



Operator Name: RAYMOND OIL COMPANY INC Lease Name: BEVER Well #: 1  
 Sec. 11 Twp. 14 S. R. 32  East  West County: LOGAN

**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 type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>CEMENT BOND, DUAL INDUCTION, MICRO,                  NEUTRON DENSITY</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>STOTLER</td> <td>3449</td> <td>-624</td> </tr> <tr> <td>LANSING</td> <td>3853</td> <td>-1028</td> </tr> <tr> <td>MUNCIE CREEK</td> <td>4013</td> <td>-1188</td> </tr> <tr> <td>MYRIC STATION</td> <td>4344</td> <td>-1519</td> </tr> <tr> <td>ST. LOUIS</td> <td>4539</td> <td>-1714</td> </tr> </tbody> </table>	Name	Top	Datum	STOTLER	3449	-624	LANSING	3853	-1028	MUNCIE CREEK	4013	-1188	MYRIC STATION	4344	-1519	ST. LOUIS	4539	-1714
Name	Top	Datum																	
STOTLER	3449	-624																	
LANSING	3853	-1028																	
MUNCIE CREEK	4013	-1188																	
MYRIC STATION	4344	-1519																	
ST. LOUIS	4539	-1714																	

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"	23#	261'	COMMON	165	3%CC, 2%GEL
DV				2105'	60/40 LITE	425	
PRODUCTION	7 7/8"	4 1/2"	10.5#	4638'	60/40 POZMIX	300	7.5%NaCl, 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
4	4502-4530	1000GALS 7.5% MUD ACID	

TUBING RECORD:	Size: <u>2"</u>	Set At: <u>4651</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>01/01/2010</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	50	0	0		

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 <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4502-4530</u>
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**CONSOLIDATED**  
Oil Well Services, LLC

KCC  
JAN 06 2011

TICKET NUMBER 24470

LOCATION Oakley Ks

FOREMAN Walt Dunkel

**CONFIDENTIAL**  
**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-25-10		Bever #1	11	145	32 <sup>W</sup>	Logan
CUSTOMER Raymond Oil Co.						
MAILING ADDRESS P.O. Box 48788			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Wichita			445	Shannon F		
STATE Kan			439	Miles S.		
ZIP CODE 67201				Billy P.		

JOB TYPE Surface-O HOLE SIZE 12 1/4 HOLE DEPTH 264' CASING SIZE & WEIGHT 8 5/8 - 23#  
 CASING DEPTH 261' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 15'  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 BPM

REMARKS: Safety Meeting  
Big up to casing, mixed 165 sks com, 3% SCC - 2% Cal, release Plug  
& Displace 15 3/4 BBL water @ 200#, Shut in

Circ Cement to Surface

RECEIVED

JAN 07 2011

Thank you KCC WICHITA  
Walt Dunkel

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 S	1	PUMP CHARGE	985 <sup>00</sup>	985 <sup>00</sup>
5406	20	MILEAGE	450	90 <sup>00</sup>
1104 S	165 sks	class "A" cement	16 <sup>00</sup>	2640 <sup>00</sup>
1102	465 #	Calcium Chloride	188	409 <sup>20</sup>
1118 B	310 #	Bentonite Cal	120	62 <sup>00</sup>
4432	1	8 5/8 Wooden Plug	92 <sup>00</sup>	92 <sup>00</sup>
5407	7.76	Ton mileage Delivery	150	390 <sup>00</sup>
		Subtotal		4,668 <sup>20</sup>
		less 20% Disc		- 933 <sup>64</sup>
				3734 <sup>56</sup>
		SALES TAX		
		ESTIMATED TOTAL		

Ravin 3737

OPERATION David L. Does

TITLE \_\_\_\_\_

DATE \_\_\_\_\_



**CONSOLIDATED**  
Oil Well Services, LLC

KCC  
JAN 06 2011

TICKET NUMBER 24477  
LOCATION Oakley Ks  
FOREMAN Pet Heisler

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

**CONFIDENTIAL**  
**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-7-10	7158	Bever #1	11	14 <sup>s</sup>	32 <sup>w</sup>	Logan
CUSTOMER Raymond Oil Co. Inc.			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			STATE			
ZIP CODE			MIX PSI			
			RATE			

JOB TYPE Prod-DV-O HOLE SIZE 7 7/8 HOLE DEPTH 4657' CASING SIZE & WEIGHT 4 1/2" -108#  
 CASING DEPTH 4638' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DV-2105  
 SLURRY WEIGHT 12.8 14.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 7.5 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting, Centralizers 2, 1, 3, 5, 7, 9, 13, 61 DV Tool on 61  
Basket on 61, Rig up to casing circ 30 min mixed 300 sks 69/40 per, 7 1/2% Salt  
2% Gel, Clear Pump Lines, Displace 40 BBL water and 35 BBL mud  
@ 850 # max, Land Plug @ 1300# release Pressure Held  
Open DV Tool, mixed 425 sks 69/40 per, 8% gel, 1/4# Flo Seal, Clear Pump  
Lines, Displace 34 BBL water behind Plug @ 800 # max, close Tool @ 1600#  
release Pressure. Held  
25 sks in Bkt. Cement Did Circ

Thank You  
Pat & Creel

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401P	1	PUMP CHARGE	2950 <sup>00</sup>	2950 <sup>00</sup>
5406	20	MILEAGE one-way From Oakley	450	90 <sup>00</sup>
1131	300 sks	69/40 per, Bottom Stage	13 <sup>00</sup>	3900 <sup>00</sup>
1131	450 sks	69/40 per, Top Stage	13 <sup>00</sup>	5850 <sup>00</sup>
1111	1200#	Salt	140	480 <sup>00</sup>
1118 B	3612#	Bentonite Gel RECEIVED	120	722 <sup>40</sup>
1107	113#	Flo Seal	250	282 <sup>50</sup>
4156	1	AFU Floct Shoe	252 <sup>00</sup>	252 <sup>00</sup>
4129	7	Centralizers KGC WICHITA	44 <sup>00</sup>	9308 <sup>00</sup>
4103	1	Basket	249 <sup>00</sup>	249 <sup>00</sup>
4276	1	DV Tool	3280 <sup>00</sup>	3280 <sup>00</sup>
5407A	32.25	Ton Mileage Delivery	150	967 <sup>00</sup>
			19330.90	
			- 3866.18	
			15464.72	
			1195.27	
			16659.99	

237201 subtotal  
Less 20% Disc

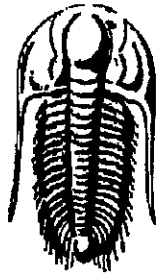
Rev'n 3737

AUTHORIZATION \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

SALES TAX  
ESTIMATED  
TOTAL



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788  
Wichita, KS 67201

ATTN: Kim Shoemaker

**11-14s-32w Logan,KS**

**Bever #1**

Start Date: 2010.10.01 @ 05:47:24

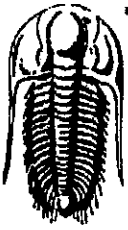
End Date: 2010.10.01 @ 12:50:18

Job Ticket #: 040247      DST #: 1

**KCC  
JAN 06 2011  
CONFIDENTIAL**

**RECEIVED  
JAN 07 2011  
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 Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040247

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2010.10.01 @ 05:47:24

### GENERAL INFORMATION:

Formation: **LKC 120-180**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:37:49

Time Test Ended: 12:50:18

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4011.00 ft (KB) To 4091.00 ft (KB) (TVD)**

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4091.00 ft (KB) (TVD)

2820.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8373**

Inside

Press@RunDepth: 17.87 psig @ 4012.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.01

End Date:

2010.10.01

Last Calib.:

2010.10.01

Start Time: 05:47:24

End Time:

12:50:18

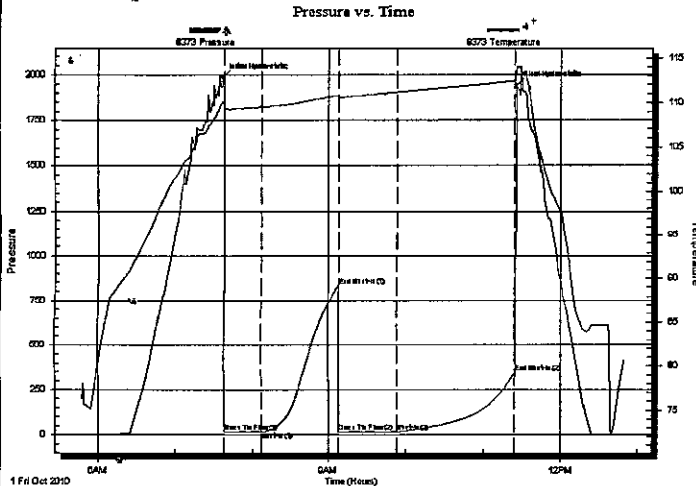
Time On Btm:

2010.10.01 @ 07:36:19

Time Off Btm:

2010.10.01 @ 11:25:33

**TEST COMMENT:** IF: 1/4 blow built to 1 in 15 min died in 25 min.  
IS: No return.  
FF: Weak Surface blow never built.  
FS: No return.



### PRESSURE SUMMARY

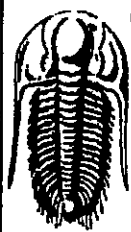
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1986.29	110.11	Initial Hydro-static
2	15.92	109.08	Open To Flow (1)
31	17.17	109.51	Shut-In(1)
92	829.62	110.78	End Shut-In(1)
93	18.98	110.42	Open To Flow (2)
137	17.87	111.11	Shut-In(2)
228	343.73	112.44	End Shut-In(2)
230	1944.31	113.94	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1.00	free oil 100%o	0.01
14.00	ocm 10%o 90%r	0.20

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040247

DST#: 1

ATTN: Kim Shoemaker

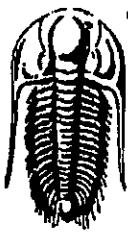
Test Start: 2010.10.01 @ 05:47:24

**Tool Information**

Drill Pipe:	Length: 3998.00 ft	Diameter: 3.80 inches	Volume: 56.08 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<b>Total Volume: 56.08 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4011.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3989.00	
Shut In Tool	5.00			3994.00	
Hydraulic tool	5.00			3999.00	
Safety Joint	3.00			4002.00	
Packer	5.00			4007.00	23.00 Bottom Of Top Packer
Packer	4.00			4011.00	
Stubb	1.00			4012.00	
Recorder	0.00	8373	Inside	4012.00	
Recorder	0.00	8289	Outside	4012.00	
Perforations	10.00			4022.00	
Change Over Sub	1.00			4023.00	
Drill Pipe	62.00			4085.00	
*Change Over Sub	1.00			4086.00	
Bullnose	5.00			4091.00	80.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>103.00</b>			



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040247

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2010.10.01 @ 05:47:24

## 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: 53.00 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: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	free oil 100%o	0.014
14.00	ocm 10%o 90%m	0.196

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

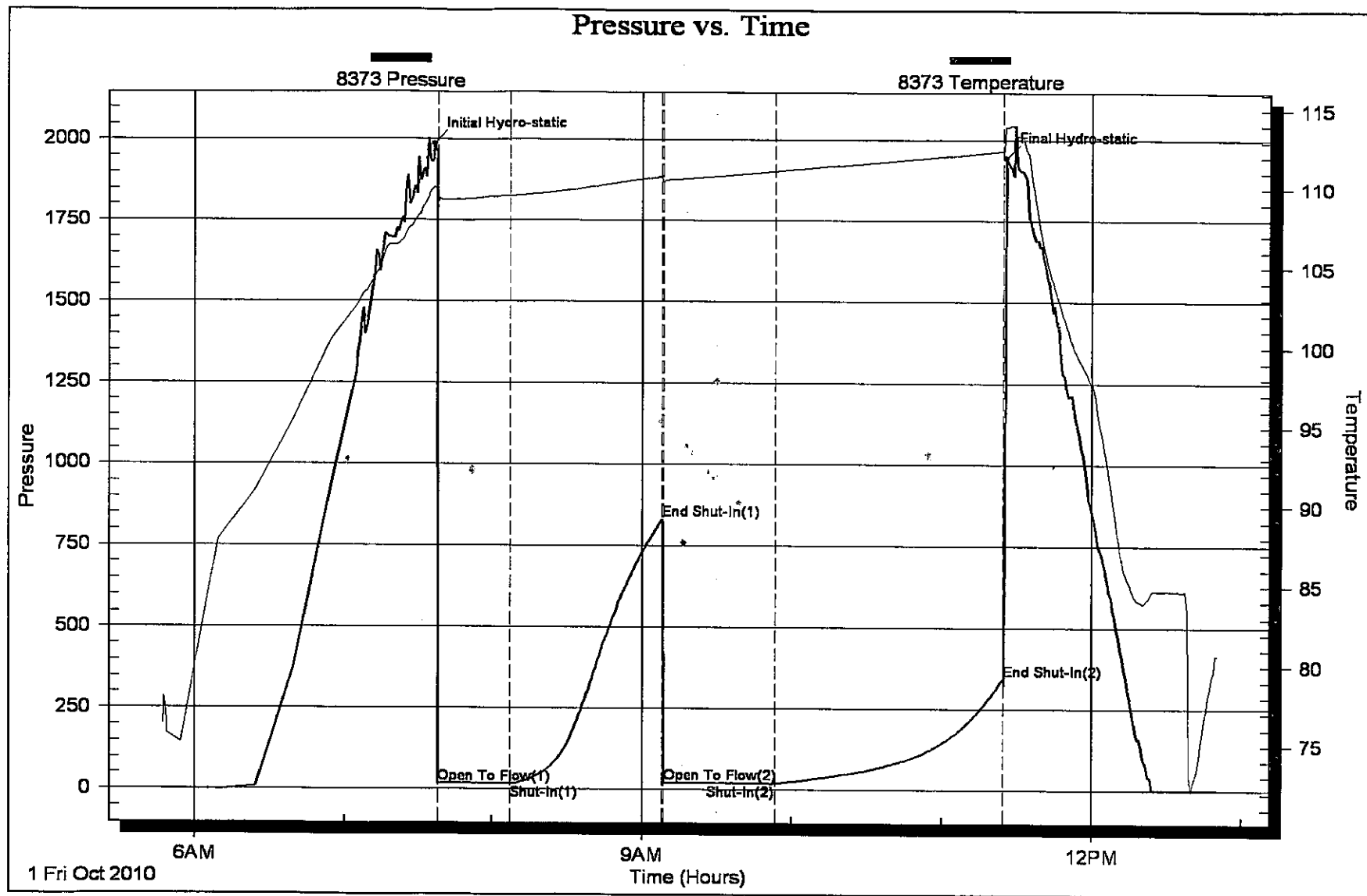
Serial #:

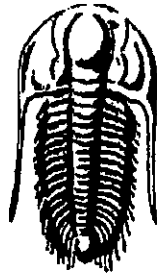
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788  
Wichita, KS 67201

ATTN: Kim Shoemaker

**11-14s-32w Logan,KS**

**Bever #1**

Start Date: 2010.10.01 @ 19:36:34

End Date: 2010.10.02 @ 02:33:43

Job Ticket #: 040248      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raymond Oil Company

Bever #1

11-14s-32w Logan,KS

DST # 2

LKC 200

2010.10.01



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040248

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2010.10.01 @ 19:36:34

### GENERAL INFORMATION:

Formation: **LKC 200**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:15:29

Time Test Ended: 02:33:43

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4097.00 ft (KB) To 4125.00 ft (KB) (TVD)**

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4125.00 ft (KB) (TVD)

2820.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8373**

Inside

Press@RunDepth: 77.06 psig @ 4098.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.01 End Date: 2010.10.02

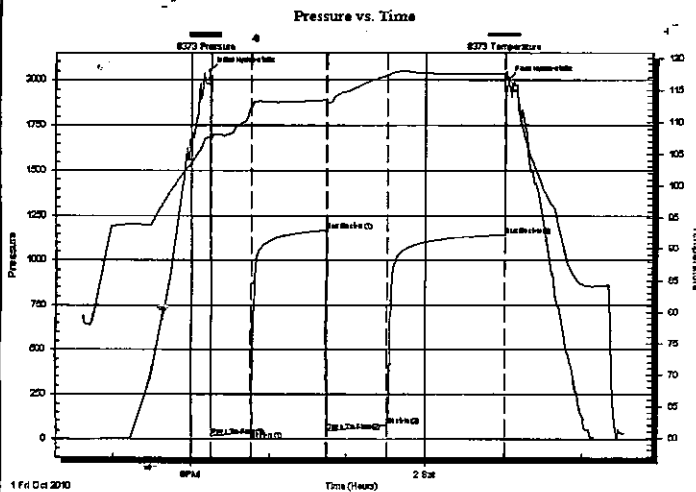
Last Calib.: 2010.10.02

Start Time: 19:36:34 End Time: 02:33:43

Time On Btm: 2010.10.01 @ 21:13:44

Time Off Btm: 2010.10.02 @ 01:02:43

**TEST COMMENT:** IF: 1/4 blow built to 6 in 30 min.  
IS: No return.  
FF: Surface blow built to 5 in 45 min.  
FS: No return.



### PRESSURE SUMMARY

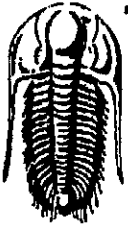
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2049.38	107.73	Initial Hydro-static
2	18.37	107.46	Open To Flow (1)
33	41.91	112.27	Shut-In(1)
91	1171.16	113.43	End Shut-In(1)
91	45.88	112.97	Open To Flow (2)
138	77.06	117.25	Shut-In(2)
227	1146.69	117.54	End Shut-In(2)
229	2001.71	116.43	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2.00	oil 100%o	0.03
18.00	ocw m 2%o 8%w 90%m	0.25
62.00	w cm 40%w 60%m	0.87
62.00	mcw 50%w 50%m	0.87

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040248

DST#: 2

ATTN: Kim Shoemaker

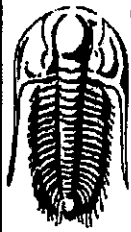
Test Start: 2010.10.01 @ 19:36:34

**Tool Information**

Drill Pipe:	Length: 4092.00 ft	Diameter: 3.80 inches	Volume: 57.40 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4097.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4075.00	
Shut In Tool	5.00			4080.00	
Hydraulic tool	5.00			4085.00	
Safety Joint	3.00			4088.00	
Packer	5.00			4093.00	23.00 Bottom Of Top Packer
Packer	4.00			4097.00	
Stubb	1.00			4098.00	
Recorder	0.00	8373	Inside	4098.00	
Recorder	0.00	8289	Outside	4098.00	
Perforations	22.00			4120.00	
Bullnose	5.00			4125.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040248

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2010.10.01 @ 19:36:34

## 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:

48000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.52 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	oil 100%o	0.028
18.00	ocw m 2%o 8%w 90%m	0.252
62.00	w cm 40%w 60%m	0.870
62.00	mcw 50%w 50%m	0.870

Total Length: 144.00 ft      Total Volume: 2.020 bbl

Num Fluid Samples: 0

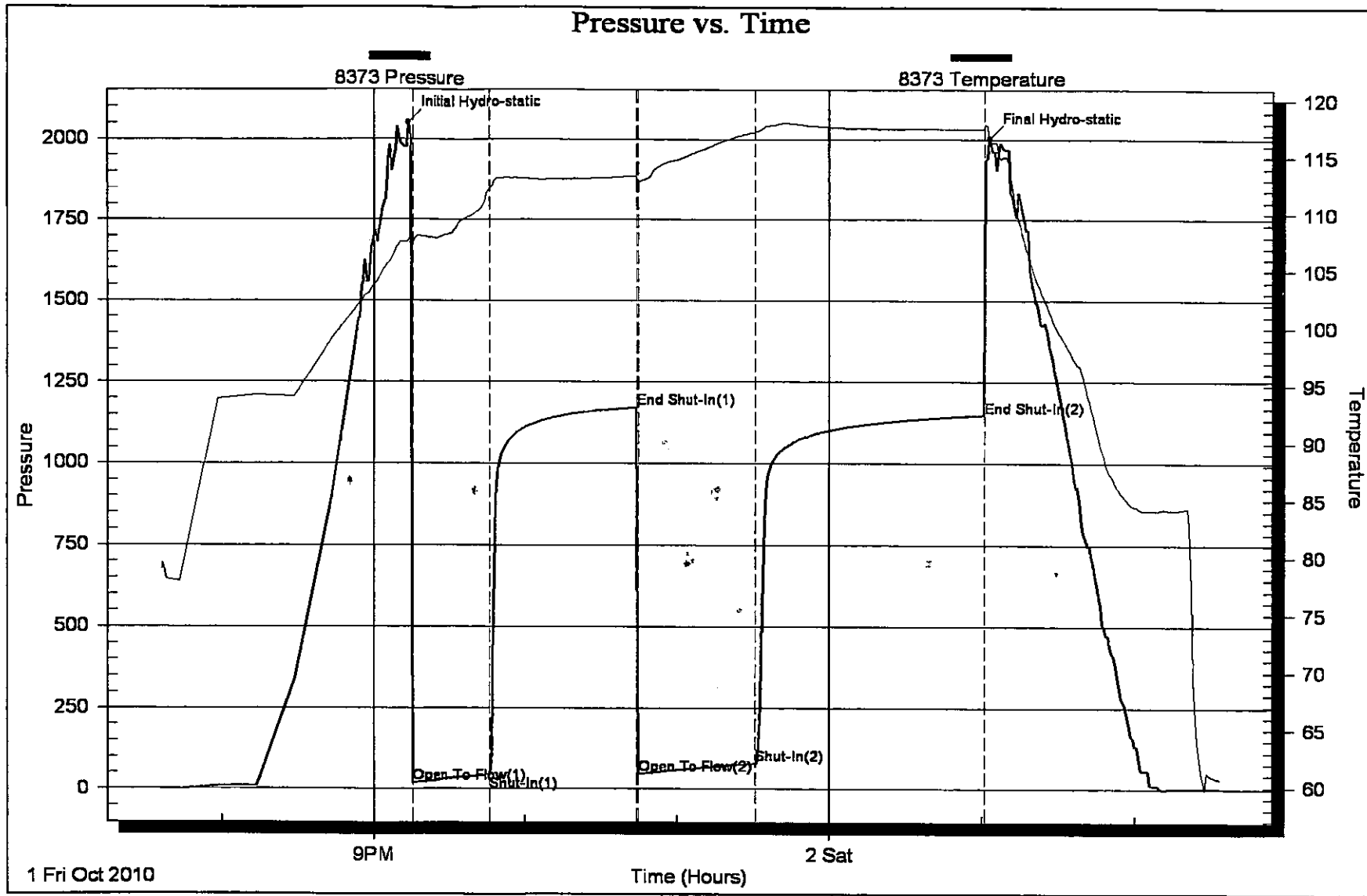
Num Gas Bombs: 0

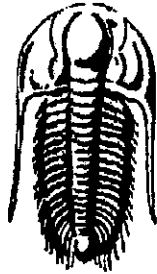
Serial#:

Laboratory Name:

Laboratory Location:

Recovery Comments: .18@59=48000





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788  
Wichita, KS 67201

ATTN: Kim Shoemaker

**11-14s-32w Logan,KS**

**Bever #1**

Start Date: 2010.10.03 @ 03:00:27

End Date: 2010.10.03 @ 10:31:36

Job Ticket #: 040249      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raymond Oil Company

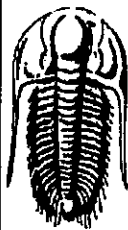
Bever #1

11-14s-32w Logan,KS

DST # 3

Pawnee-Myrick Stat

2010.10.03



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040249      **DST#: 3**

ATTN: Kim Shoemaker

Test Start: 2010.10.03 @ 03:00:27

## GENERAL INFORMATION:

Formation: **Pawnee- Myrick Stati**

Deviated: No Whipstock:                      ft (KB)

Time Tool Opened: 05:07:07

Time Test Ended: 10:31:36

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4298.00 ft (KB) To 4355.00 ft (KB) (TVD)**

Total Depth: **4355.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2825.00 ft (KB)

2820.00 ft (CF)

KB to GR/CF: 5.00 ft

## Serial #: 8373

Inside

Press@RunDepth: 18.04 psig @ 4299.00 ft (KB)

Start Date: 2010.10.03

End Date: 2010.10.03

Start Time: 03:00:27

End Time: 10:31:36

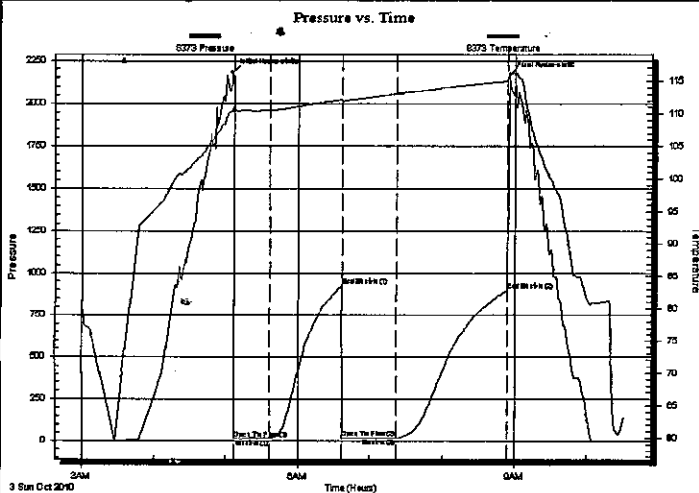
Capacity: 8000.00 psig

Last Calib.: 2010.10.03

Time On Btm: 2010.10.03 @ 05:05:07

Time Off Btm: 2010.10.03 @ 08:55:21

**TEST COMMENT:** IF: Surface blow built to 1/2 in 30 min.  
IS: No return.  
FF: Surface blow built to 1/4 in 45 min.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.67	110.53	Initial Hydro-static
2	16.16	110.35	Open To Flow (1)
32	16.14	110.48	Shut-In(1)
92	921.90	112.07	End Shut-In(1)
92	18.71	111.70	Open To Flow (2)
137	18.04	113.06	Shut-In(2)
229	895.48	115.03	End Shut-In(2)
231	2165.60	116.25	Final Hydro-static

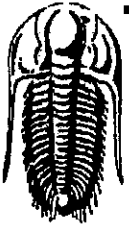
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud oil spots 100% m	0.14

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040249

**DST#: 3**

ATTN: Kim Shoemaker

Test Start: 2010.10.03 @ 03:00:27

**Tool Information**

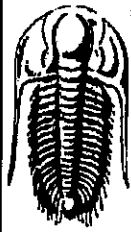
Drill Pipe:	Length: 4284.00 ft	Diameter: 3.80 inches	Volume: 60.09 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4298.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4276.00	
Shut In Tool	5.00			4281.00	
Hydraulic tool	5.00			4286.00	
Safety Joint	3.00			4289.00	
Packer	5.00			4294.00	23.00      Bottom Of Top Packer
Packer	4.00			4298.00	
Stubb	1.00			4299.00	
Recorder	0.00	8373	Inside	4299.00	
Recorder	0.00	8289	Outside	4299.00	
Perforations	17.00			4316.00	
Change Over Sub	1.00			4317.00	
Drill Pipe	32.00			4349.00	
Change Over Sub	1.00			4350.00	
Bullnose	5.00			4355.00	57.00      Bottom Packers & Anchor

**Total Tool Length: 80.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan,KS**

Job Ticket: 040249

**DST#: 3**

ATTN: Kim Shoemaker

Test Start: 2010.10.03 @ 03:00:27

**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:

bbf

Water Loss: 10.33 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
10.00	mud oil spots 100%m	0.140

Total Length: 10.00 ft

Total Volume: 0.140 bbf

Num Fluid Samples: 0

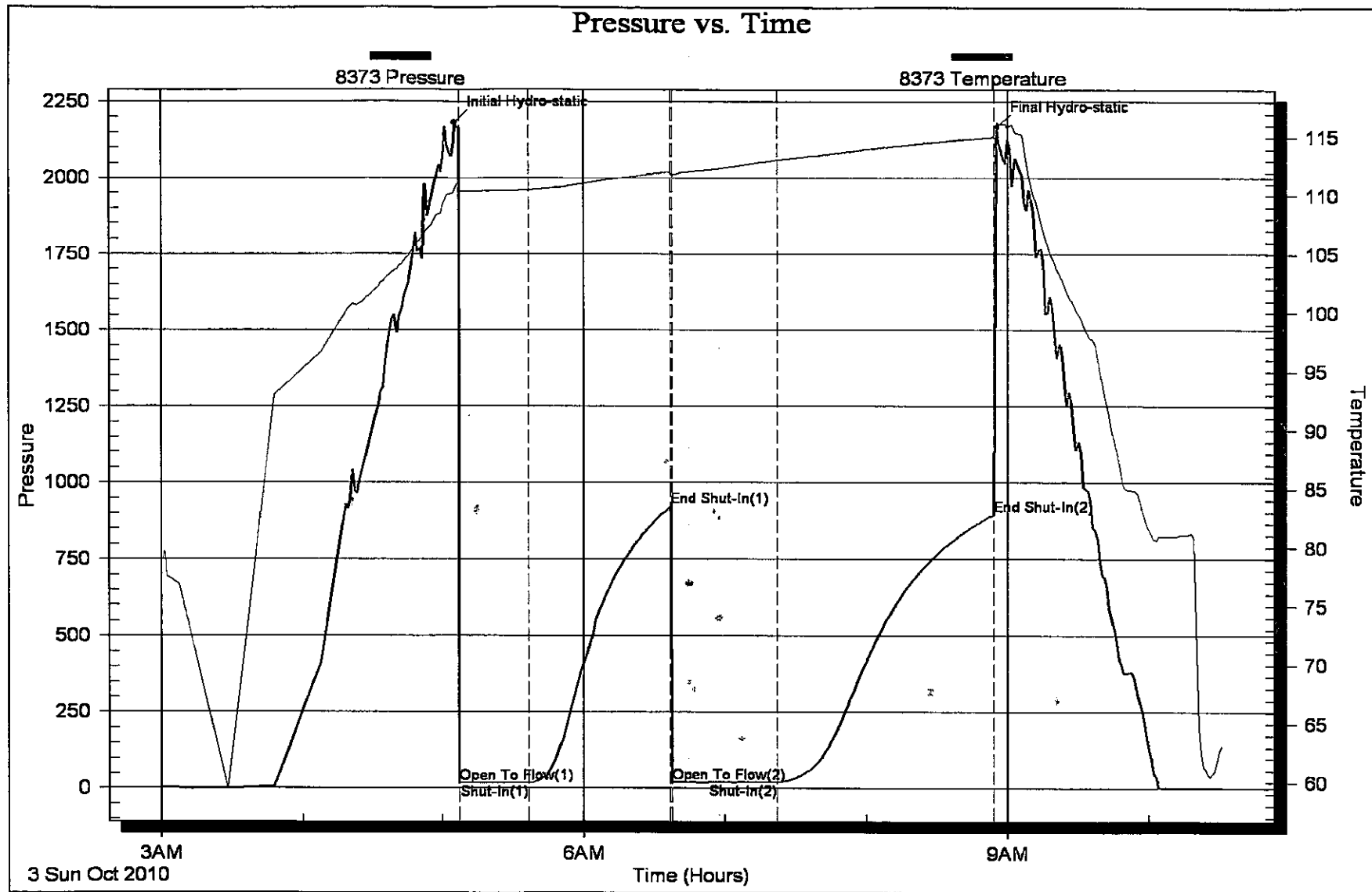
Num Gas Bombs: 0

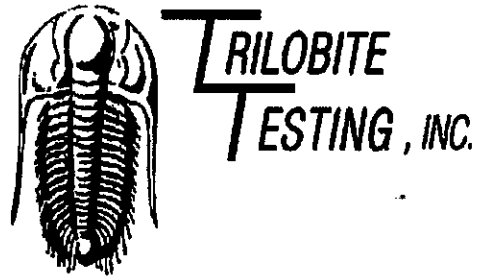
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788  
Wichita, KS 67201

ATTN: Kim Shoemaker

**11-14s-32w Logan,KS**

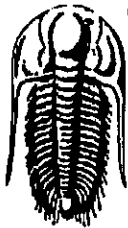
**Bever #1**

Start Date: 2010.10.03 @ 20:35:46

End Date: 2010.10.04 @ 03:40:25

Job Ticket #: 040250      DST #: 4

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

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040250

DST#: 4

ATTN: Kim Shoemaker

Test Start: 2010.10.03 @ 20:35:46

**GENERAL INFORMATION:**

Formation: **Ft. Scott- Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:19:56

Time Test Ended: 03:40:25

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: 4353.00 ft (KB) To 4410.00 ft (KB) (TVD)

Total Depth: 4410.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2825.00 ft (KB)

2820.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8373**

Inside

Press@RunDepth: 17.58 psig @ 4354.00 ft (KB)

Start Date: 2010.10.03

End Date:

2010.10.04

Start Time: 20:35:46

End Time:

03:40:25

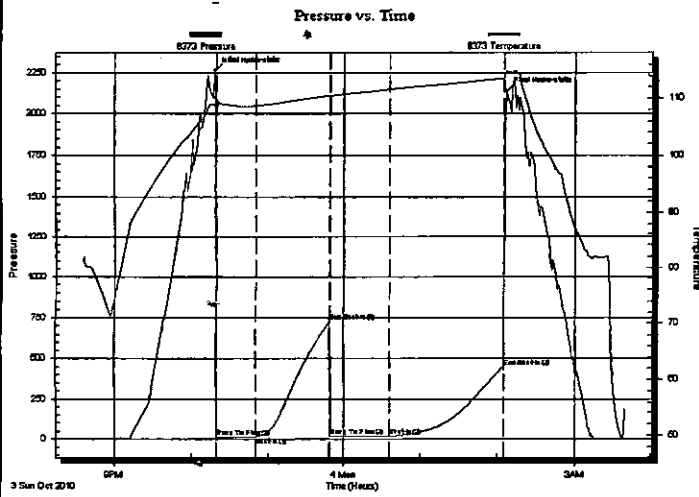
Capacity: 8000.00 psig

Last Calib.: 2010.10.04

Time On Btm: 2010.10.03 @ 22:18:26

Time Off Btm: 2010.10.04 @ 02:06:40

**TEST COMMENT:** IF: Surface blow built to 1/2 in 30 min.  
IS: No return.  
FF: Surface blow built to 1/4 in 45 min.  
FS: No return.



**PRESSURE SUMMARY**

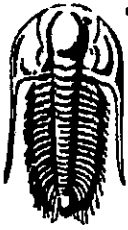
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.58	108.92	Initial Hydro-static
2	12.39	107.84	Open To Flow (1)
32	14.41	108.61	Shut-In(1)
91	721.12	110.42	End Shut-In(1)
92	17.83	110.10	Open To Flow (2)
139	17.58	111.55	Shut-In(2)
227	450.32	113.50	End Shut-In(2)
229	2138.87	114.78	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
7.00	ocm 10%o 90%rn	0.10

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan,KS**

Job Ticket: 040250

**DST#: 4**

ATTN: Kim Shoemaker

Test Start: 2010.10.03 @ 20:35:46

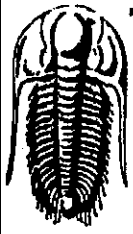
**Tool Information**

Drill Pipe:	Length: 4344.00 ft	Diameter: 3.80 inches	Volume: 60.93 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4353.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

\*Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4331.00	
Shut In Tool	5.00			4336.00	
Hydraulic tool	5.00			4341.00	
Safety Joint	3.00			4344.00	
*Packer	5.00			4349.00	*23.00 * Bottom Of Top Packer
Packer	4.00			4353.00	
Stubb	1.00			4354.00	
Recorder	0.00	8373	Inside	4354.00	
Recorder	0.00	8289	Outside	4354.00	
Perforations	17.00			4371.00	
Change Over Sub	1.00			4372.00	
Drill Pipe	32.00			4404.00	
Change Over Sub	1.00			4405.00	
Bullnose	5.00			4410.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 80.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Company  
P.O. Box 48788  
Wichita, KS 67201  
ATTN: Kim Shoemaker

**Bever #1**  
**11-14s-32w Logan, KS**  
Job Ticket: 040250      DST#: 4  
Test Start: 2010.10.03 @ 20:35:46

**Mud and Cushion Information**

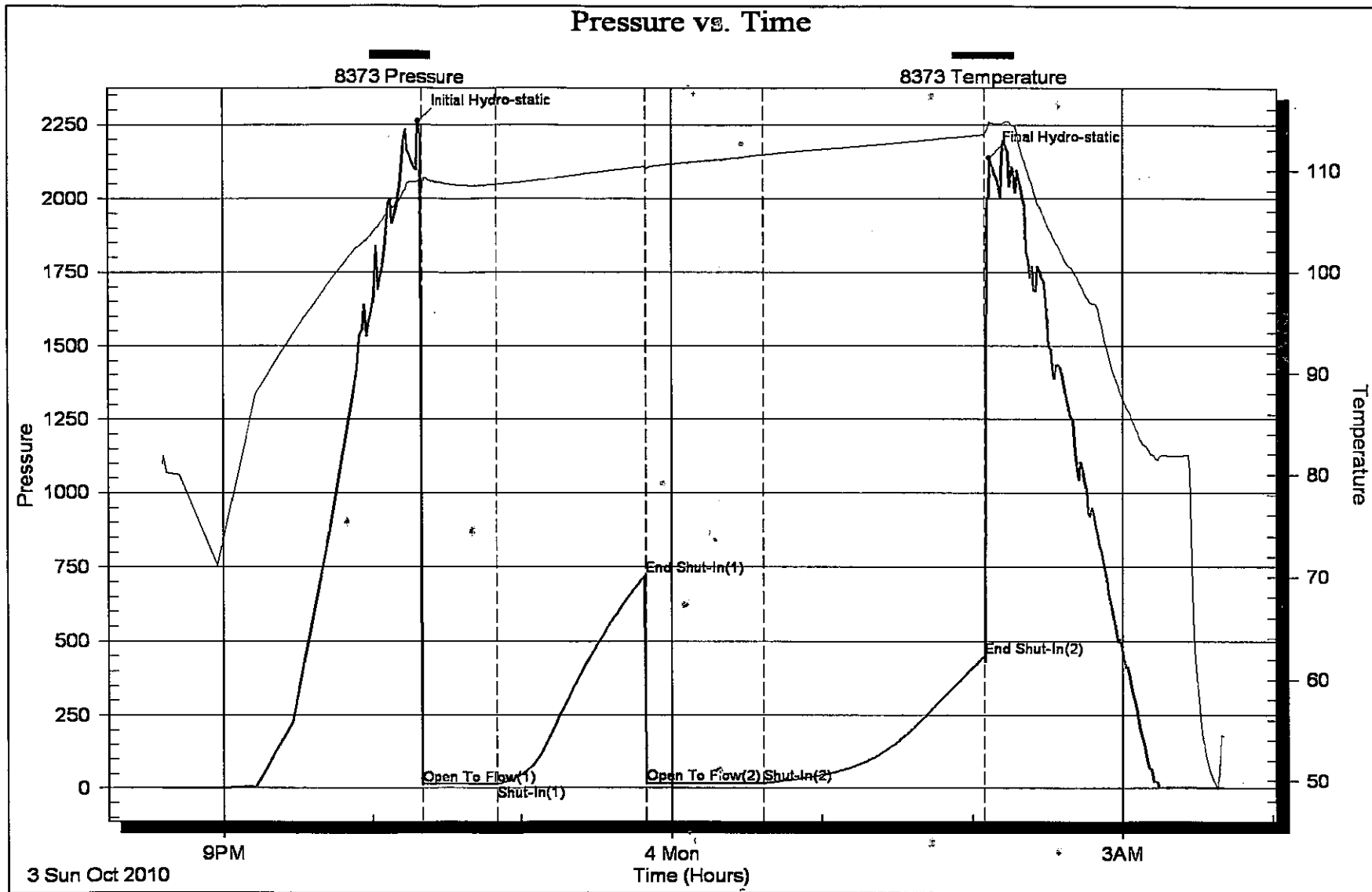
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.74 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

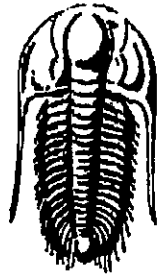
Recovery Table

Length ft	Description	Volume bbl
7.00	ocm 10%o 90%m	0.098

Total Length: 7.00 ft      Total Volume: 0.098 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 67201

ATTN: Kim Shoemaker

**11-14s-32w Logan,KS**

**Bever #1**

Start Date: 2010.10.04 @ 12:34:45

End Date: 2010.10.04 @ 19:39:39

Job Ticket #: 040251      DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raymond Oil Company

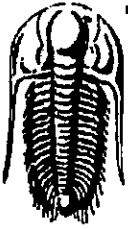
Bever #1

11-14s-32w Logan,KS

DST # 5

Johnson

2010.10.04



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan,KS**

ATTN: Kim Shoemaker

Job Ticket: 040251

DST#: 5

Test Start: 2010.10.04 @ 12:34:45

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:21:25  
 Time Test Ended: 19:39:39

Test Type: Conventional Bottom Hole  
 Tester: Brandon Turley  
 Unit No: 35

Interval: **4408.00 ft (KB) To 4453.00 ft (KB) (TVD)**  
 Total Depth: 4453.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2825.00 ft (KB)  
 2820.00 ft (CF)  
 KB to GR/CF: 5.00 ft

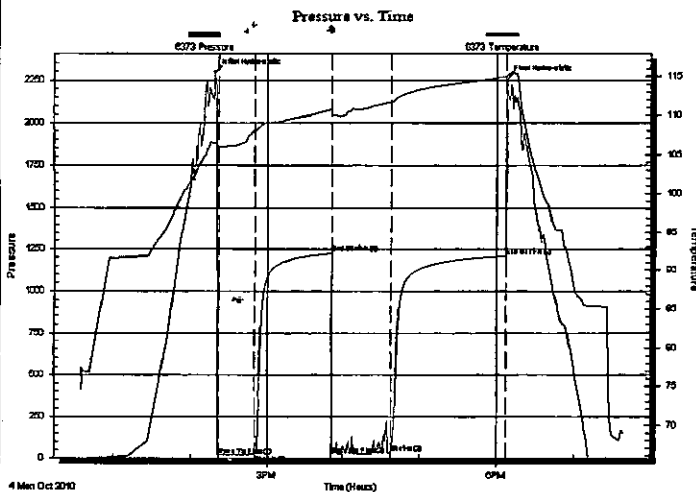
## Serial #: 8373

Inside

Press@RunDepth: ~ 33.92 psig @ 4409.00 ft (KB)  
 Start Date: 2010.10.04 End Date: 2010.10.04  
 Start Time: 12:34:45 End Time: 19:39:39

Capacity: 8000.00 psig  
 Last Calib.: 2010.10.04  
 Time On Btm: 2010.10.04 @ 14:19:10  
 Time Off Btm: 2010.10.04 @ 18:07:24

**TEST COMMENT:** IF: Surface blow built to 1/2 in 30 min.  
 IS: No return.  
 FF: Surface blow built to 1 in 45 min.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2294.55	106.45	Initial Hydro-static
3	18.45	105.96	Open To Flow (1)
32	22.38	107.97	Shut-In(1)
92	1224.40	110.75	End Shut-In(1)
92	23.92	109.97	Open To Flow (2)
138	33.92	111.66	Shut-In(2)
228	1208.67	114.89	End Shut-In(2)
229	2250.88	115.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100% m	0.28

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040251

**DST#: 5**

ATTN: Kim Shoemaker

Test Start: 2010.10.04 @ 12:34:45

## Tool Information

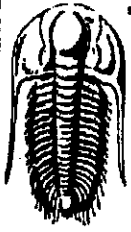
Drill Pipe:	Length: 4410.00 ft	Diameter: 3.80 inches	Volume: 61.86 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4408.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: \*

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4386.00	
Shut In Tool	5.00			4391.00	
Hydraulic tool	5.00			4396.00	
Safety Joint	3.00			4399.00	
Packer	5.00			4404.00	23.00 Bottom Of Top Packer
Packer	4.00			4408.00	
Stubb	1.00			4409.00	
Recorder	0.00	8373	Inside	4409.00	
Recorder	0.00	8289	Outside	4409.00	
Perforations	5.00			4414.00	
Change Over Sub	1.00			4415.00	
Drill Pipe	32.00			4447.00	
Change Over Sub	1.00			4448.00	
Bullnose	5.00			4453.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040251

**DST#: 5**

ATTN: Kim Shoemaker

Test Start: 2010.10.04 @ 12:34:45

## 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.35 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

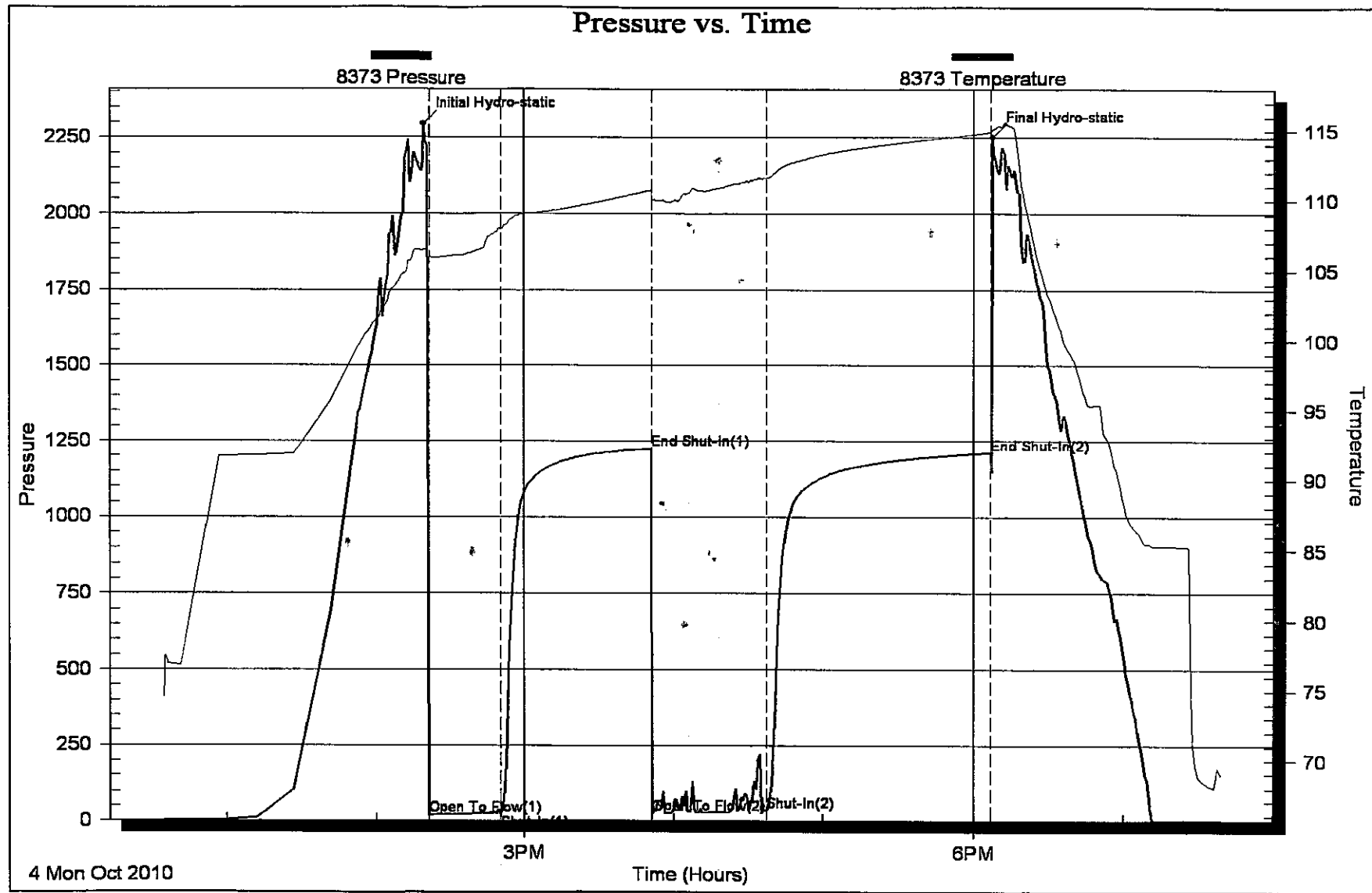
Length ft	Description	Volume bbl
20.00	mud 100%m	0.281

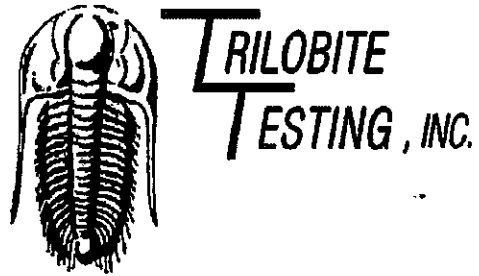
Total Length: 20.00 ft      Total Volume: 0.281 bbl

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 67201

ATTN: Kim Shoemaker

**11-14s-32w Logan,KS**

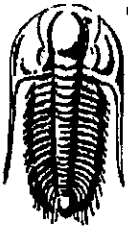
**Bever #1**

Start Date: 2010.10.05 @ 03:34:13

End Date: 2010.10.05 @ 11:10:37

Job Ticket #: 040252      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 Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan,KS**

Job Ticket: 040252

**DST#: 6**

ATTN: Kim Shoemaker

Test Start: 2010.10.05 @ 03:34:13

**GENERAL INFORMATION:**

Formation: **Morrow sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:32:53

Time Test Ended: 11:10:37

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4451.00 ft (KB) To 4511.00 ft (KB) (TVD)**

Reference Elevations: 2825.00 ft (KB)

Total Depth: 4511.00 ft (KB) (TVD)

2820.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8373** Inside

Press@RunDepth: 99.40 psig @ 4452.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.05 End Date: 2010.10.05

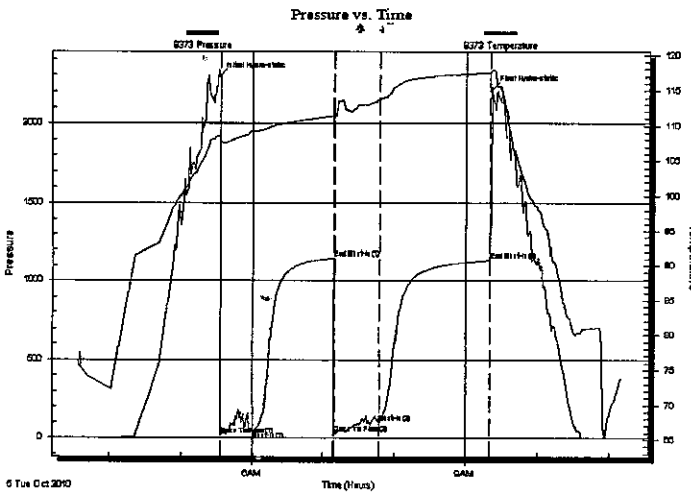
Last Calib.: 2010.10.05

Start Time: 03:34:13 End Time: 11:10:37

Time On Btm: 2010.10.05 @ 05:31:38

Time Off Btm: 2010.10.05 @ 09:21:37

**TEST COMMENT:** IF: Surface blow built to 3 in 30 min.  
IS: No return.  
FF: Surface blow built to 6 in 45 min.  
FS: No return.



**PRESSURE SUMMARY**

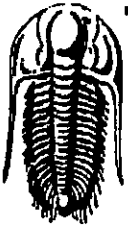
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2294.05	108.48	Initial Hydro-static
2	19.02	107.20	Open To Flow (1)
29	43.36	109.28	Shut-In(1)
97	1148.02	111.46	End Shut-In(1)
98	30.21	111.50	Open To Flow (2)
136	99.40	113.69	Shut-In(2)
229	1132.79	117.56	End Shut-In(2)
230	2213.00	117.93	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
10.00	mud oil spot 100%m	0.14
62.00	gocm 10%g 10%o 80%m	0.87

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040252

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2010.10.05 @ 03:34:13

**Tool Information**

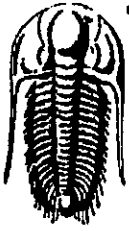
Drill Pipe:	Length: 4446.00 ft	Diameter: 3.80 inches	Volume: 62.37 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<b>Total Volume: 62.37 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4451.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4429.00	
Shut In Tool	5.00			4434.00	
Hydraulic tool	5.00			4439.00	
Safety Joint	3.00			4442.00	
Packer	5.00			4447.00	23.00 Bottom Of Top Packer
Packer	4.00			4451.00	
Stubb	1.00			4452.00	
Recorder	0.00	8373	Inside	4452.00	
Recorder	0.00	8289	Outside	4452.00	
Perforations	20.00			4472.00	
Change Over Sub	1.00			4473.00	
Drill Pipe	32.00			4505.00	
Change Over Sub	1.00			4506.00	
Bullnose	5.00			4511.00	60.00 Bottom Packers & Anchor

**Total Tool Length: 83.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040252

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2010.10.05 @ 03:34:13

## 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: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.36 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 bbf
10.00	mud oil spot 100% <sub>m</sub>	0.140
62.00	gocm 10% <sub>g</sub> 10% <sub>o</sub> 80% <sub>m</sub>	0.870

Total Length: 72.00 ft

Total Volume: 1.010 bbf

Num Fluid Samples: 0

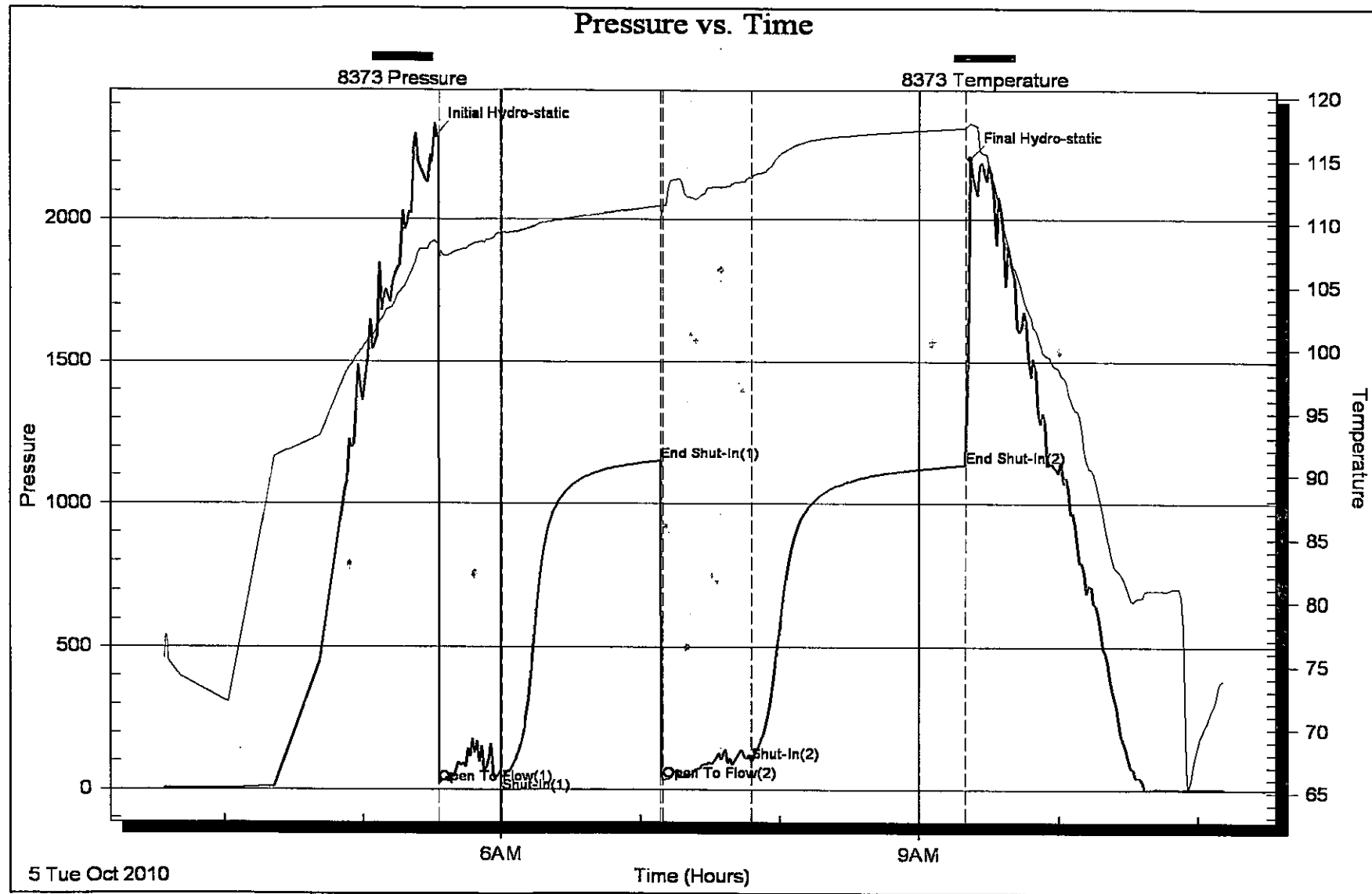
Num Gas Bombs: 0

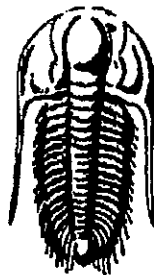
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

P.O. Box 48788  
Wichita, KS 67201

ATTN: Kim Shoemaker

**11-14s-32w Logan,KS**

**Bever #1**

Start Date: 2010.10.05 @ 17:00:25

End Date: 2010.10.06 @ 01:47:50

Job Ticket #: 040253      DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Raymond Oil Company

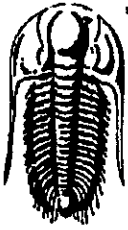
Bever #1

11-14s-32w Logan,KS

DST # 7

Morrow Sand

2010.10.05



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040253

DST#: 7

ATTN: Kim Shoemaker

Test Start: 2010.10.05 @ 17:00:25

**GENERAL INFORMATION:**

Formation: **Morrow Sand**

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

Time Tool Opened: 18:43:35

Time Test Ended: 01:47:50

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4449.00 ft (KB) To 4519.00 ft (KB) (TVD)**

Total Depth: **4519.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2825.00 ft (KB)**

**2820.00 ft (CF)**

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

**Serial #: 8373**

**Inside**

Press@RunDepth: **95.00 psig @ 4450.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.10.05**

End Date:

**2010.10.06**

Last Calib.: **2010.10.06**

Start Time: **17:00:25**

End Time:

**01:47:50**

Time On Btm: **2010.10.05 @ 18:41:35**

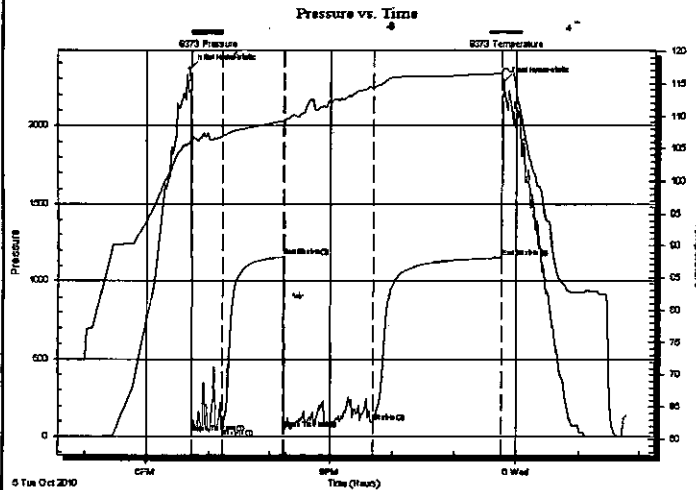
Time Off Btm: **2010.10.05 @ 23:47:19**

**TEST COMMENT:** IF: 1/4 blow built to 4 in 30 min.

IS: No return.

FF: Surface blow BOB in 55 min.

FS: No return.



**PRESSURE SUMMARY**

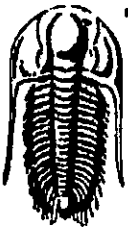
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2365.23	106.00	Initial Hydro-static
2	25.78	105.20	Open To Flow (1)
32	50.02	106.99	Shut-In(1)
92	1159.25	109.27	End Shut-In(1)
93	49.86	109.17	Open To Flow (2)
180	95.00	114.42	Shut-In(2)
304	1154.68	116.57	End Shut-In(2)
306	2286.65	117.32	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
35.00	mud oil spots 100% m	0.49
62.00	gocm 15%g 5%o 80%m	0.87
62.00	gocm 10%g 10%o 80%m	0.87

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040253

**DST#: 7**

ATTN: Kim Shoemaker

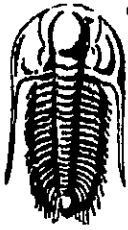
Test Start: 2010.10.05 @ 17:00:25

### Tool Information

Drill Pipe:	Length: 4441.00 ft	Diameter: 3.80 inches	Volume: 62.30 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4449.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4422.00	
Shut In Tool	5.00			4427.00	
Hydraulic tool	5.00			4432.00	
Jars	5.00			4437.00	
Safety Joint	3.00			4440.00	
Packer	5.00			4445.00	28.00 Bottom Of Top Packer
Packer	4.00			4449.00	
Stubb	1.00			4450.00	
Recorder	0.00	8373	Inside	4450.00	
Recorder	0.00	8289	Outside	4450.00	
Perforations	30.00			4480.00	
Change Over Sub	1.00			4481.00	
Drill Pipe	32.00			4513.00	
Change Over Sub	1.00			4514.00	
Bullnose	5.00			4519.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 98.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan,KS**

Job Ticket: 040253

**DST#: 7**

ATTN: Kim Shoemaker

Test Start: 2010.10.05 @ 17:00:25

**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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.36 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
35.00	mud oil spots 100%m	0.491
62.00	gocm 15%g 5%o 80%m	0.870
62.00	gocm 10%g 10%o 80%m	0.870

Total Length: 159.00 ft      Total Volume: 2.231 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

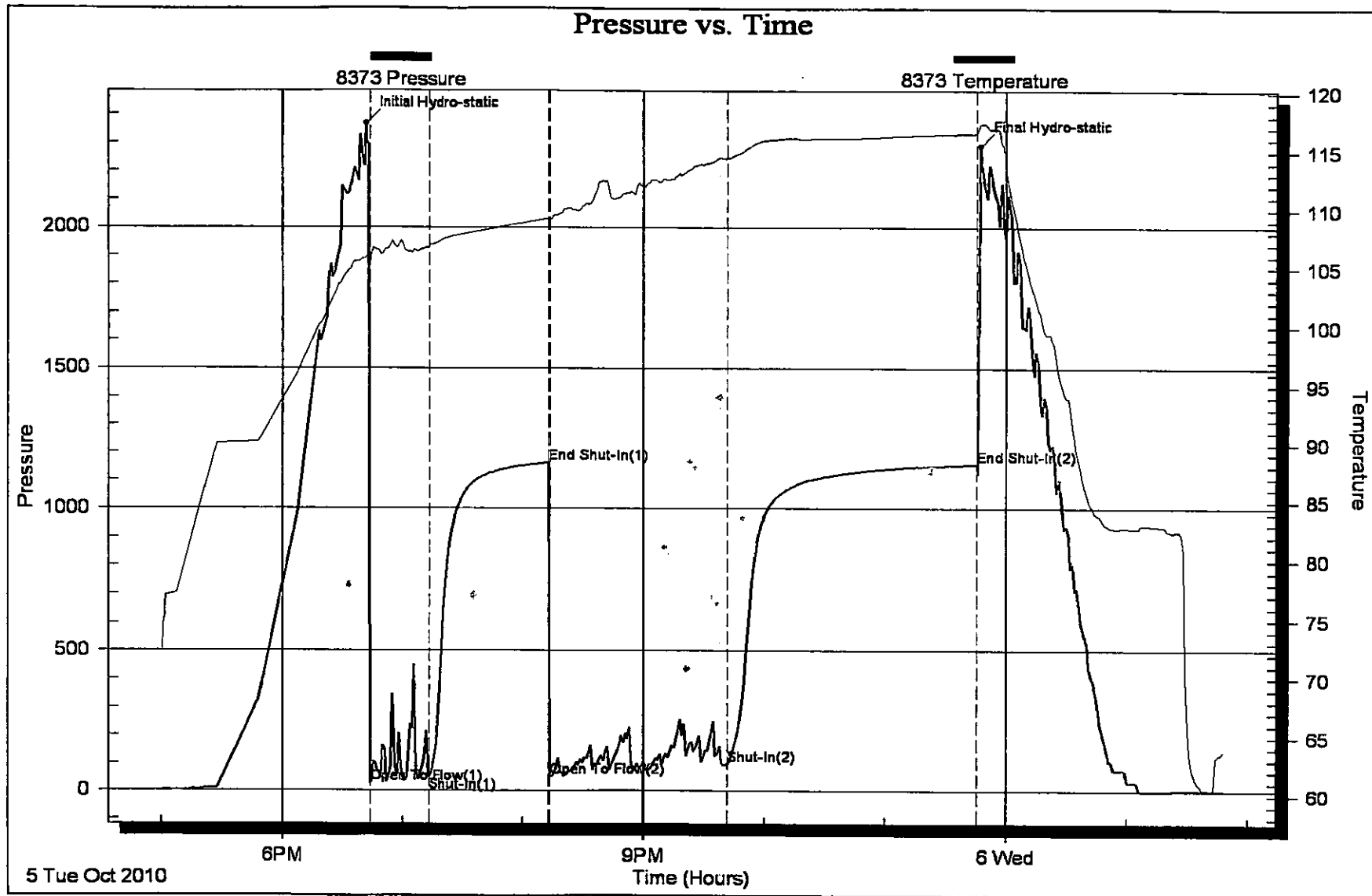
Serial #:

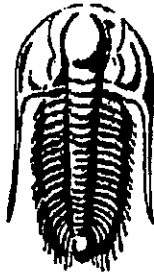
Laboratory Name:

Laboratory Location:

Recovery Comments: Flow s are plugging because mud vis is to hight.

Please E Mail to Kim Shoemaker all test





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Raymond Oil Company**

P.O. Box 48788  
Wichita, KS 67201

ATTN: Kim Shoemaker

**11-14s-32w Logan,KS**

**Bever #1**

Start Date: 2010.10.06 @ 10:44:44

End Date: 2010.10.06 @ 19:01:23

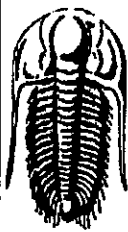
Job Ticket #: 040254      DST #: 8

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

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040254

DST#: 8

ATTN: Kim Shoemaker

Test Start: 2010.10.06 @ 10:44:44

## GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:41:39

Time Test Ended: 19:01:23

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4450.00 ft (KB) To 4540.00 ft (KB) (TVD)**

Reference Elevations: 2825.00 ft (KB)

Total Depth: **4540.00 ft (KB) (TVD)**

2820.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8373**

Inside

Press@RunDepth: 251.05 psig @ 4451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.06

End Date: 2010.10.06

Last Calib.: 2010.10.06

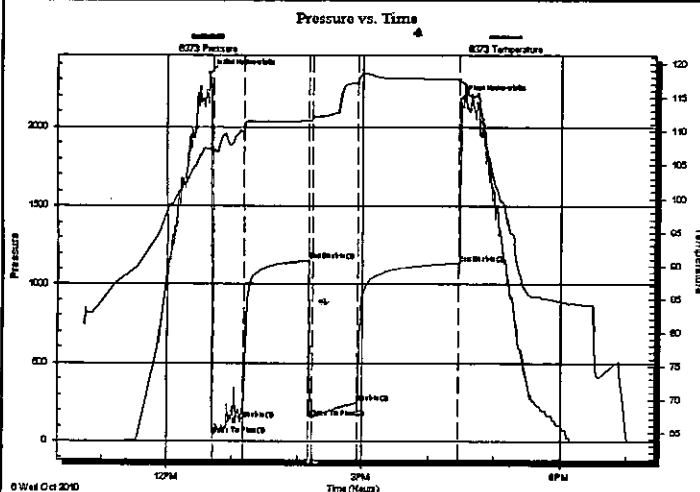
Start Time: 10:44:44

End Time: 19:01:23

Time On Btm: 2010.10.06 @ 12:38:24

Time Off Btm: 2010.10.06 @ 16:29:23

**TEST COMMENT:** IF: 1/4 blow BOB in 11 min.  
IS: Surface blow built to 1/4 died in 30 min.  
FF: 1/4 blow BOB in 13 min.  
FS: Surface blow built to 8 in 90 min.



## PRESSURE SUMMARY

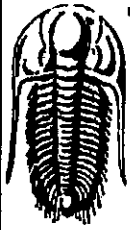
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2339.05	107.42	Initial Hydro-static
4	47.43	106.81	Open To Flow (1)
32	141.60	110.29	Shut-In(1)
92	1152.37	111.61	End Shut-In(1)
95	152.26	111.95	Open To Flow (2)
137	251.05	117.18	Shut-In(2)
230	1138.42	117.72	End Shut-In(2)
231	2178.01	117.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
92.00	mud oil spots 100% m	1.29
248.00	gocm 20%g 5%o 75% m	3.48
62.00	gocm 20%g 10%o 70% m	0.87
124.00	mcgo 10%g 60%o 30% m	1.74
0.00	341 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan, KS**

Job Ticket: 040254

**DST#: 8**

ATTN: Kim Shoemaker

Test Start: 2010.10.06 @ 10:44:44

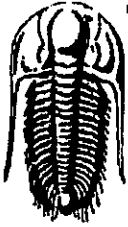
## Tool Information

Drill Pipe:	Length: 4445.00 ft	Diameter: 3.80 inches	Volume: 62.35 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 120000.0 lb
			<b>Total Volume: 62.35 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4450.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4423.00	
Shut In Tool	5.00			4428.00	
Hydraulic tool	5.00			4433.00	
Jars	5.00			4438.00	
Safety Joint	3.00			4441.00	
Packer	5.00			4446.00	28.00 Bottom Of Top Packer
Packer	4.00			4450.00	
Stubb	1.00			4451.00	
Recorder	0.00	8373	Inside	4451.00	
Recorder	0.00	8289	Outside	4451.00	
Perforations	19.00			4470.00	
Change Over Sub	1.00			4471.00	
Drill Pipe	63.00			4534.00	
Change Over Sub	1.00			4535.00	
Bullnose	5.00			4540.00	90.00 Bottom Packers & Anchor

**Total Tool Length: 118.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Company

**Bever #1**

P.O. Box 48788  
Wichita, KS 67201

**11-14s-32w Logan,KS**

Job Ticket: 040254

**DST#: 8**

ATTN: Kim Shoemaker

Test Start: 2010.10.06 @ 10:44:44

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 10.36 in<sup>3</sup>  
Resistivity: .00 ohm.m  
Salinity: 4000.00 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
92.00	mud oil spots 100%m	1.291
248.00	gocm 20%g 5%o 75%m	3.479
62.00	gocm 20%g 10%o 70%m	0.870
124.00	mcgo 10%g 60%o 30%m	1.739
0.00	341 GIP	0.000

Total Length: 526.00 ft      Total Volume: 7.379 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial#:

Laboratory Name:

Laboratory Location:

Recovery Comments: 33@80=31

