



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1230888  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1230888

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. 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  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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Coral Production Corporation
Well Name	BIGGE 16-1
Doc ID	1230888

Tops

Name	Top	Datum
ANHYDRITE	1354	509
TOPEKA	2835	-958
QUEEN HILL	2984	-1107
HEEBNER	3041	-1164
TORONTO	3064	-1187
LANSING	3081	-1204
BKC	3305	-1428
CONGL	3331	-1454
ARBUCKLE	3386	-1509

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 960

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-27-14	16	7	18	ROCKS	KS		10:30 am
Location				Stockton 2w 16R 1/2N 1/4 W S into			

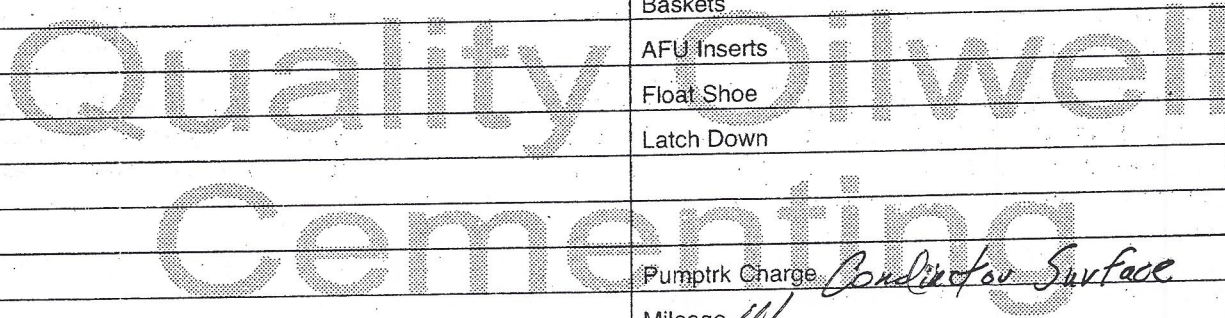
Lease	Well No.	Owner	
Biggie	16-L	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	Type Job	Charge To	
1) screen #2	Conductor	Coral Production	
Hole Size	T.D.	Street	
17 1/2	55'		
Csg.	Depth	City	
13 3/8 54.50#	55'	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered	
Cement Left in Csg.	Shoe Joint	700m 3/12 7/16R	
15'			

Meas Line	Displace	Common
	6BL	70
<b>EQUIPMENT</b>		
Pumptrk	No.	Cement
5		Helper
		Driver
Bulktrk	No.	Driver
		Driver
Bulktrk	No.	Driver
14		Driver

<b>JOB SERVICES &amp; REMARKS</b>		Hulls
Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
13 3/8 on bottom Est Circulation		Handling 73
Mix 225K + Displace		Mileage

<b>FLOAT EQUIPMENT</b>	
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	Conductor Surface	Tax
Mileage	41	Discount
Signature		Total Charge
[Signature]		



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. **877**

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-29-14	16	7	18	Rooks	KS		4:00 PM

Location *Stockton 2W to 16 Rd 1/2 N W 2*

Lease <i>Pigg</i>	Well No. <i>16-1</i>	Owner
Contractor <i>Discovery #2</i>	To: Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job <i>Surface</i>	Charge To: <i>Central Production</i>	
Hole Size <i>12 1/4</i>	T.D. <i>1332</i>	Street
Csg. <i>8 1/2</i>	Depth <i>1332</i>	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint <i>3739</i>	Cement Amount Ordered <i>500sx 8 1/2, 3% cc, 2% gel</i>
Meas Line	Displace <i>823661</i>	

**EQUIPMENT**

Pumptrk <i>18</i>	No.	Cementor	Common <i>400</i>
		Helper <i>Lennie W</i>	Poz. Mix <i>100</i>
Bulktrk <i>21</i>	No.	Driver <i>Ryan</i>	Gel. <i>10</i>
Bulktrk <i>P4</i>	No.	Driver <i>Travis</i>	Calcium <i>15</i>

**JOB SERVICES & REMARKS**

Remarks: <i>Cement did circulate</i>	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers <i>#2, 13, 30</i>	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <i>525</i>
	Mileage

**FLOAT EQUIPMENT**

	Guide Shoe
	Centralizer <i>3</i>
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	<i>1 Kraftal plate</i>
	Pumptrk Charge <i>Long Surface</i>
	Mileage <i>41</i>

X Signature <i>[Signature]</i>	Tax
	Discount
	Total Charge



## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corporation**

1600 Stout St STE 1500  
Denver, CO 80202

ATTN: Tim Lauer

### **Bigge #16-1**

#### **16-7s-18w Rooks,KS**

Start Date: 2014.11.01 @ 15:57:00

End Date: 2014.11.01 @ 23:39:00

Job Ticket #: 60722                      DST #: 1

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

Printed: 2014.11.07 @ 16:03:36



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60722

**DST#: 1**

ATTN: Tim Lauer

Test Start: 2014.11.01 @ 15:57:00

## GENERAL INFORMATION:

Formation: **Toronto- LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:02:00

Time Test Ended: 23:39:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 62

**Interval: 3036.00 ft (KB) To 3180.00 ft (KB) (TVD)**

Reference Elevations: 1877.00 ft (KB)

Total Depth: 3180.00 ft (KB) (TVD)

1869.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8655 Outside**

Press@RunDepth: 94.17 psig @ 3037.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.01 End Date: 2014.11.01

Last Calib.: 2014.11.01

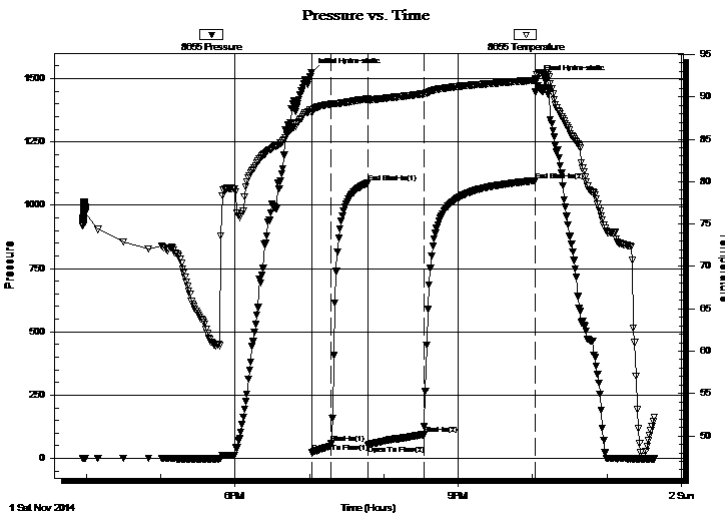
Start Time: 15:57:01 End Time: 23:39:00

Time On Btm: 2014.11.01 @ 19:01:30

Time Off Btm: 2014.11.01 @ 22:03:30

**TEST COMMENT:** 15-IF-Built to 4 1/2"  
30-ISI-No Return  
45-FF-Built to 8 1/2"  
90-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1524.39	88.53	Initial Hydro-static
1	22.65	88.07	Open To Flow (1)
16	58.40	89.15	Shut-In(1)
46	1087.81	89.76	End Shut-In(1)
46	53.33	89.57	Open To Flow (2)
91	94.17	90.35	Shut-In(2)
181	1097.06	91.96	End Shut-In(2)
182	1495.39	92.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	VSWGOCM, 5%w, 5%g, 10%o, 80%m	0.93
20.00	VSOCM, 5%o 95%m	0.15
5.00	O, 100%o	0.04

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60722

**DST#: 1**

ATTN: Tim Lauer

Test Start: 2014.11.01 @ 15:57:00

## Tool Information

Drill Pipe:	Length: 2751.00 ft	Diameter: 3.80 inches	Volume: 38.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 278.00 ft	Diameter: 2.75 inches	Volume: 2.04 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: 48000.00 lb
			<u>Total Volume: 40.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3036.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	144.00 ft			
Tool Length:	164.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3017.00	
Shut In Tool	5.00			3022.00	
Hydraulic tool	5.00			3027.00	
Packer	5.00			3032.00	20.00 Bottom Of Top Packer
Packer	4.00			3036.00	
Stubb	1.00			3037.00	
Recorder	0.00	8651	Inside	3037.00	
Recorder	0.00	8655	Outside	3037.00	
Perforations	12.00			3049.00	
Change Over Sub	1.00			3050.00	
Drill Pipe	126.00			3176.00	
Change Over Sub	1.00			3177.00	
Bullnose	3.00			3180.00	144.00 Bottom Packers & Anchor

**Total Tool Length: 164.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60722

**DST#: 1**

ATTN: Tim Lauer

Test Start: 2014.11.01 @ 15:57:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 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 bbl
126.00	VSWGOCM, 5%w, 5%g, 10%o, 80%m	0.926
20.00	VSOCM, 5%o 95%m	0.147
5.00	O, 100%o	0.037

Total Length: 151.00 ft

Total Volume: 1.110 bbl

Num Fluid Samples: 0

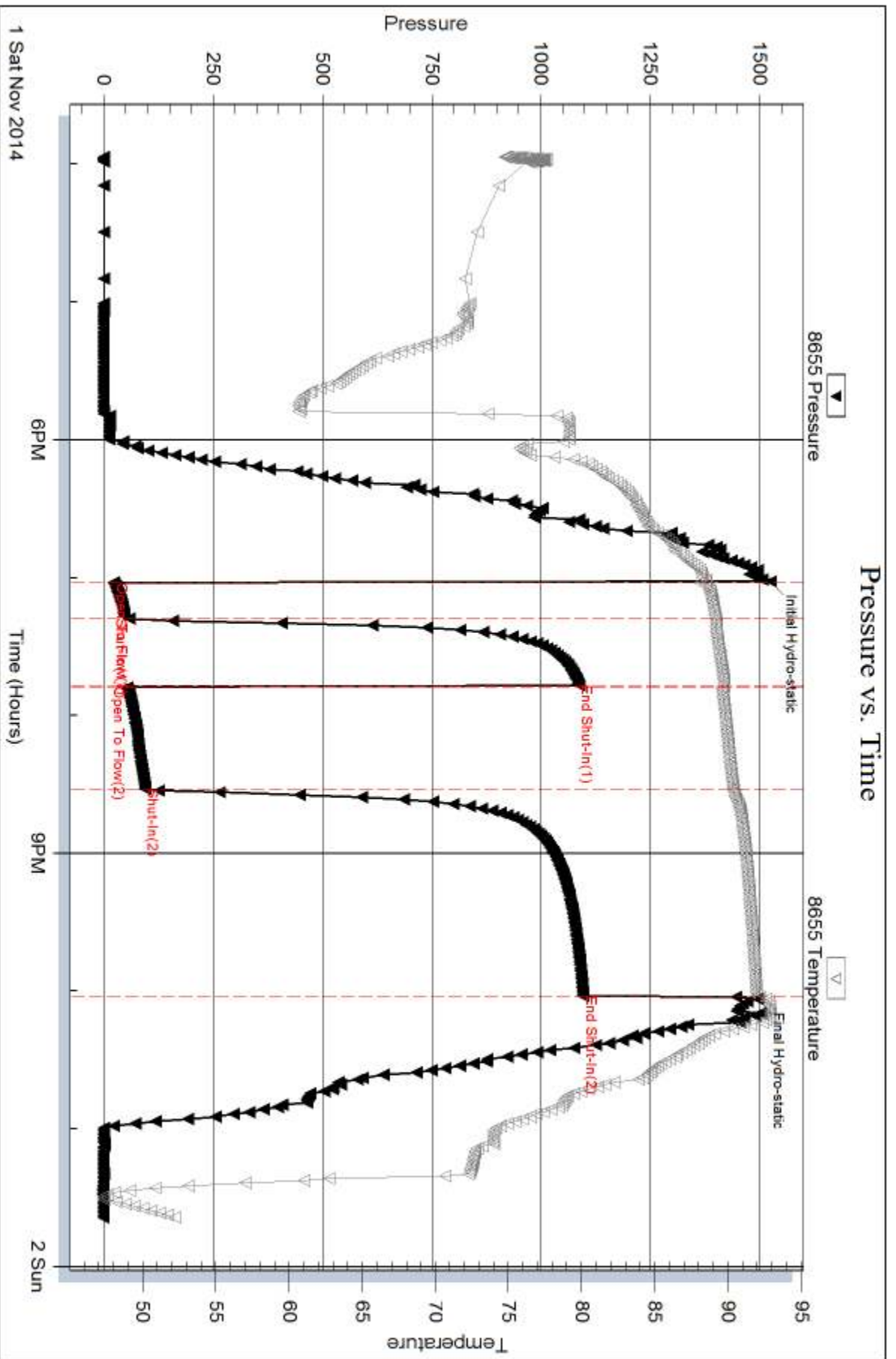
Num Gas Bombs: 0

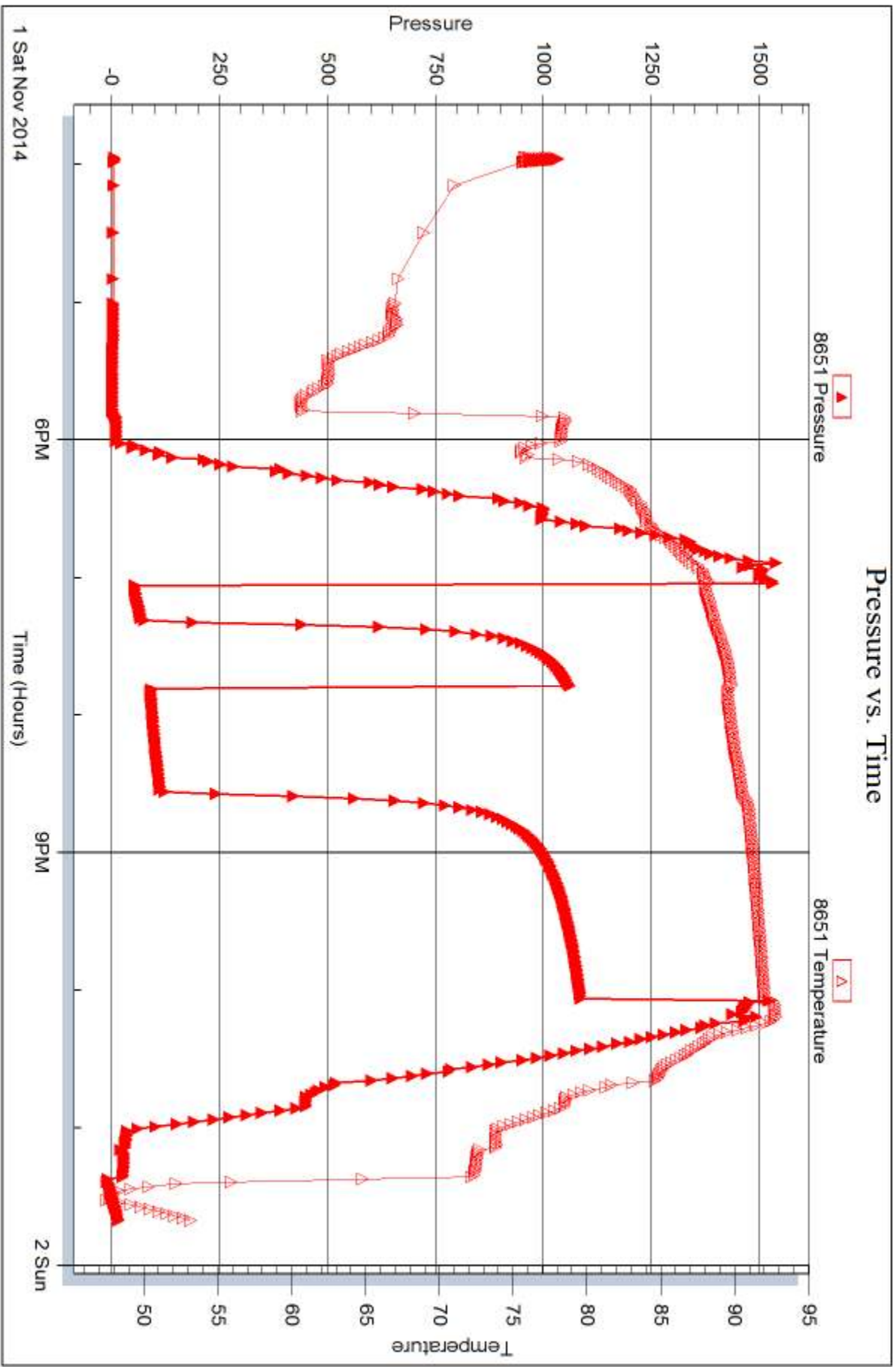
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corporation**

1600 Stout St STE 1500  
Denver, CO 80202

ATTN: Tim Lauer

### **Bigge #16-1**

#### **16-7s-18w Rooks,KS**

Start Date: 2014.11.02 @ 08:09:00

End Date: 2014.11.02 @ 13:48:30

Job Ticket #: 60723                      DST #: 2

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

Printed: 2014.11.07 @ 16:03:13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60723

**DST#: 2**

ATTN: Tim Lauer

Test Start: 2014.11.02 @ 08:09:00

## GENERAL INFORMATION:

Formation: **LKC "H-I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:00

Time Test Ended: 13:48:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 62

**Interval: 3194.00 ft (KB) To 3255.00 ft (KB) (TVD)**

Reference Elevations: 1877.00 ft (KB)

Total Depth: 3255.00 ft (KB) (TVD)

1869.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8655 Outside**

Press@RunDepth: 19.83 psig @ 3195.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.02

End Date:

2014.11.02

Last Calib.:

2014.11.02

Start Time: 08:09:01

End Time:

13:48:30

Time On Btm:

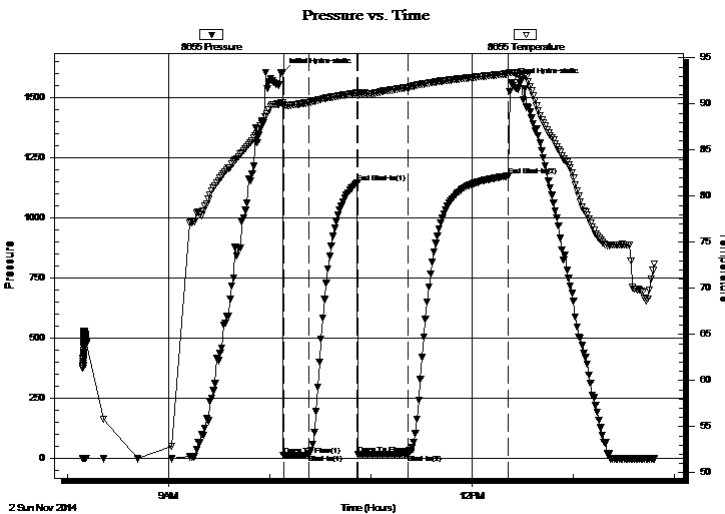
2014.11.02 @ 10:07:30

Time Off Btm:

2014.11.02 @ 12:23:30

**TEST COMMENT:** 15-IF-Surface Blow  
30-ISI-No Return  
30-FF-Weak Surface Blow , Died in 8 mins.  
60-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.57	90.18	Initial Hydro-static
1	12.99	89.88	Open To Flow (1)
16	15.82	90.15	Shut-In(1)
45	1145.28	91.19	End Shut-In(1)
45	16.43	90.93	Open To Flow (2)
75	19.83	91.80	Shut-In(2)
134	1173.39	93.27	End Shut-In(2)
136	1560.92	93.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	M, w ith oil spots 100%m	0.07

\* 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 Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60723

**DST#: 2**

ATTN: Tim Lauer

Test Start: 2014.11.02 @ 08:09:00

## Tool Information

Drill Pipe:	Length: 2910.00 ft	Diameter: 3.80 inches	Volume: 40.82 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 278.00 ft	Diameter: 2.75 inches	Volume: 2.04 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: 50000.00 lb
			<u>Total Volume: 42.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3194.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3175.00	
Shut In Tool	5.00			3180.00	
Hydraulic tool	5.00			3185.00	
Packer	5.00			3190.00	20.00 Bottom Of Top Packer
Packer	4.00			3194.00	
Stubb	1.00			3195.00	
Recorder	0.00	8651	Inside	3195.00	
Recorder	0.00	8655	Outside	3195.00	
Perforations	24.00			3219.00	
Change Over Sub	1.00			3220.00	
Drill Pipe	31.00			3251.00	
Change Over Sub	1.00			3252.00	
Bullnose	3.00			3255.00	61.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60723

**DST#: 2**

ATTN: Tim Lauer

Test Start: 2014.11.02 @ 08:09:00

## 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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 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 bbl
10.00	M, w ith oil spots 100%m	0.073

Total Length: 10.00 ft      Total Volume: 0.073 bbl

Num Fluid Samples: 0

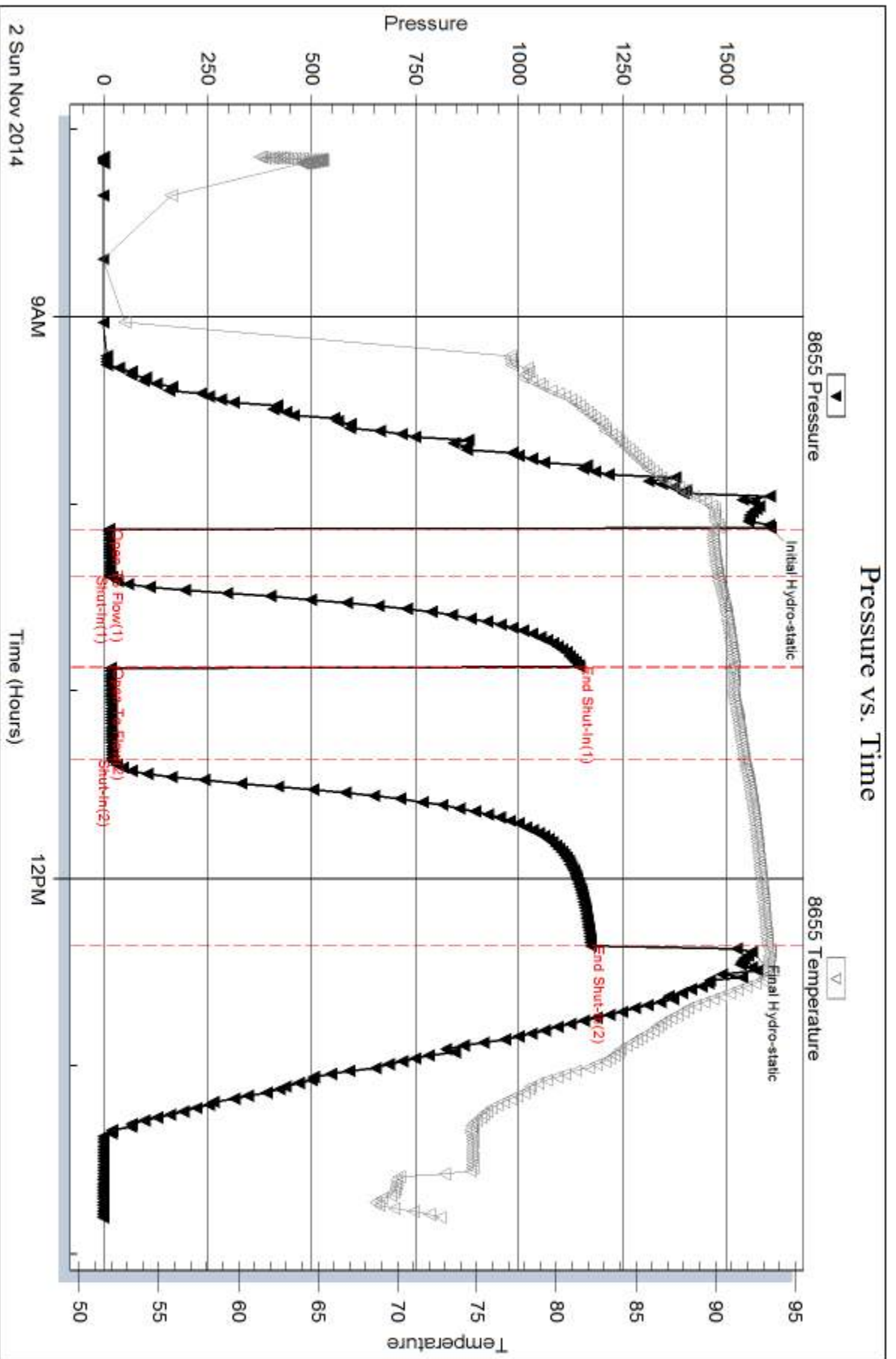
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



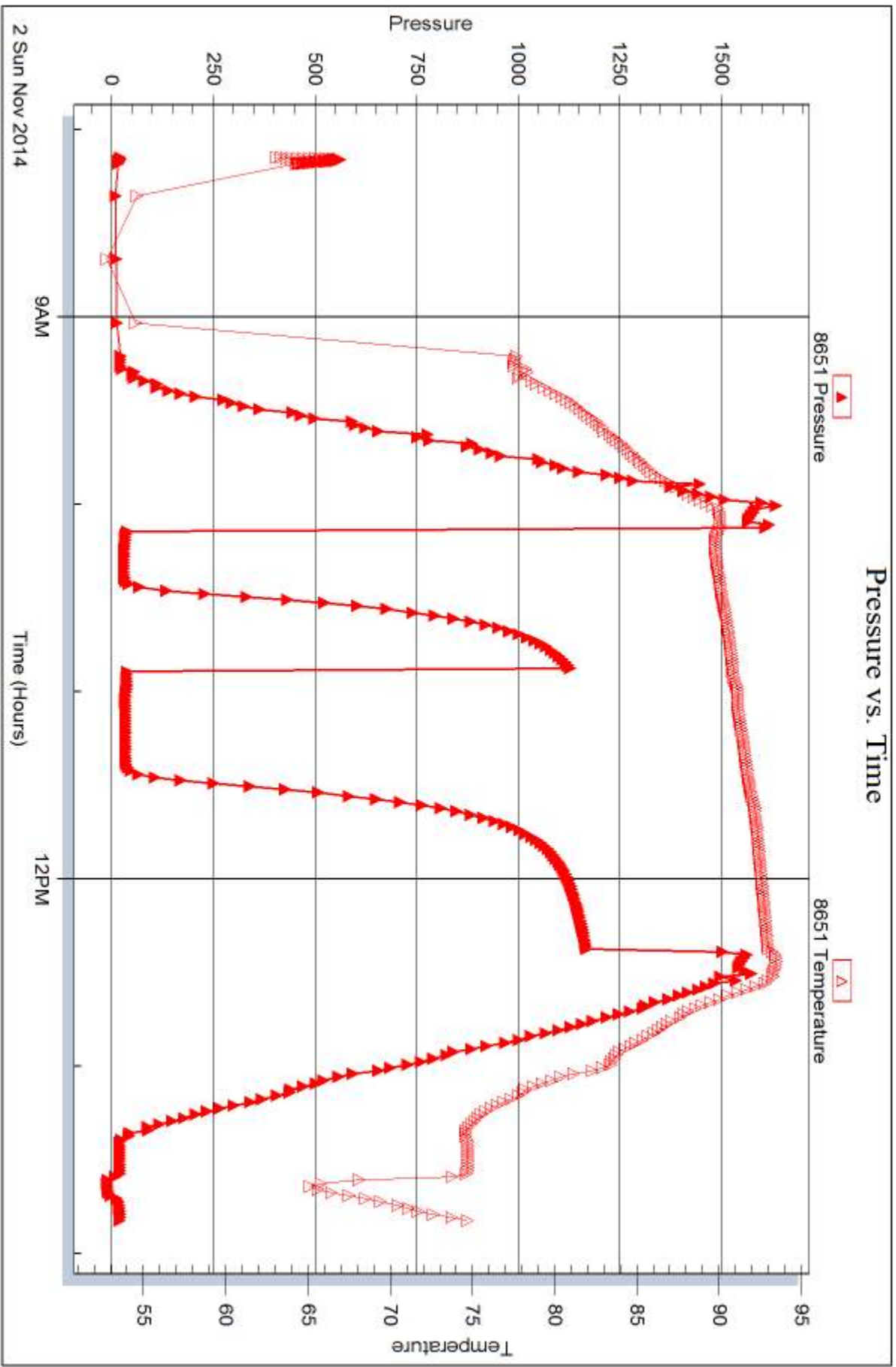
Serial #: 8651

Inside

Coral Production Corporation

Bigge #16-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60723

Printed: 2014.11.07 @ 16:03:15



## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corporation**

1600 Stout St STE 1500  
Denver, CO 80202

ATTN: Tim Lauer

### **Bigge #16-1**

#### **16-7s-18w Rooks,KS**

Start Date: 2014.11.02 @ 18:56:00

End Date: 2014.11.03 @ 00:05:00

Job Ticket #: 60724                      DST #: 3

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

Printed: 2014.11.07 @ 15:56:33



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60724

**DST#: 3**

ATTN: Tim Lauer

Test Start: 2014.11.02 @ 18:56:00

## GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:35:30

Time Test Ended: 00:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 62

**Interval: 3243.00 ft (KB) To 3275.00 ft (KB) (TVD)**

Reference Elevations: 1877.00 ft (KB)

Total Depth: 3275.00 ft (KB) (TVD)

1869.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8655 Outside**

Press@RunDepth: 21.90 psig @ 3244.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.02

End Date: 2014.11.03

Last Calib.: 2014.11.03

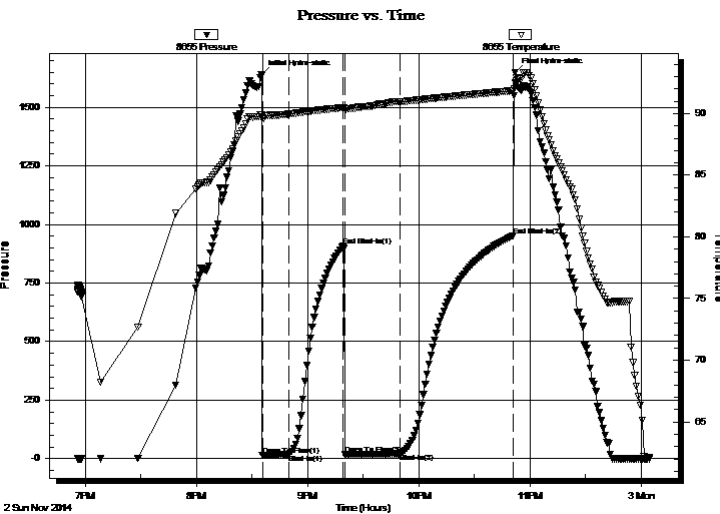
Start Time: 18:56:01

End Time: 00:05:00

Time On Btm: 2014.11.02 @ 20:35:00

Time Off Btm: 2014.11.02 @ 22:52:00

**TEST COMMENT:** 15-IF-Built to 1/2"  
30-ISI-No Return  
30-FF-No Blow  
60-FSI-No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.33	89.92	Initial Hydro-static
1	13.18	89.64	Open To Flow (1)
15	18.64	89.97	Shut-In(1)
44	906.73	90.49	End Shut-In(1)
45	17.83	90.35	Open To Flow (2)
75	21.90	90.96	Shut-In(2)
136	951.77	91.85	End Shut-In(2)
137	1649.32	92.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	M, w ith oil spots, 100% m	0.07

\* 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 Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60724

**DST#: 3**

ATTN: Tim Lauer

Test Start: 2014.11.02 @ 18:56:00

## Tool Information

Drill Pipe:	Length: 2973.00 ft	Diameter: 3.80 inches	Volume: 41.70 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 278.00 ft	Diameter: 2.75 inches	Volume: 2.04 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: 55000.00 lb
			<u>Total Volume: 43.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3243.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3224.00	
Shut In Tool	5.00			3229.00	
Hydraulic tool	5.00			3234.00	
Packer	5.00			3239.00	20.00 Bottom Of Top Packer
Packer	4.00			3243.00	
Stubb	1.00			3244.00	
Recorder	0.00	8651	Inside	3244.00	
Recorder	0.00	8655	Outside	3244.00	
Perforations	28.00			3272.00	
Bullnose	3.00			3275.00	32.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>52.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60724

**DST#: 3**

ATTN: Tim Lauer

Test Start: 2014.11.02 @ 18:56:00

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.50 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M, w ith oil spots, 100%m	0.073

Total Length: 10.00 ft      Total Volume: 0.073 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

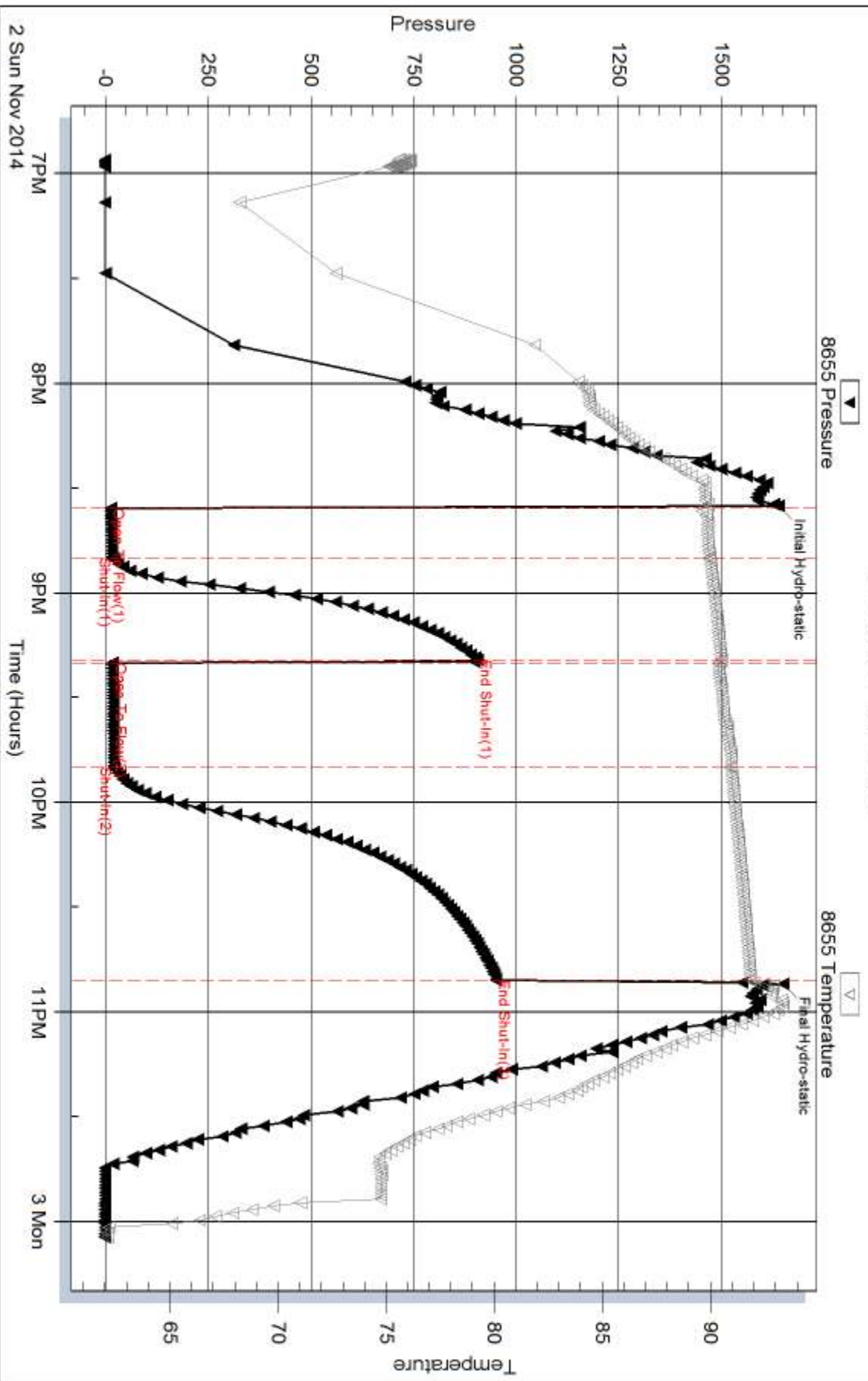
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time



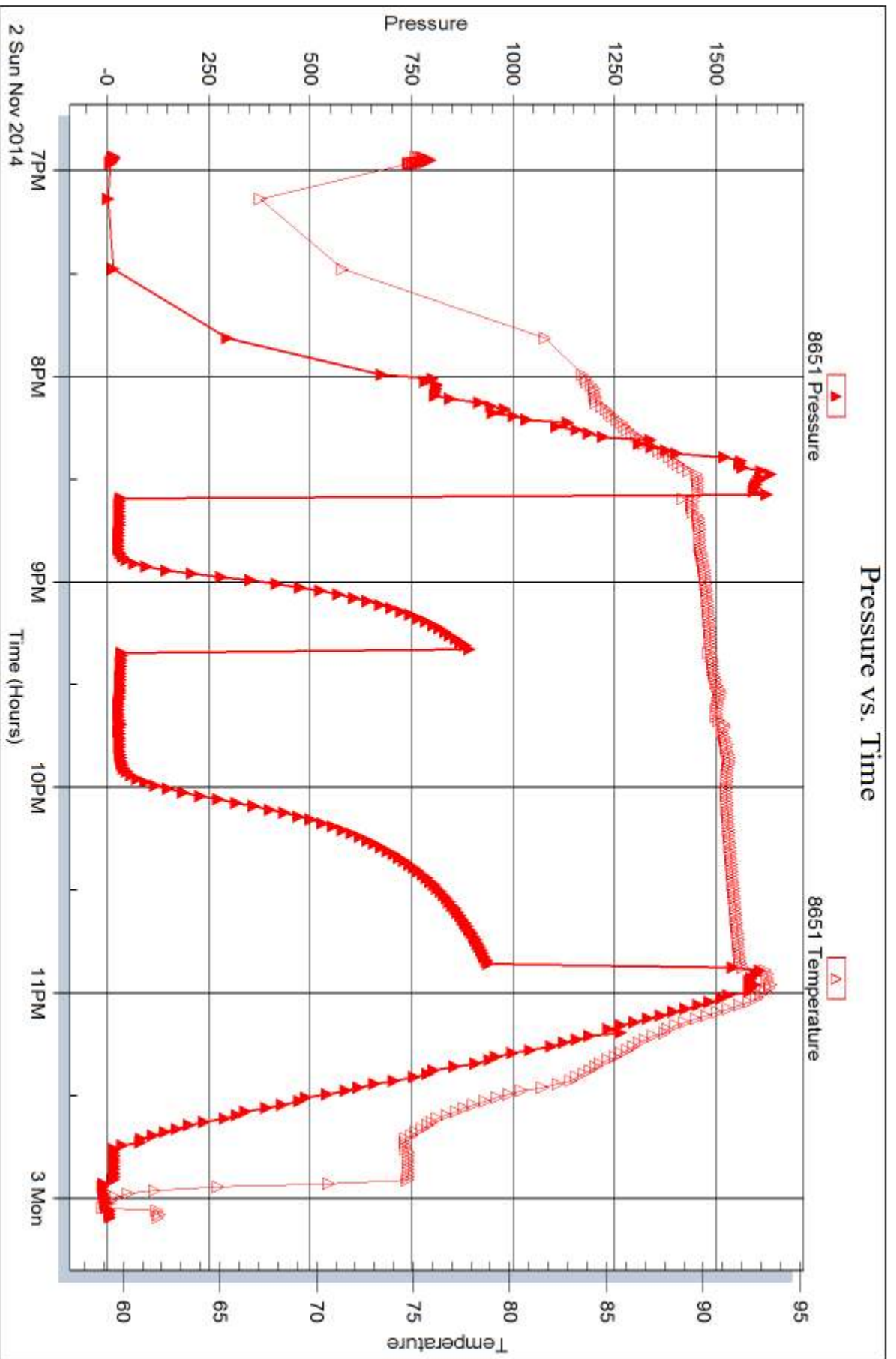
Serial #: 8651

Inside

Coral Production Corporation

Bigge #16-1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corporation**

1600 Stout St STE 1500  
Denver, CO 80202

ATTN: Tim Lauer

### **Bigge #16-1**

#### **16-7s-18w Rooks,KS**

Start Date: 2014.11.03 @ 06:45:00

End Date: 2014.11.03 @ 12:37:30

Job Ticket #: 60725                      DST #: 4

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

Printed: 2014.11.07 @ 15:55:49



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60725

**DST#: 4**

ATTN: Tim Lauer

Test Start: 2014.11.03 @ 06:45:00

## GENERAL INFORMATION:

Formation: **LKC "K-L"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:27:30  
 Time Test Ended: 12:37:30  
 Interval: **3264.00 ft (KB) To 3315.00 ft (KB) (TVD)**  
 Total Depth: 3315.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Phillip Gage  
 Unit No: 62  
 Reference Elevations: 1877.00 ft (KB)  
 1869.00 ft (CF)  
 KB to GR/CF: 8.00 ft

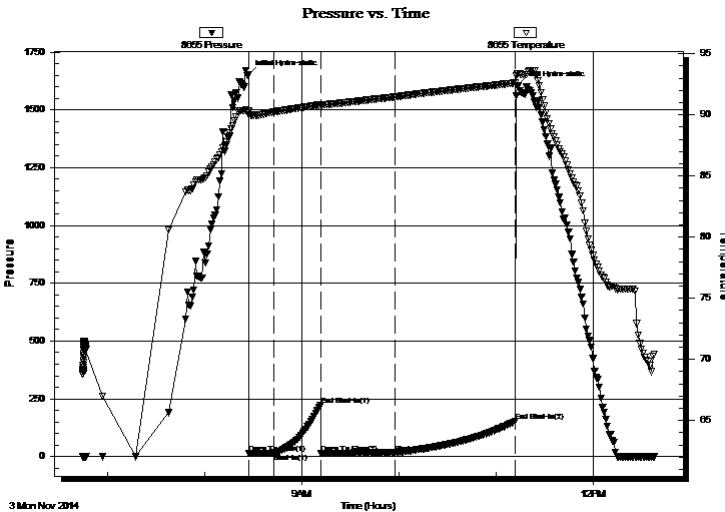
## Serial #: 8655

Outside

Press@RunDepth: 16.47 psig @ 3265.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.11.03 End Date: 2014.11.03 Last Calib.: 2014.11.03  
 Start Time: 06:45:01 End Time: 12:37:30 Time On Btm: 2014.11.03 @ 08:27:00  
 Time Off Btm: 2014.11.03 @ 11:13:00

TEST COMMENT: 15-IF-Built to 1/2"  
 30-ISI-No Return  
 45-FF-No Blow  
 75-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.53	90.32	Initial Hydro-static
1	13.20	89.98	Open To Flow (1)
16	15.40	90.25	Shut-In(1)
45	223.67	90.82	End Shut-In(1)
45	15.06	90.81	Open To Flow (2)
91	16.47	91.47	Shut-In(2)
165	153.14	92.61	End Shut-In(2)
166	1606.45	93.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	M, w ith oil spots, 100%m	0.04

\* 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 Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60725

**DST#: 4**

ATTN: Tim Lauer

Test Start: 2014.11.03 @ 06:45:00

## Tool Information

Drill Pipe:	Length: 2972.00 ft	Diameter: 3.80 inches	Volume: 41.69 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 278.00 ft	Diameter: 2.75 inches	Volume: 2.04 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: 52000.00 lb
			<u>Total Volume: 43.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3264.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3245.00	
Shut In Tool	5.00			3250.00	
Hydraulic tool	5.00			3255.00	
Packer	5.00			3260.00	20.00 Bottom Of Top Packer
Packer	4.00			3264.00	
Stubb	1.00			3265.00	
Recorder	0.00	8651	Inside	3265.00	
Recorder	0.00	8655	Outside	3265.00	
Perforations	14.00			3279.00	
Change Over Sub	1.00			3280.00	
Drill Pipe	31.00			3311.00	
Change Over Sub	1.00			3312.00	
Bullnose	3.00			3315.00	51.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60725

**DST#: 4**

ATTN: Tim Lauer

Test Start: 2014.11.03 @ 06:45:00

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.50 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M, w ith oil spots, 100%m	0.037

Total Length: 5.00 ft      Total Volume: 0.037 bbl

Num Fluid Samples: 0

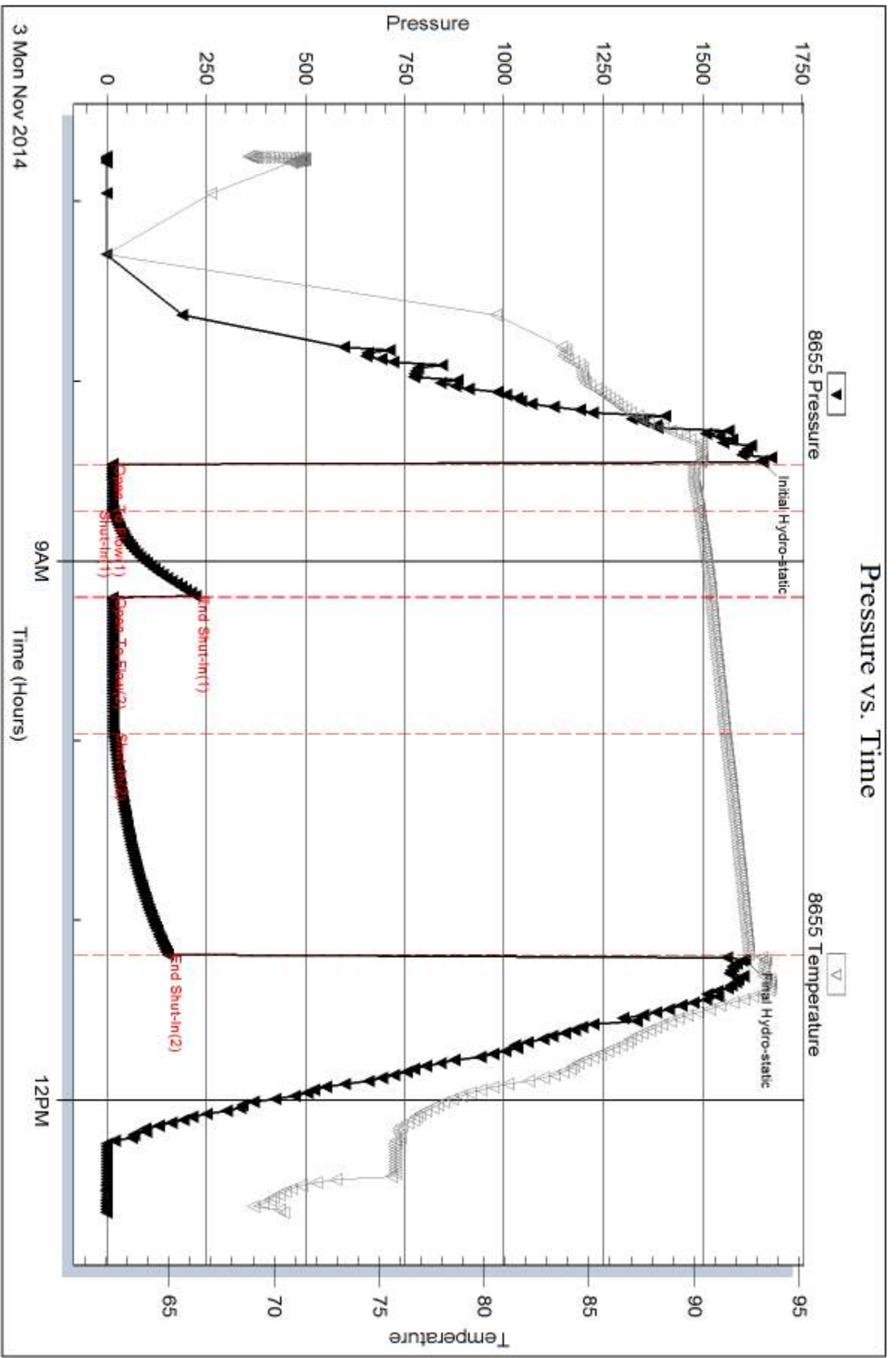
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





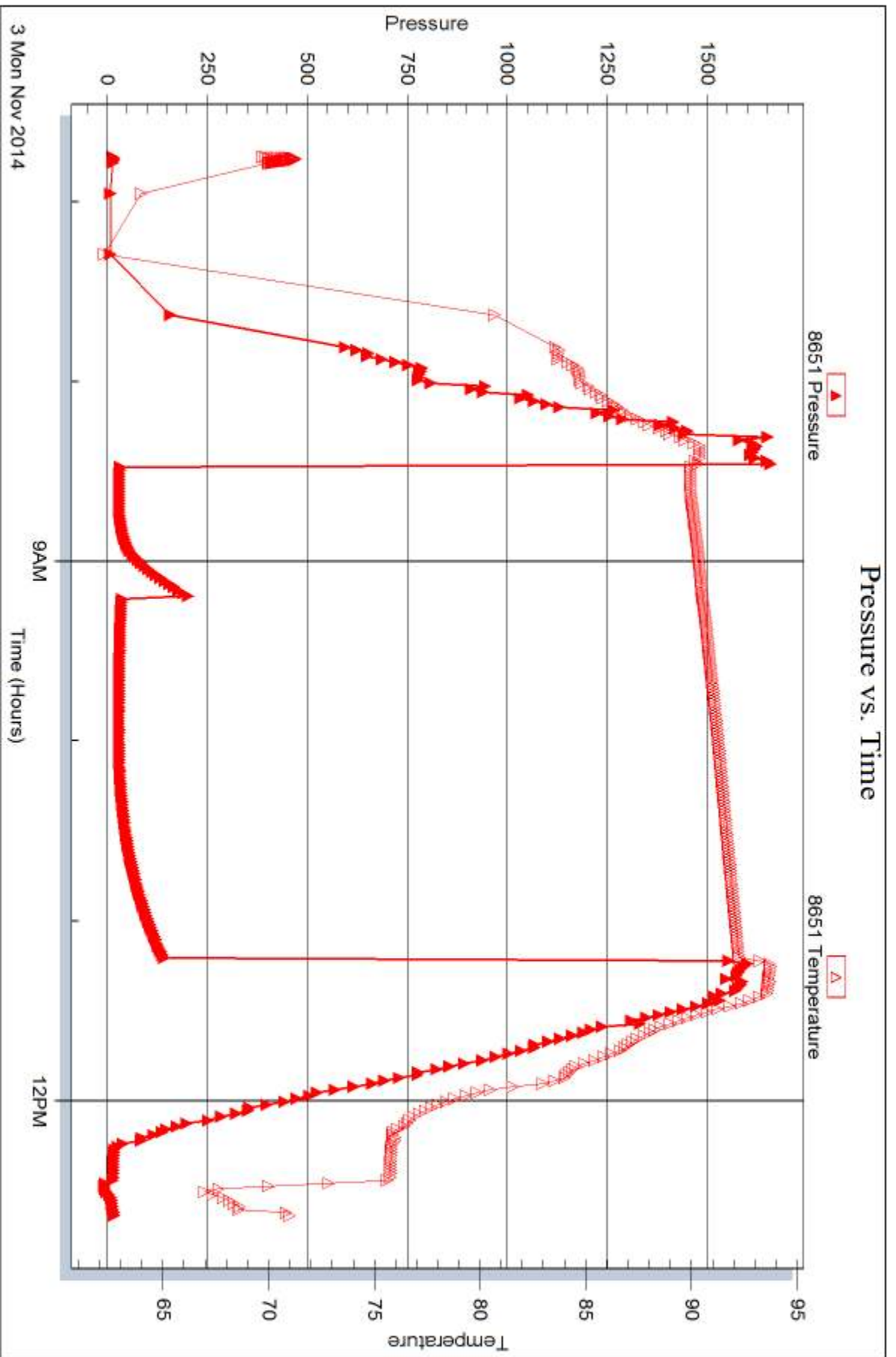
Serial #: 8651

Inside

Coral Production Corporation

Bigge #16-1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 60725

Printed: 2014.11.07 @ 15:55:51



## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corporation**

1600 Stout St STE 1500  
Denver, CO 80202

ATTN: Tim Lauer

### **Bigge #16-1**

#### **16-7s-18w Rooks,KS**

Start Date: 2014.11.03 @ 21:14:00

End Date: 2014.11.04 @ 03:53:00

Job Ticket #: 60976                      DST #: 5

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

Printed: 2014.11.07 @ 15:54:48



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60976

**DST#: 5**

ATTN: Tim Lauer

Test Start: 2014.11.03 @ 21:14:00

## GENERAL INFORMATION:

Formation: **Conglomerate**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:24:30  
 Time Test Ended: 03:53:00  
 Interval: **3340.00 ft (KB) To 3394.00 ft (KB) (TVD)**  
 Total Depth: 3394.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Phillip Gage  
 Unit No: 62  
 Reference Elevations: 1877.00 ft (KB)  
 1869.00 ft (CF)  
 KB to GR/CF: 8.00 ft

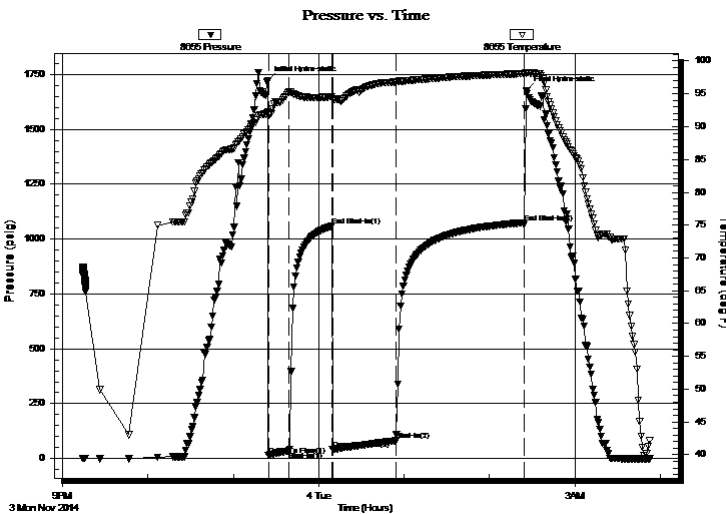
## Serial #: 8655

**Outside**

Press@RunDepth: 81.13 psig @ 3341.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.11.03 End Date: 2014.11.04 Last Calib.: 2014.11.04  
 Start Time: 21:14:01 End Time: 03:53:00 Time On Btm: 2014.11.03 @ 23:24:00  
 Time Off Btm: 2014.11.04 @ 02:26:00

TEST COMMENT: 15-IF-Built to 2 1/4"  
 30-ISI-No Return  
 45-FF-Built to 4 1/2"  
 90-FSI-No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.64	92.23	Initial Hydro-static
1	14.50	91.85	Open To Flow (1)
15	34.64	95.25	Shut-In(1)
45	1059.30	94.56	End Shut-In(1)
46	42.16	94.19	Open To Flow (2)
90	81.13	96.83	Shut-In(2)
180	1075.04	98.07	End Shut-In(2)
182	1674.72	98.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	SWCM, 10%w, 90%m	0.96

\* 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 Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60976

**DST#: 5**

ATTN: Tim Lauer

Test Start: 2014.11.03 @ 21:14:00

## Tool Information

Drill Pipe:	Length: 3066.00 ft	Diameter: 3.80 inches	Volume: 43.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 278.00 ft	Diameter: 2.75 inches	Volume: 2.04 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: 52000.00 lb
			<u>Total Volume: 45.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3340.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3321.00	
Shut In Tool	5.00			3326.00	
Hydraulic tool	5.00			3331.00	
Packer	5.00			3336.00	20.00 Bottom Of Top Packer
Packer	4.00			3340.00	
Stubb	1.00			3341.00	
Recorder	0.00	8651	Inside	3341.00	
Recorder	0.00	8655	Outside	3341.00	
Perforations	17.00			3358.00	
Change Over Sub	1.00			3359.00	
Drill Pipe	31.00			3390.00	
Change Over Sub	1.00			3391.00	
Bullnose	3.00			3394.00	54.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corporation

**16-7s-18w Rooks,KS**

1600 Stout St STE 1500  
Denver, CO 80202

**Bigge #16-1**

Job Ticket: 60976

**DST#: 5**

ATTN: Tim Lauer

Test Start: 2014.11.03 @ 21:14:00

## 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:

50000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.50 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	SWCM, 10%w, 90%m	0.955

Total Length: 130.00 ft      Total Volume: 0.955 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

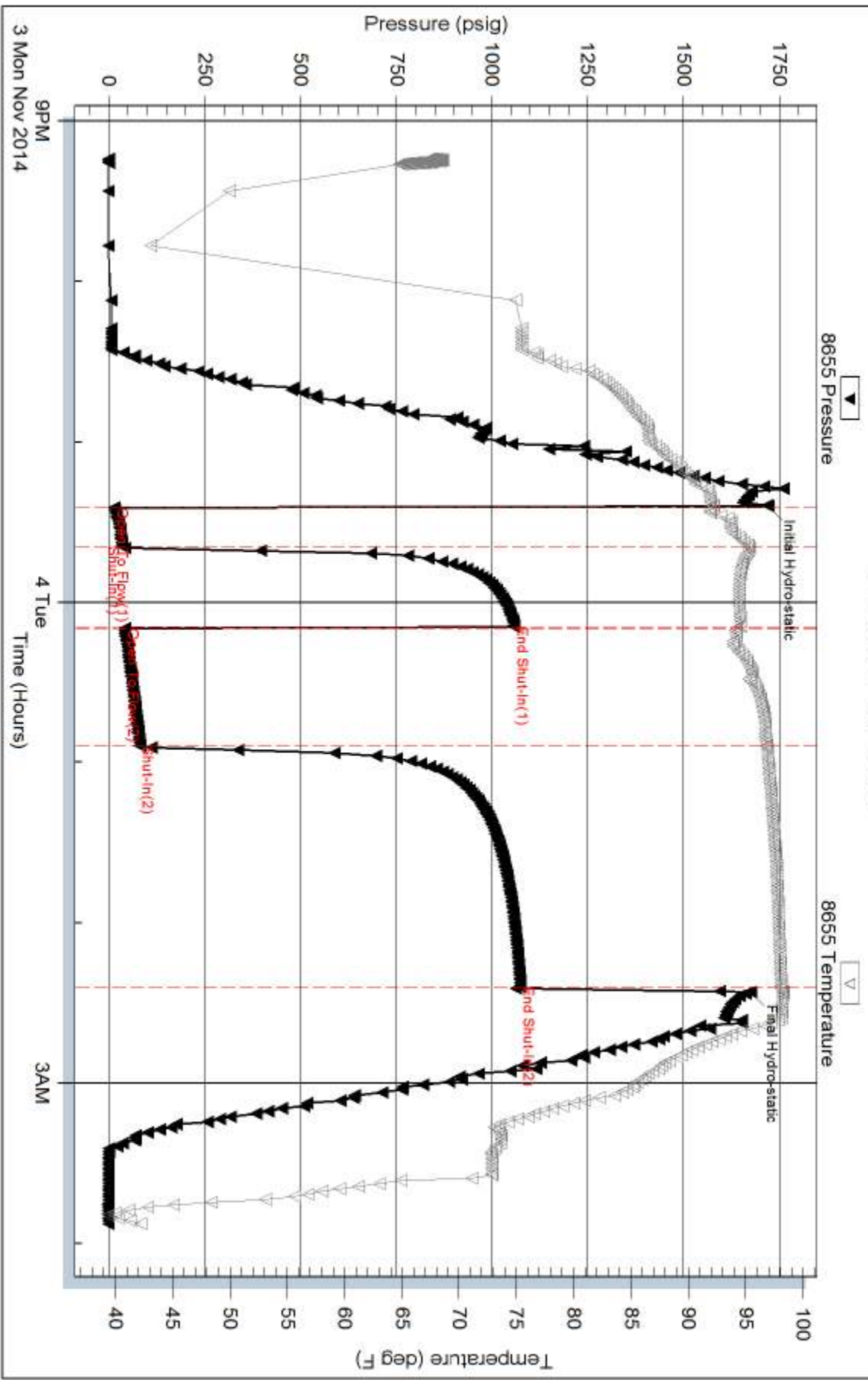
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .3 @ 38 degrees = 50,000 Salinity

### Pressure vs. Time



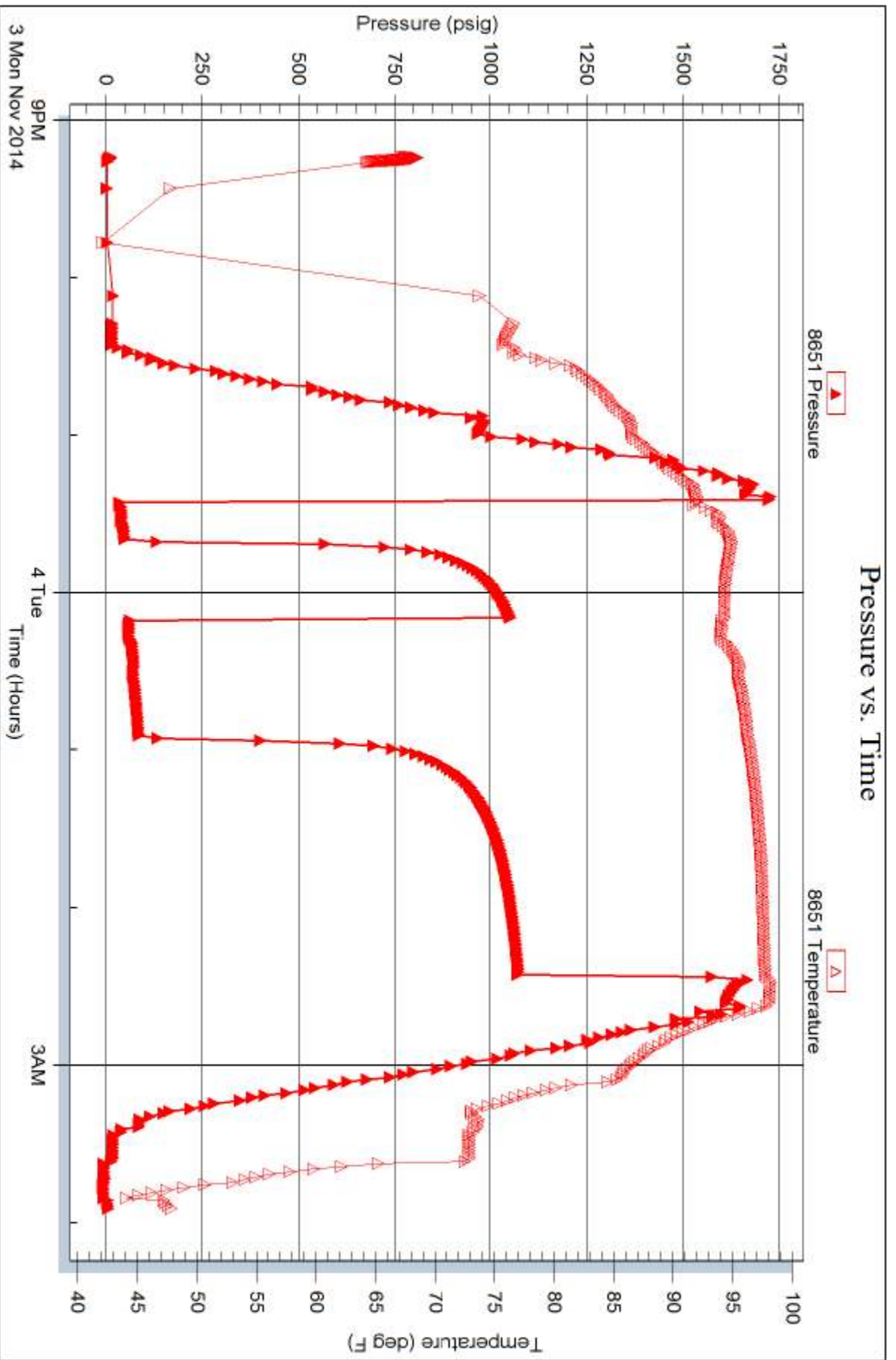
Serial #: 8651

Inside

Coral Production Corporation

Bigge #16-1

DST Test Number: 5

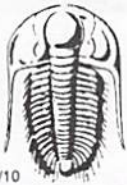


Trilobite Testing, Inc

Ref. No: 60976

Printed: 2014.11.07 @ 15:54:50





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60722

Well Name & No. Bigge #16-1 Test No. 1 Date 11-1-14  
 Company Caval Production Corporation Elevation 1877 KB 1869 GL  
 Address 1600 Stout St STE 1500 Denver, CO 80202  
 Co. Rep / Geo. Tim Lauer Rig Discovery Rig 2  
 Location: Sec. 16 Twp. 7S Rge. 18W Co. Rocks State KS

Interval Tested 3036-3180 Zone Tested Toronto - Lansing 'F'  
 Anchor Length 144' Drill Pipe Run 2751 Mud Wt. 8.8  
 Top Packer Depth 3031 Drill Collars Run 0 Vis 59  
 Bottom Packer Depth 3036 Wt. Pipe Run 278 WL 8  
 Total Depth 3180 Chlorides 500 ppm System LCM 1#  
 Blow Description IF Built to 4 1/2"  
FSE No Return  
FF Built to 8 1/2"  
FSE No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>126'</u>	<u>USWGOCM</u>	<u>5</u>	<u>10</u>	<u>5</u>	<u>80</u>
<u>20'</u>	<u>USOCM</u>		<u>5</u>		<u>95</u>
<u>5'</u>	<u>0</u>		<u>100</u>		

Rec Total 151' BHT 92 Gravity 33 API RW @ F Chlorides ppm  
 Test 1150 T-On Location 15:27  
 Jars \_\_\_\_\_ T-Started 15:57  
 Safety Joint \_\_\_\_\_ T-Open 19:04  
 Circ Sub \_\_\_\_\_ T-Pulled 22:04  
 Hourly Standby \_\_\_\_\_ T-Out 23:42  
 Mileage 92 RT 142.60 Comments \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1292.60 MP/DST Disc't \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 90

Approved By \_\_\_\_\_ Our Representative Phil's Jay Thank You

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. **60723**

4/10

Well Name & No. Bigge #16-1 Test No. 2 Date 11-2-14  
 Company Coral Production Corporation Elevation 1877 KB 1869 GL  
 Address 1600 Stout St., STE 1500 Denver, CO 80202  
 Co. Rep / Geo. Tim Lauer Rig Discovery Rig 2  
 Location: Sec. 16 Twp. 7s Rge. 18w Co. Rocks State KS

Interval Tested 3194-3255 Zone Tested Lansing "H-I"  
 Anchor Length 61' Drill Pipe Run 2910 Mud Wt. 8.8  
 Top Packer Depth 3189 Drill Collars Run 0 Vis 59  
 Bottom Packer Depth 3194 Wt. Pipe Run 278 WL 8  
 Total Depth 3255 Chlorides 500 ppm System LCM 1#

Blow Description IF Surface Blow  
FSE- No Return  
FF Weak Surface Blow, died in 8mins  
FSE- No Return

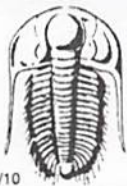
Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>M, with oil spots</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 93 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1,604  Test 1150 T-On Location 08:07  
 (B) First Initial Flow 12  Jars \_\_\_\_\_ T-Started 08:09  
 (C) First Final Flow 15  Safety Joint \_\_\_\_\_ T-Open 10:08  
 (D) Initial Shut-In 1,145  Circ Sub \_\_\_\_\_ T-Pulled 12:23  
 (E) Second Initial Flow 16  Hourly Standby \_\_\_\_\_ T-Out 13:50  
 (F) Second Final Flow 19  Mileage 92 RT 142.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,173  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,560  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1292.60  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1292.60

Approved By \_\_\_\_\_ Our Representative Mike Guy Thank You

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60724

4/10

Well Name & No. Brace #16-1 Test No. 3 Date 11-2-14  
 Company Loral Production Corporation Elevation 1877 KB 1869 GL  
 Address 1600 Stout St STE 1500 Denver, CO 80202  
 Co. Rep / Geo. Tim Lauer Rig Discovery Rig 2  
 Location: Sec. 16 Twp. 7s Rge. 18w Co. Rocks State KS

Interval Tested 3243-3275 Zone Tested Lansing 1' 5"  
 Anchor Length 32' Drill Pipe Run 2973 Mud Wt. 9.1  
 Top Packer Depth 3238 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3243 Wt. Pipe Run 278 WL 8.4  
 Total Depth 3275 Chlorides 500 ppm System LCM 1 1/2#

Blow Description IF- Built to 1/2"  
ISF- No Return  
FP- No Blow  
PSF- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>M<sub>c</sub> with oil spots</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 10' BHT 92 Gravity 1150 API RW @ F Chlorides ppm  
 (A) Initial Hydrostatic 1,638  Test 1150 T-On Location 18:53  
 (B) First Initial Flow 13  Jars \_\_\_\_\_ T-Started 18:56  
 (C) First Final Flow 18  Safety Joint \_\_\_\_\_ T-Open 20:35  
 (D) Initial Shut-In 906  Circ Sub \_\_\_\_\_ T-Pulled 22:50  
 (E) Second Initial Flow 17  Hourly Standby \_\_\_\_\_ T-Out 00:06  
 (F) Second Final Flow 21  Mileage 92 RT 142.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 951  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,649  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 15  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1292.60  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1292.60

Approved By \_\_\_\_\_ Our Representative Phil Gray Thank You

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60725

4/10

Well Name & No. Bigge #16-1 Test No. 4 Date 11-3-14  
 Company Coral Production Corporation Elevation 1877 KB 1869 GL  
 Address 1600 Stout St, STE 1500 Denver, CO 80202  
 Co. Rep / Geo. Tim Lauer Rig Discovery Rig 2  
 Location: Sec. 16 Twp. 7S Rge. 18W Co. Rocks State KS

Interval Tested 3264 - 3315 Zone Tested Lansing 1/4 + L'  
 Anchor Length 51 Drill Pipe Run 2972 Mud Wt. 9.1  
 Top Packer Depth 3259 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3264 Wt. Pipe Run 278 WL 8.4  
 Total Depth 3315 Chlorides 500 ppm System LCM 1 1/2 #

Blow Description IF - Buite to 1/2"  
ISI No Return  
FF - No Blow  
FSE No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>51</u>	<u>M, with oil spots</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

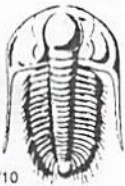
Rec Total 51 BHT 93 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1.651  Test 1150 T-On Location 06:43  
 (B) First Initial Flow 13  Jars — T-Started 06:45  
 (C) First Final Flow 15  Safety Joint — T-Open 08:28  
 (D) Initial Shut-In 223  Circ Sub — T-Pulled 11:13  
 (E) Second Initial Flow 15  Hourly Standby — T-Out 12:39  
 (F) Second Final Flow 16  Mileage 92 RT 142.60 Comments —  
 (G) Final Shut-In 153  Sampler —  
 (H) Final Hydrostatic 1.606  Straddle —  Ruined Shale Packer —

Initial Open 15  Shale Packer —  Ruined Packer —  
 Initial Shut-In 30  Extra Packer —  Extra Copies —  
 Final Flow 45  Extra Recorder — Sub Total 0  
 Final Shut-In 75  Day Standby — Total 1292.60  
 Accessibility — MP/DST Disc't —  
 Sub Total 1292.60

Approved By — Our Representative Phil's Gas Thank You

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60976

4/10

Well Name & No. Bigge #16-1 Test No. 5 Date 11-3-14  
 Company Coral Production Corporation Elevation 1877 KB 1869 GL  
 Address 1600 Stout St, STE 1500  
 Co. Rep / Geo. Tim Lawer Rig Discovery Rig 2  
 Location: Sec. 16 Twp. 7S Rge. 18w Co. Rocks State KS

Interval Tested 3340-3344 Zone Tested Conglomerate  
 Anchor Length 55' Drill Pipe Run 3066 Mud Wt. 9.1  
 Top Packer Depth 3335 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 3340 Wt. Pipe Run 278 WL 8.8  
 Total Depth 3394 Chlorides 500 ppm System LCM 1 1/2 #  
 Blow Description IF- Buite to 2 1/4"  
FSI No Return  
FF- Buite to 4 1/2"  
FSI No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>130'</u>	<u>SWCM</u>			<u>10%</u>	<u>90%</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 130' BHT 98 Gravity — API RW 3 @ 38° F Chlorides 50,000 ppm  
 (A) Initial Hydrostatic 1,720  Test 1150 T-On Location 21:11  
 (B) First Initial Flow 14  Jars T-Started 21:14  
 (C) First Final Flow 34  Safety Joint T-Open 23:25  
 (D) Initial Shut-In 1,059  Circ Sub T-Pulled 02:25  
 (E) Second Initial Flow 42  Hourly Standby T-Out 03:55  
 (F) Second Final Flow 81  Mileage 92 RT x 2 142.60 Comments Loaded Tools on  
 (G) Final Shut-In 1,075  Sampler 142.60 11-4-14 @ 13:00  
 (H) Final Hydrostatic 1,674  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies  
 Extra Recorder Sub Total 0  
 Day Standby Total 1435.20  
 Accessibility MP/DST Disc't  
 Sub Total 1435.20

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 90

Approved By \_\_\_\_\_ Our Representative Phil Lawer Thank You

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# Tim J. Lauer

## Petroleum Geologist

Office 316.832.0530  
Cell 316.253.1275

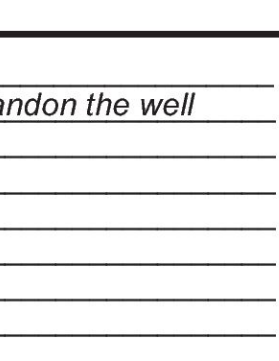
### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY	Coral Production Corporation	
LEASE	#16-1 Bigge	
FIELD		
LOCATION	555' FSL, 1405' FEL of Section	
SEC	16	TWSP 7s RGE 18W
COUNTY	Rooks	STATE Kansas
CONTRACTOR	Discovery Drilling Rig #2	
SPUD	10-27-2014	COMP 11-4-2014
RTD	3428'	LTD 3428'
MUD UP	2660'	TYPE MUD Chemical
SAMPLES SAVED FROM	2700' TO RTD	
DRILLING TIME KEPT FROM	2700' TO RTD	
SAMPLES EXAMINED FROM	2700' TO RTD	
GEOLOGICAL SUPERVISION FROM	2750' to RTD	
GEOLOGIST ON WELL	Tim J. Lauer	

ELEVATIONS	KB 1877'
DF	
GL	1869'
Measurements Are All From	Kelly Bushing
CASING	
CONDUCTOR	13-3/8" @ 54'
SURFACE	8-5/8" @ 1332'
PRODUCTION	none
ELECTRICAL SURVEYS	Nabors: OH Sonic Log (Engr: Ian Mabb)

FORMATION TOPS	ELECTRIC LOG	SAMPLE LOG
Anhydrite	1331 (+546)	1326 (+551)
Topeka	2835 (-958)	2836 (-959)
Heebner	3041 (-1164)	3043 (-1166)
Toronto	3064 (-1187)	3066 (-1189)
Lansing	3081 (-1204)	3082 (-1205)
Base Ks. City	3305 (-1428)	3306 (-1429)
Arbuckle	3386 (-1509)	3387 (-1510)
Total Depth	3428 (-1551)	3428 (-1551)

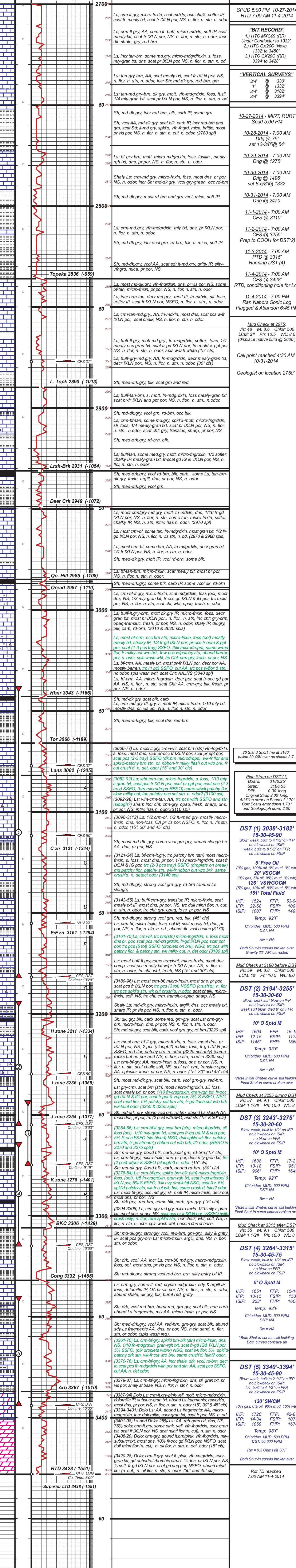


REMARKS  
Due to DST results and log analysis, operator elected plug and abandon the well without further testing the location.

Respectfully submitted,  
*Tim J. Lauer*  
Tim J. Lauer  
11-4-2014

### LEGEND

Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite
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20 Stand Short Trip at 3180' pulled 20-40K over on stands 2-7

Pipe Strap on DST (1)  
Board: 3186.25'  
Strap: 3186.55'  
Diff: 0.30' long  
Original Strap 2.00' long  
Addition error on Board of 1.70' Cor Board error down 1.70' and Geograph down 2.00'

DST (1) 3038'-3182'  
15-30-45-90  
Blow: weak, built to 4 1/2" on IFF  
no blowback on ISIP;  
weak, built to 8 1/2" on FFP  
no blowback on FSIP

5' Free Oil  
10% gas, 100% oil, 90% mud, 0% wtr  
20' VSOCM  
0% gas, 5% oil, 95% mud, 0% wtr  
126' VSWGOCM  
5% gas, 10% oil, 80% mud, 5% wtr  
151' Total Fluid

IHP: 1524 FFP: 53-94  
IFP: 22-58 FSIP: 1097  
ISIP: 1087 FHP: 1495  
Temp: 92°F  
Chlorides: MUD: 500 PPM  
DST: NA  
Rw = NA

Both Shut-in curves broken over Gravity 33' after corrected

Mud Check at 3180 before DST:  
vis: 57 wt: 8.8 Chlor: 500  
LCM: 1 1/2# Ph: 10.5 WL: 8.0

DST (3) 3194'-3255'  
15-30-30-60  
Blow: weak, built to 2 1/2" on IFF  
no blowback on ISIP;  
no blow on FFP;  
no blowback on FSIP

10' O Sptd M  
IHP: 1604 FFP: 16-19  
IFP: 12-15 FSIP: 1173  
ISIP: 1145\* FHP: 1560  
Temp: 93°F  
Chlorides: MUD: 500 PPM  
DST: NA  
Rw = NA

\*Note Initial Shut-in curve still building, Final Shut-in curve broken over

Mud Check at 3255 during DST:  
vis: 57 wt: 9.1 Chlor: 500  
LCM: 1 1/2# Ph: 10.0 WL: 8.4

DST (4) 3264'-3315'  
15-30-45-75  
Blow: weak, built to 2 1/2" on IFF  
no blowback on ISIP;  
no blow on FFP;  
no blowback on FSIP

5' O Sptd M  
IHP: 1651 FFP: 15-16  
IFP: 13-15 FSIP: 1537  
ISIP: 223\* FHP: 1606  
Temp: 93°F  
Chlorides: MUD: 500 PPM  
DST: NA  
Rw = NA

\*Both Shut-in curves still building, Both curves concave up

DST (5) 3340'-3394'  
15-30-45-90  
Blow: weak, built to 2 1/2" on IFF  
no blowback on ISIP;  
fair, built to 4 1/2" on FFP  
no blowback on FSIP

130' SWCM  
IHP: 1720 FFP: 42-81  
IFP: 14-34 FSIP: 1075  
ISIP: 1059 FHP: 1674  
Temp: 98°F  
Chlorides: MUD: 500 PPM  
DST: 50,000 PPM  
Rw = 0.3 Ohms @ 38F

Both Shut-in curves broken over

Rot TD reached 7:00 AM 11-4-2014

COMPANY & WELL	Coral Prod Corp #16-1 Bigge
LOCATION	555' FSL, 1405' FEL of Section
SEC	16 TWSP 7s RGE 18W
COUNTY	Rooks STATE Kansas

ELEVATIONS	KB 1877'
GL	1869'

