

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1270848  
OIL & GAS CONSERVATION DIVISION



Form ACO-1  
November 2016

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or  
Recompletion Date \_\_\_\_\_ Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_

(e.g. xx.xxxxx)

(e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1270848



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Coral Production Corporation
Well Name	RATH-NEWMAN 24-33D
Doc ID	1270848

All Electric Logs Run

DIL
CDL/CNL/PE
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Coral Production Corporation
Well Name	RATH-NEWMAN 24-33D
Doc ID	1270848

Tops

Name	Top	Datum
ANHYDRITE	3453	+32
TOPEKA	4213	-728
LANSING	4393	-908
STARK	4632	-1147
MARMATON	4786	-1301
CHEROKEE SH	4899	-1414
MORROW SH	5089	-1604
MISS	5227	-1742
ARBUCKLE	5354	-1869





## 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

Coral Production Corp.

33-1s-41w Cheyenne,KS

Rath Newman #24-33D

DST # 1  
Tarkio

2015.10.31



**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:

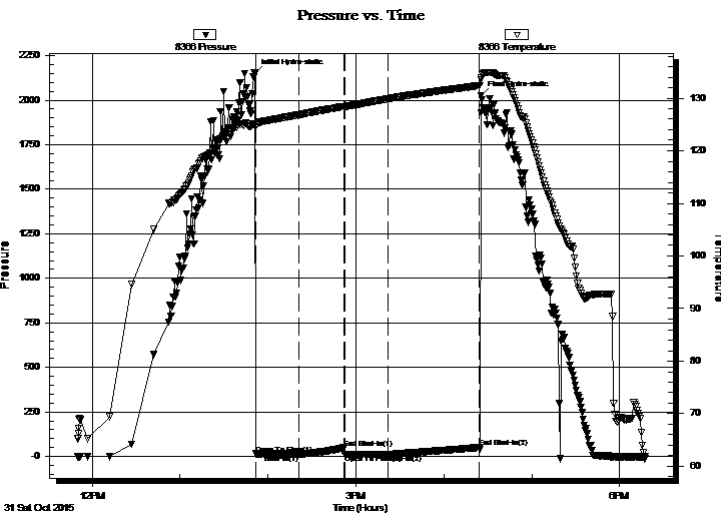
2015.10.31 @ 16:25:30

**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)



**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: 62851

**DST#: 1**

ATTN: Tim Lauer

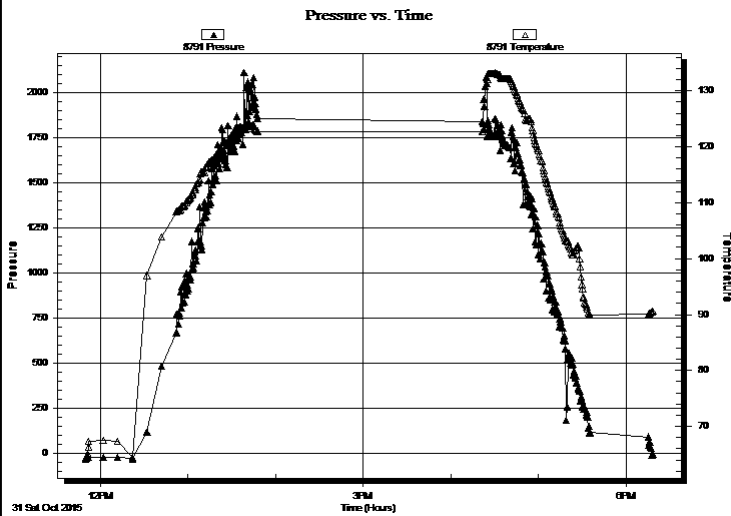
Test Start: 2015.10.31 @ 11:50:00

**GENERAL INFORMATION:**

**Formation:** Tarkio  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:51:30  
 Time Test Ended: 18:17:30  
**Interval:** 4093.00 ft (KB) To 4170.00 ft (KB) (TVD)  
 Total Depth: 4170.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Winder  
 Unit No: 83  
 Reference Elevations: 3485.00 ft (KB)  
 3476.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8791** Inside  
 Press@RunDepth: 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: 18:17:59 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 - IF: Blow built to 1/2" at 20 min., slowly died back to just over 1/4"  
 30 - IS: No blow back  
 30 - FF: No blow  
 60 - FS: No blow



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

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

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

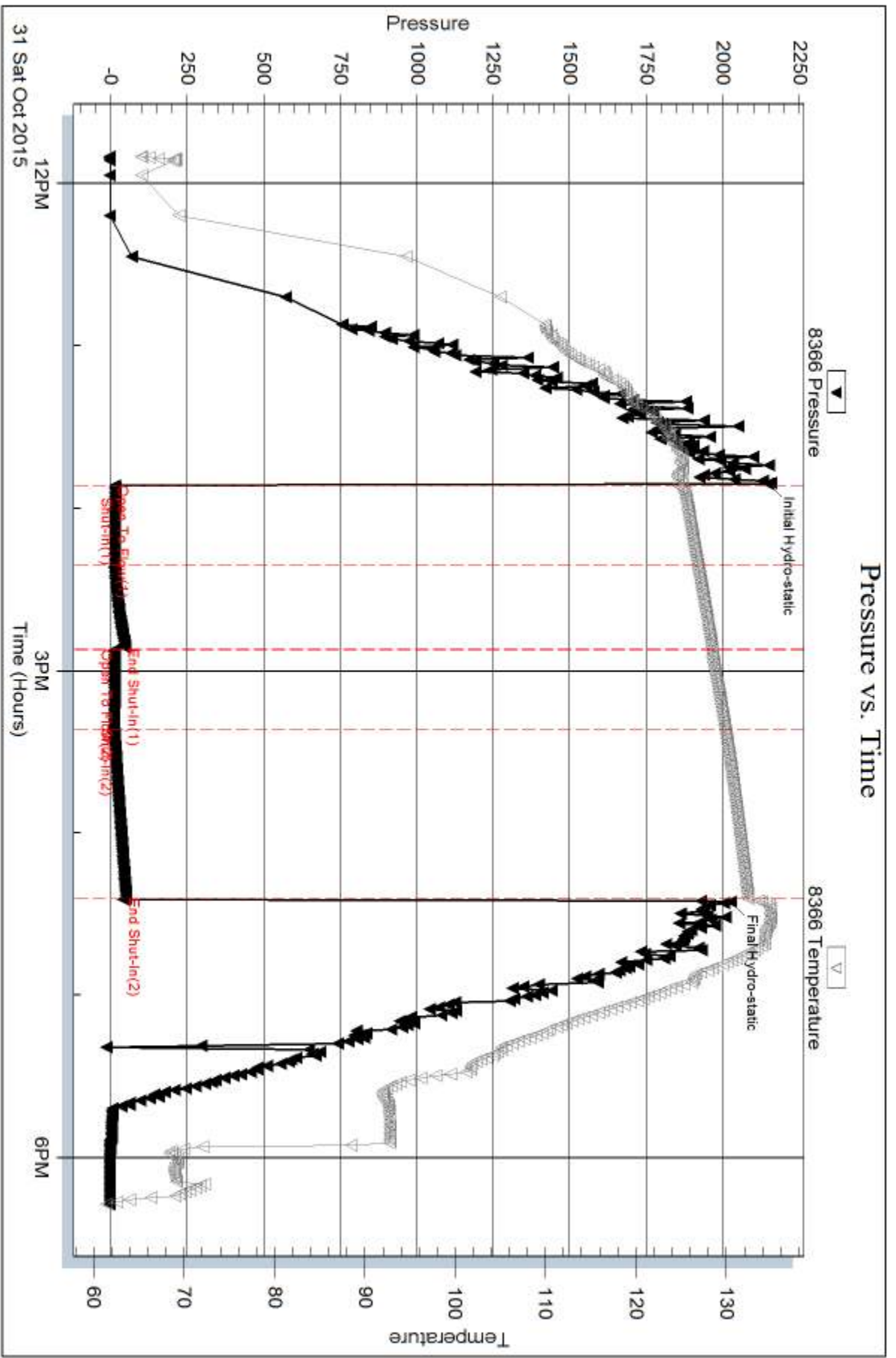
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



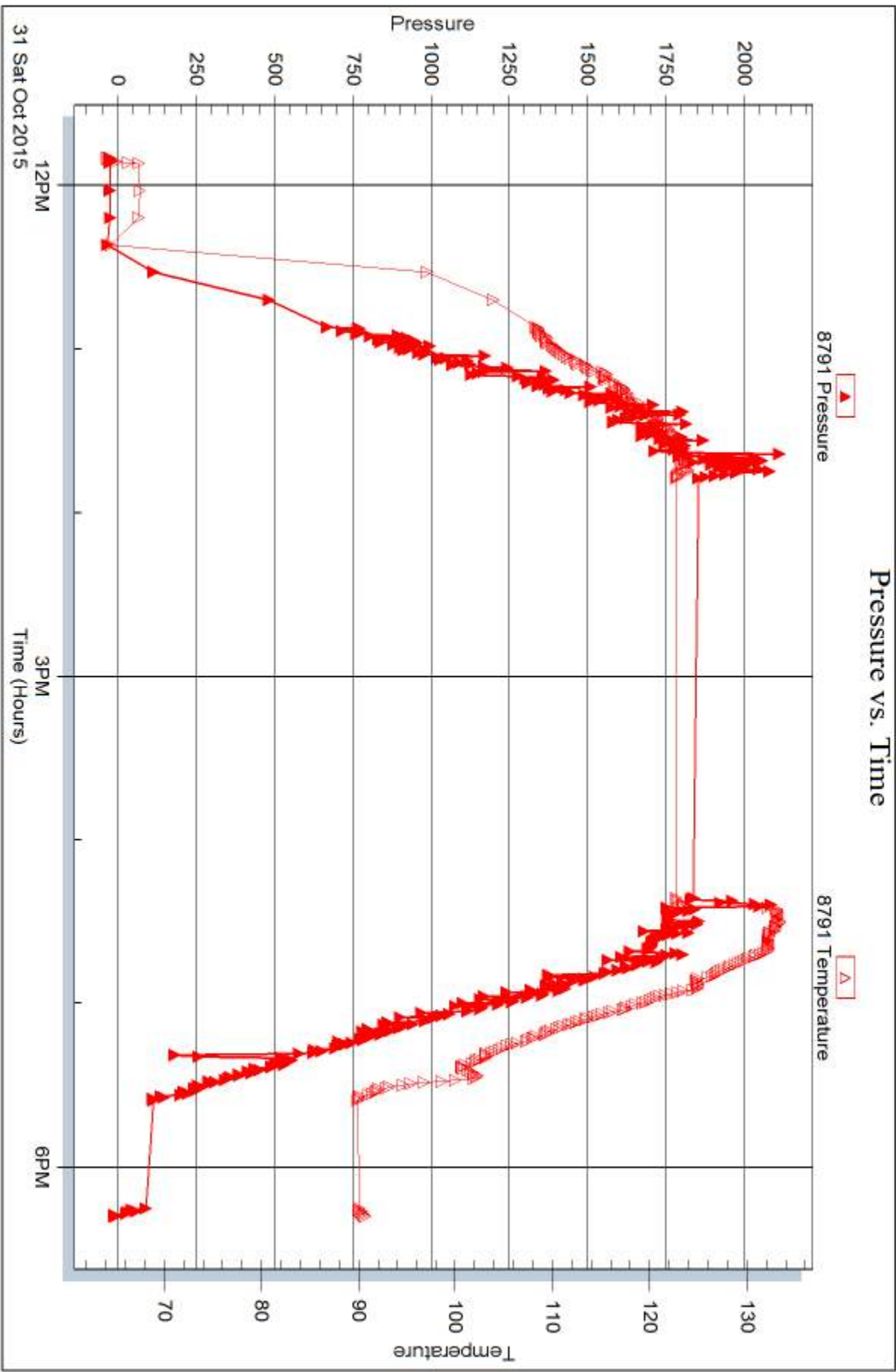
Serial #: 8791

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:

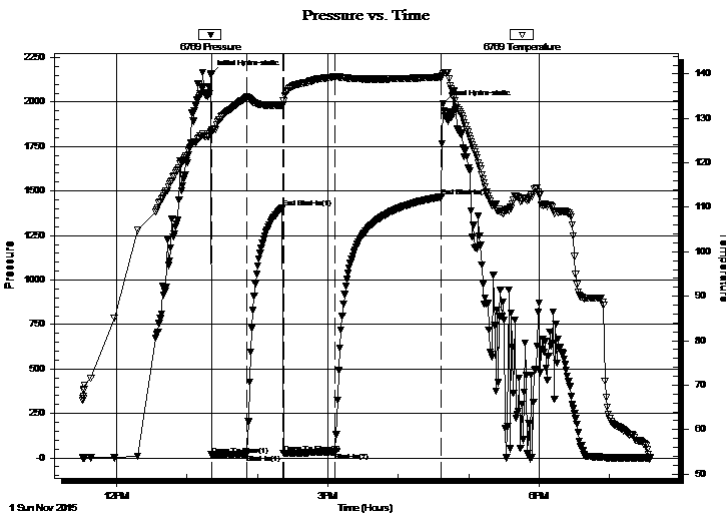
2015.11.01 @ 13:20:30

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

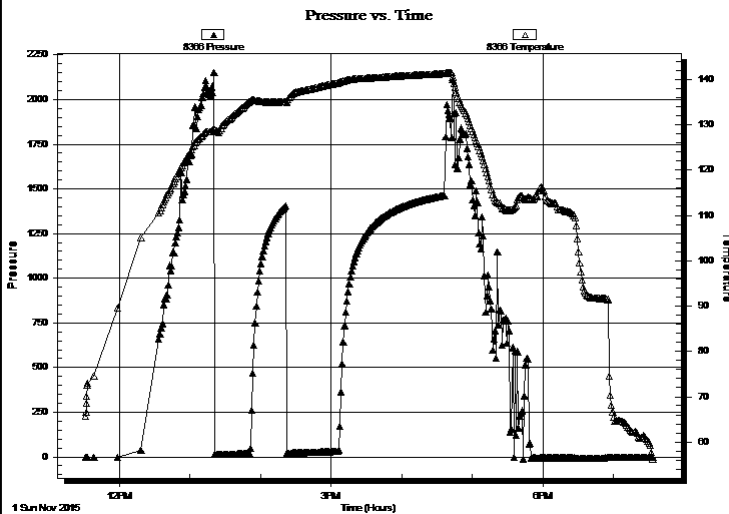
**33-1s-41w Cheyenne,KS**  
**Rath Newman #24-33D**  
 Job Ticket: 62852 **DST#: 2**  
 Test Start: 2015.11.01 @ 11:31:00

**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 - FS!: 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
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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:

bbbl

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

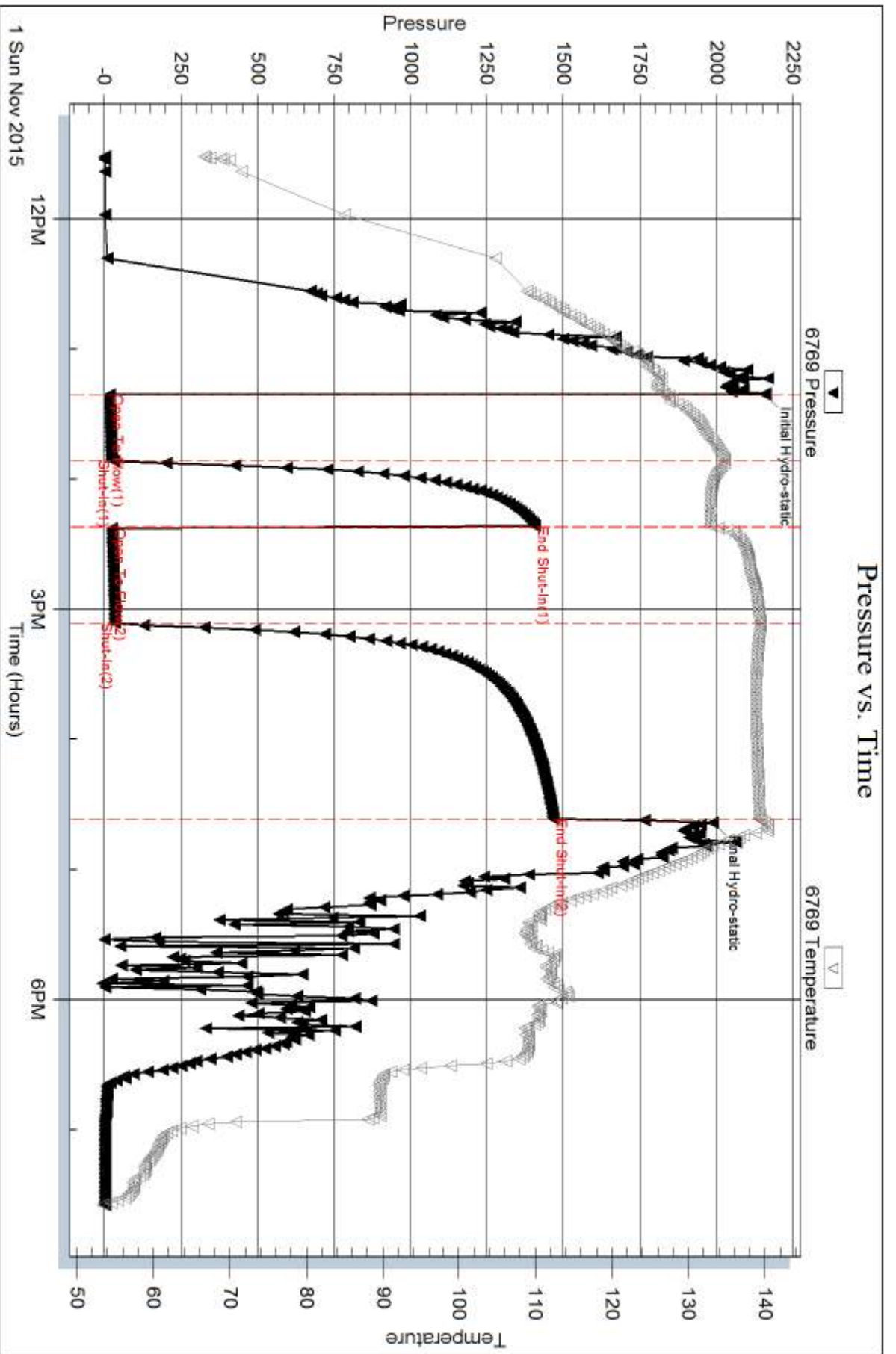
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

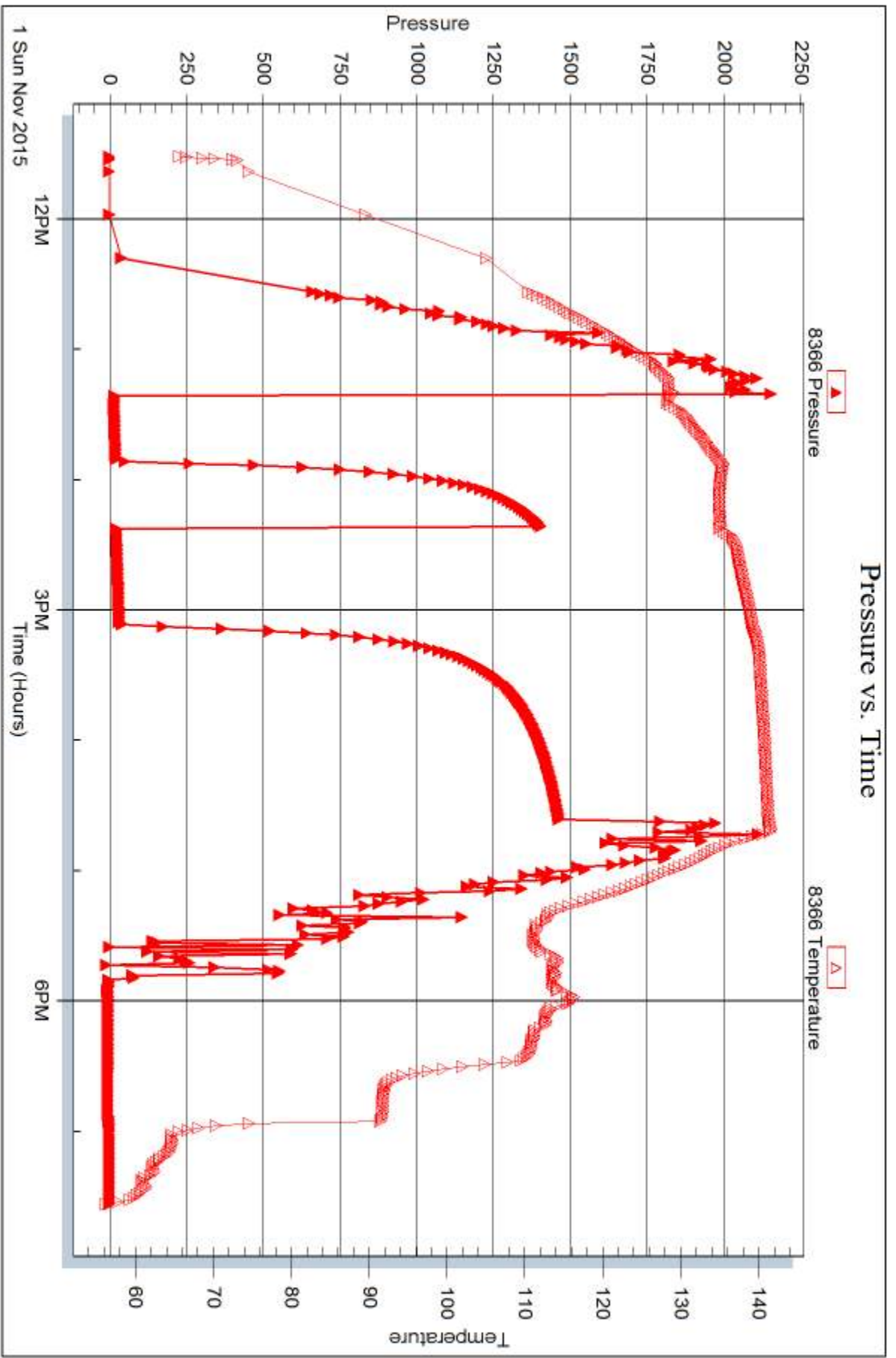


Serial #: 8366

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

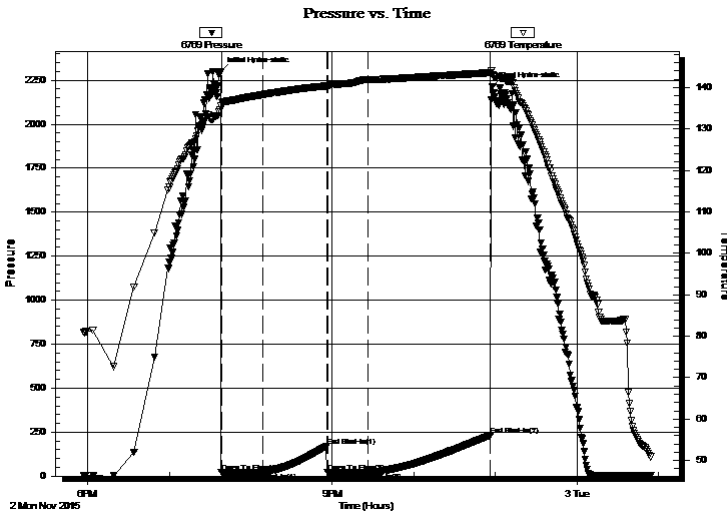
**TEST COMMENT:** 30 - IF: 1/4" Blow at open, built to just over 1", died back to weak surface blow

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

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

\* 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: 62853 **DST#: 3**

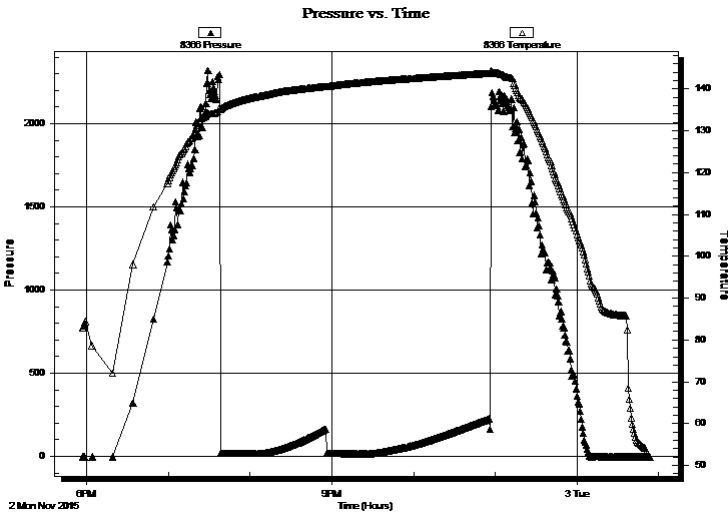
Test Start: 2015.11.02 @ 17:57:00

**GENERAL INFORMATION:**

Formation: **LKC "A - D"**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: 19:38:15 Tester: **James Winder**  
 Time Test Ended: 00:54:30 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**

**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



**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

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

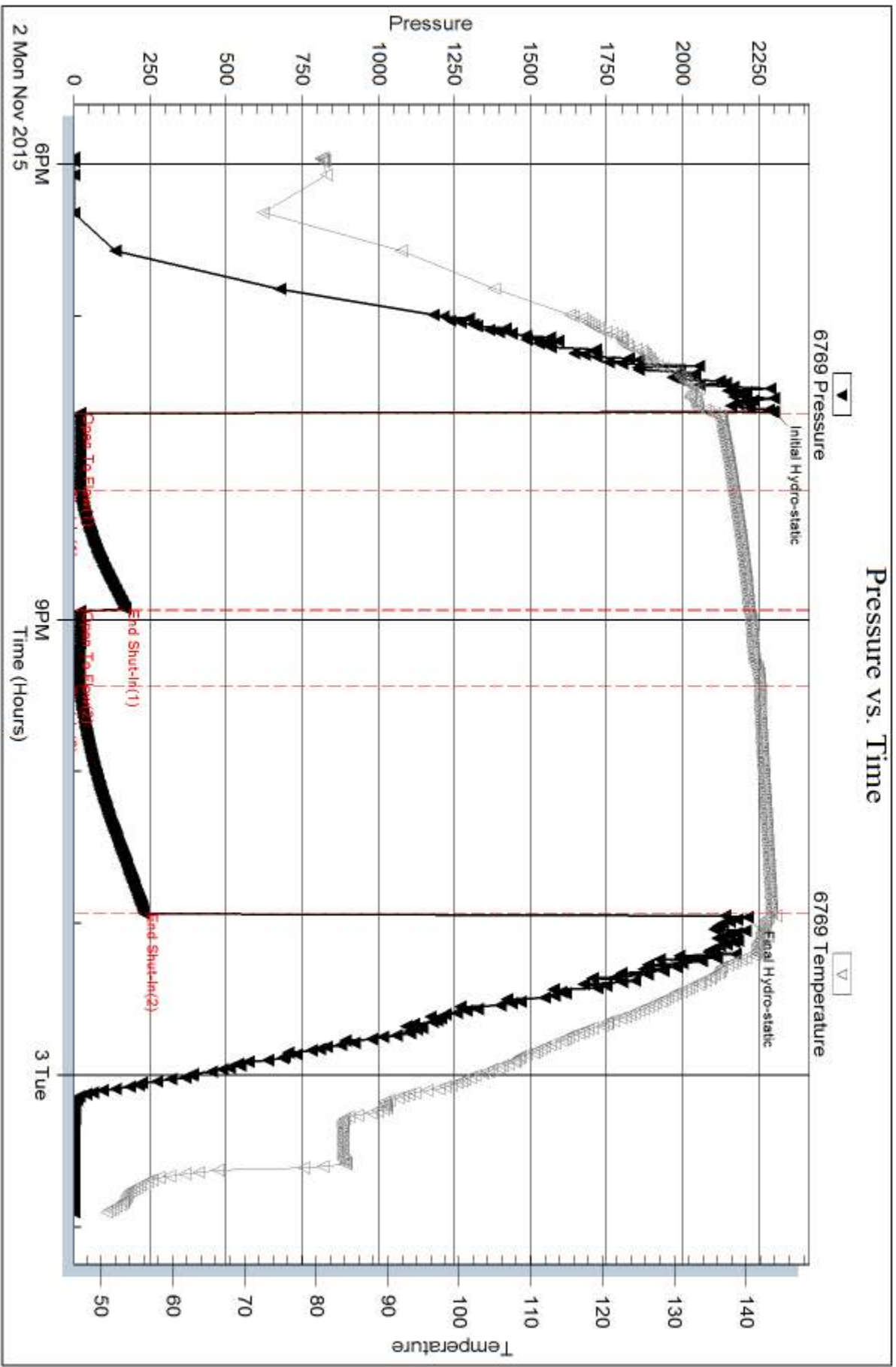
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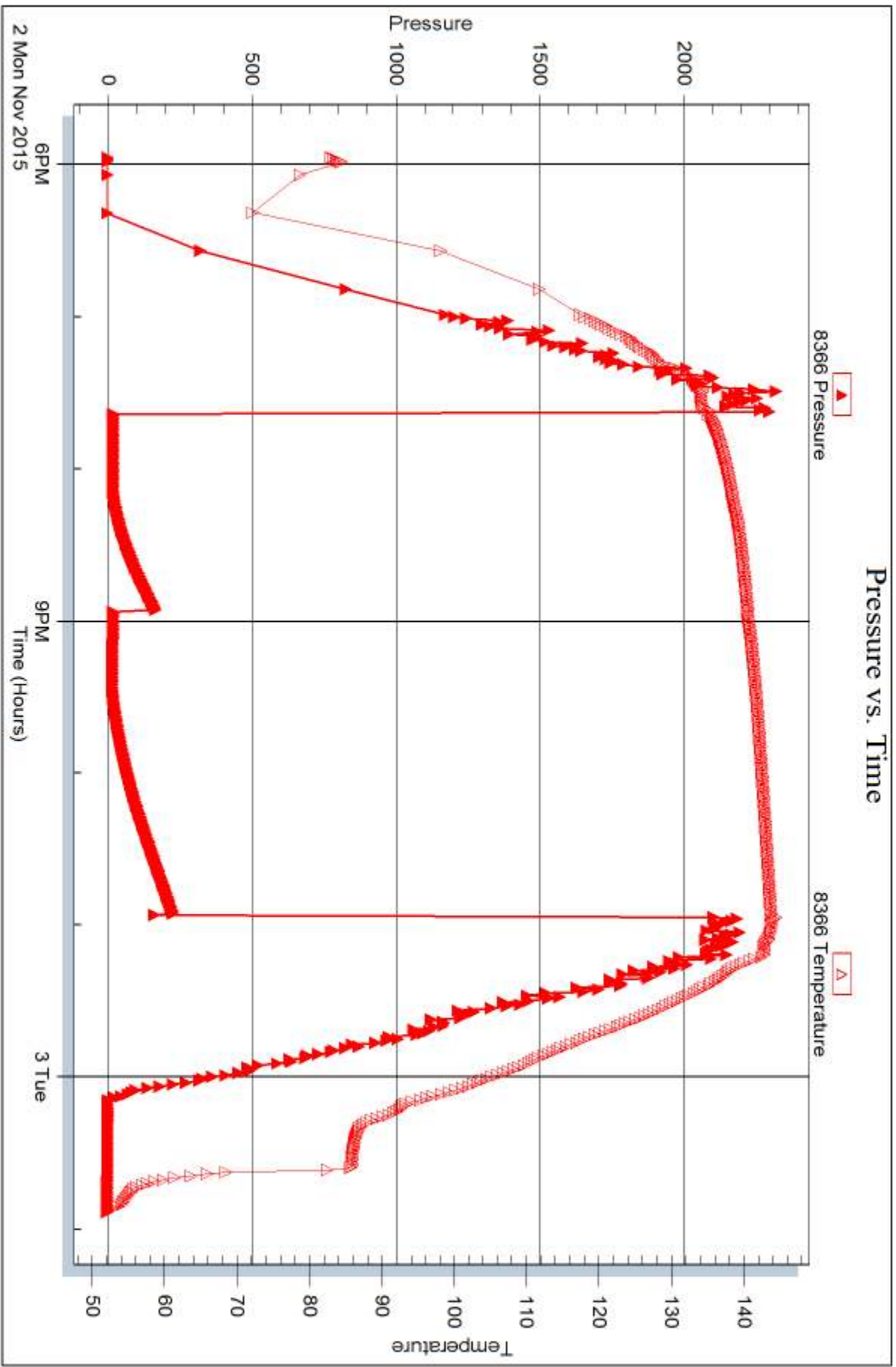
Laboratory Name:

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: 2015.11.04 @ 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.  
 1600 Sout St STE 1500  
 Denver, CO 80202  
 ATTN: Tim Lauer

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

**Rath Newman #24-33D**

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

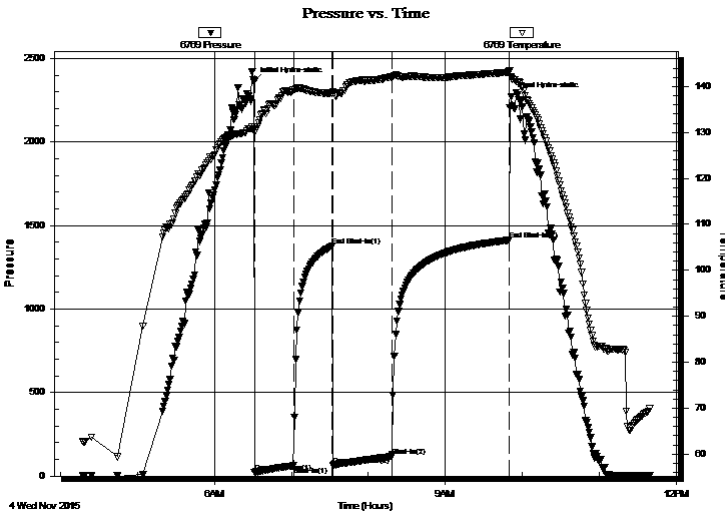
## Serial #: 6769

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 - IS: 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
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

\* 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

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

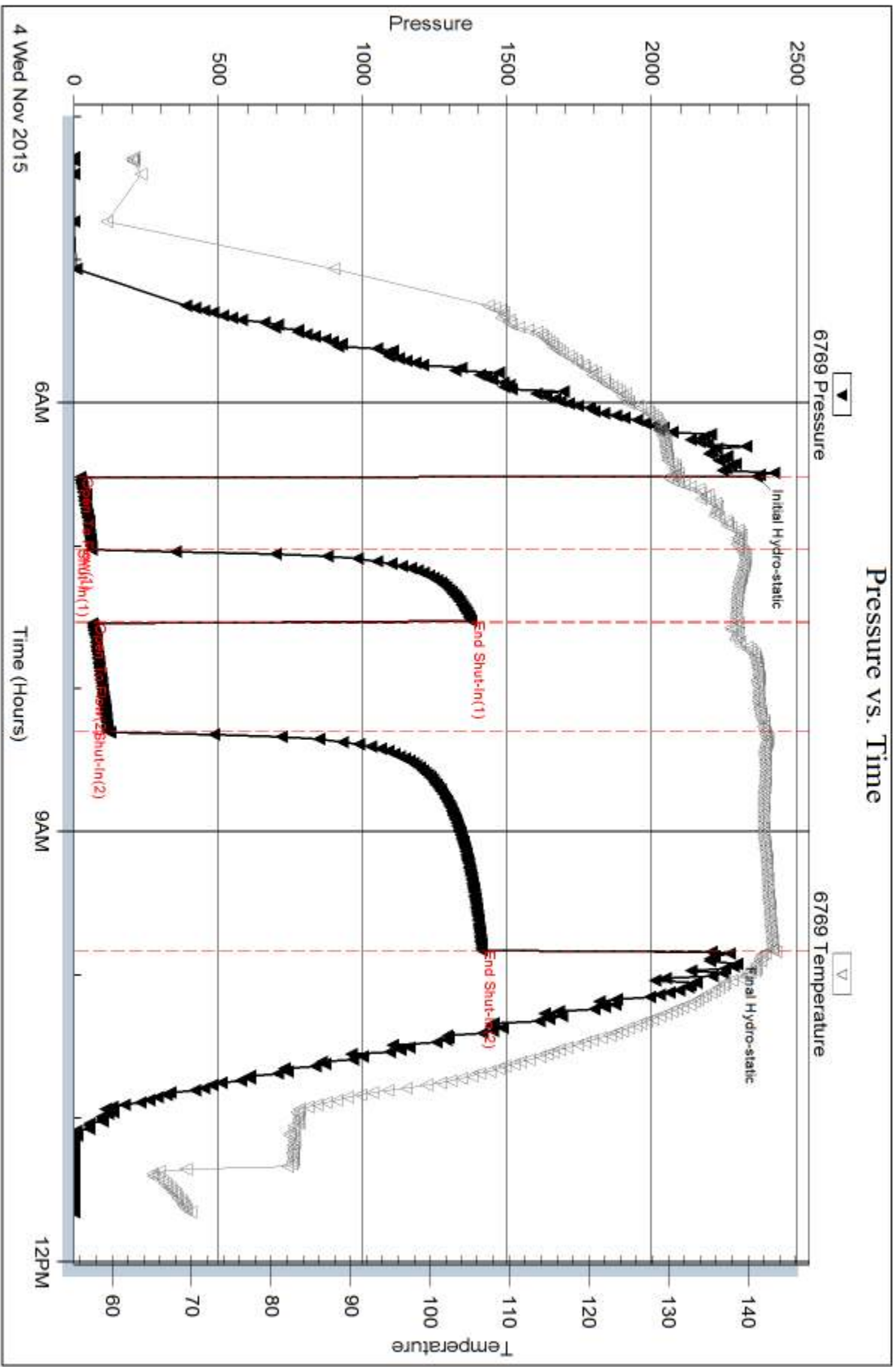
Num Gas Bombs: 0

Serial #:

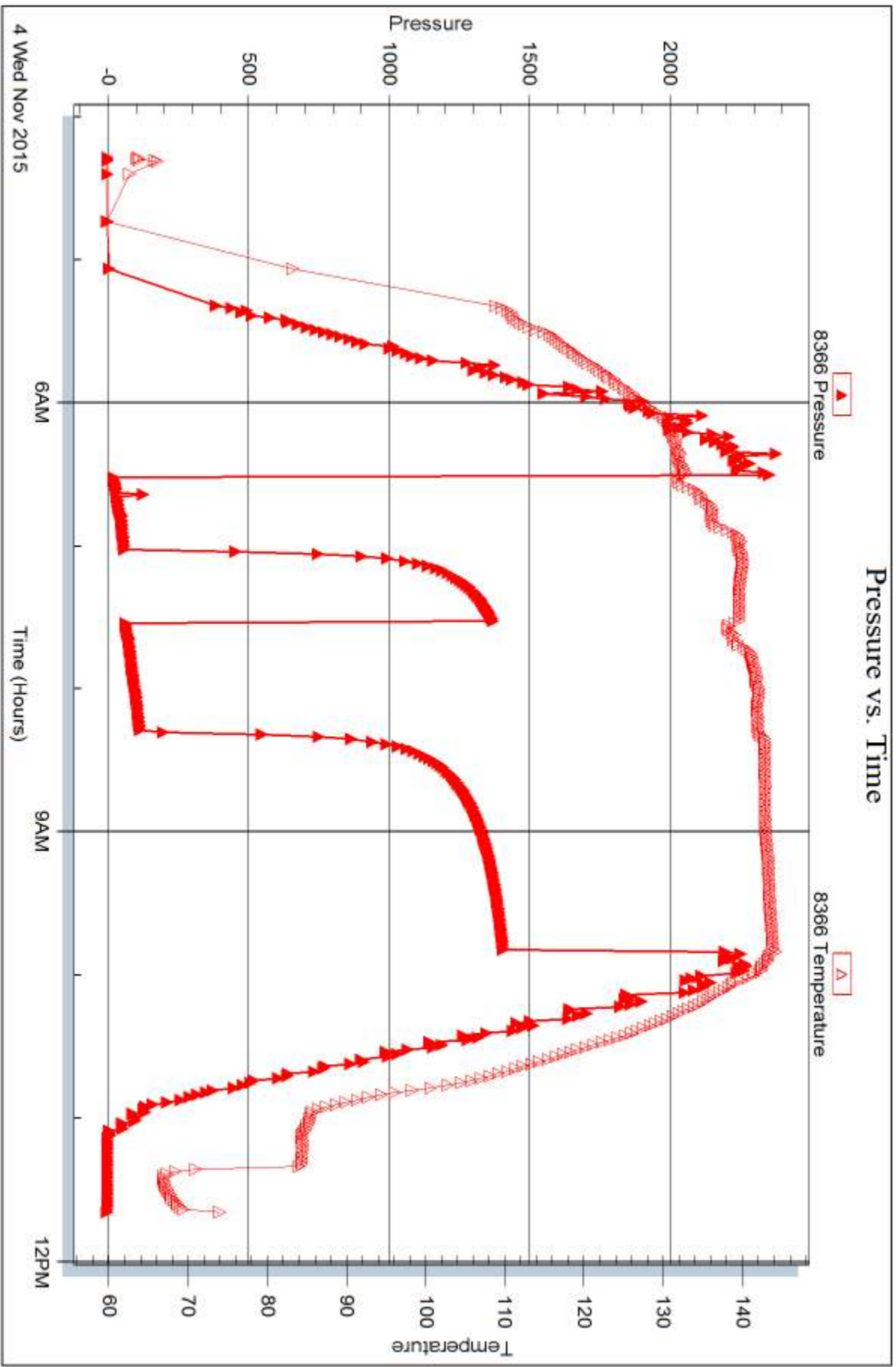
Laboratory Name:

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

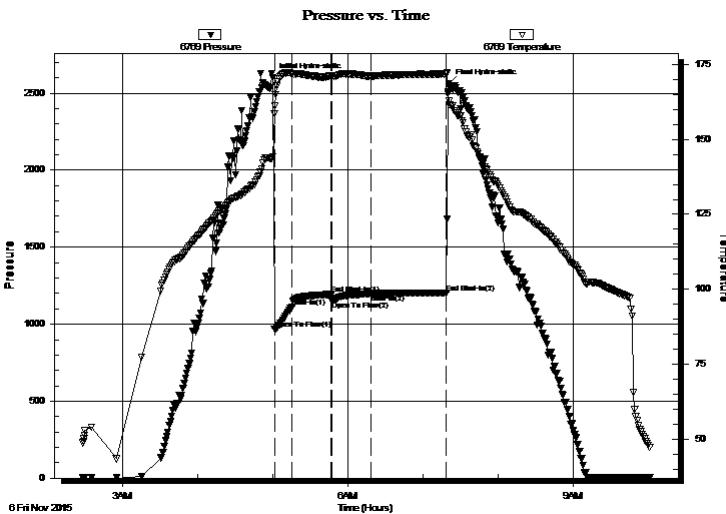
**TEST COMMENT:** 15 - IF: Blow built to BOB (11") at 35 sec.

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

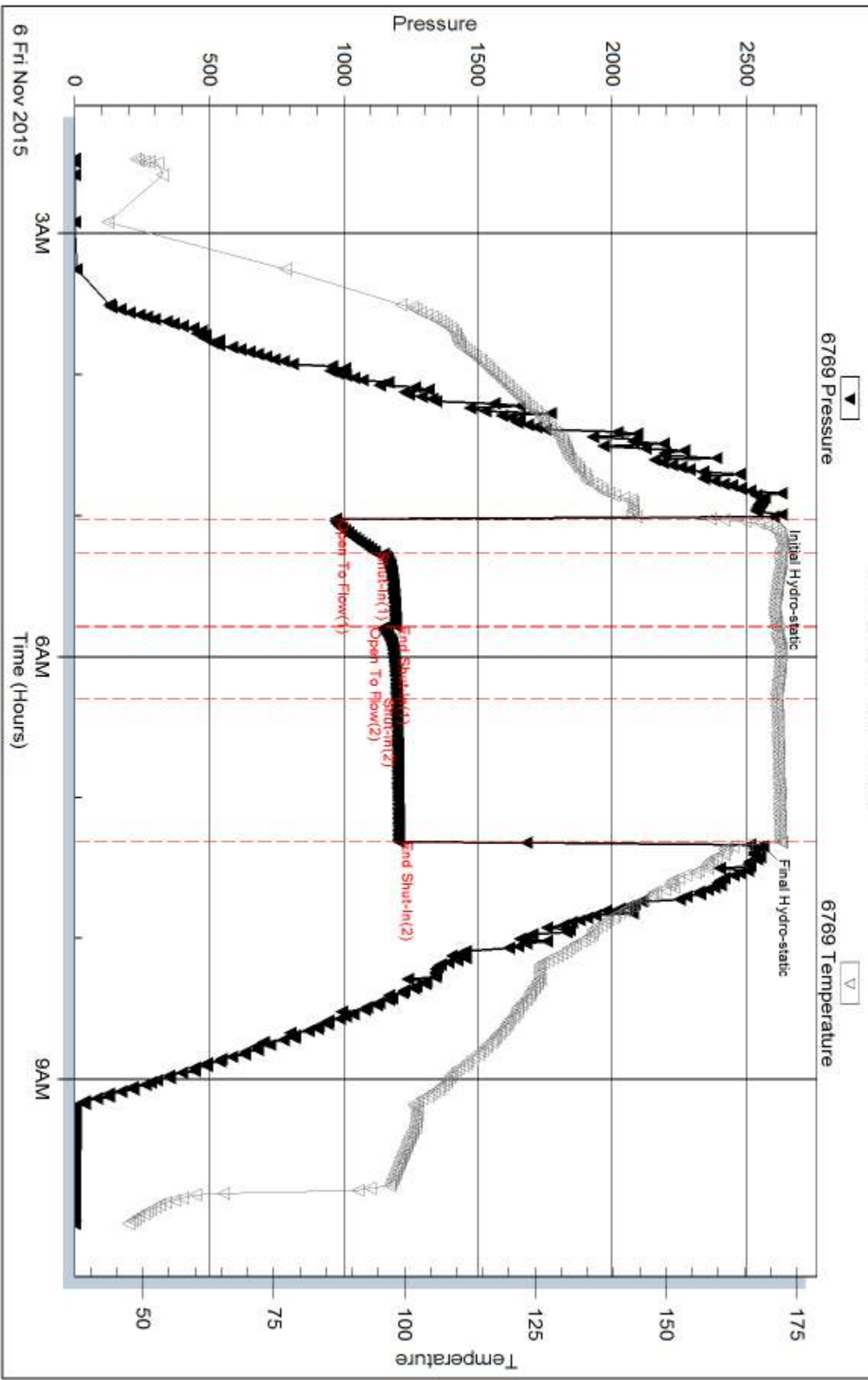
Serial #:

Laboratory Name:

Laboratory Location:

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

### Pressure vs. Time

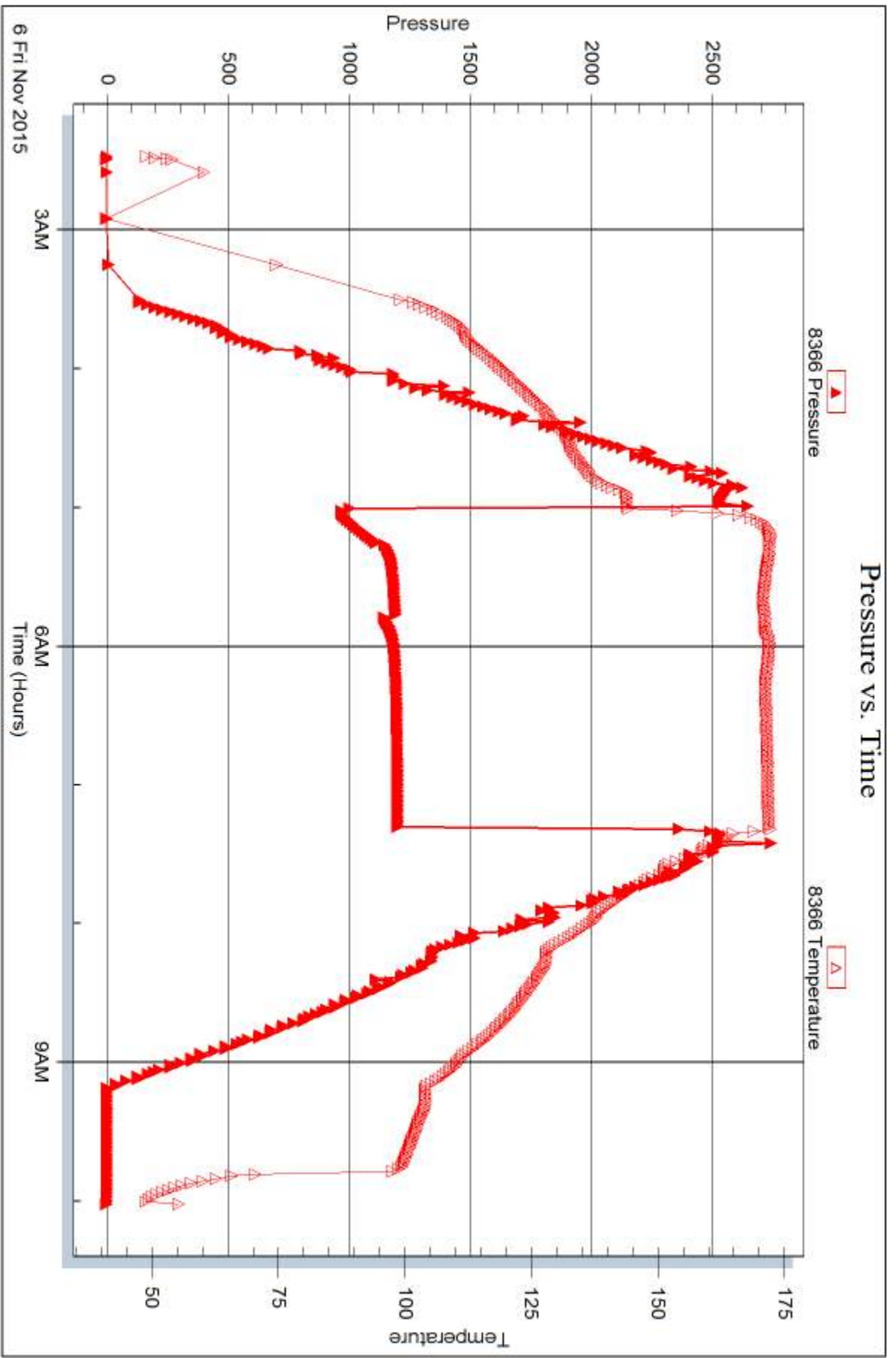


Serial #: 8366

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 Sub Total 1826 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

Initial Open 30  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Copies \_\_\_\_\_  
 Final Flow 45 Sub Total 350  
 Final Shut-In 90 Total 2176  
 Sub Total 1826 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]

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# 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 \_\_\_\_\_

Approved By Tim J. Lauer Our Representative James Winder

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# 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>37</u>	<u>63</u>	
<u>250</u>	<u>MCLW</u>		<u>92</u>	<u>8</u>	
<u>2075</u>	<u>SMCW</u>		<u>97</u>	<u>3</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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# ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067860

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Oakley

DATE <u>11-7-15</u>	SEC. <u>33</u>	TWP. <u>1</u>	RANGE <u>41</u>	CALLED OUT	ON LOCATION <u>8:00pm</u>	JOB START <u>9:00 Am</u>	JOB FINISH <u>12:00 Am</u>
ROTH NEWMAN LEASE		WELL# <u>24-33D</u>	LOCATION <u>ST Francis N TO V 1/2 N E 45 into</u>			COUNTY <u>Cheyenne</u>	STATE <u>WY</u>
OLD OR NEW (Circle one)							

CONTRACTOR Duke 4

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 5425'

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 DEPTH 5334

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER same

CEMENT AMOUNT ORDERED 290 sks 60/40 4% gel

14 Flo-seal

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Fairland

# 422 HELPER Wayne

BULK TRUCK DRIVER Cory Brown

# 890 DRIVER \_\_\_\_\_

BULK TRUCK DRIVER \_\_\_\_\_

COMMON	@	_____
POZMIX	@	_____
GEL	@	_____
CHLORIDE	@	_____
ASC	@	_____
<u>60/40 4% gel 290 sks</u>	@	<u>18.92 5481.80</u>
<u>Flo-seal 72.5 #</u>	@	<u>2.97 215.72</u>
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL 5,702.12

DISCOUNT 45% 2565.96

REMARKS:

50 sks @ 5334'

50 sks @ 3420'

100 sks @ 2710'

50 sks @ 315'

10 sks @ 40'

30 sks Rat hole

Thank you

CHARGE TO: Coral Prod

STREET \_\_\_\_\_

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

SERVICE

HANDLING 311.45 cu/ft @ 2.48 772.39

MILEAGE 2.25 ton/mile 13704 3525.00

DEPTH OF JOB 5334'

PUMP TRUCK CHARGE \_\_\_\_\_ 3149.28

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

HV MILEAGE 100 miles @ 7.20 720.00

LV MILEAGE 100 miles @ 4.40 440.00

TOTAL 8707.17

DISCOUNT 45% 3918.22

PLUG & FLOAT EQUIPMENT

858

1 Dry Hole plug @ 110.00

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL 110.00

DISCOUNT 0% 0

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_

SIGNATURE Holt Tor M. 10/12

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

TOTAL CHARGES 14,519.29

DISCOUNT 6,484.18 (45%) IF PAID IN 30 DAYS

NET TOTAL 8,035.11 IF PAID IN 30 DAYS

# Tim J. Lauer Petroleum Geologist

Office 316.832.0530  
Cell 316.253.1275

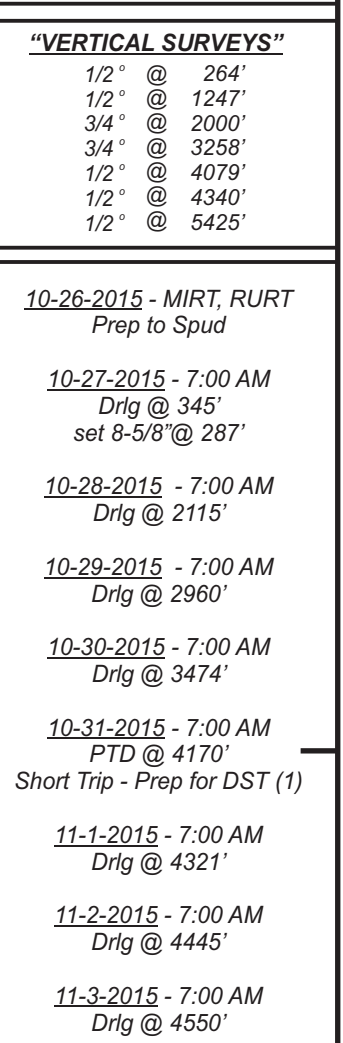
## GEOLOGIST'S REPORT

COMPANY	Coral Production Corp
LEASE	Widocat
FIELD	Widocat
LOCATION	87° FSL, 141° FWL, SW/4
SEC	33
TWP	1S
RGE	41W
COUNTY	Cheyenne STATE Kansas
CONTRACTOR	Duke Drilling Rig#4
SPUD	10-26-2015
COMP	11-7-2015
RTD	5425'
MUD UP	3400'
TYPE MUD	Chemical

ELEVATIONS	KB 3485'
DF	
GL	3476'
Measurements Are All	From Kelly Busing
CASING	
CONDUCTOR	Surface 8-9/8" @ 264'
PRODUCTION	None
ELECTRICAL SURVEYS	Nabors Stack-DPL, DL, ML, PE Sonic - Engr Jason Cappellucci

SAMPLES SAVED FROM	3800' TO RTD
DRILLING TIME KEPT FROM	3800' TO RTD
SAMPLES EXAMINED FROM	3800' TO RTD
GEOLOGICAL SUPERVISION FROM	3905' to RTD
GEOLOGIST ON WELL	Tim J. Lauer

FORMATION TOP	ELECTRIC LOG	SAMPLE LOG
Anhydrite	3453	(+32) 3453 (+32)
Topeka	4214	(-729) 4213 (-728)
Lansing	4399	(-914) 4393 (-908)
Stark	4630	(-1145) 4632 (-1147)
Marmaton	4790	(-1305) 4786 (-1311)
Cherokee Shale	4902	(-1417) 4899 (-1414)
Morrow Sand	5089	(-1604) 5089 (-1604)
Mississippi	5227	(-1742) 5227 (-1742)
Arkubicki	5356	(-1871) 5354 (-1876)
Total Depth	5422' (-1942)	5425 (-1940)

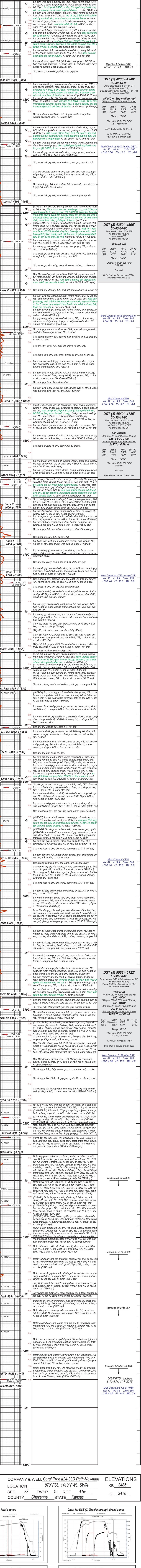


REMARKS  
Due to drill stem test results, and log evaluation, operator elected to plug and abandon the location without further testing the location. Note: Move DST intervals 3' downhole to match Elog measurements.  
Respectfully submitted,  
Tim J. Lauer  
11/9/2015

## LEGEND

Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite
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ADDITIONAL LOGS	DRILLING TIME IN MINUTES PER FOOT	DEPTH (FEET)	SAMPLE DESCRIPTION	REMARKS
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COMPANY & WELL	Coral Prod #24-33D Rath-Newman
LOCATION	87° FSL, 141° FWL, SW/4
SEC	33
TWP	1S
RGE	41W
COUNTY	Cheyenne STATE Kansas

ELEVATIONS	KB 3485'
GL	3476'

