



DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Waterfront Pkwy
Bldg 300 B
Wichita KS 67206

ATTN: Ken Leblanc

Bushton #1-30

30-17s-9w Ellsworth,KS

Start Date: 2015.12.31 @ 19:20:00

End Date: 2016.01.01 @ 02:40:16

Job Ticket #: 62975 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.01.04 @ 08:51:43



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

CMX Inc
 1700 N Waterfront Pkw y
 Bldg 300 B
 Wichita KS 67206
 ATTN: Ken Leblanc

30-17s-9w Ellsworth,KS

Bushton #1-30

Job Ticket: 62975 **DST#: 1**

Test Start: 2015.12.31 @ 19:20:00

GENERAL INFORMATION:

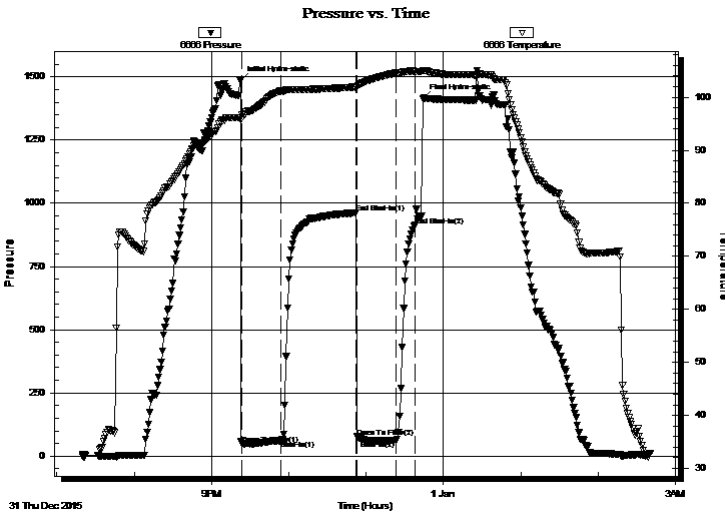
Formation: **LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:23:46
 Time Test Ended: 02:40:16
 Interval: **2985.00 ft (KB) To 3000.00 ft (KB) (TVD)**
 Total Depth: 3010.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Jared Scheck
 Unit No: 55
 Reference Elevations: 1766.00 ft (KB)
 1758.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6666 Inside

Press@RunDepth: 62.60 psig @ 2998.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.12.31 End Date: 2016.01.01 Last Calib.: 2016.01.01
 Start Time: 19:20:01 End Time: 02:40:16 Time On Btm: 2015.12.31 @ 21:22:31
 Time Off Btm: 2015.12.31 @ 23:44:16

TEST COMMENT: IFP- 30 Minutes-BOB in 20 minutes
 ISIP-60 Minutes-No blow back
 FFP-30 Minutes-BOB in 27 Minutes
 FSIP-60 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1486.52	96.12	Initial Hydro-static
2	48.68	96.71	Open To Flow (1)
31	61.24	101.15	Shut-In(1)
90	962.55	101.93	End Shut-In(1)
91	76.19	101.87	Open To Flow (2)
121	62.60	104.54	Shut-In(2)
136	912.26	104.86	End Shut-In(2)
142	1414.83	105.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SMW 10% mud 90% w ater	0.84
45.00	MW 15% mud 85% w ater	0.63

Gas Rates

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



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CMX Inc
 1700 N Waterfront Pkw y
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 Wichita KS 67206
 ATTN: Ken Leblanc

30-17s-9w Ellsworth,KS

Bushton #1-30

Job Ticket: 62975 **DST#: 1**

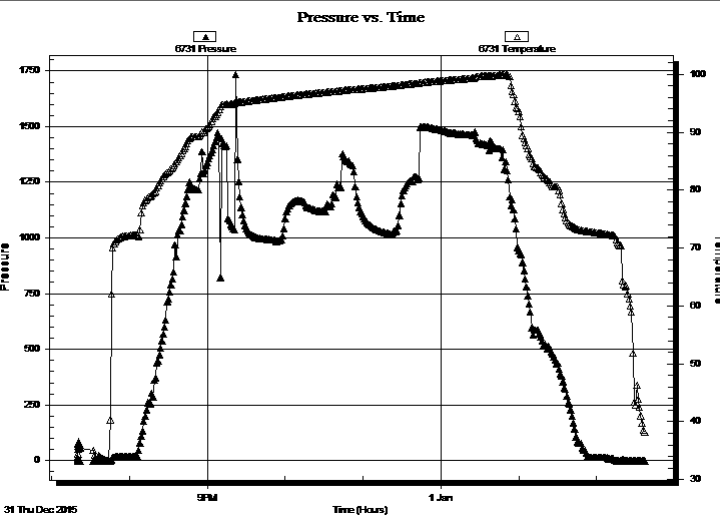
Test Start: 2015.12.31 @ 19:20:00

GENERAL INFORMATION:

Formation: **LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:23:46
 Time Test Ended: 02:40:16
 Interval: **2985.00 ft (KB) To 3000.00 ft (KB) (TVD)**
 Total Depth: 3010.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Jared Scheck
 Unit No: 55
 Reference Elevations: 1766.00 ft (KB)
 1758.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6731 Below (Straddle)
 Press@RunDepth: psig @ 3011.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.12.31 End Date: 2016.01.01 Last Calib.: 2016.01.01
 Start Time: 19:20:01 End Time: 02:37:46 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP- 30 Minutes-BOB in 20 minutes
 ISIP-60 Minutes-No blow back
 FFP-30 Minutes-BOB in 27 Minutes
 FSIP-60 Minutes-No blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	SMW 10% mud 90% w ater	0.84
45.00	MW 15% mud 85% w ater	0.63

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



**TRILOBITE
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DRILL STEM TEST REPORT

CMX Inc
1700 N Waterfront Pkw y
Bldg 300 B
Wichita KS 67206
ATTN: Ken Leblanc

30-17s-9w Ellsworth,KS

Bushton #1-30

Job Ticket: 62975

DST#: 1

Test Start: 2015.12.31 @ 19:20:00

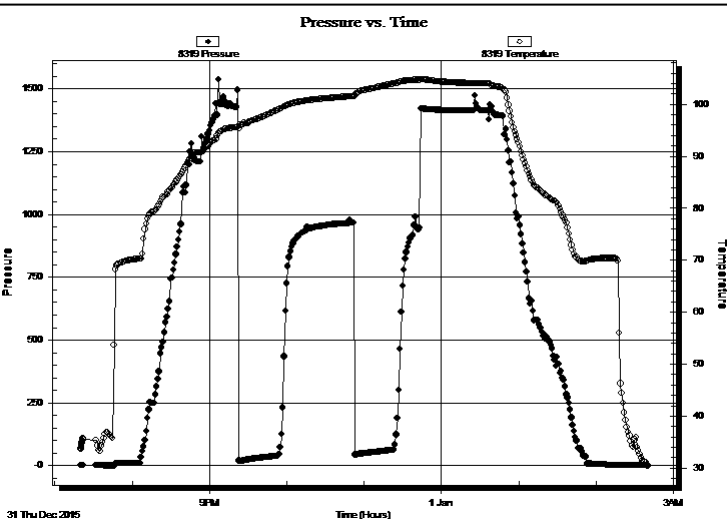
GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:23:46
Time Test Ended: 02:40:16
Interval: **2985.00 ft (KB) To 3000.00 ft (KB) (TVD)**
Total Depth: 3010.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1766.00 ft (KB)
1758.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Straddle (Initial)
Tester: Jared Scheck
Unit No: 55

Serial #: 8319 Outside

Press@RunDepth: psig @ 2999.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.12.31 End Date: 2016.01.01 Last Calib.: 2016.01.01
Start Time: 19:20:01 End Time: 02:40:16 Time On Btm:
Time Off Btm:

TEST COMMENT: IFP- 30 Minutes-BOB in 20 minutes
ISIP-60 Minutes-No blow back
FFP-30 Minutes-BOB in 27 Minutes
FSIP-60 Minutes-No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SMW 10% mud 90% w ater	0.84
45.00	MW 15% mud 85% w ater	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc
1700 N Waterfront Pkwy
Bldg 300 B
Wichita KS 67206
ATTN: Ken Leblanc

30-17s-9w Ellsworth,KS
Bushton #1-30
Job Ticket: 62975 **DST#: 1**
Test Start: 2015.12.31 @ 19:20:00

Tool Information

Drill Pipe:	Length: 2996.00 ft	Diameter: 3.80 inches	Volume: 42.03 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 42.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	2985.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	3000.00 ft			
Interval between Packers:	15.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			2968.00	
Hydraulic tool	5.00			2973.00	
Safety Joint	2.00			2975.00	
Packer	5.00			2980.00	22.00 Bottom Of Top Packer
Packer	5.00			2985.00	
Perforations	12.00			2997.00	
Recorder	1.00	6666	Inside	2998.00	
Recorder	1.00	8319	Outside	2999.00	
Blank Off Sub	1.00			3000.00	15.00 Tool Interval
Packer	5.00			3005.00	
tailpipe	5.00			3010.00	
Recorder	1.00	6731	Below	3011.00	
Bullnose	5.00			3016.00	16.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

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1700 N Waterfront Pkw y
Bldg 300 B
Wichita KS 67206
ATTN: Ken Leblanc

30-17s-9w Ellsworth,KS
Bushton #1-30
Job Ticket: 62975 **DST#: 1**
Test Start: 2015.12.31 @ 19:20:00

Mud and Cushion Information

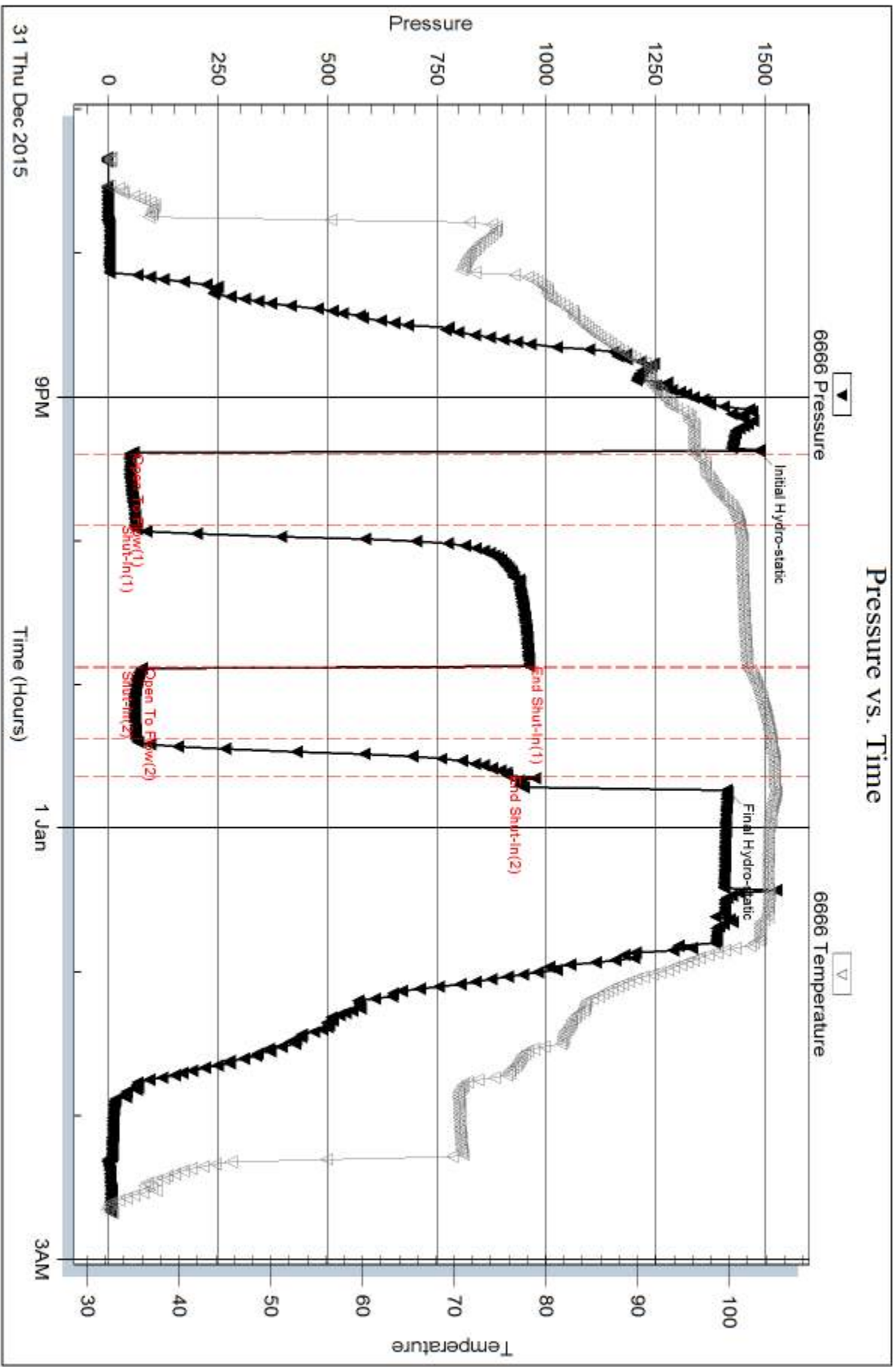
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	30000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: 1.00 inches			

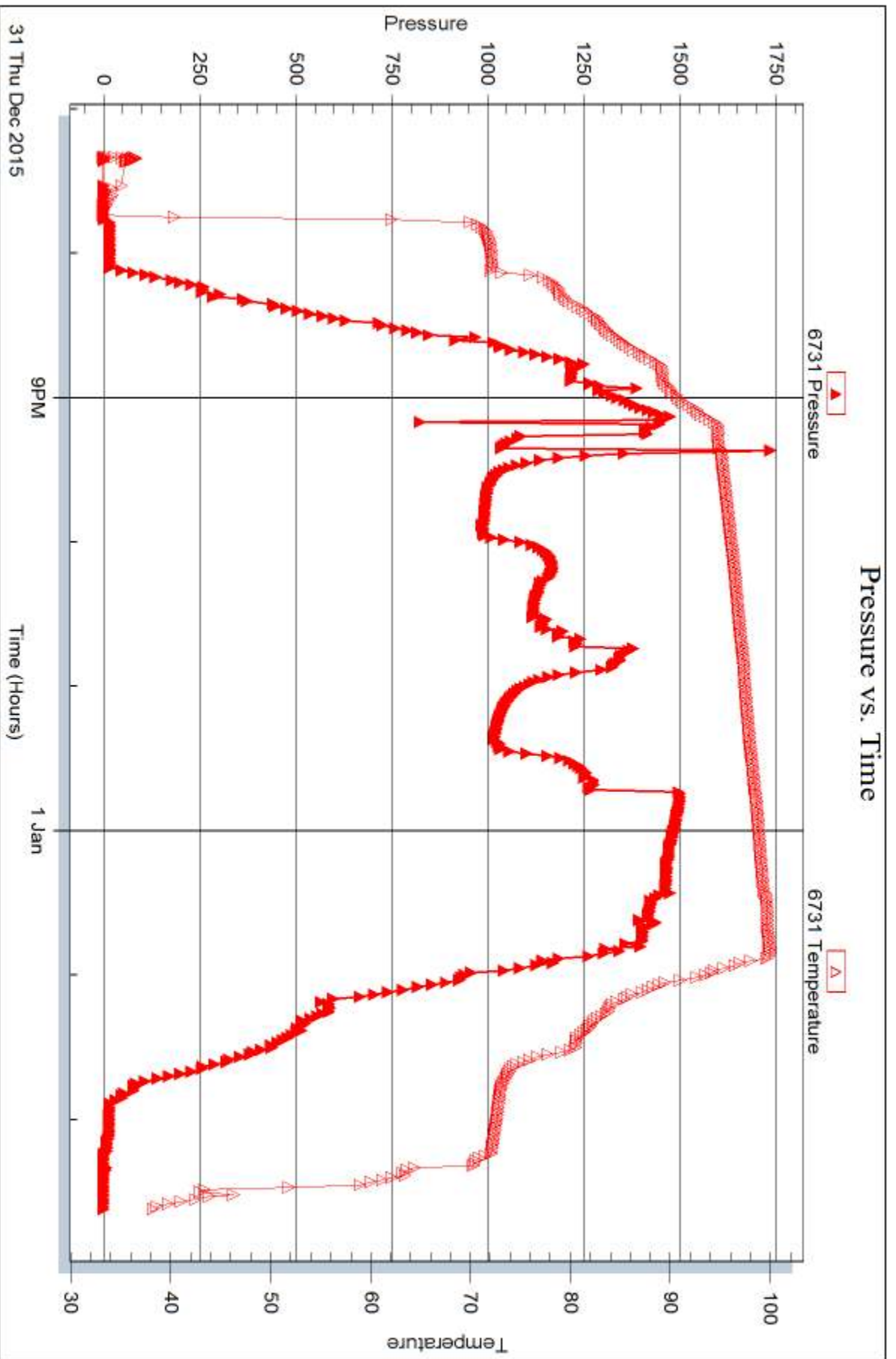
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SMW 10%mud 90%w ater	0.842
45.00	MW 15%mud 85%w ater	0.631

Total Length: 105.00 ft Total Volume: 1.473 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Resistivity.3 @ 55 degrees



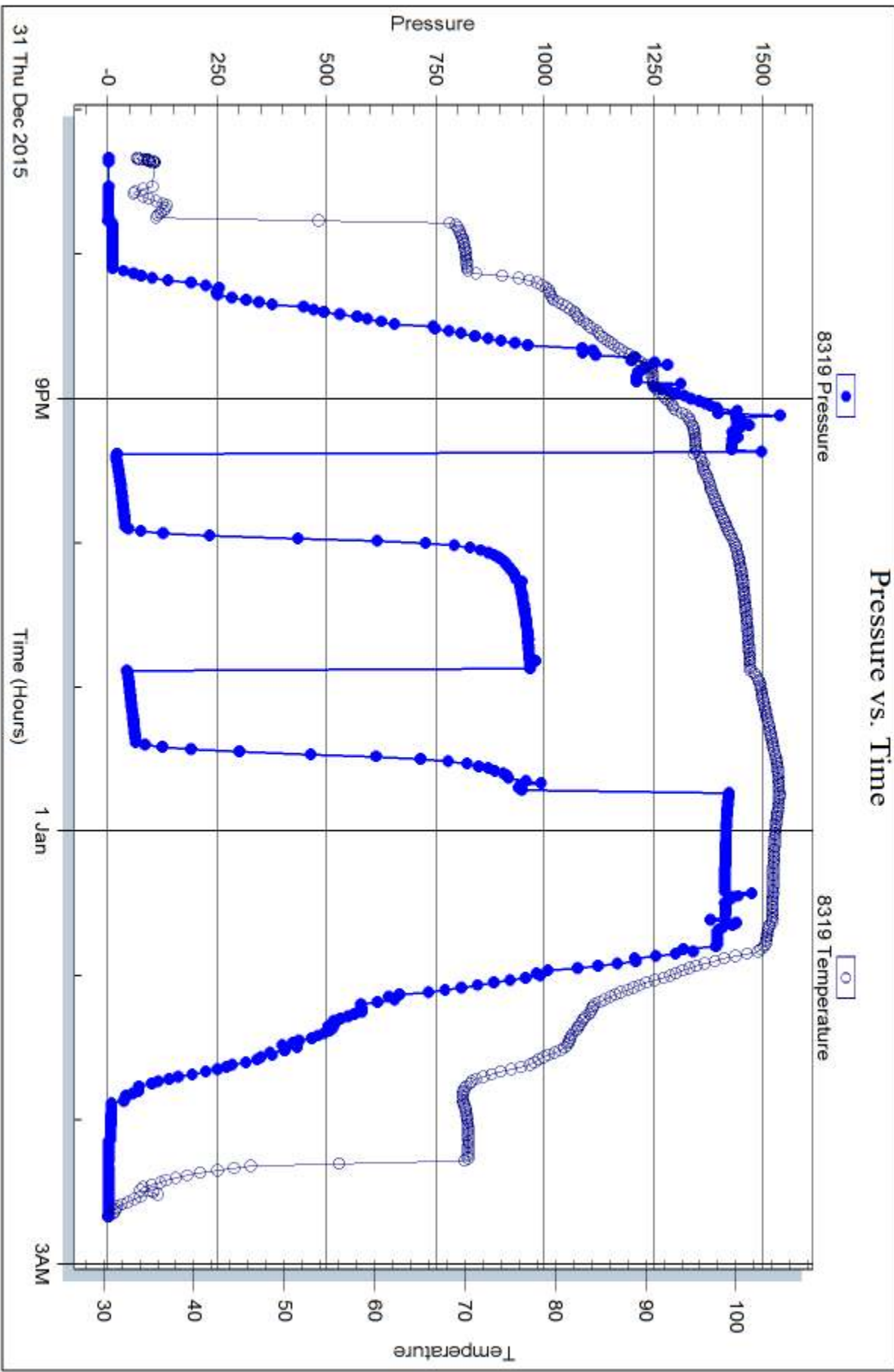


Serial #: 8319

Outside CMX Inc

Bushion #1-30

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62975

Printed: 2016.01.04 @ 08:51:45



DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Waterfront Pkwy
Bldg 300 B
Wichita KS 67206

ATTN: Ken Leblanc

Bushton #1-30

30-17s-9w Ellsworth,KS

Start Date: 2016.01.02 @ 00:20:00

End Date: 2016.01.02 @ 08:30:16

Job Ticket #: 62976 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.01.04 @ 08:50:23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

CMX Inc
1700 N Waterfront Pkw y
Bldg 300 B
Wichita KS 67206
ATTN: Ken Leblanc

30-17s-9w Ellsworth,KS

Bushton #1-30

Job Ticket: 62976

DST#: 2

Test Start: 2016.01.02 @ 00:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:19:46

Time Test Ended: 08:30:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

Interval: 3170.00 ft (KB) To 3242.00 ft (KB) (TVD)

Reference Elevations: 1766.00 ft (KB)

Total Depth: 3242.00 ft (KB) (TVD)

1758.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6731 Outside

Press@RunDepth: 59.80 psig @ 3172.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.01.02 End Date: 2016.01.02

Last Calib.: 2016.01.02

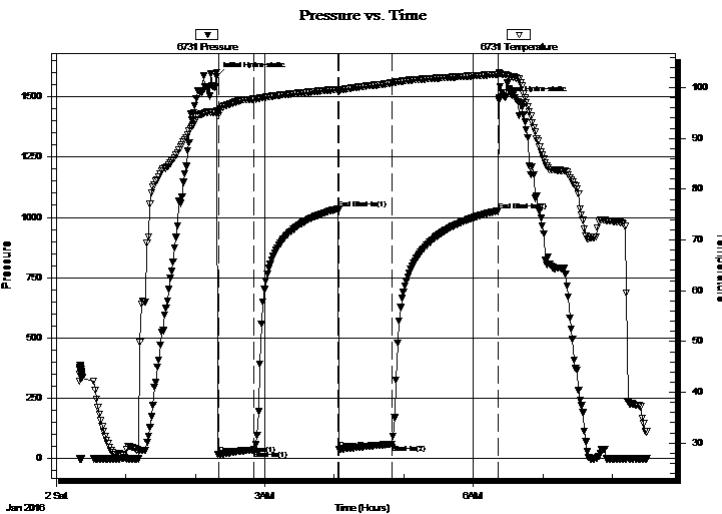
Start Time: 00:20:01 End Time: 08:30:16

Time On Btm: 2016.01.02 @ 02:18:31

Time Off Btm: 2016.01.02 @ 06:22:16

TEST COMMENT: IFP-30 Minutes-Fair blow built 1" from bottom of bucket
ISIP-60 Minutes-No blow back
FFP-60 Minutes-BOB in 30 minutes
FSIP-90 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1582.43	95.34	Initial Hydro-static
2	16.37	95.17	Open To Flow (1)
32	35.87	97.74	Shut-In(1)
105	1035.37	99.67	End Shut-In(1)
106	38.50	99.49	Open To Flow (2)
151	59.80	100.93	Shut-In(2)
243	1027.70	102.61	End Shut-In(2)
244	1483.70	103.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM 10%oil 90%mud	0.84
120.00	GO 10%gas 90 %oil	1.68
0.00	120' GIP	0.00

Gas Rates

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



DRILL STEM TEST REPORT

CMX Inc
 1700 N Waterfront Pkw y
 Bldg 300 B
 Wichita KS 67206
 ATTN: Ken Leblanc

30-17s-9w Ellsworth, KS

Bushton #1-30

Job Ticket: 62976

DST#: 2

Test Start: 2016.01.02 @ 00:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:19:46

Time Test Ended: 08:30:16

Interval: 3170.00 ft (KB) To 3242.00 ft (KB) (TVD)

Total Depth: 3242.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

Reference Elevations: 1766.00 ft (KB)

1758.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6666 Inside

Press@RunDepth: psig @ 3171.00 ft (KB)

Start Date: 2016.01.02

End Date:

2016.01.02

Start Time: 00:11:01

End Time:

08:30:54

Capacity: 8000.00 psig

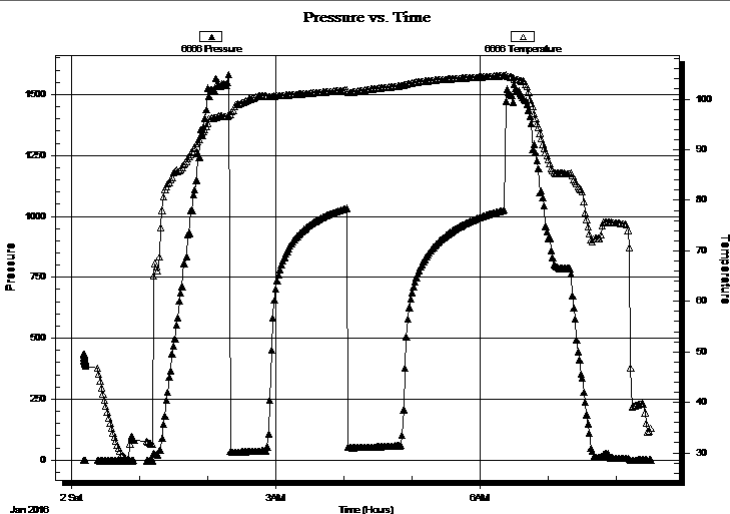
Last Calib.:

2016.01.02

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-30 Minutes-Fair blow built 1" from bottom of bucket
 ISIP-60 Minutes-No blow back
 FFP-60 Minutes-BOB in 30 minutes
 FSIP-90 Minutes-No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCM 10%oil 90%mud	0.84
120.00	GO 10%gas 90 %oil	1.68
0.00	120' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc
1700 N Waterfront Pkwy
Bldg 300 B
Wichita KS 67206
ATTN: Ken Leblanc

30-17s-9w Ellsworth,KS
Bushton #1-30
Job Ticket: 62976 **DST#: 2**
Test Start: 2016.01.02 @ 00:20:00

Tool Information

Drill Pipe:	Length: 3155.00 ft	Diameter: 3.80 inches	Volume: 44.26 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3170.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 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
Shut In Tool	5.00			3153.00	
Hydraulic tool	5.00			3158.00	
Safety Joint	2.00			3160.00	
Packer	5.00			3165.00	22.00 Bottom Of Top Packer
Packer	5.00			3170.00	
Recorder	1.00	6666	Inside	3171.00	
Recorder	1.00	6731	Outside	3172.00	
Perforations	3.00			3175.00	
Change Over Sub	0.75			3175.75	
Drill Pipe	62.50			3238.25	
Change Over Sub	0.75			3239.00	
Bullnose	3.00			3242.00	72.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc
1700 N Waterfront Pkw y
Bldg 300 B
Wichita KS 67206
ATTN: Ken Leblanc

30-17s-9w Ellsworth,KS
Bushton #1-30
Job Ticket: 62976 **DST#: 2**
Test Start: 2016.01.02 @ 00:20:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 44 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.79 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

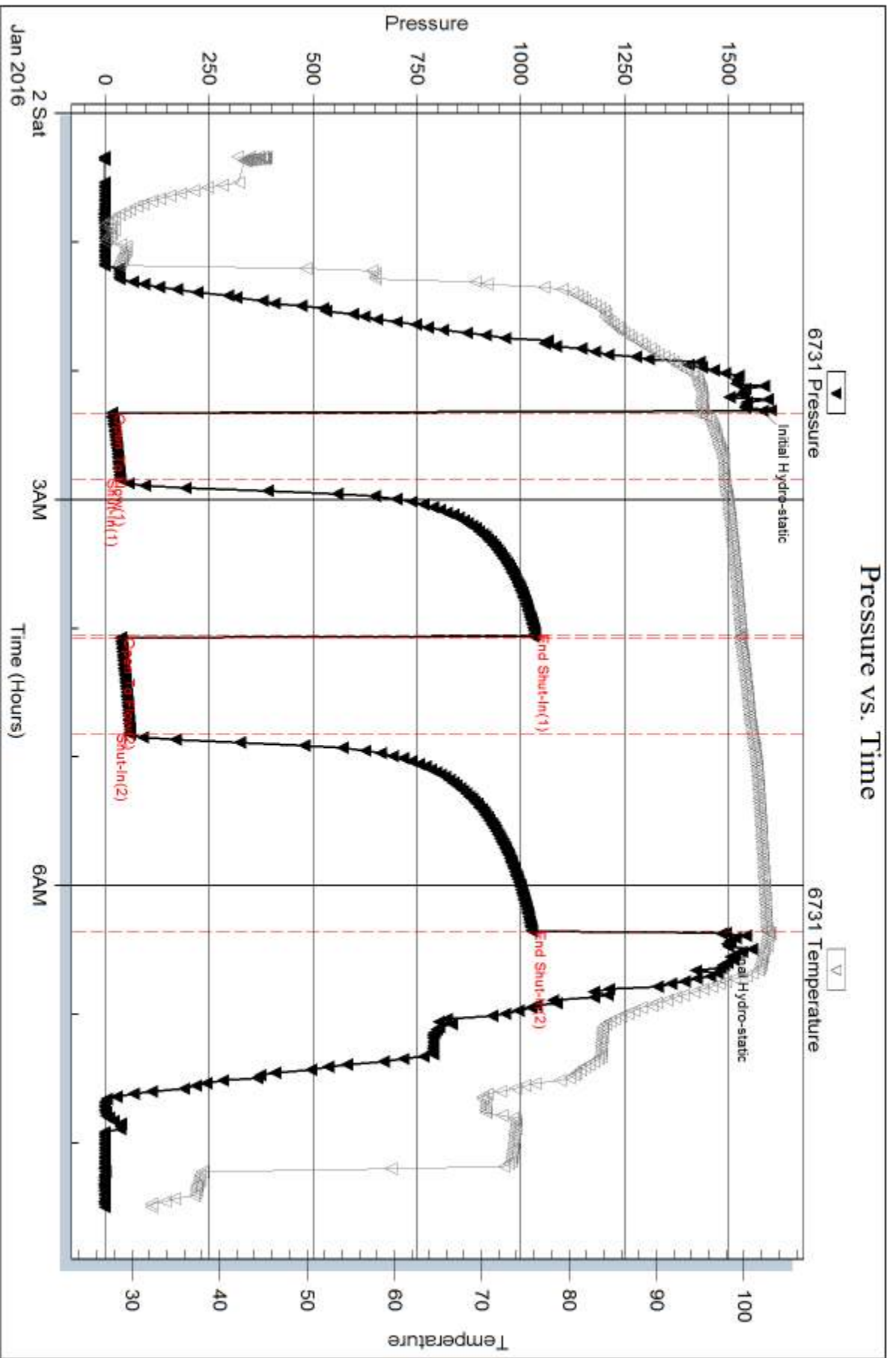
Length ft	Description	Volume bbl
60.00	SOCM 10%oil 90%mud	0.842
120.00	GO 10%gas 90 %oil	1.683
0.00	120' GIP	0.000

Total Length: 180.00 ft Total Volume: 2.525 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



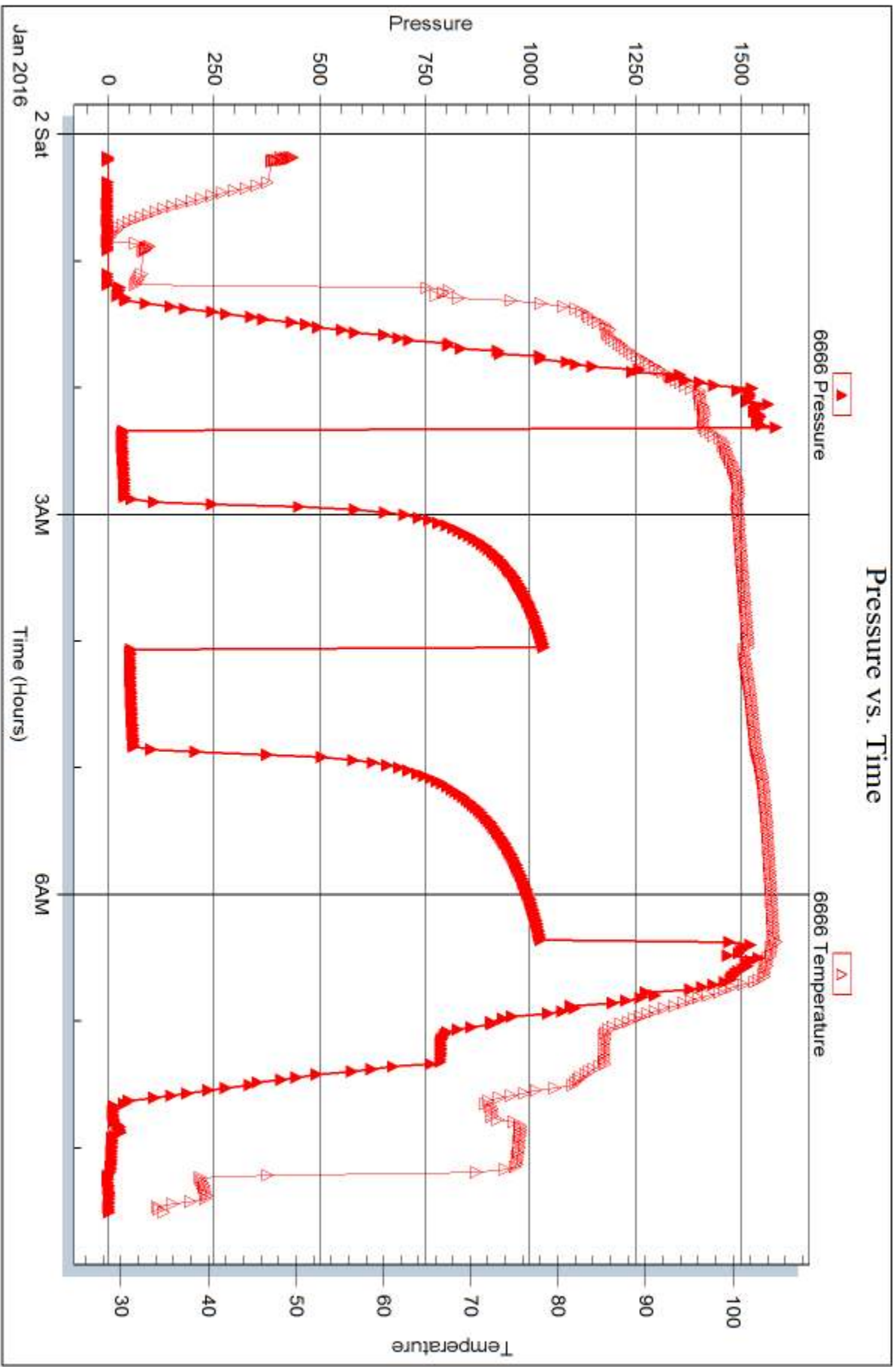
Serial #: 6666

Inside

CMX Inc

Bushton #1-30

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 62976

Printed: 2016.01.04 @ 08:50:25



DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Waterfront Pkwy Bldg 300 B Wichita
KS 67206

ATTN: Ken Leblanc

Bushton #1-30

30-17s-9w Ellsworth,KS

Start Date: 2016.01.02 @ 15:30:01

End Date: 2016.01.02 @ 22:43:31

Job Ticket #: 62977 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.01.04 @ 08:49:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX Inc

30-17s-9w Ellsworth, KS

1700 N Waterfront Pkwy Bldg 300 B Wichita KS 67206

Bushton #1-30

Job Ticket: 62977

DST#: 3

ATTN: Ken Leblanc

Test Start: 2016.01.02 @ 15:30:01

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:59:31

Time Test Ended: 22:43:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

Interval: 3237.00 ft (KB) To 3246.00 ft (KB) (TVD)

Reference Elevations: 1766.00 ft (KB)

Total Depth: 3246.00 ft (KB) (TVD)

1758.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6731 Outside

Press@RunDepth: 61.50 psig @ 3239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.01.02

End Date:

2016.01.02

Last Calib.:

2016.01.02

Start Time:

15:30:01

End Time:

22:43:31

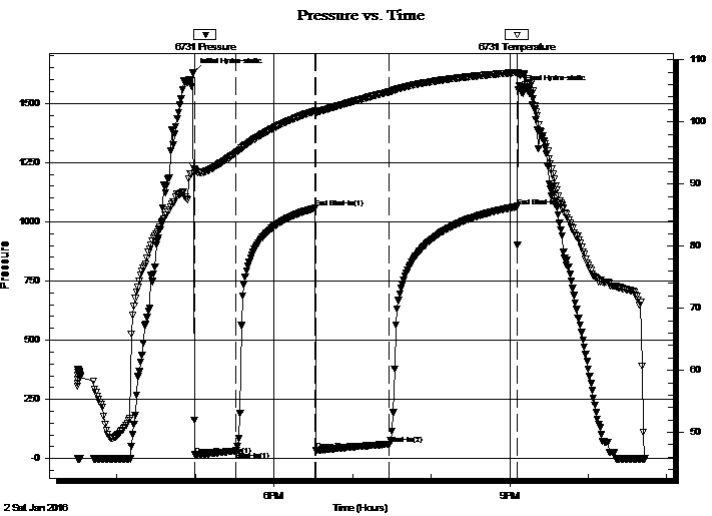
Time On Btm:

2016.01.02 @ 16:58:16

Time Off Btm:

2016.01.02 @ 21:06:31

TEST COMMENT: IFP-30 Minutes-BOBt in 22 minutes
 ISIP-60 Minutes-No blow back
 FFP-60 Minutes-BOB in 30 minutes
 FSIP-90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.86	92.91	Initial Hydro-static
2	15.74	92.27	Open To Flow (1)
33	31.19	95.00	Shut-In(1)
93	1056.94	101.74	End Shut-In(1)
94	33.58	101.56	Open To Flow (2)
150	61.50	104.82	Shut-In(2)
248	1064.55	107.95	End Shut-In(2)
249	1558.59	107.97	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
60.00	GMCO gas 10% 80%oil 10%Mud	0.84
75.00	CGO 10%gas 90%oil	1.05
0.00	180' GIP	0.00

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



TRILOBITE
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DRILL STEM TEST REPORT

CMX Inc

30-17s-9w Ellsworth,KS

1700 N Waterfront Pkwy Bldg 300 B Wichita KS
67206

Bushton #1-30

Job Ticket: 62977

DST#: 3

ATTN: Ken Leblanc

Test Start: 2016.01.02 @ 15:30:01

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:59:31

Time Test Ended: 22:43:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

Interval: **3237.00 ft (KB) To 3246.00 ft (KB) (TVD)**

Reference Elevations: 1766.00 ft (KB)

Total Depth: 3246.00 ft (KB) (TVD)

1758.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **6666** Inside

Press@RunDepth: psig @ 3238.00 ft (KB)

Start Date: 2016.01.02 End Date: 2016.01.02

Start Time: 15:30:01 End Time: 22:44:01

Capacity: 8000.00 psig

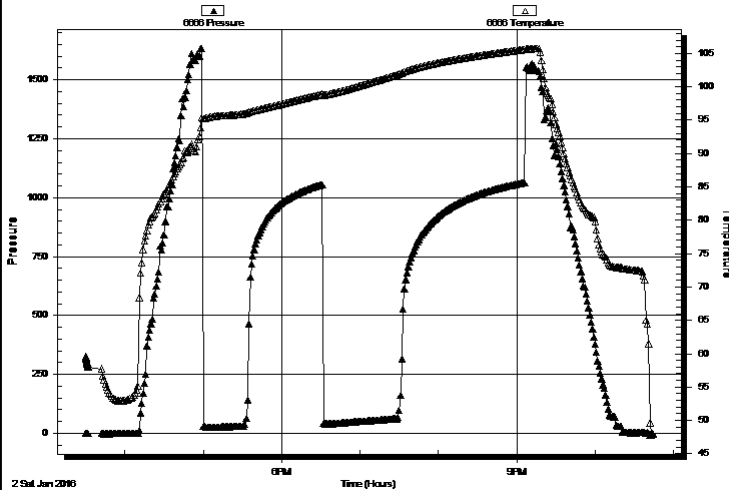
Last Calib.: 2016.01.02

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-30 Minutes-BOBt in 22 minutes
ISIP-60 Minutes-No blow back
FFP-60 Minutes-BOB in 30 minutes
FSIP-90 Minutes-No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
60.00	GMCO gas 10% 80%oil 10%Mud	0.84
75.00	CGO 10%gas 90%oil	1.05
0.00	180' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc

30-17s-9w Ellsworth,KS

1700 N Waterfront Pkwy Bldg 300 B Wichita KS
67206

Bushton #1-30

Job Ticket: 62977

DST#: 3

ATTN: Ken Leblanc

Test Start: 2016.01.02 @ 15:30:01

Tool Information

Drill Pipe:	Length: 3246.00 ft	Diameter: 3.80 inches	Volume: 45.53 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 45.53 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3237.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	31.00 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			3220.00	
Hydraulic tool	5.00			3225.00	
Safety Joint	2.00			3227.00	
Packer	5.00			3232.00	22.00 Bottom Of Top Packer
Packer	5.00			3237.00	
Recorder	1.00	6666	Inside	3238.00	
Recorder	1.00	6731	Outside	3239.00	
Perforations	4.00			3243.00	
Bullnose	3.00			3246.00	9.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc

30-17s-9w Ellsworth,KS

1700 N Waterfront Pkw y Bldg 300 B Wichita KS
67206

Bushton #1-30

Job Ticket: 62977

DST#: 3

ATTN: Ken Leblanc

Test Start: 2016.01.02 @ 15:30:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

44 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO gas 10% 80%oil 10%Mud	0.842
75.00	CGO 10%gas 90%oil	1.052
0.00	180' GIP	0.000

Total Length: 135.00 ft

Total Volume: 1.894 bbl

Num Fluid Samples: 0

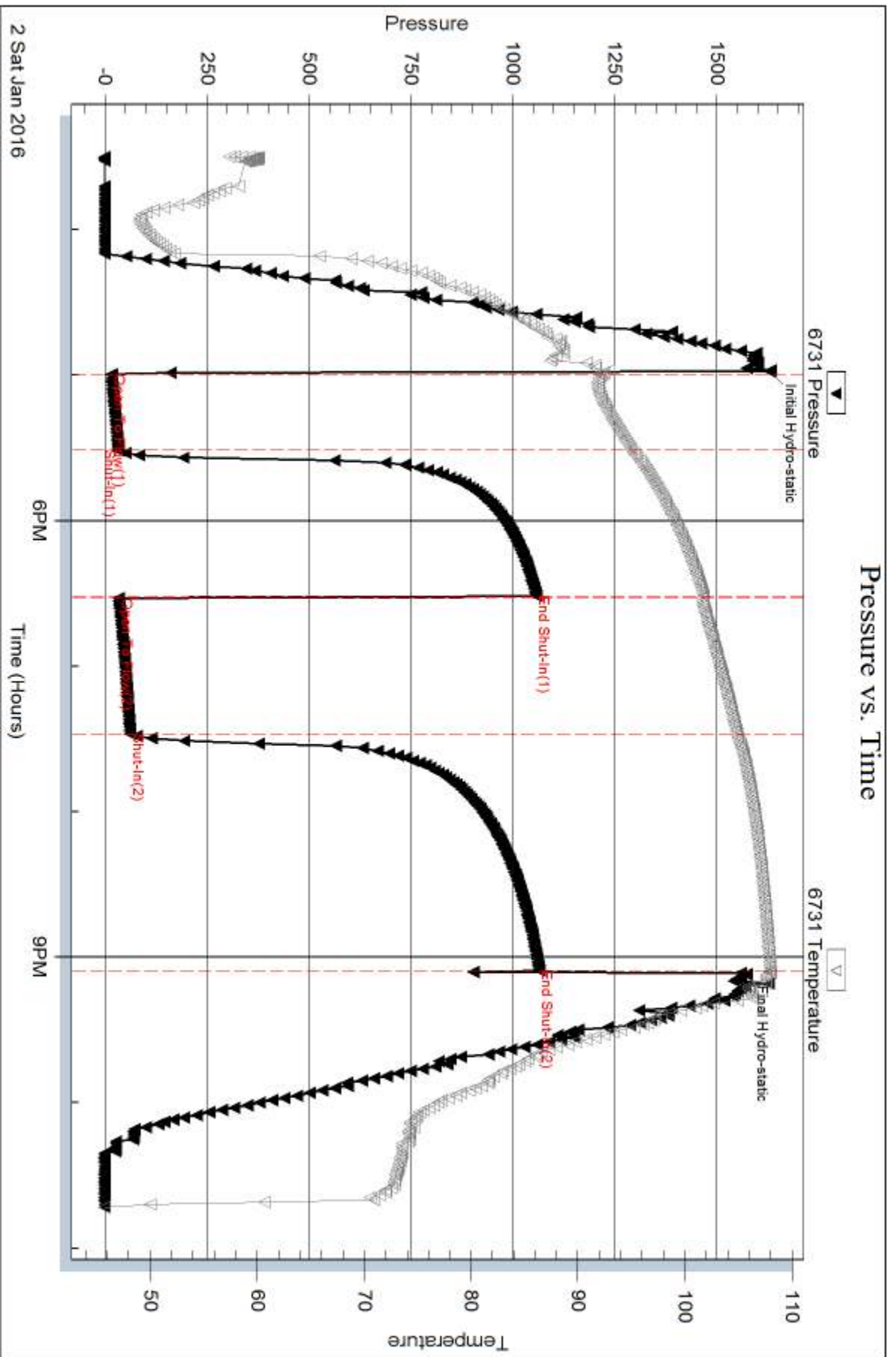
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



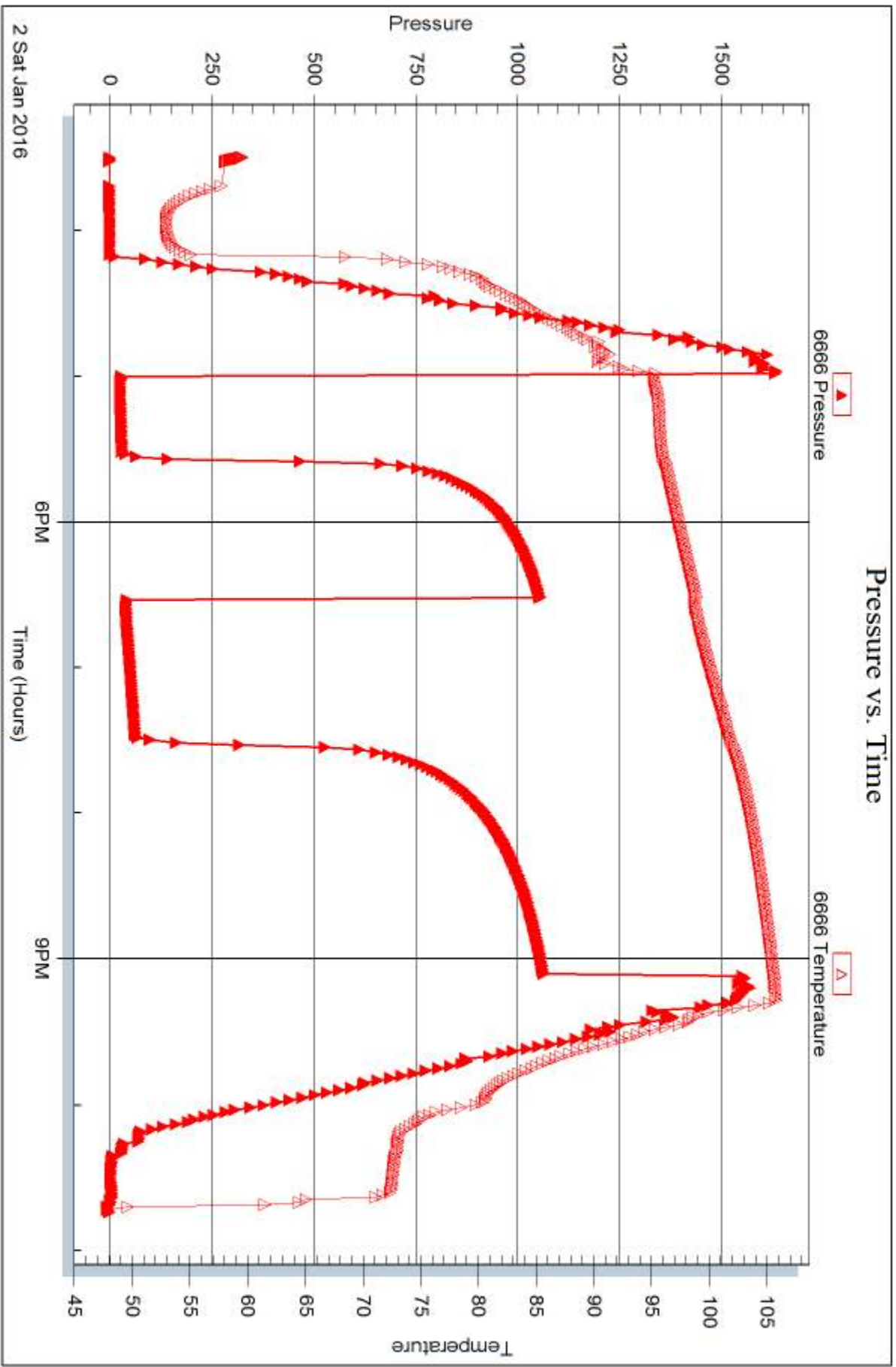
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Inside

CMX Inc

Bushlon #1-30

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 62977

Printed: 2016.01.04 @ 08:49:43



DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 N Waterfront Pkwy Bldg 300 B Wichita
KS 67206

ATTN: Ken Leblanc

Bushton #1-30

30-17s-9w Ellsworth,KS

Start Date: 2016.01.03 @ 04:20:00

End Date: 2016.01.03 @ 11:16:31

Job Ticket #: 62978 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.01.04 @ 08:48:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX Inc

30-17s-9w Ellsworth, KS

1700 N Waterfront Pkwy Bldg 300 B Wichita KS 67206

Bushton #1-30

Job Ticket: 62978

DST#: 4

ATTN: Ken Leblanc

Test Start: 2016.01.03 @ 04:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:00:31

Time Test Ended: 11:16:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 55

Interval: 3244.00 ft (KB) To 3251.00 ft (KB) (TVD)

Reference Elevations: 1766.00 ft (KB)

Total Depth: 3351.00 ft (KB) (TVD)

1758.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6731 Outside

Press@RunDepth: 403.82 psig @ 3246.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.01.03

End Date:

2016.01.03

Last Calib.:

2016.01.03

Start Time: 04:20:01

End Time:

11:16:31

Time On Btm:

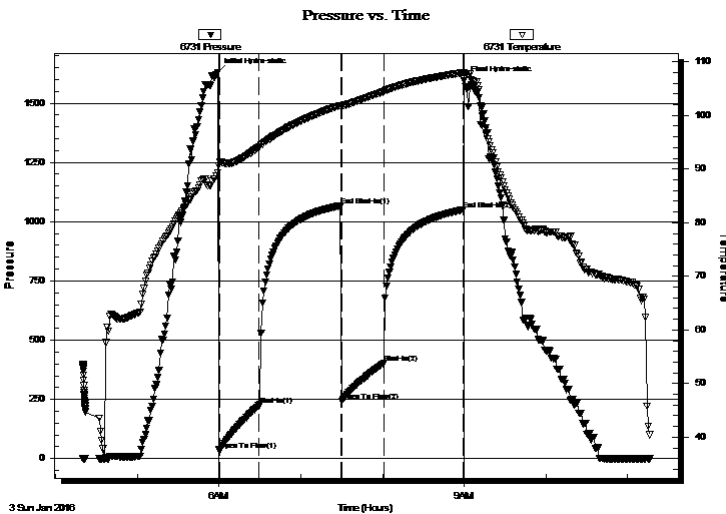
2016.01.03 @ 05:59:16

Time Off Btm:

2016.01.03 @ 09:00:01

TEST COMMENT: IFP-30 Minutes-BIOB in 2 minutes
 ISIP-60 Minutes-Very weak surface blow
 FFP-30 Minutes-BOB in 2 minutes
 FSIP-60 Minutes-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.23	89.31	Initial Hydro-static
2	36.87	91.35	Open To Flow (1)
31	225.17	94.11	Shut-In(1)
90	1067.31	101.87	End Shut-In(1)
91	241.47	101.73	Open To Flow (2)
122	403.82	104.47	Shut-In(2)
180	1050.09	107.95	End Shut-In(2)
181	1595.21	108.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1080.00	CGO 10%gas 90%oil	15.15
0.00	240' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc

30-17s-9w Ellsworth,KS

1700 N Waterfront Pkw y Bldg 300 B Wichita KS
67206

Bushton #1-30

Job Ticket: 62978

DST#: 4

ATTN: Ken Leblanc

Test Start: 2016.01.03 @ 04:20:00

Tool Information

Drill Pipe:	Length: 3257.00 ft	Diameter: 3.80 inches	Volume: 45.69 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 45.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3244.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	29.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Hydraulic tool	5.00			3232.00		
Safety Joint	2.00			3234.00		
Packer	5.00			3239.00	17.00	Bottom Of Top Packer
Packer	5.00			3244.00		
Recorder	1.00	6666	Inside	3245.00		
Recorder	1.00	6731	Outside	3246.00		
Shut In Tool	5.00			3251.00		
Perforations	2.00			3253.00		
Bullnose	3.00			3256.00	12.00	Bottom Packers & Anchor
Total Tool Length:	29.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc

30-17s-9w Ellsworth,KS

1700 N Waterfront Pkw y Bldg 300 B Wichita KS
67206

Bushton #1-30

Job Ticket: 62978

DST#: 4

ATTN: Ken Leblanc

Test Start: 2016.01.03 @ 04:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

44 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1080.00	CGO 10%gas 90%oil	15.150
0.00	240' GIP	0.000

Total Length: 1080.00 ft Total Volume: 15.150 bbl

Num Fluid Samples: 0

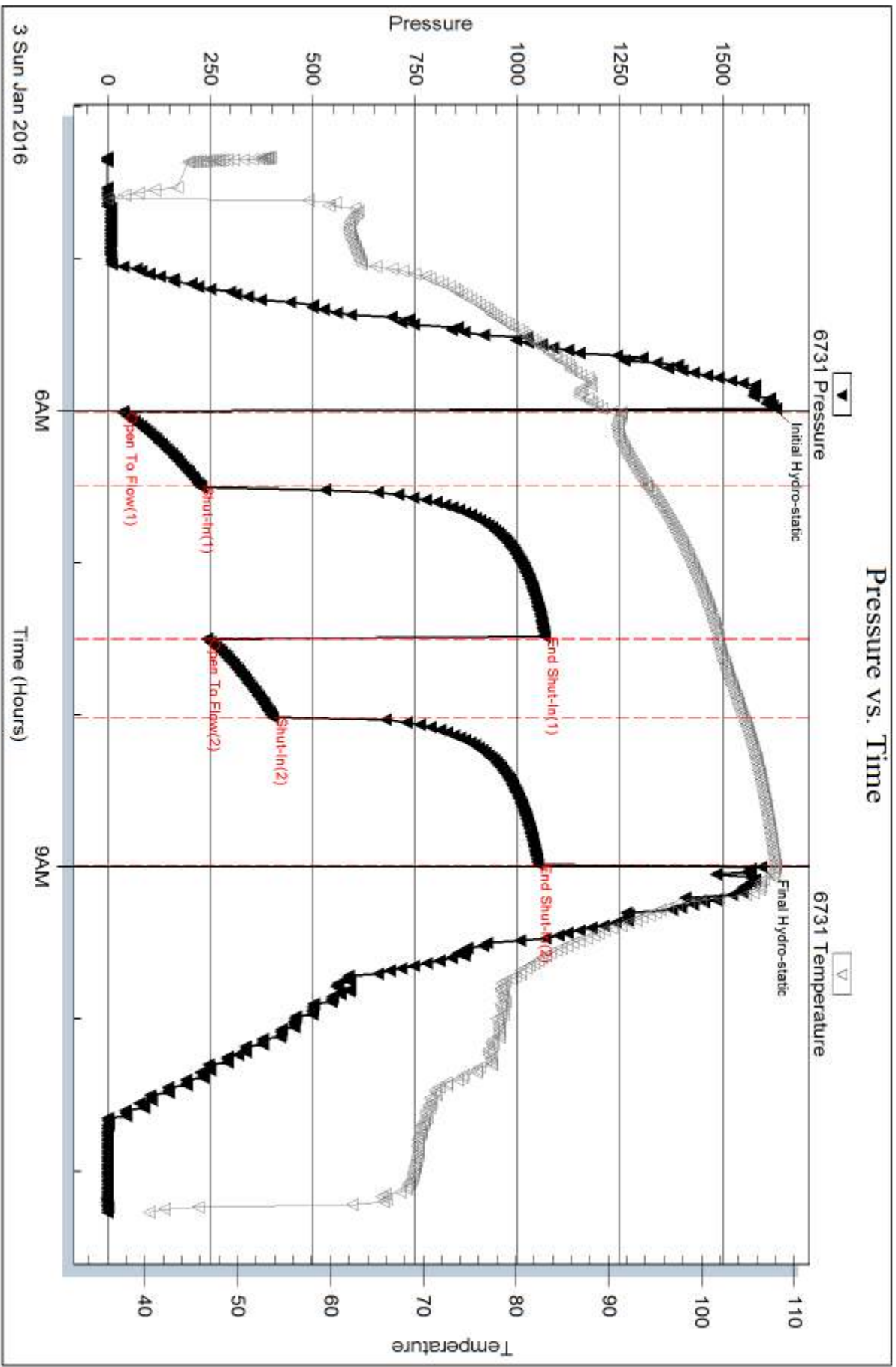
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



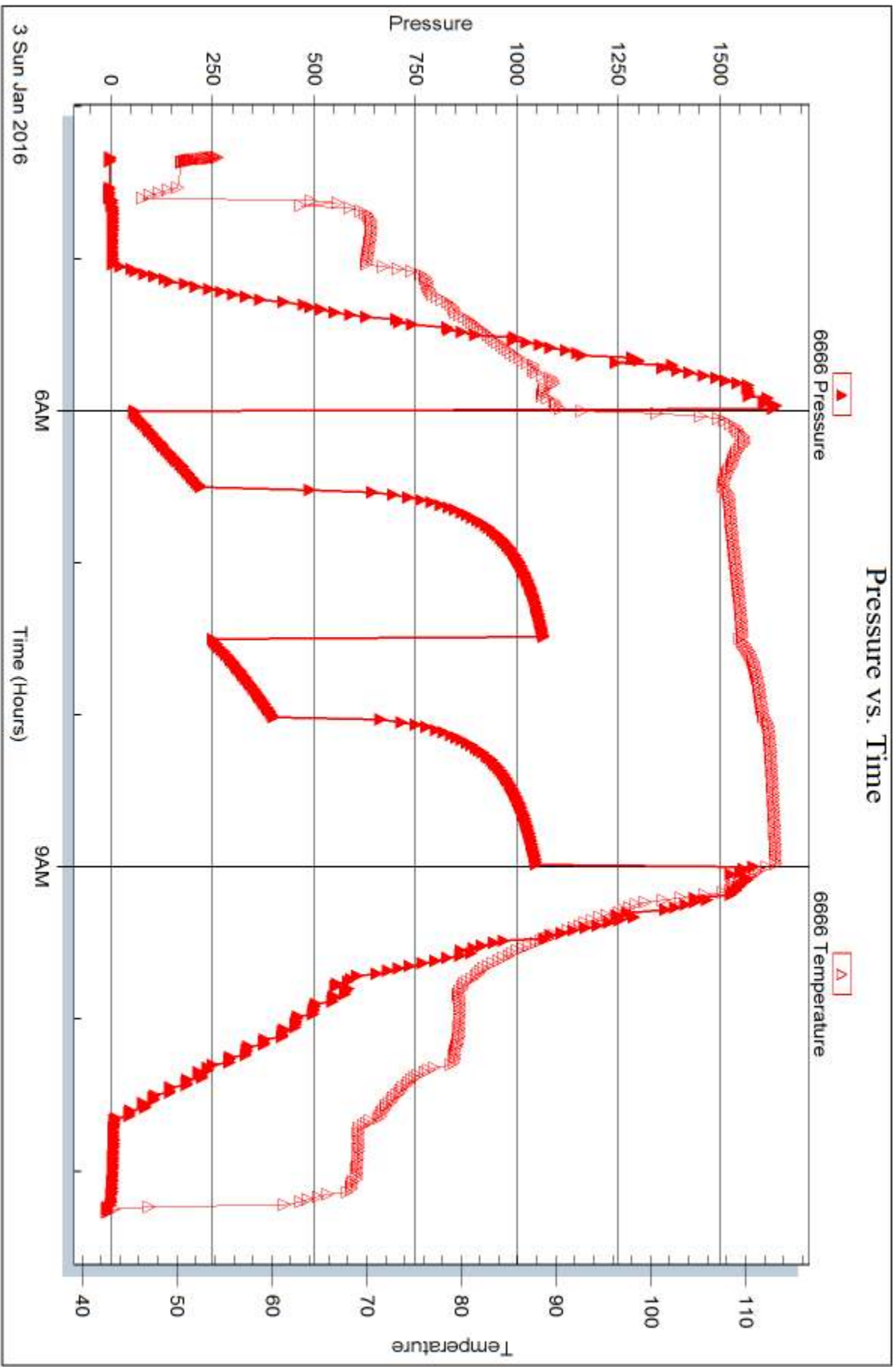
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Inside

CMX Inc

Bushton #1-30

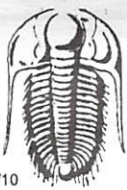
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 62978

Printed: 2016.01.04 @ 08:48:32



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62975

Well Name & No. ~~WATERBURY~~ #1-30 Test No. 1 Date 12-31-2015

Company CMX Inc Elevation 1758 KB 1766 GL

Address 1700 N Waterfront PKWY Bldg 300B Wichita KS 67206

Co. Rep / Geo. Ken Goffene Rig Duke Drilling Rig #2

Location: Sec. 30 Twp. 17 Rge. 9 Co. Ellsworth State KS

Interval Tested 2985-3000 Zone Tested AKC

Anchor Length 15 Drill Pipe Run Mud Wt. 92

Top Packer Depth 2985 Drill Collars Run Vis 46

Bottom Packer Depth 3000 Wt. Pipe Run WL 6.8

Total Depth 3010 Chlorides 4,800 ppm System LCM

Blow Description IFF - Fair Blow Built Bottom of Bucket / Fuel in 20 minutes.
 ISIP - NO Blow Back
 FFP - Fair Blow Built Bottom of Bucket in 27 minutes
 FSIP - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
45	mud water		85	15	
60	water		90	10	
	chlorides 30,000				

Rec Total _____ BHT _____ Gravity _____ API RW -3 @ -55 ° F Chlorides 8000 ppm

(A) Initial Hydrostatic 1486 Test 1050 T-On Location 5:30pm

(B) First Initial Flow 48 Jars _____ T-Started 7:20pm

(C) First Final Flow 61 Safety Joint 75 T-Open 9:10pm

(D) Initial Shut-In 962 Circ Sub _____ T-Pulled 12:10am

(E) Second Initial Flow 76 Hourly Standby _____ T-Out _____

(F) Second Final Flow 62 Mileage 70 RT Great Bend 70 Comments _____

(G) Final Shut-In 912 Sampler _____

(H) Final Hydrostatic 1414 Straddle 600 _____

Initial Open 30 Shale Packer _____

Initial Shut-In 60 Extra Packer _____

Final Flow 30 Extra Recorder _____

Final Shut-In 60 Day Standby _____

Accessibility _____

Sub Total 1795 Ruined Shale Packer _____

Ruined Packer _____

Extra Copies _____

Sub Total 0

Total 1795

MP/DST Disc't _____

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO.

62976

Well Name & No. Bushlon #1-30 Test No. 2 Date 1-2-2016
 Company CMX Inc Elevation 1758 KB 1766 GL
 Address 1700N waterfront PKWY Bldg 300B Wichita KS 67206
 Co. Rep / Geo. Ken Lablanc Rig Dike Dilling Rpt # 2
 Location: Sec. 30 Twp. 17 Rge. 9 Co. Ellsworth State KS

Interval Tested 3170-3242 Zone Tested Airback
 Anchor Length 72 Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 3165 Drill Collars Run _____ Vis 51
 Bottom Packer Depth 3170 Wt. Pipe Run _____ WL 6.9
 Total Depth 3242 Chlorides 4.800 ppm System LCM _____

Blow Description IFP - Fair Blow Built In from Bottom Bucket
ISIP - NO Blow Back
FFP - Fair Blow Built Bottom Bucket in 30 minutes
FSIP - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>mud</u>	<u>10</u>	<u>90</u>	<u>0</u>	<u>0</u>
<u>180</u>	<u>clean Gas Out</u>	<u>10</u>	<u>90</u>	<u>0</u>	<u>0</u>
<u>180</u>	<u>Gas in pipe</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
____	____	____	____	____	____
____	____	____	____	____	____

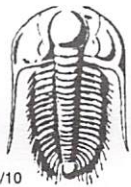
Rec Total _____ BHT 44 Gravity 44 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1582 Test 1050 T-On Location 11:20pm
 (B) First Initial Flow 16 Jars _____ T-Started 12:20am
 (C) First Final Flow 35 Safety Joint 75 T-Open 2:05 am
 (D) Initial Shut-In 1035 Circ Sub _____ T-Pulled 6:05 AM
 (E) Second Initial Flow 38 Hourly Standby _____ T-Out 8:30am
 (F) Second Final Flow 59 Mileage 70 RT Grand Bend 70 Comments _____
 (G) Final Shut-In 1027 Sampler _____
 (H) Final Hydrostatic 1483 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1195
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1195

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62977

Well Name & No. Bishton #1-30 Test No. 3 Date 1-2-2016
 Company CMX Inc Elevation _____ KB _____ GL _____
 Address 1700 N WATERFRONT PKWY Bldg 300B Wichita KS 67206
 Co. Rep / Geo. Ken Latture Rig Duke Dalby Rig #2
 Location: Sec. 30 Twp. 17 Rge. 9 Co. Ellsworth State KS

Interval Tested 3237-3246 Zone Tested Arbuckle
 Anchor Length 9 Drill Pipe Run _____ Mud Wt. 9.6
 Top Packer Depth 3232 Drill Collars Run _____ Vis 62
 Bottom Packer Depth 3237 Wt. Pipe Run _____ WL 6.6
 Total Depth 3246 Chlorides 4800 ppm System LCM _____

Blow Description IFP- Fair Blow Built Bottom Bucket in 22 minutes
ISIP- No Blow Back
IFP- Fair Blow Built Bottom Bucket in 30 minutes
FSIP- No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>60 m</u>	<u>10</u>	<u>80</u>		
<u>60</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>15</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>180</u>	<u>Gas in pipe</u>				
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT _____ Gravity 84 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1628 Test 1050 T-On Location 2:48 pm
 (B) First Initial Flow 15 Jars _____ T-Started 3:30
 (C) First Final Flow 31 Safety Joint 75 T-Open 4:48
 (D) Initial Shut-In 1056 Circ Sub _____ T-Pulled 8:48 pm
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 61 Mileage 70 RT Great Road 70 Comments _____
 (G) Final Shut-In 1064 Sampler _____
 (H) Final Hydrostatic 1558 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1195
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1195

Approved By _____ Our Representative _____
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62978

Well Name & No. Bushton #1-30 Test No. 4 Date 1-3-2016
 Company CMX Inc Elevation 1758 KB 1766 GL
 Address 1700 N Waterfront PKWY Bldg 300B Wichita KS 67206
 Co. Rep / Geo. Ken Hablanc Rig Duke Drilling Rig #2
 Location: Sec. 30 Twp. 17 Rge. 9 Co. Ellsworth State KS

Interval Tested 3244-3251 Zone Tested Arbuckle
 Anchor Length 7 Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 3239 Drill Collars Run _____ Vis 6.2
 Bottom Packer Depth 3244 Wt. Pipe Run _____ WL 6.6
 Total Depth 3251 Chlorides 4,800 ppm System LCM _____

Blow Description IFP - Bottom of Bucket in 2 minutes
ISIP - Very Weak Surface
FFP - Strong Blow Bottom of Bucket in 2 minutes
FSIP - NO Draw Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1080</u>	<u>Gas oil</u>	<u>10</u>	<u>90</u>		
<u>240</u>	<u>Gas in pipe</u>				

Rec Total _____ BHT 107 Gravity 44 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1629 Test 1050 T-On Location 3:30 AM
 (B) First Initial Flow 36 Jars _____ T-Started 4:20
 (C) First Final Flow 225 Safety Joint 75 T-Open 5:54
 (D) Initial Shut-In 1067 Circ Sub _____ T-Pulled 8:54
 (E) Second Initial Flow 241 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 403 Mileage 70 RT Grad Band 70 Comments _____
 (G) Final Shut-In 1050 Sampler _____
 (H) Final Hydrostatic 1595 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1195
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1195

Approved By _____ Our Representative [Signature]

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