

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

RECEIVED ORIGINAL

JUL 30 2010

Form ACO-1  
October 2008  
Form Must Be Typed

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

KCC WICHITA

7/28/12

OPERATOR: License # 5046  
 Name: Raymond Oil Company, Inc. **JUL 28 2010**  
 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 Company  
 Wellsite Geologist: Max Lovely  
 Purchaser: NCRA  
 Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  
 Gas  ENHR  SIGW  
 CM (Coal Bed Methane)  Temp. Abd.  
 Dry  Other \_\_\_\_\_  
 (Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:  
 Operator: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr.  Conv. to SWD  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled Docket No.: \_\_\_\_\_  
 Dual Completion Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?) Docket No.: \_\_\_\_\_  
4/18/10 4/18/10 5/18/10  
 Spud Date or Date Reached TD Completion Date or Recompletion Date

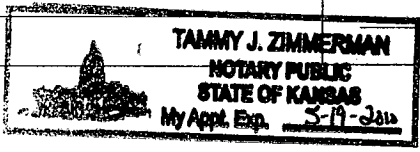
API No. 15 - 203-20152-0000  
 Spot Description: \_\_\_\_\_  
 \_\_\_\_\_ NE NE SW Sec. 17 Twp. 20 S. R. 35  East  West  
2406 Feet from  North /  South Line of Section  
2113 Feet from  East /  West Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
 County: Wichita  
 Lease Name: Eder Well #: 2  
 Field Name: Sand Creek Ext.  
 Producing Formation: \_\_\_\_\_  
 Elevation: Ground: 3154' Kelly Bushing: 3159'  
 Total Depth: 5065' Plug Back Total Depth: 4943'  
 Amount of Surface Pipe Set and Cemented at: 249' Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set: 1929' Feet  
 If Alternate II completion, cement circulated from: 1929'  
 feet depth to: surface w/ ~~176~~ 380 sx cmt.

**Drilling Fluid Management Plan** AT IINS 8440  
 (Data must be collected from the Reserve Pit)  
 Chloride content: 12500 ppm Fluid volume: 1000 bbls  
 Dewatering method used: Hauled  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: Cheyenne Oil Service Inc.  
 Lease Name: Pinka License No.: 7146  
 Quarter \_\_\_\_\_ Sec. 33 Twp. 17 S. R. 30  East  West  
 County: Lane Docket No.: 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.

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: 7/28/2010  
 Subscribed and sworn to before me this 28 day of July,  
 20 10.  
 Notary Public: Tammy J. Zimmerman  
 Date Commission Expires: 5/19/2014

**KCC Office Use ONLY**  
 Letter of Confidentiality Received 7/28/10 - 7/28/12  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution



JUL 28 2010

Operator Name: Raymond Oil Company, Inc.

Lease Name: Eder

Well #: 2

Sec. 17 Twp. 20 S. R. 35  East  West

County: Wichita

**CONFIDENTIAL**

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

<p>Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i></p> <p>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i></p> <p>List All E. Logs Run:                  N-D Log <i>Sonic</i>                  IND Log <i>Cement bond log</i>                  Micro Log</p>	<p><input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample</p> <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/A/nh</td> <td>2278</td> <td>+881</td> </tr> <tr> <td>Heeb</td> <td><b>RECEIVED</b> 3935</td> <td>-776</td> </tr> <tr> <td>B/KC</td> <td>4438</td> <td>-1279</td> </tr> <tr> <td>Cher</td> <td><b>JUL 30 2010</b> 4649</td> <td>-1490</td> </tr> <tr> <td>Miss</td> <td>4916</td> <td>-1757</td> </tr> </table> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">KCC WICHITA</p>	Name	Top	Datum	B/A/nh	2278	+881	Heeb	<b>RECEIVED</b> 3935	-776	B/KC	4438	-1279	Cher	<b>JUL 30 2010</b> 4649	-1490	Miss	4916	-1757
Name	Top	Datum																	
B/A/nh	2278	+881																	
Heeb	<b>RECEIVED</b> 3935	-776																	
B/KC	4438	-1279																	
Cher	<b>JUL 30 2010</b> 4649	-1490																	
Miss	4916	-1757																	

CASING RECORD <input checked="" 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	24#	249'	Common	170	3% cc, 2% gel
Production	7 7/8"	5 1/2	14#	4943'	60/40 poz	220	7.5% salt, 2% gel
DV, 2nd Stage	7 7/8"	5 1/2	14#	1929	Lt Comm	380	

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 <i>(Amount and Kind of Material Used)</i>	Depth
2	Marm A 4469-78	Natural	4469-78
2	Marm B 4482-88	Natural	4482-88

TUBING RECORD:	Size: <u>2"</u>	Set At: <u>4615'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Entr. <u>7-1-10</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls. <u>50</u>	Gas Mcf	Water Bbls.	Gas-Oil Ratio <u>100% Oil</u>	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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Marm</u>
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# ALLIED CEMENTING CO., LLC. 043602

KCC

JUL 28 2010

SERVICE POINT:

DARLEY

CONFIDENTIAL

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

DATE <u>4-8-10</u>	SEC <u>17</u>	TWP <u>205</u>	RANGE <u>35W</u>	CALLED OUT	ON LOCATION <u>8:00 AM</u>	JOB START <u>9:00 AM</u>	JOB FINISH <u>9:30 AM</u>
LEASER <u>ENDER</u>	WELL # <u>2</u>	LOCATION <u>MARIENTHAL 1/5 - South +</u>			COUNTY <u>WICHITA</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		LOCATION <u>EAST + South <del>through</del> FARMERS YARD</u>					

CONTRACTOR MURFIN DRILL RIG #24

OWNER SAME

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 249'

CEMENT AMOUNT ORDERED

CASING SIZE 8 5/8" DEPTH 249'

170 SKS COM 3% CC 2% GEL

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

RES. MAX MINIMUM

COMMON 170 SKS @ 15.45 2626.50

MEAS. LINE SHOE JOINT

POZMIX @

CEMENT LEFT IN CSG. 15'

GEL 3 SKS @ 20.80 62.40

PERFS.

CHLORIDE 6 SKS @ 58.30 349.80

DISPLACEMENT 15 BBLs

ASC @

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

# 422 HELPER DARRIN

BULK TRUCK

# 377 DRIVER JERRY

BULK TRUCK

# DRIVER

HANDLING 179 SKS @ 2.40 429.60

MILEAGE 104 PER SK / MILE 1253

TOTAL 4720.70

REMARKS:

CEMENT IN CELLAR.

THANK YOU

CHARGE TO: RAYMOND OIL

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 249'

PUMP TRUCK CHARGE 1018.00

EXTRA FOOTAGE @

MILEAGE 70 MI @ 7.00 490.00

MANIFOLD @

TOTAL 1508.00

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

RECEIVED  
JUL 30 2010  
KCC WICHITA

# ALLIED CEMENTING CO., LLC. 039173

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

KCC

SERVICE POINT: Oakley, Ky

JUL 28 2010

DATE <u>4/18/10</u>	SEC. <u>17</u>	TWP. <u>20</u>	RANGE <u>35</u>	CALLED OUT <u>CONFIDENTIAL</u>	ON LOCATION <u>4:00pm</u>	JOB START <u>8:30pm</u>	JOB FINISH <u>9:00pm</u>
LEASE <u>Elder</u>	WELL # <u>#2</u>	LOCATION <u>Marienthal 115 E65</u>			COUNTY <u>Wichita</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)				<u>INTD</u>			

CONTRACTOR Murkin 24

TYPE OF JOB Production Bottom Stage

HOLE SIZE 7 1/2 T.D.

CASING SIZE 5 1/2 1416 DEPTH 5060'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DV DEPTH 1929.3 - KB

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 40, 13

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Same

CEMENT

AMOUNT ORDERED 220 SKs 60/40

7 1/2 90 salt 290 gel

500 Gal WFR II

COMMON	<u>130</u>	@	<u>15.45</u>	<u>2008.50</u>
POZMIX	<u>90</u>	@	<u>8.00</u>	<u>720.00</u>
GEL	<u>4</u>	@	<u>20.00</u>	<u>83.00</u>
CHLORIDE		@		
ASC		@		
<u>Salt</u>	<u>15 SKs</u>	@	<u>23.95</u>	<u>359.25</u>
<u>500 gal WFR II</u>		@	<u>1.22</u>	<u>635.00</u>
HANDLING	<u>239 SKs</u>	@	<u>2.40</u>	<u>573.60</u>
MILEAGE	<u>108 SK/mile</u>			<u>1673.00</u>
				TOTAL <u>6052.55</u>

EQUIPMENT

PUMP TRUCK CEMENTER Alan

# 402 HELPER Wayne

BULK TRUCK DRIVER Derry

# 396

BULK TRUCK DRIVER Darren

# 377

REMARKS:

Mix 500 Gal WFR II, Mix 220 SK, 60/40  
7 1/2 90 salt 290 gel, Wash Trunk Lines  
Displace Plug to Catch Down w/ 700 PSI  
Let Plug @ 1600 PSI. Float  
Held. Drop Opening Tool, Open Tool  
@ 1200 PSI

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 2185.00

EXTRA FOOTAGE @

MILEAGE 70 @ 7.00 490.00

MANIFOLD @

TOTAL 2675.00

CHARGE TO: Raymond Oil Co Int

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

DV Tool @ 2832.00

AF4 Float Shoe @ 214.00

Control Lines - 7 @ 35.00 245.00

Basket @ 161.00

Latch Down Assembly @

TOTAL 3452.00

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

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

RECEIVED  
JUL 30 2010  
KCC WICHITA

# ALLIED CEMENTING CO., LLC. 039174

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

KCC  
JUL 28 2010

SERVICE POINT:

*Oakley, Ks*

DATE <i>4/18/10</i>	SEC. <i>17</i>	TWP. <i>20</i>	RANGE <i>35</i>	CONFIDENTIAL	ON LOCATION <i>4:00 pm</i>	JOB START <i>9:00 am</i>	JOB FINISH <i>10:00 am</i>
LEASE <i>Elder</i>	WELL # <i>#2</i>	LOCATION <i>Marienthal 115 B65</i>			COUNTY <i>Wichita</i>	STATE <i>Ks</i>	
OLD OR NEW <i>(Circle one)</i>		<i>into</i>					

CONTRACTOR *Murfin 24*

TYPE OF JOB *Production Top Stage*

HOLE SIZE *7 7/8* T.D.

CASING SIZE *5 1/2* (H16) DEPTH *1929.3*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *DV* DEPTH *1929.3 -KB*

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER *Same*

CEMENT

AMOUNT ORDERED *425 SK, ALW 14 lb Flo Seal*

EQUIPMENT

PUMP TRUCK CEMENTER *Alan*

# *422* HELPER *Wayne*

BULK TRUCK

# *396* DRIVER *Jerry*

BULK TRUCK

# *377* DRIVER *Darren*

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
<i>ALW 425 SKs</i>	@	<i>14 lb</i>	<i>5921.25</i>
<i>Flo Seal 106 lb</i>	@	<i>2.00</i>	<i>265.00</i>
HANDLING <i>429 SKs</i>	@	<i>2.40</i>	<i>1029.60</i>
MILEAGE <i>10.52/mile</i>			<i>3003.00</i>
TOTAL			<i>10267.85</i>

REMARKS:

*Run 30 SK, Put Hole 20 SK, Mouse Hole 16 in 380 SK, ALW 14 lb Flo Seal Down 5 lb, Displace Plug to 7001 at 700 PSI. Lost and Plug @ 1600 PSI. 7001 closed.*

*Cement did circulate.*

*Thank you Alan, Wayne, Jerry, Darren*

CHARGE TO: *Raymond Oil Co Inc*

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_ *n/c*

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE *20.52* @ *7.00* *n/c*

MANIFOLD @ \_\_\_\_\_

TOTAL *n/c*

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 \_\_\_\_\_

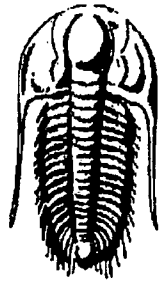
SIGNATURE *[Signature]*

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

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

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

RECEIVED  
JUL 30 2010  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co., Inc.**

PO Box 48788  
Wichita KS 67201-8788

ATTN: Max Lovely

**17-20s35w Wichita KS**

**Eder #2**

Start Date: 2010.04.14 @ 02:54:05

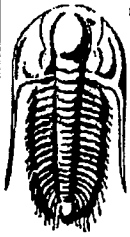
End Date: 2010.04.14 @ 13:45:45

Job Ticket #: 37825                      DST #: 1

**KCC**  
**JUL 28 2010**  
**CONFIDENTIAL**

RECEIVED  
JUL 30 2010  
KCC WICHITA

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 67201-8788  
ATTN: Max Lovely

**Eder #2**  
**17-20s35w Wichita KS**  
Job Ticket: 37825      **DST#: 1**  
Test Start: 2010.04.14 @ 02:54:05

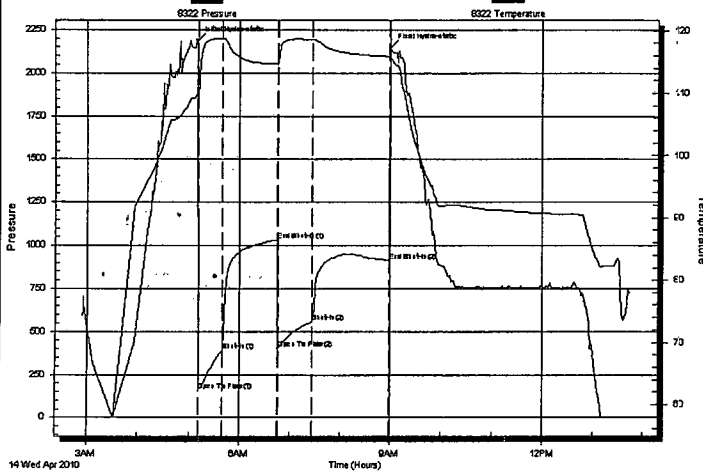
## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: **No Whipstock:**      **ft (KB)**  
Time Tool Opened: 05:10:15  
Time Test Ended: 13:45:45  
Interval: **4464.00 ft (KB) To 4488.00 ft (KB) (TVD)**  
Total Depth: **4488.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Brandon Domsch**  
Unit No: **48**  
Reference Elevations: **3159.00 ft (KB)**  
**3154.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 8322**      **Inside**  
Press@RunDepth: **556.25 psig @ 4465.00 ft (KB)**  
Start Date: **2010.04.14**      End Date: **2010.04.14**  
Start Time: **02:54:05**      End Time: **13:45:45**  
Capacity: **8000.00 psig**  
Last Calib.: **2010.04.14**  
Time On Btm: **2010.04.14 @ 05:09:30**  
Time Off Btm: **2010.04.14 @ 09:00:00**

**TEST COMMENT:** IF: BOB in 1 1/2 mins.  
IS: BOB in 9 mins.  
FF: BOB in 4 mins.  
FS: BOB in 17 mins.

Pressure vs. Time



## PRESSURE SUMMARY

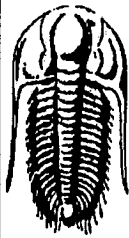
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2187.39	109.83	Initial Hydro-static
1	154.05	109.00	Open To Flow (1)
31	392.84	118.65	Shut-In(1)
96	1027.30	114.66	End Shut-In(1)
97	403.44	114.55	Open To Flow (2)
138	556.25	118.53	Shut-In(2)
230	908.50	115.90	End Shut-In(2)
231	2149.37	115.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCG&O 10%g 70%o 20%m	0.61
1178.00	CG&O 20%g 80%o	16.52
310.00	CG&O 70%G 30%o	4.35
0.00	GIP = 2170 FT	0.00
0.00	API = 31@ 70F = 30	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.  
PO Box 48788  
Wichata KS 67201-8788  
  
ATTN: Max Lovely

**Eder #2**  
**17-20s35w Wichita KS**  
Job Ticket: 37825      DST#: 1  
Test Start: 2010.04.14 @ 02:54:05

**Tool Information**

Drill Pipe:	Length: 4332.00 ft	Diameter: 3.80 inches	Volume: 60.77 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4464.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

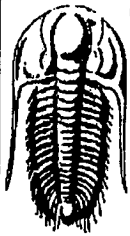
Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4437.00	
Shut In Tool	5.00			4442.00	
Hydraulic tool	5.00			4447.00	
Jars	5.00			4452.00	
Safety Joint	3.00			4455.00	
Packer	5.00			4460.00	28.00      Bottom Of Top Packer
Packer	4.00			4464.00	
Stubb	1.00			4465.00	
Recorder	0.00	8322	Inside	4465.00	
Recorder	0.00	8166	Inside	4465.00	
Perforations	18.00			4483.00	
Bullnose	5.00			4488.00	24.00      Bottom Packers & Anchor

**Total Tool Length: 52.00**





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co., Inc.  
PO Box 48788  
Wichata KS 67201-8788  
ATTN: Max Lovely

**Eder #2**  
**17-20s35w Wichita KS**  
Job Ticket: 37825      DST#: 1  
Test Start: 2010.04.14 @ 02:54:05

**Mud and Cushion Information**

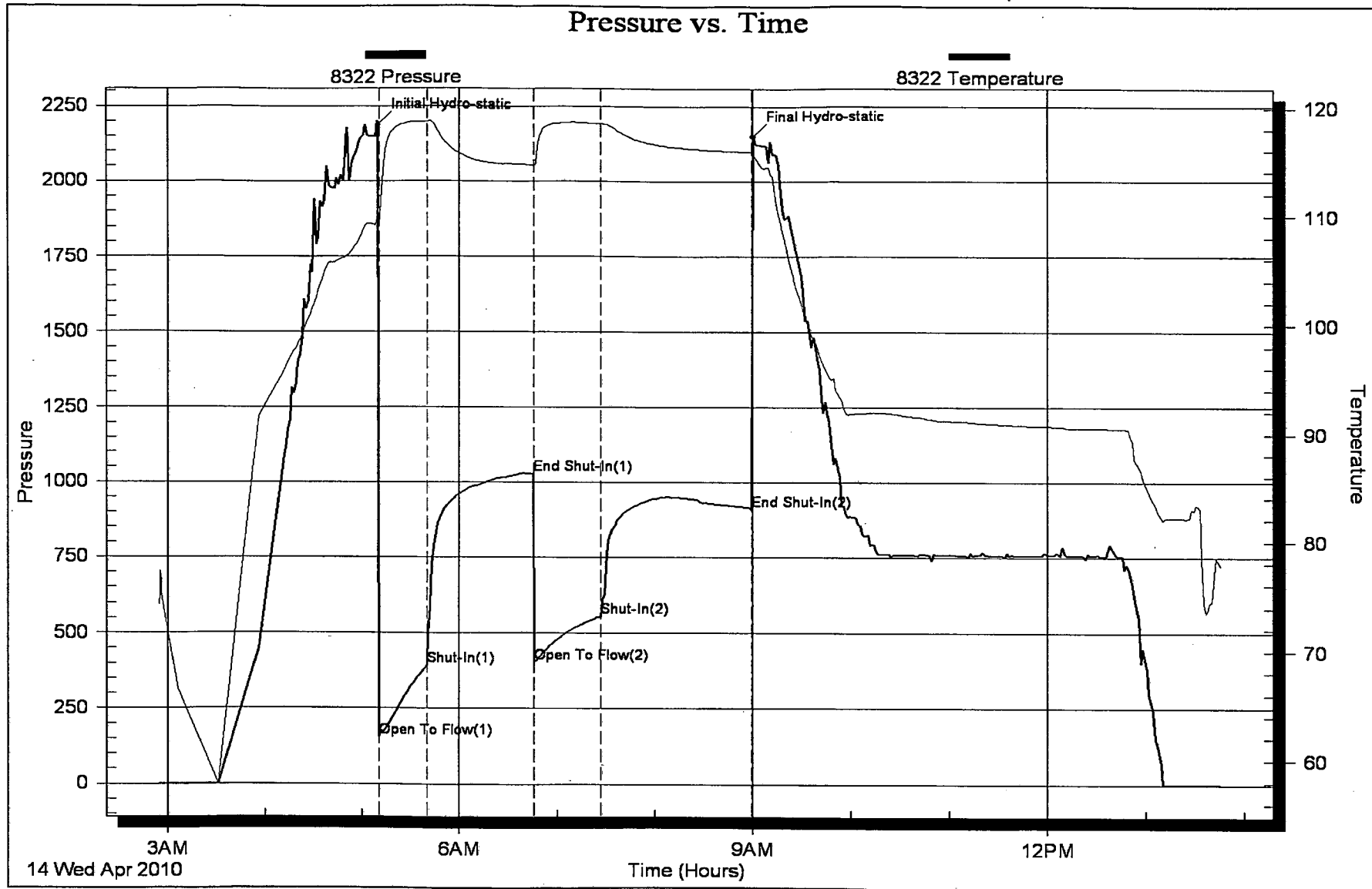
Mud Type: Gel Chem	Cushion Type:	Oil API:	30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.53 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

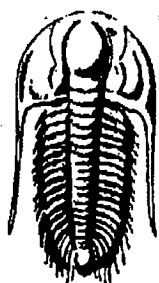
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
124.00	MCG&O 10%g 70%o 20%m	0.610
1178.00	CG&O 20%g 80%o	16.524
310.00	CG&O 70%G 30%o	4.348
0.00	GIP = 2170 FT	0.000
0.00	API = 31 @ 70F = 30	0.000

Total Length: 1612.00 ft      Total Volume: 21.482 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 67201-8788

ATTN: Max Lovely

**17-20s35w Wichita KS**

**Eder #2**

Start Date: 2010.04.15 @ 10:45:37

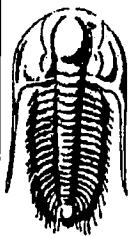
End Date: 2010.04.15 @ 18:15:07

Job Ticket #: 37836                      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.  
PO Box 48788  
Wichata KS 67201-8788  
ATTN: Max Lovely

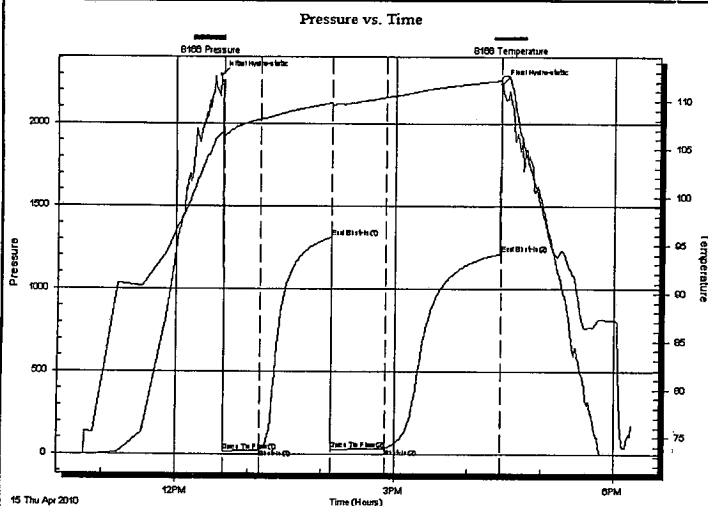
**Eder #2**  
**17-20s35w Wichita KS**  
Job Ticket: 37836      DST#: 2  
Test Start: 2010.04.15 @ 10:45:37

## GENERAL INFORMATION:

Formation: **Myric Station- Ft. S**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:38:52  
 Time Test Ended: 18:15:07  
 Interval: **4580.00 ft (KB) To 4630.00 ft (KB) (TVD)**  
 Total Depth: 4630.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Brandon Turley  
 Unit No: 35  
 Reference Elevations: 3159.00 ft (KB)  
 3154.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8166**      **Inside**  
 Press@RunDepth: 38.79 psig @ 4581.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.04.15      End Date: 2010.04.15      Last Calib.: 2010.04.15  
 Start Time: 10:45:37      End Time: 18:15:07      Time On Btm: 2010.04.15 @ 12:36:37  
 Time Off Btm: 2010.04.15 @ 16:27:22

**TEST COMMENT:** IF: 1/4 blow died to a surface blow.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



## PRESSURE SUMMARY

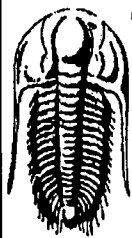
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2293.40	106.69	Initial Hydro-static
3	19.05	106.36	Open To Flow (1)
33	27.77	108.12	Shut-In(1)
92	1312.46	109.84	End Shut-In(1)
92	30.88	109.28	Open To Flow (2)
136	38.79	110.41	Shut-In(2)
230	1213.39	112.16	End Shut-In(2)
231	2243.13	112.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100% m	0.15

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Co., Inc.

Eder #2

PO Box 48788  
Wichata KS 67201-8788

17-20s35w Wichita KS

Job Ticket: 37836

DST#: 2

ATTN: Max Lovely

Test Start: 2010.04.15 @ 10:45:37

### Tool Information

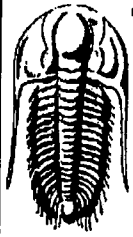
Drill Pipe:	Length: 4458.00 ft	Diameter: 3.80 inches	Volume: 62.53 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 63.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4580.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 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			4553.00	
Shut In Tool	5.00			4558.00	
Hydraulic tool	5.00			4563.00	
Jars	5.00			4568.00	
Safety Joint	3.00			4571.00	
Packer	5.00			4576.00	28.00 Bottom Of Top Packer
Packer	4.00			4580.00	
Stubb	1.00			4581.00	
Recorder	0.00	8322	Inside	4581.00	
Recorder	0.00	8166	Inside	4581.00	
Perforations	4.00			4585.00	
Change Over Sub	1.00			4586.00	
Drill Pipe	31.00			4617.00	
Change Over Sub	1.00			4618.00	
Bullnose	5.00			4623.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co., Inc.  
PO Box 48788  
Wichata KS 67201-8788  
ATTN: Max Lovely

**Eder #2**  
**17-20s35w Wichita KS**  
Job Ticket: 37836      **DST#: 2**  
Test Start: 2010.04.15 @ 10:45:37

**Mud and Cushion Information**

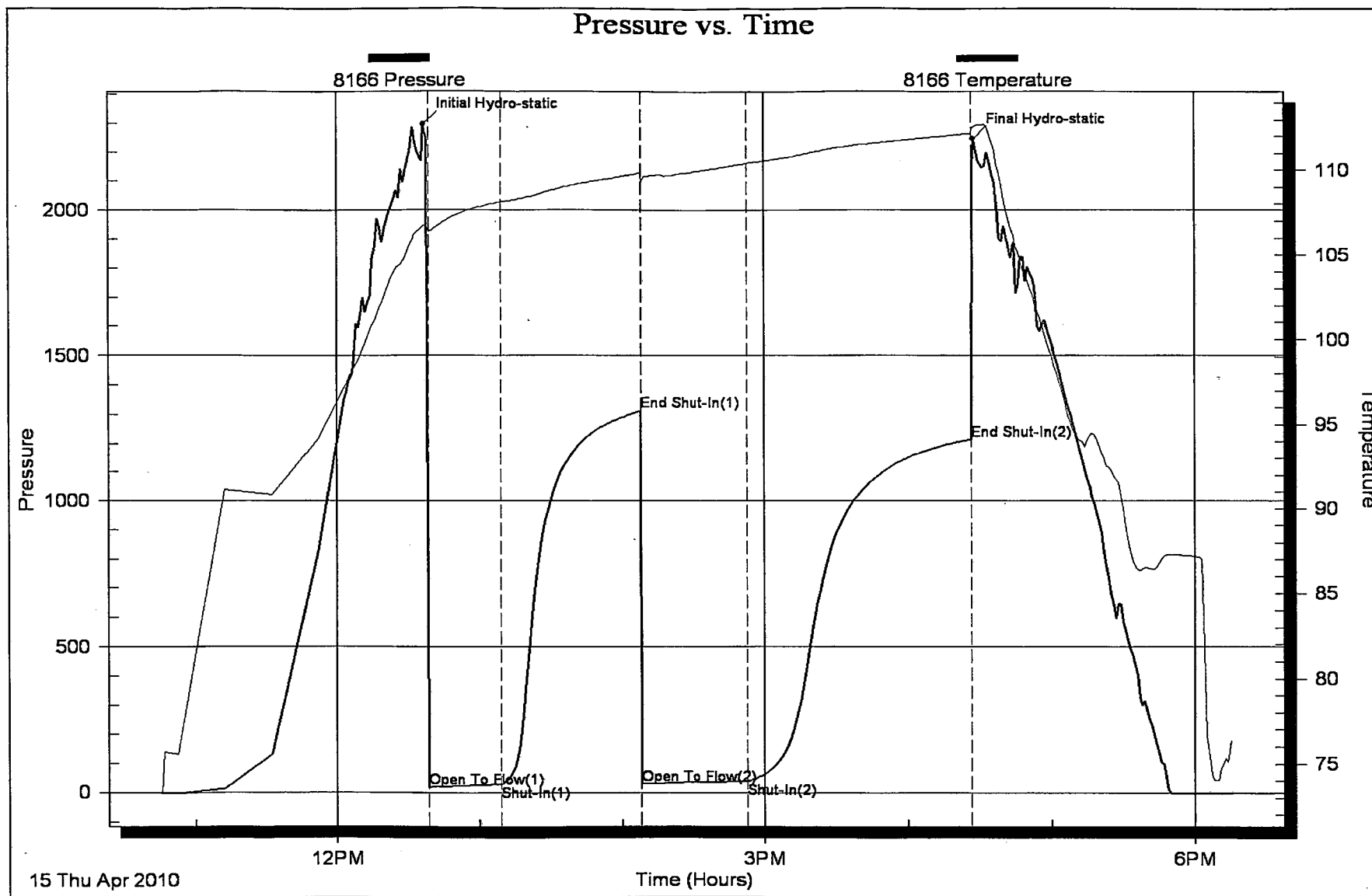
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: 1.00 inches			

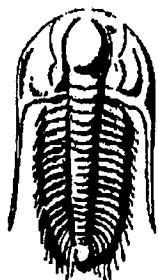
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100%m	0.148

Total Length: 30.00 ft      Total Volume: 0.148 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 67201-8788

ATTN: Max Lovely

**17-20s35w Wichita KS**

**Eder #2**

Start Date: 2010.04.16 @ 15:15:05

End Date: 2010.04.16 @ 23:18:18

Job Ticket #: 38859                      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.  
PO Box 48788  
Wichata KS 67201-8788  
ATTN: Max Lovely

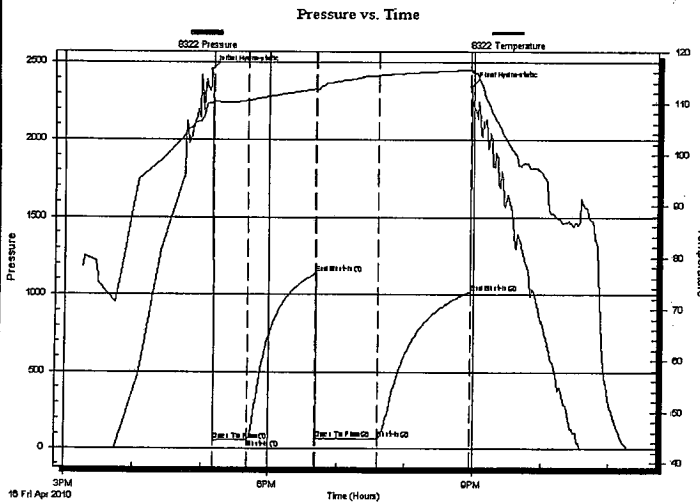
**Eder #2**  
**17-20s35w Wichita KS**  
Job Ticket: 38859      **DST#: 3**  
Test Start: 2010.04.16 @ 15:15:05

## GENERAL INFORMATION:

Formation: **Atoka**  
Deviated: **No Whipstock:**      **ft (KB)**  
Time Tool Opened: 17:10:48  
Time Test Ended: 23:18:18  
Interval: **4708.00 ft (KB) To 4790.00 ft (KB) (TVD)**  
Total Depth: **4790.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Mike Roberts**  
Unit No: **48**  
Reference Elevations: **3159.00 ft (KB)**  
**3154.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 8322**      **Inside**  
Press@RunDepth: **67.56 psig @ 4709.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.04.16**      End Date: **2010.04.16**      Last Calib.: **2010.04.16**  
Start Time: **15:15:05**      End Time: **23:18:18**      Time On Btm: **2010.04.16 @ 17:08:33**  
Time Off Btm: **2010.04.16 @ 20:58:02**

TEST COMMENT: IF:Surface blow  
IS:No return blow  
FF:No blow  
FS:No return blow



## PRESSURE SUMMARY

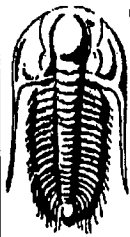
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2452.72	109.92	Initial Hydro-static
3	53.70	109.85	Open To Flow (1)
33	62.14	110.48	Shut-In(1)
93	1135.24	112.78	End Shut-In(1)
93	63.29	112.50	Open To Flow (2)
148	67.56	115.37	Shut-In(2)
229	1017.05	116.49	End Shut-In(2)
230	2348.70	116.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100%	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil Co., Inc.

**Eder #2**

PO Box 48788  
Wichata KS 67201-8788

**17-20s35w Wichita KS**

Job Ticket: 38859

**DST#: 3**

ATTN: Max Lovely

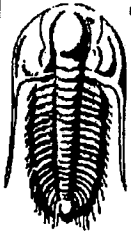
Test Start: 2010.04.16 @ 15:15:05

**Tool Information**

Drill Pipe:	Length: 4579.00 ft	Diameter: 3.80 inches	Volume: 64.23 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4708.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	110.00 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			4681.00	
Shut In Tool	5.00			4686.00	
Hydraulic tool	5.00			4691.00	
Jars	5.00			4696.00	
Safety Joint	3.00			4699.00	
Packer	5.00			4704.00	28.00 Bottom Of Top Packer
Packer	4.00			4708.00	
Stubb	1.00			4709.00	
Recorder	0.00	8322	Inside	4709.00	
Recorder	0.00	8166	Inside	4709.00	
Perforations	4.00			4713.00	
Change Over Sub	1.00			4714.00	
Drill Pipe	62.00			4776.00	
Change Over Sub	1.00			4777.00	
Perforations	8.00			4785.00	
Bullnose	5.00			4790.00	82.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>110.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co., Inc.

**Eder #2**

PO Box 48788  
Wichata KS 67201-8788

**17-20s35w Wichita KS**

Job Ticket: 38859

**DST#: 3**

ATTN: Max Lovely

Test Start: 2010.04.16 @ 15:15:05

**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: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
5.00	m 100%	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

