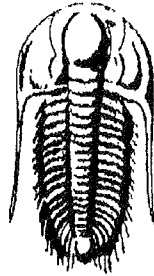


2-11s-24w

02-11s-24w  
NE SW SE



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Prepared For: **Coral**

1600 Stout St.  
Denver, Co  
80202

ATTN: Rich Hall

**2 11 24 Trego KS**

**Hollandworth #2-1**

Start Date: 2008.08.16 @ 03:39:17

End Date: 2008.08.16 @ 11:12:11

Job Ticket #: 32460      DST #: 1

15-195-22558

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**SEP 05 2008**

CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Coral

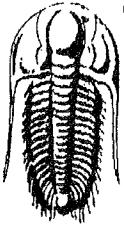
Hollandworth #2-1

2 11 24 Trego KS

DST # 1

LKC "C"

2008.08.16



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Coral  
1600 Stout St.  
Denver, Co  
80202  
ATTN: Rich Hall

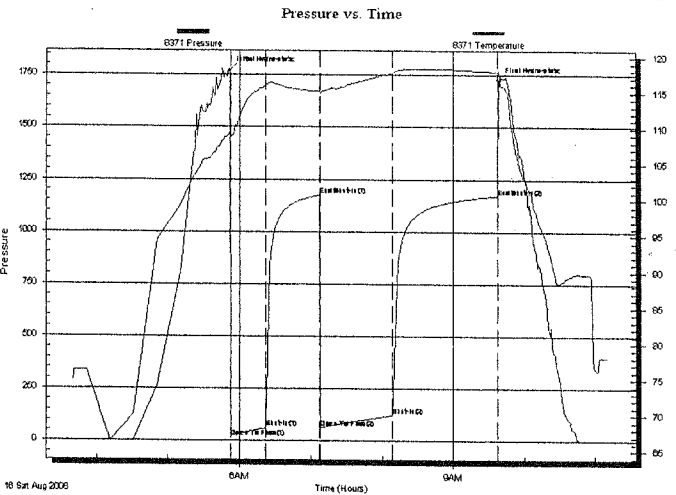
**Hollandworth #2-1**  
**2 11 24 Trego KS**  
Job Ticket: 32460      **DST#: 1**  
Test Start: 2008.08.16 @ 03:39:17

**GENERAL INFORMATION:**

Formation: **LKC "C"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 05:52:42  
Time Test Ended: 11:12:11  
Interval: **3696.00 ft (KB) To 3717.00 ft (KB) (TVD)**  
Total Depth: 3717.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition:  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 41  
Reference Elevations: 2320.00 ft (KB)  
2312.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8371 Outside**  
Press@RunDepth: 120.55 psig @ 3699.00 ft (KB) Capacity: 7000.00 psig  
Start Date: 2008.08.16 End Date: 2008.08.16 Last Calib.: 2008.08.16  
Start Time: 03:39:17 End Time: 11:12:11 Time On Btm: 2008.08.16 @ 05:52:12  
Time Off Btm: 2008.08.16 @ 09:37:41

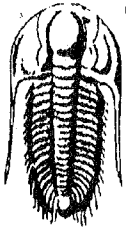
**TEST COMMENT:** IFP weak to good blow 1/2" - 8"  
ISI no blow back  
FFP BOB 54 min.  
FSI no blow back



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1768.04	109.54	Initial Hydro-static
1	16.80	108.76	Open To Flow (1)
29	59.57	115.94	Shut-In (1)
75	1173.29	115.18	End Shut-In (1)
76	62.27	114.82	Open To Flow (2)
136	120.55	117.69	Shut-In (2)
225	1170.97	117.91	End Shut-In (2)
226	1724.69	118.03	Final Hydro-static

Length (ft)	Description	Volume (bbl)
221.00	MW 85%W, 15%M	2.82
1.00	FREE OIL 95%O, 5%M	0.01

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Coral  
1600 Stout St.  
Denver, Co  
80202  
ATTN: Rich Hall

**Hollandworth #2-1**  
**2 11 24 Trego KS**  
Job Ticket: 32460      **DST#: 1**  
Test Start: 2008.08.16 @ 03:39:17

**Tool Information**

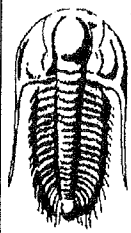
Drill Pipe:	Length: 3658.00 ft	Diameter: 3.80 inches	Volume: 51.31 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
		<b>Total Volume:</b>	<b>51.46 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3696.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	43.00 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			3679.00	
Hydraulic tool	5.00			3684.00	
Safety Joint	2.00			3686.00	
Packer	5.00			3691.00	22.00 Bottom Of Top Packer
Packer	5.00			3696.00	
Stubb	1.00			3697.00	
Perforations	2.00			3699.00	
Recorder	0.00	8018	Inside	3699.00	
Recorder	0.00	8371	Outside	3699.00	
Perforations	15.00			3714.00	
Bullnose	3.00			3717.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 43.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Coral **Hollandworth #2-1**  
 1600 Stout St. **2 11 24 Trego KS**  
 Denver, Co Job Ticket: 32460 **DST#: 1**  
 80202 Test Start: 2008.08.16 @ 03:39:17  
 ATTN: Rich Hall

## 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:	500 ppm
Viscosity: 70.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 500.00 ppm			
Filter Cake: inches			

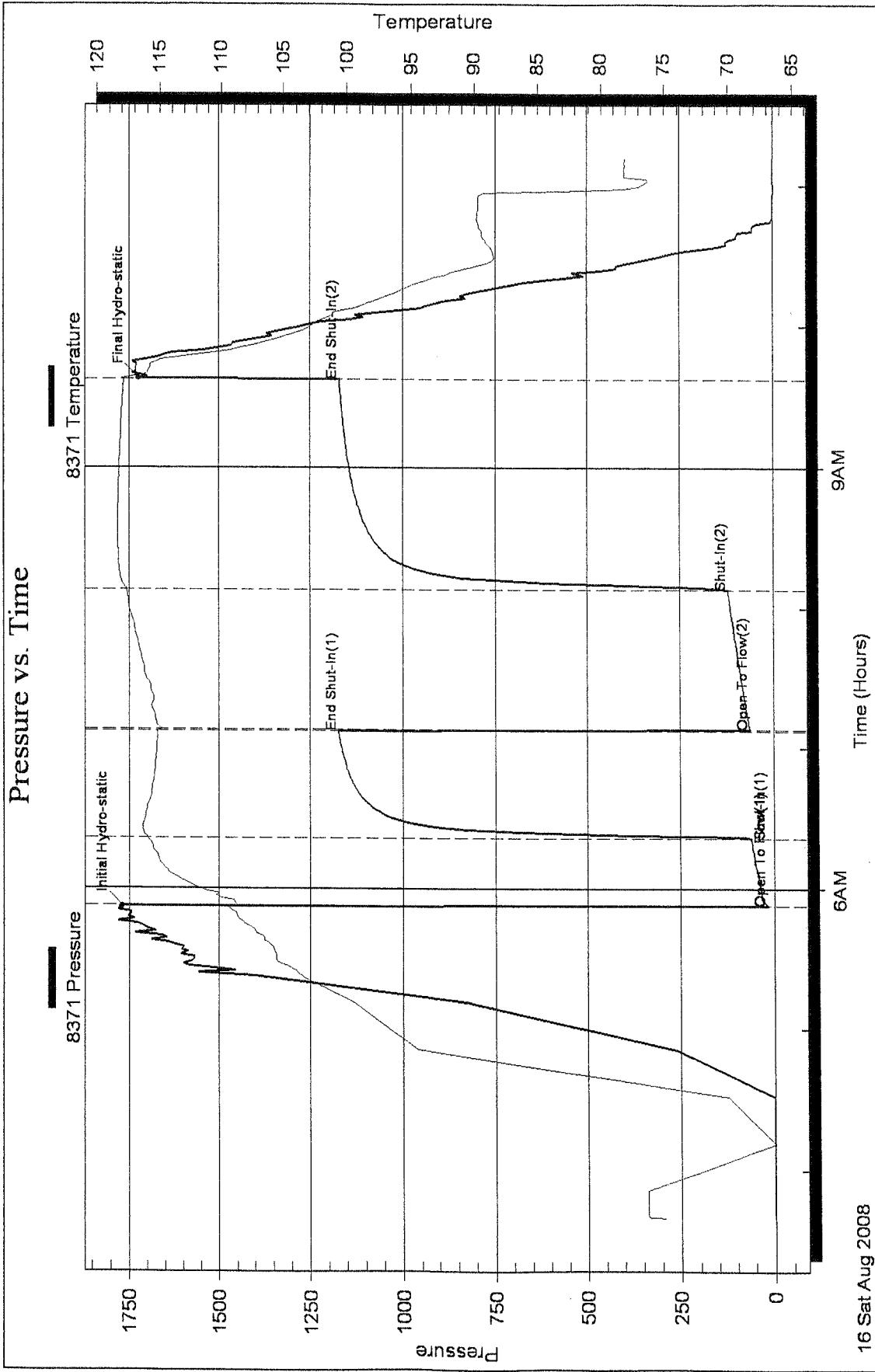
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
221.00	MW 85%W, 15%M	2.818
1.00	FREE OIL 95%O, 5%M	0.014

Total Length: 222.00 ft      Total Volume: 2.832 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW .093 @ 93 recovery 70,000 Chlorides

### Pressure vs. Time

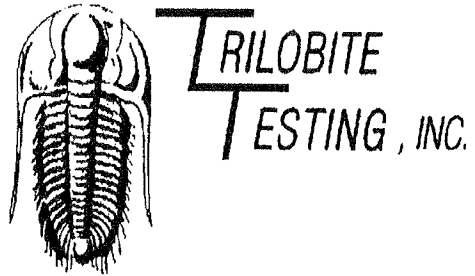


16 Sat Aug 2008

6AM

9AM

Time (Hours)



## DRILL STEM TEST REPORT

Prepared For: **Coral**

1600 Stout St.  
Denver, Co  
80202

ATTN: Rich Hall

**2 11 24 Trego KS**

**Hollandworth #2-1**

Start Date: 2008.08.16 @ 18:56:26

End Date: 2008.08.17 @ 02:45:56

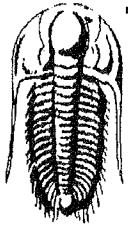
Job Ticket #: 32461                      DST #: 2

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**SEP 05 2008**

CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

Coral  
1600 Stout St.  
Denver, Co  
80202  
ATTN: Rich Hall

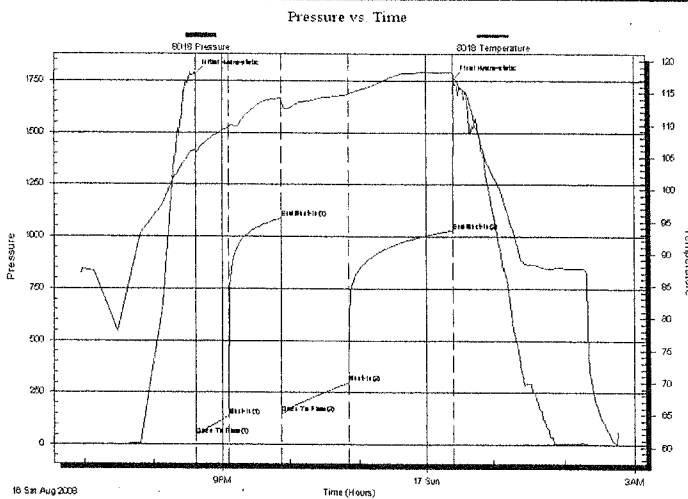
**Hollandworth #2-1**  
**2 11 24 Trego KS**  
Job Ticket: 32461      DST#: 2  
Test Start: 2008.08.16 @ 18:56:26

## GENERAL INFORMATION:

Formation: LKC "D-F"  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:36:56  
Time Test Ended: 02:45:56  
Interval: 3718.00 ft (KB) To 3767.00 ft (KB) (TVD)  
Total Depth: 3767.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition:  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 41  
Reference Elevations: 2320.00 ft (KB)  
2312.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8018**      **Inside**  
Press@RunDepth: 297.19 psig @ 3722.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2008.08.16      End Date: 2008.08.17      Last Calib.: 2008.08.17  
Start Time: 18:56:31      End Time: 02:45:55      Time On Btm: 2008.08.16 @ 20:36:26  
Time Off Btm: 2008.08.17 @ 00:24:56

TEST COMMENT: IFP BOB 8 min  
ISI no blow back  
FFP BOB 13 min  
FSI no blow back



## PRESSURE SUMMARY

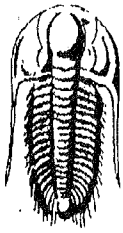
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.45	106.08	Initial Hydro-static
1	42.41	105.64	Open To Flow (1)
29	137.10	109.59	Shut-In(1)
76	1087.19	114.13	End Shut-In(1)
76	152.36	113.69	Open To Flow (2)
135	297.19	114.73	Shut-In(2)
228	1030.34	118.15	End Shut-In(2)
229	1758.28	117.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
575.00	Muddy Water 90%W 10%M	7.78

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Coral  
1600 Stout St.  
Denver, Co  
80202  
ATTN: Rich Hall

**Hollandworth #2-1**  
**2 11 24 Trego KS**  
Job Ticket: 32461      **DST#: 2**  
Test Start: 2008.08.16 @ 18:56:26

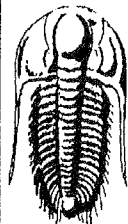
**Tool Information**

Drill Pipe:	Length: 3690.00 ft	Diameter: 3.80 inches	Volume: 51.76 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<b>Total Volume: 51.91 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3718.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 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
Shut In Tool	5.00			3701.00	
Hydraulic tool	5.00			3706.00	
Safety Joint	2.00			3708.00	
Packer	5.00			3713.00	22.00      Bottom Of Top Packer
Packer	5.00			3718.00	
Stubb	1.00			3719.00	
Perforations	2.00			3721.00	
Change Over Sub	1.00			3722.00	
Recorder	0.00	8018	Inside	3722.00	
Recorder	0.00	8371	Outside	3722.00	
Blank Spacing	31.00			3753.00	
Change Over Sub	1.00			3754.00	
Perforations	10.00			3764.00	
Bullnose	3.00			3767.00	49.00      Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Coral  
1600 Stout St.  
Denver, Co  
80202  
ATTN: Rich Hall

Hollandworth #2-1  
2 11 24 Trego KS  
Job Ticket: 32461      DST#: 2  
Test Start: 2008.08.16 @ 18:56:26

## 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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

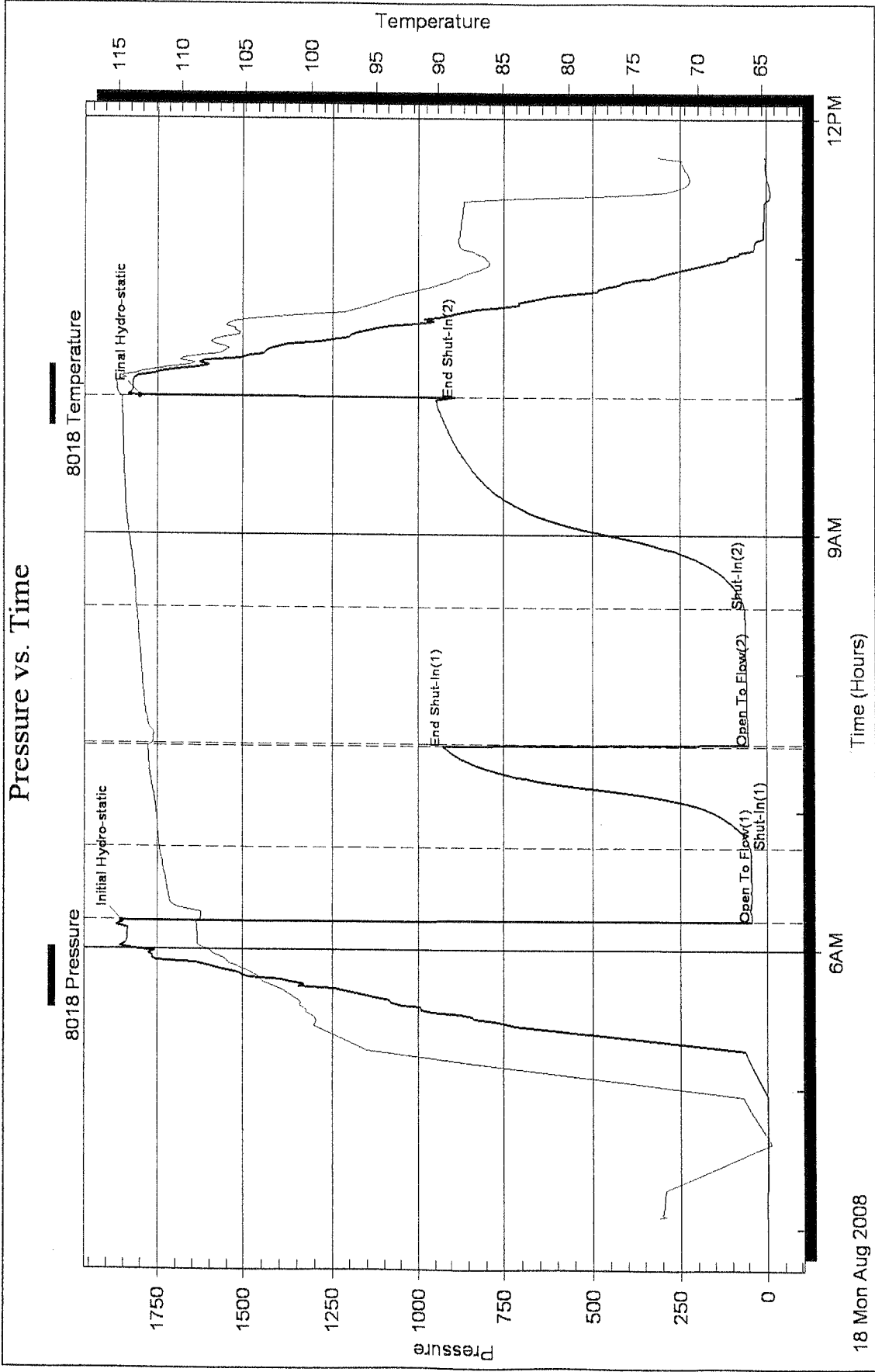
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
575.00	Muddy Water 90%W 10%M	7.783

Total Length: 575.00 ft      Total Volume: 7.783 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time

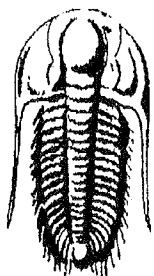


18 Mon Aug 2008

6AM

9AM

12PM



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Coral**

1600 Stout St.  
Denver, Co  
80202

ATTN: Rich Hall

**2 11 24 Trego KS**

**Hollandworth #2-1**

Start Date: 2008.08.18 @ 04:04:38

End Date: 2008.08.18 @ 11:43:08

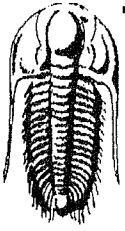
Job Ticket #: 33040                      DST #: 3

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**SEP 05 2008**

CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Coral  
1600 Stout St.  
Denver, Co  
80202  
ATTN: Rich Hall

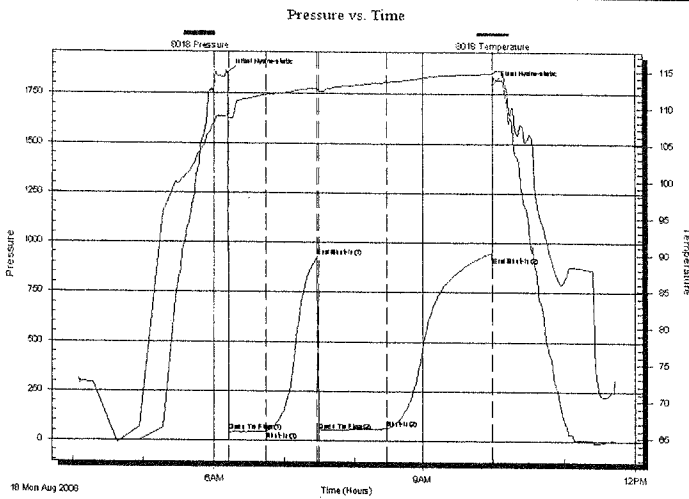
**Hollandworth #2-1**  
**2 11 24 Trego KS**  
Job Ticket: 33040      **DST#: 3**  
Test Start: 2008.08.18 @ 04:04:38

## GENERAL INFORMATION:

Formation: **Lkc "H-K"**  
Deviated: **No** Whipstock: **ft (KB)**      Test Type: **Conventional Bottom Hole**  
Time Tool Opened: **06:12:38**      Tester: **Brett Dickinson**  
Time Test Ended: **11:43:08**      Unit No: **41**  
**Interval: 3804.00 ft (KB) To 3888.00 ft (KB) (TVD)**      Reference Elevations: **2320.00 ft (KB)**  
Total Depth: **3888.00 ft (KB) (TVD)**      **2312.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition:      **KB to GR/CF: 8.00 ft**

**Serial #: 8018**      **Inside**  
Press@RunDepth: **63.12 psig @ 3810.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2008.08.18**      End Date: **2008.08.18**      Last Calib.: **2008.08.18**  
Start Time: **04:04:43**      End Time: **11:43:07**      Time On Btm: **2008.08.18 @ 06:12:08**  
Time Off Btm: **2008.08.18 @ 09:59:37**

**TEST COMMENT:** IF Built to a 8in blow  
ISI Surface blow died in 12min  
FF BoB in 18min  
FSI Surface blow died in 19min



## PRESSURE SUMMARY

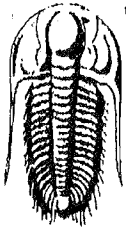
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.57	108.90	Initial Hydro-static
1	41.87	108.47	Open To Flow (1)
32	45.63	111.74	Shut-In(1)
76	926.18	112.63	End Shut-In(1)
77	48.87	112.29	Open To Flow (2)
137	63.12	113.55	Shut-In(2)
227	889.56	114.67	End Shut-In(2)
228	1800.40	114.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
105.00	MCO 55% M 40%O 5%G	1.19

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Coral  
1600 Stout St.  
Denver, Co  
80202  
ATTN: Rich Hall

**Hollandworth #2-1**  
**2 11 24 Trego KS**  
Job Ticket: 33040      **DST#: 3**  
Test Start: 2008.08.18 @ 04:04:38

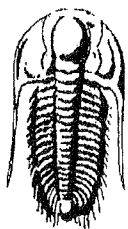
### Tool Information

Drill Pipe:	Length: 3782.00 ft	Diameter: 3.80 inches	Volume: 53.05 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
		<b>Total Volume:</b>	<b>53.20 bbl</b>	Tool Chased: ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3804.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	106.00 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			3787.00	
Hydraulic tool	5.00			3792.00	
Safety Joint	2.00			3794.00	
Packer	5.00			3799.00	22.00      Bottom Of Top Packer
Packer	5.00			3804.00	
Stubb	1.00			3805.00	
Perforations	5.00			3810.00	
Recorder	0.00	8018	Inside	3810.00	
Recorder	0.00	8371	Outside	3810.00	
Change Over Sub	1.00			3811.00	
Blank Spacing	63.00			3874.00	
Change Over Sub	1.00			3875.00	
Perforations	10.00			3885.00	
Bullnose	3.00			3888.00	84.00      Bottom Packers & Anchor

**Total Tool Length: 106.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Coral  
1600 Stout St.  
Denver, Co  
80202  
ATTN: Rich Hall

Hollandworth #2-1  
**2 11 24 Trego KS**  
Job Ticket: 33040      DST#: 3  
Test Start: 2008.08.18 @ 04:04:38

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	MCO 55% M 40%O 5%G	1.190

Total Length: 105.00 ft      Total Volume: 1.190 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time

