



## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Sout St STE 1500  
Denver, CO 80202

ATTN: Tim Lauer

**Rath Newman #24-33D**

**33-1s-41w Cheyenne,KS**

Start Date: 2015.10.31 @ 11:50:00

End Date: 2015.10.31 @ 18:17:30

Job Ticket #: 62851                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.11.09 @ 09:37:30



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

ATTN: Tim Lauer

Job Ticket: 62851

**DST#: 1**

Test Start: 2015.10.31 @ 11:50:00

## GENERAL INFORMATION:

Formation: **Tarkio**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:51:30

Time Test Ended: 18:17:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

**Interval: 4093.00 ft (KB) To 4170.00 ft (KB) (TVD)**

Reference Elevations: 3485.00 ft (KB)

Total Depth: 4170.00 ft (KB) (TVD)

3476.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8366 Outside**

Press@RunDepth: 12.31 psig @ 4094.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.31

End Date:

2015.10.31

Last Calib.:

2015.10.31

Start Time:

11:50:05

End Time:

18:17:29

Time On Btm:

2015.10.31 @ 13:51:00

Time Off Btm:

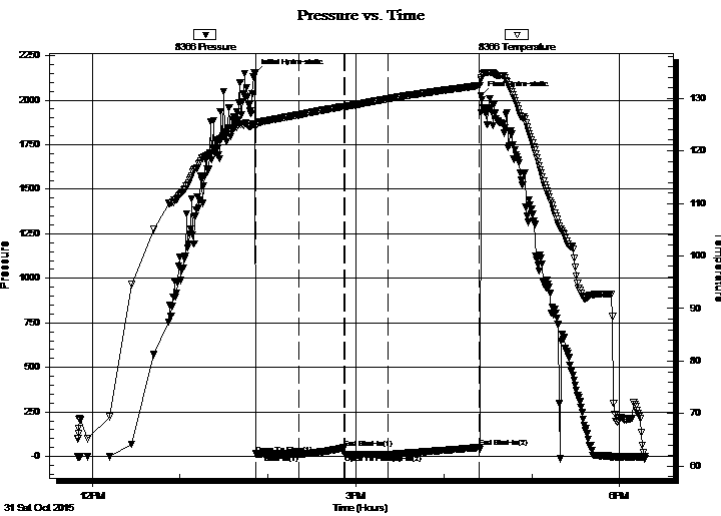
2015.10.31 @ 16:25:30

**TEST COMMENT:** 30 - IF: Blow built to 1/2" at 20 min., slowly died back to just over 1/4"

30 - ISI: No blow back

30 - FF: No blow

60 - FSI: No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.17	125.21	Initial Hydro-static
1	14.55	124.60	Open To Flow (1)
30	14.21	126.84	Shut-In(1)
61	48.23	128.42	End Shut-In(1)
62	12.10	128.40	Open To Flow (2)
91	12.31	129.87	Shut-In(2)
154	50.72	132.40	End Shut-In(2)
155	2026.17	133.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w /trace oil 100%m	0.01

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

Job Ticket: 62851

**DST#: 1**

ATTN: Tim Lauer

Test Start: 2015.10.31 @ 11:50:00

## Tool Information

Drill Pipe:	Length: 4088.00 ft	Diameter: 3.80 inches	Volume: 57.34 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 57.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4093.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4077.00	
Hydraulic tool	5.00			4082.00	
Change Over Sub	1.00			4083.00	
Packer - Shale	0.00			4083.00	
Packer	5.00			4088.00	21.00 Bottom Of Top Packer
Packer	5.00			4093.00	
Packer - Shale	0.00			4093.00	
Stubb	1.00			4094.00	
Recorder	0.00	8791	Inside	4094.00	
Recorder	0.00	8366	Outside	4094.00	
Perforations	8.00			4102.00	
Blank Spacing	65.00			4167.00	
Bullnose	3.00			4170.00	77.00 Bottom Packers & Anchor

**Total Tool Length: 98.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

Job Ticket: 62851

**DST#: 1**

ATTN: Tim Lauer

Test Start: 2015.10.31 @ 11:50:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w /trace oil 100%m	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

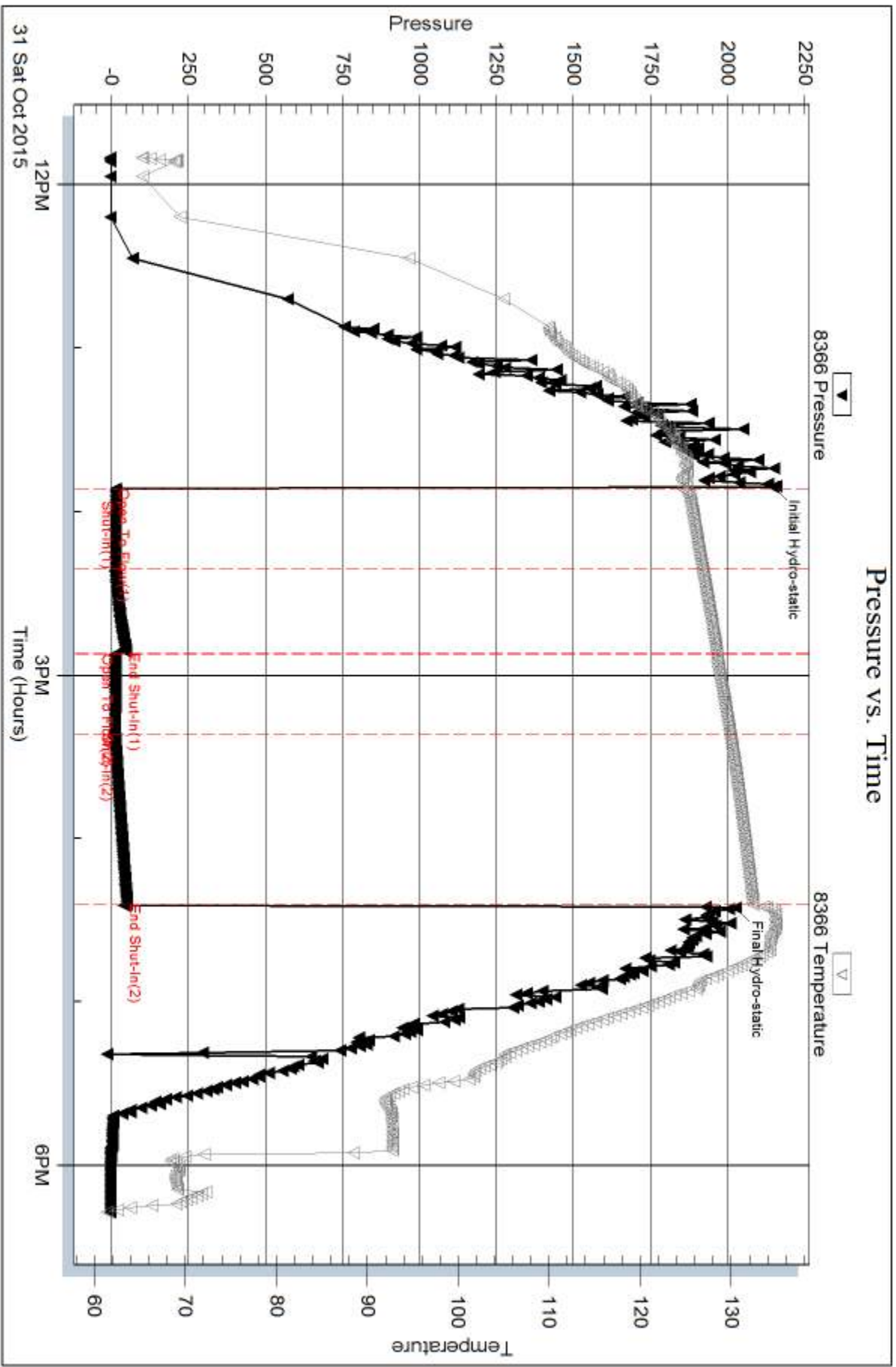
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



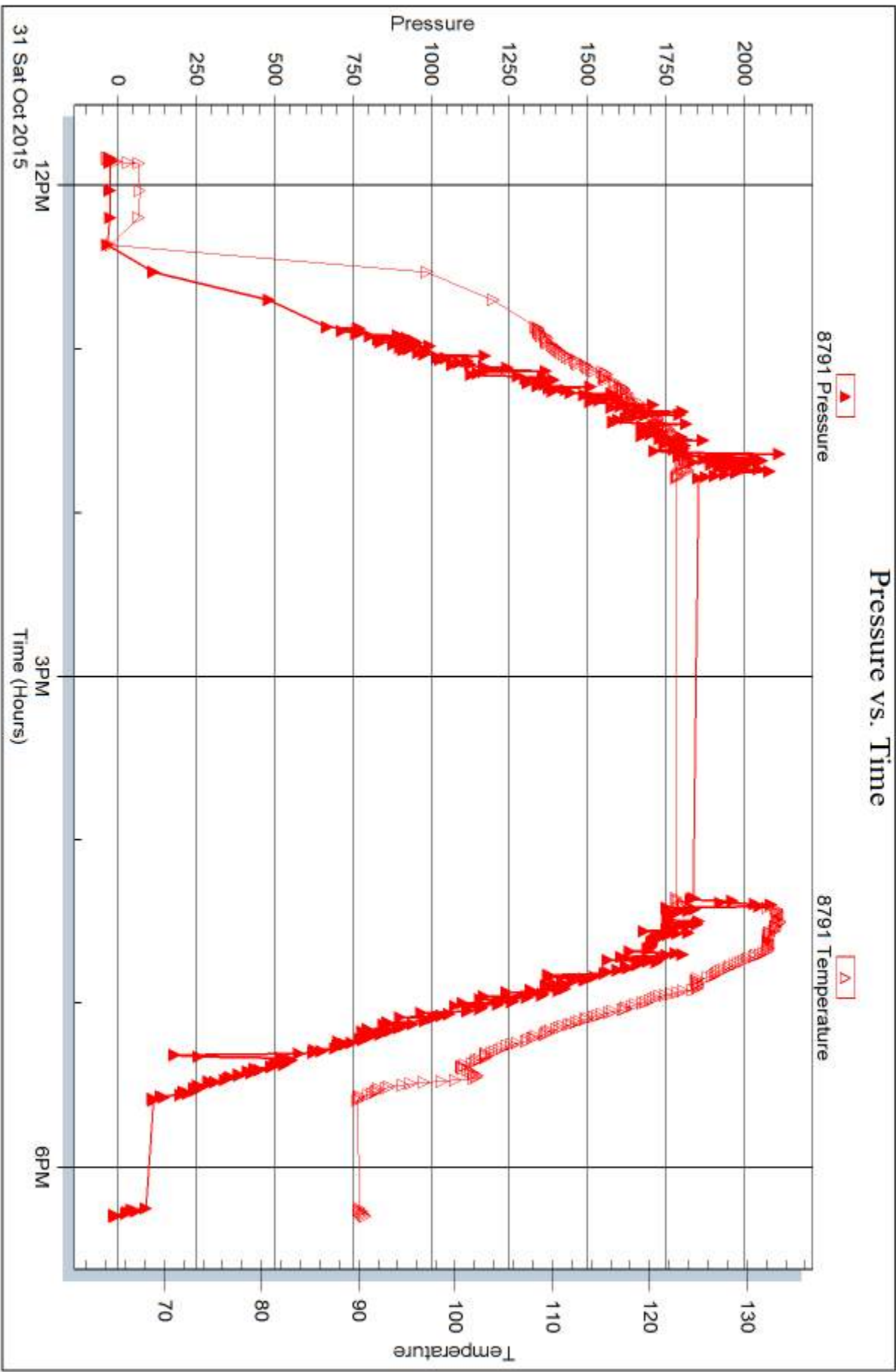
Serial #: 8791

Inside

Coral Production Corp.

Rath New man #24-33D

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62851

Printed: 2015.11.09 @ 09:37:32



## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Sout St STE 1500  
Denver, CO 80202

ATTN: Tim Lauer

**Rath Newman #24-33D**

**33-1s-41w Cheyenne,KS**

Start Date: 2015.11.01 @ 11:31:00

End Date: 2015.11.01 @ 19:34:45

Job Ticket #: 62852                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.11.09 @ 09:37:06





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

ATTN: Tim Lauer

Job Ticket: 62852

**DST#: 2**

Test Start: 2015.11.01 @ 11:31:00

## GENERAL INFORMATION:

Formation: **Lower Topeka - Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:20:45

Time Test Ended: 19:34:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 4238.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Reference Elevations: 3485.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

3476.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 34.63 psig @ 4239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.01

End Date:

2015.11.01

Last Calib.: 2015.11.01

Start Time: 11:31:05

End Time:

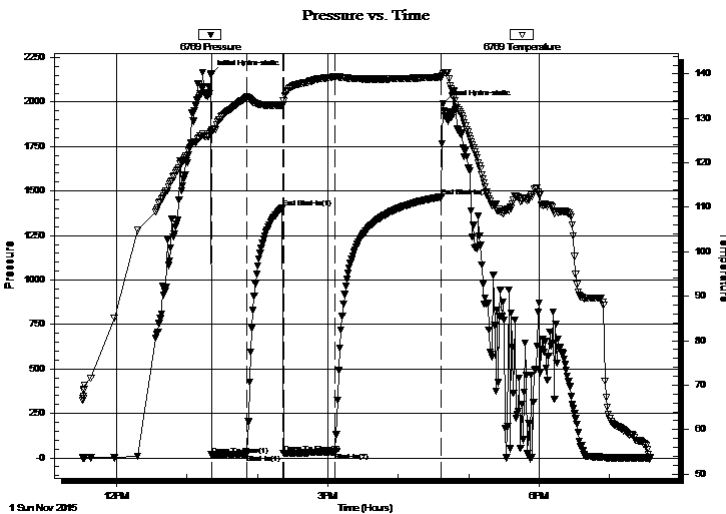
19:34:44

Time On Btm: 2015.11.01 @ 13:20:30

Time Off Btm: 2015.11.01 @ 16:38:15

**TEST COMMENT:** 30 - IF: Blow built to 1 3/4"  
30 - No blow back  
45 - FF: Blow started at 28 min., built to just over 1/4"  
90 - FSI: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.29	126.79	Initial Hydro-static
1	17.92	126.91	Open To Flow (1)
31	23.30	134.77	Shut-In(1)
61	1408.47	132.94	End Shut-In(1)
62	25.18	133.91	Open To Flow (2)
106	34.63	139.41	Shut-In(2)
197	1467.80	139.32	End Shut-In(2)
198	1988.49	140.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	MCW 82%w, 18%m	0.63
0.00	Show of Oil in tool	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Coral Production Corp.  
 1600 Sout St STE 1500  
 Denver, CO 80202  
 ATTN: Tim Lauer

**33-1s-41w Cheyenne, KS**

**Rath Newman #24-33D**

Job Ticket: 62852 **DST#: 2**

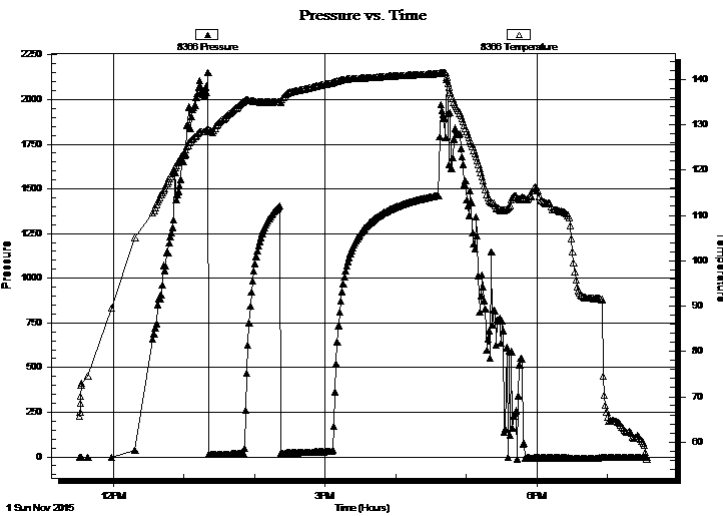
Test Start: 2015.11.01 @ 11:31:00

**GENERAL INFORMATION:**

**Formation:** Lower Topeka - Oread  
**Deviated:** No **Whipstock:** ft (KB)  
**Time Tool Opened:** 13:20:45  
**Time Test Ended:** 19:34:45  
**Interval:** 4238.00 ft (KB) To 4340.00 ft (KB) (TVD)  
**Total Depth:** 4340.00 ft (KB) (TVD)  
**Hole Diameter:** 7.88 inches **Hole Condition:** Fair  
**Test Type:** Conventional Bottom Hole (Reset)  
**Tester:** James Winder  
**Unit No:** 83  
**Reference Elevations:** 3485.00 ft (KB)  
 3476.00 ft (CF)  
**KB to GR/CF:** 9.00 ft

**Serial #: 8366** **Outside**  
**Press@RunDepth:** psig @ 4239.00 ft (KB) **Capacity:** 8000.00 psig  
**Start Date:** 2015.11.01 **End Date:** 2015.11.01 **Last Calib.:** 2015.11.01  
**Start Time:** 11:31:05 **End Time:** 19:33:59 **Time On Btm:**  
**Time Off Btm:**

**TEST COMMENT:** 30 - IF: Blow built to 1 3/4"  
 30 - No blow back  
 45 - FF: Blow started at 28 min., built to just over 1/4"  
 90 - FSI: No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
45.00	MCW 82%w , 18%m	0.63
0.00	Show of Oil in tool	0.00

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

Job Ticket: 62852

**DST#: 2**

ATTN: Tim Lauer

Test Start: 2015.11.01 @ 11:31:00

## Tool Information

Drill Pipe:	Length: 4249.00 ft	Diameter: 3.80 inches	Volume: 59.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 59.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4238.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: tool drug and they worked it coming out of hole

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4222.00	
Hydraulic tool	5.00			4227.00	
Change Over Sub	1.00			4228.00	
Packer - Shale	0.00			4228.00	
Packer	5.00			4233.00	21.00 Bottom Of Top Packer
Packer	5.00			4238.00	
Packer - Shale	0.00			4238.00	
Stubb	1.00			4239.00	
Recorder	0.00	6769	Inside	4239.00	
Recorder	0.00	8366	Outside	4239.00	
Perforations	33.00			4272.00	
Blank Spacing	65.00			4337.00	
Bullnose	3.00			4340.00	102.00 Bottom Packers & Anchor

**Total Tool Length: 123.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

Job Ticket: 62852

**DST#: 2**

ATTN: Tim Lauer

Test Start: 2015.11.01 @ 11:31:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	MCW 82%w , 18%m	0.631
0.00	Show of Oil in tool	0.000

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

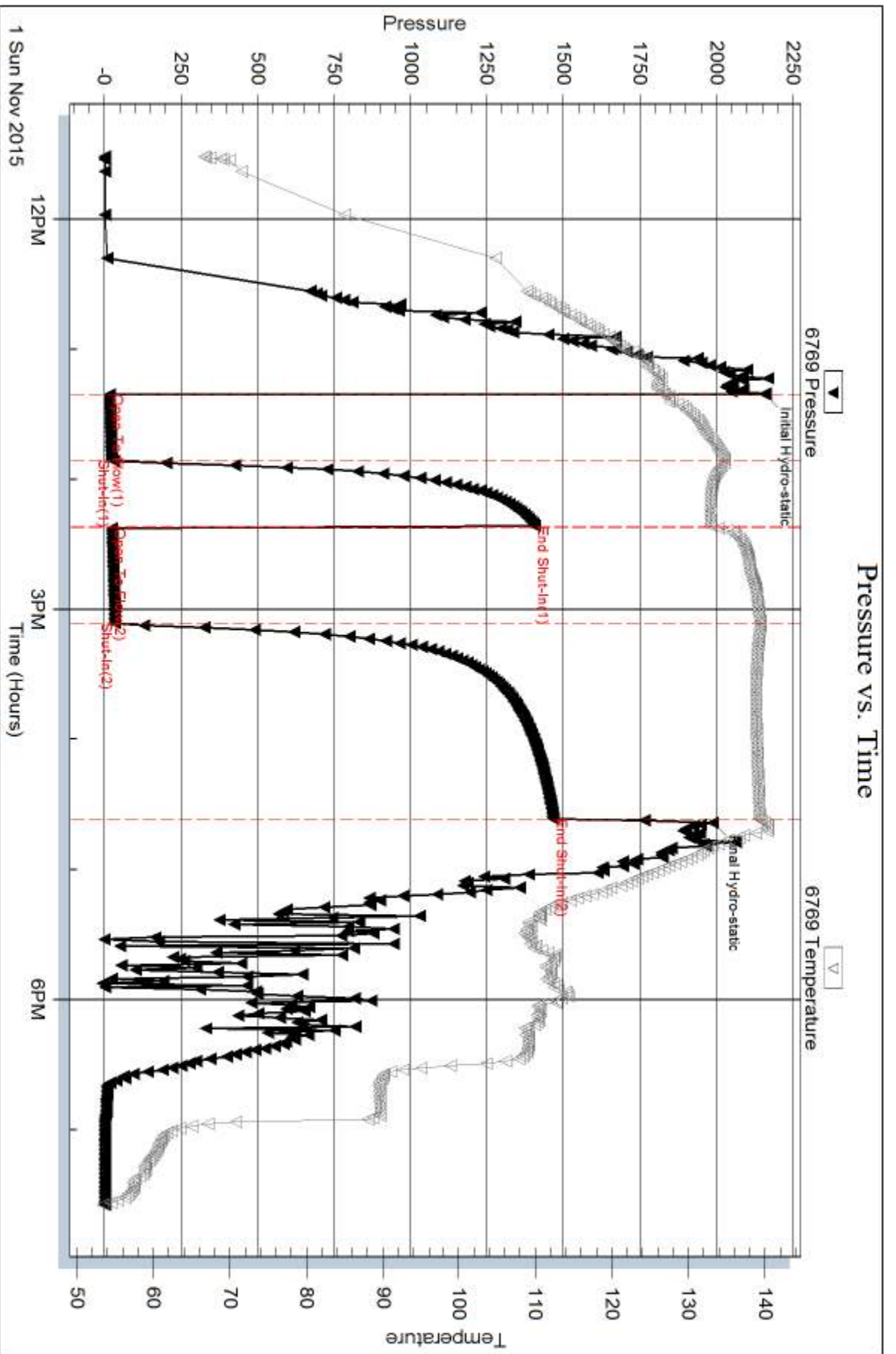
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

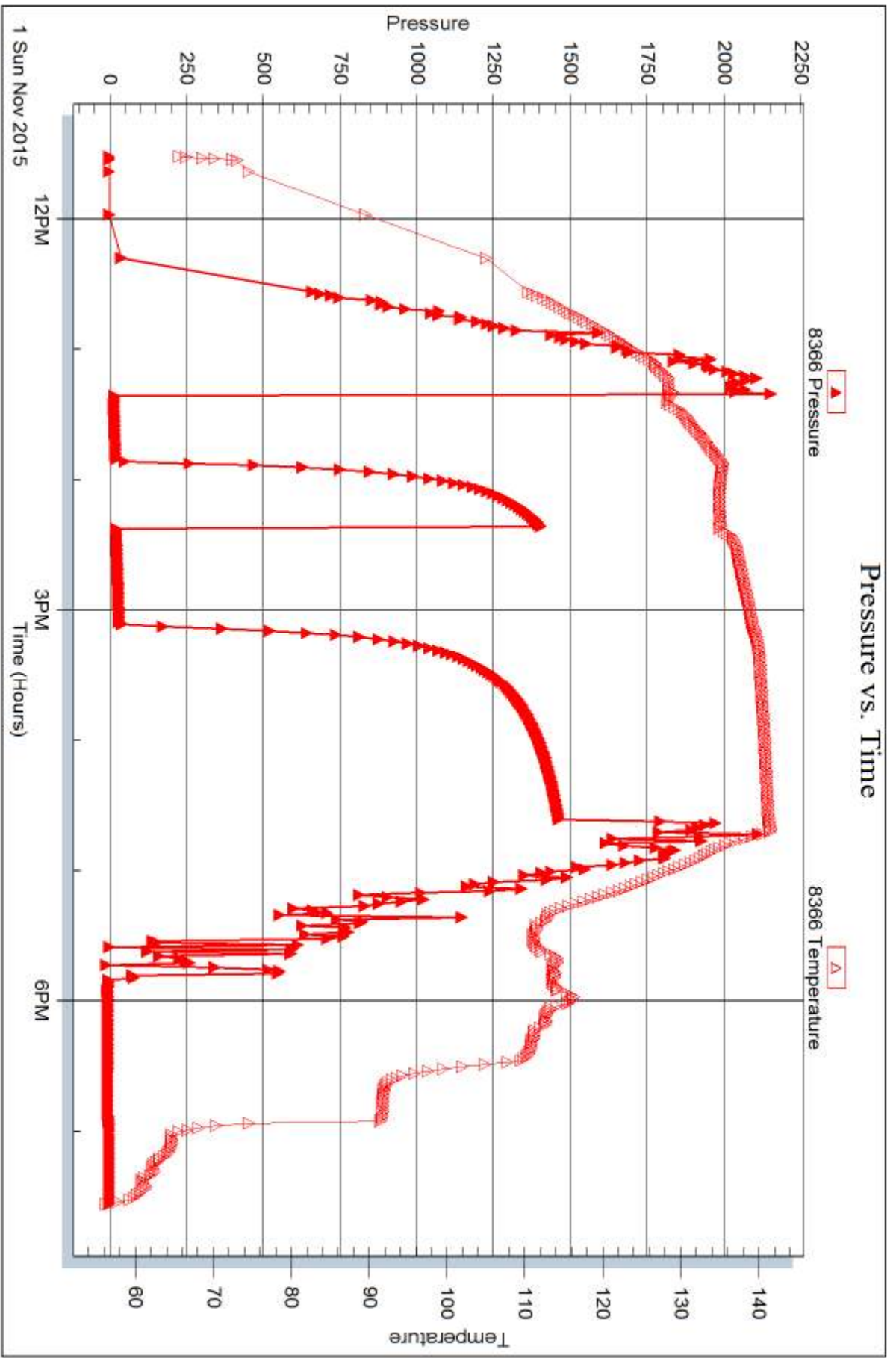


Serial #: 8366

Outside Coral Production Corp.

Rath New man #24-33D

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Sout St STE 1500  
Denver, CO 80202

ATTN: Tim Lauer

**Rath Newman #24-33D**

**33-1s-41w Cheyenne,KS**

Start Date: 2015.11.02 @ 17:57:00

End Date: 2015.11.03 @ 00:54:30

Job Ticket #: 62853                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.11.09 @ 09:36:46

Coral Production Corp.

33-1s-41w Cheyenne,KS

Rath Newman #24-33D

DST # 3

LKC "A - D"

2015.11.02



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Coral Production Corp.

**33-1s-41w Cheyenne, KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

ATTN: Tim Lauer

Job Ticket: 62853

**DST#: 3**

Test Start: 2015.11.02 @ 17:57:00

## GENERAL INFORMATION:

Formation: **LKC "A - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:38:15

Time Test Ended: 00:54:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 4350.00 ft (KB) To 4505.00 ft (KB) (TVD)**

Reference Elevations: 3485.00 ft (KB)

Total Depth: 4505.00 ft (KB) (TVD)

3476.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 18.96 psig @ 4351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.02

End Date:

2015.11.03

Last Calib.:

2015.11.03

Start Time:

17:57:05

End Time:

00:54:29

Time On Btm:

2015.11.02 @ 19:37:45

Time Off Btm:

2015.11.02 @ 22:57:45

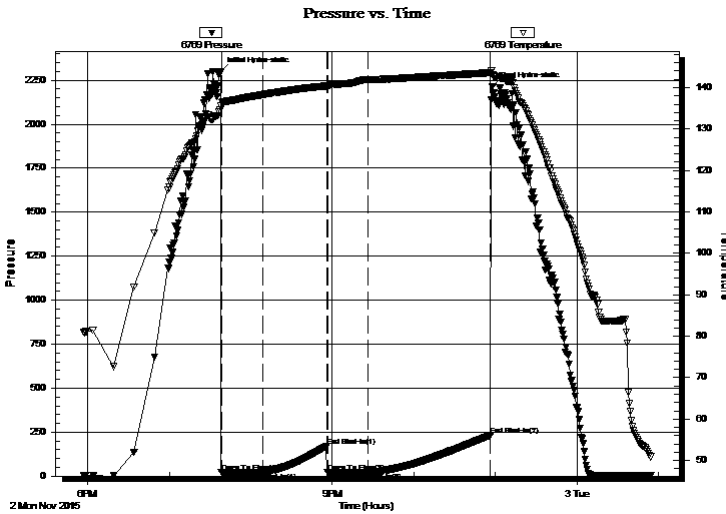
**TEST COMMENT:** 30 - IF: 1/4" Blow at open, built to just over 1", died back to weak surface blow

45 - IS: No blow back

30 - FF: No blow

90 - FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.57	134.68	Initial Hydro-static
1	20.93	135.62	Open To Flow (1)
31	21.63	138.26	Shut-In(1)
78	169.57	140.40	End Shut-In(1)
79	20.36	140.36	Open To Flow (2)
109	18.96	141.93	Shut-In(2)
199	231.19	143.58	End Shut-In(2)
200	2213.15	143.08	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
6.00	Mud 100%m	0.08

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

\* Recovery from multiple tests





# DRILL STEM TEST REPORT

Coral Production Corp.

33-1s-41w Cheyenne, KS

1600 Sout St STE 1500  
Denver, CO 80202

Rath Newman #24-33D

Job Ticket: 62853

DST#: 3

ATTN: Tim Lauer

Test Start: 2015.11.02 @ 17:57:00

## GENERAL INFORMATION:

Formation: **LKC "A - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:38:15

Time Test Ended: 00:54:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 4350.00 ft (KB) To 4505.00 ft (KB) (TVD)**

Reference Elevations: 3485.00 ft (KB)

Total Depth: 4505.00 ft (KB) (TVD)

3476.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8366**

Outside

Press@RunDepth: psig @ 4351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.02

End Date: 2015.11.03

Last Calib.: 2015.11.03

Start Time: 17:57:05

End Time: 00:53:44

Time On Btm:

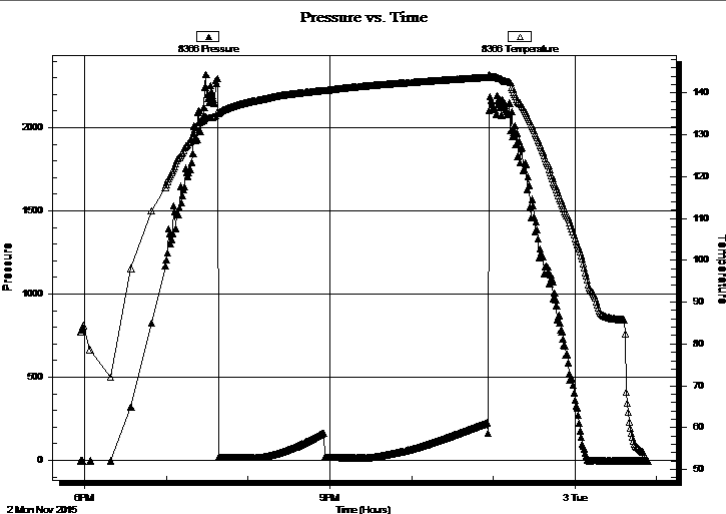
Time Off Btm:

**TEST COMMENT:** 30 - IF: 1/4" Blow at open, built to just over 1", died back to weak surface blow

45 - IS: No blow back

30 - FF: No blow

90 - FS: No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
6.00	Mud 100%m	0.08

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

Job Ticket: 62853

**DST#: 3**

ATTN: Tim Lauer

Test Start: 2015.11.02 @ 17:57:00

## Tool Information

Drill Pipe:	Length: 4345.00 ft	Diameter: 3.80 inches	Volume: 60.95 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 60.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4350.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	155.00 ft			
Tool Length:	176.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4334.00	
Hydraulic tool	5.00			4339.00	
Change Over Sub	1.00			4340.00	
Packer - Shale	0.00			4340.00	
Packer	5.00			4345.00	21.00 Bottom Of Top Packer
Packer	5.00			4350.00	
Packer - Shale	0.00			4350.00	
Stubb	1.00			4351.00	
Recorder	0.00	6769	Inside	4351.00	
Recorder	0.00	8366	Outside	4351.00	
Perforations	23.00			4374.00	
Blank Spacing	128.00			4502.00	
Bullnose	3.00			4505.00	155.00 Bottom Packers & Anchor

**Total Tool Length: 176.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

Job Ticket: 62853

**DST#: 3**

ATTN: Tim Lauer

Test Start: 2015.11.02 @ 17:57:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	Mud 100%m	0.084

Total Length: 6.00 ft      Total Volume: 0.084 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

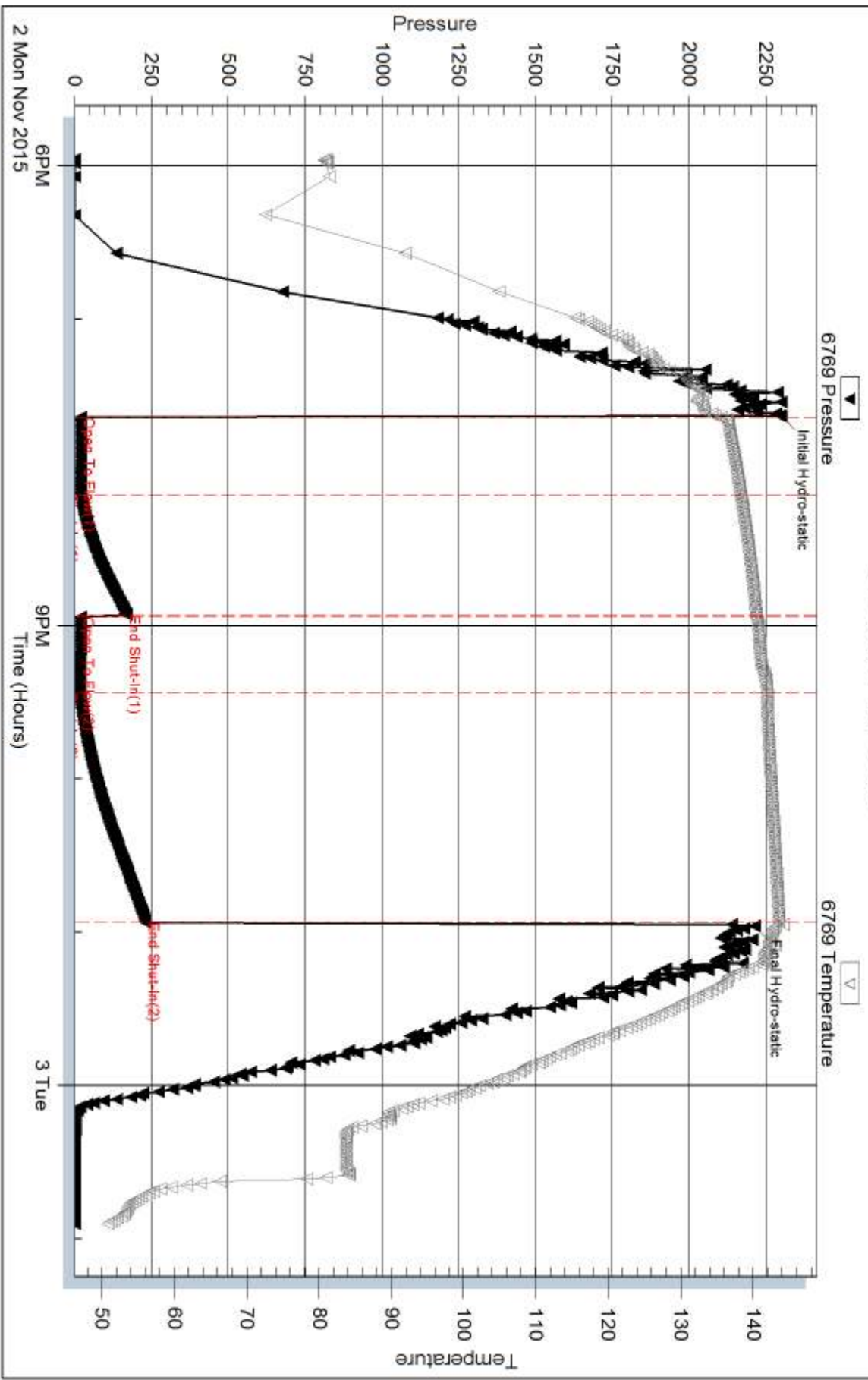
Serial #:

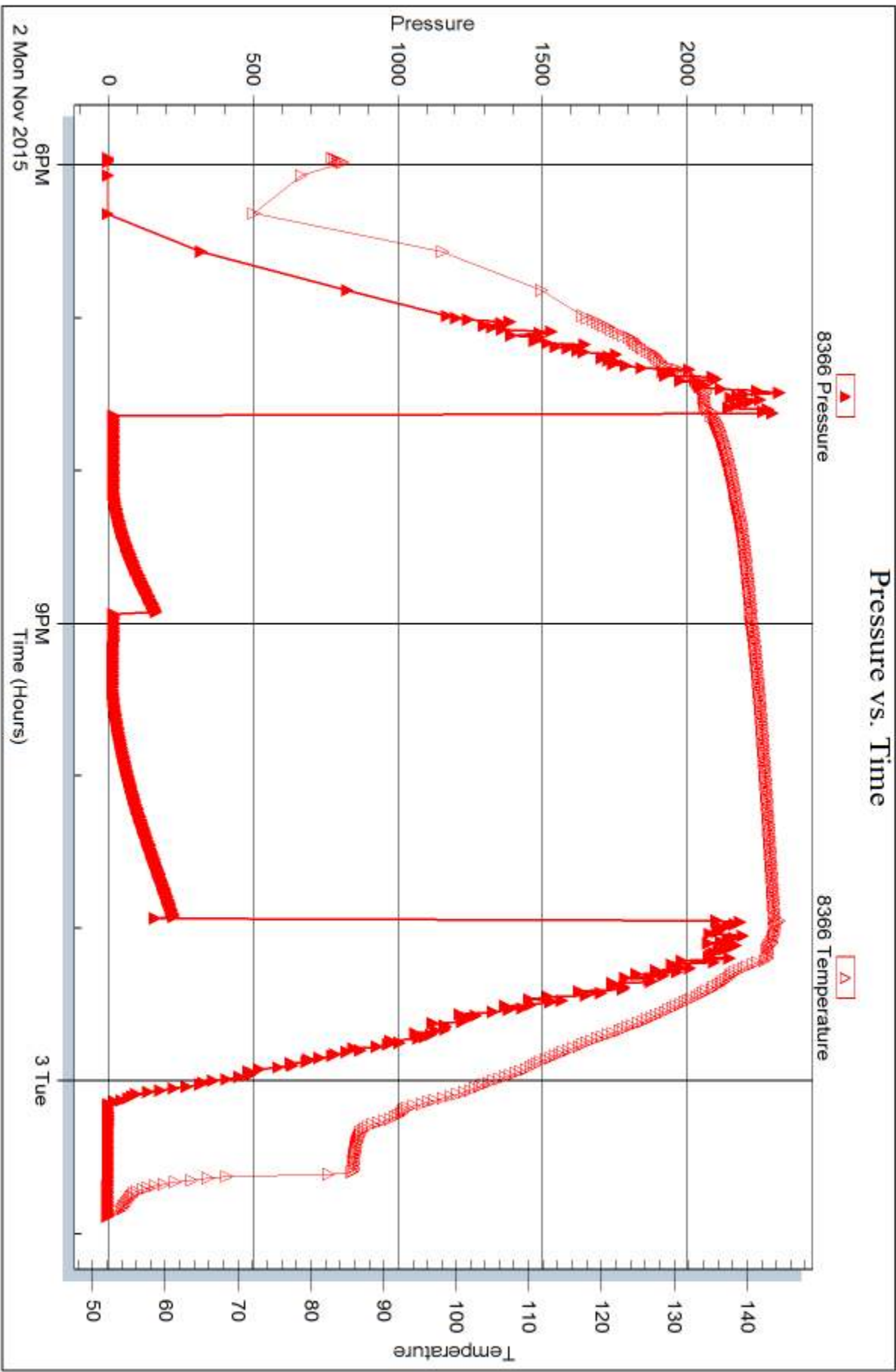
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Sout St STE 1500  
Denver, CO 80202

ATTN: Tim Lauer

**Rath Newman #24-33D**

**33-1s-41w Cheyenne,KS**

Start Date: 2015.11.04 @ 04:17:00

End Date: 2015.11.04 @ 11:39:45

Job Ticket #: 62854                      DST #: 4

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.11.09 @ 09:36:23

Coral Production Corp.

33-1s-41w Cheyenne,KS

Rath Newman #24-33D

DST # 4

LKC "G-L"

2015.11.04



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**33-1s-41w Cheyenne, KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

ATTN: Tim Lauer

Job Ticket: 62854

**DST#: 4**

Test Start: 2015.11.04 @ 04:17:00

## GENERAL INFORMATION:

Formation: **LKC "G - L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:31:00

Time Test Ended: 11:39:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 4540.00 ft (KB) To 4725.00 ft (KB) (TVD)**

Reference Elevations: 3485.00 ft (KB)

Total Depth: 4725.00 ft (KB) (TVD)

3476.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 117.15 psig @ 4541.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.04

End Date:

2015.11.04

Last Calib.: 2015.11.04

Start Time: 04:17:05

End Time:

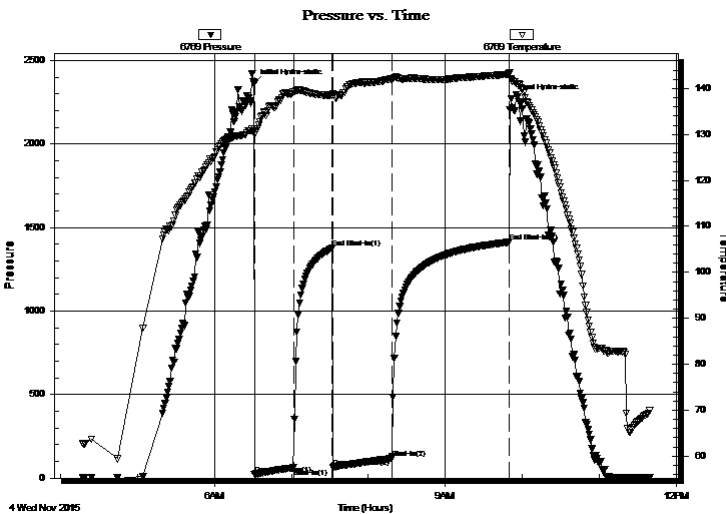
11:39:44

Time On Btm: 2015.11.04 @ 06:30:45

Time Off Btm: 2015.11.04 @ 09:51:00

**TEST COMMENT:** 30 - IF: Blow built to 7 1/4"  
30 - ISI: No blow back  
45 - FF: Blow built to 6 1/2"  
90 - FSI: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2362.36	130.65	Initial Hydro-static
1	21.16	129.97	Open To Flow (1)
31	61.46	139.21	Shut-In(1)
61	1376.19	138.55	End Shut-In(1)
62	64.78	138.80	Open To Flow (2)
108	117.15	142.15	Shut-In(2)
199	1412.73	143.15	End Shut-In(2)
201	2269.86	142.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	WCM w/Oil spots 70% <sub>m</sub> , 24% <sub>w</sub> , 3% <sub>o</sub> , 3% <sub>g</sub>	1.75
90.00	Mud w/Oil spots 98% <sub>m</sub> , 2% <sub>o</sub>	1.26

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

ATTN: Tim Lauer

Job Ticket: 62854

**DST#: 4**

Test Start: 2015.11.04 @ 04:17:00

## GENERAL INFORMATION:

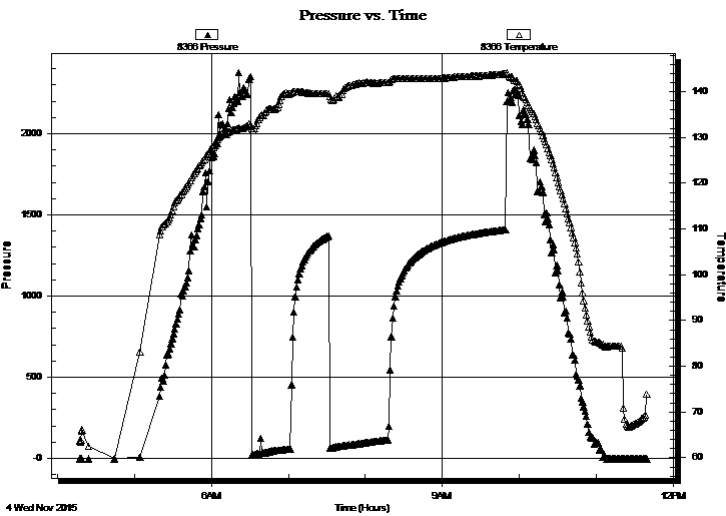
Formation: <b>LKC "G - L"</b>			Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:		ft (KB)	Tester: James Winder
Time Tool Opened: 06:31:00			Unit No: 83
Time Test Ended: 11:39:45			Reference Elevations: 3485.00 ft (KB)
<b>Interval: 4540.00 ft (KB) To 4725.00 ft (KB) (TVD)</b>			3476.00 ft (CF)
Total Depth: 4725.00 ft (KB) (TVD)			KB to GR/CF: 9.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair		

## Serial #: 8366

**Outside**

Press@RunDepth: psig @ 4541.00 ft (KB)	Capacity: 8000.00 psig	
Start Date: 2015.11.04	End Date: 2015.11.04	Last Calib.: 2015.11.04
Start Time: 04:17:05	End Time: 11:39:14	Time On Btm:
		Time Off Btm:

**TEST COMMENT:** 30 - IF: Blow built to 7 1/4"  
30 - ISI: No blow back  
45 - FF: Blow built to 6 1/2"  
90 - FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	WCM w/Oil spots 70%m, 24%w, 3%o, 3%	1.75
90.00	Mud w/Oil spots 98%m, 2%o	1.26

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

Job Ticket: 62854

**DST#: 4**

ATTN: Tim Lauer

Test Start: 2015.11.04 @ 04:17:00

## Tool Information

Drill Pipe:	Length: 4535.00 ft	Diameter: 3.80 inches	Volume: 63.61 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 63.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4540.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	185.00 ft			
Tool Length:	206.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4524.00	
Hydraulic tool	5.00			4529.00	
Change Over Sub	1.00			4530.00	
Packer - Shale	0.00			4530.00	
Packer	5.00			4535.00	21.00 Bottom Of Top Packer
Packer	5.00			4540.00	
Packer - Shale	0.00			4540.00	
Stubb	1.00			4541.00	
Recorder	0.00	6769	Inside	4541.00	
Recorder	0.00	8366	Outside	4541.00	
Perforations	22.00			4563.00	
Blank Spacing	159.00			4722.00	
Bullnose	3.00			4725.00	185.00 Bottom Packers & Anchor

**Total Tool Length: 206.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

Job Ticket: 62854

**DST#: 4**

ATTN: Tim Lauer

Test Start: 2015.11.04 @ 04:17:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	WCM w /Oil spots 70%m, 24%w , 3%o, 3%g	1.753
90.00	Mud w /Oil spots 98%m, 2%o	1.262

Total Length: 215.00 ft      Total Volume: 3.015 bbl

Num Fluid Samples: 0

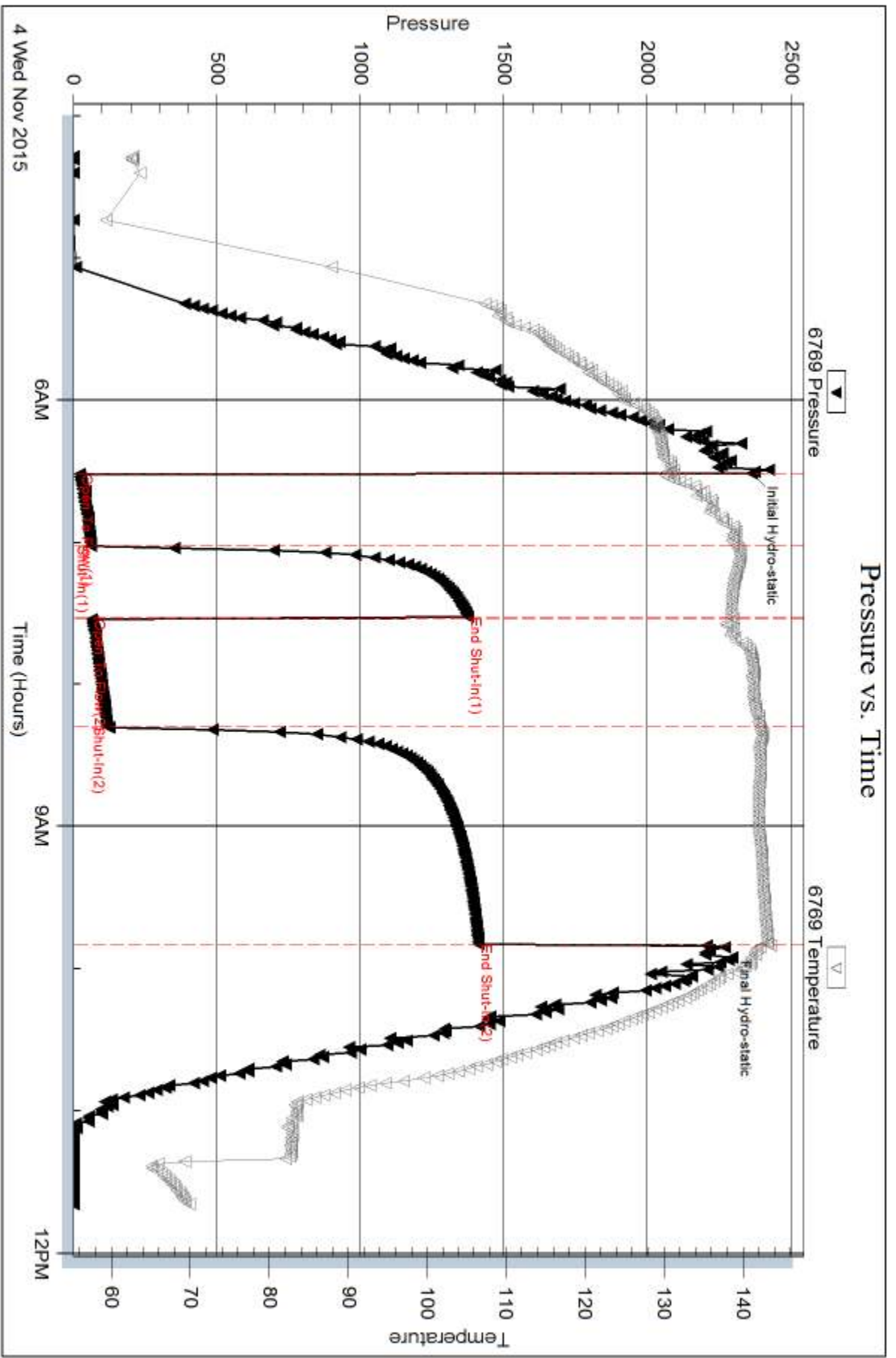
Num Gas Bombs: 0

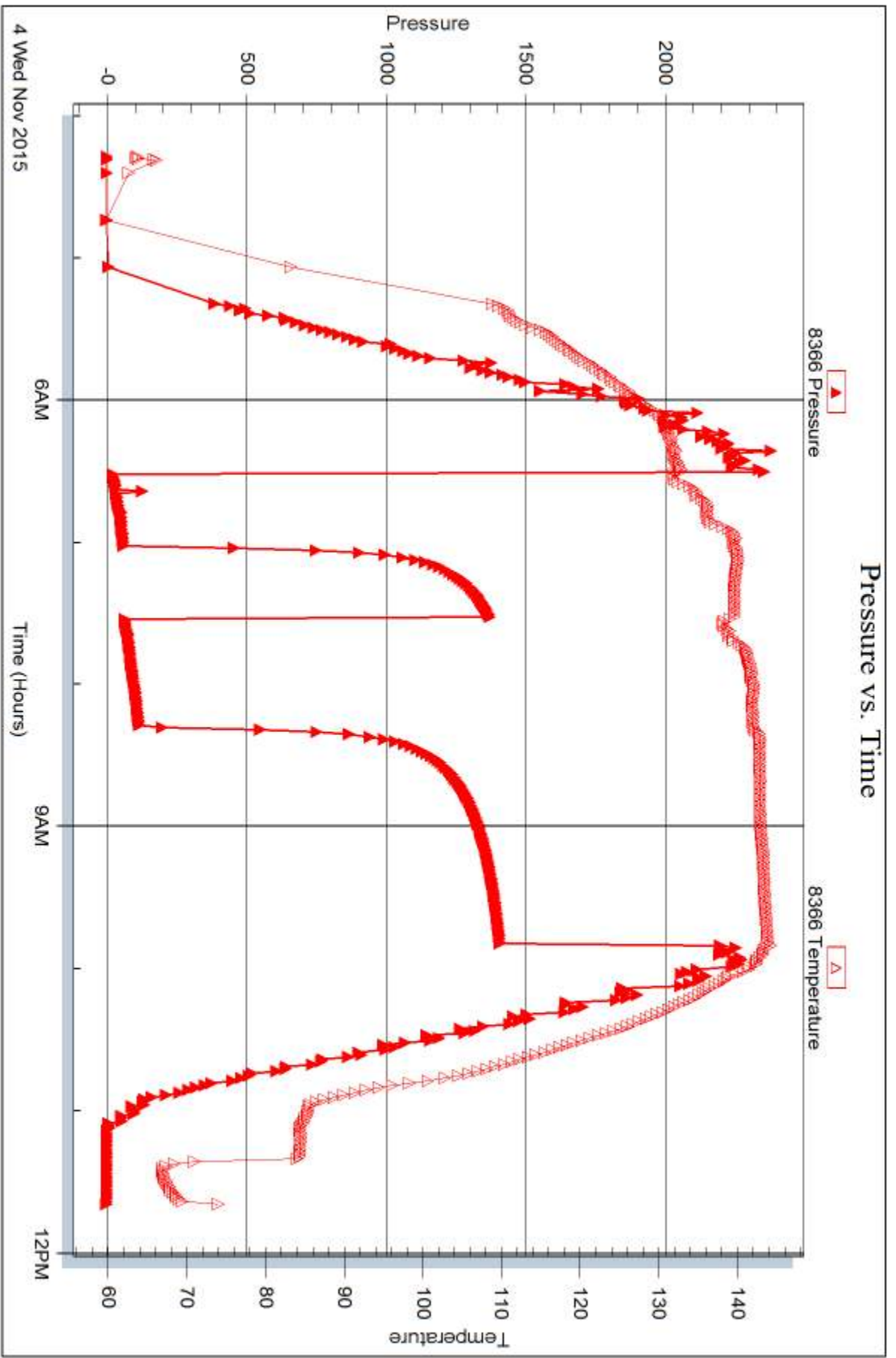
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Sout St STE 1500  
Denver, CO 80202

ATTN: Tim Lauer

**Rath Newman #24-33D**

**33-1s-41w Cheyenne,KS**

Start Date: 2015.11.06 @ 02:28:05

End Date: 2015.11.06 @ 10:01:44

Job Ticket #: 62855                      DST #: 5

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.11.09 @ 09:35:23

Coral Production Corp.

33-1s-41w Cheyenne,KS

Rath Newman #24-33D

DST # 5

Atoka

2015.11.06



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**33-1s-41w Cheyenne, KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

ATTN: Tim Lauer

Job Ticket: 62855

**DST#: 5**

Test Start: 2015.11.06 @ 02:28:05

## GENERAL INFORMATION:

Formation: **Atoka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:01:30

Time Test Ended: 10:01:44

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

**Interval: 5068.00 ft (KB) To 5122.00 ft (KB) (TVD)**

Reference Elevations: 3485.00 ft (KB)

Total Depth: 5122.00 ft (KB) (TVD)

3476.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6769**

**Inside**

Press@RunDepth: 1197.48 psig @ 5069.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.06

End Date:

2015.11.06

Last Calib.:

2015.11.06

Start Time:

02:28:05

End Time:

10:01:44

Time On Btm:

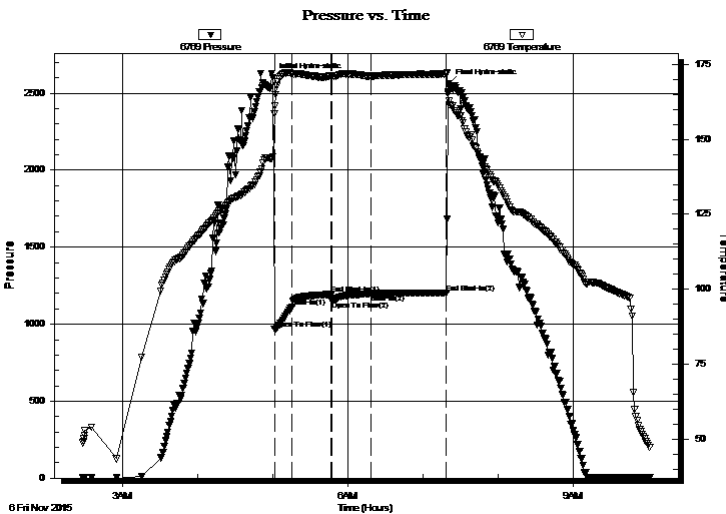
2015.11.06 @ 05:00:15

Time Off Btm:

2015.11.06 @ 07:20:44

**TEST COMMENT:** 15 - IF: Blow built to BOB (11") at 35 sec.  
30 - IS: No blow back  
30 - FF: Blow built to BOB at 1 3/4 min.  
60 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2600.00	144.32	Initial Hydro-static
2	968.70	161.10	Open To Flow (1)
16	1113.70	172.00	Shut-In(1)
47	1193.32	171.13	End Shut-In(1)
47	1147.37	170.84	Open To Flow (2)
78	1197.48	171.15	Shut-In(2)
139	1204.03	171.93	End Shut-In(2)
141	2560.49	162.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2075.00	SMCW 97%w, 3%m	29.11
250.00	MCW 92%w, 8%m	3.51
190.00	WCM 63%m, 37%w	2.67
140.00	Mud 100%	1.96

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

Job Ticket: 62855

**DST#: 5**

ATTN: Tim Lauer

Test Start: 2015.11.06 @ 02:28:05

## Tool Information

Drill Pipe:	Length: 5068.00 ft	Diameter: 3.80 inches	Volume: 71.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 71.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	5068.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5052.00	
Hydraulic tool	5.00			5057.00	
Change Over Sub	1.00			5058.00	
Packer - Shale	0.00			5058.00	
Packer	5.00			5063.00	21.00 Bottom Of Top Packer
Packer	5.00			5068.00	
Packer - Shale	0.00			5068.00	
Stubb	1.00			5069.00	
Recorder	0.00	6769	Inside	5069.00	
Recorder	0.00	8366	Outside	5069.00	
Perforations	17.00			5086.00	
Blank Spacing	33.00			5119.00	
Bullnose	3.00			5122.00	54.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corp.

**33-1s-41w Cheyenne,KS**

1600 Sout St STE 1500  
Denver, CO 80202

**Rath Newman #24-33D**

Job Ticket: 62855

**DST#: 5**

ATTN: Tim Lauer

Test Start: 2015.11.06 @ 02:28:05

## 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:

13000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2075.00	SMCW 97%w , 3%m	29.107
250.00	MCW 92%w , 8%m	3.507
190.00	WCM 63%m, 37%w	2.665
140.00	Mud 100%	1.964

Total Length: 2655.00 ft      Total Volume: 37.243 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

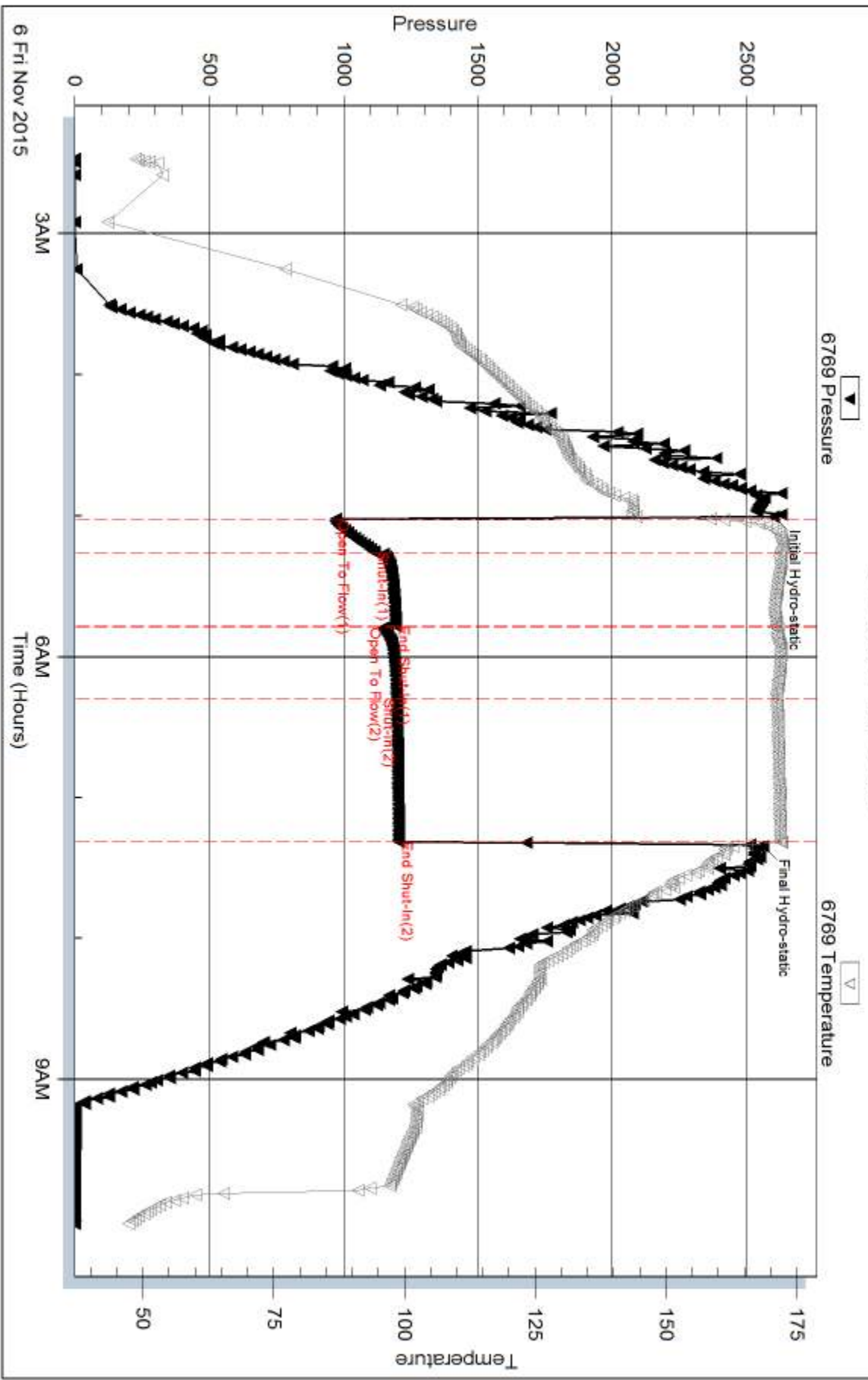
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .781 ohms @ 43.6 deg F Chlorides = 13,000 ppm

### Pressure vs. Time

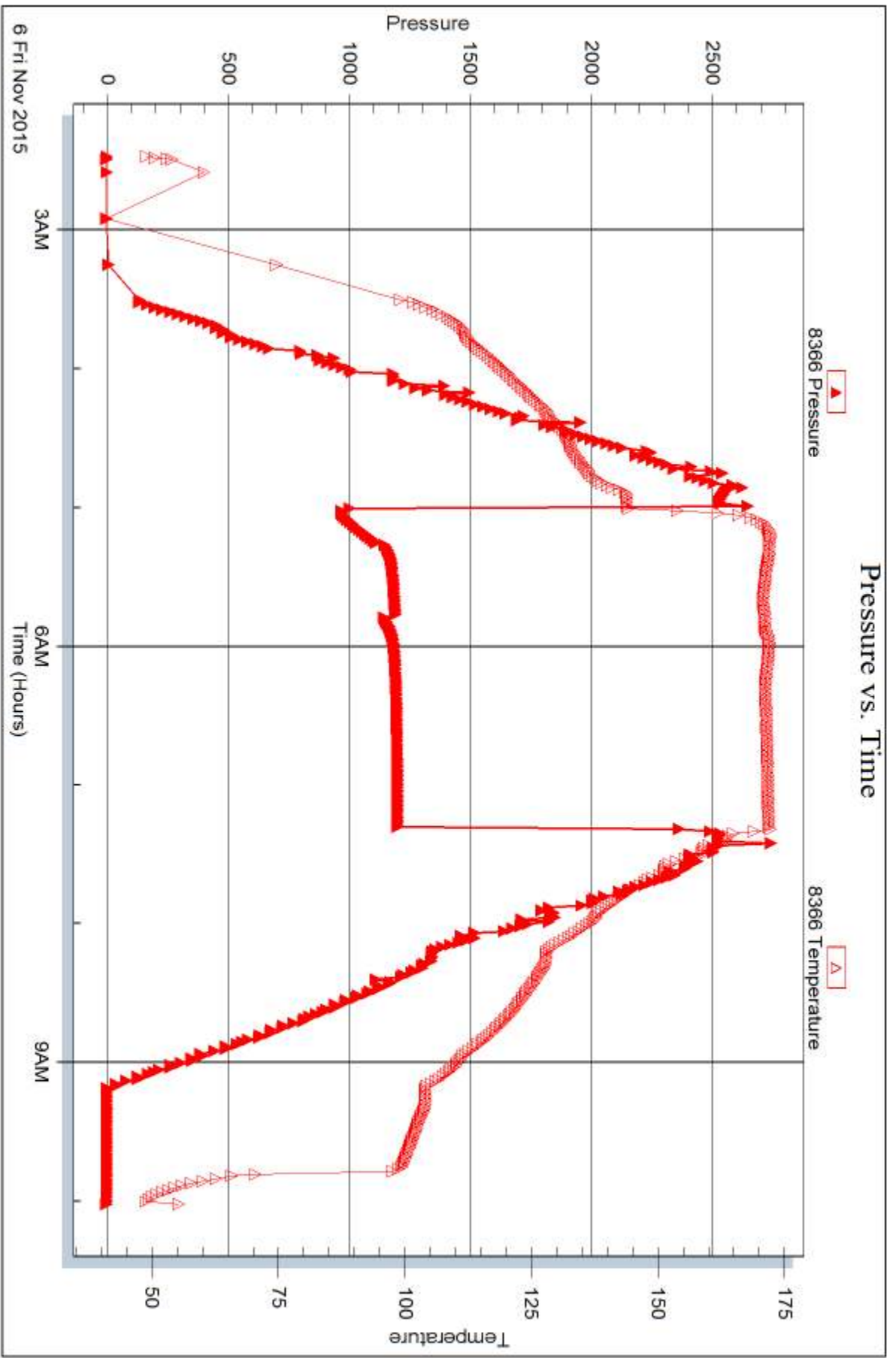


Serial #: 8366

Outside Coral Production Corp.

Rath New man #24-33D

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 62855

Printed: 2015.11.09 @ 09:35:25



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62851

Well Name & No. Rath Newman #24-330 Test No. 1 Date 10-31-15  
 Company Coral Production Corp Elevation 3485 KB 3476 GL  
 Address 1600 Stout St STE 1500 Denver CO 80202  
 Co. Rep / Geo. Tim Lauer Rig Duke #4  
 Location: Sec. 33 Twp. 15 Rge. 41w Co. Cheyenne State KS

Interval Tested 4093-4170 Zone Tested Tarkio  
 Anchor Length 77 Drill Pipe Run 4088 Mud Wt. 9.0  
 Top Packer Depth 4088 (shale) Drill Collars Run - Vis 56  
 Bottom Packer Depth 4093 (shale) Wt. Pipe Run - WL 9.4  
 Total Depth 4170 Chlorides 700 ppm System LCM 4

Blow Description IF: Blow built to 1/2" at 20 min, slowly died back to just over 1/4"  
ISI: No blowback  
FF: No blow  
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud w/trace of oil</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 132 Gravity 1150 API RW @ °F Chlorides ppm  
 (A) Initial Hydrostatic 2147  Test 1150 T-On Location 9:15  
 (B) First Initial Flow 14  Jars \_\_\_\_\_ T-Started 11:50  
 (C) First Final Flow 14  Safety Joint \_\_\_\_\_ T-Open 13:57  
 (D) Initial Shut-In 48  Circ Sub \_\_\_\_\_ T-Pulled 16:24  
 (E) Second Initial Flow 12  Hourly Standby \_\_\_\_\_ T-Out 18:15  
 (F) Second Final Flow 12  Mileage 176RT Comments \_\_\_\_\_  
 (G) Final Shut-In 51  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2026  Straddle \_\_\_\_\_  
 Shale Packer X2 500  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Day Standby \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Accessibility \_\_\_\_\_ Total 1826  
 Final Flow 30  MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60

Approved By Tim J. Lauer Our Representative James Winder  
 TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62852

Well Name & No. Rath Newman #24-33D Test No. 2 Date 11-1-15  
 Company Coral Production Corp Elevation 3485 KB 3476 GL  
 Address 1600 Stout St. STE 1500 Denver CO 80202  
 Co. Rep / Geo. Tim Lauer Rig Duke #4  
 Location: Sec. 33 Twp. 15 Rge. 4/W Co. Cheyenne State KS

Interval Tested 4238 - 4340 Zone Tested Lower Topeka - Oread  
 Anchor Length 102 Drill Pipe Run 4249 Mud Wt. 9.0  
 Top Packer Depth 4233 (shale) Drill Collars Run - Vis 56  
 Bottom Packer Depth 4238 (shale) Wt. Pipe Run - WL 9.4  
 Total Depth 4340 Chlorides 700 ppm System LCM 4

Blow Description IF: Blow built to 13/4"  
ISI: No blowback  
FF: Blow started at 28 min., built to just over 1/4"  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>MCW</u>		<u>82</u>	<u>18</u>	
	<u>Show of oil in tool</u>				

Rec Total 45 BHT 139 Gravity API RW 1.047 @ 61.4 °F Chlorides 7500 ppm  
 (A) Initial Hydrostatic 2159  Test 1150 T-On Location 11:00  
 (B) First Initial Flow 18  Jars \_\_\_\_\_ T-Started 11:31  
 (C) First Final Flow 23  Safety Joint \_\_\_\_\_ T-Open 13:20  
 (D) Initial Shut-In 1408  Circ Sub \_\_\_\_\_ T-Pulled 16:36  
 (E) Second Initial Flow 25  Hourly Standby \_\_\_\_\_ T-Out 19:30  
 (F) Second Final Flow 35  Mileage 176 RT Comments tool drop coming  
 (G) Final Shut-In 1468  Sampler \_\_\_\_\_ out of hole (worked it  
 (H) Final Hydrostatic 1988  Straddle \_\_\_\_\_ on way out)  
 Ruined Shale Packer 350  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 350  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 2176  
 Final Shut-In 90  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1826

Approved By [Signature] Our Representative [Signature]  
 TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62853

Well Name & No. Rath Newman #24-33D Test No. 3 Date 11-2-15  
 Company Coral Production Corp. Elevation 3485 KB 3476 GL  
 Address 1600 Stout St STE 1500 Denver, CO 80202  
 Co. Rep / Geo. Tim Lauer Rig Duke #4  
 Location: Sec. 33 Twp. 1S Rge. 41W Co. Cheyenne State KS

Interval Tested 4350-4505 Zone Tested LKC "A-D"  
 Anchor Length ~~149~~ 155 Drill Pipe Run 4345 Mud Wt. 9.3  
 Top Packer Depth 4345 ~~4351~~ (shale) Drill Collars Run - Vis 47  
 Bottom Packer Depth 4350 ~~4356~~ (shale) Wt. Pipe Run - WL 9.0  
 Total Depth 4505 Chlorides 700 ppm System LCM 3

Blow Description IF: 1/4" Blow at open, built to just over 1", died back to weak surface blow  
ISI: No blowback  
FF: No blow  
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>6</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 6 BHT 144 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2301  Test 1150 T-On Location 12:15 / 16:45  
 (B) First Initial Flow 21  Jars \_\_\_\_\_ T-Started ~~17:57~~  
 (C) First Final Flow 22  Safety Joint \_\_\_\_\_ T-Open 19:38  
 (D) Initial Shut-In 170  Circ Sub \_\_\_\_\_ T-Pulled 22:56  
 (E) Second Initial Flow 20  Hourly Standby \_\_\_\_\_ T-Out 00:50 1/3  
 (F) Second Final Flow 19  Mileage 176 RTx2 +176 Comments Rig broke down - went  
 (G) Final Shut-In 231  Sampler \_\_\_\_\_ back to town  
 (H) Final Hydrostatic 2213  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2002 MP/DST Disc't \_\_\_\_\_  
 Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 90

Approved By Tim J. Lauer Our Representative James Winder  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62854

Well Name & No. Rath Newman #24-33D Test No. 41 Date 11-4-15  
 Company Coral Production Corp Elevation 3485 KB 3476 GL  
 Address 1600 Stout St STE 1500 Denver CO 80202  
 Co. Rep / Geo. Tim Lauer Rig Duke #4  
 Location: Sec. 33 Twp. 1S Rge. 41W Co. Cheyenne State KS

Interval Tested 4540 - 4725 Zone Tested Lans. "6-L"  
 Anchor Length 185 Drill Pipe Run 4535 Mud Wt. 9.4  
 Top Packer Depth 4535 (shale) Drill Collars Run - Vis 50  
 Bottom Packer Depth 4540 (shale) Wt. Pipe Run - WL 8.8  
 Total Depth 4725 Chlorides 750 ppm System LCM 4

Blow Description IF: Blow built to 7'4"  
ISI: No blowback  
FF: Blow built to 6'1/2"  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>Mud w/oil spots</u>	<u>2</u>	<u>24</u>	<u>98</u>	
<u>125</u>	<u>WCM w/oil spots</u>	<u>3</u>	<u>3</u>	<u>70</u>	

Rec Total 215 BHT 143 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2362  Test 1150 T-On Location 4:00  
 (B) First Initial Flow 21  Jars \_\_\_\_\_ T-Started 4:17  
 (C) First Final Flow 61  Safety Joint \_\_\_\_\_ T-Open 6:31  
 (D) Initial Shut-In 1376  Circ Sub \_\_\_\_\_ T-Pulled 9:49  
 (E) Second Initial Flow 65  Hourly Standby \_\_\_\_\_ T-Out 11:35  
 (F) Second Final Flow 117  Mileage 176 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 1413  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2270  Straddle \_\_\_\_\_

Shale Packer x2 500  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby ? Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1826  
 Sub Total 1826 MP/DST Disc't \_\_\_\_\_

Approved By Tim Lauer Our Representative James Winder  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62855

Well Name & No. Rath Newman #24-33D Test No. 5 Date 11/6/15  
 Company Coral Production Corp Elevation 3485 KB 3476 GL  
 Address 1600 Stout St. STE 1500 Denver CO 80202  
 Co. Rep / Geo. Tim Lauer Rig Duke #4  
 Location: Sec. 33 Twp. 1S Rge. 41W Co. Cheyenne State KS

Interval Tested 5068 - 5122 Zone Tested Atoka  
 Anchor Length 54 Drill Pipe Run 5068 Mud Wt. 9.4  
 Top Packer Depth 5063 (shale) Drill Collars Run - Vis 62  
 Bottom Packer Depth 5068 (shale) Wt. Pipe Run - WL 8.8  
 Total Depth 5122 Chlorides 500 ppm System LCM 1

Blow Description IF: Blow built to BOB (11") at 35 sec.  
ISI: No blowback  
FF: Blow built to BOB at 1 3/4 min  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>mud</u>				<u>100</u>
<u>190</u>	<u>WCM</u>				
<u>250</u>	<u>MCLW</u>				
<u>2075</u>	<u>SMCW</u>				

Rec Total 2655 BHT 172 Gravity \_\_\_\_\_ API RW .781 @ 43.6 °F Chlorides 13000 ppm

(A) Initial Hydrostatic 2600  Test 1250 T-On Location 1:40  
 (B) First Initial Flow 969  Jars \_\_\_\_\_ T-Started 2:28  
 (C) First Final Flow 1114  Safety Joint \_\_\_\_\_ T-Open 5:01  
 (D) Initial Shut-In 1193  Circ Sub \_\_\_\_\_ T-Pulled 7:18  
 (E) Second Initial Flow 1147  Hourly Standby \_\_\_\_\_ T-Out 10:00  
 (F) Second Final Flow 1197  Mileage 176 RTx2 +176 Comments \_\_\_\_\_  
 (G) Final Shut-In 1204  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2560  Straddle \_\_\_\_\_  
 Shale Packer X2 500  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby 1.5d 2h Sub Total 66.67  
 Accessibility \_\_\_\_\_ Total 2068.67  
 Sub Total 2002 MP/DST Disc't \_\_\_\_\_

Approved By Tim J. Lauer Our Representative James Winder  
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