

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

6/16/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5046 **KCC**
Name: RAYMOND OIL COMPANY, INC.
Address 1: P.O. BOX 48788
Address 2: _____
City: WICHITA State: KS Zip: 67202
Contact Person: CLARKE SANDBERG
Phone: (316) 267-4214
CONTRACTOR: License # 6039 **RECEIVED**
Name: L D DRILLING
Wellsite Geologist: KIM SHOEMAKER **JUN 18 2010**
Purchaser: NCPA **KCC WICHITA**
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW
 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.: _____
3/20/2010 4/16/2010 4-16-10
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 101-22217-0000
Spot Description: _____
 NW SW SE NE Sec. 5 Twp. 17 S. R. 29 East West
2310 Feet from North / South Line of Section
330 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: LANE
Lease Name: MUNSELL Well #: 2
Field Name: SHAY SOUTHEAST
Producing Formation: _____
Elevation: Ground: 2824' Kelly Bushing: 2829'
Total Depth: 4675' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 248 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1828 Feet
If Alternate II completion, cement circulated from: 1828
feet depth to: SURFACE w/ 275 sx cmt.

Drilling Fluid Management Plan **AK ILM 6-24-10**
(Data must be collected from the Reserve Pit)
Chloride content: _____ ppm Fluid volume: _____ bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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-1 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: [Signature]
Title: Geologist Date: 6/16/2010
Subscribed and sworn to before me this 16 day of June
20 10
Notary Public: Tammy J Zimmerman
Date Commission Expires: 5/19/2014

KCC Office Use ONLY
 Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: Raymond Oil Company Inc. Lease Name: Munsell Well #: 2
 Sec. 5 Twp. 17 S. R. 29 East West County: Lane

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets) 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 (Submit Copy) List All E. Logs Run: Radiation Guard Micro	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Anhydrite 2225 +604 Heebner Sh 3909 -1080 BKC 4282 -1453 Miss 4558 -1729 TOTAL DEPTH 4675
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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-NEW	12 1/4"	8 5/8"	23#	248	CLASS A	170	3%CC, 2% GEL
PRODUCTION-USED BOTTOM	7 7/8"	4 1/2"	10.5#	4672.85'	60/40 Pozmix	275	7.5% SALT, 2% GEL
PRODUCTION TOP STAGE					LIGHT COMMON	475	

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
2 shts/ft	4519-22	250 gals	
2 shts/ft	4510-13	250 gals	
2 shts/ft	4428-38	250 gals	
2 shts/ft	4383-88	500 gals	
2 shts/ft	4371-77	500 gals	

TUBING RECORD: Size: 2 1/2" Set At: 4617' Packer At: _____ Liner Run: Yes No *See additional Perfs Attached ->*

Date of First, Resumed Production, SWD or Enhr. June 3, 2010 Producing Method: Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil <u>170</u> Bbls.	Gas <u>0</u> Mcf	Water <u>0</u> Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	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: _____ _____
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KCC
JUN 16 2010
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ADDITIONAL PERFORATION RECORD-

2 Shts/ft	4340-43	250 gals
2 Shts/ft	4331-34	250 gals
2 Shts/ft	4312-14	250 gals
2 Shts/ft	4293-98	500 gals
2 Shts/ft	4266-69	500 gals

RECEIVED
JUN 18 2010
KCC WICHITA

ALLIED CEMENTING CO., LLC. 33915

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

KCC

SERVICE POINT:

Russell KS

DATE <u>4-16-10</u>	SEC. <u>5</u>	TWP. <u>17</u>	RANGE <u>29</u>	ON LOCATION <u>Top</u>	JOB START <u>9:00 pm</u>	JOB FINISH <u>9:45 pm</u>
LEASE <u>Munsch</u>	WELL # <u>2</u>	LOCATION <u>Healy KS 4 East South side</u>		COUNTY <u>Lane</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)						

JUN 16 2010
CALLED OUT
CONFIDENTIAL

Bottom 7:50 pm - 8:00 pm

CONTRACTOR LD Drilling Rig #1
 TYPE OF JOB DV Production String
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE 4 1/2 10.5" DEPTH 4667.85'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL DV Tool DEPTH 1828.44'
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 31.09'
 CEMENT LEFT IN CSG. 31.09'
 PERFS. _____
 DISPLACEMENT Bottom 73.72 Bbl Top 29.07 Bbl

OWNER _____
 CEMENT
 AMOUNT ORDERED 275 4940 7 1/2% Salt 2 1/2 Gal
520 Lite 1/4" Flo
500 gal WFR-2

COMMON	<u>165</u>	@	<u>13.50</u>	<u>2227.50</u>
POZMIX	<u>110</u>	@	<u>7.55</u>	<u>830.50</u>
GEL	<u>5</u>	@	<u>20.25</u>	<u>101.25</u>
CHLORIDE		@		
ASC		@		
<u>Lite</u>	<u>520</u>	@	<u>11.55</u>	<u>612.00</u>
<u>Flo Seal</u>	<u>130</u>	@	<u>2.45</u>	<u>318.50</u>
<u>WFR-2</u>	<u>500</u>	@	<u>1.10</u>	<u>550.00</u>
<u>Salt</u>	<u>8</u>	@	<u>21.25</u>	<u>170.00</u>
HANDLING	<u>79.5</u>	@	<u>2.25</u>	<u>1788.75</u>
MILEAGE	<u>10/sk/mile</u>			<u>3180.00</u>
TOTAL				<u>15,328.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER John Roberts
 # 417 HELPER Shane
 BULK TRUCK
 # 181 DRIVER Ron
 BULK TRUCK
 # 344/170 DRIVER Bob GB
 # 260 Driver Wyne GB

REMARKS:

Ran 4 1/2 10.5" casing set @ 4672.88
Est Circulation and Circulate 2 hr on bottom
Pump 500 gal WFR-2 Mix 275sk cement.
Displace plug w/ 73.72 Bbl H2O. Open DV tool
Plug Rat hole w/ 32sk Mix 490sk and displace
w/ 29.07 Bbl to close DV tool.
-Bottom Stage Land Plug @ 1400psi Float Held!
-Top Stage Cement Did Circulate!
 Thank You!

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1957.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>40</u>	@	<u>7.00</u> <u>280.00</u>
MANIFOLD		@	
		@	
		@	

RECEIVED

TOTAL 2237.00

PLUG & FLOAT EQUIPMENT

<u>Larson DV Tool</u>	@	<u>2832.00</u>
<u>6" Centrizers</u>	@	<u>35.00</u> <u>210.00</u>
<u>1-Cement Basket</u>	@	<u>141.00</u>
<u>AFU Float Shoe</u>	@	<u>214.00</u>
<u>Latch-Down-Plug</u>	@	<u>N/C</u>
TOTAL		<u>3417.00</u>

CHARGE TO: Raymond Oil Company
 STREET _____
 CITY _____ STATE _____ ZIP _____

John Roberts
Drf. M. J. P.

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 _____

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 036390

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

SERVICE POINT:
Great Bend US

(3-21-16)

KCC
JUN 16 2010
CONFIDENTIAL

DATE 3-20-10	SEC. 5	TWP. 17	RANGE 29	CALLED OUT	ON LOCATION	JOB START 1007 AM	JOB FINISH 130 AM
LEASE Munsell	WELL # 2	LOCATION Healy US 2 East			COUNTY hanc	STATE KS	
OLD OR NEW (Circle one) <u>NEW</u>				South 1-7A			

CONTRACTOR h-d

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 251

CASING SIZE 8 3/4 DEPTH 248

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG:

PERFS.

DISPLACEMENT 14.84 BBLs

OWNER Raymond Oil Co. Inc

CEMENT

AMOUNT ORDERED 170 SX CLASS A

3% gel 2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Wayne-D

417 HELPER Matt-D

BULK TRUCK

410 DRIVER Ron-P

BULK TRUCK

DRIVER

RECEIVED

JUN 18 2010

KCC WICHITA

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Pipe on Bottom Break Circulation
with Rig mud
Hook up TA Cement line
Mix 170 SX Class A 3% gel 2% gel
Shut Down Release Plus
Displace 14.84 BBLs fresh water
Cement did circulate

SERVICE

DEPTH OF JOB 248

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

CHARGE TO: Raymond Oil Co. Inc

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1 8 5 @

plus @

@

@

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.

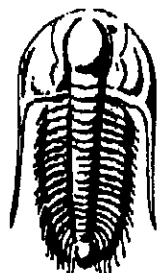
PRINTED NAME Bill Owen

SIGNATURE Bill Owen

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, KS 67202

ATTN: Kim Shoemaker

5-17-29 Lane, KS

Munsell #2

Start Date: 2010.04.09 @ 20:30:58

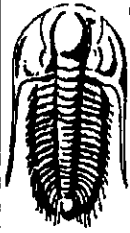
End Date: 2010.04.10 @ 07:00:58

Job Ticket #: 37787 DST #: 5

**KCC
JUN 16 2010
CONFIDENTIAL**

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

**RECEIVED
JUN 18 2010
KCC WICHITA**



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37787

DST#: 5

ATTN: Kim Shoemaker

Test Start: 2010.04.09 @ 20:30:58

GENERAL INFORMATION:

Formation: **L. Pleasanton, Marm**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 23:05:58

Time Test Ended: 07:00:58

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **4260.00 ft (KB) To 4330.00 ft (KB) (TVD)**

Total Depth: 4330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2829.00 ft (KB)

2824.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8368

Inside

Press@RunDepth: 708.80 psig @ 4261.00 ft (KB)

Start Date: 2010.04.09

End Date:

2010.04.10

Start Time: 20:30:58

End Time:

06:46:58

Capacity: 8000.00 psig

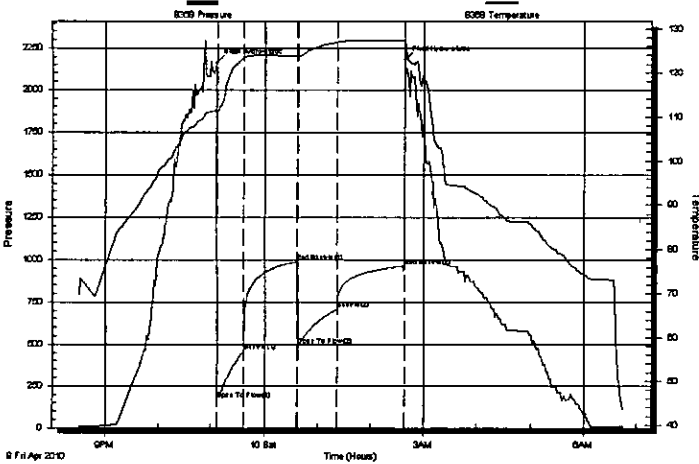
Last Calib.: 2010.04.10

Time On Btm: 2010.04.09 @ 23:05:13

Time Off Btm: 2010.04.10 @ 02:38:13

TEST COMMENT: B.O.B. in 1 min.
Return to B.O.B. in 7 min
B.O.B. @ open
Bled off throughout

Pressure vs. Time



PRESSURE SUMMARY

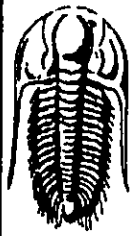
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2161.41	111.69	Initial Hydro-static
1	171.73	111.20	Open To Flow (1)
31	458.65	123.44	Shut-In (1)
92	987.55	123.97	End Shut-In (1)
92	495.71	123.83	Open To Flow (2)
137	708.80	127.00	Shut-In (2)
213	962.31	127.28	End Shut-In (2)
213	2181.86	127.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1659.00	c g o 25%g 75%o	23.27
186.00	g o c m 30%g 20%o 50% m	2.61
0.00	1441' gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37787

DST#: 5

ATTN: Kim Shoemaker

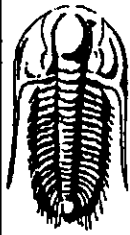
Test Start: 2010.04.09 @ 20:30:58

Tool Information

Drill Pipe:	Length: 4256.00 ft	Diameter: 3.80 inches	Volume: 59.70 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4260.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	97.00 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			4234.00	
Shut In Tool	5.00			4239.00	
Hydraulic tool	5.00			4244.00	
Jars	5.00			4249.00	
Safety Joint	2.00			4251.00	
Packer	5.00			4256.00	27.00 Bottom Of Top Packer
Packer	4.00			4260.00	
Stubb	1.00			4261.00	
Recorder	0.00	6771	Outside	4261.00	
Recorder	0.00	8368	Inside	4261.00	
Perforations	30.00			4291.00	
Change Over Sub	1.00			4292.00	
Drill Pipe	32.00			4324.00	
Change Over Sub	1.00			4325.00	
Bullnose	5.00			4330.00	70.00 Bottom Packers & Anchor
Total Tool Length:	97.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37787

DST#: 5

ATTN: Kim Shoemaker

Test Start: 2010.04.09 @ 20:30:58

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 7.17 in³
Resistivity: 0.00 ohm.m
Salinity: 1200.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 32 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1659.00	c g o 25%g 75%o	23.271
186.00	g o c m 30%g 20%o 50%m	2.609
0.00	1441' gas in pipe	0.000

Total Length: 1845.00 ft Total Volume: 25.880 bbl

Num Fluid Samples: 0

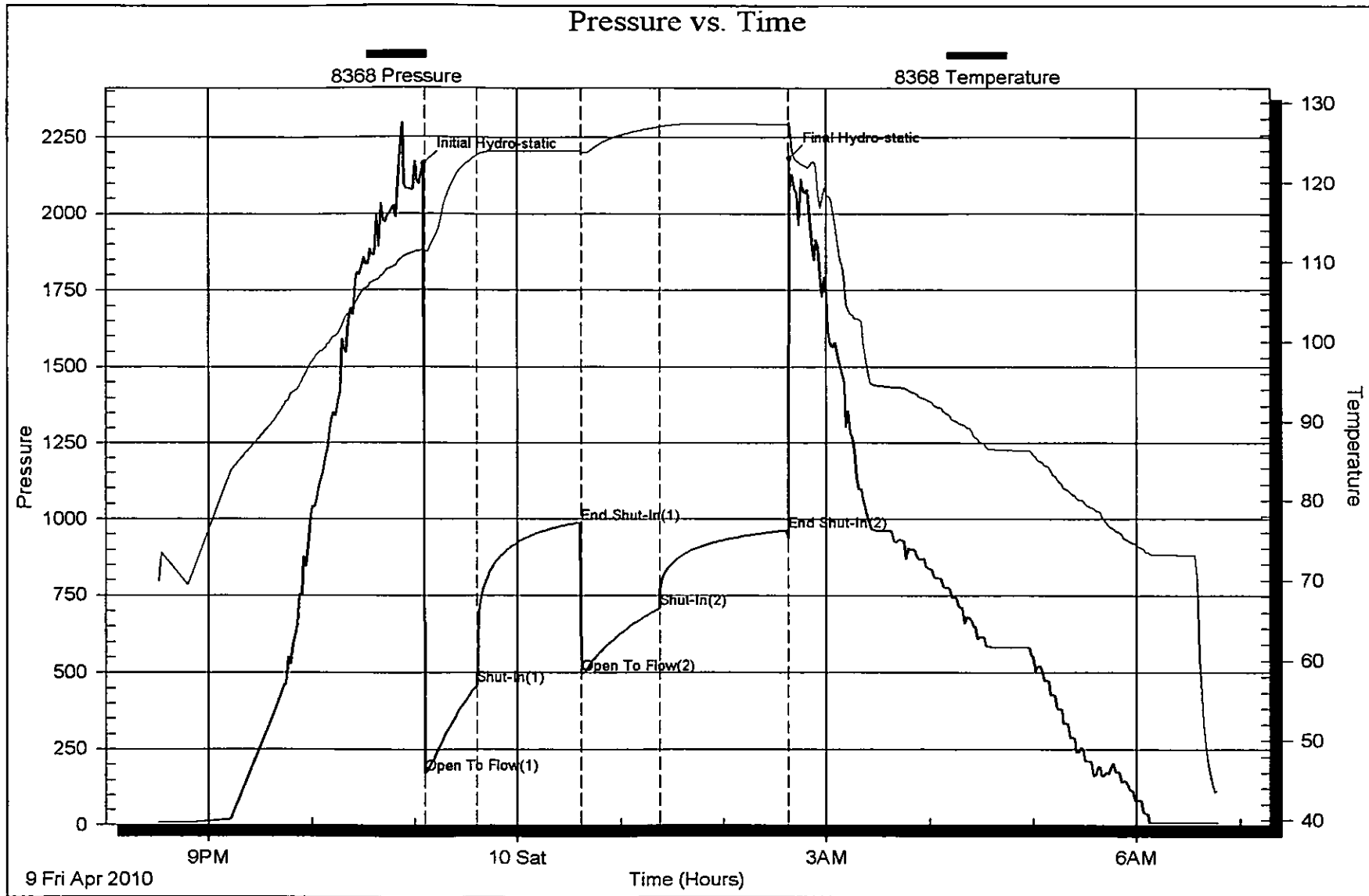
Num Gas Bombs: 0

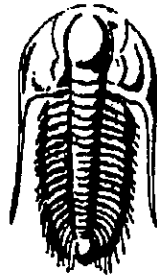
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, KS 67202

ATTN: Kim Shoemaker

5-17-29 Lane, KS

Munsell #2

Start Date: 2010.04.10 @ 18:30:24

End Date: 2010.04.11 @ 04:05:19

Job Ticket #: 37788 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raymond Oil Company

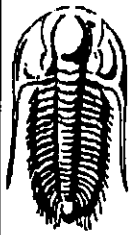
Munsell #2

5-17-29 Lane, KS

DST # 6

Allamont - Pawnee

2010.04.10



**TRIBOLITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37788

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2010.04.10 @ 18:30:24

GENERAL INFORMATION:

Formation: **Altamont - Pawnee**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 20:26:34

Time Test Ended: 04:05:19

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **40**

Interval: **4320.00 ft (KB) To 4410.00 ft (KB) (TVD)**

Reference Elevations: **2829.00 ft (KB)**

Total Depth: **4410.00 ft (KB) (TVD)**

2824.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

Serial #: **6771**

Outside

Press@RunDepth: **580.54 psig @ 4321.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.04.10**

End Date:

2010.04.11

Last Calib.:

2010.04.11

Start Time: **18:30:24**

End Time:

03:54:19

Time On Btm

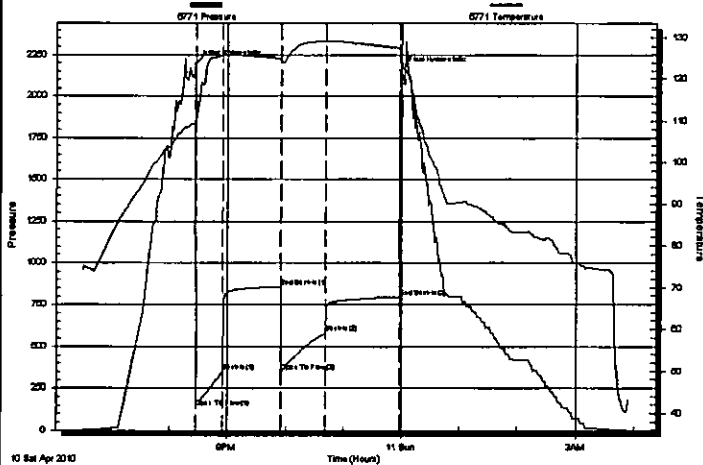
2010.04.10 @ 20:26:04

Time Off Btm

2010.04.10 @ 23:58:48

TEST COMMENT: B.O.B. in 2 1/2 min
Return to B.O.B. in 5 min
B.O.B. @ open
Bled off throughout

Pressure vs. Time



PRESSURE SUMMARY

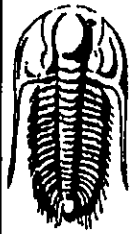
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.09	109.54	Initial Hydro-static
1	134.49	109.02	Open To Flow (1)
29	348.66	125.76	Shut-In(1)
89	858.80	124.87	End Shut-In(1)
89	348.56	124.57	Open To Flow (2)
136	580.54	128.96	Shut-In(2)
212	795.31	127.46	End Shut-In(2)
213	2156.16	126.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1384.00	c g o 30%g 70%o	19.41
124.00	g o c m 30%g 15%o 55%m	1.74
0.00	1528' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37788

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2010.04.10 @ 18:30:24

Tool Information

Drill Pipe:	Length: 4318.00 ft	Diameter: 3.80 inches	Volume: 60.57 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4320.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	117.00 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			4294.00	
Shut In Tool	5.00			4299.00	
Hydraulic tool	5.00			4304.00	
Jars	5.00			4309.00	
Safety Joint	2.00			4311.00	
Packer	5.00			4316.00	27.00 Bottom Of Top Packer
Packer	4.00			4320.00	
Stubb	1.00			4321.00	
Recorder	0.00	6771	Outside	4321.00	
Recorder	0.00	8368	Inside	4321.00	
Perforations	19.00			4340.00	
Change Over Sub	1.00			4341.00	
Drill Pipe	63.00			4404.00	
Change Over Sub	1.00			4405.00	
Bullnose	5.00			4410.00	90.00 Bottom Packers & Anchor
Total Tool Length:	117.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37788

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2010.04.10 @ 18:30:24

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 7.16 in³
Resistivity: 0.00 ohm.m
Salinity: 1400.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 31 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1384.00	c g o 30%g 70%o	19.414
124.00	g o c m 30%g 15%o 55%m	1.739
0.00	1528' GIP	0.000

Total Length: 1508.00ft Total Volume: 21.153 bbl

Num Fluid Samples: 0

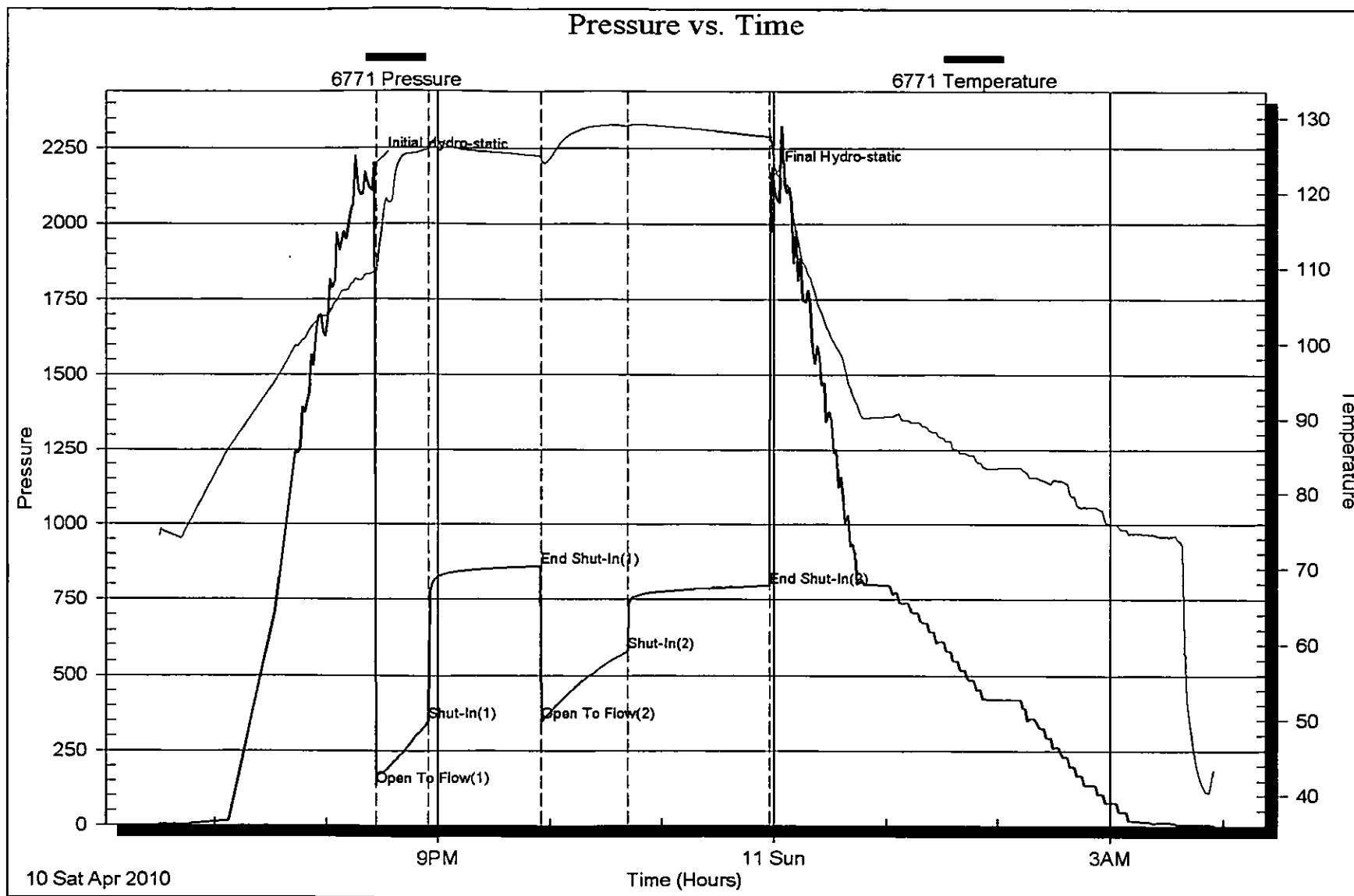
Num Gas Bombs: 0

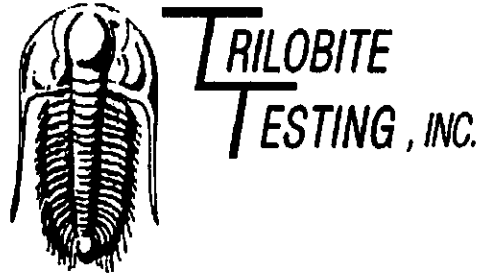
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, KS 67202

ATTN: Kim Shoemaker

5-17-29 Lane, KS

Munsell #2

Start Date: 2010.04.11 @ 12:26:04

End Date: 2010.04.11 @ 21:55:44

Job Ticket #: 37789 DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raymond Oil Company

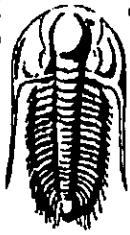
Munsell #2

5-17-29 Lane, KS

DST # 7

Myrick Station

2010.04.11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Raymond Oil Company
P.O. Box 48788
Wichita, KS 67202
ATTN: Kim Shoemaker

Munsell #2
5-17-29 Lane, KS
Job Ticket: 37789 DST#: 7
Test Start: 2010.04.11 @ 12:26:04

GENERAL INFORMATION:

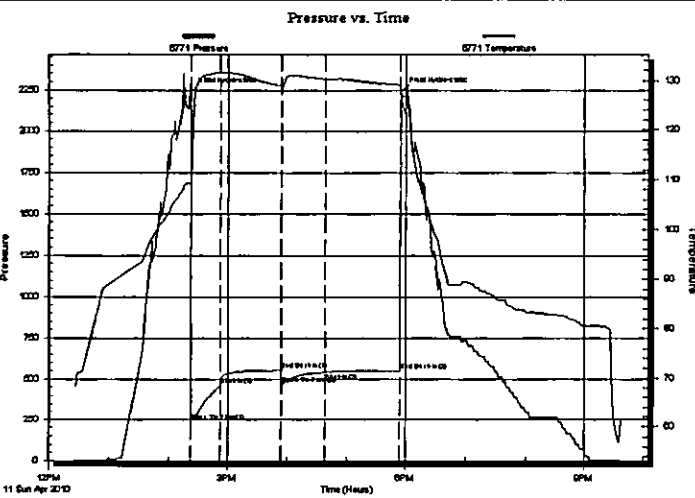
Formation: Myrick Station
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:21:44
Time Test Ended: 21:55:44

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

Interval: 4413.00 ft (KB) To 4442.00 ft (KB) (TVD) Reference Elevations: 2829.00 ft (KB)
Total Depth: 4442.00 ft (KB) (TVD) 2824.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6771 Outside
Press@RunDepth: 542.22 psig @ 4414.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.04.11 End Date: 2010.04.11 Last Calib.: 2010.04.11
Start Time: 12:26:04 End Time: 21:36:44 Time On Btm: 2010.04.11 @ 14:21:29
Time Off Btm: 2010.04.11 @ 17:55:13

TEST COMMENT: B.O.B. in 1 min.
Return to B.O.B. in 10 min.
B.O.B. @ open
Bled off throughout



PRESSURE SUMMARY

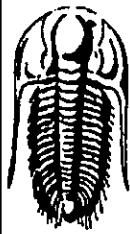
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.05	109.27	Initial Hydro-static
1	234.64	108.29	Open To Flow (1)
31	461.79	131.53	Shut-In(1)
92	554.20	128.86	End Shut-In(1)
93	467.53	128.79	Open To Flow (2)
136	542.22	130.23	Shut-In(2)
213	551.19	129.06	End Shut-In(2)
214	2244.69	127.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1456.00	c g o 30%g 70%o	20.42
62.00	m c g o 25%m 40%g 35%o	0.87
0.00	1891' gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37789

DST#: 7

ATTN: Kim Shoemaker

Test Start: 2010.04.11 @ 12:26:04

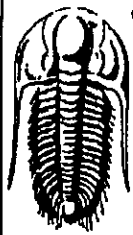
Tool Information

Drill Pipe:	Length: 4413.00 ft	Diameter: 3.80 inches	Volume: 61.90 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4413.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	56.00 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			4387.00	
Shut In Tool	5.00			4392.00	
Hydraulic tool	5.00			4397.00	
Jars	5.00			4402.00	
Safety Joint	2.00			4404.00	
Packer	5.00			4409.00	27.00 Bottom Of Top Packer
Packer	4.00			4413.00	
Stubb	1.00			4414.00	
Recorder	0.00	6771	Outside	4414.00	
Recorder	0.00	8368	Inside	4414.00	
Perforations	23.00			4437.00	
Bullnose	5.00			4442.00	29.00 Bottom Packers & Anchor

Total Tool Length: 56.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37789

DST#: 7

ATTN: Kim Shoemaker

Test Start: 2010.04.11 @ 12:26:04

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1456.00	c g o 30%g 70%o	20.424
62.00	m c g o 25%m 40%g 35%o	0.870
0.00	1891' gas in pipe	0.000

Total Length: 1518.00 ft

Total Volume: 21.294 bbl

Num Fluid Samples: 0

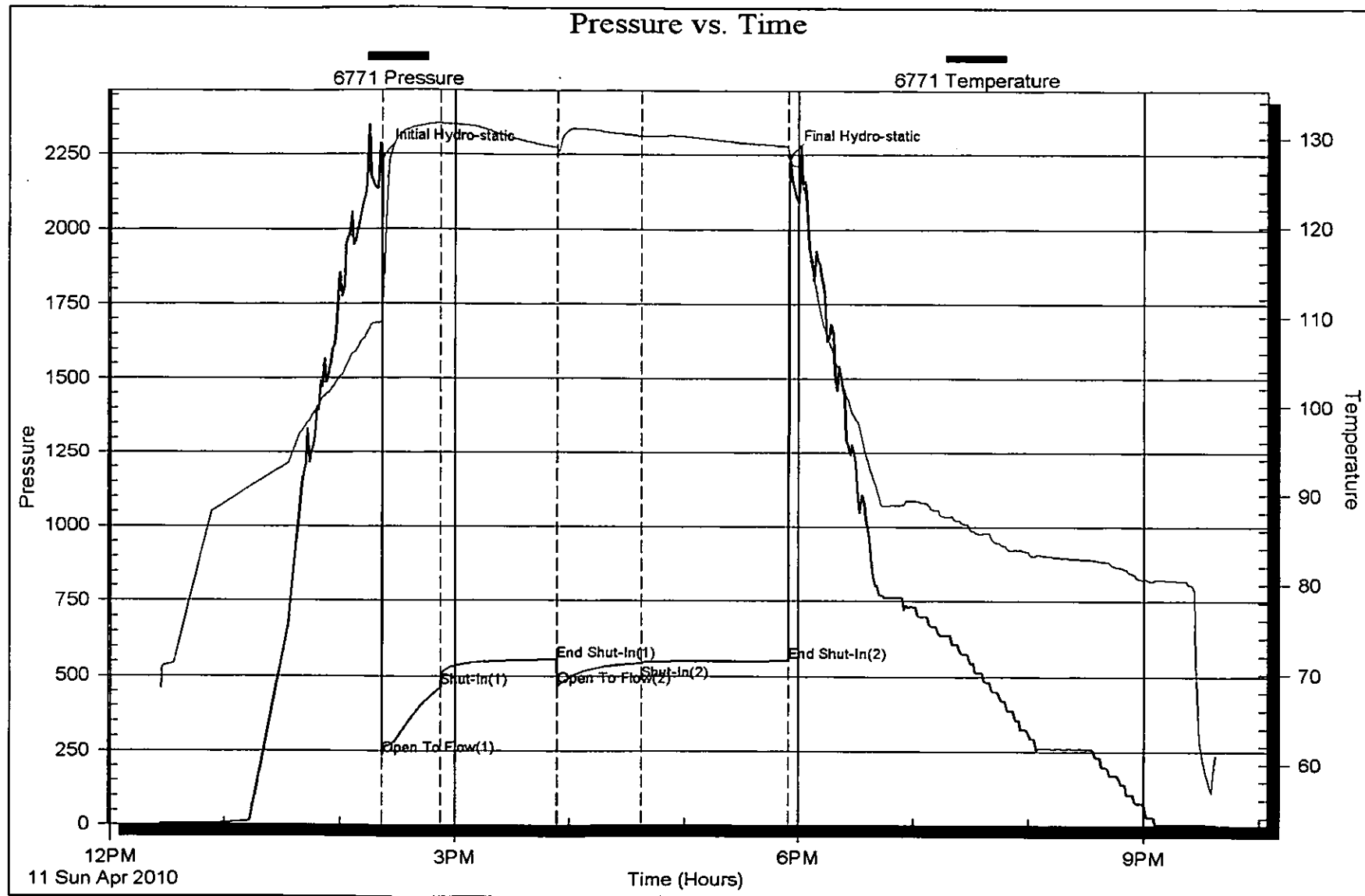
Num Gas Bombs: 0

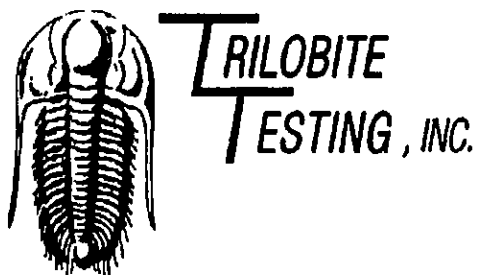
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, KS 67202

ATTN: Kim Shoemaker

5-17-29 Lane, KS

Munsell #2

Start Date: 2010.04.14 @ 09:15:08

End Date: 2010.04.14 @ 16:45:02

Job Ticket #: 37790 DST #: 8

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raymond Oil Company

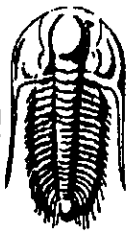
Munsell #2

5-17-29 Lane, KS

DST # 8

Ft Scott, Cherokee

2010.04.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company
P.O. Box 48788
Wichita, KS 67202
ATTN: Kim Shoemaker

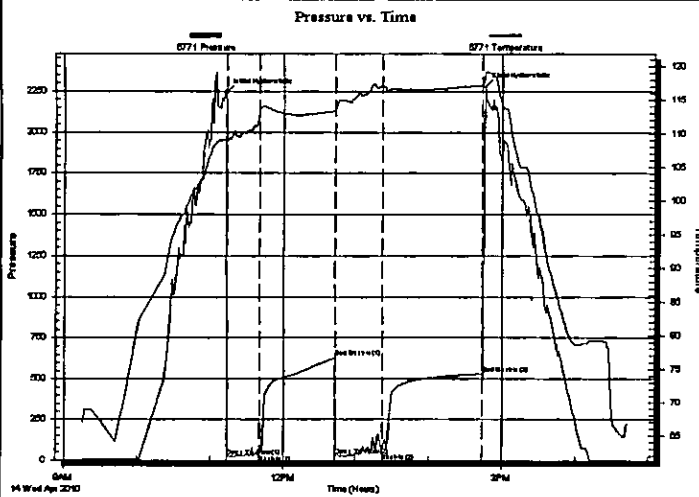
Munsell #2
5-17-29 Lane, KS
Job Ticket: 37790 DST#: 8
Test Start: 2010.04.14 @ 09:15:08

GENERAL INFORMATION:

Formation: **Ft Scott, Cherokee**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 11:13:18
Time Test Ended: 16:45:02
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **40**
Interval: **4440.00 ft (KB) To 4492.00 ft (KB) (TVD)**
Reference Elevations: **2829.00 ft (KB)**
Total Depth: **4492.00 ft (KB) (TVD)**
2824.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
KB to GR/CF: **5.00 ft**

Serial #: 6771 **Outside**
Press@RunDepth: **43.03 psig @ 4441.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.04.14** End Date: **2010.04.14** Last Calib.: **2010.04.14**
Start Time: **09:15:08** End Time: **16:43:02** Time On Btmr: **2010.04.14 @ 11:12:48**
Time Off Btmr: **2010.04.14 @ 14:45:32**

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



PRESSURE SUMMARY

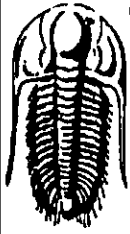
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.84	109.32	Initial Hydro-static
1	21.49	108.82	Open To Flow (1)
28	33.09	113.42	Shut-In(1)
90	627.32	113.28	End Shut-In(1)
90	30.46	113.20	Open To Flow (2)
129	43.03	117.04	Shut-In(2)
211	529.14	117.26	End Shut-In(2)
213	2276.52	119.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100% m	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37790

DST#: 8

ATTN: Kim Shoemaker

Test Start: 2010.04.14 @ 09:15:08

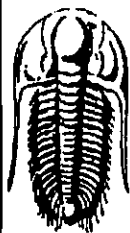
Tool Information

Drill Pipe:	Length: 4443.00 ft	Diameter: 3.80 inches	Volume: 62.32 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 62.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4440.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 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			4414.00	
Shut In Tool	5.00			4419.00	
Hydraulic tool	5.00			4424.00	
Jars	5.00			4429.00	
Safety Joint	2.00			4431.00	
Packer	5.00			4436.00	27.00 Bottom Of Top Packer
Packer	4.00			4440.00	
Stubb	1.00			4441.00	
Recorder	0.00	6771	Outside	4441.00	
Recorder	0.00	8368	Inside	4441.00	
Perforations	12.00			4453.00	
Change Over Sub	1.00			4454.00	
Drill Pipe	32.00			4486.00	
Change Over Sub	1.00			4487.00	
Bullnose	5.00			4492.00	52.00 Bottom Packers & Anchor

Total Tool Length: 79.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37790

DST#: 8

ATTN: Kim Shoemaker

Test Start: 2010.04.14 @ 09:15:08

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 63.00 sec/qt
Water Loss: 6.78 in³
Resistivity: 0.00 ohm.m
Salinity: 2400.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mud 100%m	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

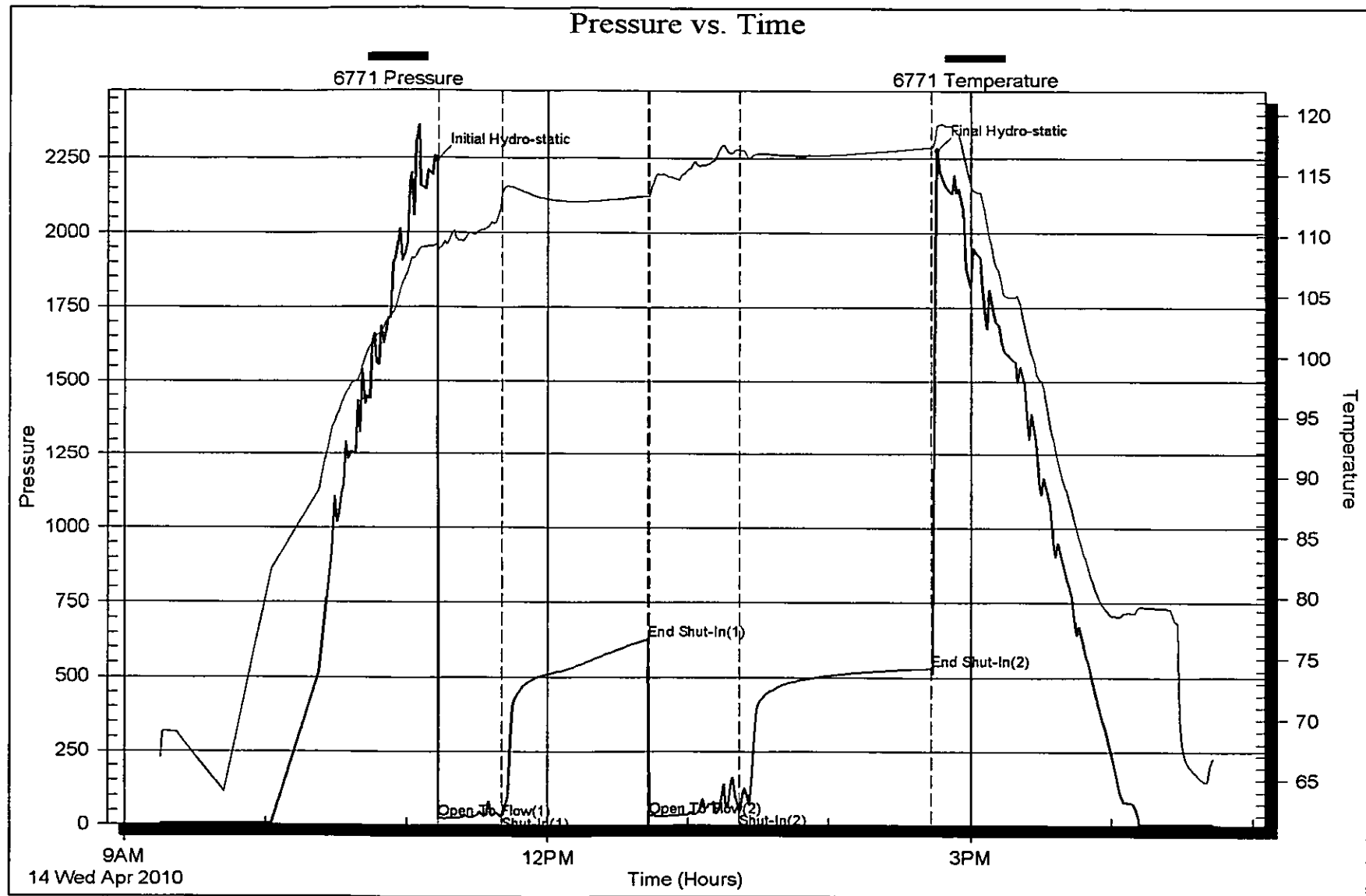
Num Gas Bombs: 0

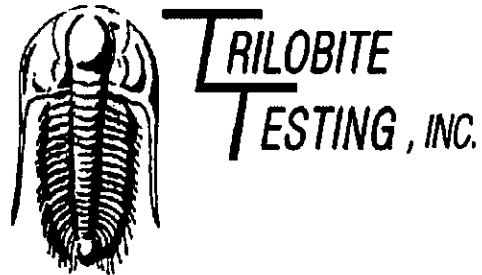
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788
Wichita, KS 67202

ATTN: Kim Shoemaker

5-17-29 Lane, KS

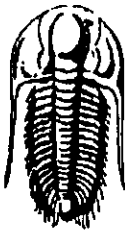
Munsell #2

Start Date: 2010.04.15 @ 01:00:30

End Date: 2010.04.15 @ 09:50:54

Job Ticket #: 37791 DST #: 9

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 Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37791

DST#: 9

ATTN: Kim Shoemaker

Test Start: 2010.04.15 @ 01:00:30

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 03:18:55

Time Test Ended: 09:50:54

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **40**

Interval: **4489.00 ft (KB) To 4526.00 ft (KB) (TVD)**

Reference Elevations: **2829.00 ft (KB)**

Total Depth: **4526.00 ft (KB) (TVD)**

2824.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **5.00 ft**

Serial #: **6771**

Outside

Press@RunDepth: **219.61 psig @ 4490.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.04.15**

End Date:

2010.04.15

Last Calib.: **2010.04.15**

Start Time: **01:00:30**

End Time:

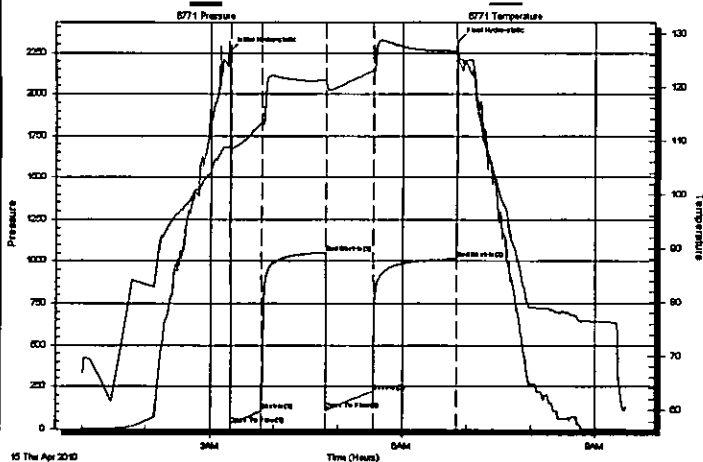
09:30:54

Time On Btm: **2010.04.15 @ 03:18:25**

Time Off Btm: **2010.04.15 @ 06:51:54**

TEST COMMENT: B.O.B. in 7 1/2 min.
4 1/2" in return
4 1/2" in @ open B.O.B. in 7 min.
5" in return

Pressure vs. Time



PRESSURE SUMMARY

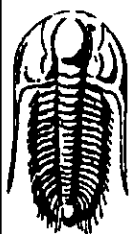
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.96	108.73	Initial Hydro-static
1	29.52	108.04	Open To Flow (1)
30	108.27	113.49	Shut-In(1)
90	1050.41	121.20	End Shut-In(1)
90	112.56	120.80	Open To Flow (2)
135	219.61	123.18	Shut-In(2)
212	1014.15	126.78	End Shut-In(2)
214	2314.92	125.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
526.00	c g o 15%g 85%o	7.38
62.00	g m c o 25%g 30%m 45%o	0.87
0.00	898' gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37791

DST#: 9

ATTN: Kim Shoemaker

Test Start: 2010.04.15 @ 01:00:30

Tool Information

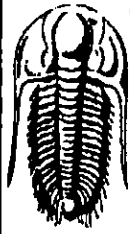
Drill Pipe:	Length: 4480.00 ft	Diameter: 3.80 inches	Volume: 62.84 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.84 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4489.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	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			4463.00	
Shut In Tool	5.00			4468.00	
Hydraulic tool	5.00			4473.00	
Jars	5.00			4478.00	
Safety Joint	2.00			4480.00	
Packer	5.00			4485.00	27.00 Bottom Of Top Packer
Packer	4.00			4489.00	
Stubb	1.00			4490.00	
Recorder	0.00	6771	Outside	4490.00	
Recorder	0.00	8368	Inside	4490.00	
Perforations	31.00			4521.00	
Bullnose	5.00			4526.00	37.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #2

P.O. Box 48788
Wichita, KS 67202

5-17-29 Lane, KS

Job Ticket: 37791

DST#: 9

ATTN: Kim Shoemaker

Test Start: 2010.04.15 @ 01:00:30

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
526.00	c g o 15%g 85%o	7.378
62.00	g m c o 25%g 30%m 45%o	0.870
0.00	898' gas in pipe	0.000

Total Length: 588.00 ft Total Volume: 8.248 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

