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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Coral Production Corp**

1600 Stout St Ste 1500  
Denver Colo 80202

ATTN: Jim Weber

**35-21-14-Stafford-Ks**

**Bordewick #1**

Start Date: 2003.10.11 @ 16:00:35

End Date: 2003.10.12 @ 01:58:05

Job Ticket #: 18885                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Coral Production Corp

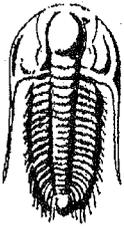
Bordewick #1

35-21-14-Stafford-Ks

DST # 1

H-I-J

2003.10.11



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Coral Production Corp  
 1600 Stout St Ste 1500  
 Denver Colo 80202  
 ATTN: Jim Weber

**Bordewick #1**  
**35-21-14-Stafford-Ks**  
 Job Ticket: 18885 **DST#: 1**  
 Test Start: 2003.10.11 @ 16:00:35

0000: 70848-681-21

**GENERAL INFORMATION:**

Formation: **H-I-J**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: **18:20:35**  
 Time Test Ended: **01:58:05**  
**Interval: 3585.00 ft (KB) To 3650.00 ft (KB) (TVD)**  
 Total Depth: **3650.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

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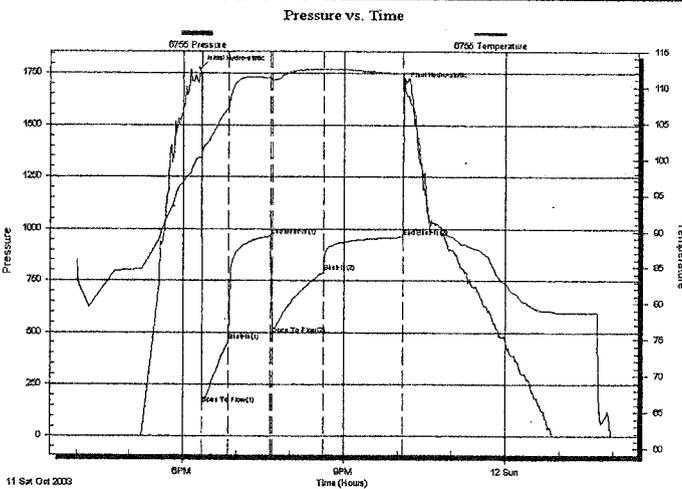
Test Type: **Conventional Bottom Hole**  
 Tester: **Dan Bangle**  
 Unit No: **21**  
 Reference Elevations: **1940.00 ft (KB)**  
**1932.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

**Serial #: 6755**

**Inside**

Press@RunDepth: **790.56 psig @ 3592.00 ft (KB)** Capacity: **7000.00 psig**  
 Start Date: **2003.10.11** End Date: **2003.10.12** Last Calib.: **2003.10.12**  
 Start Time: **16:00:36** End Time: **01:58:05** Time On Btm: **2003.10.11 @ 18:18:05**  
 Time Off Btm: **2003.10.11 @ 22:06:35**

**TEST COMMENT:** IF-Strong BOB in 1 min  
 IS-Strong BOB in 8 min GTS in 20 min  
 FF-Strong BOB 3 min GTS TSTM  
 FSI-Strong BOB in 7 min



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.17	100.23	Initial Hydro-static
3	155.18	100.68	Open To Flow (1)
33	458.54	107.23	Shut-In(1)
80	965.39	111.22	End Shut-In(1)
81	490.50	111.05	Open To Flow (2)
139	790.56	112.44	Shut-In(2)
227	960.61	111.87	End Shut-In(2)
229	1690.69	112.09	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
2235.00	CGsyO 40%g 60%o	31.08
0.00	GTS	0.00

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Coral Production Corp  
1600 Stout St Ste 1500  
Denver Colo 80202  
ATTN: Jim Weber

**Bordewick #1**  
**35-21-14-Stafford-Ks**  
Job Ticket: 18885      **DST#: 1**  
Test Start: 2003.10.11 @ 16:00:35

**Tool Information**

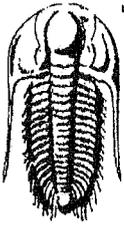
Drill Pipe:	Length: 3567.00 ft	Diameter: 3.80 inches	Volume: 50.04 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 50.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3585.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3565.00	
Shut In Tool	5.00			3570.00	
Hydraulic tool	5.00			3575.00	
Packer	5.00			3580.00	21.00      Bottom Of Top Packer
Packer	5.00			3585.00	
Stubb	1.00			3586.00	
Perforations	5.00			3591.00	
Change Over Sub	1.00			3592.00	
Recorder	0.00	6755	Inside	3592.00	
Blank Spacing	32.00			3624.00	
Change Over Sub	1.00			3625.00	
Recorder	0.00	13254	Outside	3625.00	
Perforations	22.00			3647.00	
Bullnose	3.00			3650.00	65.00      Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Coral Production Corp  
1600 Stout St Ste 1500  
Denver Colo 80202  
ATTN: Jim Weber

**Bordewick #1**  
**35-21-14-Stafford-Ks**  
Job Ticket: 18885      DST#: 1  
Test Start: 2003.10.11 @ 16:00:35

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 25 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.42 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
2235.00	CGsyO 40%g 60%o	31.078
0.00	GTS	0.000

Total Length: 2235.00 ft      Total Volume: 31.078 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

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40-51868-241-21

DST Test Number: 1

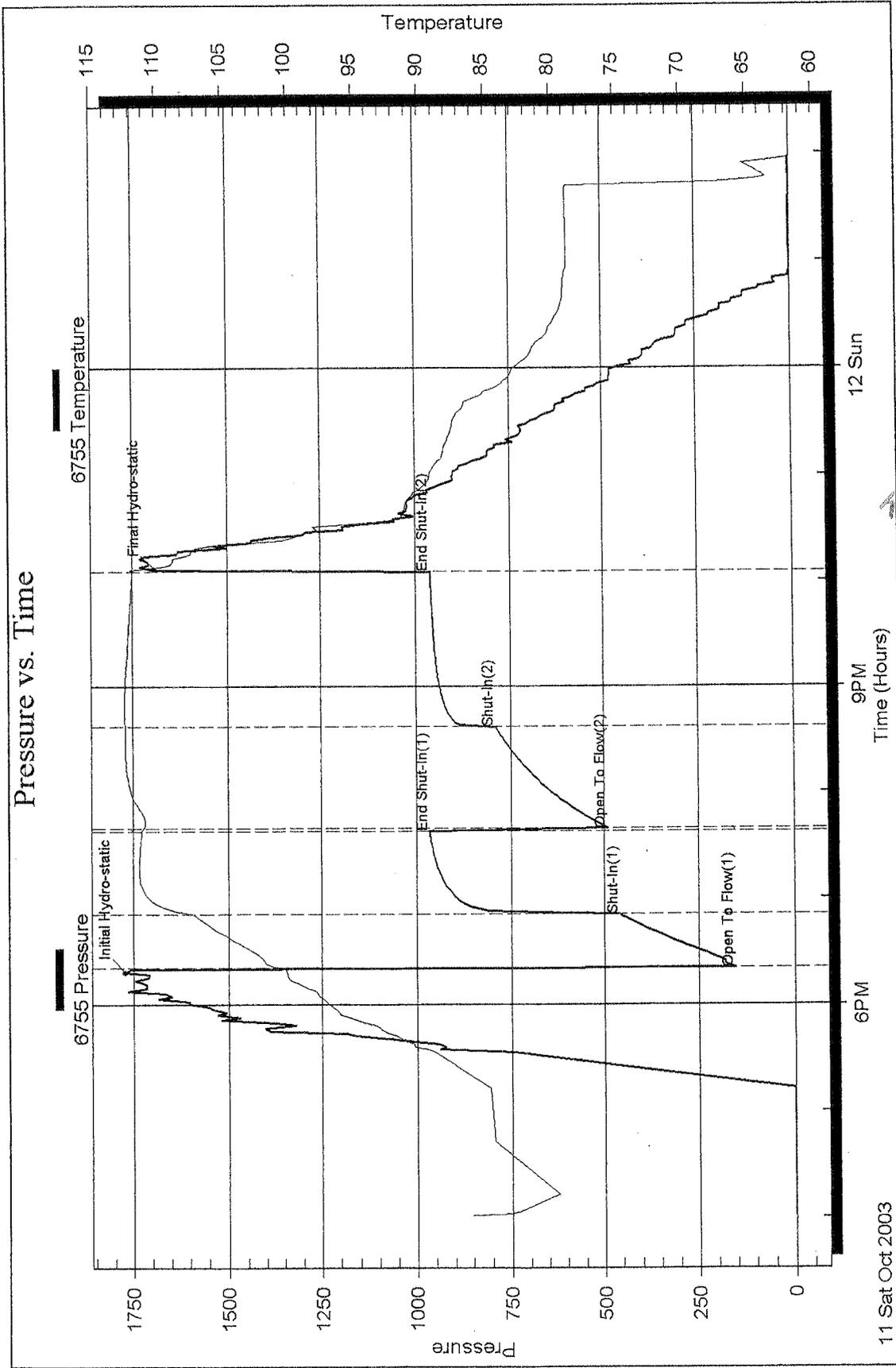
35-21-14-Stafford-Ks

Coral Production Corp

Inside

Serial #: 6755

### Pressure vs. Time



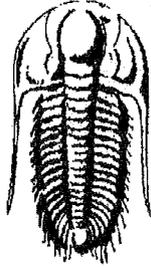
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**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp**

1600 Stout St Ste 1500  
Denver Colo 80202

ATTN: Jim Weber

**35-21-14-Stafford-Ks**

**Bordewick #1**

Start Date: 2003.10.12 @ 13:30:44

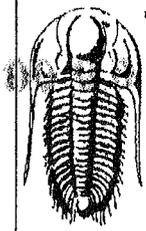
End Date: 2003.10.12 @ 19:00:44

Job Ticket #: 18886                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Coral Production Corp  
 1600 Stout St Ste 1500  
 Denver Colo 80202  
 ATTN: Jim Weber

**Bordewick #1**  
**35-21-14-Stafford-Ks**  
 Job Ticket: 18886      **DST#: 2**  
 Test Start: 2003.10.12 @ 13:30:44

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 15:12:14  
 Time Test Ended: 19:00:44  
 Interval: **3678.00 ft (KB) To 3732.00 ft (KB) (TVD)**  
 Total Depth: **3732.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Good

Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 21  
 Reference Elevations: 1940.00 ft (KB)  
 1932.00 ft (CF)  
 KB to GR/CF: 8.00 ft

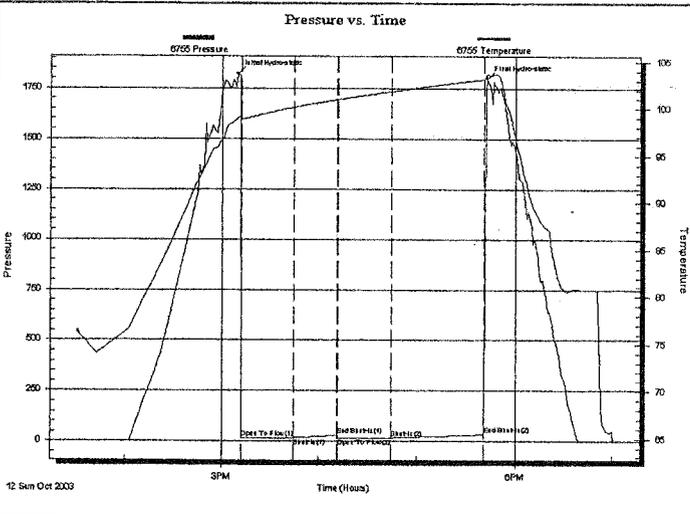
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## Serial #: 6755

Inside

Press@RunDepth: 17.89 psig @ 3685.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2003.10.12      End Date: 2003.10.12      Last Calib.: 2003.10.12  
 Start Time: 13:30:45      End Time: 19:00:44      Time On Btm: 2003.10.12 @ 15:09:44  
 Time Off Btm: 2003.10.12 @ 17:42:44

TEST COMMENT: IF-Weak died in 20 min  
 FF-No blow  
 Times-30-30-30-60



## PRESSURE SUMMARY

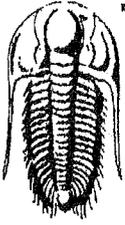
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.68	99.06	Initial Hydro-static
3	15.65	98.86	Open To Flow (1)
35	17.77	100.13	Shut-In (1)
61	31.57	100.94	End Shut-In (1)
62	17.09	100.96	Open To Flow (2)
95	17.89	101.84	Shut-In (2)
151	34.12	103.14	End Shut-In (2)
153	1796.11	103.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	DM	0.05

## Gas Rates

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



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Coral Production Corp  
1600 Stout St Ste 1500  
Denver Colo 80202  
ATTN: Jim Weber

**Bordewick #1**  
**35-21-14-Stafford-Ks**  
Job Ticket: 18886      **DST#: 2**  
Test Start: 2003.10.12 @ 13:30:44

**Tool Information**

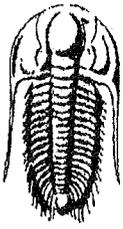
Drill Pipe:	Length: 3662.00 ft	Diameter: 3.80 inches	Volume: 51.37 bbl	Tool Weight: 1600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 51.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3678.00 ft			Final 38000.00 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:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3658.00	
Shut In Tool	5.00			3663.00	
Hydraulic tool	5.00			3668.00	
Packer	5.00			3673.00	21.00      Bottom Of Top Packer
Packer	5.00			3678.00	
Stubb	1.00			3679.00	
Perforations	5.00			3684.00	
Change Over Sub	1.00			3685.00	
Recorder	0.00	6755	Inside	3685.00	
Blank Spacing	30.00			3715.00	
Change Over Sub	1.00			3716.00	
Recorder	0.00	13254	Outside	3716.00	
Perforations	13.00			3729.00	
Bullnose	3.00			3732.00	54.00      Bottom Packers & Anchor

**Total Tool Length: 75.00**

**15-185-23207-0000**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Coral Production Corp

**Bordewick #1**

1600 Stout St Ste 1500  
Denver Colo 80202

**35-21-14-Stafford-Ks**

Job Ticket: 18886

**DST#: 2**

ATTN: Jim Weber

Test Start: 2003.10.12 @ 13:30:44

**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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	DM	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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DST Test Number: 2

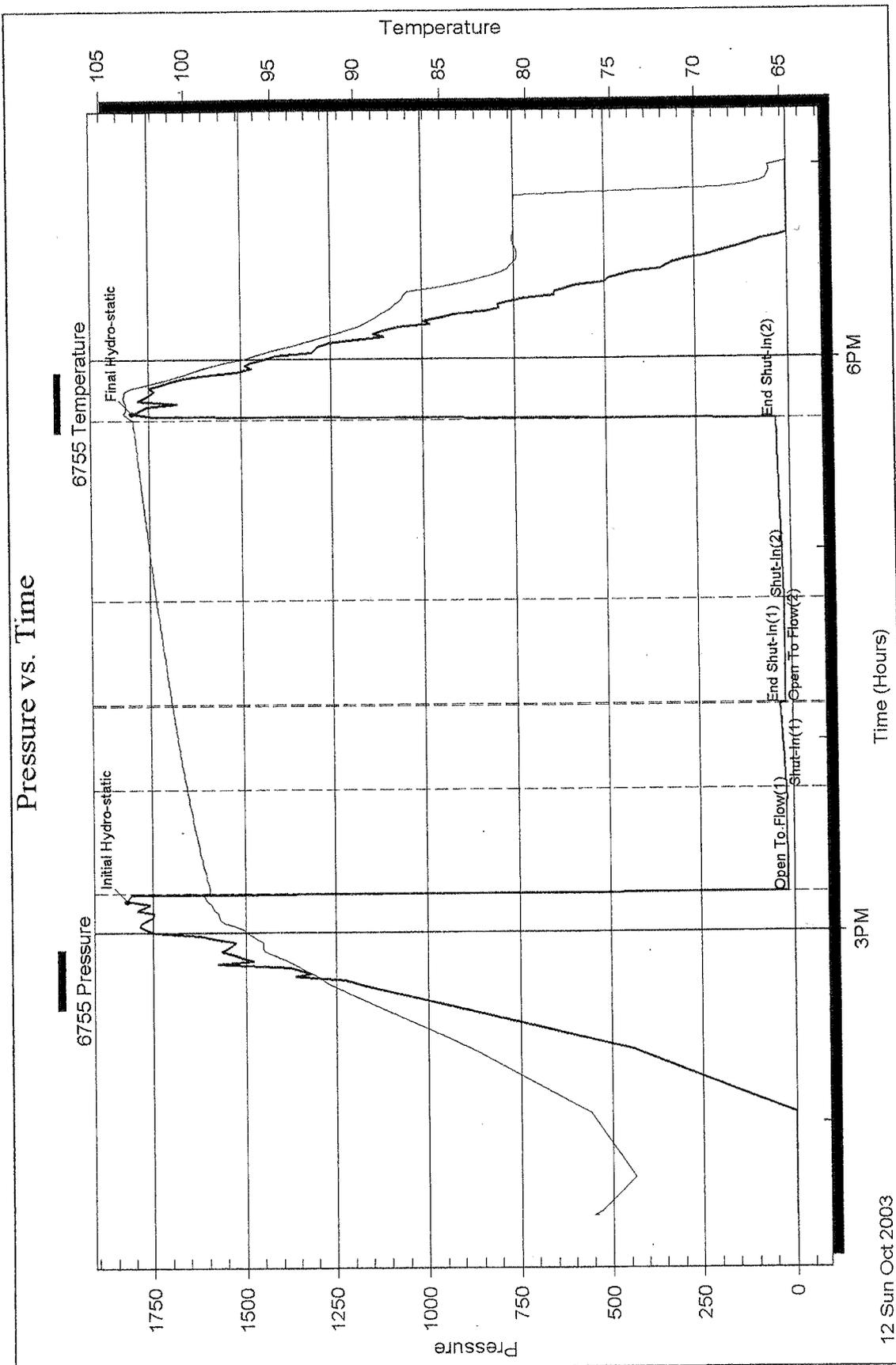
35-21-14-Stafford-Ks

Coral Production Corp

Inside

Serial #: 6755

### Pressure vs. Time

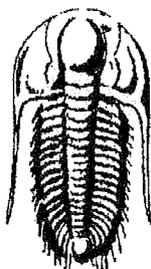


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TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Coral Production Corp**

1600 Stout St Ste 1500  
Denver Colo 80202

ATTN: Jim Weber

**35-21-14-Stafford-Ks**

**Bordewick #1**

Start Date: 2003.10.13 @ 07:10:29

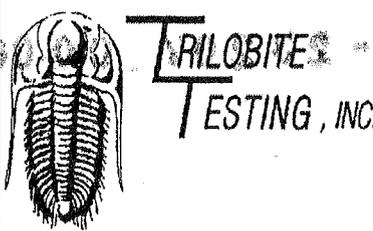
End Date: 2003.10.13 @ 14:50:29

Job Ticket #: 18887                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



# DRILL STEM TEST REPORT

Coral Production Corp  
 1600 Stout St Ste 1500  
 Denver Colo 80202  
 ATTN: Jim Weber

**Bordewick #1**  
**35-21-14-Stafford-Ks**  
 Job Ticket: 18887      **DST#: 3**  
 Test Start: 2003.10.13 @ 07:10:29

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 09:00:00  
 Time Test Ended: 14:50:29  
 Interval: **3796.00 ft (KB) To 3802.00 ft (KB) (TVD)**  
 Total Depth: **3802.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**  
 Tester: **Dan Bangle**  
 Unit No: **21**  
 Reference Elevations: **1940.00 ft (KB)**  
**1932.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

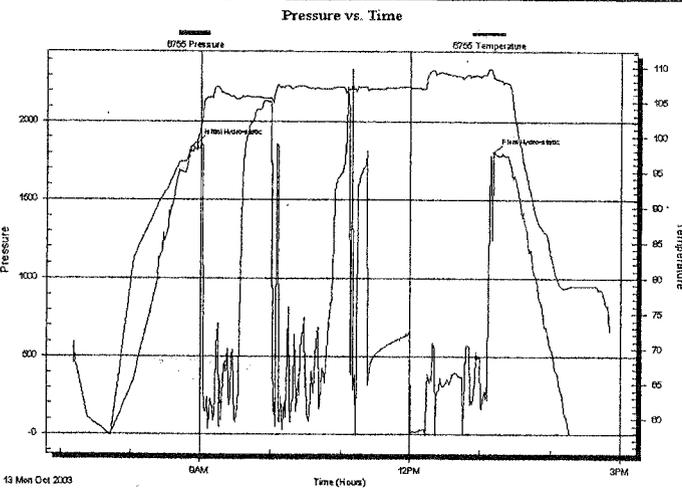
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**KCC WICHITA**

## Serial #: 6755

Inside

Press@RunDepth:	psig @	3797.00 ft (KB)	Capacity:	7000.00 psig	
Start Date:	2003.10.13	End Date:	2003.10.13	Last Calib.:	2003.10.13
Start Time:	07:10:30	End Time:	14:50:29	Time On Btm:	2003.10.13 @ 08:56:59
				Time Off Btm:	2003.10.13 @ 13:11:29

**TEST COMMENT:** Hit bridge @ 3616 - slid tool 5' - tool 10' from bottom - weak surging blow died in 30 min  
 FF-Weak blow - flushed tool - weak blow died in 2 min  
 Times-30-30-30-30-



## PRESSURE SUMMARY

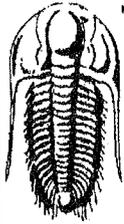
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1859.25	99.24	Initial Hydro-static
255	1803.40	108.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	DM	0.29

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Coral Production Corp  
1600 Stout St Ste 1500  
Denver Colo 80202  
ATTN: Jim Weber

**Bordewick #1**  
**35-21-14-Stafford-Ks**  
Job Ticket: 18887      **DST#: 3**  
Test Start: 2003.10.13 @ 07:10:29

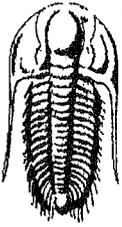
**Tool Information**

Drill Pipe:	Length: 3754.00 ft	Diameter: 3.80 inches	Volume: 52.66 bbl	Tool Weight: 1000.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 120000.0 lb
		<b>Total Volume:</b>	<b>52.81 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3796.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	27.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3776.00	
Shut In Tool	5.00			3781.00	
Hydraulic tool	5.00			3786.00	
Packer	5.00			3791.00	21.00 Bottom Of Top Packer
Packer	5.00			3796.00	
Stubb	1.00			3797.00	
Recorder	0.00	6755	Inside	3797.00	
Perforations	2.00			3799.00	
Recorder	0.00	13254	Outside	3799.00	
Bullnose	3.00			3802.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>27.00</b>				

15-185-23207-0000



**TRIOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral Production Corp

**Bordewick #1**

1600 Stout St Ste 1500  
Denver Colo 80202

**35-21-14-Stafford-Ks**

Job Ticket: 18887

**DST#: 3**

ATTN: Jim Weber

Test Start: 2003.10.13 @ 07:10:29

### 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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	DM	0.288

Total Length: 40.00 ft

Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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DST Test Number: 3

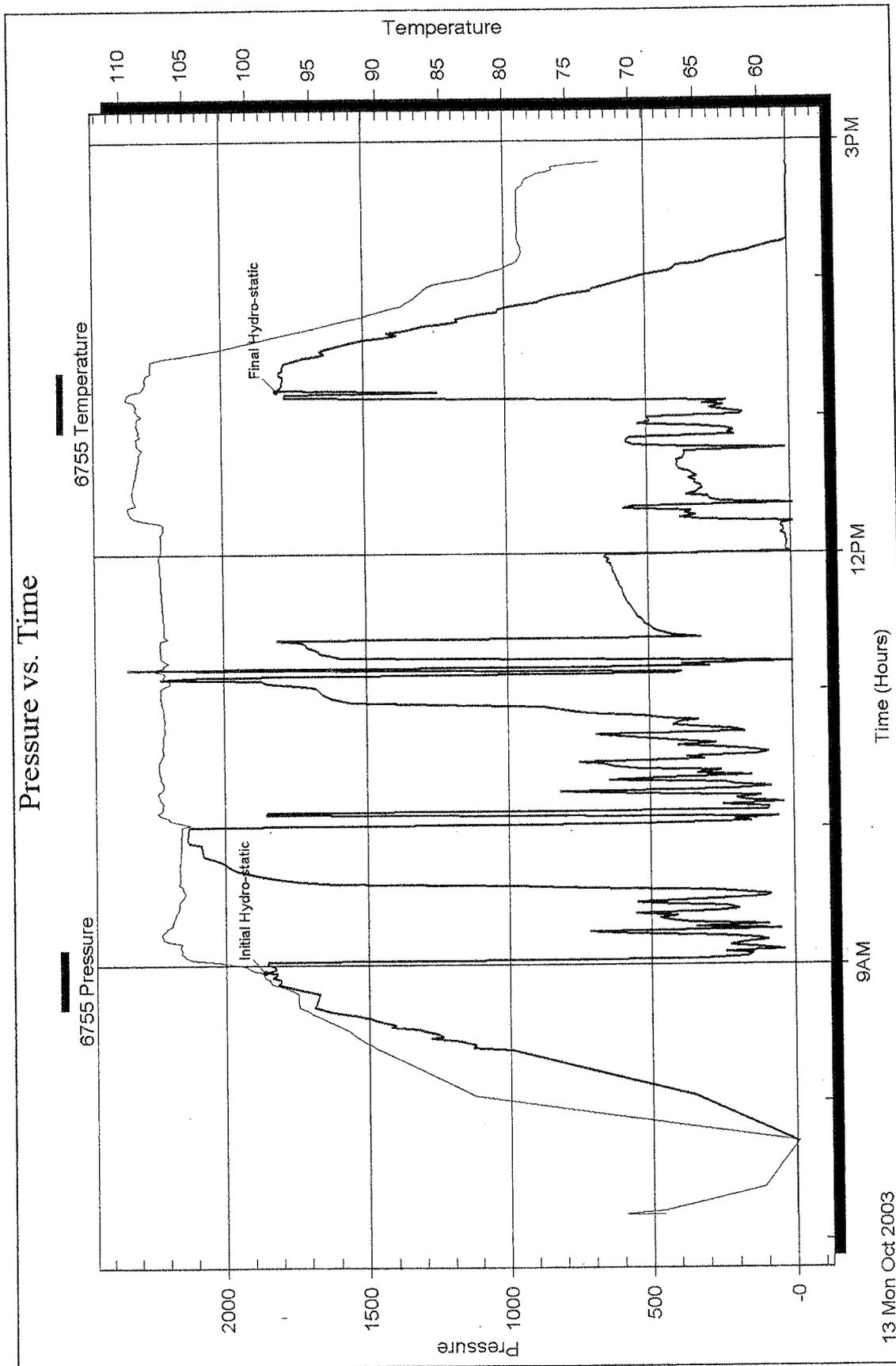
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Coral Production Corp

Inside

Serial #: 6755

### Pressure vs. Time



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