



## DRILL STEM TEST REPORT

Prepared For: **Brito Oil Company**

250 N Water STE 300  
Wichita KS 67202

ATTN: Brad Rine

### **Four Boys #1-28**

### **28-4S-37W Cheyenne KS**

Start Date: 2019.05.19 @ 07:36:00

End Date: 2019.05.19 @ 15:37:01

Job Ticket #: 65362                      DST #: 1

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

Printed: 2019.05.24 @ 14:18:13



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Brito Oil Company  
250 N Water STE 300  
Wichita KS 67202  
ATTN: Brad Rine

**28-4S-37W Cheyenne KS**  
**Four Boys #1-28**  
Job Ticket: 65362      **DST#: 1**  
Test Start: 2019.05.19 @ 07:36:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC A**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:31:16  
 Time Test Ended: 15:37:01  
 Interval: **4207.00 ft (KB) To 4280.00 ft (KB) (TVD)**  
 Total Depth: 4280.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shawn Wheelbarger  
 Unit No: 76  
 Reference Elevations: 3386.00 ft (KB)  
 3381.00 ft (CF)  
 KB to GR/CF: 5.00 ft

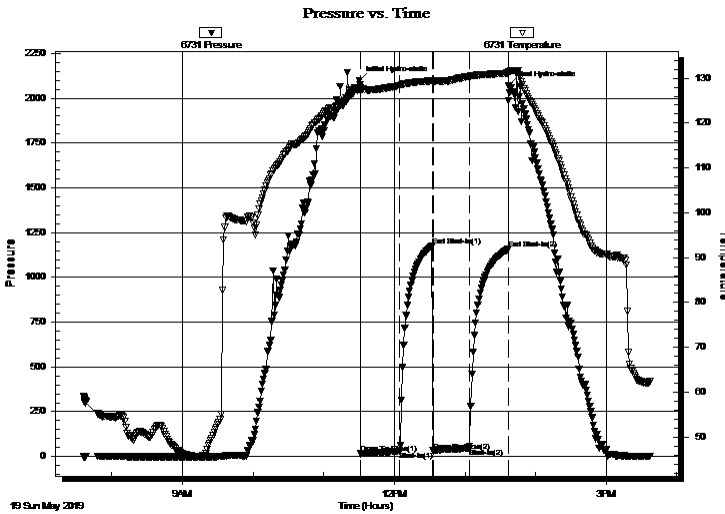
## Serial #: 6731

Inside

Press@RunDepth: 44.94 psig @ 4208.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.05.19      End Date: 2019.05.19      Last Calib.: 2019.05.19  
 Start Time: 07:36:01      End Time: 15:37:01      Time On Btm: 2019.05.19 @ 11:30:31  
 Time Off Btm: 2019.05.19 @ 13:37:16

TEST COMMENT: 30-IF-No blow back  
 30-ISI-No blow  
 30-FF-No blow  
 30-FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.03	127.62	Initial Hydro-static
1	15.35	127.12	Open To Flow (1)
35	29.82	128.38	Shut-In(1)
62	1178.42	129.43	End Shut-In(1)
63	30.59	129.19	Open To Flow (2)
94	44.94	130.39	Shut-In(2)
126	1156.90	131.13	End Shut-In(2)
127	2068.15	131.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
58.00	100% Mud	0.29

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Brito Oil Company  
250 N Water STE 300  
Wichita KS 67202  
ATTN: Brad Rine

**28-4S-37W Cheyenne KS**  
**Four Boys #1-28**  
Job Ticket: 65362 **DST#: 1**  
Test Start: 2019.05.19 @ 07:36:00

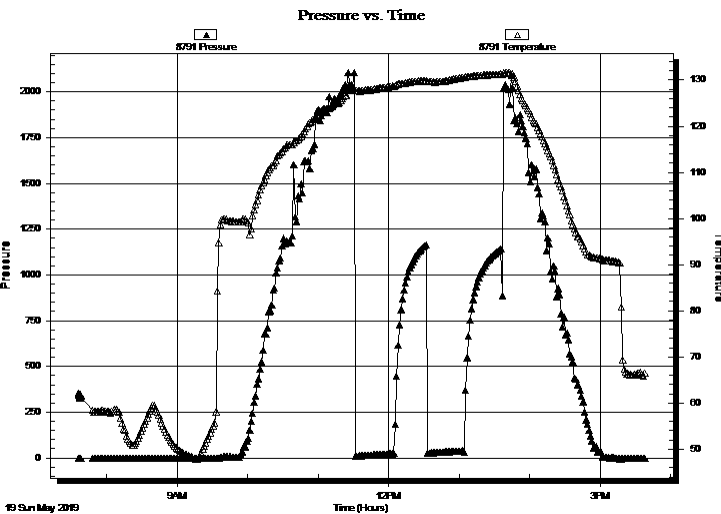
**GENERAL INFORMATION:**

Formation: **Toronto - LKC A**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:31:16  
Time Test Ended: 15:37:01  
Interval: **4207.00 ft (KB) To 4280.00 ft (KB) (TVD)**  
Total Depth: 4280.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Shawn Wheelbarger  
Unit No: 76  
Reference Elevations: 3386.00 ft (KB)  
3381.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8791**

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig  
Start Date: 2019.05.19 End Date: 2019.05.19 Last Calib.: 2019.05.19  
Start Time: 07:36:01 End Time: 15:38:16 Time On Btm:  
Time Off Btm:

TEST COMMENT: 30-IF-No blow back  
30-ISI-No blow  
30-FF-No blow  
30-FSI-No blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
58.00	100% Mud	0.29

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brito Oil Company

**28-4S-37W Cheyenne KS**

250 N Water STE 300  
Wichita KS 67202

**Four Boys #1-28**

Job Ticket: 65362

**DST#: 1**

ATTN: Brad Rine

Test Start: 2019.05.19 @ 07:36:00

## Tool Information

Drill Pipe:	Length: 4039.00 ft	Diameter: 3.80 inches	Volume: 56.66 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 57.53 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4207.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	73.00 ft				
Tool Length:	94.00 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			4187.00	
Shut In Tool	5.00			4192.00	
Hydraulic tool	5.00		Inside	4197.00	
Packer	5.00			4202.00	21.00 Bottom Of Top Packer
Packer	5.00			4207.00	
Packer - Shale	0.00			4207.00	
Stubb	1.00			4208.00	
Recorder	0.00	8645	Outside	4208.00	
Recorder	0.00	6731	Inside	4208.00	
Perforations	36.00			4244.00	
Change Over Sub	1.00			4245.00	
Blank Spacing	31.00			4276.00	
Change Over Sub	1.00			4277.00	
Bullnose	3.00			4280.00	73.00 Bottom Packers & Anchor

**Total Tool Length: 94.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brito Oil Company

**28-4S-37W Cheyenne KS**

250 N Water STE 300  
Wichita KS 67202

**Four Boys #1-28**

Job Ticket: 65362

**DST#: 1**

ATTN: Brad Rine

Test Start: 2019.05.19 @ 07:36:00

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	100% Mud	0.285

Total Length: 58.00 ft      Total Volume: 0.285 bbl

Num Fluid Samples: 0

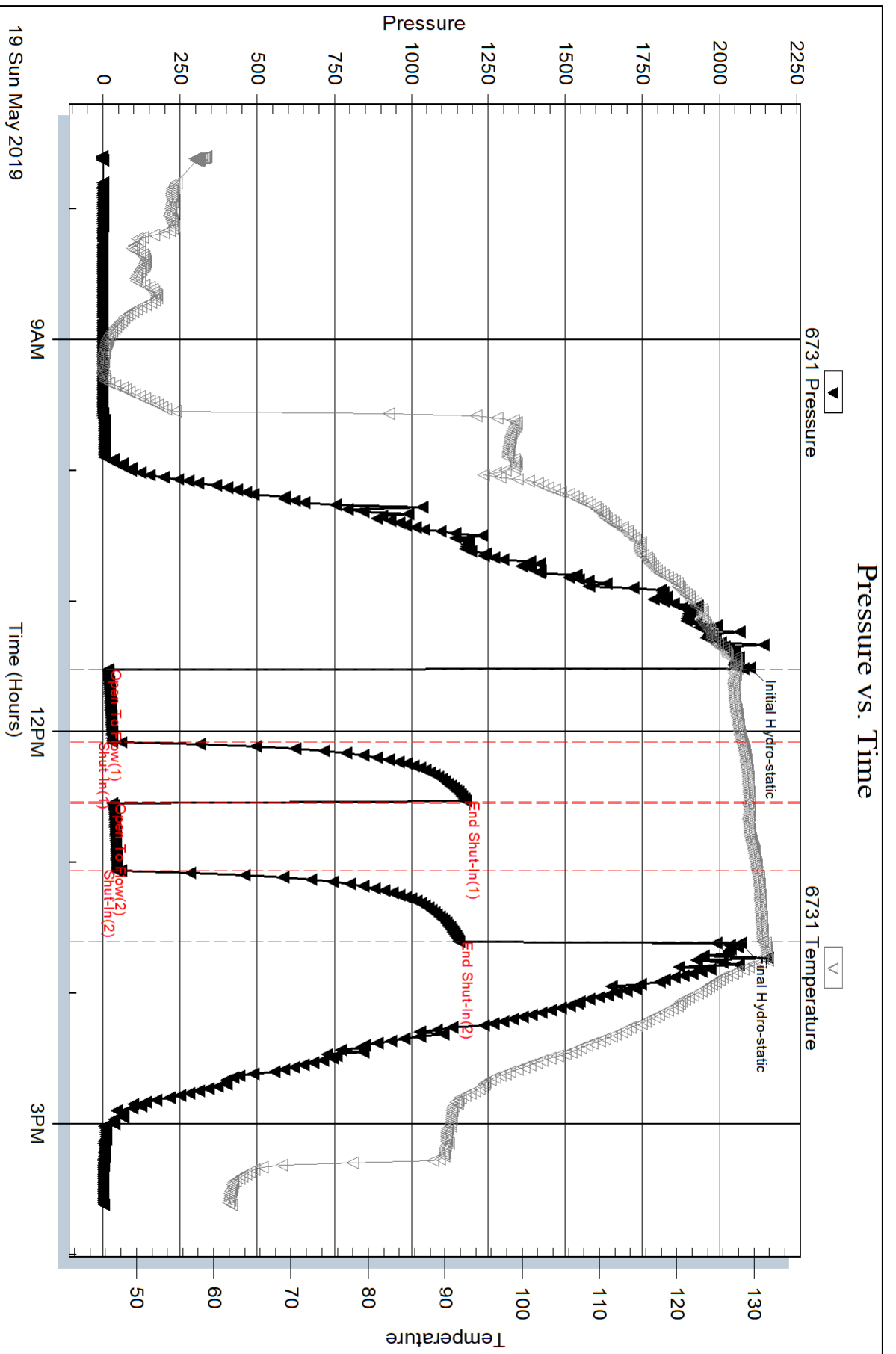
Num Gas Bombs: 0

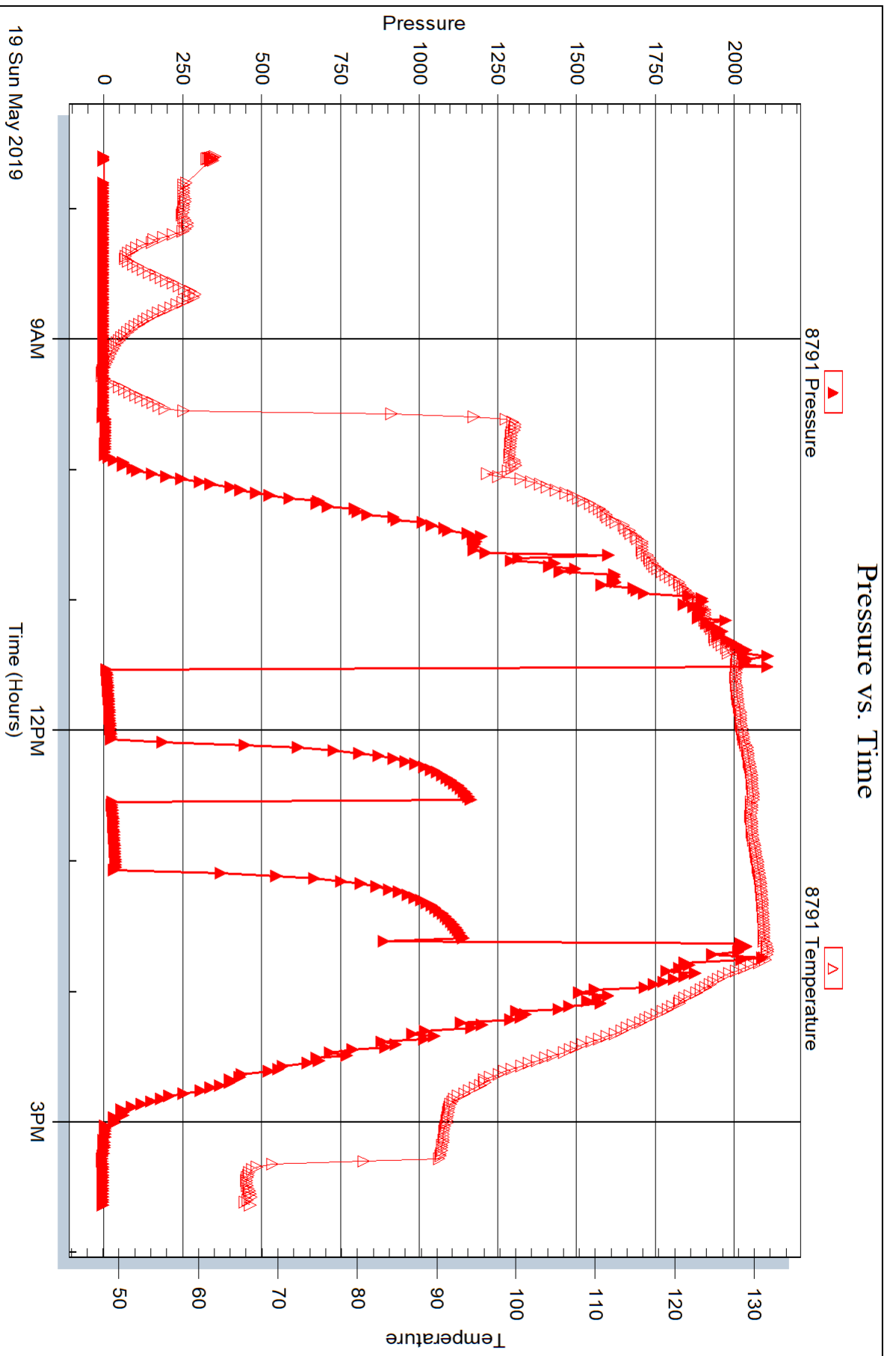
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Brito Oil Company**

250 N Water STE 300  
Wichita KS 67202

ATTN: Brad Rine

### **Four Boys #1-28**

### **28-4S-37W Cheyenne KS**

Start Date: 2019.05.20 @ 03:11:00

End Date: 2019.05.20 @ 10:04:46

Job Ticket #: 65363                      DST #: 2

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

Printed: 2019.05.24 @ 14:17:03





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brito Oil Company  
 250 N Water STE 300  
 Wichita KS 67202  
 ATTN: Brad Rine

**28-4S-37W Cheyenne KS**  
**Four Boys #1-28**  
 Job Ticket: 65363 **DST#: 2**  
 Test Start: 2019.05.20 @ 03:11:00

## GENERAL INFORMATION:

Formation: **LKC C - G**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 06:11:46 Tester: Shaw n Wheelbarger  
 Time Test Ended: 10:04:46 Unit No: 76  
 Interval: **4316.00 ft (KB) To 4388.00 ft (KB) (TVD)** Reference Elevations: 3386.00 ft (KB)  
 Total Depth: 4280.00 ft (KB) (TVD) 3381.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

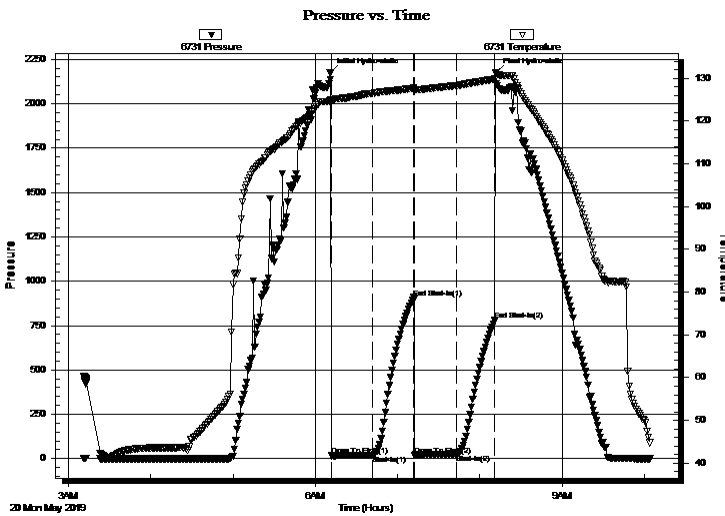
## Serial #: 6731

Inside

Press@RunDepth: 24.98 psig @ 4317.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.05.20 End Date: 2019.05.20 Last Calib.: 2019.05.20  
 Start Time: 03:11:01 End Time: 10:04:46 Time On Btm: 2019.05.20 @ 06:10:46  
 Time Off Btm: 2019.05.20 @ 08:11:46

TEST COMMENT: 30-IF-Slight surface blow @ open  
 30-ISI-No blow back  
 30-FF-No blow  
 30-FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.20	124.64	Initial Hydro-static
1	16.57	124.34	Open To Flow (1)
31	20.49	126.43	Shut-In(1)
61	907.68	127.67	End Shut-In(1)
62	20.75	127.25	Open To Flow (2)
93	24.98	128.29	Shut-In(2)
121	778.48	129.78	End Shut-In(2)
121	2176.08	131.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	100% Mud	0.15

\* Recovery from multiple tests

## Gas Rates

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



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

**DRILL STEM TEST REPORT**

Brito Oil Company  
250 N Water STE 300  
Wichita KS 67202  
ATTN: Brad Rine

**28-4S-37W Cheyenne KS**  
**Four Boys #1-28**  
Job Ticket: 65363      **DST#: 2**  
Test Start: 2019.05.20 @ 03:11:00

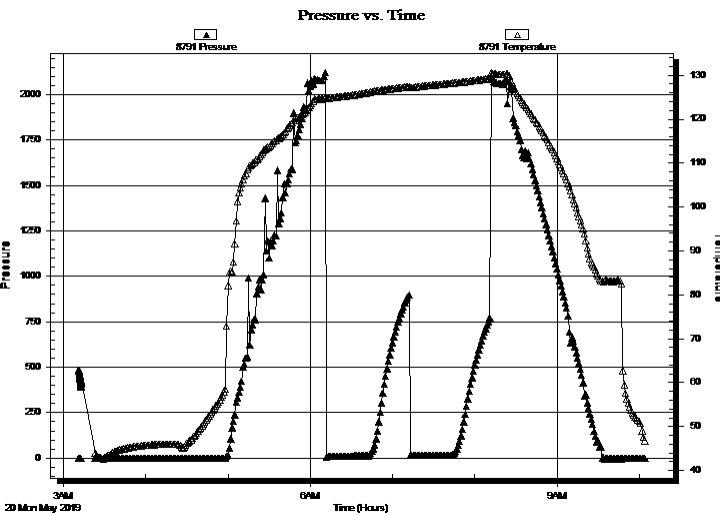
**GENERAL INFORMATION:**

Formation: **LKC C - G**  
Deviated: No      Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 06:11:46      Tester: Shawn Wheelbarger  
Time Test Ended: 10:04:46      Unit No: 76  
**Interval: 4316.00 ft (KB) To 4388.00 ft (KB) (TVD)**      Reference Elevations: 3386.00 ft (KB)  
Total Depth: 4280.00 ft (KB) (TVD)      3381.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8791**

Press@RunDepth:                      psig @                      ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.05.20      End Date: 2019.05.20      Last Calib.: 1899.12.30  
Start Time: 03:11:01      End Time: 10:04:01      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 30-IF-Slight surface blow @ open  
30-ISI-No blow back  
30-FF-No blow  
30-FSI-No blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
30.00	100% Mud	0.15

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brito Oil Company

**28-4S-37W Cheyenne KS**

250 N Water STE 300  
Wichita KS 67202

**Four Boys #1-28**

Job Ticket: 65363

**DST#: 2**

ATTN: Brad Rine

Test Start: 2019.05.20 @ 03:11:00

## Tool Information

Drill Pipe:	Length: 4133.00 ft	Diameter: 3.80 inches	Volume: 57.98 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 58.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4316.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	93.00 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			4296.00	
Shut In Tool	5.00			4301.00	
Hydraulic tool	5.00		Inside	4306.00	
Packer	5.00			4311.00	21.00 Bottom Of Top Packer
Packer	5.00			4316.00	
Packer - Shale	0.00			4316.00	
Stubb	1.00			4317.00	
Recorder	0.00	8645	Outside	4317.00	
Recorder	0.00	6731	Inside	4317.00	
Perforations	35.00			4352.00	
Change Over Sub	1.00			4353.00	
Blank Spacing	31.00			4384.00	
Change Over Sub	1.00			4385.00	
Bullnose	3.00			4388.00	72.00 Bottom Packers & Anchor

**Total Tool Length: 93.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Brito Oil Company

**28-4S-37W Cheyenne KS**

250 N Water STE 300  
Wichita KS 67202

**Four Boys #1-28**

Job Ticket: 65363

**DST#: 2**

ATTN: Brad Rine

Test Start: 2019.05.20 @ 03:11:00

**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: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
30.00	100% Mud	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

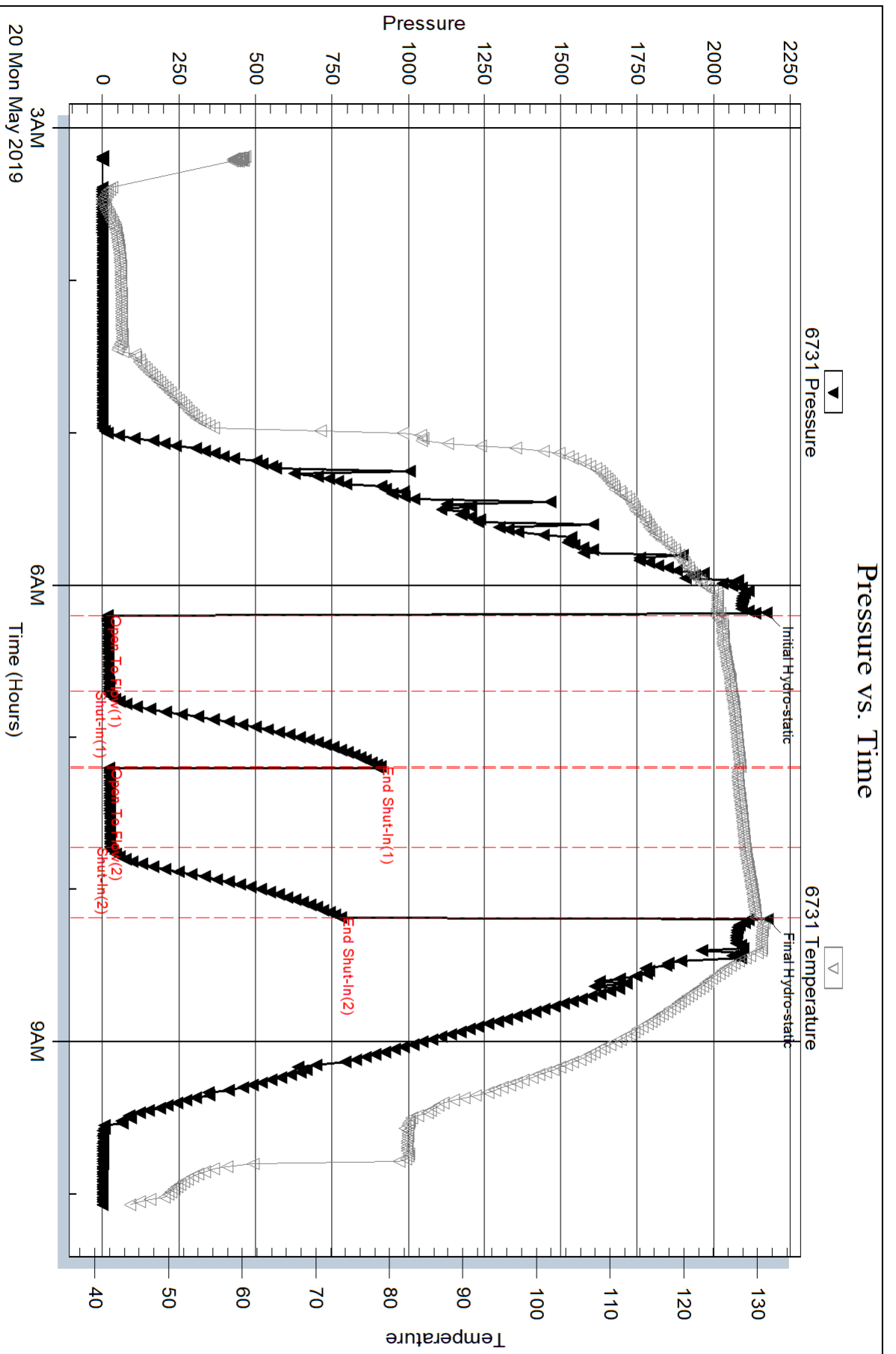
Num Gas Bombs: 0

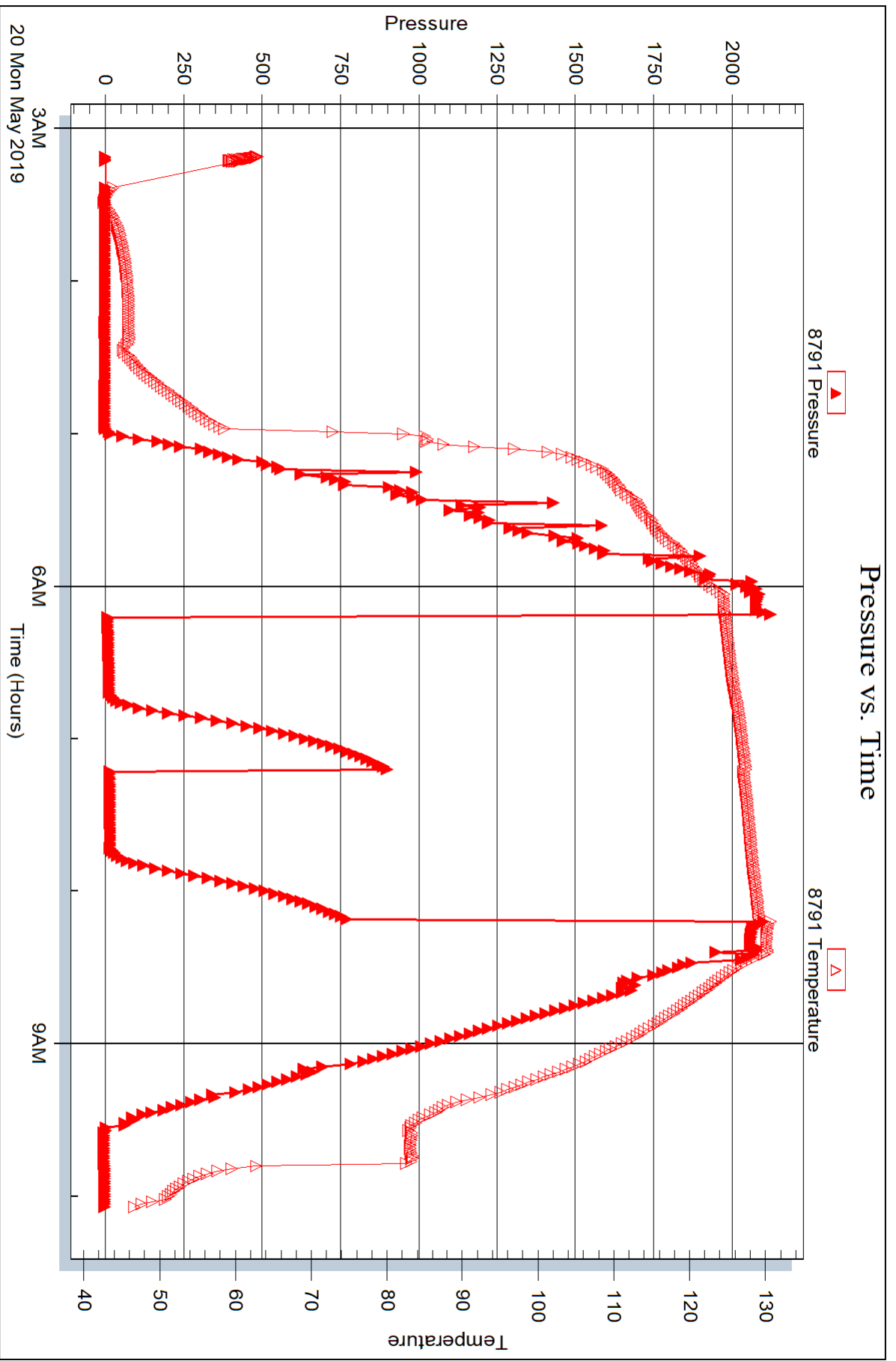
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Brito Oil Company**

250 N Water STE 300  
Wichita KS 67202

ATTN: Brad Rine

### **Four Boys #1-28**

### **28-4S-37W Cheyenne KS**

Start Date: 2019.05.20 @ 21:11:00

End Date: 2019.05.21 @ 04:17:31

Job Ticket #: 65364                      DST #: 3

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

Printed: 2019.05.24 @ 14:16:35



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brito Oil Company  
 250 N Water STE 300  
 Wichita KS 67202  
 ATTN: Brad Rine

**28-4S-37W Cheyenne KS**  
**Four Boys #1-28**  
 Job Ticket: 65364      **DST#: 3**  
 Test Start: 2019.05.20 @ 21:11:00

## GENERAL INFORMATION:

Formation: **LKC H - J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:03:01  
 Time Test Ended: 04:17:31  
 Interval: **4383.00 ft (KB) To 4473.00 ft (KB) (TVD)**  
 Total Depth: 4473.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shawn Wheelbarger  
 Unit No: 76  
 Reference Elevations: 3386.00 ft (KB)  
 3381.00 ft (CF)  
 KB to GR/CF: 5.00 ft

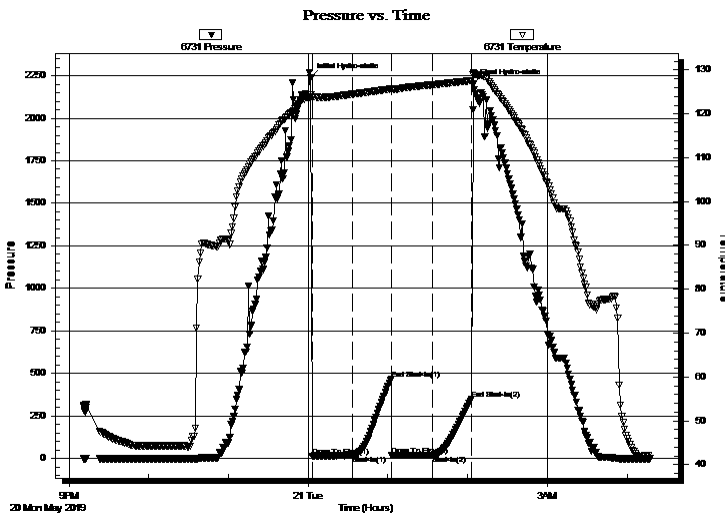
## Serial #: 6731

Inside

Press@RunDepth: 18.69 psig @ 4384.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.05.20      End Date: 2019.05.21      Last Calib.: 2019.05.21  
 Start Time: 21:11:01      End Time: 04:17:31      Time On Btm: 2019.05.21 @ 00:02:01  
 Time Off Btm: 2019.05.21 @ 02:04:31

TEST COMMENT: 30-IF-Slight surface blow @ open  
 30-ISI-No blow back  
 30-FF-No blow  
 30-FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.52	124.25	Initial Hydro-static
1	14.06	123.65	Open To Flow (1)
32	17.37	124.51	Shut-In(1)
61	468.38	125.71	End Shut-In(1)
61	18.03	125.60	Open To Flow (2)
92	18.69	126.65	Shut-In(2)
121	350.38	127.60	End Shut-In(2)
123	2201.01	129.46	Final Hydro-static

## Recovery

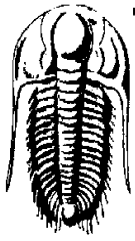
Length (ft)	Description	Volume (bbl)
20.00	Mud 100% W/ Oil spots	0.10

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Brito Oil Company  
 250 N Water STE 300  
 Wichita KS 67202  
 ATTN: Brad Rine

**28-4S-37W Cheyenne KS**  
**Four Boys #1-28**  
 Job Ticket: 65364      **DST#: 3**  
 Test Start: 2019.05.20 @ 21:11:00

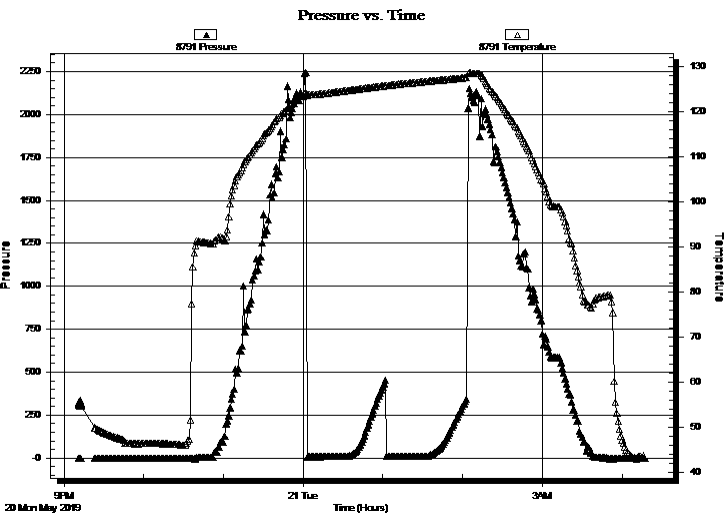
**GENERAL INFORMATION:**

Formation: <b>LKC H - J</b>	
Deviated: No Whipstock:                                      ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 00:03:01	Tester: Shaw n Wheelbarger
Time Test Ended: 04:17:31	Unit No: 76
<b>Interval: 4383.00 ft (KB) To 4473.00 ft (KB) (TVD)</b>	Reference Elevations: 3386.00 ft (KB)
Total Depth: 4473.00 ft (KB) (TVD)	3381.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair	KB to GR/CF: 5.00 ft

**Serial #: 8791**

Press@RunDepth:                      psig @                      ft (KB)	Capacity: 8000.00 psig
Start Date: 2019.05.20                      End Date: 2019.05.21	Last Calib.: 2019.05.21
Start Time: 21:11:01                      End Time: 04:17:31	Time On Btm:
	Time Off Btm:

**TEST COMMENT:** 30-IF-Slight surface blow @ open  
 30-ISI-No blow back  
 30-FF-No blow  
 30-FSI-No blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	Mud 100% W/ Oil spots	0.10

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brito Oil Company

**28-4S-37W Cheyenne KS**

250 N Water STE 300  
Wichita KS 67202

**Four Boys #1-28**

Job Ticket: 65364

**DST#: 3**

ATTN: Brad Rine

Test Start: 2019.05.20 @ 21:11:00

## Tool Information

Drill Pipe:	Length: 4195.00 ft	Diameter: 3.80 inches	Volume: 58.84 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4383.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	111.00 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			4363.00	
Shut In Tool	5.00			4368.00	
Hydraulic tool	5.00		Inside	4373.00	
Packer	5.00			4378.00	21.00 Bottom Of Top Packer
Packer	5.00			4383.00	
Packer - Shale	0.00			4383.00	
Stubb	1.00			4384.00	
Recorder	0.00	8645	Outside	4384.00	
Recorder	0.00	6731	Inside	4384.00	
Perforations	21.00			4405.00	
Change Over Sub	1.00			4406.00	
Blank Spacing	63.00			4469.00	
Change Over Sub	1.00			4470.00	
Bullnose	3.00			4473.00	90.00 Bottom Packers & Anchor

**Total Tool Length: 111.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brito Oil Company

**28-4S-37W Cheyenne KS**

250 N Water STE 300  
Wichita KS 67202

**Four Boys #1-28**

Job Ticket: 65364

**DST#: 3**

ATTN: Brad Rine

Test Start: 2019.05.20 @ 21:11:00

## 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: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100% W/ Oil spots	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

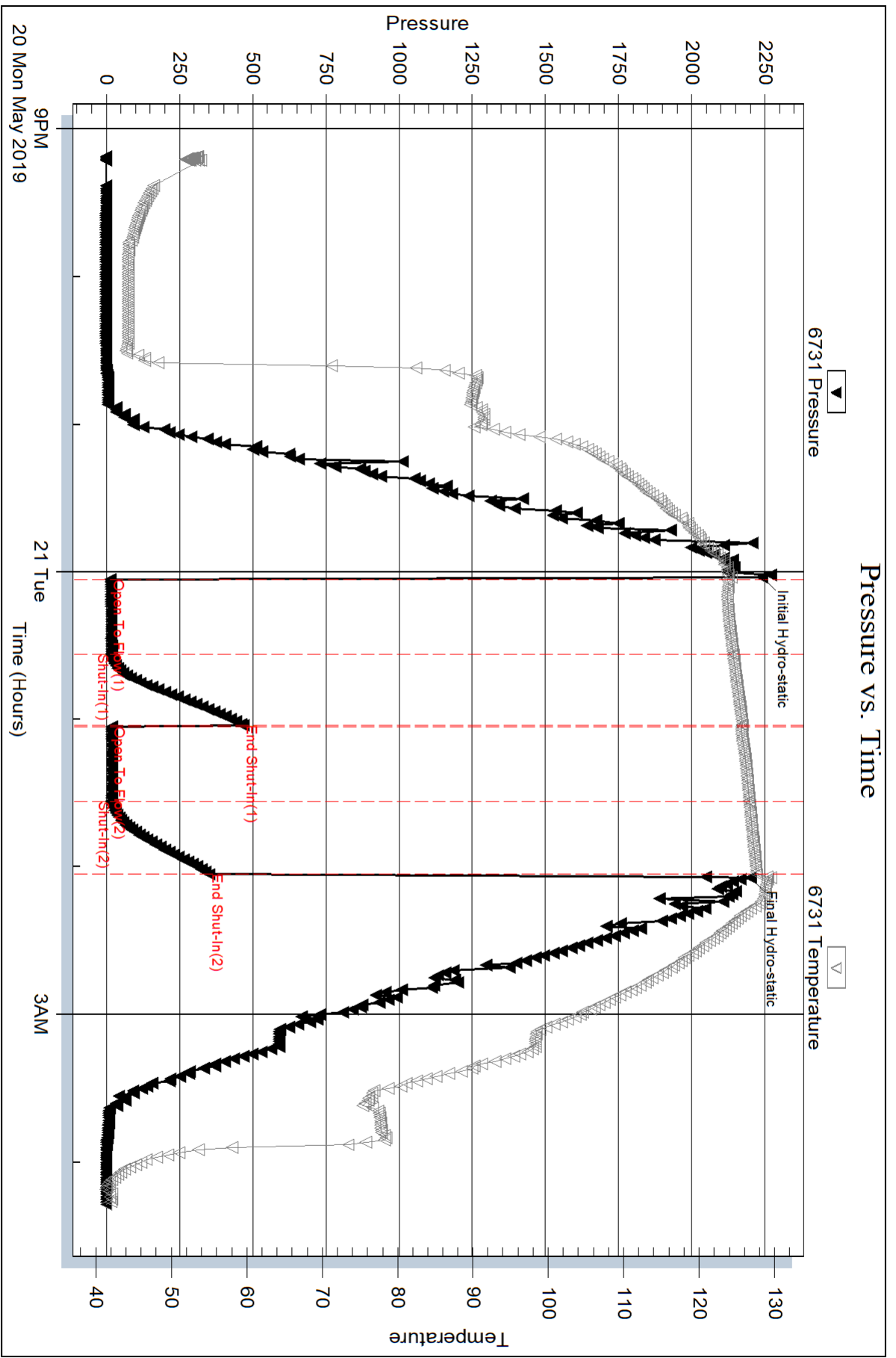
Num Gas Bombs: 0

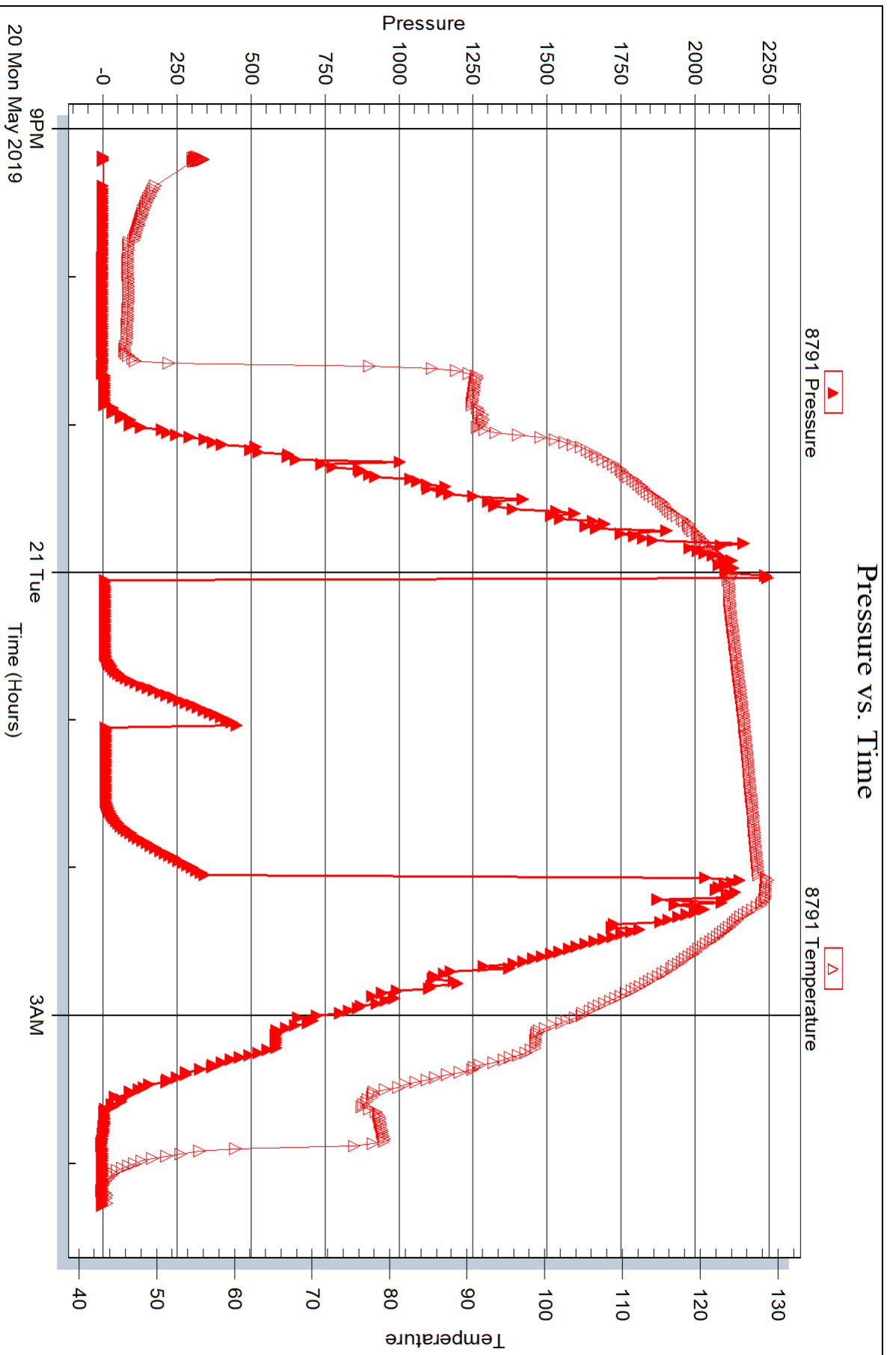
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Brito Oil Company**

250 N Water STE 300  
Wichita KS 67202

ATTN: Brad Rine

### **Four Boys #1-28**

### **28-4S-37W Cheyenne KS**

Start Date: 2019.05.21 @ 23:35:00

End Date: 2019.05.22 @ 10:16:46

Job Ticket #: 65365                      DST #: 4

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

Printed: 2019.05.24 @ 13:02:01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brito Oil Company  
250 N Water STE 300  
Wichita KS 67202  
ATTN: Brad Rine

**28-4S-37W Cheyenne KS**  
**Four Boys #1-28**  
Job Ticket: 65365      **DST#: 4**  
Test Start: 2019.05.21 @ 23:35:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
Deviated: No Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 03:42:31      Tester: Shawn Wheelbarger  
Time Test Ended: 10:16:46      Unit No: 76  
**Interval: 4632.00 ft (KB) To 4670.00 ft (KB) (TVD)**      Reference Elevations: 3386.00 ft (KB)  
Total Depth: 4670.00 ft (KB) (TVD)      3381.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

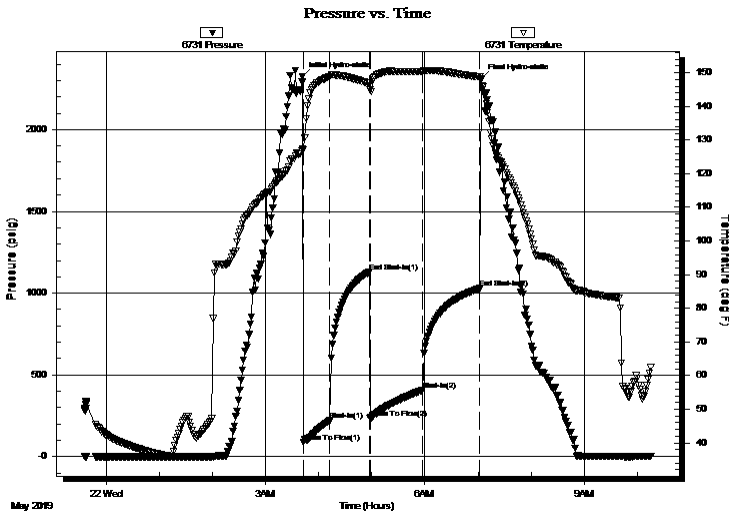
## Serial #: 6731

Inside

Press@RunDepth: 407.03 psig @ 4633.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.05.21      End Date: 2019.05.22      Last Calib.: 2019.05.22  
Start Time: 23:35:01      End Time: 10:16:46      Time On Btm: 2019.05.22 @ 03:41:46  
Time Off Btm: 2019.05.22 @ 07:03:31

TEST COMMENT: 30-IF-3" Blow @ open BOB in 2 mins built to 128"  
45-ISI- BOB in 7 mins built to 28"  
60-FF- BOB in 5 mins built to 92  
60-FSI- Blow built to 8" in 20 mins died to 5"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2322.57	127.39	Initial Hydro-static
1	86.90	127.06	Open To Flow (1)
31	220.65	148.93	Shut-In(1)
76	1129.96	146.87	End Shut-In(1)
77	236.38	145.04	Open To Flow (2)
136	407.03	150.25	Shut-In(2)
201	1029.14	148.70	End Shut-In(2)
202	2311.17	148.12	Final Hydro-static

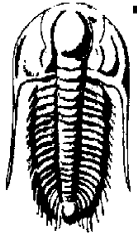
## Recovery

Length (ft)	Description	Volume (bbl)
311.00	GMCO 38%G, 45%O, 17%M	2.75
798.00	CGO 15%G, 85%O	11.19
0.00	3751 Gas In Pipe	0.00

\* Recovery from multiple tests

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

Brito Oil Company

**28-4S-37W Cheyenne KS**

250 N Water STE 300  
Wichita KS 67202

**Four Boys #1-28**

Job Ticket: 65365

**DST#: 4**

ATTN: Brad Rine

Test Start: 2019.05.21 @ 23:35:00

### GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:42:31

Time Test Ended: 10:16:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Shawn Wheelbarger

Unit No: 76

**Interval: 4632.00 ft (KB) To 4670.00 ft (KB) (TVD)**

Total Depth: 4670.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3386.00 ft (KB)

3381.00 ft (CF)

KB to GR/CF: 5.00 ft

### Serial #: 8791

Press@RunDepth: psig @ ft (KB)

Start Date: 2019.05.21

End Date:

2019.05.22

Start Time: 23:35:01

End Time:

10:16:46

Capacity: 8000.00 psig

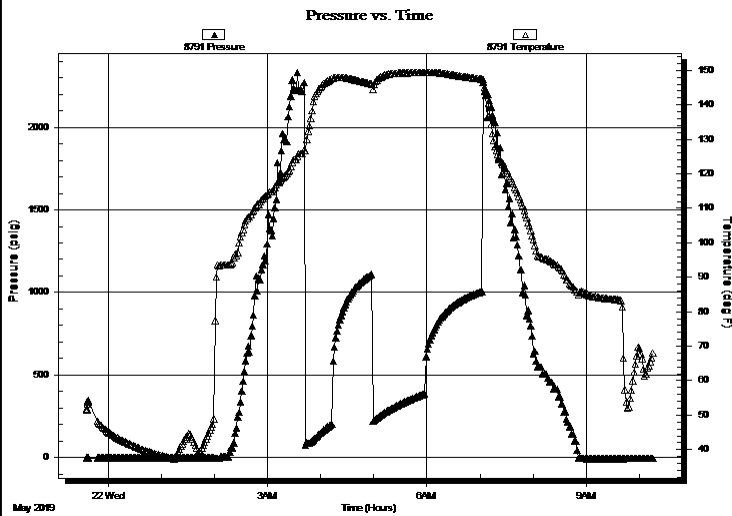
Last Calib.:

2019.05.22

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30-IF-3" Blow @ open BOB in 2 mins built to 128"  
45-ISI- BOB in 7 mins built to 28"  
60-FF- BOB in 5 mins built to 92  
60-FSI- Blow built to 8" in 20 mins died to 5"



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
311.00	GMCO 38%G, 45%O, 17%M	2.75
798.00	CGO 15%G, 85%O	11.19
0.00	3751 Gas In Pipe	0.00

### Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brito Oil Company

**28-4S-37W Cheyenne KS**

250 N Water STE 300  
Wichita KS 67202

**Four Boys #1-28**

Job Ticket: 65365

**DST#: 4**

ATTN: Brad Rine

Test Start: 2019.05.21 @ 23:35:00

## Tool Information

Drill Pipe:	Length: 4445.00 ft	Diameter: 3.80 inches	Volume: 62.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 63.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4632.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	59.00 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			4612.00	
Shut In Tool	5.00			4617.00	
Hydraulic tool	5.00		Inside	4622.00	
Packer	5.00			4627.00	21.00 Bottom Of Top Packer
Packer	5.00			4632.00	
Packer - Shale	0.00			4632.00	
Stubb	1.00			4633.00	
Recorder	0.00	8645	Outside	4633.00	
Recorder	0.00	6731	Inside	4633.00	
Perforations	34.00			4667.00	
Bullnose	3.00			4670.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brito Oil Company

**28-4S-37W Cheyenne KS**

250 N Water STE 300  
Wichita KS 67202

**Four Boys #1-28**

Job Ticket: 65365

**DST#: 4**

ATTN: Brad Rine

Test Start: 2019.05.21 @ 23:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
311.00	GMCO 38%G, 45%O, 17%M	2.750
798.00	CGO 15%G, 85%O	11.194
0.00	3751 Gas In Pipe	0.000

Total Length: 1109.00 ft      Total Volume: 13.944 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

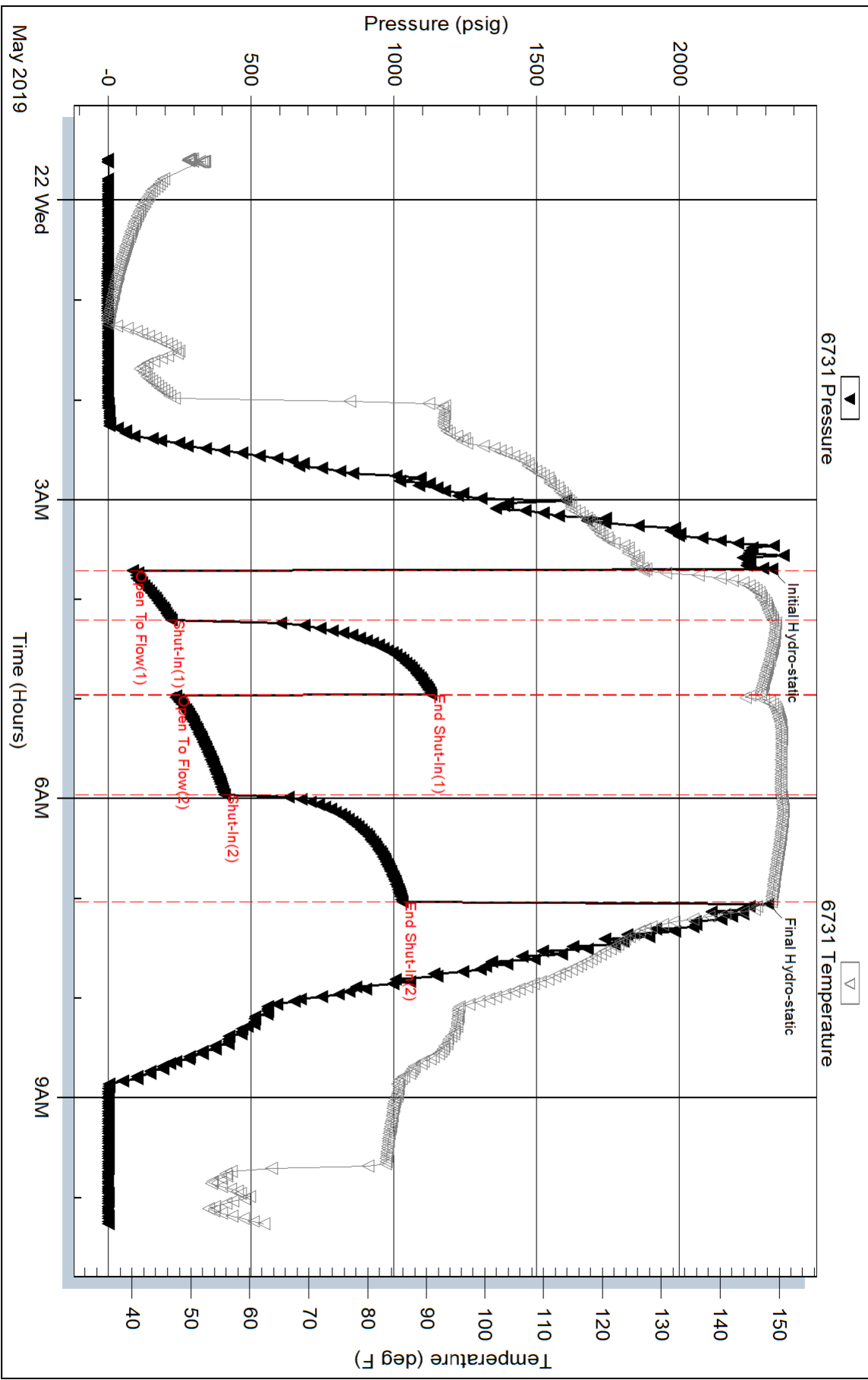
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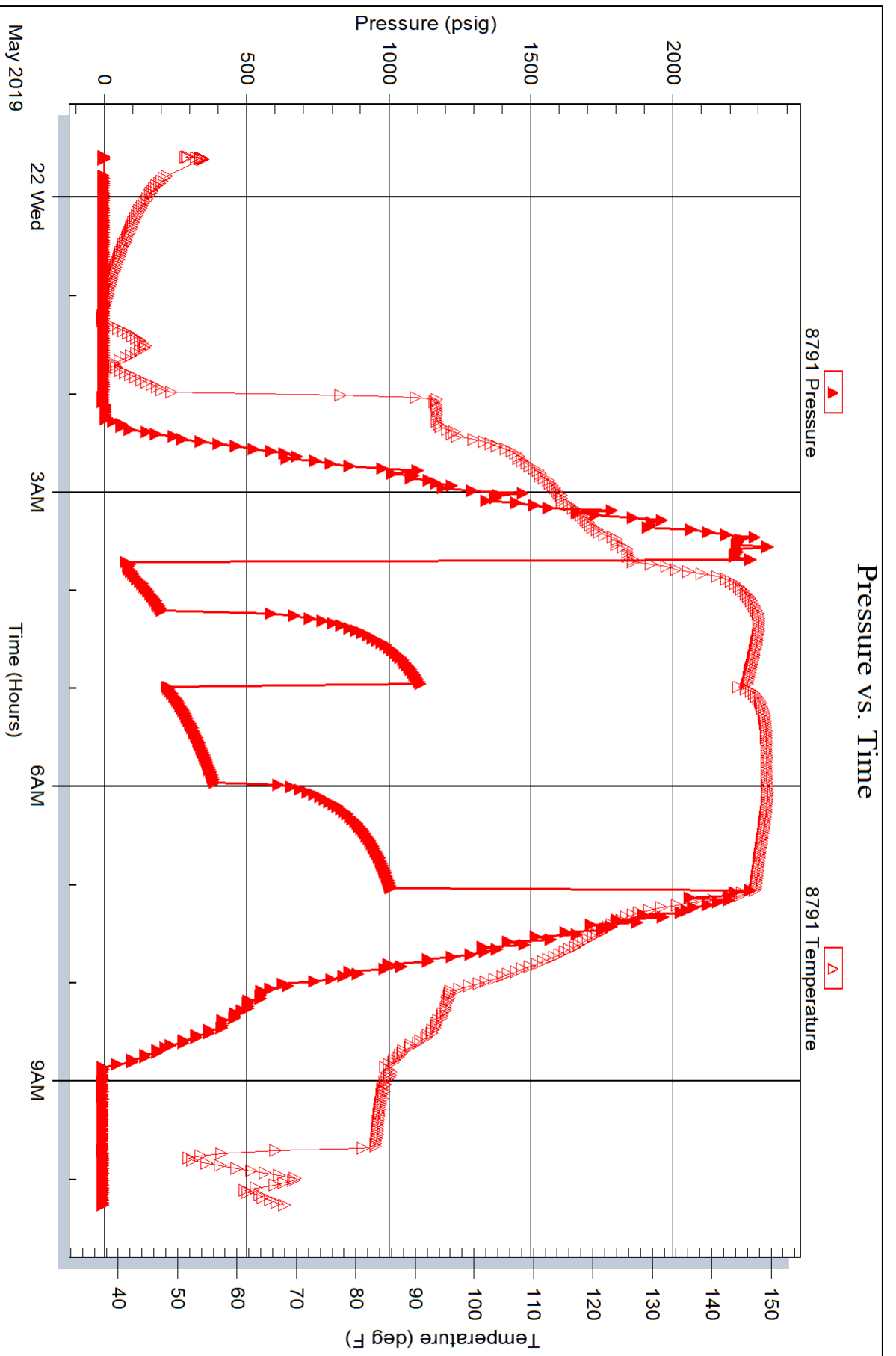
Laboratory Name:

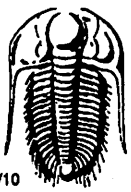
Laboratory Location:

Recovery Comments: 38@70 Deg adjusted to 37@60

# Pressure vs. Time







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65362

Well Name & No. Four Boys #1-28 Test No. 1 Date 5-19-19  
 Company Brito Oil Company Elevation 3386 KB 3381 GL  
 Address 250 N Water STE 300 Wichita KS 67202  
 Co. Rep / Geo. Brod Rine (316) 250 5941 Rig Murfin #3  
 Location: Sec. 28 Twp. 4S Rge. 37W Co. Cheyenne State KS

Interval Tested 4207 - 4280 Zone Tested Toronto Lens A  
 Anchor Length 73 Drill Pipe Run 4039 Mud Wt. 9.2  
 Top Packer Depth 4202 Drill Collars Run 177 Vis SS  
 Bottom Packer Depth 4207 Wt. Pipe Run - WL 6.4  
 Total Depth 4280 Chlorides 2000 ppm System LCM 5  
 Blow Description IF No blow back  
ISI No blow  
FF No blow  
FSI No blow

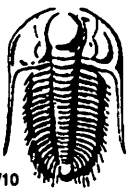
Rec	Feet of	%gas	%oil	%water	%mud
<u>58</u>	<u>Mud</u>			<u>100</u>	

Rec Total 58 BHT 132 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2099  Test 1300 T-On Location 6:15  
 (B) First Initial Flow 15  Jars \_\_\_\_\_ T-Started 7:36  
 (C) First Final Flow 30  Safety Joint \_\_\_\_\_ T-Open 11:32  
 (D) Initial Shut-In 1178  Circ Sub \_\_\_\_\_ T-Pulled 13:33  
 (E) Second Initial Flow 31  Hourly Standby \_\_\_\_\_ T-Out 15:30  
 (F) Second Final Flow 45  Mileage 118 RT 118 Comments \_\_\_\_\_  
 (G) Final Shut-In 1157  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2068  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Shale Packer 250 Sub Total 0  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_ Total 1668  
 Final Flow 30  Extra Recorder \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1668

Approved By Brod Rine Our Representative Shawn Hedberg

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65363

Well Name & No. Four Boys # 1-28 Test No. 2 Date 5-20-19  
 Company Brito Oil Company Elevation 3386 KB 3381 GL  
 Address 250 N Water STE 300 Wichita KS 67202  
 Co. Rep / Geo. Brad Pine Rig Murfin # 3  
 Location: Sec. 28 Twp. 43 Rge. 37W Co. Cheyenne State KS

Interval Tested 4316 - 4388 Zone Tested Lans C E F G  
 Anchor Length 72 Drill Pipe Run 4133 Mud Wt. 9.1  
 Top Packer Depth 4311 Drill Collars Run 177 Vis 57  
 Bottom Packer Depth 4316 Wt. Pipe Run - WL 6.4  
 Total Depth 4388 Chlorides 2200 ppm System LCM 4  
 Blow Description IF Slight surface blow @ open  
ISI No blow back  
FE No blow  
FSI No blow

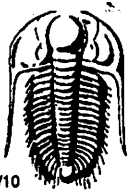
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 131 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2173</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>2:25</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars	T-Started <u>3:11</u>
(C) First Final Flow <u>20</u>	<input type="checkbox"/> Safety Joint	T-Open <u>6:01</u>
(D) Initial Shut-In <u>908</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>8:12</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>9:55</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>118 RT</u> 118	Comments
(G) Final Shut-In <u>778</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2176</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1668</u>
	Sub Total <u>1668</u>	MP/DST Disc't

Approved By Brad Pine Our Representative Shawn Wheelbarger

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65364

Well Name & No. Four Boys #1-28 Test No. 3 Date 5-20-19  
 Company Brito Oil Company Elevation 3386 KB 3381 GL  
 Address 250 N Water STE 300 Wichita KS 67202  
 Co. Rep / Geo. Brad Rine Rig Murfin #3  
 Location: Sec. 28 Twp. 4S Rge. 37W Co. Cheyenne State KS

Interval Tested 4383 - 4473 Zone Tested LKC HIA  
 Anchor Length 90 Drill Pipe Run 419.5 Mud Wt. 9.1  
 Top Packer Depth 4378 Drill Collars Run 177 Vis 57  
 Bottom Packer Depth 4383 Wt. Pipe Run — WL 6.4  
 Total Depth 4473 Chlorides 2200 ppm System LCM 4  
 Blow Description IF Slight surface blow @ open  
ISI No blow back  
FF No blow  
FSI No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud w/ 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

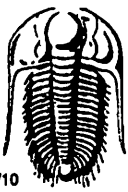
Rec Total 20 BHT 130 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2240  Test 1300 T-On Location 20:17  
 (B) First Initial Flow 14  Jars \_\_\_\_\_ T-Started 21:11  
 (C) First Final Flow 17  Safety Joint \_\_\_\_\_ T-Open 00:03 5-21  
 (D) Initial Shut-In 468  Circ Sub \_\_\_\_\_ T-Pulled 2:11 5-21  
 (E) Second Initial Flow 18  Hourly Standby \_\_\_\_\_ T-Out 3:55 5-21  
 (F) Second Final Flow 19  Mileage 118 RT 118 Comments \_\_\_\_\_  
 (G) Final Shut-In 350  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2201  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1668  
 Final Shut-In 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1668

Approved By Brad Rine

Our Representative Shawn Wheelbarger

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65365

Well Name & No. Four Boys #1-28 Test No. 4 Date 5-21-19  
 Company Brito Oil Company Elevation 3386 KB 3381 GL  
 Address 250 N Water STE 300 Wichita KS 67202  
 Co. Rep / Geo. Brad Rine Rig Martin #3  
 Location: Sec. 28 Twp. 4S Rge. 37W Co. Cheyenne State KS

Interval Tested 4632 - 4670 Zone Tested Pawnee  
 Anchor Length 38 Drill Pipe Run 4445 Mud Wt. 9.3  
 Top Packer Depth 4627 Drill Collars Run 177 Vis 73  
 Bottom Packer Depth 4632 Wt. Pipe Run - WL 7.2  
 Total Depth 4670 Chlorides 2500 ppm System LCM 3

Blow Description IF 3" Blow @ open BOB in 2 mins built to 128"  
ISI BOB in 7 mins built to 28"  
FF @ BOB in 5 mins built to 92  
FSI Blow built to 8" in 20 mins died to 5"

Rec	Feet of	%gas	%oil	%water	%mud
<u>798</u>	<u>CGO</u>	<u>15</u>	<u>85</u>		
<u>311</u>	<u>GMLD</u>	<u>38</u>	<u>45</u>	<u>17</u>	
<u>3751</u>	<u>Gasin pipe</u>				

Rec Total 1109 BHT 148 Gravity 37 @ 60 API RW - @ - °F Chlorides - ppm

- (A) Initial Hydrostatic 2323
- (B) First Initial Flow 87
- (C) First Final Flow 221
- (D) Initial Shut-In 1130
- (E) Second Initial Flow 236
- (F) Second Final Flow 407
- (G) Final Shut-In 1029
- (H) Final Hydrostatic 2311

- Test 1300
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 118 RT 236
- Sampler
- Straddle
- Shale Packer 250
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1786

T-On Location 22:45 5-21  
 T-Started 23:35 5-21  
 T-Open 3:43  
 T-Pulled 7:00  
 T-Out 9:53

Comments Was told they were tripping out @ 10pm loaded tools 5/24 5:00

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 60  
 Final Shut-In 60

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1786  
 MP/DST Disc't

Approved By Brad Rine Our Representative Shawn Wheelbarger

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