



## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Water Front Pkwy Bldg 300B Wichita  
KS 67206

ATTN: Ken Leblanc

### **Bushton #1-20**

#### **26-17s-9w Ellsworth,KS**

Start Date: 2015.05.17 @ 05:00:00

End Date: 2015.05.17 @ 10:33:00

Job Ticket #: 62921                      DST #: 1

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

Printed: 2015.05.20 @ 09:30:55



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkw y Bldg 300B Wichita KS 67206

**Bushton #1-20**

ATTN: Ken Leblanc

Job Ticket: 62921

**DST#: 1**

Test Start: 2015.05.17 @ 05:00:00

## GENERAL INFORMATION:

Formation: **LKC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:30

Time Test Ended: 10:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

**Interval: 2898.00 ft (KB) To 2920.00 ft (KB) (TVD)**

Reference Elevations: 1773.00 ft (KB)

Total Depth: 2920.00 ft (KB) (TVD)

1765.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6666**

**Inside**

Press@RunDepth: 212.51 psig @ 2916.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2015.05.17

End Date:

2015.05.17

Last Calib.: 2015.05.17

Start Time: 05:01:00

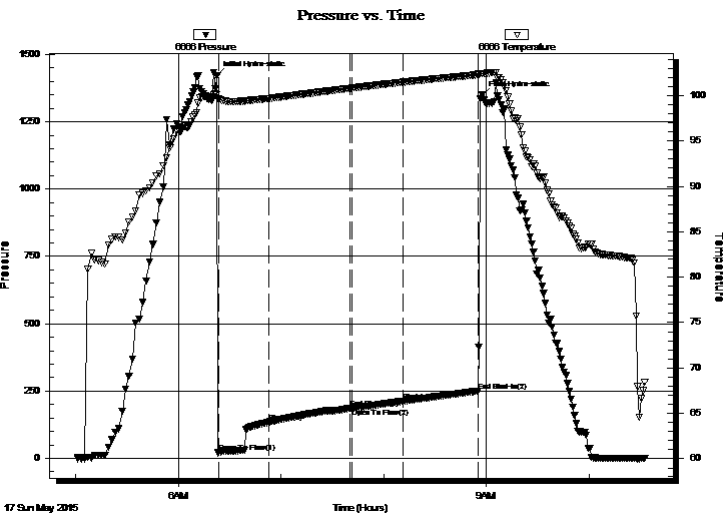
End Time:

10:33:00

Time On Btm: 2015.05.17 @ 06:22:30

Time Off Btm: 2015.05.17 @ 08:57:30

**TEST COMMENT:** IFP-30 Minutes-Weak blow built 2 1/2"  
 ISIP-45 Minutes-No blow back  
 FFP-30 Minutes-Very weak surge did not build  
 FSIP-45 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1421.99	100.11	Initial Hydro-static
1	22.73	99.67	Open To Flow (1)
31	134.80	99.69	Shut-In(1)
78	185.00	100.79	End Shut-In(1)
79	186.43	100.83	Open To Flow (2)
109	212.51	101.48	Shut-In(2)
153	250.05	102.29	End Shut-In(2)
155	1348.59	102.41	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkw y Bldg 300B Wichita KS 67206

**Bushton #1-20**

Job Ticket: 62921

**DST#: 1**

ATTN: Ken Leblanc

Test Start: 2015.05.17 @ 05:00:00

## GENERAL INFORMATION:

Formation: **LKC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:30

Time Test Ended: 10:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

Interval: **2898.00 ft (KB) To 2920.00 ft (KB) (TVD)**

Reference Elevations: 1773.00 ft (KB)

Total Depth: 2920.00 ft (KB) (TVD)

1765.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8400 Outside**

Press@RunDepth: 253.21 psig @ 2917.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2015.05.17

End Date:

2015.05.17

Last Calib.:

2015.05.17

Start Time: 05:01:00

End Time:

10:33:00

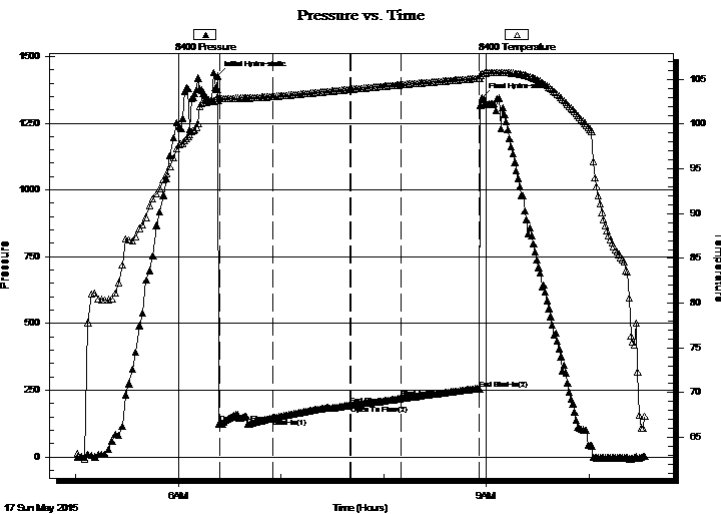
Time On Btm:

2015.05.17 @ 06:23:00

Time Off Btm:

2015.05.17 @ 08:57:30

TEST COMMENT: IFP-30 Minutes-Weak blow built 2 1/2"  
 ISIP-45 Minutes-No blow back  
 FFP-30 Minutes-Very weak surge did not build  
 FSIP-45 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1426.54	103.10	Initial Hydro-static
1	125.35	102.81	Open To Flow (1)
32	145.76	103.09	Shut-In(1)
77	193.82	103.87	End Shut-In(1)
78	194.40	103.89	Open To Flow (2)
107	218.85	104.40	Shut-In(2)
153	253.21	105.12	End Shut-In(2)
155	1344.72	105.63	Final Hydro-static

## Recovery

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

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkwy Bldg 300B Wichita KS  
67206

**Bushton #1-20**

Job Ticket: 62921

**DST#: 1**

ATTN: Ken Leblanc

Test Start: 2015.05.17 @ 05:00:00

## Tool Information

Drill Pipe:	Length: 2706.00 ft	Diameter: 3.80 inches	Volume: 37.96 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: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 38.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2898.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	44.00 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			2881.00	
Hydraulic tool	5.00			2886.00	
Safety Joint	2.00			2888.00	
Packer	5.00			2893.00	22.00 Bottom Of Top Packer
Packer	5.00			2898.00	
Anchor	17.00			2915.00	
Recorder	1.00	6666	Inside	2916.00	
Recorder	1.00	8400	Outside	2917.00	
Bullnose	3.00			2920.00	22.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkw y Bldg 300B Wichita KS  
67206

**Bushton #1-20**

Job Ticket: 62921

**DST#: 1**

ATTN: Ken Leblanc

Test Start: 2015.05.17 @ 05:00:00

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

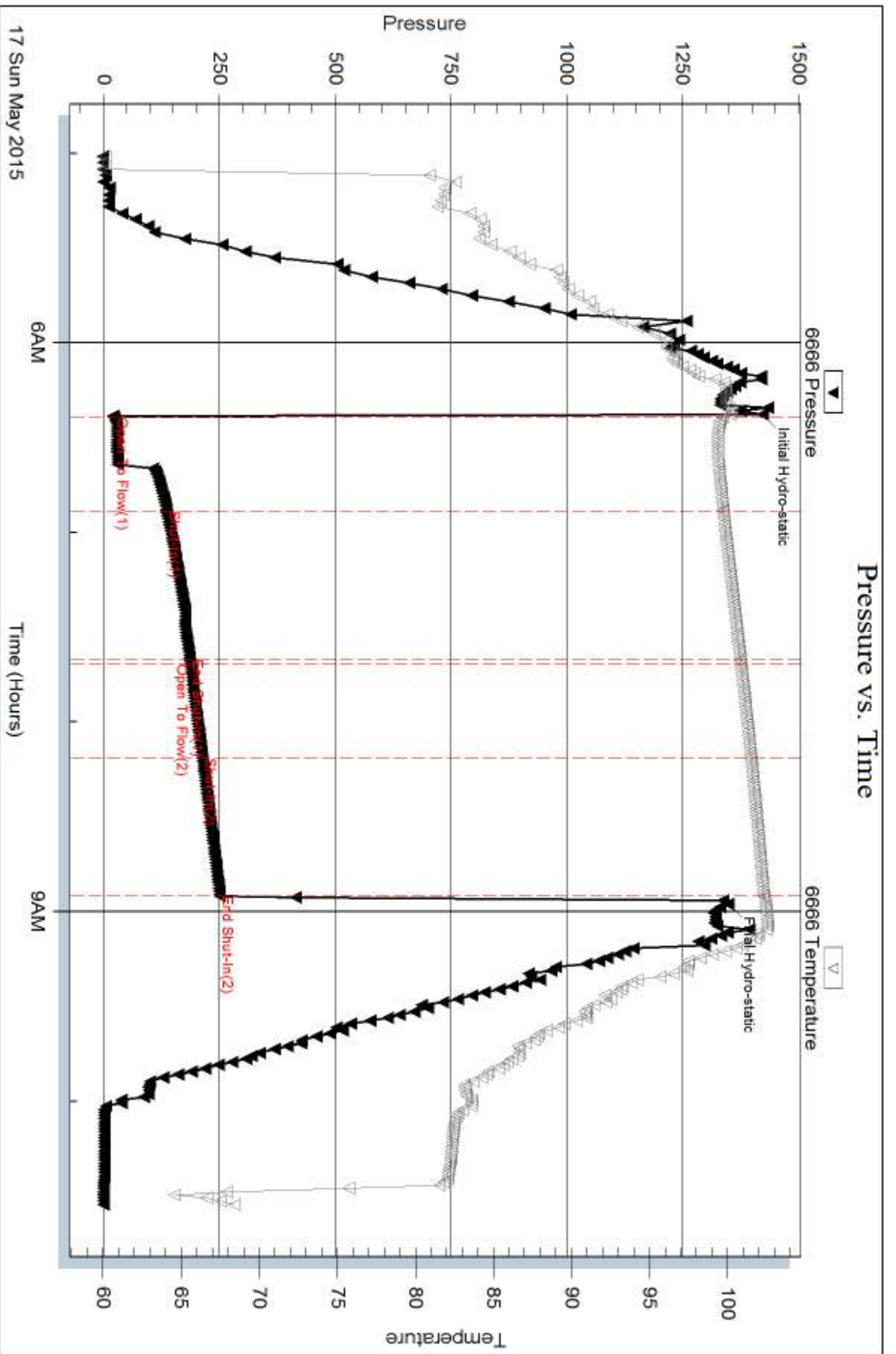
Num Gas Bombs: 0

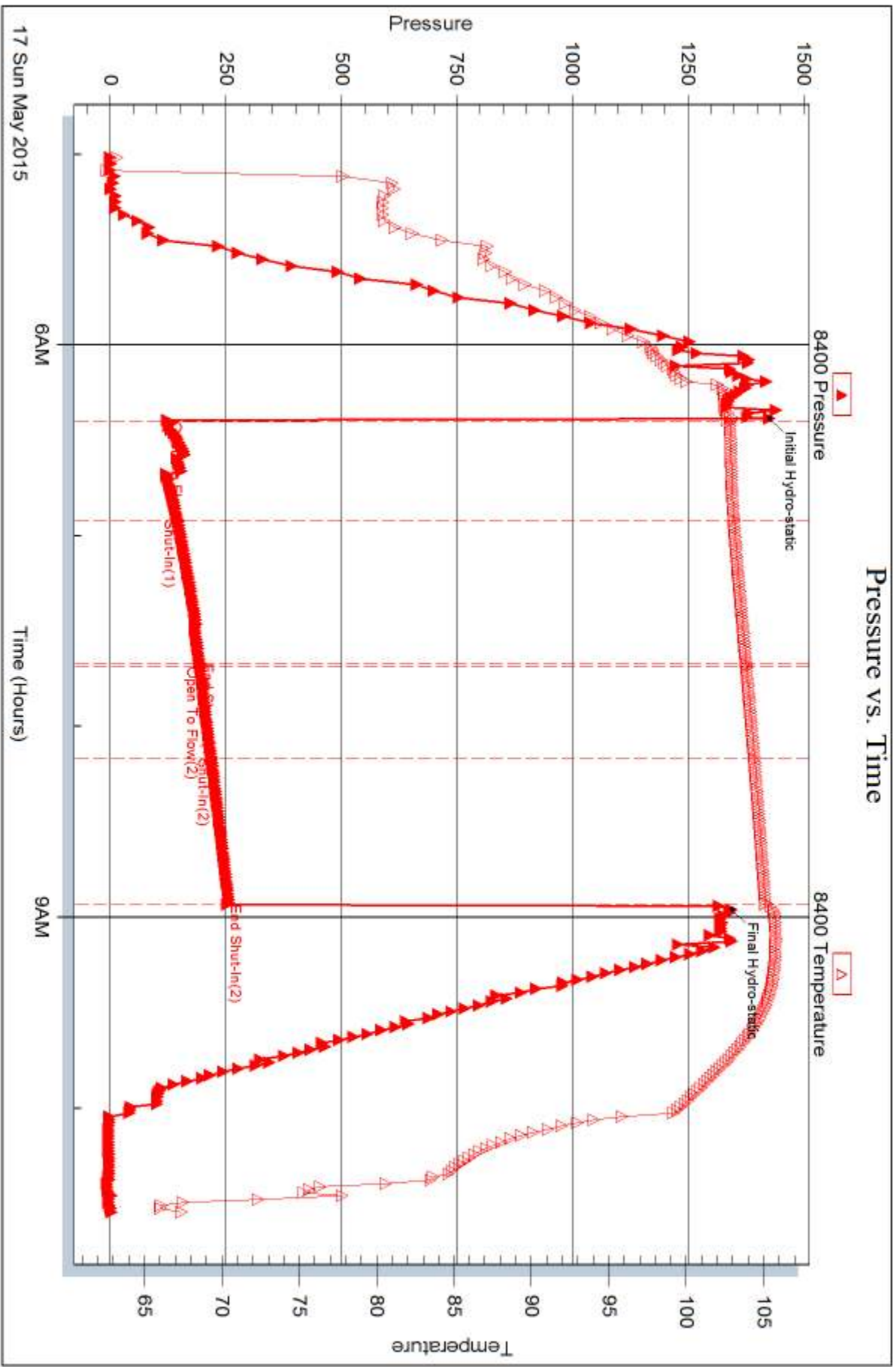
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Water Front Pkwy Bldg 300B Wichita  
KS 67206

ATTN: Ken Leblanc

### **Bushton #1-20**

#### **26-17s-9w Ellsworth,KS**

Start Date: 2015.05.18 @ 09:15:00

End Date: 2015.05.18 @ 16:38:00

Job Ticket #: 62922                      DST #: 2

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

Printed: 2015.05.20 @ 09:29:56





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkw y Bldg 300B Wichita KS 67206

**Bushton #1-20**

ATTN: Ken Leblanc

Job Ticket: 62922

**DST#: 2**

Test Start: 2015.05.18 @ 09:15:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:05:30

Time Test Ended: 16:38:00

Test Type: Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

**Interval: 3168.00 ft (KB) To 3222.00 ft (KB) (TVD)**

Reference Elevations: 1773.00 ft (KB)

Total Depth: 3222.00 ft (KB) (TVD)

1765.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8400**

**Inside**

Press@RunDepth: 157.72 psig @ 3218.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2015.05.18

End Date:

2015.05.18

Last Calib.:

2015.05.18

Start Time: 09:16:00

End Time:

16:38:00

Time On Btm:

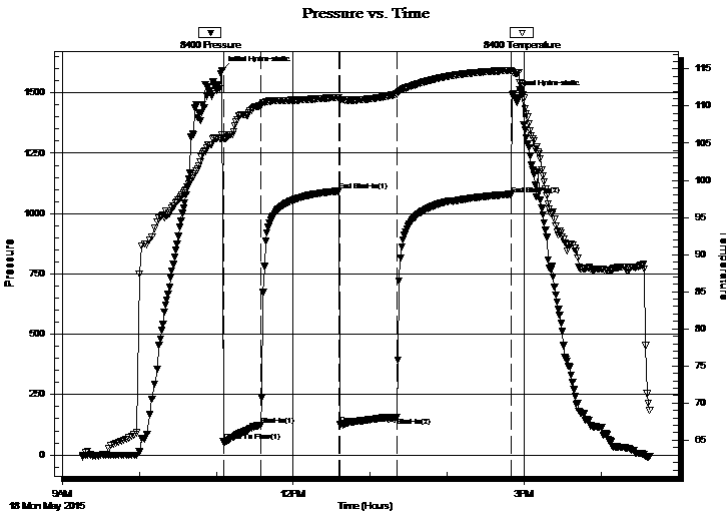
2015.05.18 @ 11:04:30

Time Off Btm:

2015.05.18 @ 14:50:30

**TEST COMMENT:** IFP-30 Minutes-Fair blow built 7"  
 ISIP-60 Minutes-Very weak surface blow  
 FFP-45 Minutes-BOB in 26 minutes  
 FSIP-90 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.42	106.19	Initial Hydro-static
1	54.52	105.57	Open To Flow (1)
30	122.75	110.02	Shut-In(1)
91	1093.61	111.17	End Shut-In(1)
92	128.15	110.86	Open To Flow (2)
136	157.72	111.62	Shut-In(2)
225	1079.83	114.80	End Shut-In(2)
226	1491.73	114.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OGM 10%O 30%G 60%M	0.30
60.00	GMO 20%G 50%O 30%M	0.30
60.00	GOM 10%G 10%O 80%M	0.30
60.00	OGM 20%O 40%G 40%M	0.84
65.00	Oil 100%	0.91
300.00	Gas in pipe	4.21

## Gas Rates

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



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# DRILL STEM TEST REPORT

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkw y Bldg 300B Wichita KS  
67206

**Bushton #1-20**

Job Ticket: 62922

**DST#: 2**

ATTN: Ken Leblanc

Test Start: 2015.05.18 @ 09:15:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:05:30

Time Test Ended: 16:38:00

Test Type: Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

**Interval: 3168.00 ft (KB) To 3222.00 ft (KB) (TVD)**

Reference Elevations: 1773.00 ft (KB)

Total Depth: 3222.00 ft (KB) (TVD)

1765.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6666 Outside**

Press@RunDepth: 1078.06 psig @ 3219.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2015.05.18

End Date:

2015.05.18

Last Calib.:

2015.05.18

Start Time:

09:16:00

End Time:

16:38:00

Time On Btm:

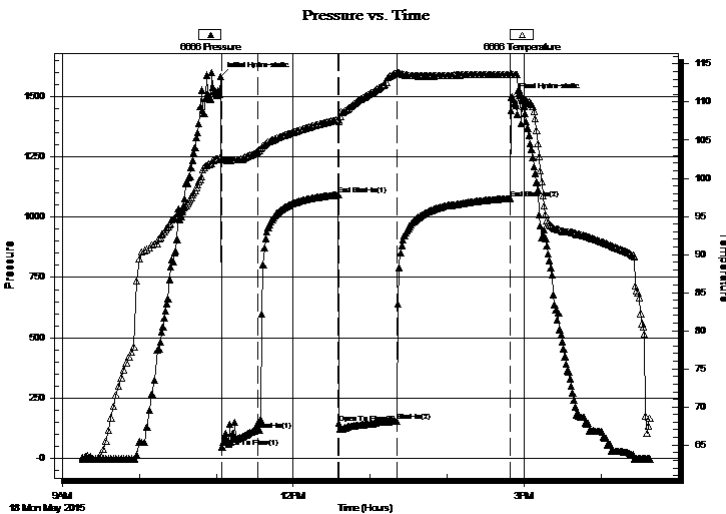
2015.05.18 @ 11:03:30

Time Off Btm:

2015.05.18 @ 14:50:00

**TEST COMMENT:** IFP-30 Minutes-Fair blow built 7"  
ISIP-60 Minutes-Very weak surface blow  
FFP-45 Minutes-BOB in 26 minutes  
FSIP-90 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1582.20	102.68	Initial Hydro-static
1	45.14	102.44	Open To Flow (1)
29	116.98	103.47	Shut-In(1)
92	1092.44	107.69	End Shut-In(1)
92	146.75	107.48	Open To Flow (2)
137	154.66	113.82	Shut-In(2)
226	1078.06	113.62	End Shut-In(2)
227	1497.09	113.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OGM 10%O 30%G 60%M	0.30
60.00	GMO 20%G 50%O 30%M	0.30
60.00	GOM 10%G10%O 80%M	0.30
60.00	OGM 20%O 40%G 40%M	0.84
65.00	Oil 100%	0.91
300.00	Gas in pipe	4.21

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkwy Bldg 300B Wichita KS  
67206

**Bushton #1-20**

Job Ticket: 62922

**DST#: 2**

ATTN: Ken Leblanc

Test Start: 2015.05.18 @ 09:15:00

## Tool Information

Drill Pipe:	Length: 2976.00 ft	Diameter: 3.80 inches	Volume: 41.75 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: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 42.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3168.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	76.00 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			3151.00	
Hydraulic tool	5.00			3156.00	
Safety Joint	2.00			3158.00	
Packer	5.00			3163.00	22.00 Bottom Of Top Packer
Packer	5.00			3168.00	
Change Over Sub	0.75			3168.75	
Drill Pipe	31.50			3200.25	
Change Over Sub	0.75			3201.00	
Anchor	16.00			3217.00	
Recorder	1.00	8400	Inside	3218.00	
Recorder	1.00	6666	Outside	3219.00	
Bullnose	3.00			3222.00	54.00 Bottom Packers & Anchor

**Total Tool Length: 76.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkw y Bldg 300B Wichita KS  
67206

**Bushton #1-20**

Job Ticket: 62922

**DST#: 2**

ATTN: Ken Leblanc

Test Start: 2015.05.18 @ 09:15:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

49 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OGM 10%O 30%G 60%M	0.295
60.00	GMO 20%G 50%O 30%M	0.295
60.00	GOM 10%G10%O 80%M	0.295
60.00	OGM 20%O 40%G 40%M	0.842
65.00	Oil 100%	0.912
300.00	Gas in pipe	4.208

Total Length: 605.00 ft

Total Volume: 6.847 bbl

Num Fluid Samples: 0

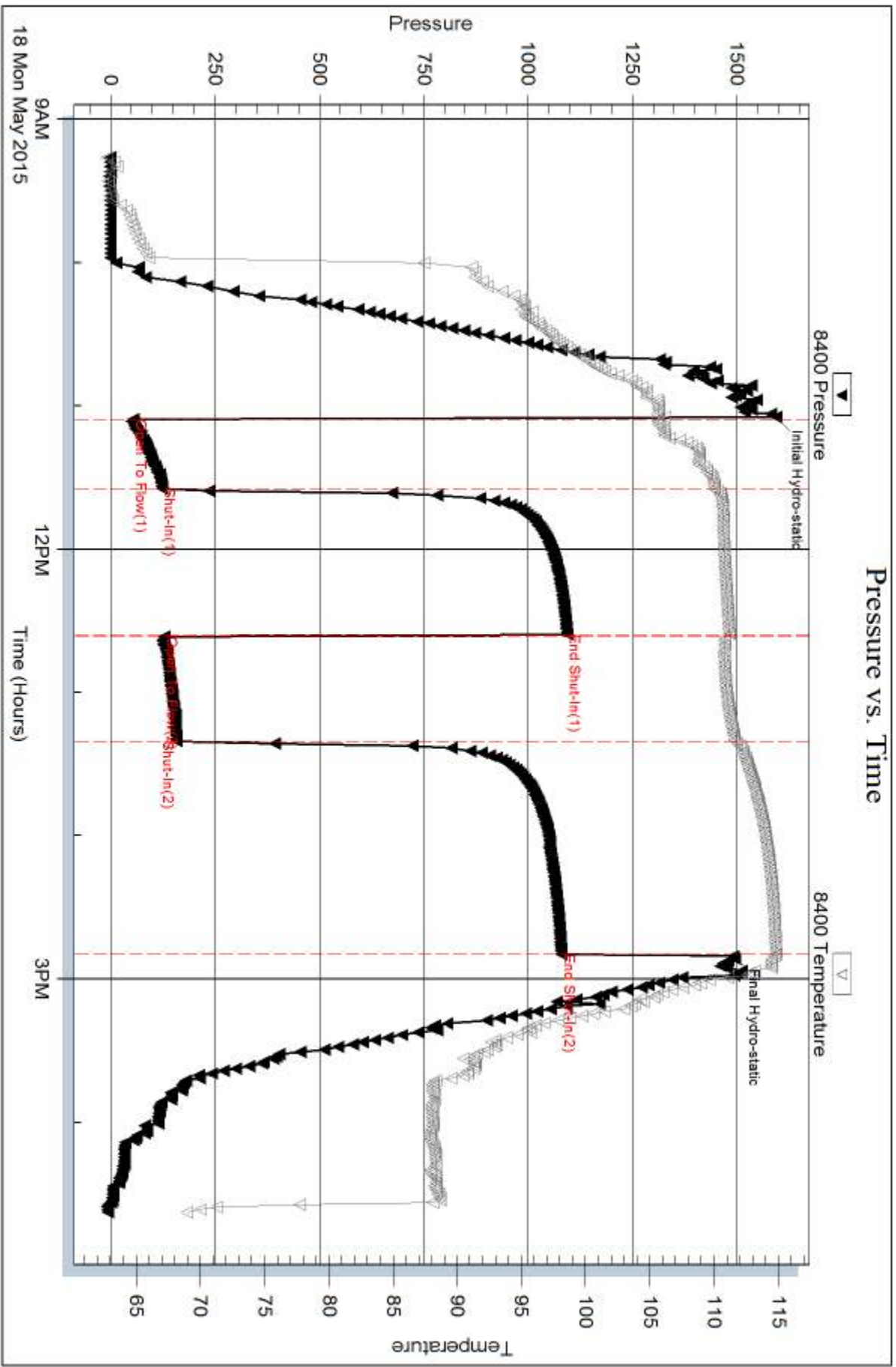
Num Gas Bombs: 0

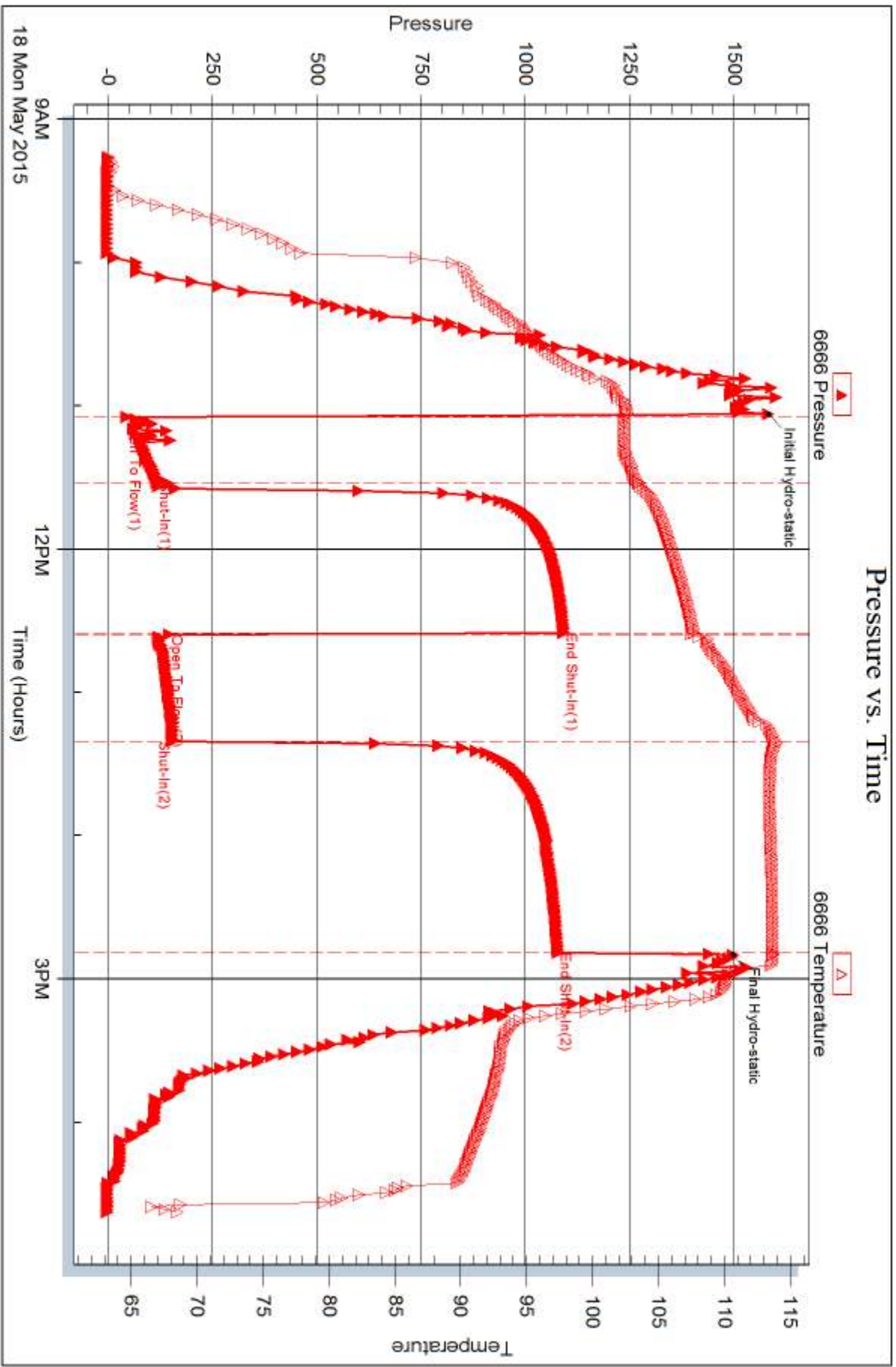
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 49







## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Water Front Pkwy Bldg 300B Wichita  
KS 67206

ATTN: Ken Leblanc

### **Bushton #1-20**

#### **26-17s-9w Ellsworth,KS**

Start Date: 2015.05.18 @ 23:00:00

End Date: 2015.05.19 @ 06:25:00

Job Ticket #: 62923                      DST #: 3

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

Printed: 2015.05.20 @ 09:25:52



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkw y Bldg 300B Wichita KS  
67206

**Bushton #1-20**

Job Ticket: 62923

**DST#: 3**

ATTN: Ken Leblanc

Test Start: 2015.05.18 @ 23:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:21:00

Time Test Ended: 06:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

**Interval: 3222.00 ft (KB) To 3227.00 ft (KB) (TVD)**

Reference Elevations: 1773.00 ft (KB)

Total Depth: 3227.00 ft (KB) (TVD)

1765.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8400 Inside**

Press@RunDepth: 1106.01 psig @ 3223.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2015.05.18

End Date:

2015.05.19

Last Calib.:

2015.05.19

Start Time: 23:01:00

End Time:

06:25:00

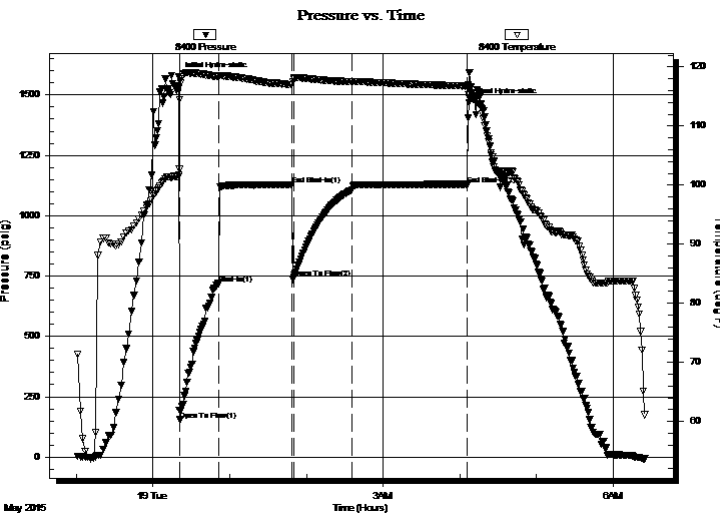
Time On Btm:

2015.05.19 @ 00:20:00

Time Off Btm:

2015.05.19 @ 04:07:00

**TEST COMMENT:** IFP-30 Minutes-BOB 1 1/2 minutes  
ISIP-60 Minutes-No blow back  
FFP-45 Minutes-BOB in 1 minute  
FSIP-90 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1575.12	101.68	Initial Hydro-static
1	154.95	114.50	Open To Flow (1)
32	718.98	118.41	Shut-In(1)
89	1129.13	117.01	End Shut-In(1)
90	743.98	118.09	Open To Flow (2)
136	1106.01	117.51	Shut-In(2)
226	1129.74	116.75	End Shut-In(2)
227	1467.06	115.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1320.00	water	16.88
600.00	omw 1%o 10%m 89%w	8.42
180.00	omw 5%o 85%w 10%m	2.52
180.00	omw 10%o 10%m 80%w	2.52
60.00	mw o 10%m 205w 70%o	0.84

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkw y Bldg 300B Wichita KS  
67206

**Bushton #1-20**

Job Ticket: 62923

**DST#: 3**

ATTN: Ken Leblanc

Test Start: 2015.05.18 @ 23:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:21:00

Time Test Ended: 06:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

**Interval: 3222.00 ft (KB) To 3227.00 ft (KB) (TVD)**

Reference Elevations: 1773.00 ft (KB)

Total Depth: 3227.00 ft (KB) (TVD)

1765.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6666 Outside**

Press@RunDepth: 1128.15 psig @ 3224.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2015.05.18

End Date:

2015.05.19

Last Calib.:

2015.05.19

Start Time:

23:01:00

End Time:

06:24:30

Time On Btm:

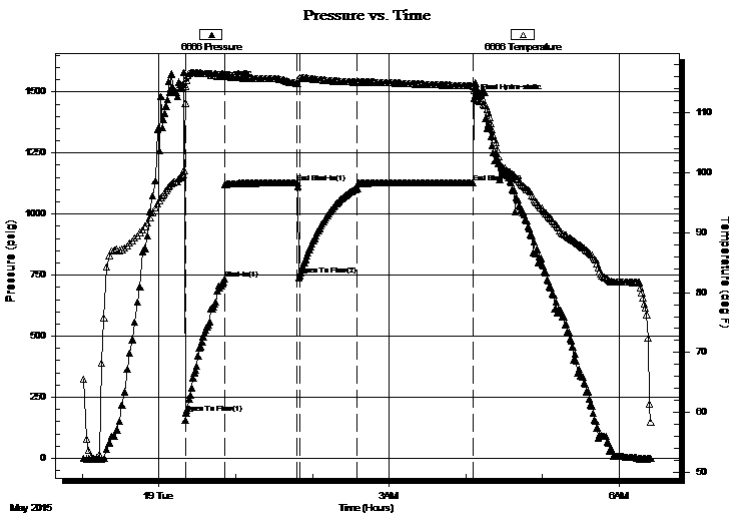
2015.05.19 @ 00:19:00

Time Off Btm:

2015.05.19 @ 04:06:30

**TEST COMMENT:** IFP-30 Minutes-BOB 1 1/2 minutes  
ISIP-60 Minutes-No blow back  
FFP-45 Minutes-BOB in 1 minute  
FSIP-90 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1529.57	99.61	Initial Hydro-static
2	186.27	114.40	Open To Flow (1)
32	733.93	116.02	Shut-In(1)
89	1127.66	114.86	End Shut-In(1)
91	749.10	115.78	Open To Flow (2)
136	1106.03	115.07	Shut-In(2)
227	1128.15	114.41	End Shut-In(2)
228	1473.02	113.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1320.00	water	16.88
600.00	omw 1%o 10%m 89%w	8.42
180.00	omw 5%o 85%w 10%m	2.52
180.00	omw 10%o 10%m 80%w	2.52
60.00	mw o 10%m 205w 70%o	0.84

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkwy Bldg 300B Wichita KS  
67206

**Bushton #1-20**

Job Ticket: 62923

**DST#: 3**

ATTN: Ken Leblanc

Test Start: 2015.05.18 @ 23:00:00

## Tool Information

Drill Pipe:	Length: 3050.00 ft	Diameter: 3.80 inches	Volume: 42.78 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:	20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 43.67 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3222.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	5.00 ft				
Tool Length:	27.00 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			3205.00	
Hydraulic tool	5.00			3210.00	
Safety Joint	2.00			3212.00	
Packer	5.00			3217.00	22.00 Bottom Of Top Packer
Packer	5.00			3222.00	
Recorder	1.00	8400	Inside	3223.00	
Recorder	1.00	6666	Outside	3224.00	
Anchor	3.00			3227.00	5.00 Bottom Packers & Anchor

**Total Tool Length: 27.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

CMX Inc

**26-17s-9w Ellsworth,KS**

1700 N Water Front Pkw y Bldg 300B Wichita KS  
67206

**Bushton #1-20**

Job Ticket: 62923

**DST#: 3**

ATTN: Ken Leblanc

Test Start: 2015.05.18 @ 23:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1320.00	water	16.876
600.00	omw 1%o10%m89%w	8.416
180.00	omw 5%o 85%w 10%m	2.525
180.00	omw 10%o 10%m 80%w	2.525
60.00	mw o 10%m 205w 70%o	0.842

Total Length: 2340.00 ft Total Volume: 31.184 bbl

Num Fluid Samples: 0

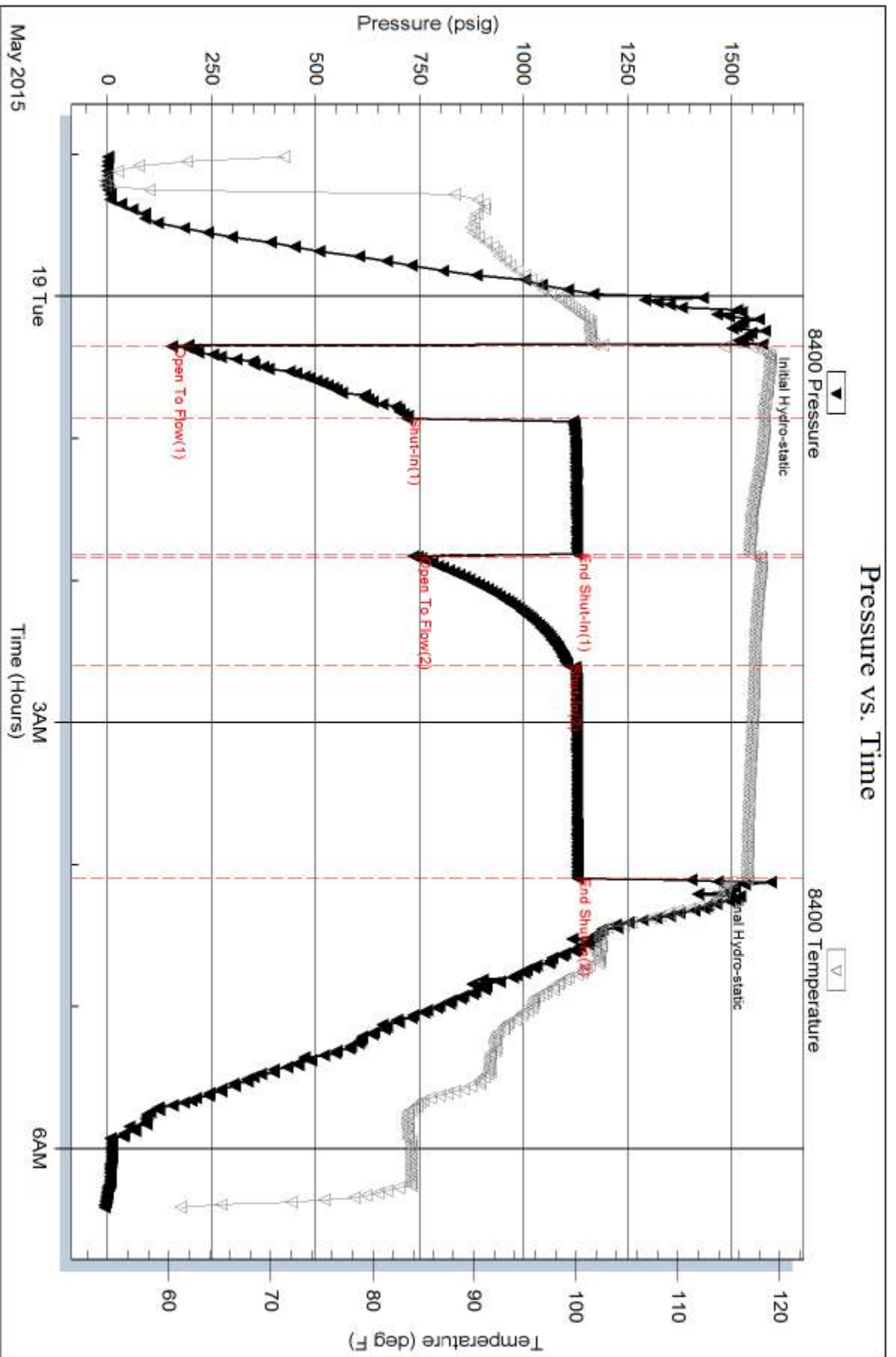
Num Gas Bombs: 0

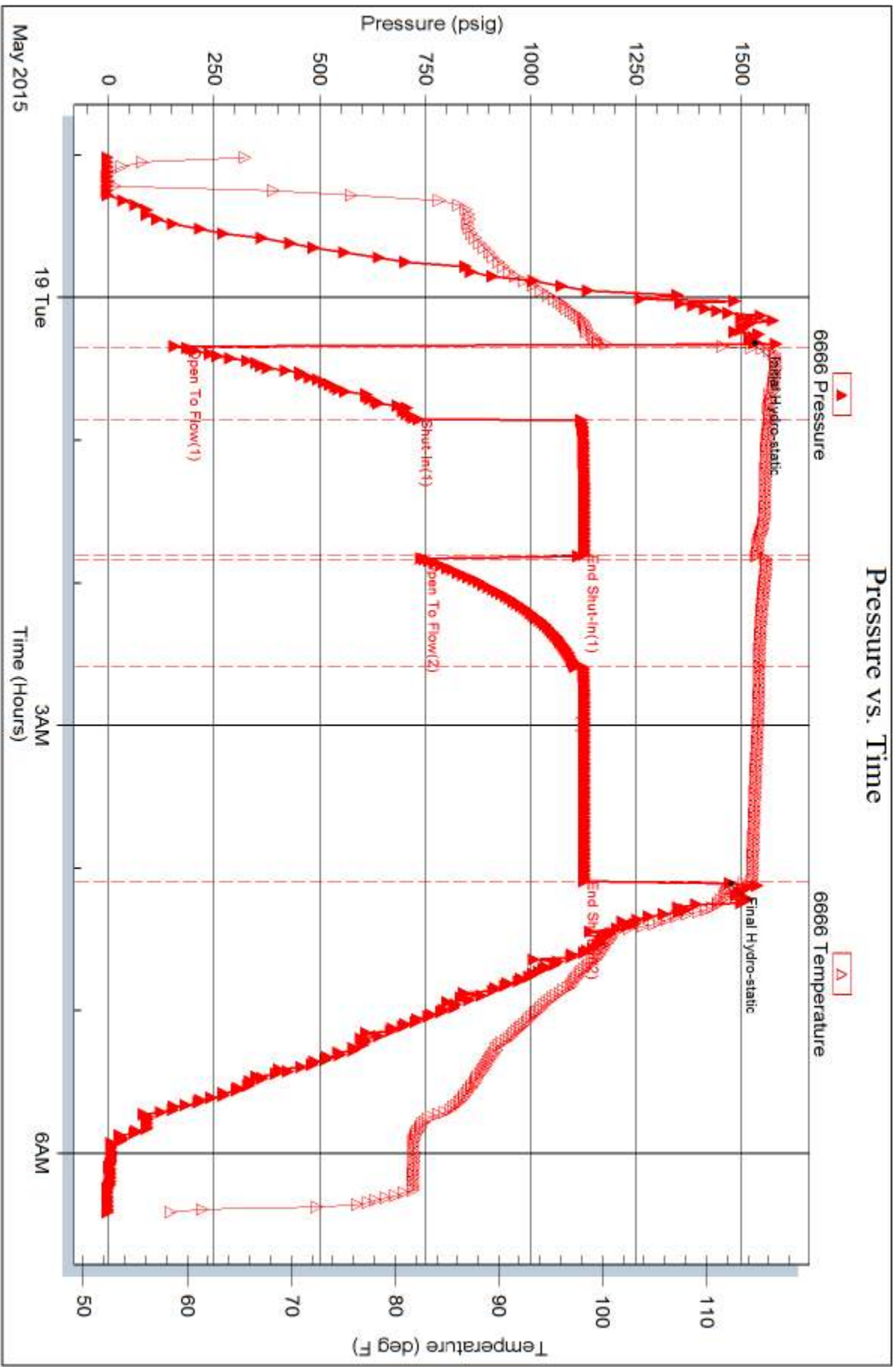
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rW .2 @ 60







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62921

Well Name & No. Bushton #1-20 Test No. 1 Date 5-17-2015  
 Company CMX Inc Elevation 6773 KB 1765 GL  
 Address 1700 N Water Front PKWY Bldg 300B Wichita KS 67206  
 Co. Rep / Geo. Ken LeBlanc Rig Duke Drilling Rig #7  
 Location: Sec. 26 Twp. 17s Rge. 9w Co. Ellsworth State KS

Interval Tested 2895-2920 Zone Tested Lansing B zone  
 Anchor Length 22 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.9  
 Top Packer Depth 2890 Drill Collars Run \_\_\_\_\_ Vis 56  
 Bottom Packer Depth 2895 Wt. Pipe Run \_\_\_\_\_ WL 96  
 Total Depth 2920 Chlorides 4.000 ppm System LCM -

Blow Description TFP-Weak Blow Built 2 1/2 inches into water Dried off  
RSIP - NO Blow Back  
FFP - Very Weak Surface Blow Did not Build  
FSIP - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>				
____	____				
____	____				
____	____				
____	____				

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

(A) Initial Hydrostatic 1421  
 (B) First Initial Flow 23  
 (C) First Final Flow 134  
 (D) Initial Shut-In 185  
 (E) Second Initial Flow 186  
 (F) Second Final Flow 212  
 (G) Final Shut-In 250  
 (H) Final Hydrostatic 1348

- Test 850
  - Jars \_\_\_\_\_
  - Safety Joint 75
  - Circ Sub \_\_\_\_\_
  - Hourly Standby \_\_\_\_\_
  - Mileage 95 RT Great Bend
  - Sampler 55
  - Straddle \_\_\_\_\_
  - Shale Packer \_\_\_\_\_
  - Extra Packer \_\_\_\_\_
  - Extra Recorder \_\_\_\_\_
  - Day Standby \_\_\_\_\_
  - Accessibility \_\_\_\_\_
- Sub Total 980

T-On Location 3:15 AM  
 T-Started 5:00 AM  
 T-Open 6:24 AM  
 T-Pulled 8:54  
 T-Out 10:33

Comments \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 980  
 MP/DST Disc't \_\_\_\_\_

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

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62922

Well Name & No. Bushlan # 1-20 Test No. 2 Date 5-18-2015  
 Company CMX Inc Elevation 1773 KB 1765 GL  
 Address 1700 N Water Front Pkwy Bldg 300B Wichita KS 67206  
 Co. Rep / Geo. Ken Heblanc Rig Duke Drilling Rig # 7  
 Location: Sec. 26 Twp. 17s Rge. 9w Co. Ellsworth State KS

Interval Tested 3168-3222 Zone Tested Simpson Sand  
 Anchor Length 54 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.1  
 Top Packer Depth 3163 Drill Collars Run \_\_\_\_\_ Vis 60  
 Bottom Packer Depth 3168 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 3222 Chlorides 3,800 ppm System LCM \_\_\_\_\_

Blow Description TFP- Fair Blow Built 7 inches into Bucket  
ISIP- Very Weak Surface Blow  
FFP- Fair Blow Built Bottom of Bucket in 26 minutes  
FSIP- NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>06 M</u>	<u>30</u>	<u>10</u>	<u>-</u>	<u>60</u>
<u>60</u>	<u>60 M</u>	<u>20</u>	<u>50</u>	<u>-</u>	<u>30</u>
<u>60</u>	<u>60 M</u>	<u>10</u>	<u>10</u>	<u>-</u>	<u>80</u>
<u>60</u>	<u>06 M</u>	<u>40</u>	<u>20</u>	<u>-</u>	<u>40</u>
<u>65</u>	<u>0.1</u>	<u>-</u>	<u>100</u>	<u>-</u>	<u>-</u>

Rec Total 305 BHT \_\_\_\_\_ Gravity 49 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 1593  Test 1050 T-On Location 8:40A  
 (B) First Initial Flow 54  Jars \_\_\_\_\_ T-Started 9:15A  
 (C) First Final Flow 122  Safety Joint 75 T-Open 10:59A  
 (D) Initial Shut-In 1093  Circ Sub \_\_\_\_\_ T-Pulled 2:44p  
 (E) Second Initial Flow 128  Hourly Standby \_\_\_\_\_ T-Out 4:38  
 (F) Second Final Flow 159  Mileage 75 RT Grant Band Comments \_\_\_\_\_  
 (G) Final Shut-In 1079  Sampler 55 \_\_\_\_\_  
 (H) Final Hydrostatic 1491  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1180 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62923

4/10

Well Name & No. Bushton # 1-20 Test No. 3 Date 5-18-2015  
 Company CMX Inc Elevation 1773 KB 1765 GL  
 Address 1700 N Water front PKWY Bldg 300B Wichita KS 67206  
 Co. Rep / Geo. Ken LaBlanc Rig Duke Drilling Rig #7  
 Location: Sec. 26 Twp. 17s Rge. 9w Co. Ellsworth State KS

Interval Tested 3222 - 3227 Zone Tested Albuckle  
 Anchor Length 5 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.10  
 Top Packer Depth 3217 Drill Collars Run \_\_\_\_\_ Vis 64  
 Bottom Packer Depth 3222 Wt. Pipe Run \_\_\_\_\_ WL 10.  
 Total Depth 3227 Chlorides 5000 ppm System LCM \_\_\_\_\_  
 Blow Description IFP-Strong Blow Built Bottom Bucket in 1 1/2 minutes  
ISIP-NO Blow Back  
FFP-Strong Blow Built Bottom of Bucket in 1 minute  
FSIP-NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1320</u>	<u>Water</u>				
<u>600</u>	<u>OMW</u>		<u>2</u>	<u>89</u>	<u>10</u>
<u>180</u>	<u>OMW</u>		<u>5</u>	<u>85</u>	<u>10</u>
<u>180</u>	<u>OMW</u>		<u>10</u>	<u>80</u>	<u>10</u>
<u>60</u>	<u>MWO</u>		<u>70</u>	<u>20</u>	<u>10</u>

Rec Total 2340 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW 20 @ 50 ° F Chlorides 28,000 ppm

(A) Initial Hydrostatic 1575  Test 1050 T-On Location 10:40p  
 (B) First Initial Flow 154  Jars \_\_\_\_\_ T-Started 12:00  
 (C) First Final Flow 718  Safety Joint 75 T-Open 12:22  
 (D) Initial Shut-In 1129  Circ Sub \_\_\_\_\_ T-Pulled 4:07  
 (E) Second Initial Flow 743  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 1106  Mileage 75 FT Great Bend Comments \_\_\_\_\_  
 (G) Final Shut-In 1129  Sampler 55 \_\_\_\_\_  
 (H) Final Hydrostatic 1467  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies 0  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1180  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 1180

Approved By \_\_\_\_\_ Our Representative [Signature]

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