



## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Stout St. Ste 1500  
Denver CO 80202

ATTN: Jim Hall

### **Griebel #9-1**

#### **9-7s-19w Rooks,KS**

Start Date: 2014.05.12 @ 22:50:00

End Date: 2014.05.13 @ 05:00:00

Job Ticket #: 55075                      DST #: 1

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

Printed: 2014.05.16 @ 11:35:23



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55075

**DST#: 1**

ATTN: Jim Hall

Test Start: 2014.05.12 @ 22:50:00

## GENERAL INFORMATION:

Formation: **Topeka-LKC-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:30:30

Time Test Ended: 05:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 3090.00 ft (KB) To 3170.00 ft (KB) (TVD)**

Reference Elevations: 1965.00 ft (KB)

Total Depth: 3170.00 ft (KB) (TVD)

1957.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8673 Outside**

Press@RunDepth: 280.31 psig @ 3091.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.12

End Date:

2014.05.13

Last Calib.:

2014.05.13

Start Time: 22:50:01

End Time:

05:00:00

Time On Btm:

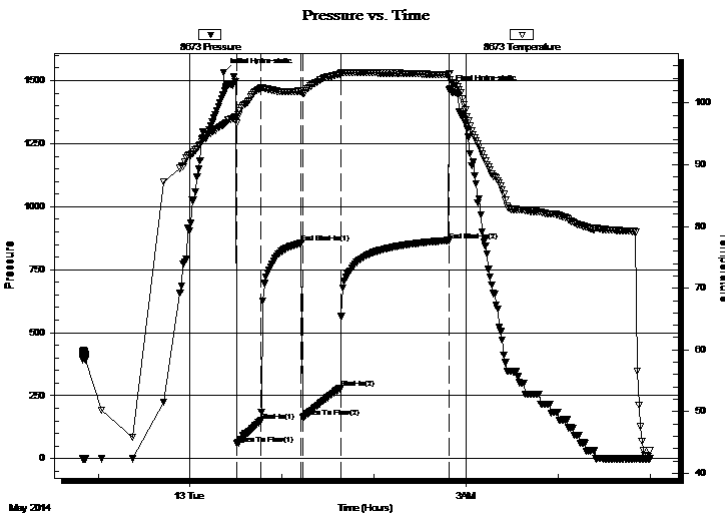
2014.05.13 @ 00:22:00

Time Off Btm:

2014.05.13 @ 02:49:00

**TEST COMMENT:** IF: Strong blow , Built to B.O.B in 2 mins.  
IS: No blow back  
FF: Strong blow , Built to B.O.B in 1 min.  
FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1532.59	96.54	Initial Hydro-static
9	58.91	96.76	Open To Flow (1)
24	150.02	102.38	Shut-In(1)
51	855.35	101.94	End Shut-In(1)
52	164.04	101.55	Open To Flow (2)
76	280.31	104.68	Shut-In(2)
147	866.20	104.56	End Shut-In(2)
147	1464.27	104.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	gocm-40%g20%o40%m	1.50
184.00	gmco-30%g25%m45%o	2.58
509.00	go-30%g70%o	7.14
0.00	630 ft. gas in pipe	0.00

## Gas Rates

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



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# DRILL STEM TEST REPORT

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**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55075

**DST#: 1**

ATTN: Jim Hall

Test Start: 2014.05.12 @ 22:50:00

## GENERAL INFORMATION:

Formation: **Topeka-LKC-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:30:30

Time Test Ended: 05:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 3090.00 ft (KB) To 3170.00 ft (KB) (TVD)**

Reference Elevations: 1965.00 ft (KB)

Total Depth: 3170.00 ft (KB) (TVD)

1957.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8960**

**Inside**

Press@RunDepth: psig @ 3091.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.12

End Date:

2014.05.13

Last Calib.:

2014.05.13

Start Time: 23:22:01

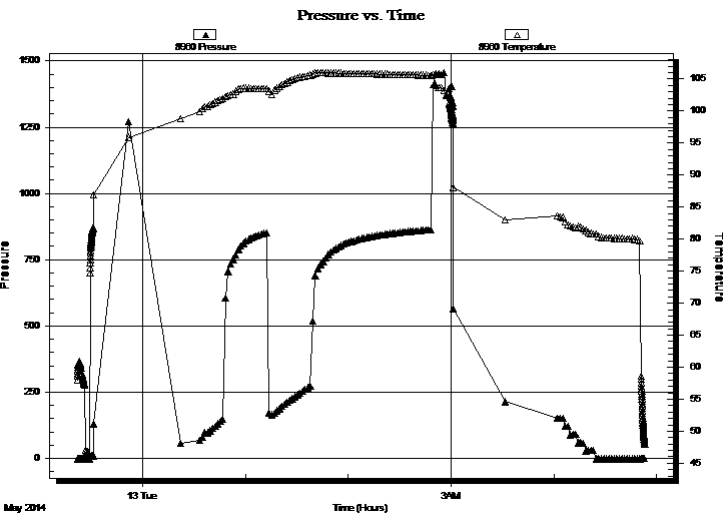
End Time:

04:52:58

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow, Built to B.O.B in 2 mins.  
IS: No blow back  
FF: Strong blow, Built to B.O.B in 1 min.  
FS: No blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	gocm-40%g20%o40%m	1.50
184.00	gmco-30%g25%m45%o	2.58
509.00	go-30%g70%o	7.14
0.00	630 ft. gas in pipe	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55075

**DST#: 1**

ATTN: Jim Hall

Test Start: 2014.05.12 @ 22:50:00

## Tool Information

Drill Pipe:	Length: 3058.00 ft	Diameter: 3.80 inches	Volume: 42.90 bbl	Tool Weight: 2400.00 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 43.04 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3090.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3067.00	
Hydraulic tool	5.00			3072.00	
Jars	5.00			3077.00	
Safety Joint	3.00			3080.00	
Packer	5.00			3085.00	28.00 Bottom Of Top Packer
Packer	5.00			3090.00	
Stubb	1.00			3091.00	
Recorder	0.00	8960	Inside	3091.00	
Recorder	0.00	8673	Outside	3091.00	
Perforations	10.00			3101.00	
change Over Sub	1.00			3102.00	
Drill Pipe	64.00			3166.00	
Change Over Sub	1.00			3167.00	
Bullnose	3.00			3170.00	80.00 Bottom Packers & Anchor

**Total Tool Length: 108.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55075

**DST#: 1**

ATTN: Jim Hall

Test Start: 2014.05.12 @ 22:50:00

## 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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	gocm-40%g20%o40%m	1.503
184.00	gmco-30%g25%m45%o	2.581
509.00	go-30%g70%o	7.140
0.00	630 ft. gas in pipe	0.000

Total Length: 819.00 ft

Total Volume: 11.224 bbl

Num Fluid Samples: 0

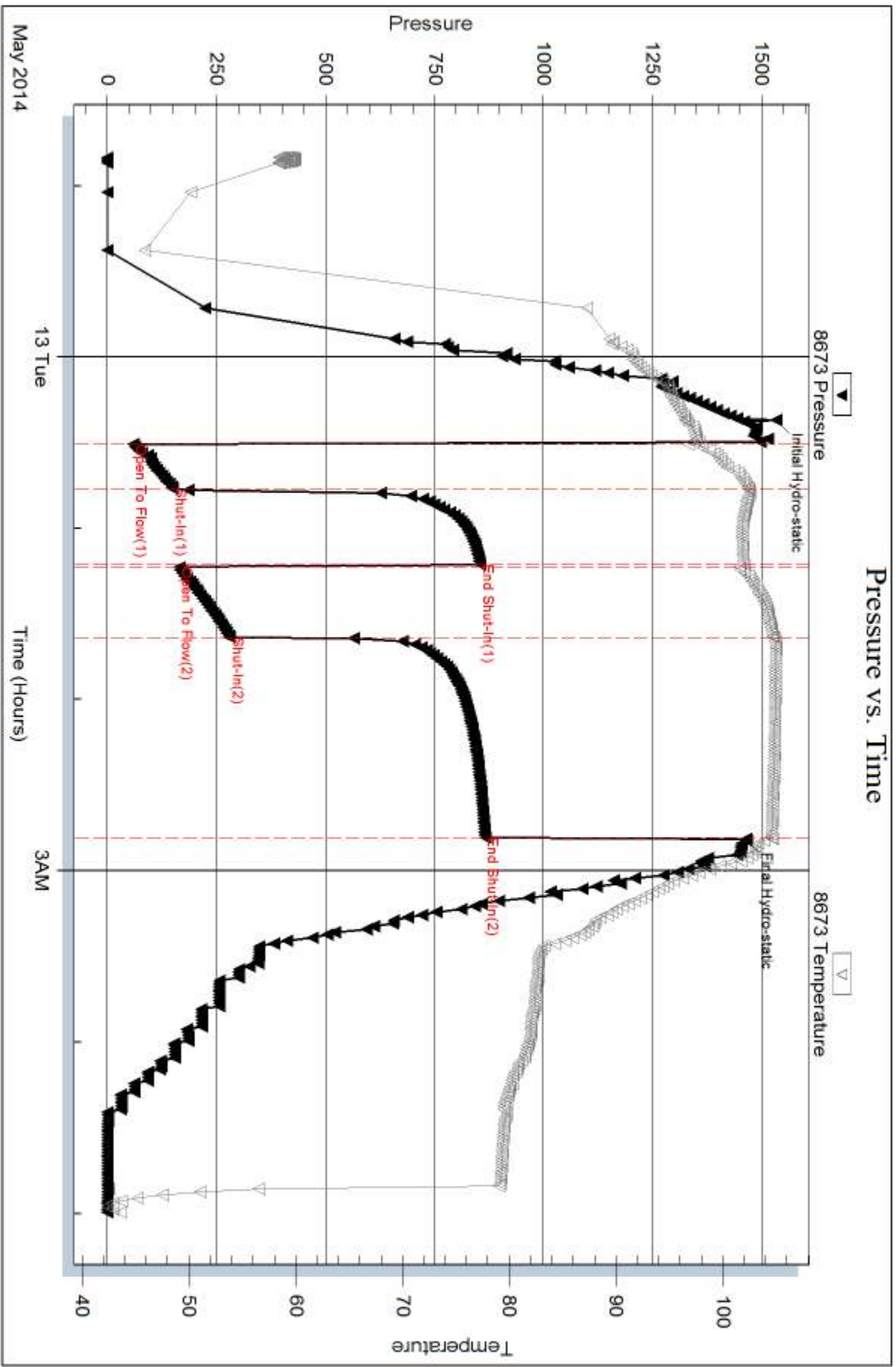
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



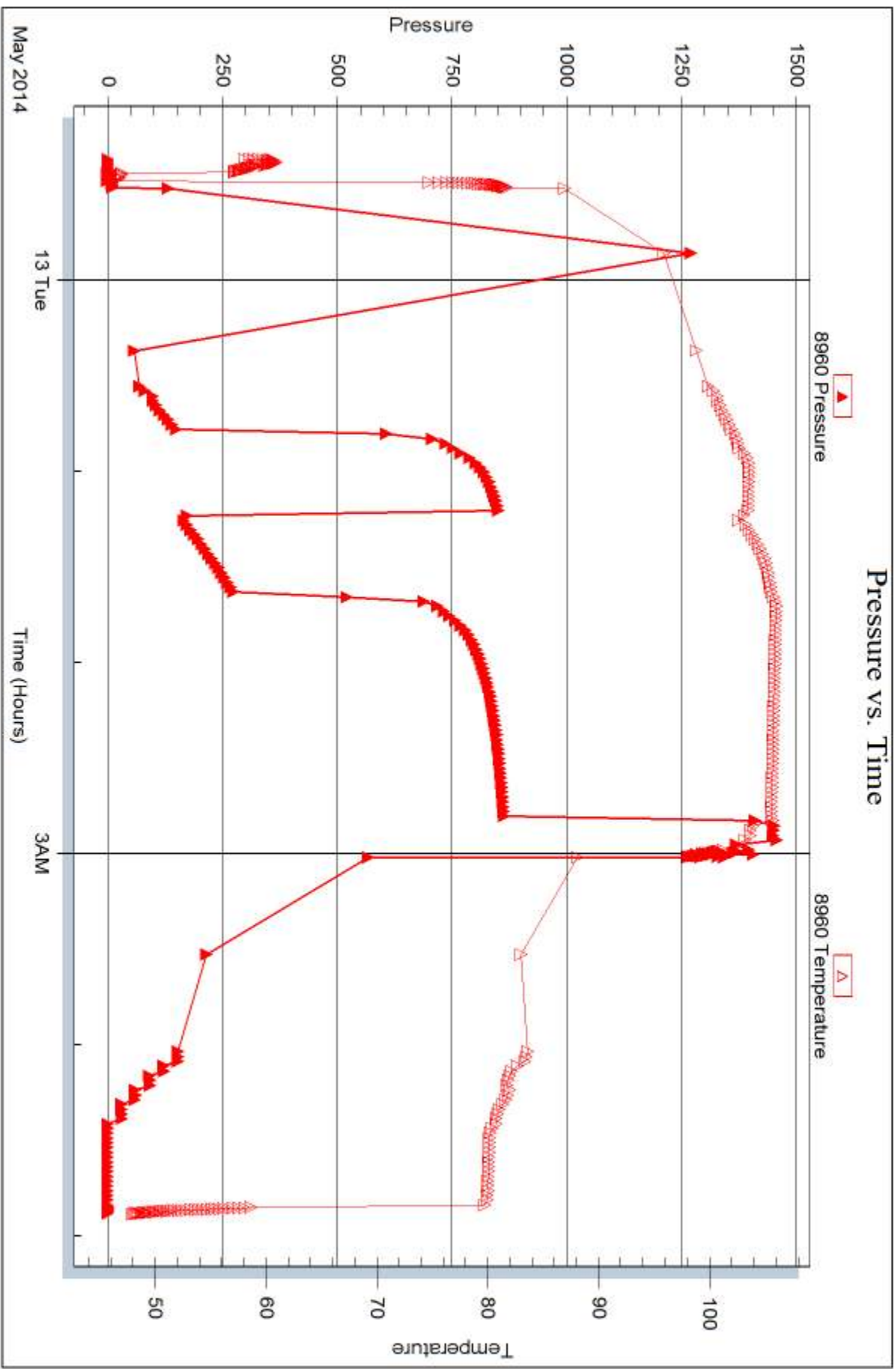
Serial #: 8960

Inside

Coral Production Corp.

Griebe#9-1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Stout St. Ste 1500  
Denver CO 80202

ATTN: Jim Hall

### **Griebel #9-1**

#### **9-7s-19w Rooks,KS**

Start Date: 2014.05.13 @ 14:30:00

End Date: 2014.05.13 @ 19:57:00

Job Ticket #: 58176                      DST #: 2

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

Printed: 2014.05.16 @ 11:34:59





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 58176

**DST#: 2**

ATTN: Jim Hall

Test Start: 2014.05.13 @ 14:30:00

## GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:06:30

Time Test Ended: 19:57:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 3185.00 ft (KB) To 3242.00 ft (KB) (TVD)**

Total Depth: 3242.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1965.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8960**

**Inside**

Press@RunDepth: 38.41 psig @ 3186.00 ft (KB)

Start Date: 2014.05.13

End Date:

2014.05.13

Start Time: 14:30:01

End Time:

19:57:00

Capacity: 8000.00 psig

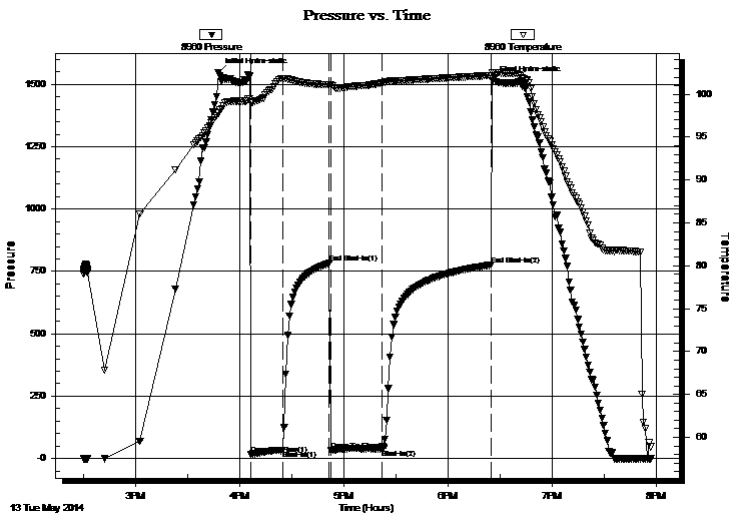
Last Calib.: 2014.05.13

Time On Btm: 2014.05.13 @ 15:47:30

Time Off Btm: 2014.05.13 @ 18:25:30

**TEST COMMENT:** IF: Weak blow 1/2" died to surface  
IS: No blo back  
FF: Weak blow surface  
FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.26	97.80	Initial Hydro-static
19	16.67	98.97	Open To Flow (1)
37	33.59	101.81	Shut-In(1)
64	783.14	101.14	End Shut-In(1)
65	32.45	101.07	Open To Flow (2)
95	38.41	101.32	Shut-In(2)
157	775.46	102.19	End Shut-In(2)
158	1516.02	102.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	mud w ith oil specs	0.23

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 58176

**DST#: 2**

ATTN: Jim Hall

Test Start: 2014.05.13 @ 14:30:00

## GENERAL INFORMATION:

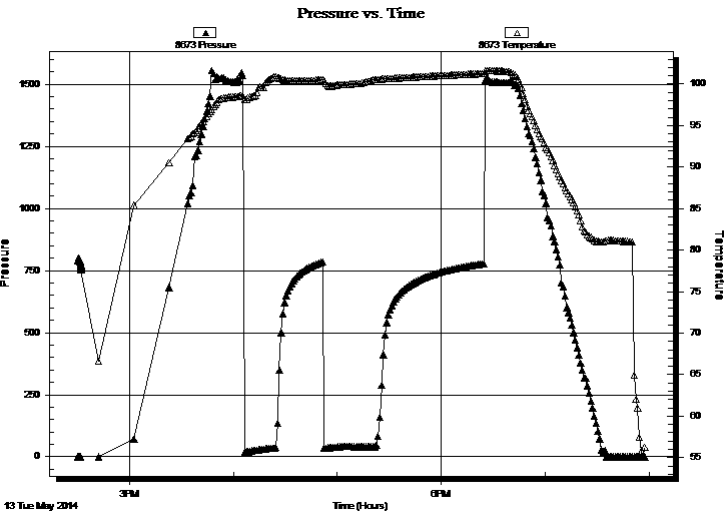
Formation:	<b>LKC</b>			
Deviated:	No	Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	16:06:30			Tester: Chuck Kreuzer Jr.
Time Test Ended:	19:57:00			Unit No: 61
<b>Interval:</b>	<b>3185.00 ft (KB) To 3242.00 ft (KB) (TVD)</b>			Reference Elevations: 1965.00 ft (KB)
Total Depth:	3242.00 ft (KB) (TVD)			1957.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition:	Good	KB to GR/CF: 8.00 ft

## Serial #: 8673

**Outside**

Press@RunDepth:	psig @	3186.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2014.05.13	End Date:	2014.05.13	Last Calib.:	2014.05.13
Start Time:	14:30:01	End Time:	19:57:30	Time On Btm:	
				Time Off Btm:	

**TEST COMMENT:** IF: Weak blow 1/2" died to surface  
IS: No blo back  
FF: Weak blow surface  
FS: No blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	mud w ith oil specs	0.23

\* 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.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 58176

**DST#: 2**

ATTN: Jim Hall

Test Start: 2014.05.13 @ 14:30:00

## Tool Information

Drill Pipe:	Length: 3148.00 ft	Diameter: 3.80 inches	Volume: 44.16 bbl	Tool Weight: 2400.00 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.30 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3185.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	85.00 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			3162.00	
Hydraulic tool	5.00			3167.00	
Jars	5.00			3172.00	
Safety Joint	3.00			3175.00	
Packer	5.00			3180.00	28.00 Bottom Of Top Packer
Packer	5.00			3185.00	
Stubb	1.00			3186.00	
Recorder	0.00	8960	Inside	3186.00	
Recorder	0.00	8673	Outside	3186.00	
Perforations	19.00			3205.00	
change Over Sub	1.00			3206.00	
Drill Pipe	32.00			3238.00	
Change Over Sub	1.00			3239.00	
Bullnose	3.00			3242.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 85.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 58176

**DST#: 2**

ATTN: Jim Hall

Test Start: 2014.05.13 @ 14:30:00

### 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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	mud w ith oil specs	0.227

Total Length: 35.00 ft      Total Volume: 0.227 bbl

Num Fluid Samples: 0

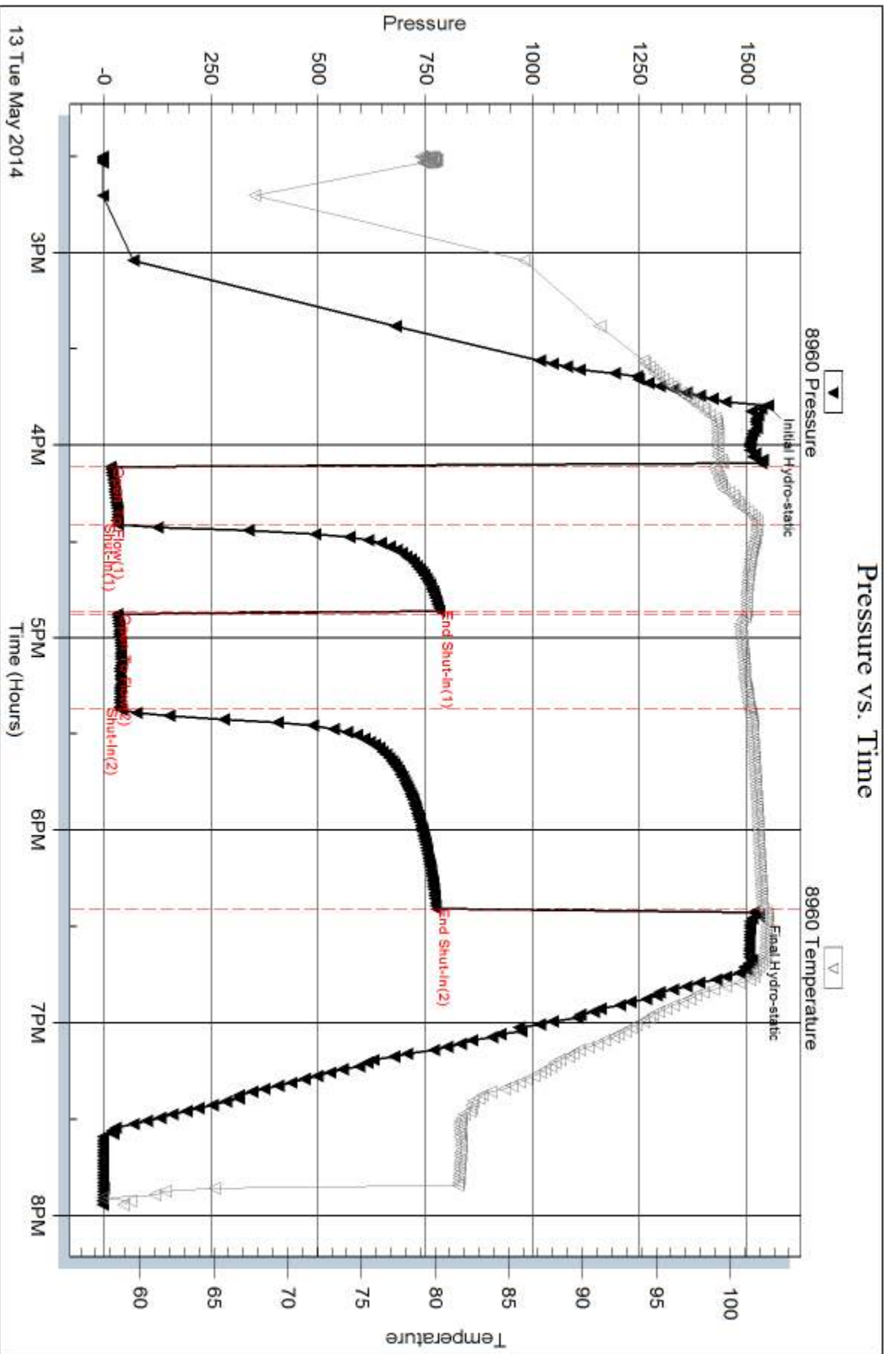
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

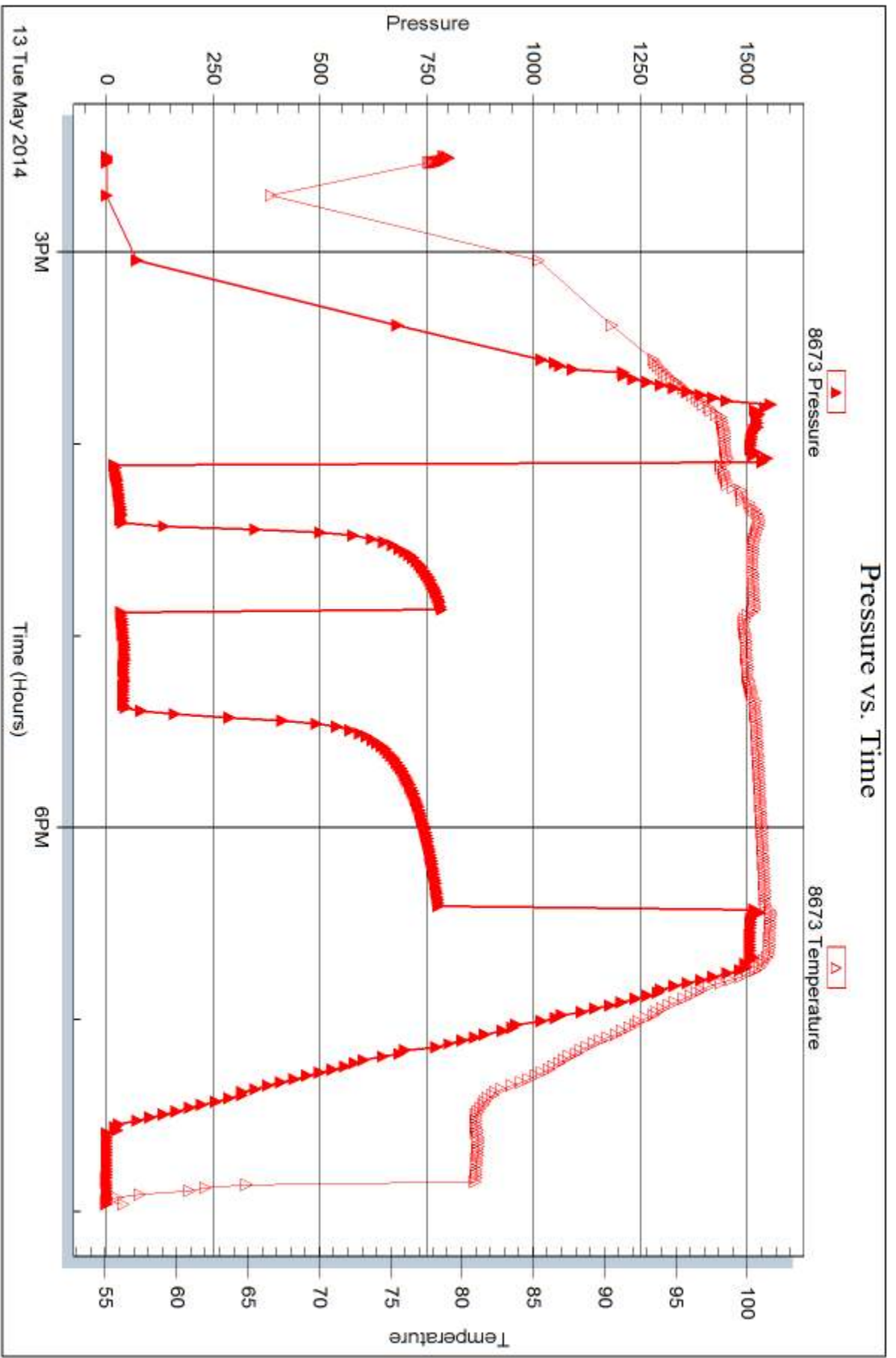


Serial #: 8673

Outside Coral Production Corp.

GriebeI #9-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 58176

Printed: 2014.05.16 @ 11:35:00



## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Stout St. Ste 1500  
Denver CO 80202

ATTN: Jim Hall

### **Griebel #9-1**

#### **9-7s-19w Rooks,KS**

Start Date: 2014.05.14 @ 02:35:35

End Date: 2014.05.14 @ 09:09:29

Job Ticket #: 55344                      DST #: 3

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

Printed: 2014.05.16 @ 11:34:39



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55344

**DST#: 3**

ATTN: Jim Hall

Test Start: 2014.05.14 @ 02:35:35

## GENERAL INFORMATION:

Formation: **LKC F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:39:30

Time Test Ended: 09:09:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

**Interval: 3240.00 ft (KB) To 3252.00 ft (KB) (TVD)**

Reference Elevations: 1965.00 ft (KB)

Total Depth: 3252.00 ft (KB) (TVD)

1957.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369**

**Inside**

Press@RunDepth: 93.32 psig @ 3246.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.14

End Date:

2014.05.14

Last Calib.: 2014.05.14

Start Time: 02:35:35

End Time:

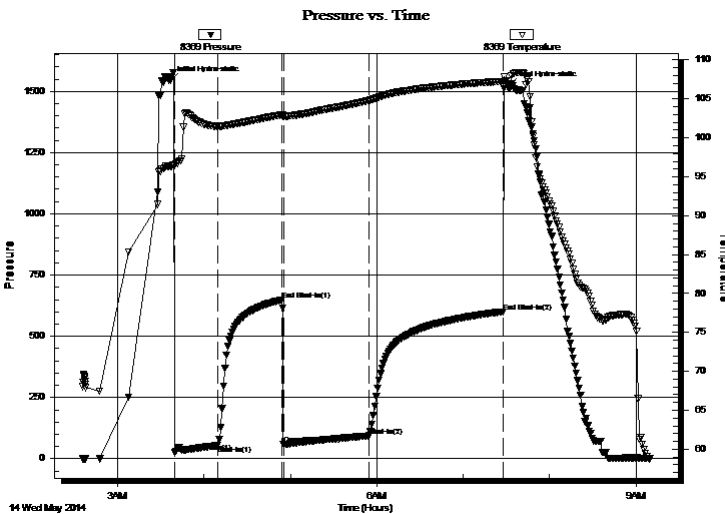
09:09:29

Time On Btm: 2014.05.14 @ 03:36:30

Time Off Btm: 2014.05.14 @ 07:31:59

**TEST COMMENT:** 30-IFP-w k bl thru-out 1/2" to 3" bl  
45-ISIP-no bl  
60-FFP-w k to a fr bl 1/2" to 3 3/4" bl  
90-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1542.96	96.34	Initial Hydro-static
3	24.95	96.42	Open To Flow (1)
33	53.90	101.46	Shut-In(1)
78	649.04	102.98	End Shut-In(1)
79	58.52	102.80	Open To Flow (2)
138	93.32	104.78	Shut-In(2)
231	600.57	107.27	End Shut-In(2)
236	1524.43	106.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	150'GIP	0.00
62.00	SOCM 2%O5%M93%W	0.61
62.00	SOCM 5%O20%M75%W	0.87
30.00	CO	0.42

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55344

**DST#: 3**

ATTN: Jim Hall

Test Start: 2014.05.14 @ 02:35:35

## GENERAL INFORMATION:

Formation: **LKC F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:39:30

Time Test Ended: 09:09:29

**Interval: 3240.00 ft (KB) To 3252.00 ft (KB) (TVD)**

Total Depth: 3252.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Reference Elevations: 1965.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: psig @ 3246.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.14

End Date:

2014.05.14

Last Calib.:

2014.05.14

Start Time: 02:35:34

End Time:

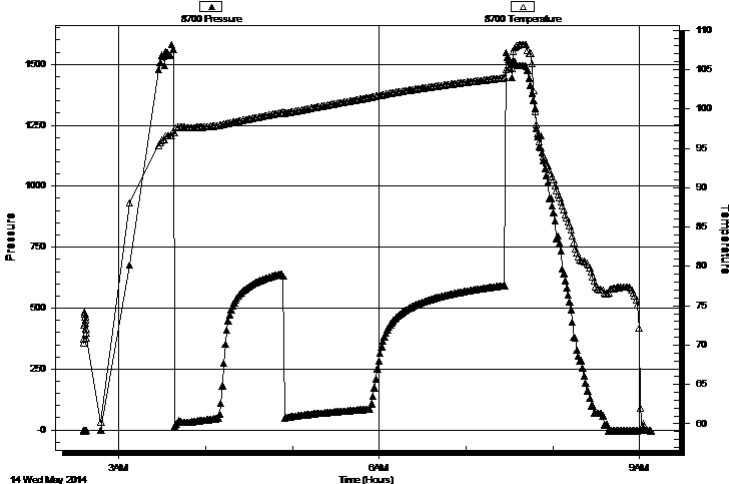
09:07:58

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30-IFP-w k bl thru-out 1/2" to 3" bl  
45-ISIP-no bl  
60-FFP-w k to a fr bl 1/2" to 3 3/4" bl  
90-FSIP-no bl

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	150'GIP	0.00
62.00	SOCM 2%O5%M93%W	0.61
62.00	SOCM 5%O20%M75%W	0.87
30.00	CO	0.42

## 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.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55344

**DST#: 3**

ATTN: Jim Hall

Test Start: 2014.05.14 @ 02:35:35

## Tool Information

Drill Pipe:	Length: 3213.00 ft	Diameter: 3.80 inches	Volume: 45.07 bbl	Tool Weight: 2200.00 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3240.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3217.00	
Hydraulic tool	5.00			3222.00	
Jars	5.00			3227.00	
Safety Joint	3.00			3230.00	
Packer	5.00			3235.00	28.00 Bottom Of Top Packer
Packer	5.00			3240.00	
Stubb	1.00			3241.00	
Perforations	5.00			3246.00	
Recorder	0.00	8369	Inside	3246.00	
Recorder	0.00	8700	Outside	3246.00	
Perforations	3.00			3249.00	
Bullnose	3.00			3252.00	12.00 Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55344

**DST#: 3**

ATTN: Jim Hall

Test Start: 2014.05.14 @ 02:35:35

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

74000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 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
0.00	150'GIP	0.000
62.00	SOCM 2%O5%M93%W	0.606
62.00	SOCM 5%O20%M75%W	0.870
30.00	CO	0.421

Total Length: 154.00 ft

Total Volume: 1.897 bbl

Num Fluid Samples: 0

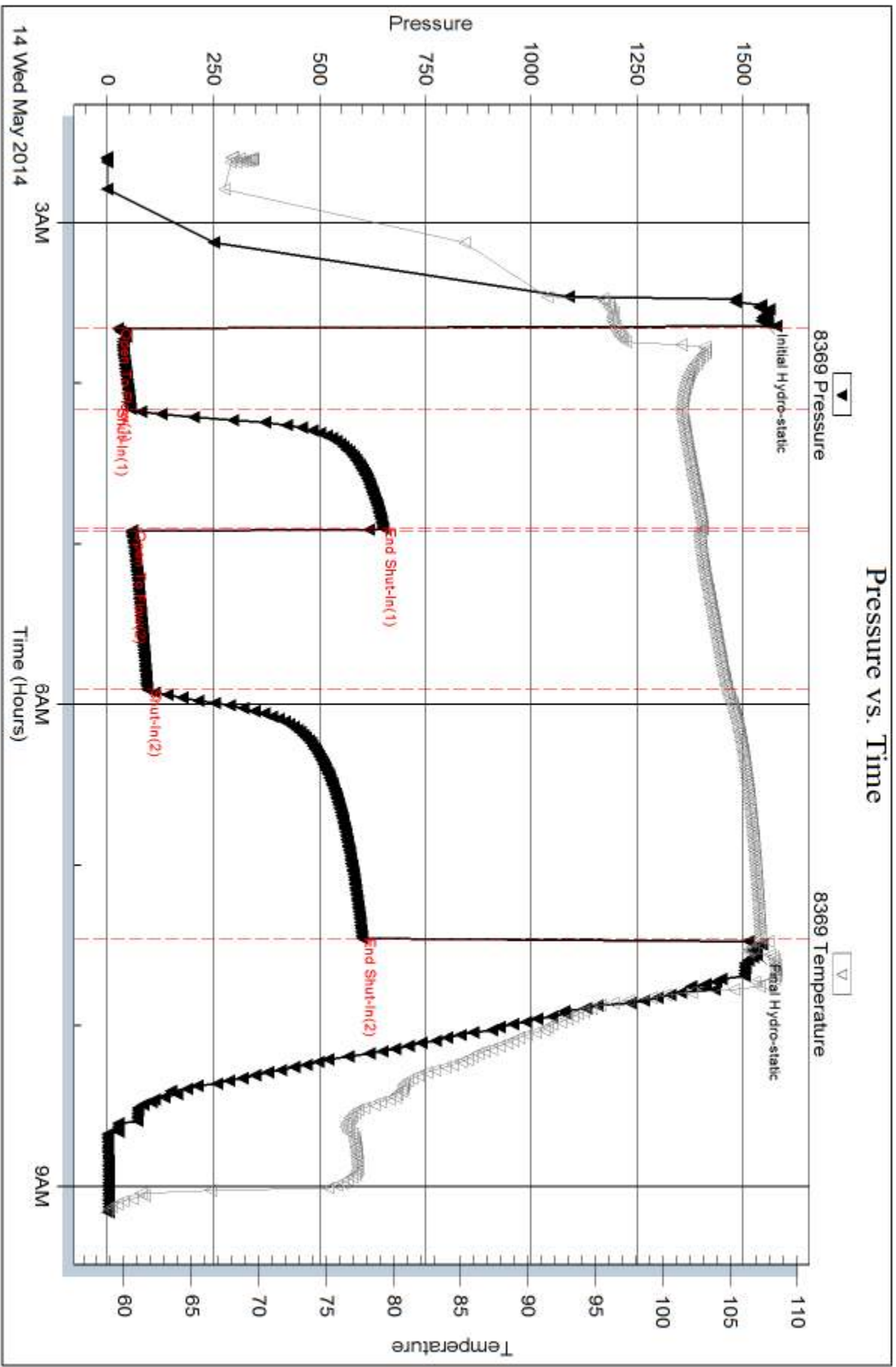
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11 @ 65F

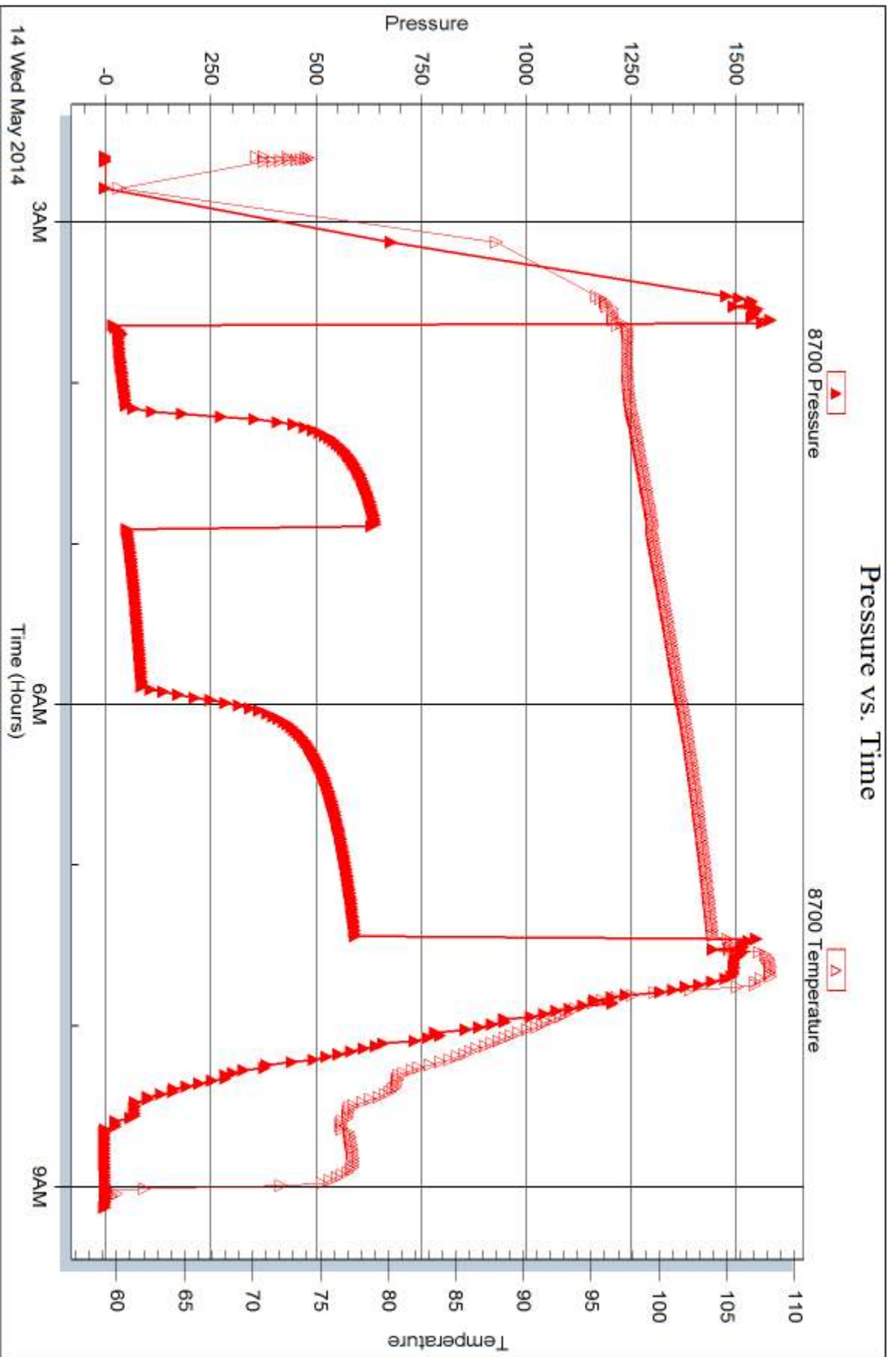


Serial #: 8700

Outside Coral Production Corp.

Griebel #9-1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55344

Printed: 2014.05.16 @ 11:34:40



## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp.**

1600 Stout St. Ste 1500  
Denver CO 80202

ATTN: Jim Hall

### **Griebel #9-1**

#### **9-7s-19w Rooks,KS**

Start Date: 2014.05.14 @ 22:45:32

End Date: 2014.05.15 @ 03:34:26

Job Ticket #: 55345                      DST #: 4

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

Printed: 2014.05.16 @ 11:33:00



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55345

**DST#: 4**

ATTN: Jim Hall

Test Start: 2014.05.14 @ 22:45:32

## GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:05:57

Time Test Ended: 03:34:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

**Interval: 3278.00 ft (KB) To 3364.00 ft (KB) (TVD)**

Reference Elevations: 1965.00 ft (KB)

Total Depth: 3364.00 ft (KB) (TVD)

1957.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8369 Inside**

Press@RunDepth: 24.03 psig @ 3280.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.14

End Date:

2014.05.15

Last Calib.: 2014.05.15

Start Time: 22:45:32

End Time:

03:34:26

Time On Btm: 2014.05.15 @ 00:01:57

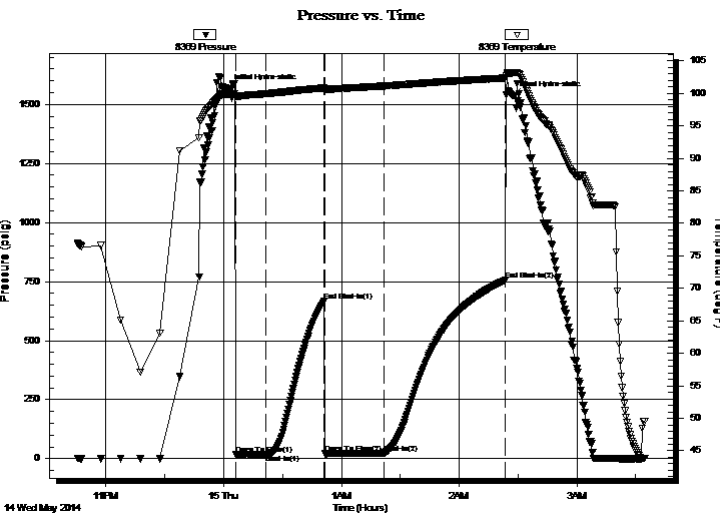
Time Off Btm: 2014.05.15 @ 02:27:27

TEST COMMENT: 15-IFP-surface bl thru-out

30-ISIP-no bl

30-FFP-no bl

60-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1566.16	99.81	Initial Hydro-static
4	18.00	99.45	Open To Flow (1)
20	20.33	99.94	Shut-In(1)
49	666.03	100.83	End Shut-In(1)
50	21.30	100.66	Open To Flow (2)
80	24.03	101.12	Shut-In(2)
142	755.30	102.35	End Shut-In(2)
146	1537.88	103.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55345

**DST#: 4**

ATTN: Jim Hall

Test Start: 2014.05.14 @ 22:45:32

## GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:05:57

Time Test Ended: 03:34:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: **3278.00 ft (KB) To 3364.00 ft (KB) (TVD)**

Reference Elevations: 1965.00 ft (KB)

Total Depth: 3364.00 ft (KB) (TVD)

1957.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8700 Outside**

Press@RunDepth: psig @ 3280.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.14 End Date: 2014.05.15

Last Calib.: 2014.05.15

Start Time: 22:45:52 End Time: 03:33:16

Time On Btm:

Time Off Btm:

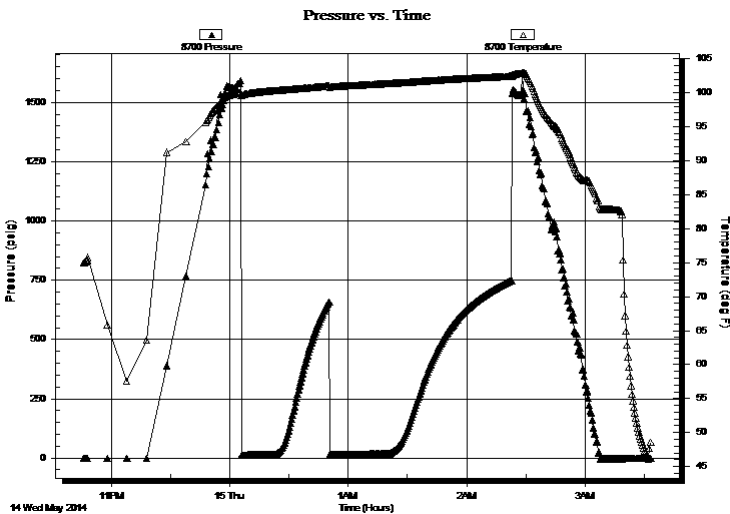
TEST COMMENT: 15-IFP-surface bl thru-out

30-ISIP-no bl

30-FFP-no bl

60-FSIP-no bl

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

## 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.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55345

**DST#: 4**

ATTN: Jim Hall

Test Start: 2014.05.14 @ 22:45:32

## Tool Information

Drill Pipe:	Length: 3246.00 ft	Diameter: 3.80 inches	Volume: 45.53 bbl	Tool Weight: 2200.00 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3278.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	114.00 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			3255.00	
Hydraulic tool	5.00			3260.00	
Jars	5.00			3265.00	
Safety Joint	3.00			3268.00	
Packer	5.00			3273.00	28.00 Bottom Of Top Packer
Packer	5.00			3278.00	
Stubb	1.00			3279.00	
Perforations	1.00			3280.00	
Recorder	0.00	8369	Inside	3280.00	
Recorder	0.00	8700	Outside	3280.00	
Drill Pipe	64.00			3344.00	
Perforations	17.00			3361.00	
Bullnose	3.00			3364.00	86.00 Bottom Packers & Anchor

**Total Tool Length: 114.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Coral Production Corp.

**9-7s-19w Rooks,KS**

1600 Stout St. Ste 1500  
Denver CO 80202

**Griebel #9-1**

Job Ticket: 55345

**DST#: 4**

ATTN: Jim Hall

Test Start: 2014.05.14 @ 22:45:32

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 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
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

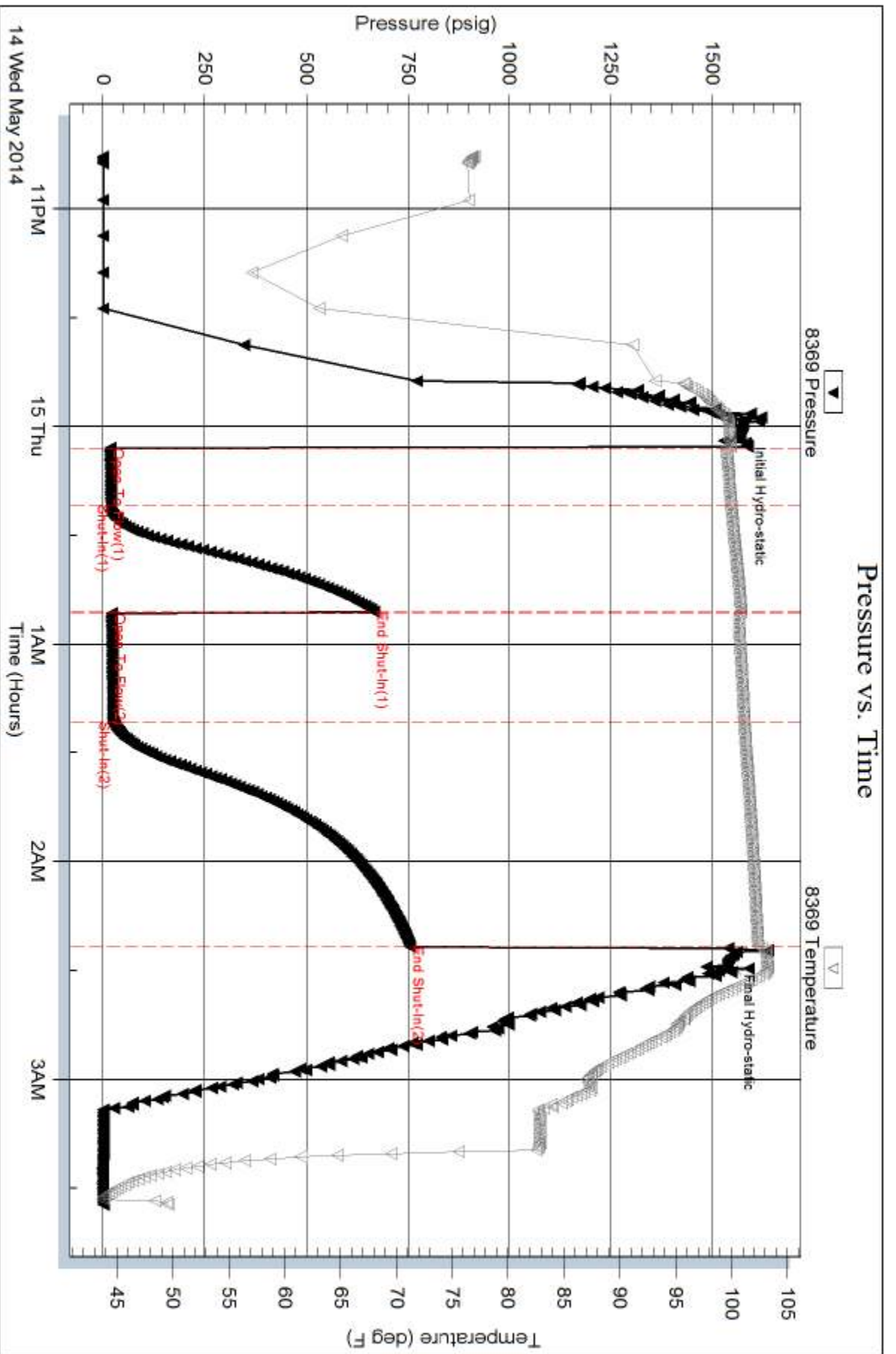
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

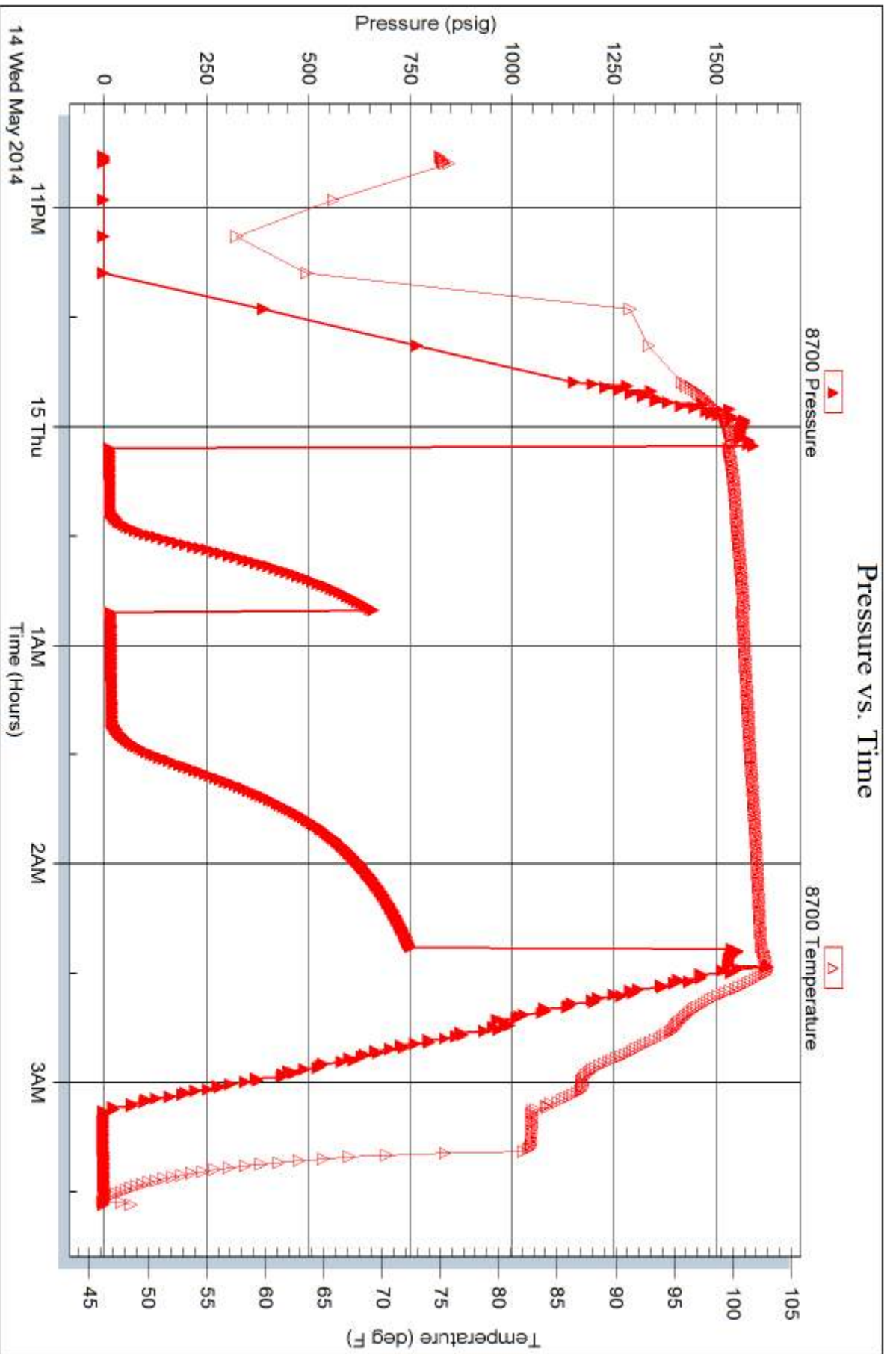


Serial #: 8700

Outside Coral Production Corp.

Griebl #9-1

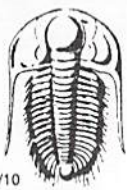
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 55345

Printed: 2014.05.16 @ 11:33:01



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55075

Well Name & No. Griebel # 9-1 Test No. 1 Date 5-12-19  
 Company Coral Prod. Corp. Elevation 1965 KB 1957 GL  
 Address 1600 Stout St. Ste. 1500 Denver Co. 80202  
 Co. Rep / Geo. \_\_\_\_\_ Rig DISE #1  
 Location: Sec. 9 Twp. 7S Rge. 19W Co. Rooks State Ks

Interval Tested 3090 3170 Zone Tested Topeka-LKC-A  
 Anchor Length \_\_\_\_\_ 80 Drill Pipe Run 3058 Mud Wt. 8.9  
 Top Packer Depth \_\_\_\_\_ 3085 Drill Collars Run 29 Vis 70  
 Bottom Packer Depth \_\_\_\_\_ 3090 Wt. Pipe Run -0- WL 7.2  
 Total Depth \_\_\_\_\_ 3170 Chlorides 500 ppm System LCM 2H

Blow Description IF: Strong blow, built to B.O. B in 2 hrs.  
IS: No blow back  
FF: strong blow built to B.O. B in 10 mins  
FS: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>630 ft gas in pipe</u>				
<u>509</u>	<u>go</u>	<u>30%</u>	<u>70%</u>		
<u>184</u>	<u>gmc</u>	<u>30%</u>	<u>45%</u>		<u>25%</u>
<u>126</u>	<u>gocm</u>	<u>40%</u>	<u>20%</u>		<u>80%</u>
_____	_____	%gas	%oil	%water	%mud

Rec Total 819 BHT 105 Gravity 29 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic _____ <u>1533</u>	<input checked="" type="checkbox"/> Test _____ <u>1150</u>	T-On Location _____ <u>21:30</u>
(B) First Initial Flow _____ <u>59</u>	<input checked="" type="checkbox"/> Jars _____ <u>250</u>	T-Started _____ <u>22:50</u>
(C) First Final Flow _____ <u>150</u>	<input checked="" type="checkbox"/> Safety Joint _____ <u>75</u>	T-Open _____ <u>30</u>
(D) Initial Shut-In _____ <u>855</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled _____ <u>2:45</u>
(E) Second Initial Flow _____ <u>164</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____ <u>5:00</u>
(F) Second Final Flow _____ <u>280</u>	<input checked="" type="checkbox"/> Mileage <u>95 x 2 = 190 x 1.55 =</u>	Comments _____
(G) Final Shut-In _____ <u>866</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic _____ <u>1464</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open _____ <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In _____ <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow _____ <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total _____
Final Shut-In _____ <u>60</u>	<input type="checkbox"/> Day Standby _____	Total _____
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total _____	

Approved By \_\_\_\_\_ Our Representative Chuck Kutz

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785-259-3188



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58176

4/10

Well Name & No. Griebel # 9-1 Test No. 2 Date 5-13-74  
 Company Coral Prod. Corp. Elevation 1965 KB 1967 GL  
 Address 1600 Stout St. Ste. 1500 Denver Co. 80202  
 Co. Rep / Geo. \_\_\_\_\_ Rig D3C0#1  
 Location: Sec. 9 Twp. 7S Rge. 19W Co. Rooks State KS

Interval Tested 3185 3240 Zone Tested LKC  
 Anchor Length \_\_\_\_\_ 57 Drill Pipe Run 3148 Mud Wt. 8.9  
 Top Packer Depth \_\_\_\_\_ 3180 Drill Collars Run 29 Vis 70  
 Bottom Packer Depth \_\_\_\_\_ 3185 Wt. Pipe Run - 0 - WL 7.2  
 Total Depth \_\_\_\_\_ 3240 Chlorides 500 ppm System LCM 2#

Blow Description IF: Weak blow 1/2 in died to surface over 30 mins.

ISZ: No blow back

FF: Weak blow surface

FSS: No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>mud with oil specks</u>				
_____	_____				
_____	_____				
_____	_____				
_____	_____				

Rec Total 35 BHT 104 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic _____ <u>1548</u>	<input checked="" type="checkbox"/> Test _____ <u>1150</u>	T-On Location _____ <u>19:00</u>
(B) First Initial Flow _____ <u>17</u>	<input checked="" type="checkbox"/> Jars _____ <u>250</u>	T-Started _____ <u>19:30</u>
(C) First Final Flow _____ <u>34</u>	<input checked="" type="checkbox"/> Safety Joint _____ <u>75</u>	T-Open _____ <u>16:06</u>
(D) Initial Shut-In _____ <u>783</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled _____ <u>18:45</u>
(E) Second Initial Flow _____ <u>32</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____ <u>19:57</u>
(F) Second Final Flow _____ <u>38</u>	<input checked="" type="checkbox"/> Mileage _____	Comments _____
(G) Final Shut-In _____ <u>775</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic _____ <u>1576</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open _____ <u>15</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In _____ <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total _____
Final Flow _____ <u>30</u>	<input type="checkbox"/> Day Standby _____	Total _____
Final Shut-In _____ <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total _____	

Approved By \_\_\_\_\_

Our Representative Chuck [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55344

Well Name & No. GRIEBEL #9-1 Test No. 3 Date 5-14-14  
 Company CORAL Prod Elevation 1965 KB 1957 GL  
 Address 1600 STOUT ST. STE 1500 DENVER, CO 80202  
 Co. Rep / Geo. Rick Hall Rig Discovery rig 1  
 Location: Sec. 9 Twp. 7<sup>s</sup> Rge. 19<sup>w</sup> Co. Rooks State Ks

Interval Tested 3240-3252 Zone Tested LKC F  
 Anchor Length 12 Drill Pipe Run 3213 Mud Wt. 8.9  
 Top Packer Depth 3235 Drill Collars Run 30 Vis 70  
 Bottom Packer Depth 3240 Wt. Pipe Run - WL 7.2  
 Total Depth 3252 Chlorides 500 ppm System LCM -

Blow Description IFP - WEAK Blow thru-out 1/2" To 3" Blow  
ISIP - NO BLOW  
FFP - WEAK TO A FAIR BLOW 1/2" To 3 3/4" Blow  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>GIP</u>				
<u>30</u>	<u>CO</u>				
<u>62</u>	<u>50+GM</u>		<u>5</u>	<u>75</u>	<u>20</u>
<u>62</u>	<u>50 CM</u>		<u>2</u>	<u>93</u>	<u>5</u>

Rec Total 154 BHT 107 Gravity 32 API RW .11 @ 65 °F Chlorides 74000 ppm

(A) Initial Hydrostatic 1542  Test 1150 T-On Location 0200  
 (B) First Initial Flow 24  Jars 250 T-Started 0235  
 (C) First Final Flow 53  Safety Joint 75 T-Open 0335  
 (D) Initial Shut-In 649  Circ Sub \_\_\_\_\_ T-Pulled 0720  
 (E) Second Initial Flow 58  Hourly Standby \_\_\_\_\_ T-Out 0909  
 (F) Second Final Flow 93  Mileage 110 RT 170.50  
 (G) Final Shut-In 600  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1524  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  
 Initial Shut-In 45  
 Final Flow 60  
 Final Shut-In 90  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1645.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1645.50

Approved By Rick Hall Our Representative Ray Schwager Thank you

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55345

Well Name & No. Griebel #9-1 Test No. 4 Date 5-14-14  
 Company CORAL PROD Elevation 1965 KB 1957 GL  
 Address 1600 STOUT ST. STE. 1500 DENVER, CO 80202  
 Co. Rep / Geo. Rick Hall Rig DISCOVER RIG 1  
 Location: Sec. 9 Twp. 7<sup>s</sup> Rge. 19<sup>w</sup> Co. ROOKS State K

Interval Tested 3278-3364 Zone Tested LKC H-K  
 Anchor Length 86 Drill Pipe Run 3246 Mud Wt. 9.1  
 Top Packer Depth 3273 Drill Collars Run 30 Vis 55  
 Bottom Packer Depth 3278 Wt. Pipe Run 33 WL 8  
 Total Depth 3364 Chlorides 750 ppm System LCM 2#

Blow Description TFP - surface Blow thru-out  
TSTP - NO Blow  
FFP - NO Blow  
FSTP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				

Rec Total 5 BHT 102 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1566</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2210</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2245</u>
(C) First Final Flow <u>20</u>	<input type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0005</u>
(D) Initial Shut-In <u>666</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0220</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0334</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>341</u>	Comments <u>Loaded Tool 5-15-14</u>
(G) Final Shut-In <u>755</u>	<input type="checkbox"/> Sampler	<u>1400</u>
(H) Final Hydrostatic <u>1537</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1816</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1816</u>	

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 60

Approved By [Signature] Our Representative RAY SCHWAGER Thank you

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