

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

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

9/16/12

OPERATOR: License # 5046  
Name: Raymond Oil Company, Inc.  
Address 1: PO BOX 48788  
Address 2: \_\_\_\_\_  
City: Wichita State: KS Zip: 67202  
Contact Person: Ted McHenry  
Phone: (316) 267-4214  
CONTRACTOR: License # 30606  
Name: Murfin Drilling Co.  
Wellsite Geologist: Max Lovely  
Purchaser: \_\_\_\_\_

SEP 13 2010

**CONFIDENTIAL**

RECEIVED

SEP 17 2010

KCC WICHITA

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 #: \_\_\_\_\_

06/08/2010    06/18/2010    06/20/2010  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 203-20155-0000  
Spot Description: \_\_\_\_\_  
\_\_\_\_\_NE SE Sec. 17 Twp. 20 S. R. 35  East  West  
2,140 Feet from  North /  South Line of Section  
628 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Wichita  
Lease Name: Eder Well #: 3  
Field Name: Sand Creek  
Producing Formation: \_\_\_\_\_  
Elevation: Ground: 3116 Kelly Bushing: 3127  
Total Depth: 5047 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 268 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: 18,000 ppm Fluid volume: 1,400 bbls  
Dewatering method used: Hauled  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: Cheyenne Oil Service Inc.  
Lease Name: Pinka License #: 7146  
Quarter \_\_\_\_\_ Sec. 33 Twp. 17 S. R. 30  East  West  
County: Lane Permit #: D19779

**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.

**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.

Signature: Ted McHenry  
Title: Geologist Date: 9/16/2010

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
Date: 9/16/10 - 9/16/12  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: ASJ Date: 9-27-10  
PA

3333  
242

Operator Name: Raymond Oil Company, Inc. Lease Name: Eder Well #: 3  
 Sec. 17 Twp. 20 S. R. 35  East  West County: Wichita

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: Sonic, Micro, DI, Corrected N/D	<input checked="" type="checkbox"/> Log    Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>B/Anh</td> <td>2256</td> <td>871</td> </tr> <tr> <td>Heeb</td> <td>3919</td> <td>-792</td> </tr> <tr> <td>B/KC</td> <td>4431</td> <td>-1304</td> </tr> <tr> <td>Cher</td> <td>4602</td> <td>-1475</td> </tr> <tr> <td>St. Gen</td> <td>4916</td> <td>-1789</td> </tr> </table>	Name	Top	Datum	B/Anh	2256	871	Heeb	3919	-792	B/KC	4431	-1304	Cher	4602	-1475	St. Gen	4916	-1789
Name	Top	Datum																	
B/Anh	2256	871																	
Heeb	3919	-792																	
B/KC	4431	-1304																	
Cher	4602	-1475																	
St. Gen	4916	-1789																	

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
Surface	12 1/4"	8 5/8	24lb	253.4	Common	190	3% cc, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	RECEIVED		
	SEP 17 2010		
	KCC WICHITA		

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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil    Bbls.	Gas    Mcf	Water    Bbls.    Gas-Oil Ratio    Gravity

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

# ALLIED CEMENTING CO., LLC. 038887

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Oakley

DATE <u>6/20/10</u>	SEC <u>6</u>	TWP <u>20</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION <u>7:00am</u>	JOB START <u>10:30am</u>	JOB FINISH <u>11:30am</u>
LEASE <u>Elder</u>	WELL # <u>3</u>	LOCATION <u>Marienthol 115 sec N=</u>			COUNTY <u>Wichita</u>	STATE <u>KI</u>	
OLD OR <u>NEW</u> (Circle one)				<u>EINTO</u>			

CONTRACTOR Murkin 21

TYPE OF JOB PTO

HOLE SIZE 7 7/8 T.D.

CASING SIZE 8 5/8 DEPTH 268'

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Some

CEMENT

AMOUNT ORDERED 290 SKs 60/40  
407 gel 1/4 16 Plo Seal

COMMON	<u>174</u>	@	<u>15.45</u>	<u>2688.30</u>
POZMIX	<u>116</u>	@	<u>8.00</u>	<u>928.00</u>
GEL	<u>10</u>	@	<u>20.80</u>	<u>208.00</u>
CHLORIDE		@		
ASC		@		
<u>Plo Seal 73 lb</u>		@	<u>2.50</u>	<u>182.50</u>
HANDLING <u>303 SKs</u>		@	<u>2.40</u>	<u>727.20</u>
MILEAGE <u>10 @ SK/mile</u>		@		<u>212.00</u>
TOTAL				<u>6855.00</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER Alan

# 422 HELPER Wayne

BULK TRUCK

# 374 DRIVER LaRene

BULK TRUCK

# DRIVER

**REMARKS:**

<u>50 SKs @ 22.90'</u>	RECEIVED
<u>80 SKs @ 11.70'</u>	SEP 17 2010
<u>40 SKs @ 6.00'</u>	
<u>50 SKs @ 2.80'</u>	
<u>20 SKs @ 6.0'</u>	KCC WICHITA
<u>30 SKs @ Rat Hole</u>	
<u>20 SKs @ Mouse Hole</u>	

CHARGE TO: Raymond Oil

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB	<u>22.50'</u>
PUMP TRUCK CHARGE	<u>1185.00</u>
EXTRA FOOTAGE	@ _____
MILEAGE <u>70 miles</u>	@ <u>7.00</u> <u>490.00</u>
MANIFOLD	@ _____
TOTAL <u>1675.00</u>	

**PLUG & FLOAT EQUIPMENT**

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
TOTAL _____	

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Jean Thoro

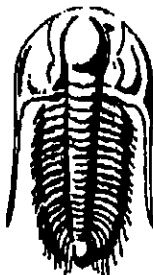
SIGNATURE \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co Inc**

PO Box 48788  
Wichita, Ks  
67201

SEP 17 2010  
CONFIDENTIAL

ATTN: Max Lovely

**17-20-35 Wichita, Ks**

**Eder #3**

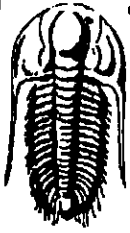
Start Date: 2010.06.13 @ 19:45:41

End Date: 2010.06.14 @ 05:00:56

Job Ticket #: 039127          DST #: 1

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

RECEIVED  
SEP 17 2010  
KCC WICHITA



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Raymond Oil Co Inc  
PO Box 48788  
Wichita, Ks  
67201  
ATTN: Max Lovely

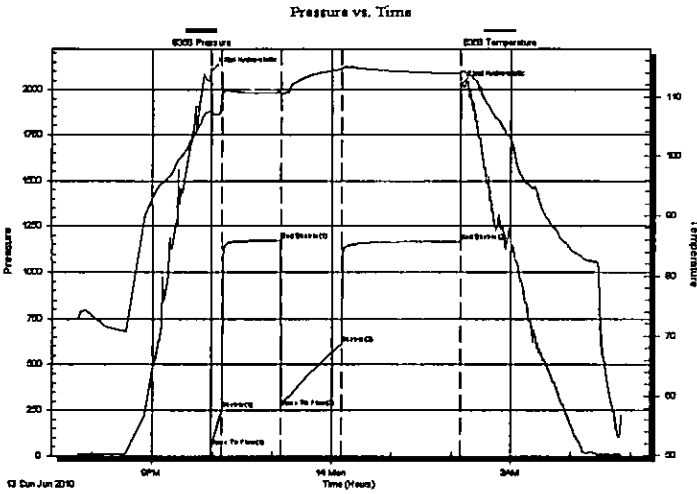
**Eder #3**  
**17-20-35 Wichita, Ks**  
Job Ticket: 039127      DST#: 1  
Test Start: 2010.06.13 @ 19:45:41

**GENERAL INFORMATION:**

Formation: **Lans 160-180**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 21:58:56  
Time Test Ended: 05:00:56  
Interval: **4235.00 ft (KB) To 4291.00 ft (KB) (TVD)**  
Total Depth: **4433.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Straddle**  
Tester: **Shane McBride**  
Unit No: **40**  
Reference Elevations: **3127.00 ft (KB)**  
**3116.00 ft (CF)**  
KB to GR/CF: **11.00 ft**

**Serial #: 8368**      **Inside**  
Press@RunDepth: **611.39 psig @ 4236.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.06.13**      End Date: **2010.06.14**      Last Calib.: **2010.06.14**  
Start Time: **19:45:41**      End Time: **04:51:56**      Time On Btm: **2010.06.13 @ 21:58:41**  
Time Off Btm: **2010.06.14 @ 02:09:11**

**TEST COMMENT:** B.O.B. in 7 min  
No return  
B.O.B. in 9 min  
No return



**PRESSURE SUMMARY**

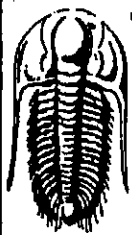
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.64	107.56	Initial Hydro-static
1	49.83	106.74	Open To Flow (1)
11	256.38	110.33	Shut-In(1)
70	1173.43	110.85	End Shut-In(1)
71	267.81	110.55	Open To Flow (2)
131	611.39	114.58	Shut-In(2)
251	1168.80	113.91	End Shut-In(2)
251	2028.03	114.22	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
956.00	water 100%w	8.46
186.00	s m c w 15% m 85% w	2.61
148.00	m c w 50% m 50% w	2.08

**Gas Rates**

	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Co Inc

**Eder #3**

PO Box 48788

**17-20-35 Wichita, Ks**

Wichita, Ks

Job Ticket: 039127

**DST#: 1**

67201

ATTN: Max Lovely

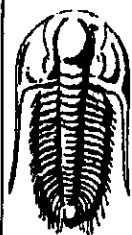
Test Start: 2010.06.13 @ 19:45:41

### Tool Information

Drill Pipe:	Length: 3678.00 ft	Diameter: 3.80 inches	Volume: 51.59 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 110000.0 lb
			<b>Total Volume: 54.26 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4235.00 ft			Final 91000.00 lb
Depth to Bottom Packer:	4291.00 ft			
Interval between Packers:	56.00 ft			
Tool Length:	226.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4209.00	
Shut In Tool	5.00			4214.00	
Hydraulic tool	5.00			4219.00	
Jars	5.00			4224.00	
Safety Joint	2.00			4226.00	
Packer	5.00			4231.00	27.00 Bottom Of Top Packer
Packer	4.00			4235.00	
Stubb	1.00			4236.00	
Recorder	0.00	6771	Outside	4236.00	
Recorder	0.00	8368	Inside	4236.00	
Perforations	3.00			4239.00	
Change Over Sub	1.00			4240.00	
Drill Pipe	31.00			4271.00	
Change Over Sub	1.00			4272.00	
Perforations	15.00			4287.00	
Blank Off Sub	1.00			4288.00	
top of s packer	3.00			4291.00	56.00 Tool Interval
Packer	1.00			4292.00	
Stubb	1.00			4293.00	
Perforations	8.00			4301.00	
Change Over Sub	1.00			4302.00	
Recorder	0.00	6667	Inside	4302.00	
Drill Pipe	126.00			4428.00	
Change Over Sub	1.00			4429.00	
Bullnose	5.00			4434.00	143.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>226.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co Inc

**Eder #3**

PO Box 48788  
Wichita, Ks  
67201

**17-20-35 Wichita, Ks**

Job Ticket: 039127 **DST#: 1**

ATTN: Max Lovely

Test Start: 2010.06.13 @ 19:45:41

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.91 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohmm

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
956.00	water 100%w	8.464
186.00	s m c w 15% m 85% w	2.609
148.00	m c w 50% m 50% w	2.076

Total Length: 1290.00 ft

Total Volume: 13.149 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

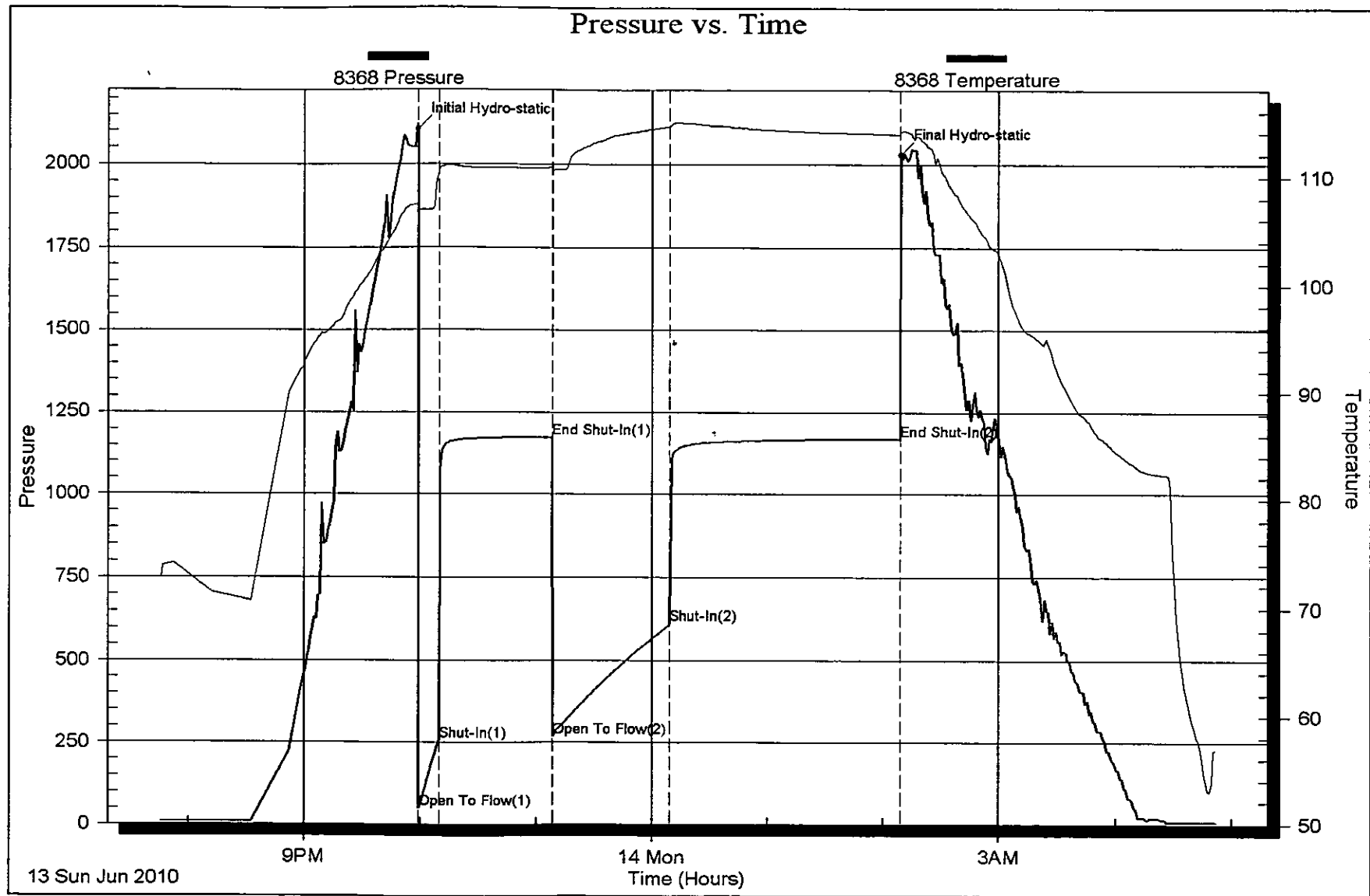
Serial #:

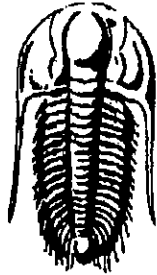
Laboratory Name:

Laboratory Location:

Recovery Comments: rw .325 @ 64°f = 23,000 chlor







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co Inc**

PO Box 48788  
Wichita, Ks  
67201

ATTN: Max Lovely

**17-20-35 Wichita, Ks**

**Eder #3**

Start Date: 2010.06.14 @ 12:20:20

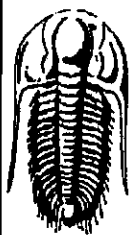
End Date: 2010.06.14 @ 21:30:35

Job Ticket #: 039128          DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Raymond Oil Co Inc

Eder #3

PO Box 48788

17-20-35 Wichita, Ks

Wichita, Ks

Job Ticket: 039128

DST#: 2

67201

Test Start: 2010.06.14 @ 12:20:20

ATTN: Max Lovely

### GENERAL INFORMATION:

Formation: **Marmaton A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:56:20

Time Test Ended: 21:30:35

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **4461.00 ft (KB) To 4470.00 ft (KB) (TVD)**

Reference Elevations: 3127.00 ft (KB)

Total Depth: 4470.00 ft (KB) (TVD)

3116.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6771** Outside

Press@RunDepth: 19.77 psig @ 4462.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.06.14 End Date: 2010.06.14

Last Calib.: 2010.06.14

Start Time: 12:20:20 End Time: 21:14:35

Time On Btm: 2010.06.14 @ 14:56:05

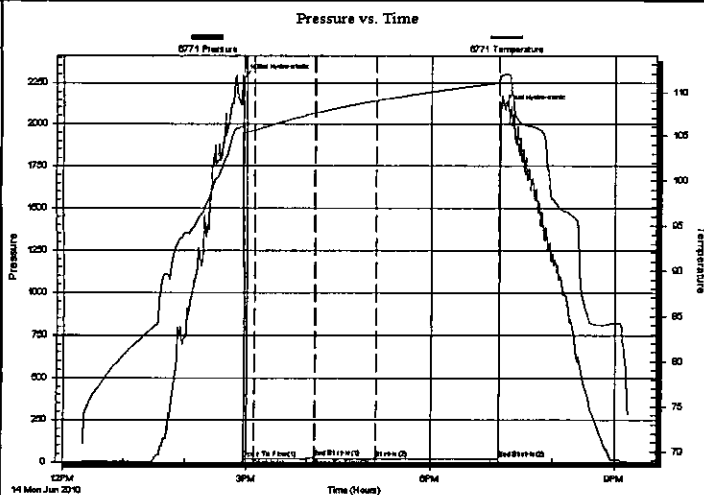
Time Off Btm: 2010.06.14 @ 19:08:05

TEST COMMENT: Weak surface blow ,died in 7 min.

No return

No blow

No return



### PRESSURE SUMMARY

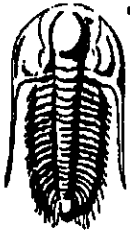
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2277.25	106.05	Initial Hydro-static
1	19.27	105.17	Open To Flow (1)
11	19.68	105.64	Shut-In(1)
71	24.68	107.54	End Shut-In(1)
71	19.96	107.55	Open To Flow (2)
131	19.77	109.00	Shut-In(2)
252	22.01	111.03	End Shut-In(2)
252	2096.79	111.74	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% m	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Co Inc

**Eder #3**

PO Box 48788  
Wichita, Ks  
67201

**17-20-35 Wichita, Ks**

Job Ticket: 039128

**DST#: 2**

ATTN: Max Lovely

Test Start: 2010.06.14 @ 12:20:20

### Tool Information

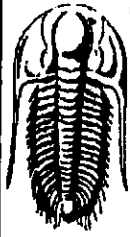
Drill Pipe:	Length: 3896.00 ft	Diameter: 3.80 inches	Volume: 54.65 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume: 57.32 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4461.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4435.00	
Shut In Tool	5.00			4440.00	
Hydraulic tool	5.00			4445.00	
Jars	5.00			4450.00	
Safety Joint	2.00			4452.00	
Packer	5.00			4457.00	27.00 Bottom Of Top Packer
Packer	4.00			4461.00	
Stubb	1.00			4462.00	
Recorder	0.00	6771	Outside	4462.00	
Recorder	0.00	8368	Inside	4462.00	
Perforations	3.00			4465.00	
Recorder	0.00	6667	Inside	4465.00	
Bullnose	5.00			4470.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 36.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co Inc  
PO Box 48788  
Wichita, Ks  
67201  
ATTN: Max Lovely

**Eder #3**  
**17-20-35 Wichita, Ks**  
Job Ticket: 039128      **DST#: 2**  
Test Start: 2010.06.14 @ 12:20:20

**Mud and Cushion Information**

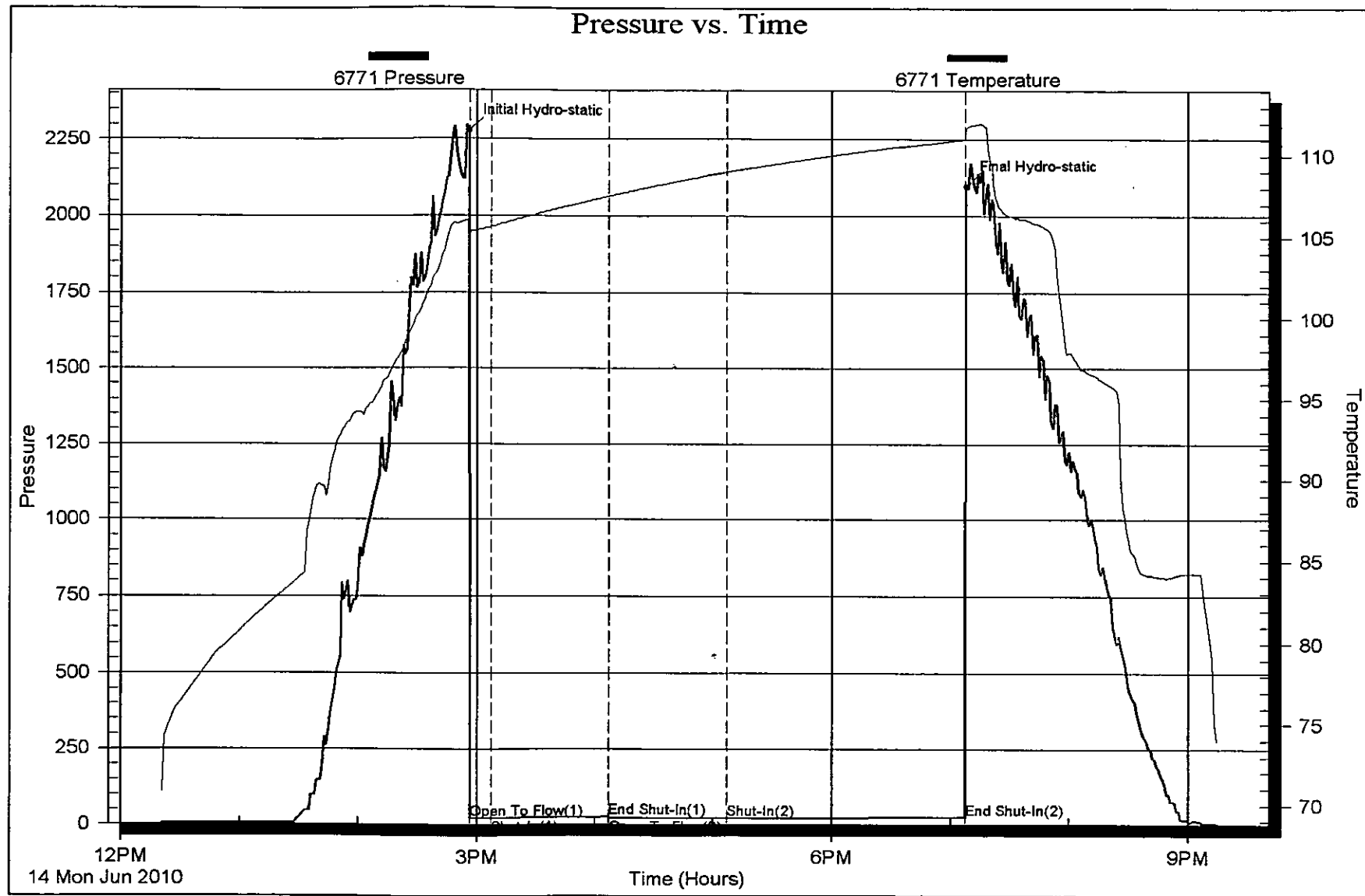
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.72 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

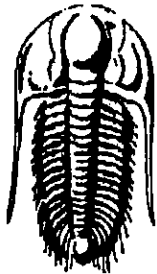
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100% <sub>m</sub>	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co Inc**

PO Box 48788  
Wichita, Ks  
67201

ATTN: Max Lovely

**17-20-35 Wichita, Ks**

**Eder #3**

Start Date: 2010.06.15 @ 05:10:43

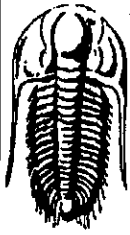
End Date: 2010.06.15 @ 13:58:58

Job Ticket #: 039129          DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Raymond Oil Co Inc

Eder #3

PO Box 48788  
Wichita, Ks  
67201

17-20-35 Wichita, Ks

Job Ticket: 039129

DST#: 3

ATTN: Max Lovely

Test Start: 2010.06.15 @ 05:10:43

### GENERAL INFORMATION:

Formation: **Marmaton B**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 07:06:28  
Time Test Ended: 13:58:58

Test Type: Conventional Bottom Hole  
Tester: Shane McBride  
Unit No: 40

Interval: **4468.00 ft (KB) To 4508.00 ft (KB) (TVD)**  
Total Depth: **4508.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **3127.00 ft (KB)**  
**3116.00 ft (CF)**  
KB to GR/CF: **11.00 ft**

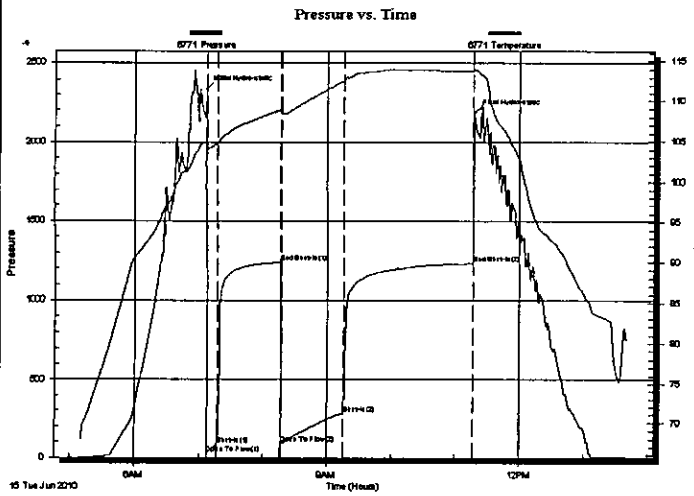
### Serial #: 6771

Outside

Press@RunDepth: 278.06 psig @ 4469.00 ft (KB)  
Start Date: 2010.06.15 End Date: 2010.06.15  
Start Time: 05:10:43 End Time: 13:40:58

Capacity: 8000.00 psig  
Last Calib.: 2010.06.15  
Time On Btm: 2010.06.15 @ 07:05:58  
Time Off Btm: 2010.06.15 @ 11:18:13

TEST COMMENT: 4" in blow  
No return  
8 1/2" in blow  
No return



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2337.83	104.88	Initial Hydro-static
1	26.52	104.25	Open To Flow (1)
11	83.09	104.81	Shut-In(1)
71	1237.76	108.84	End Shut-In(1)
71	88.35	108.45	Open To Flow (2)
130	278.06	112.69	Shut-In(2)
251	1230.02	113.89	End Shut-In(2)
253	2180.82	113.93	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
243.00	s m c w 10% m 90% w	1.20
180.00	w c m 40% w 60% m	0.89
125.00	w c m 25% w 75% m	0.66

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Co Inc

**Eder #3**

PO Box 48788  
Wichita, Ks  
67201

**17-20-35 Wichita, Ks**

Job Ticket: 039129

**DST#: 3**

ATTN: Max Lovely

Test Start: 2010.06.15 @ 05:10:43

## Tool Information

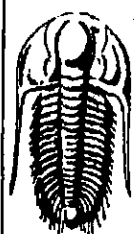
Drill Pipe:	Length: 3927.00 ft	Diameter: 3.80 inches	Volume: 55.09 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 57.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	4468.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4442.00	
Shut In Tool	5.00			4447.00	
Hydraulic tool	5.00			4452.00	
Jars	5.00			4457.00	
Safety Joint	2.00			4459.00	
Packer	5.00			4464.00	27.00 Bottom Of Top Packer
Packer	4.00			4468.00	
Stubb	1.00			4469.00	
Recorder	0.00	6771	Outside	4469.00	
Recorder	0.00	8368	Inside	4469.00	
Perforations	34.00			4503.00	
Recorder	0.00	6667	Inside	4503.00	
Bullnose	5.00			4508.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE**  
**TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co Inc  
PO Box 48788  
Wichita, Ks  
67201  
ATTN: Max Lovely

**Eder #3**  
**17-20-35 Wichita, Ks**  
Job Ticket: 039129      **DST#: 3**  
Test Start: 2010.06.15 @ 05:10:43

**Mud and Cushion Information**

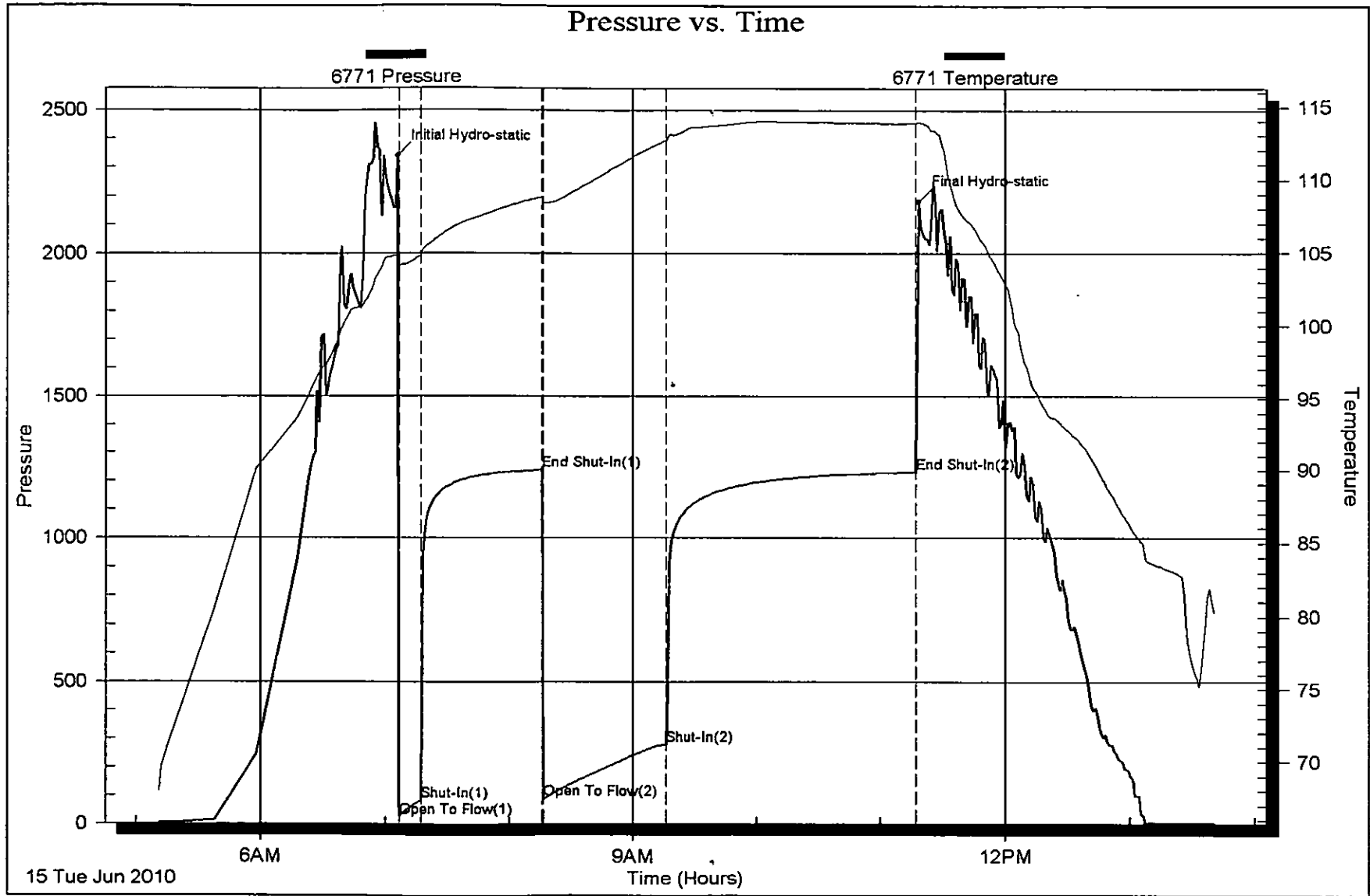
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	50000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

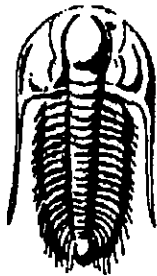
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
243.00	s m c w 10% m 90% w	1.195
180.00	w c m 40% w 60% m	0.885
125.00	w c m 25% w 75% m	0.660

Total Length: 548.00 ft      Total Volume: 2.740 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: rw .198 @ 100'f = 50,000 chlor





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co Inc**

PO Box 48788  
Wichita, Ks  
67201

ATTN: Max Lovely

**17-20-35 Wichita, Ks**

**Eder #3**

Start Date: 2010.06.16 @ 07:40:44

End Date: 2010.06.16 @ 18:00:59

Job Ticket #: 039130          DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2010.06.30 @ 10:07:02 Page 1

Raymond Oil Co Inc

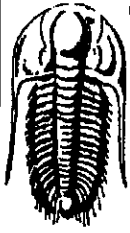
Eder #3

17-20-35 Wichita, Ks

DST # 4

Pawnee-Ft Scott

2010.06.16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil Co Inc

**Eder #3**

PO Box 48788  
Wichita, Ks  
67201

**17-20-35 Wichita, Ks**

Job Ticket: 039130 **DST#: 4**

ATTN: Max Lovely

Test Start: 2010.06.16 @ 07:40:44

## GENERAL INFORMATION:

Formation: **Pawnee-Ft Scott**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 09:59:14  
Time Test Ended: 18:00:59

Test Type: Conventional Straddle  
Tester: Shane McBride  
Unit No: 40

Interval: **4578.00 ft (KB) To 4638.00 ft (KB) (TVD)**  
Total Depth: **4638.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **3127.00 ft (KB)**  
**3116.00 ft (CF)**  
KB to GR/CF: **11.00 ft**

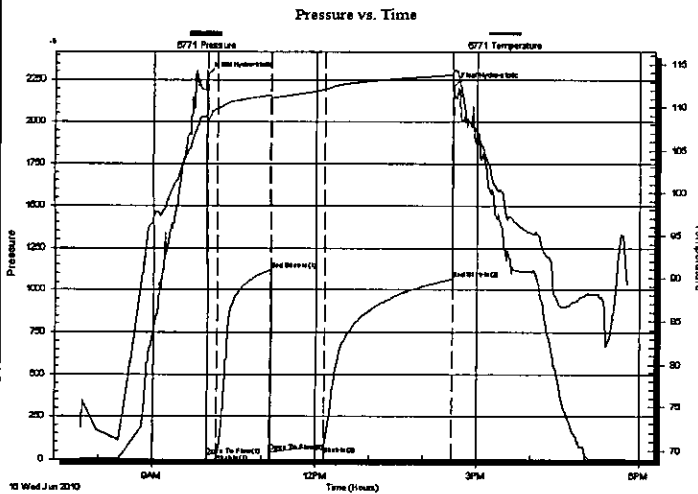
**Serial #: 6771**

**Outside**

Press@RunDepth: **78.66 psig @ 4579.00 ft (KB)**  
Start Date: **2010.06.16** End Date: **2010.06.16**  
Start Time: **07:40:44** End Time: **17:45:59**

Capacity: **8000.00 psig**  
Last Calib.: **2010.06.16**  
Time On Btrr: **2010.06.16 @ 09:58:59**  
Time Off Btrr: **2010.06.16 @ 14:33:29**

**TEST COMMENT:** 3 1/4" in blow  
No return  
B.O.B. in 28 min  
Surface return, died in 12 min.



## PRESSURE SUMMARY

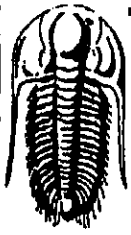
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.71	109.21	Initial Hydro-static
1	22.63	108.30	Open To Flow (1)
11	35.50	109.82	Shut-In(1)
71	1118.42	111.50	End Shut-In(1)
72	42.28	111.16	Open To Flow (2)
131	78.66	112.12	Shut-In(2)
273	1065.05	113.81	End Shut-In(2)
275	2208.75	114.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	m c o 50% m 50%	0.30
60.00	m c o 40% m 60%	0.30
20.00	m c o 30% m 70%	0.10

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil Co Inc  
PO Box 48788  
Wichita, Ks  
67201  
ATTN: Max Lovely

**Eder #3**  
**17-20-35 Wichita, Ks**  
Job Ticket: 039130      DST#: 4  
Test Start: 2010.06.16 @ 07:40:44

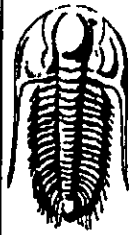
**Tool Information**

Drill Pipe:	Length: 4021.00 ft	Diameter: 3.80 inches	Volume: 56.40 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 110000.0 lb
		Total Volume: 59.07 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	4578.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	4638.00 ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4552.00	
Shut In Tool	5.00			4557.00	
Hydraulic tool	5.00			4562.00	
Jars	5.00			4567.00	
Safety Joint	2.00			4569.00	
Packer	5.00			4574.00	27.00      Bottom Of Top Packer
Packer	4.00			4578.00	
Stubb	1.00			4579.00	
Recorder	0.00	6771	Outside	4579.00	
Recorder	0.00	8368	Inside	4579.00	
Perforations	21.00			4600.00	
Change Over Sub	1.00			4601.00	
Drill Pipe	31.00			4632.00	
Change Over Sub	1.00			4633.00	
Recorder	0.00	6667	Inside	4633.00	
Bullnose	5.00			4638.00	60.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>87.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co Inc  
PO Box 48788  
Wichita, Ks  
67201  
ATTN: Max Lovely

**Eder #3**  
**17-20-35 Wichita, Ks**  
Job Ticket: 039130      DST#: 4  
Test Start: 2010.06.16 @ 07:40:44

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 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

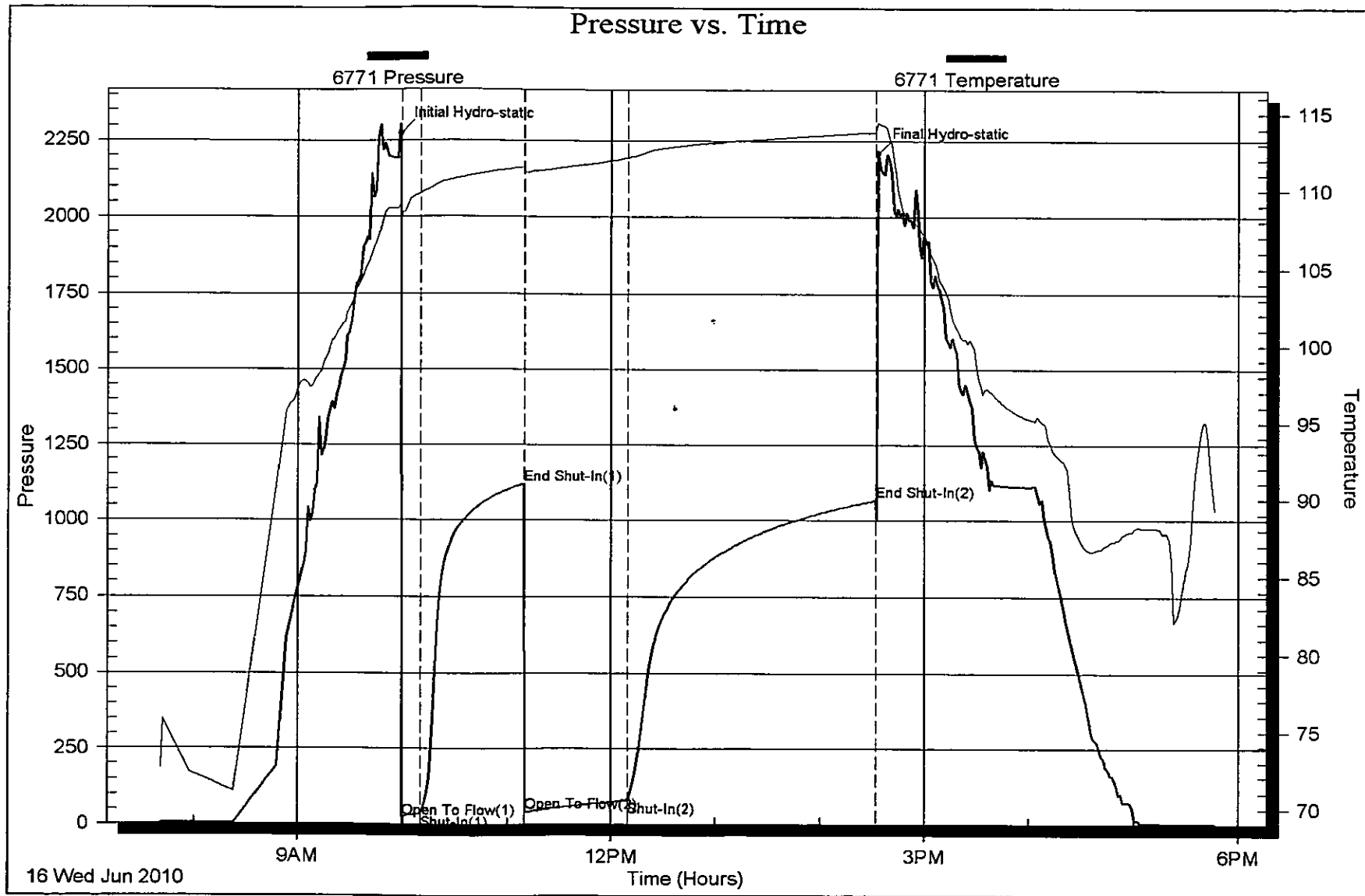
Length ft	Description	Volume bbl
60.00	m c o 50% m 50% o	0.295
60.00	m c o 40% m 60% o	0.295
20.00	m c o 30% m 70% o	0.098

Total Length: 140.00 ft      Total Volume: 0.688 bbl

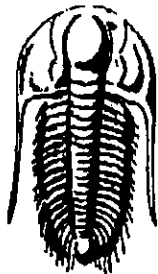
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location: .

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co Inc**

PO Box 48788  
Wichita, Ks  
67201

ATTN: Max Lovely

**17-20-35 Wichita, Ks**

**Eder #3**

Start Date: 2010.06.17 @ 05:30:52

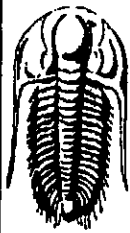
End Date: 2010.06.17 @ 13:30:37

Job Ticket #: 039131      DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil Co Inc

Eder #3

PO Box 48788  
Wichita, Ks  
67201

17-20-35 Wichita, Ks

Job Ticket: 039131

DST#: 5

ATTN: Max Lovely

Test Start: 2010.06.17 @ 05:30:52

## GENERAL INFORMATION:

Formation: **Johnson**  
Deviated: **No Whipstock:** ft (KB)  
Time Tool Opened: 07:34:52  
Time Test Ended: 13:30:37

Test Type: Conventional Straddle  
Tester: Shane McBride  
Unit No: 40

Interval: **4695.00 ft (KB) To 4732.00 ft (KB) (TVD)**  
Total Depth: 4732.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3127.00 ft (KB)  
3116.00 ft (CF)  
KB to GR/CF: 11.00 ft

## Serial #: 6771

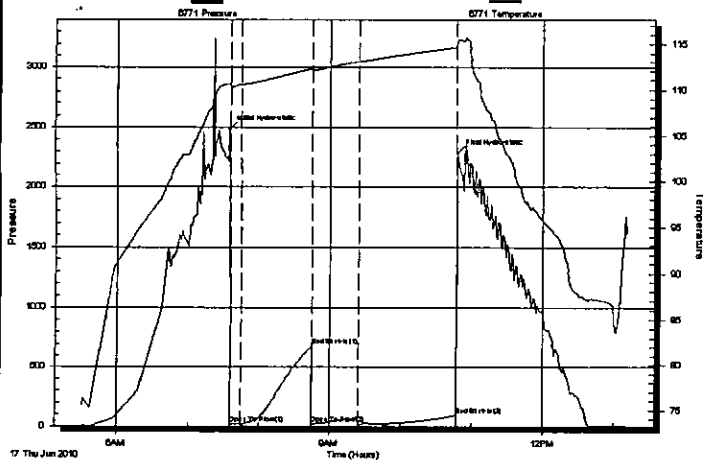
Outside

Press@RunDepth: 22.90 psig @ 4696.00 ft (KB)  
Start Date: 2010.06.17 End Date: 2010.06.17  
Start Time: 05:30:52 End Time: 13:11:37

Capacity: 8000.00 psig  
Last Calib.: 2010.06.17  
Time On Btm: 2010.06.17 @ 07:34:37  
Time Off Btm: 2010.06.17 @ 10:48:22

TEST COMMENT: Weak surface blow  
No return  
No blow  
No return

Pressure vs. Time



## PRESSURE SUMMARY

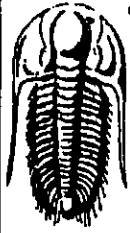
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2481.59	110.75	Initial Hydro-static
1	23.07	110.18	Open To Flow (1)
10	23.31	110.55	Shut-In(1)
70	676.79	112.29	End Shut-In(1)
70	22.99	111.97	Open To Flow (2)
110	22.90	113.06	Shut-In(2)
193	95.49	114.68	End Shut-In(2)
194	2282.45	115.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil Co Inc

**Eder #3**

PO Box 48788  
Wichita, Ks  
67201

**17-20-35 Wichita, Ks**

Job Ticket: 039131

**DST#: 5**

ATTN: Max Lovely

Test Start: 2010.06.17 @ 05:30:52

**Tool Information**

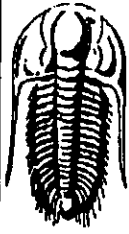
Drill Pipe:	Length: 4148.00 ft	Diameter: 3.80 inches	Volume: 58.19 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 110000.0 lb
		Total Volume: 60.86 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	4695.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	4732.00 ft			
Interval between Packers:	37.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4669.00	
Shut In Tool	5.00			4674.00	
Hydraulic tool	5.00			4679.00	
Jars	5.00			4684.00	
Safety Joint	2.00			4686.00	
Packer	5.00			4691.00	27.00 Bottom Of Top Packer
Packer	4.00			4695.00	
Stubb	1.00			4696.00	
Recorder	0.00	6771	Outside	4696.00	
Recorder	0.00	8368	Inside	4696.00	
Perforations	31.00			4727.00	
Recorder	0.00	6667	Inside	4727.00	
Bullnose	5.00			4732.00	37.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co Inc  
PO Box 48788  
Wichita, Ks  
67201  
ATTN: Max Lovely

**Eder #3**  
**17-20-35 Wichita, Ks**  
Job Ticket: 039131      DST#: 5  
Test Start: 2010.06.17 @ 05:30:52

**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: 59.00 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: 5100.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

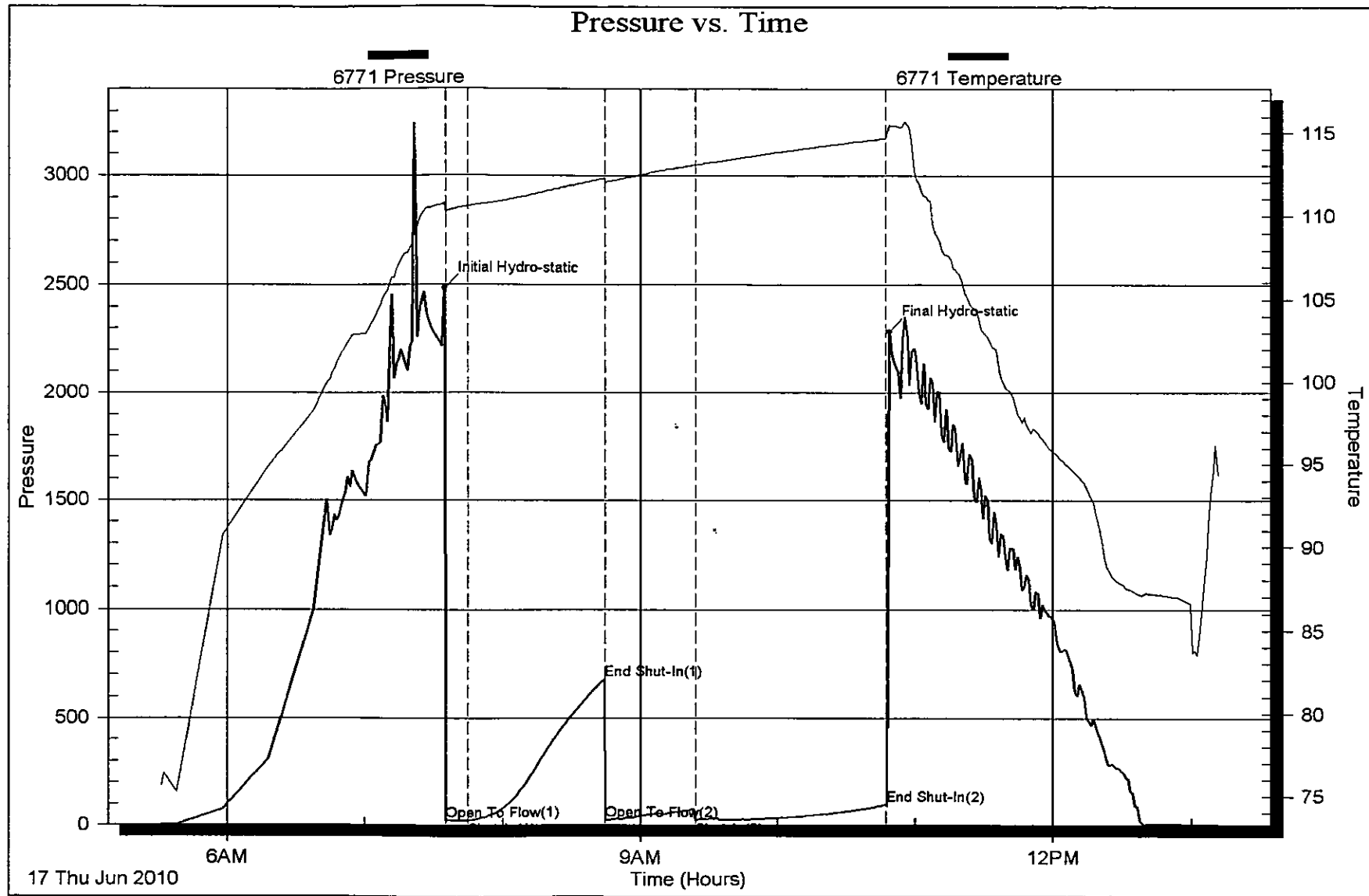
Length ft	Description	Volume bbl
2.00	mud 100% <sub>m</sub>	0.010

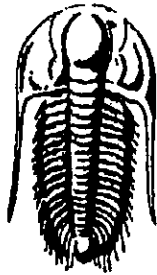
Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co Inc**

PO Box 48788  
Wichita, Ks  
67201

ATTN: Max Lovely

**17-20-35 Wichita, Ks**

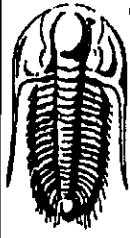
**Eder #3**

Start Date: 2010.06.17 @ 21:30:20

End Date: 2010.06.18 @ 06:35:35

Job Ticket #: 039132                      DST #: 6

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Raymond Oil Co Inc  
PO Box 48788  
Wichita, Ks  
67201  
ATTN: Max Lovely

**Eder #3**

**17-20-35 Wichita, Ks**

Job Ticket: 039132

DST#: 6

Test Start: 2010.06.17 @ 21:30:20

### GENERAL INFORMATION:

Formation: **Atoka**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 23:52:35  
Time Test Ended: 06:35:35

Test Type: **Conventional Straddle**  
Tester: **Shane McBride**  
Unit No: **40**

Interval: **4732.00 ft (KB) To 4764.00 ft (KB) (TVD)**  
Total Depth: **4764.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **3127.00 ft (KB)**  
**3116.00 ft (CF)**  
KB to GR/CF: **11.00 ft**

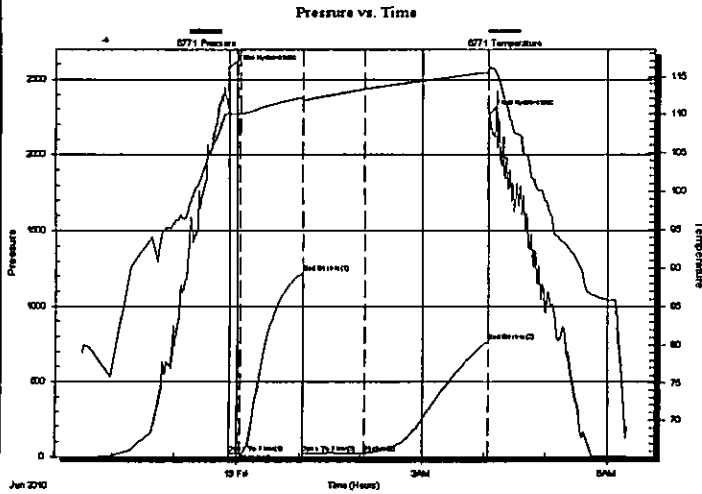
**Serial #: 6771**

**Outside**

Press@RunDepth: **25.48 psig @ 4733.00 ft (KB)**  
Start Date: **2010.06.17** End Date: **2010.06.18**  
Start Time: **21:30:20** End Time: **06:19:35**

Capacity: **8000.00 psig**  
Last Calib.: **2010.06.18**  
Time On Btm: **2010.06.17 @ 23:51:35**  
Time Off Btm: **2010.06.18 @ 04:05:20**

TEST COMMENT: **Weak 1/8" in blow**  
**No return**  
**No blow**  
**No return**



### PRESSURE SUMMARY

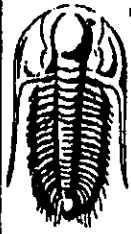
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2571.07	110.37	Initial Hydro-static
1	24.69	109.79	Open To Flow (1)
11	25.64	110.10	Shut-In(1)
71	1223.33	112.18	End Shut-In(1)
72	26.37	111.73	Open To Flow (2)
133	25.48	113.34	Shut-In(2)
253	770.37	115.52	End Shut-In(2)
254	2272.88	116.09	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100%rn	0.01

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil Co Inc

**Eder #3**

PO Box 48788  
Wichita, Ks  
67201

**17-20-35 Wichita, Ks**

Job Ticket: 039132

**DST#: 6**

ATTN: Max Lovely

Test Start: 2010.06.17 @ 21:30:20

**Tool Information**

Drill Pipe:	Length: 4182.00 ft	Diameter: 3.80 inches	Volume: 58.66 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 110000.0 lb
		Total Volume: 61.33 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4732.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	4764.00 ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

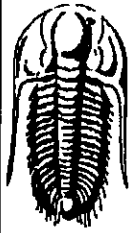
Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4706.00	
Shut In Tool	5.00			4711.00	
Hydraulic tool	5.00			4716.00	
Jars	5.00			4721.00	
Safety Joint	2.00			4723.00	
Packer	5.00			4728.00	27.00 Bottom Of Top Packer
Packer	4.00			4732.00	
Stubb	1.00			4733.00	
Recorder	0.00	6771	Outside	4733.00	
Recorder	0.00	8368	Inside	4733.00	
Perforations	26.00			4759.00	
Recorder	0.00	6667	Inside	4759.00	
Bullnose	5.00			4764.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil Co Inc  
PO Box 48788  
Wichita, Ks  
67201  
ATTN: Max Lovely

**Eder #3**  
**17-20-35 Wichita, Ks**  
Job Ticket: 039132      DST#: 6  
Test Start: 2010.06.17 @ 21:30:20

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7200.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100%m	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl  
Num Fluid Samples: 0      Num Gas Borrs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

