

15-007-22854

Raymond Oil Co.Inc.

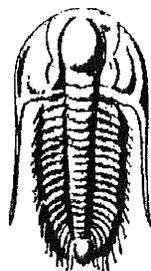
Dugan Trust B#1

6-32s-13w Barber Ks.

DST # 1

Lecompton

2004.10.19



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

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

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**6-32s-13w Barber Ks.**

**Dugan Trust B#1**

Start Date: 2004.10.19 @ 06:42:11

End Date: 2004.10.19 @ 15:09:11

Job Ticket #: 19258                      DST #: 1

15-007-22854

NE NW SE

2400 FSL 1745 FEL

RECEIVED  
DEC 10 2004  
KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Raymond Oil Co.Inc.

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**Dugan Trust B#1**

**6-32s-13w Barber Ks.**

Job Ticket: 19258

**DST#: 1**

Test Start: 2004.10.19 @ 06:42:11

**GENERAL INFORMATION:**

Formation: **Lecompton**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:26:56  
Time Test Ended: 15:09:11

Test Type: Conventional Bottom Hole  
Tester: Gary Pevoteaux  
Unit No: 23

Interval: **3551.00 ft (KB) To 3593.00 ft (KB) (TVD)**  
Total Depth: 3593.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1753.00 ft (KB)  
1742.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6755**

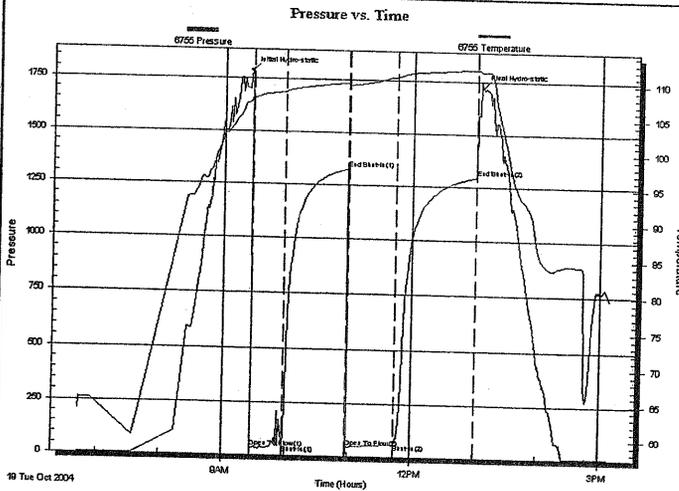
**Inside**

Press@RunDepth: 59.92 psig @ 3552.00 ft (KB)  
Start Date: 2004.10.19 End Date:  
Start Time: 06:42:16 End Time:

2004.10.19  
15:09:10

Capacity: 7000.00 psig  
Last Calib.: 2004.10.19  
Time On Btm: 2004.10.19 @ 09:24:56  
Time Off Btm: 2004.10.19 @ 13:05:56

**TEST COMMENT:** IF:Weak blow . Slow increase to 3".  
IS:No blow .  
FF:Weak blow . 1/4" or less.  
FS:No blow .



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1786.88	107.34	Initial Hydro-static
2	34.00	107.47	Open To Flow (1)
32	47.28	108.54	Shut-In(1)
93	1324.31	109.89	End Shut-In(1)
94	45.36	109.60	Open To Flow (2)
139	59.92	110.86	Shut-In(2)
216	1294.14	112.01	End Shut-In(2)
221	1721.00	111.71	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
70.00	Mud with a few oil specs.	0.98

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Co.Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19258      **DST#: 1**

ATTN: Clarke Sandberg

Test Start: 2004.10.19 @ 06:42:11

### Tool Information

Drill Pipe:	Length: 3541.00 ft	Diameter: 3.80 inches	Volume: 49.67 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 49.67 bbl</u>	Tool Chased 24.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3551.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:  
Slid tool 22 ft. to btm.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3525.00	
Shut In Tool	5.00			3530.00	
Hydraulic tool	5.00			3535.00	
Jars	5.00			3540.00	
Safety Joint	2.00			3542.00	
Packer	4.00			3546.00	27.00      Bottom Of Top Packer
Packer	5.00			3551.00	
Stubb	1.00			3552.00	
Recorder	0.00	6755	Inside	3552.00	
Perforations	36.00			3588.00	
Recorder	0.00	13222	Outside	3588.00	
Bullnose	5.00			3593.00	42.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>69.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co.Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19258

**DST#: 1**

ATTN: Clarke Sandberg

Test Start: 2004.10.19 @ 06:42:11

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 12.35 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 5000 ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
70.00	Mud with a few oil specs.	0.982

Total Length: 70.00 ft      Total Volume: 0.982 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

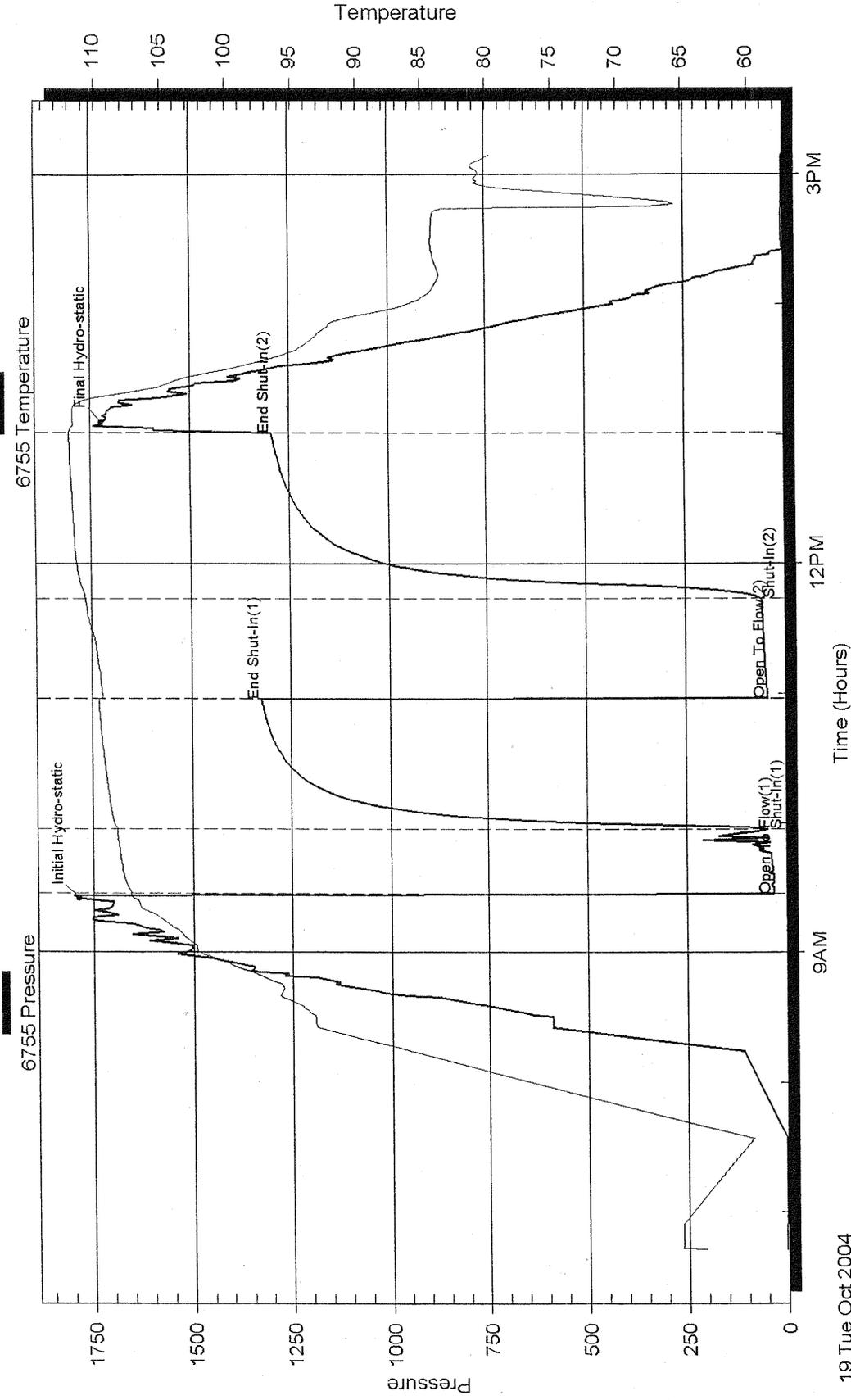
Serial #: none

Laboratory Name:

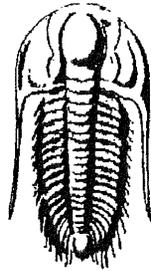
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



19 Tue Oct 2004



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

## DRILL STEM TEST REPORT

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

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**6-32s-13w Barber Ks.**

**Dugan Trust B#1**

Start Date: 2004.10.20 @ 15:22:16

End Date: 2004.10.20 @ 23:06:16

Job Ticket #: 19259                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Raymond Oil Co.Inc.

Dugan Trust B#1

6-32s-13w Barber Ks.

DST # 2

Lwr.Douglas

2004.10.20



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks. 67201

**6-32s-13w Barber Ks.**

ATTN: Clarke Sandberg

Job Ticket: 19259 **DST#: 2**

Test Start: 2004.10.20 @ 15:22:16

## GENERAL INFORMATION:

Formation: **Lwr. Douglas**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:38:01  
 Time Test Ended: 23:06:16

Test Type: Conventional Bottom Hole  
 Tester: Gary Pevoteaux  
 Unit No: 23

Interval: **3884.00 ft (KB) To 3908.00 ft (KB) (TVD)**  
 Total Depth: 3908.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1753.00 ft (KB)  
 1742.00 ft (CF)  
 KB to GRV/CF: 11.00 ft

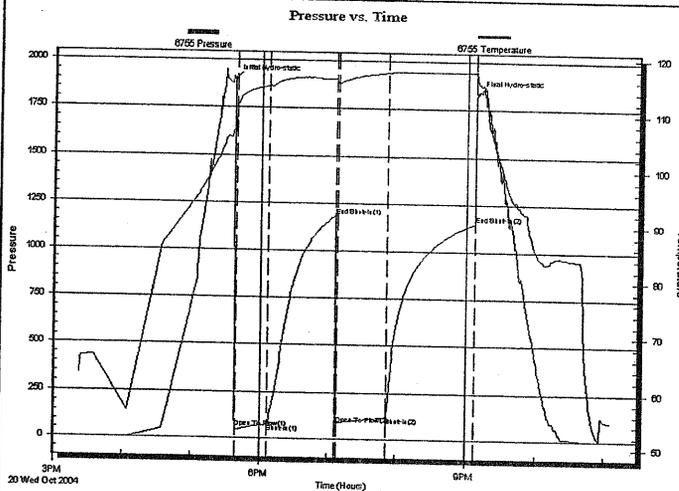
## Serial #: 6755

Inside

Press@RunDepth: 120.78 psig @ 3885.00 ft (KB)  
 Start Date: 2004.10.20 End Date: 2004.10.20  
 Start Time: 15:22:21 End Time: 23:06:15

Capacity: 7000.00 psig  
 Last Calib.: 2004.10.20  
 Time On Btm: 2004.10.20 @ 17:36:31  
 Time Off Btm: 2004.10.20 @ 21:09:31

TEST COMMENT: IF: Strong blow . B.O.B. in 50 secs.  
 IS: Weak blow . 1/2 - 2 1/2".  
 FF: Strong blow . B.O.B. in 40 secs.  
 FS: Weak blow . 1/2 - 1" GTS 5 mins. in to FSIP.



## PRESSURE SUMMARY

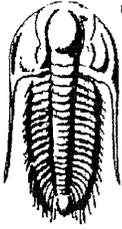
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.10	106.85	Initial Hydro-static
2	56.45	111.16	Open To Flow (1)
31	76.69	114.84	Shut-In (1)
91	1186.41	116.10	End Shut-In (1)
92	84.60	115.25	Open To Flow (2)
135	120.78	117.32	Shut-In (2)
211	1149.53	117.57	End Shut-In (2)
213	1830.44	115.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	SOCMW 1%o 6% m 93% w /Rw .099 ohms 1.75:1 deg	1.75
125.00	GCM w ith oil specs 20%g 80% m	1.75
20.00	GOCWM 20%g 4% o 12% w 64% m	0.28
0.00	Clean oil @ top of tool	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.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19259

**DST#: 2**

ATTN: Clarke Sandberg

Test Start: 2004.10.20 @ 15:22:16

**Tool Information**

Drill Pipe:	Length: 3889.00 ft	Diameter: 3.80 inches	Volume: 54.55 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: 54.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3884.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	46.00 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			3863.00	
Shut In Tool	5.00			3868.00	
Hydraulic tool	5.00			3873.00	
Safety Joint	2.00			3875.00	
Packer	4.00			3879.00	22.00 Bottom Of Top Packer
Packer	5.00			3884.00	
Stubb	1.00			3885.00	
Recorder	0.00	6755	Inside	3885.00	
Perforations	18.00			3903.00	
Recorder	0.00	13222	Outside	3903.00	
Bullnose	5.00			3908.00	24.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil Co.Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19259

**DST#: 2**

ATTN: Clarke Sandberg

Test Start: 2004.10.20 @ 15:22:16

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 122000 ppm	
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.56 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	SOCMW 1%o 6%m 93%w /Rw .099 ohms @:	1.753
125.00	GCM with oil specs 20%g 80%m	1.753
20.00	GOCWM 20%g 4%o 12%w 64%m	0.281
0.00	Clean oil @ top of tool	0.000

Total Length: 270.00 ft      Total Volume: 3.787 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6755

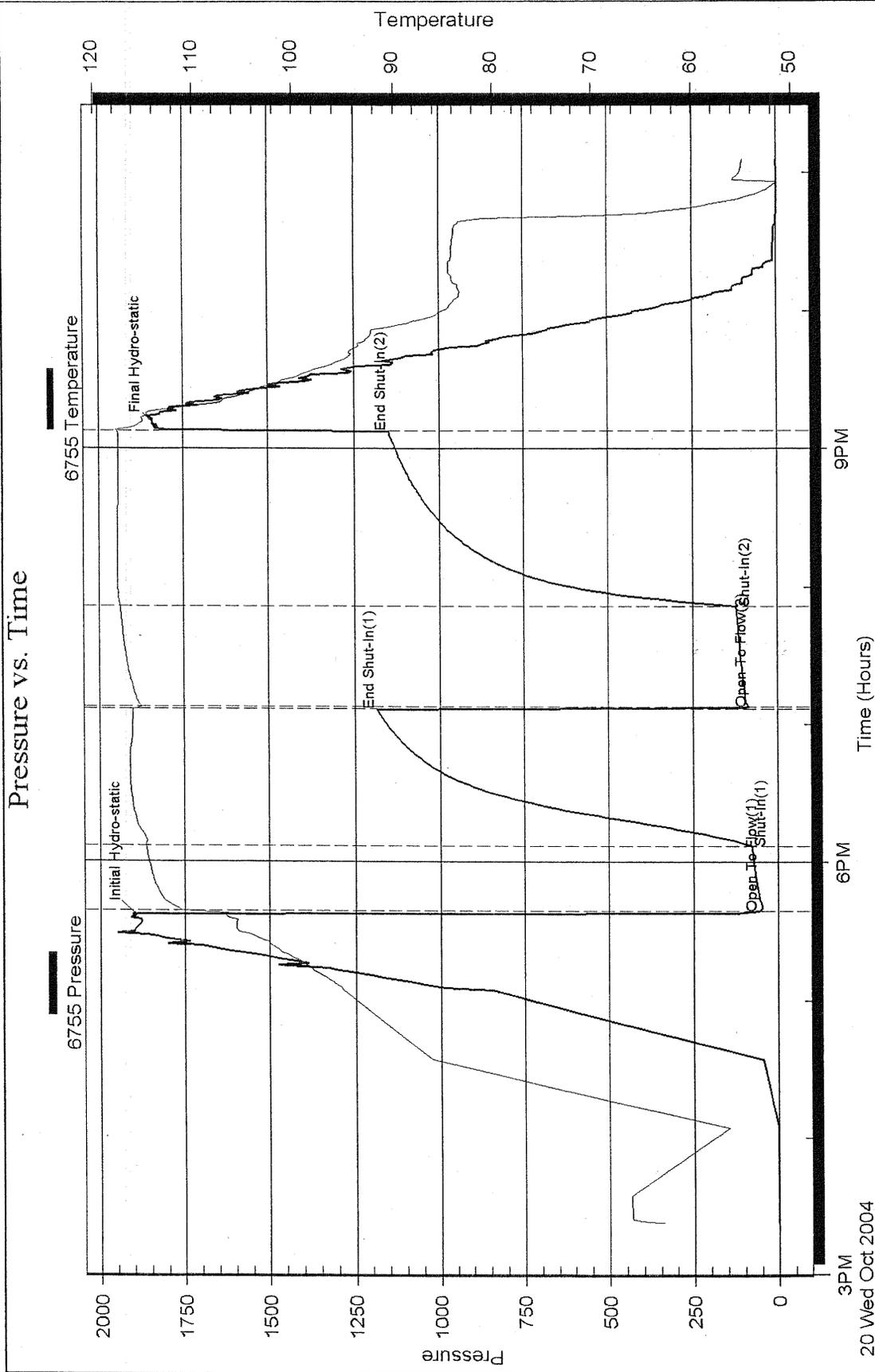
Inside

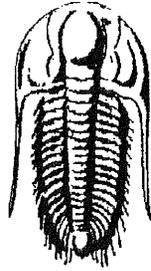
Raymond Oil Co. Inc.

6-32s-13w Barber Ks.

DST Test Number: 2

### Pressure vs. Time





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

## DRILL STEM TEST REPORT

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

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**6-32s-13w Barber Ks.**

**Dugan Trust B#1**

Start Date: 2004.10.21 @ 08:49:39

End Date: 2004.10.21 @ 17:09:24

Job Ticket #: 19260                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Raymond Oil Co.Inc.

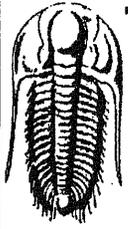
Dugan Trust B#1

6-32s-13w Barber Ks.

DST # 3

Lans 35'

2004.10.21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

ATTN: Clarke Sandberg

Job Ticket: 19260

**DST#: 3**

Test Start: 2004.10.21 @ 08:49:39

## GENERAL INFORMATION:

Formation: **Lans 35'**  
Deviated: **No Whipstock:** ft (KB)  
Time Tool Opened: 11:19:09  
Time Test Ended: 17:09:24

Test Type: Conventional Bottom Hole  
Tester: Gary Pevoteaux  
Unit No: 23

Interval: **3974.00 ft (KB) To 3992.00 ft (KB) (TVD)**  
Total Depth: 3992.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1753.00 ft (KB)  
1742.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6755**

**Inside**

Press@RunDepth: 152.60 psig @ 3975.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.10.21

End Date:

2004.10.21

Last Calib.: 2004.10.21

Start Time: 08:49:44

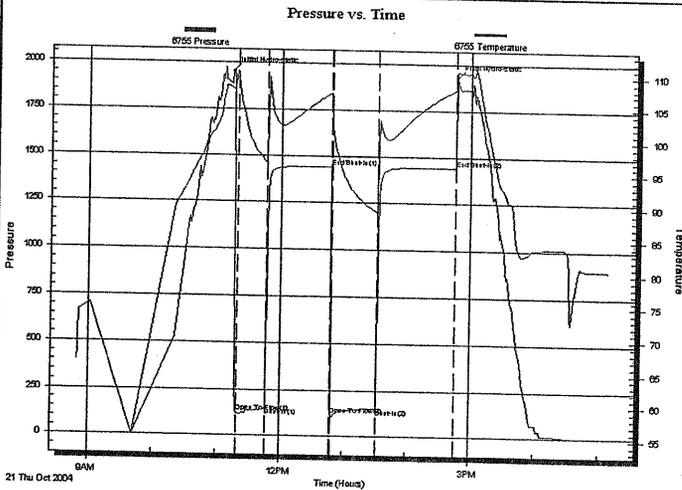
End Time:

17:09:23

Time On Btm: 2004.10.21 @ 11:14:24

Time Off Btm: 2004.10.21 @ 14:46:39

**TEST COMMENT:** IF: Strong blow . B.O.B. in 5 secs. GTS in 4.5 mins. (see gas volume report)  
IS: No blow .  
FF: Strong blow . (see gas volume report)  
FS: No blow .



## PRESSURE SUMMARY

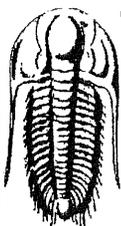
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.43	107.98	Initial Hydro-static
5	123.79	109.82	Open To Flow (1)
33	148.74	96.55	Shut-In (1)
93	1442.26	107.36	End Shut-In (1)
95	115.13	101.97	Open To Flow (2)
137	152.60	89.20	Shut-In (2)
211	1442.28	107.95	End Shut-In (2)
213	1931.45	110.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Clean oil	0.21
150.00	GOCM 18%g 18%o 64%m	2.10

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	40.00	366.97
Last Gas Rate	0.50	59.00	495.13
Max. Gas Rate	0.50	60.00	501.88



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Co.Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19260

**DST#: 3**

ATTN: Clarke Sandberg

Test Start: 2004.10.21 @ 08:49:39

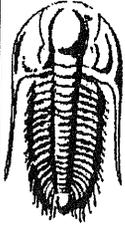
### Tool Information

Drill Pipe:	Length: 3985.00 ft	Diameter: 3.80 inches	Volume: 55.90 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 55.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3974.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	40.00 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			3953.00	
Shut In Tool	5.00			3958.00	
Hydraulic tool	5.00			3963.00	
Safety Joint	2.00			3965.00	
Packer	4.00			3969.00	22.00 Bottom Of Top Packer
Packer	5.00			3974.00	
Stubb	1.00			3975.00	
Recorder	0.00	6755	Inside	3975.00	
Perforations	12.00			3987.00	
Recorder	0.00	13222	Outside	3987.00	
Bullnose	5.00			3992.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co.Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19260

**DST#: 3**

ATTN: Clarke Sandberg

Test Start: 2004.10.21 @ 08:49:39

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 9.57 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

37 deg API

6000 ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
15.00	Clean oil	0.210
150.00	GOCM 18%g 18%o 64%m	2.104

Total Length: 165.00 ft

Total Volume: 2.314 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-3

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19260      DST#: 3

ATTN: Clarke Sandberg

Test Start: 2004.10.21 @ 08:49:39

### Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.50	40.00	366.97
1	20	0.50	49.00	427.68
1	30	0.50	54.00	461.41
2	10	0.50	46.00	407.44
2	20	0.50	54.00	461.41
2	30	0.50	60.00	501.88
2	40	0.50	59.00	495.13
2	45	0.50	59.00	495.13

Serial #: 6755

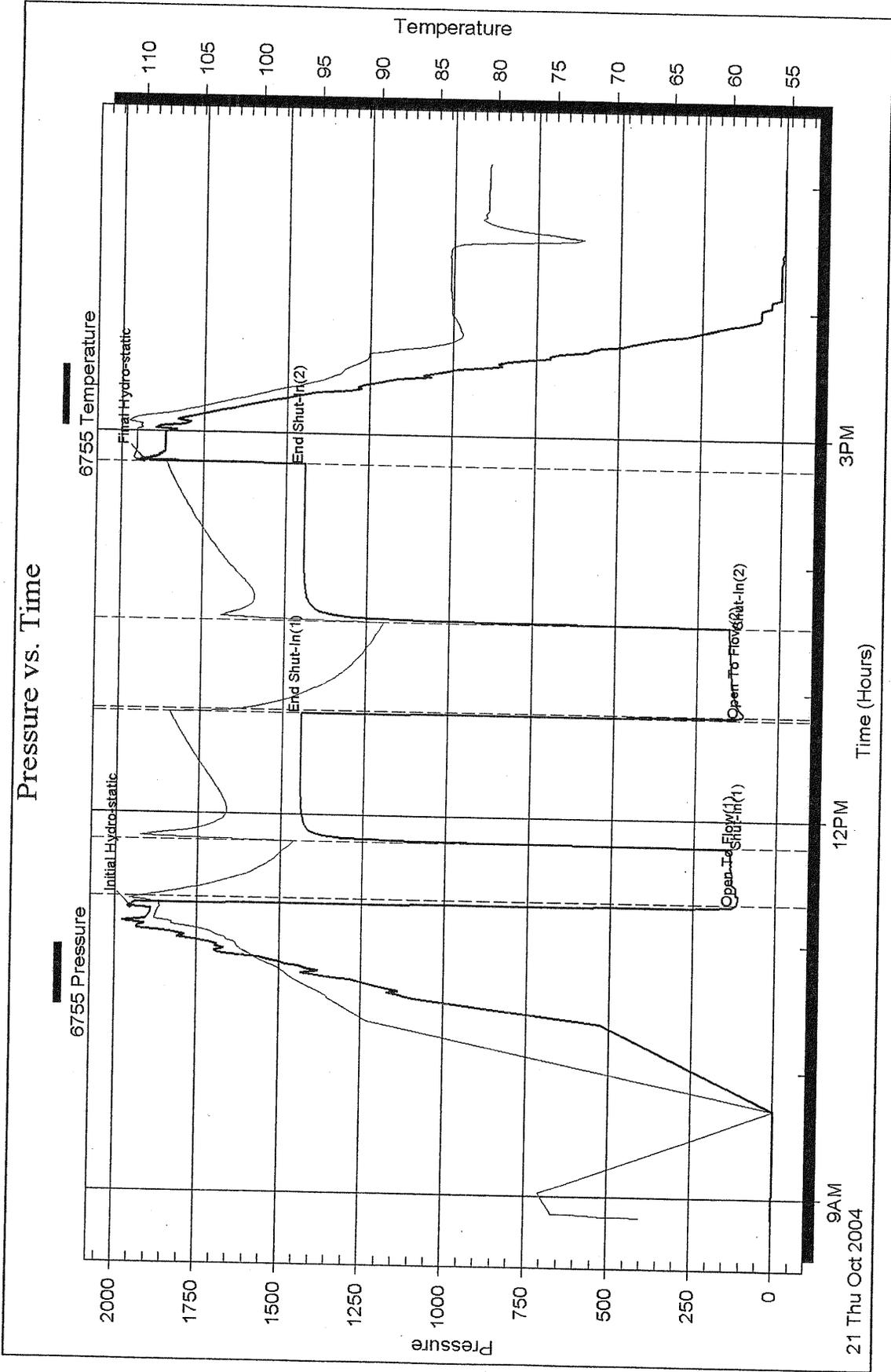
Inside

Raymond Oil Co. Inc.

6-32s-13w Barber Ks.

DST Test Number: 3

### Pressure vs. Time





## DRILL STEM TEST REPORT

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

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**6-32s-13w Barber Ks.**

**Dugan Trust B#1**

Start Date: 2004.10.22 @ 06:21:09

End Date: 2004.10.22 @ 14:51:09

Job Ticket #: 19261                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Raymond Oil Co.Inc.

Dugan Trust B#1

6-32s-13w Barber Ks.

DST # 4

Lans. H

2004.10.22



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raymond Oil Co. Inc.

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**Dugan Trust B#1**

**6-32s-13w Barber Ks.**

Job Ticket: 19261

DST#: 4

Test Start: 2004.10.22 @ 06:21:09

## GENERAL INFORMATION:

Formation: **Lans. H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:47:39

Time Test Ended: 14:51:09

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4150.00 ft (KB) To 4165.00 ft (KB) (TVD)**

Total Depth: 4165.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1753.00 ft (KB)

1742.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6755**

Inside

Press@RunDepth: 34.15 psig @ 4151.00 ft (KB)

Start Date: 2004.10.22

End Date:

2004.10.22

Capacity: 7000.00 psig

Last Calib.: 2004.10.22

Start Time: 06:21:14

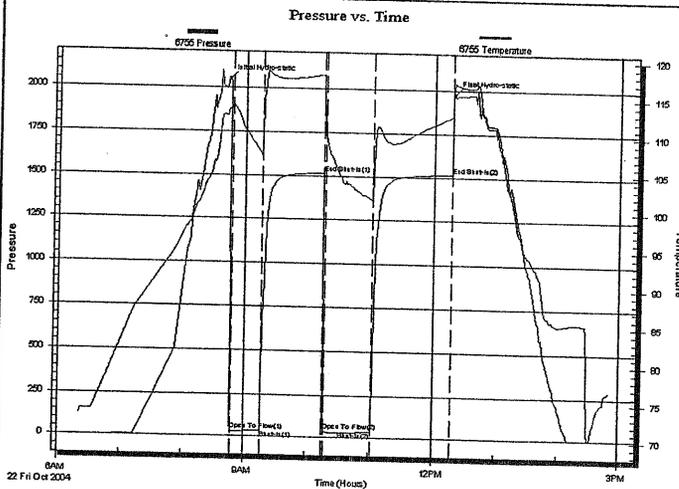
End Time:

14:51:08

Time On Btm: 2004.10.22 @ 08:44:24

Time Off Btm: 2004.10.22 @ 12:18:54

TEST COMMENT: IF:Strong blow . B.O.B. in 6 secs. GTS in 8 mins.(see gas volume report)  
IS:No blow .  
FF:Strong blow . (see gas volume report)  
FSI:No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2051.57	113.31	Initial Hydro-static
4	33.15	114.06	Open To Flow (1)
32	37.38	107.27	Shut-In(1)
91	1516.74	117.90	End Shut-In(1)
93	38.24	110.15	Open To Flow (2)
138	34.15	101.41	Shut-In(2)
213	1516.29	112.61	End Shut-In(2)
215	1976.81	116.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	G&OC,WM 26%g 24%o 22%w 28%m	0.63

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	4.00	67.40
Last Gas Rate	0.38	10.00	89.38
Max. Gas Rate	0.38	13.00	100.37



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19261      **DST#: 4**

ATTN: Clarke Sandberg

Test Start: 2004.10.22 @ 06:21:09

**Tool Information**

Drill Pipe:	Length: 4143.00 ft	Diameter: 3.80 inches	Volume: 58.12 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume:</u> 58.12 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4150.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	37.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4129.00	
Shut In Tool	5.00			4134.00	
Hydraulic tool	5.00			4139.00	
Safety Joint	2.00			4141.00	
Packer	4.00			4145.00	22.00      Bottom Of Top Packer
Packer	5.00			4150.00	
Stubb	1.00			4151.00	
Recorder	0.00	6755	Inside	4151.00	
Perforations	9.00			4160.00	
Recorder	0.00	13222	Outside	4160.00	
Bullnose	5.00			4165.00	15.00      Bottom Packers & Anchor

**Total Tool Length: 37.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co.Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19261

**DST#:4**

ATTN: Clarke Sandberg

Test Start: 2004.10.22 @ 06:21:09

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 9.57 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft  
bbl

psig

Oil API:

Water Salinity:

deg API  
ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
45.00	G&OC,WM 26%g 24%o 22%w 28%m	0.631

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

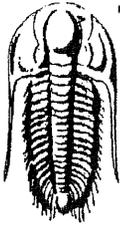
Num Gas Bombs: 1

Serial #: gp-4

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: No Rw check. Water was salty



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19261

**DST#: 4**

ATTN: Clarke Sandberg

Test Start: 2004.10.22 @ 06:21:09

### Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.38	4.00	67.40
1	10	0.38	4.00	67.40
1	20	0.38	7.00	78.39
1	30	0.38	8.00	82.06
2	10	0.38	13.00	100.37
2	20	0.38	11.00	93.05
2	30	0.38	10.00	89.38

Serial #: 6755

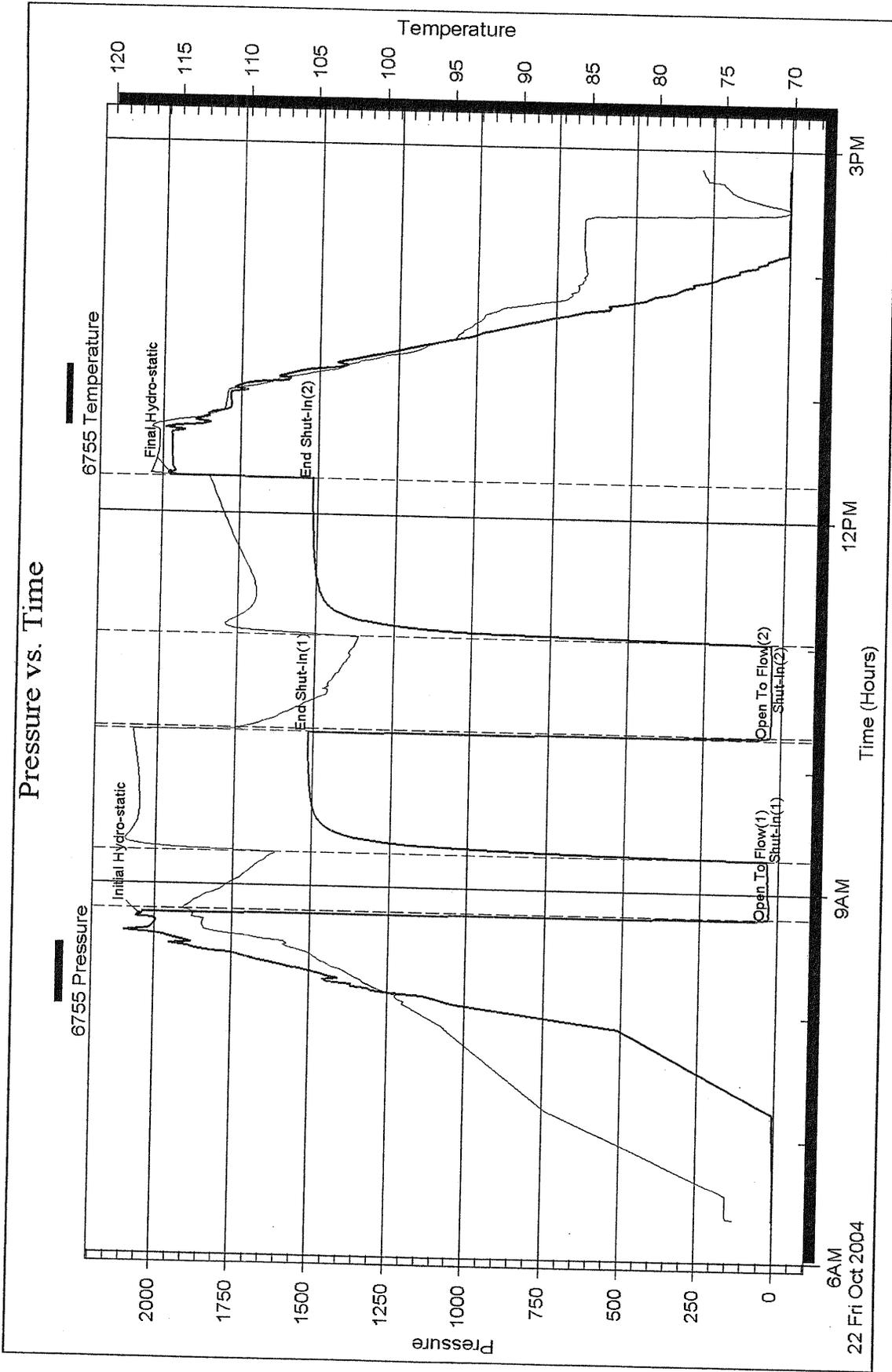
Inside

Raymond Oil Co. Inc.

6-32s-13w Barber Ks.

DST Test Number: 4

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 19261



## DRILL STEM TEST REPORT

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

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**6-32s-13w Barber Ks.**

**Dugan Trust B#1**

Start Date: 2004.10.23 @ 00:37:57

End Date: 2004.10.23 @ 08:56:12

Job Ticket #: 19262                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Raymond Oil Co.Inc.

Dugan Trust B#1

6-32s-13w Barber Ks.

DST # 5

Lans. 180'

2004.10.23



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Raymond Oil Co. Inc.

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**Dugan Trust B#1**

**6-32s-13w Barber Ks.**

Job Ticket: 19262

DST#: 5

Test Start: 2004.10.23 @ 00:37:57

## GENERAL INFORMATION:

Formation: **Lans. 180'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:01:42

Time Test Ended: 08:56:12

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4219.00 ft (KB) To 4237.00 ft (KB) (TVD)**

Total Depth: 4237.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1753.00 ft (KB)

1742.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6755**

Inside

Press@RunDepth: 163.10 psig @ 4220.00 ft (KB)

Start Date: 2004.10.23

End Date:

2004.10.23

Start Time: 00:38:02

End Time:

08:56:11

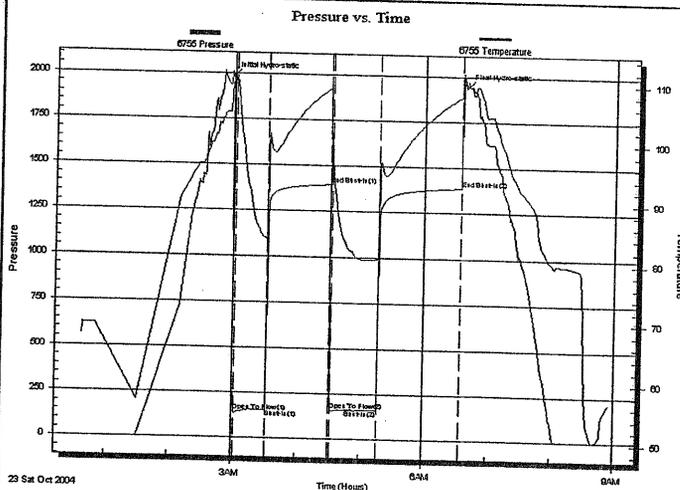
Capacity: 7000.00 psig

Last Calib.: 2004.10.23

Time On Btm: 2004.10.23 @ 02:58:57

Time Off Btm: 2004.10.23 @ 06:38:57

TEST COMMENT: IF:Strong blow . GTS in 3 mins. (see gas volume report)  
IS:No blow .  
FF:Strong blow . (see gas volume report)  
FS:No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1980.34	109.92	Initial Hydro-static
3	146.39	110.87	Open To Flow (1)
33	159.81	83.65	Shut-In(1)
93	1395.92	109.18	End Shut-In(1)
94	162.96	97.11	Open To Flow (2)
138	163.10	80.67	Shut-In(2)
216	1385.11	107.91	End Shut-In(2)
220	1942.23	110.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	Drig.mud	1.33

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	31.00	709.14
Last Gas Rate	0.75	41.00	865.34
Max. Gas Rate	0.75	41.00	865.34



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks. 67201

**6-32s-13w Barber Ks.**

Job Ticket: 19262

**DST#: 5**

ATTN: Clarke Sandberg

Test Start: 2004.10.23 @ 00:37:57

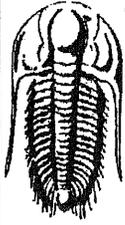
**Tool Information**

Drill Pipe:	Length: 4205.00 ft	Diameter: 3.80 inches	Volume: 58.99 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 58.99 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4219.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:  
Slid tool 8 ft. to btm.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4198.00	
Shut In Tool	5.00			4203.00	
Hydraulic tool	5.00			4208.00	
Safety Joint	2.00			4210.00	
Packer	4.00			4214.00	22.00 Bottom Of Top Packer
Packer	5.00			4219.00	
Stubb	1.00			4220.00	
Recorder	0.00	6755	Inside	4220.00	
Perforations	12.00			4232.00	
Recorder	0.00	13222	Outside	4232.00	
Bullnose	5.00			4237.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil Co.Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19262

**DST#: 5**

ATTN: Clarke Sandberg

Test Start: 2004.10.23 @ 00:37:57

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 7.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 9.58 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

5000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	Drlg.mud	1.333

Total Length: 95.00 ft

Total Volume: 1.333 bbl

Num Fluid Samples: 0

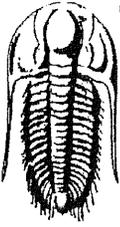
Num Gas Bombs: 1

Serial #: gp-5

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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

## DRILL STEM TEST REPORT

**GAS RATES**

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19262

**DST#: 5**

ATTN: Clarke Sandberg

Test Start: 2004.10.23 @ 00:37:57

### Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.75	31.00	709.14
1	20	0.75	37.00	802.86
1	30	0.75	39.00	834.10
2	10	0.75	41.00	865.34
2	20	0.75	41.00	865.34
2	45	0.75	41.00	865.34

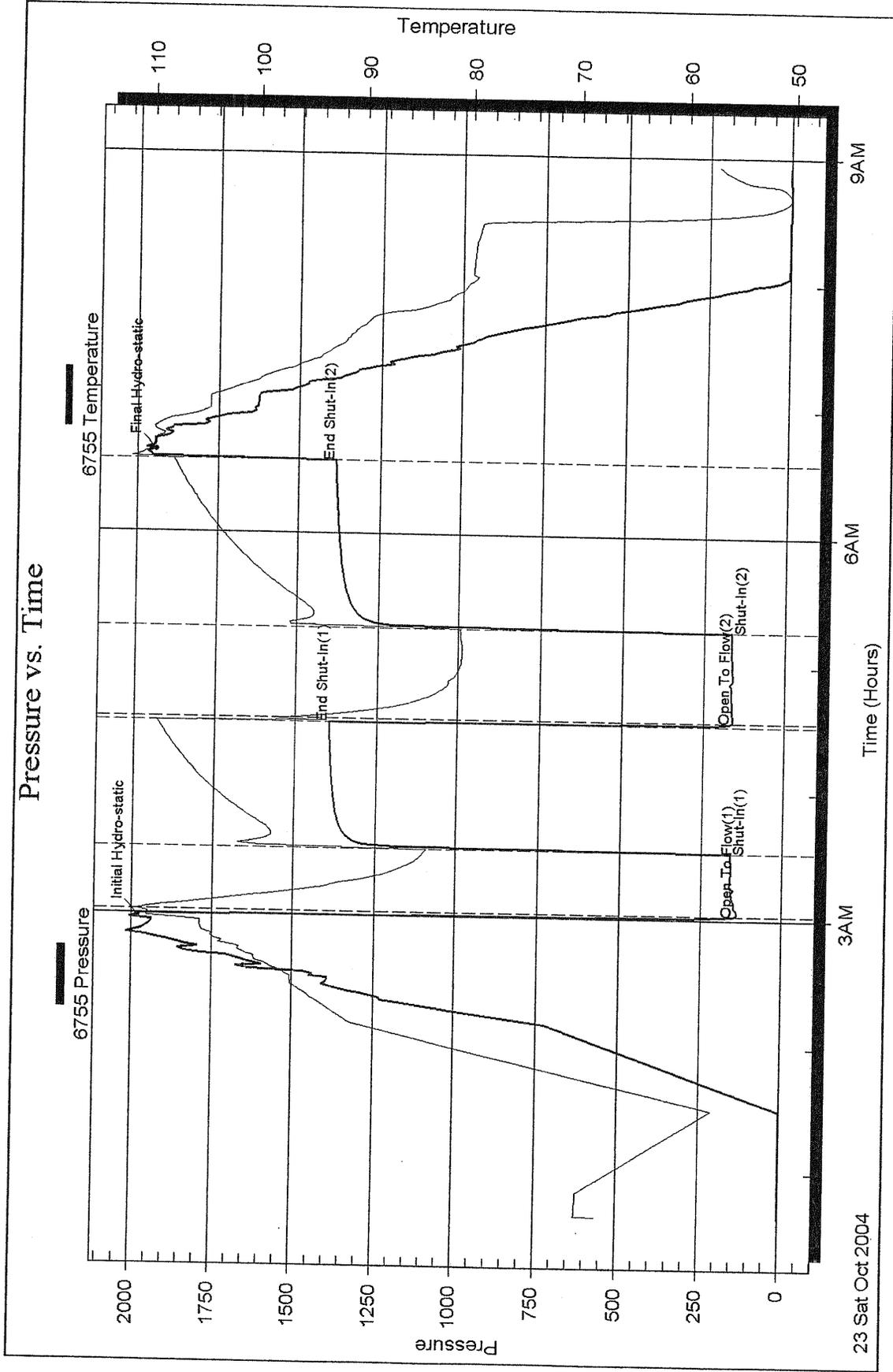
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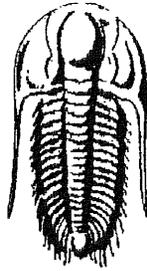
Inside

Raymond Oil Co. Inc.

6-32s-13w Barber Ks.

DST Test Number: 5





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

## DRILL STEM TEST REPORT

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

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**6-32s-13w Barber Ks.**

**Dugan Trust B#1**

Start Date: 2004.10.23 @ 16:03:17

End Date: 2004.10.23 @ 23:09:32

Job Ticket #: 19263                      DST #: 6

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

Raymond Oil Co.Inc.

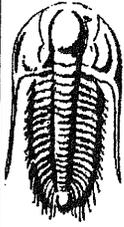
Dugan Trust B#1

6-32s-13w Barber Ks.

DST # 6

Lans 200"

2004.10.23



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

ATTN: Clarke Sandberg

Job Ticket: 19263

DST#: 6

Test Start: 2004.10.23 @ 16:03:17

## GENERAL INFORMATION:

Formation: **Lans 200"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 17:45:32  
Time Test Ended: 23:09:32

Test Type: Conventional Bottom Hole  
Tester: Gary Pevoteaux  
Unit No: 23

Interval: **4249.00 ft (KB) To 4267.00 ft (KB) (TVD)**  
Total Depth: 4267.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1753.00 ft (KB)  
1742.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6755**

Inside

Press@RunDepth: 215.31 psig @ 4250.00 ft (KB)

Start Date: 2004.10.23

End Date:

2004.10.23

Start Time: 16:03:22

End Time:

23:09:31

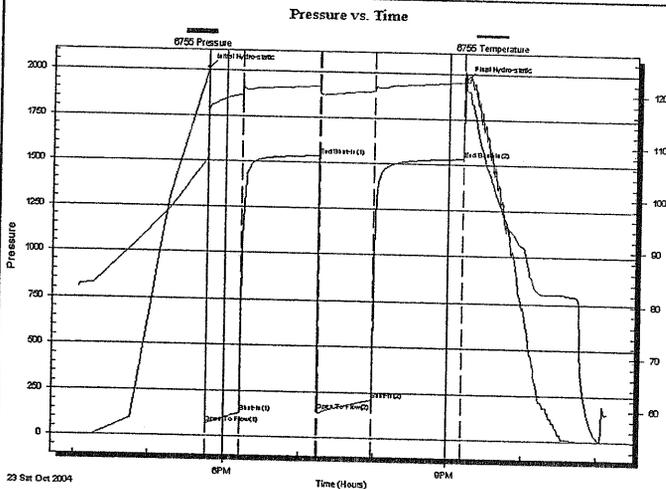
Capacity: 7000.00 psig

Last Callb.: 2004.10.23

Time On Btm: 2004.10.23 @ 17:45:17

Time Off Btm: 2004.10.23 @ 21:13:32

**TEST COMMENT:** IF: Strong blow . GTS in 6 mins. (see gas volume report)  
IS: Weak blow . 1 - 2".  
FF: Strong blow . (see gas volume report)  
FSI: Weak blow . 1".



## PRESSURE SUMMARY

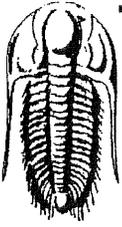
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.77	106.98	Initial Hydro-static
1	70.05	116.41	Open To Flow (1)
28	134.15	119.35	Shut-In(1)
89	1534.13	121.30	End Shut-In(1)
90	145.81	119.73	Open To Flow (2)
134	215.31	120.32	Shut-In(2)
207	1529.13	122.45	End Shut-In(2)
209	1969.94	120.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
320.00	SW Rw .085 ohms @ 55 deg.	4.49
100.00	GCMW 15%g 15% m 70%w	1.40

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	9.00	157.85
Last Gas Rate	0.50	19.00	225.31
Max. Gas Rate	0.50	19.00	225.31



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19263

**DST#: 6**

ATTN: Clarke Sandberg

Test Start: 2004.10.23 @ 16:03:17

**Tool Information**

Drill Pipe:	Length: 4237.00 ft	Diameter: 3.80 inches	Volume: 59.43 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 71000.00 lb
			<u>Total Volume: 59.43 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4249.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	40.00 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			4228.00	
Shut In Tool	5.00			4233.00	
Hydraulic tool	5.00			4238.00	
Safety Joint	2.00			4240.00	
Packer	4.00			4244.00	22.00 Bottom Of Top Packer
Packer	5.00			4249.00	
Stubb	1.00			4250.00	
Recorder	0.00	6755	Inside	4250.00	
Perforations	12.00			4262.00	
Recorder	0.00	13222	Outside	4262.00	
Bullnose	5.00			4267.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co.Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19263

DST#: 6

ATTN: Clarke Sandberg

Test Start: 2004.10.23 @ 16:03:17

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 9.59 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

125000 ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
320.00	SW Rw .085 ohms @ 55 deg.	4.489
100.00	GCMW 15%g 15% m 70%w	1.403

Total Length: 420.00 ft

Total Volume: 5.892 bbl

Num Fluid Samples: 0

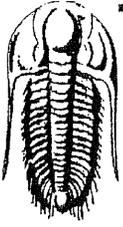
Num Gas Bombs: 1

Serial #: gp-6

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19263                      **DST#: 6**

ATTN: Clarke Sandberg

Test Start: 2004.10.23 @ 16:03:17

### Gas Rates Information

Temperature:                      59 deg C  
Relative Density:                0.65  
Z Factor:                            0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.50	9.00	157.85
1	20	0.50	13.00	184.83
1	30	0.50	15.00	198.32
2	10	0.50	19.00	225.31
2	30	0.50	19.00	225.31
2	45	0.50	19.00	225.31

Serial #: 6755

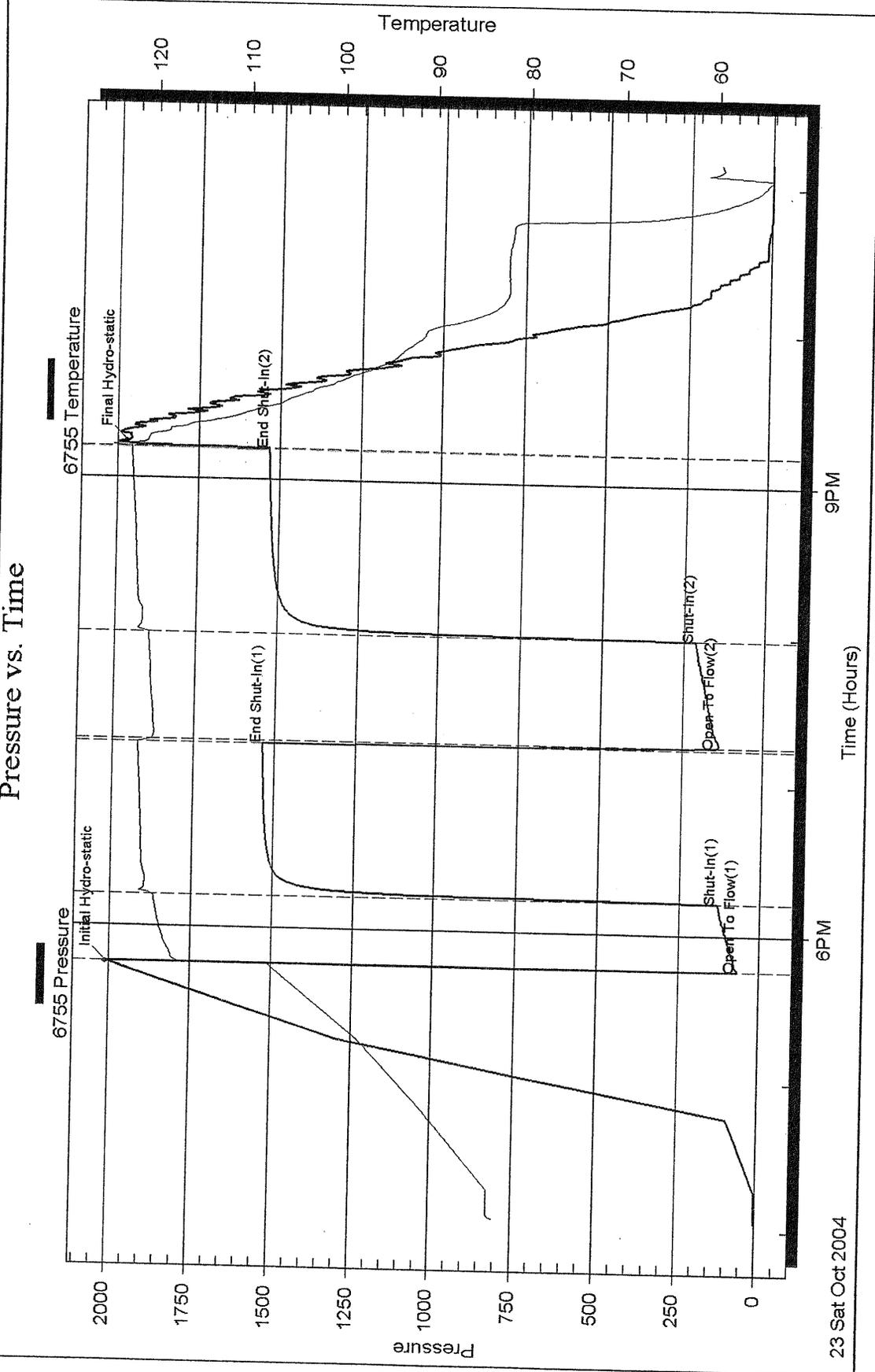
Inside

Raymond Oil Co. Inc.

6-32s-13w Barber Ks.

DST Test Number: 6

### Pressure vs. Time



23 Sat Oct 2004

6PM

9PM



## DRILL STEM TEST REPORT

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

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**6-32s-13w Barber Ks.**

**Dugan Trust B#1**

Start Date: 2004.10.24 @ 09:31:11

End Date: 2004.10.24 @ 16:57:41

Job Ticket #: 19264                      DST #: 7

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

Raymond Oil Co.Inc.

Dugan Trust B#1

6-32s-13w Barber Ks.

DST # 7

Marmaton

2004.10.24



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks. 67201

**6-32s-13w Barber Ks.**

ATTN: Clarke Sandberg

Job Ticket: 19264

DST#: 7

Test Start: 2004.10.24 @ 09:31:11

## GENERAL INFORMATION:

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

Time Tool Opened: 11:30:11

Time Test Ended: 16:57:41

Interval: **4331.00 ft (KB) To 4350.00 ft (KB) (TVD)**

Total Depth: 4350.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Reference Elevations: 1753.00 ft (KB)

1742.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6755**

**Inside**

Press@RunDepth: 30.10 psig @ 4332.00 ft (KB)

Start Date: 2004.10.24

End Date:

2004.10.24

Start Time: 09:31:16

End Time:

16:57:40

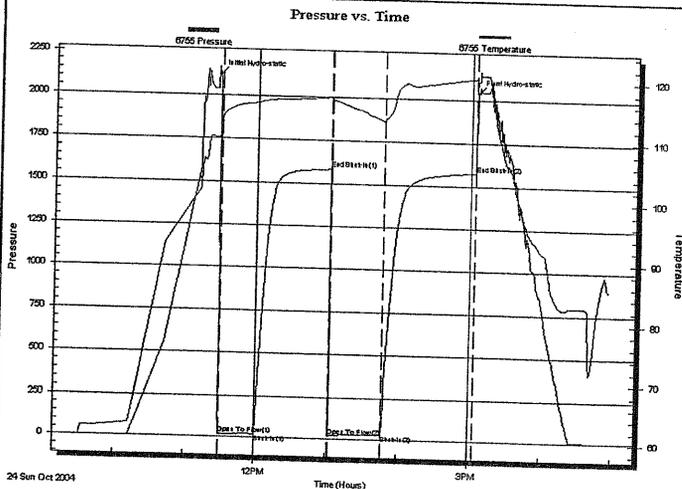
Capacity: 7000.00 psig

Last Calib.: 2004.10.24

Time On Btm: 2004.10.24 @ 11:27:26

Time Off Btm: 2004.10.24 @ 15:04:41

**TEST COMMENT:** IF: Strong blow . B.O;B. in 2.5 mins.  
IS: Fair to strong blow . GTS 22 mins. in to ISIP.  
FF: Strong blow . (see gas volume report)  
FS: No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.65	110.22	Initial Hydro-static
3	19.12	112.86	Open To Flow (1)
33	21.56	115.87	Shut-In (1)
95	1583.99	117.01	End Shut-In (1)
96	21.79	116.47	Open To Flow (2)
139	30.10	113.18	Shut-In (2)
216	1576.17	120.47	End Shut-In (2)
218	2038.62	119.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	Drig.mud	0.70

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.00	33.95
Last Gas Rate	0.25	5.00	30.78
Max. Gas Rate	0.25	7.00	33.95



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil Co.Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19264

**DST#: 7**

ATTN: Clarke Sandberg

Test Start: 2004.10.24 @ 09:31:11

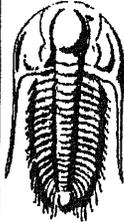
### Tool Information

Drill Pipe:	Length: 4332.00 ft	Diameter: 3.80 inches	Volume: 60.77 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 60.77 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4331.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

### Tool Comments:

8 ft. of Hard fill on btm. Slid tool throughout first open.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4310.00	
Shut In Tool	5.00			4315.00	
Hydraulic tool	5.00			4320.00	
Safety Joint	2.00			4322.00	
Packer	4.00			4326.00	22.00 Bottom Of Top Packer
Packer	5.00			4331.00	
Stubb	1.00			4332.00	
Recorder	0.00	6755	Inside	4332.00	
Perforations	13.00			4345.00	
Recorder	0.00	13222	Outside	4345.00	
Bullnose	5.00			4350.00	19.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>41.00</b>			



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19264

**DST#: 7**

ATTN: Clarke Sandberg

Test Start: 2004.10.24 @ 09:31:11

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 9.59 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 5000 ppm

deg API

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
50.00	Drig.mud	0.701

Total Length: 50.00 ft

Total Volume: 0.701 bbl

Num Fluid Samples: 0

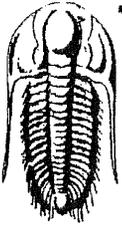
Num Gas Bombs: 1

Serial #: gp-7

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19264

**DST#:7**

ATTN: Clarke Sandberg

Test Start: 2004.10.24 @ 09:31:11

### Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	10	0.25	7.00	33.95
2	20	0.25	6.00	32.36
2	30	0.25	5.00	30.78
2	45	0.25	5.00	30.78

Serial #: 6755

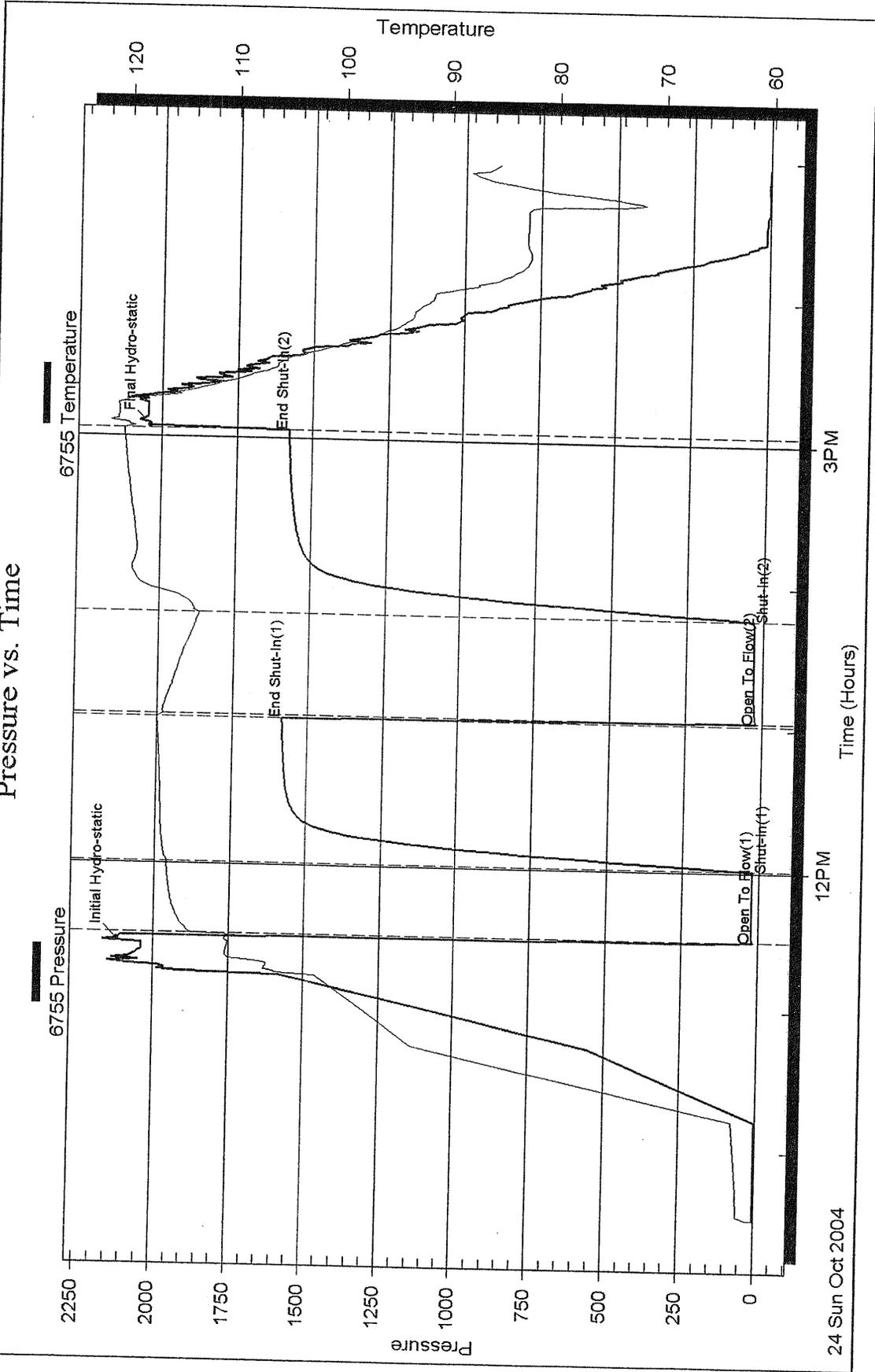
Inside

Raymond Oil Co. Inc.

6-32s-13w Barber Ks.

DST Test Number: 7

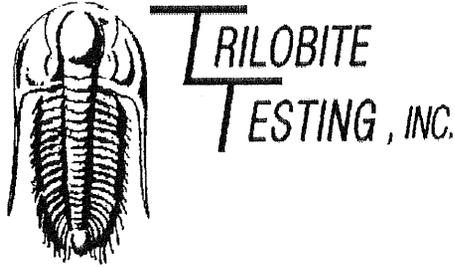
### Pressure vs. Time



24 Sun Oct 2004

12PM

3PM



## DRILL STEM TEST REPORT

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

P.O.Box 48788  
Wichita Ks.67201

ATTN: Clarke Sandberg

**6-32s-13w Barber Ks.**

**Dugan Trust B#1**

Start Date: 2004.10.25 @ 03:36:39

End Date: 2004.10.25 @ 12:01:39

Job Ticket #: 19265                      DST #: 8

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

Raymond Oil Co.Inc.

Dugan Trust B#1

6-32s-13w Barber Ks.

DST # 8

Miss.

2004.10.25



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19265

**DST#: 8**

ATTN: Clarke Sandberg

Test Start: 2004.10.25 @ 03:36:39

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:19:39

Time Test Ended: 12:01:39

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4405.00 ft (KB) To 4418.00 ft (KB) (TVD)**

Total Depth: 4418.00 ft (KB) (TVD)

Reference Elevations: 1753.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Poor

1742.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6755** Inside

Press@RunDepth: 19.55 psig @ 4406.00 ft (KB)

Start Date: 2004.10.25

End Date:

2004.10.25

Capacity: 7000.00 psig

Last Calib.: 2004.10.25

Start Time: 03:36:44

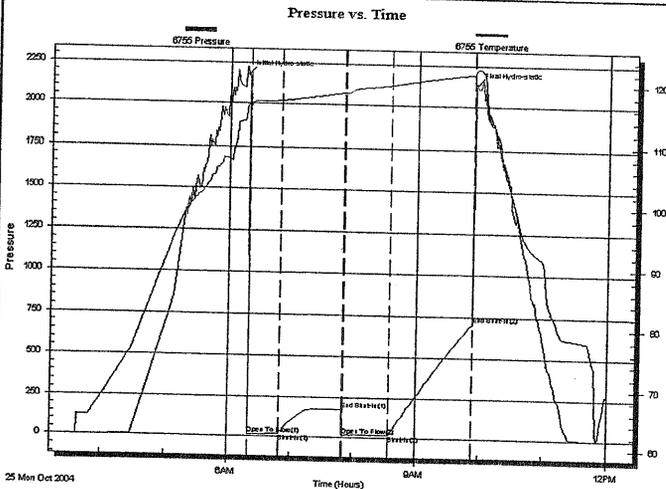
End Time:

12:01:38

Time On Btm: 2004.10.25 @ 06:17:24

Time Off Btm: 2004.10.25 @ 09:55:39

**TEST COMMENT:** IF: Strong blow . B.O.B. in 2.5 mins.  
IS: Weak to fair blow . 1 - 7".  
FF: Strong blow . B.O.B. in 10 secs.  
FSI: No blow .



## PRESSURE SUMMARY

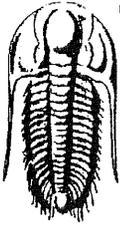
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.34	116.25	Initial Hydro-static
3	17.34	115.61	Open To Flow (1)
32	18.42	117.03	Shut-In (1)
93	174.07	118.48	End Shut-In (1)
93	16.97	118.42	Open To Flow (2)
138	19.55	119.84	Shut-In (2)
217	705.80	121.88	End Shut-In (2)
219	2132.86	122.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
12.00	Drig.mud	0.17
0.00	400ft. of GIP	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.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19265      **DST#: 8**

ATTN: Clarke Sandberg

Test Start: 2004.10.25 @ 03:36:39

### Tool Information

Drill Pipe:	Length: 4395.00 ft	Diameter: 3.80 inches	Volume: 61.65 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 61.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4405.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	35.00 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			4384.00	
Shut In Tool	5.00			4389.00	
Hydraulic tool	5.00			4394.00	
Safety Joint	2.00			4396.00	
Packer	4.00			4400.00	22.00      Bottom Of Top Packer
Packer	5.00			4405.00	
Stubb	1.00			4406.00	
Recorder	0.00	6755	Inside	4406.00	
Perforations	7.00			4413.00	
Recorder	0.00	13222	Outside	4413.00	
Bullhose	5.00			4418.00	13.00      Bottom Packers & Anchor

**Total Tool Length: 35.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil Co. Inc.

**Dugan Trust B#1**

P.O.Box 48788  
Wichita Ks.67201

**6-32s-13w Barber Ks.**

Job Ticket: 19265

**DST#: 8**

ATTN: Clarke Sandberg

Test Start: 2004.10.25 @ 03:36:39

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 10.19 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 5000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
12.00	Drig.mud	0.168
0.00	400ft. of GIP	0.000

Total Length: 12.00 ft      Total Volume: 0.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

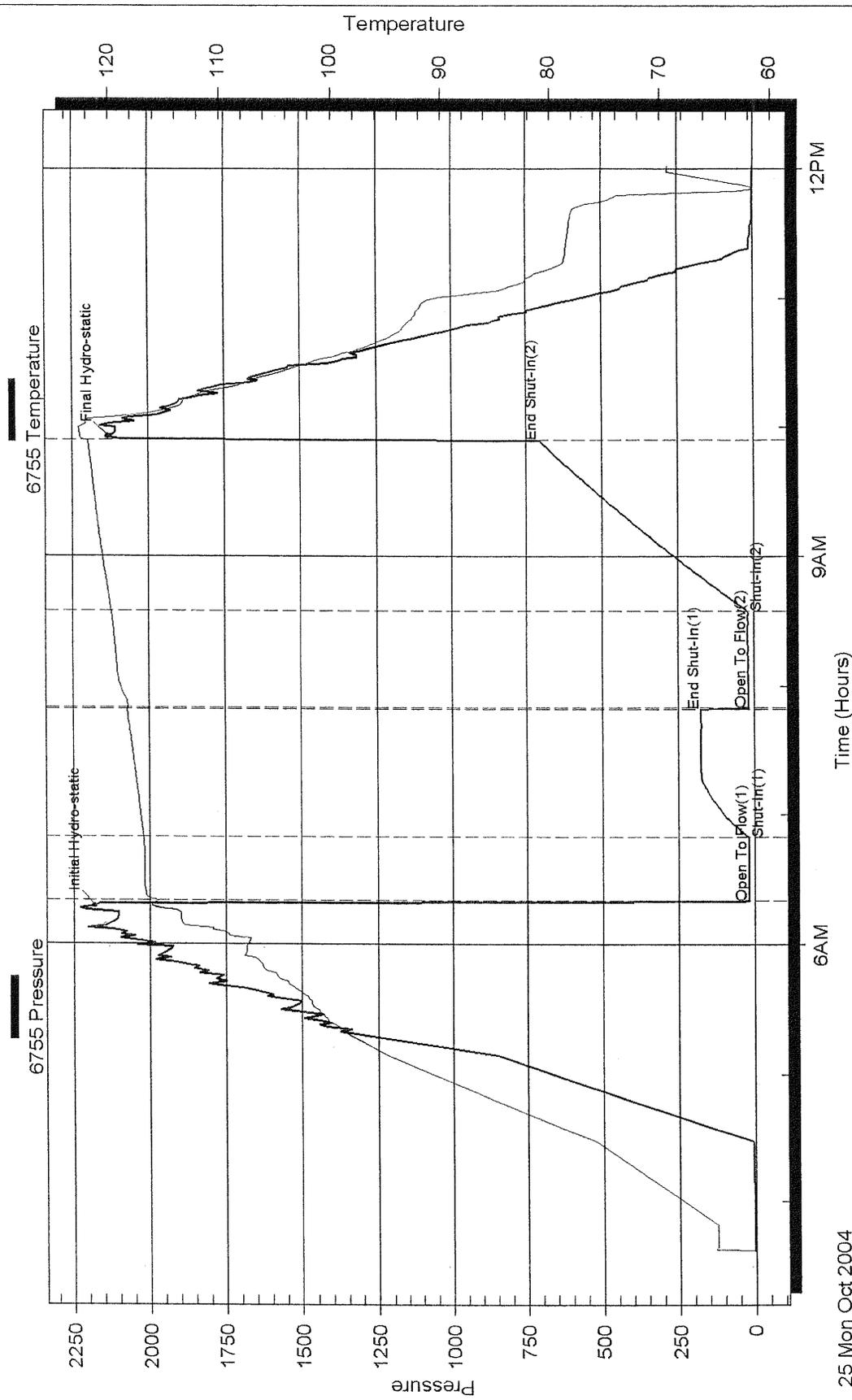
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



25 Mon Oct 2004