMENT 15.5 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: SAFETY Meeting: Rig up to 8 5/8 Csg. BREAK Circulation. MIXED 225 sks CLASS "A" Cement w/ 3% CaCl2, 2% Gel @ 14.8 #/gal. Displace w/ 15.5 BBL Fresh water. Shut Casing IN. Cement in Lower Cellar. Job Complete. Rig down.

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL                   |
|--------------|-------------------|------------------------------------|------------|-------------------------|
| 54015        | 1                 | PUMP CHARGE                        | 1085.00    | 1085.00                 |
| 5406         | 60                | MILEAGE                            | 5.00       | 300.00                  |
| 11045        | 225 sks           | CLASS "A" Cement                   | 17.65      | 3971.25                 |
| 1102         | 635 #             | CaCl2 3%                           | .89        | 565.15                  |
| 1118 B       | 425 #             | Gel 2%                             | .25        | 106.25                  |
| 5407A        | 10.58 Tons        | Ton Mileage Bulk Delv.             | 1.67       | 1060.12                 |
|              |                   |                                    |            | 7087.77                 |
|              |                   |                                    | Less 10%   | 708.78                  |
|              |                   |                                    | Sub Total  | 6378.99                 |
|              |                   | 248730                             |            |                         |
|              |                   | THANK you                          | 8.3%       | SALES TAX 346.81        |
|              |                   |                                    |            | ESTIMATED TOTAL 6725.80 |

Ravin 3737

AUTHORIZATION Josi Carlos Fabela

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.

