



DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209

ATTN: Ken LaBlanc

Ames-Robl #1-19

19-19s-10w Rice,KS

Start Date: 2015.04.27 @ 23:19:00

End Date: 2015.04.28 @ 07:21:38

Job Ticket #: 61990 DST #: 1

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

Printed: 2015.04.30 @ 14:17:10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

CMX, Inc.
1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209
ATTN: Ken LaBlanc

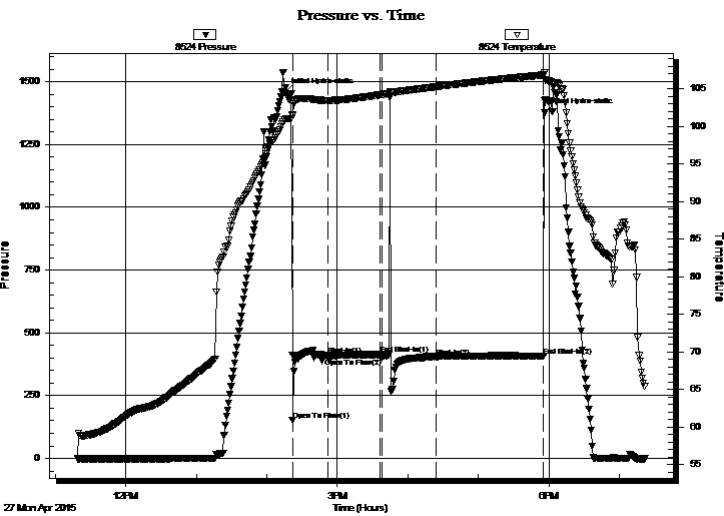
19-19s-10w Rice, KS
Ames-Robl #1-19
Job Ticket: 61990 **DST#: 1**
Test Start: 2015.04.27 @ 23:19:00

GENERAL INFORMATION:

Formation: **LKC "B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:21:47
 Time Test Ended: 07:21:38
 Interval: **3035.00 ft (KB) To 3060.00 ft (KB) (TVD)**
 Total Depth: 3060.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 56
 Reference Elevations: 1800.00 ft (KB)
 1787.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8524 Inside
 Press@RunDepth: 404.20 psig @ 3056.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.04.27 End Date: 2015.04.27 Last Calib.: 2015.04.27
 Start Time: 11:19:01 End Time: 19:21:38 Time On Btm: 2015.04.27 @ 14:14:57
 Time Off Btm: 2015.04.27 @ 17:56:22

TEST COMMENT: IFP 30 Minutes. Weak blow built to 1"
 ISI 45 Minutes. No blow back.
 FFP 45 Minutes. No blow, flushed tool and gained weak surface blow.
 FSI 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1457.01	100.82	Initial Hydro-static
7	152.22	101.59	Open To Flow (1)
37	411.00	103.43	Shut-In(1)
82	413.63	104.20	End Shut-In(1)
84	399.76	104.23	Open To Flow (2)
129	404.20	105.26	Shut-In(2)
221	408.26	106.82	End Shut-In(2)
222	1377.04	107.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	100% Mud	0.62

Gas Rates

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



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CMX, Inc.
1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209
ATTN: Ken LaBlanc

19-19s-10w Rice, KS
Ames-Robl #1-19
Job Ticket: 61990 **DST#: 1**
Test Start: 2015.04.27 @ 23:19:00

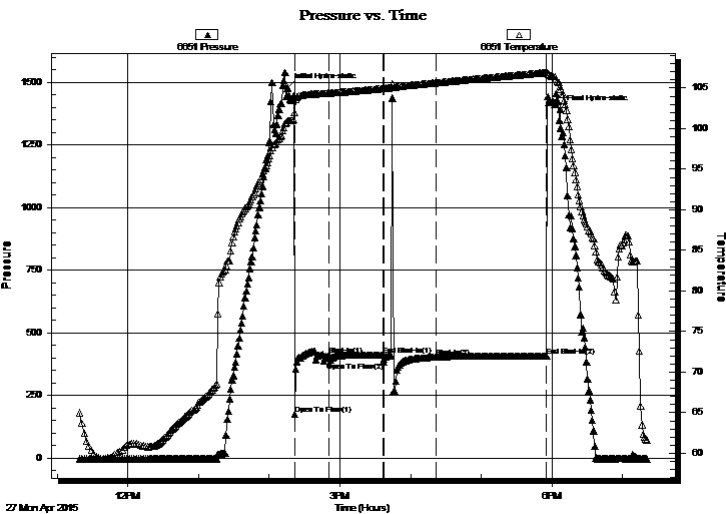
GENERAL INFORMATION:

Formation: **LKC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:21:47
Time Test Ended: 07:21:38
Interval: **3035.00 ft (KB) To 3060.00 ft (KB) (TVD)**
Total Depth: 3060.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56
Reference Elevations: 1800.00 ft (KB)
1787.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6651 Outside

Press@RunDepth: 406.75 psig @ 3057.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.04.27 End Date: 2015.04.27 Last Calib.: 2015.04.27
Start Time: 11:19:00 End Time: 19:21:00 Time On Btm: 2015.04.27 @ 14:15:30
Time Off Btm: 2015.04.27 @ 18:07:00

TEST COMMENT: IFP 30 Minutes. Weak blow built to 1"
ISI 45 Minutes. No blow back.
FFP 45 Minutes. No blow, flushed tool and gained weak surface blow.
FSI 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1476.77	101.01	Initial Hydro-static
6	177.07	102.01	Open To Flow (1)
36	409.88	104.39	Shut-In(1)
81	412.29	104.95	End Shut-In(1)
82	384.37	104.94	Open To Flow (2)
126	405.05	105.65	Shut-In(2)
220	406.75	106.91	End Shut-In(2)
232	1392.65	105.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	100% Mud	0.62

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX, Inc.
1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209
ATTN: Ken LaBlanc

19-19s-10w Rice, KS
Ames-Robl #1-19
Job Ticket: 61990 **DST#: 1**
Test Start: 2015.04.27 @ 23:19:00

Tool Information

Drill Pipe:	Length: 2857.00 ft	Diameter: 3.80 inches	Volume: 40.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 184.58 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 40.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.58 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3035.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut-In Tool	5.00			3018.00	
Hydraulic tool	5.00			3023.00	
Safety Joint	2.00			3025.00	
Top Packer	5.00			3030.00	
Packer	5.00			3035.00	22.00 Bottom Of Top Packer
Anchor	20.00			3055.00	
Recorder	1.00	8524	Inside	3056.00	
Recorder	1.00	6651	Outside	3057.00	
Bull Plug	3.00			3060.00	25.00 Anchor Tool
Total Tool Length:	47.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

CMX, Inc.

19-19s-10w Rice,KS

1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209
ATTN: Ken LaBlanc

Ames-Robl #1-19

Job Ticket: 61990

DST#: 1

Test Start: 2015.04.27 @ 23:19:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 8.95 in³

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	100% Mud	0.620

Total Length: 126.00 ft Total Volume: 0.620 bbl

Num Fluid Samples: 0

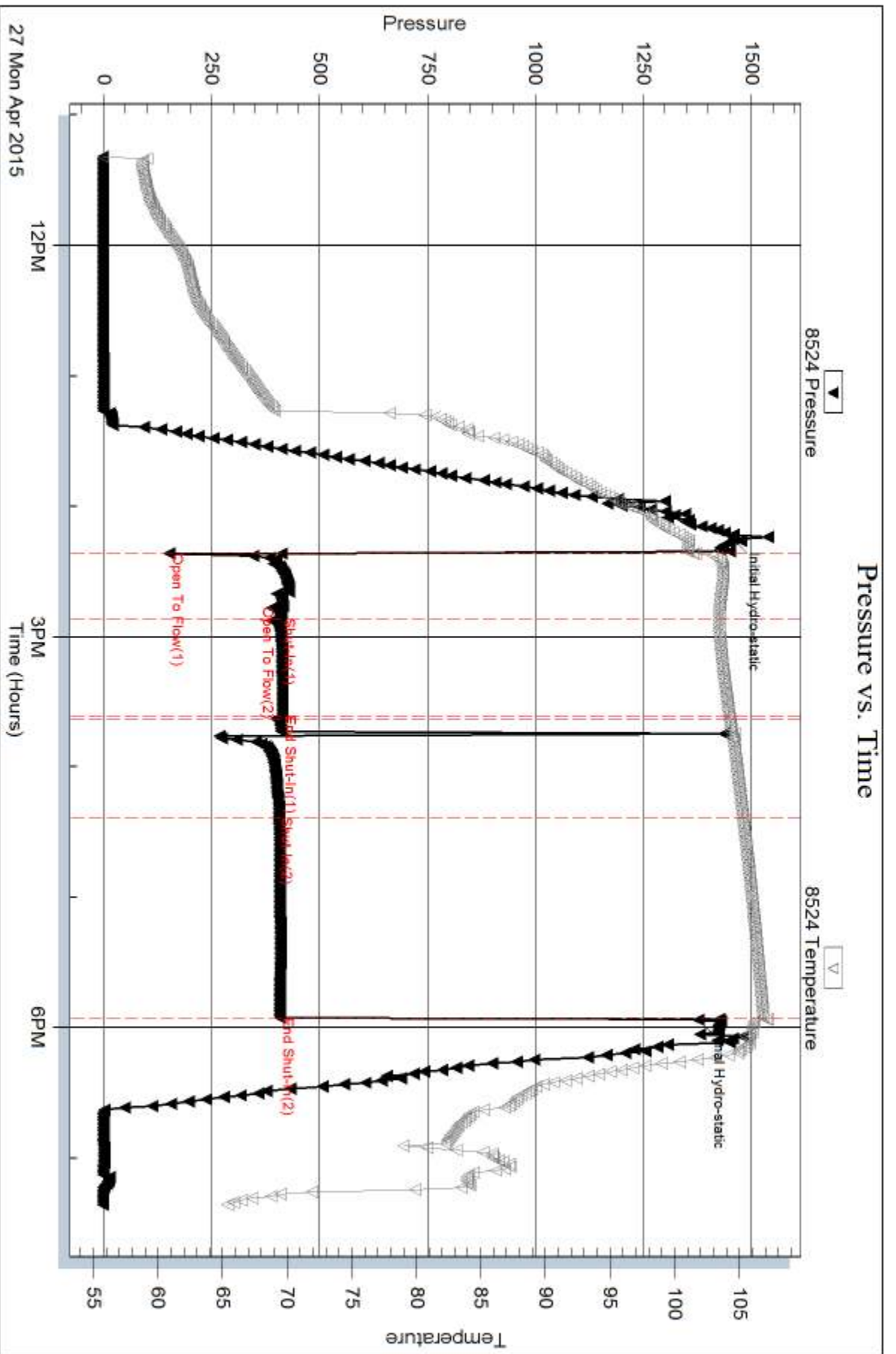
Num Gas Bombs: 0

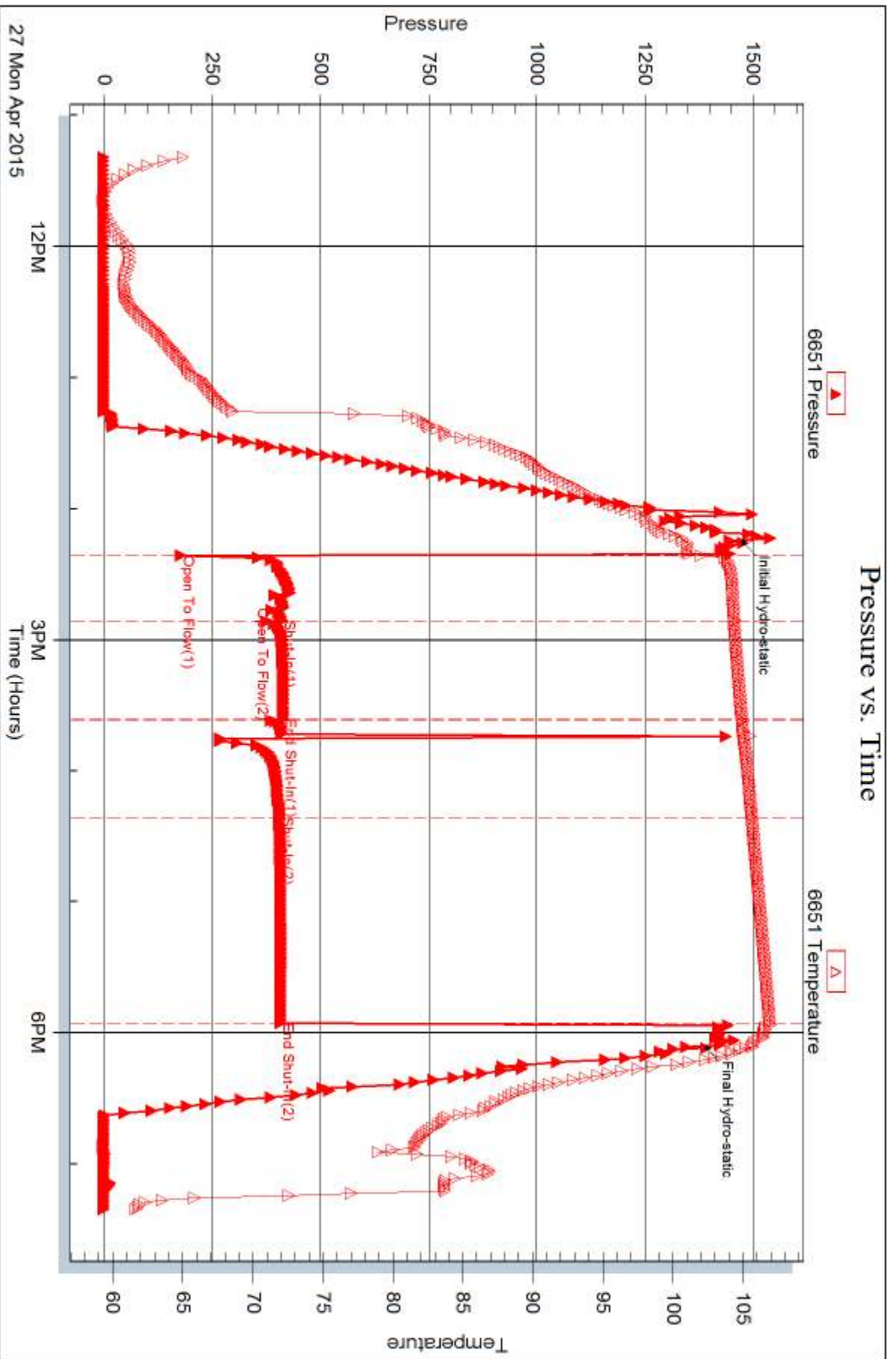
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209

ATTN: Ken LaBlanc

Ames-Robl #1-19

19-19s-10w Rice,KS

Start Date: 2015.04.29 @ 17:30:00

End Date: 2015.04.30 @ 01:08:24

Job Ticket #: 61991 DST #: 2

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

Printed: 2015.04.30 @ 14:16:45



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX, Inc.
 1700 N. Waterfront BLVD
 BLDG 300B
 Wichita KS, 67209
 ATTN: Ken LaBlanc

19-19s-10w Rice, KS
Ames-Robl #1-19
 Job Ticket: 61991 **DST#: 2**
 Test Start: 2015.04.29 @ 17:30:00

GENERAL INFORMATION:

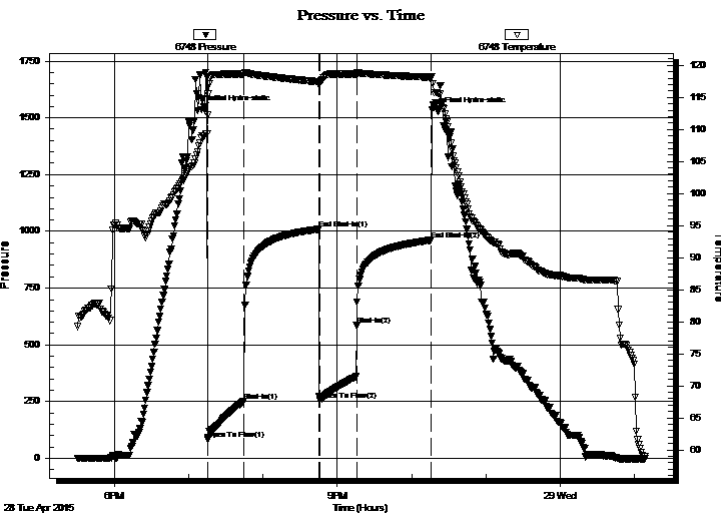
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:15:01
 Tester: Shane Konzem
 Time Test Ended: 01:08:24
 Unit No: 56
 Interval: **3313.00 ft (KB) To 3335.00 ft (KB) (TVD)**
 Reference Elevations: 1800.00 ft (KB)
 Total Depth: 3335.00 ft (KB) (TVD)
 1787.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 13.00 ft

Serial #: 6748

Inside

Press@RunDepth: 585.64 psig @ 3331.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.04.28 End Date: 2015.04.29 Last Calib.: 2015.04.29
 Start Time: 17:30:01 End Time: 01:08:25 Time On Btm: 2015.04.28 @ 19:09:53
 Time Off Btm: 2015.04.28 @ 22:21:07

TEST COMMENT: IFP 30 Minutes. BOB in 2 minutes.
 ISI 60 Minutes. Blow back built to 7 inches into water.
 FFP 30 Minutes. BOB in 3 minutes and 30 seconds.
 FSI 60 Minutes. Blow back built to 4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1536.70	108.70	Initial Hydro-static
6	82.61	112.21	Open To Flow (1)
35	252.92	118.65	Shut-In(1)
95	1009.81	117.44	End Shut-In(1)
97	256.82	117.35	Open To Flow (2)
126	585.64	118.74	Shut-In(2)
186	961.71	118.14	End Shut-In(2)
192	1528.54	115.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	914 feet Gas in pipe	0.00
693.00	100% Clean Gassy Oil	8.04
220.00	OCMW 10% oil, 10% mud, 80% Water	3.09

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

CMX, Inc.
 1700 N. Waterfront BLVD
 BLDG 300B
 Wichita KS, 67209
 ATTN: Ken LaBlanc

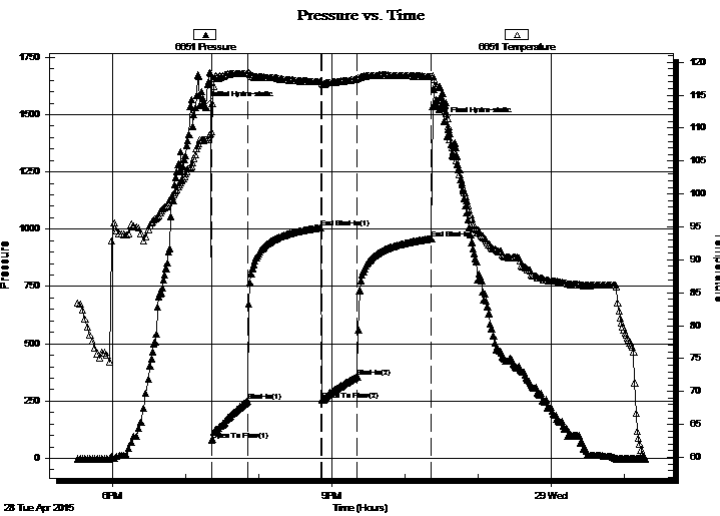
19-19s-10w Rice, KS
Ames-Robl #1-19
 Job Ticket: 61991 **DST#: 2**
 Test Start: 2015.04.29 @ 17:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:15:01
 Time Test Ended: 01:08:24
 Interval: **3313.00 ft (KB) To 3335.00 ft (KB) (TVD)**
 Total Depth: 3335.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 56
 Reference Elevations: 1800.00 ft (KB)
 1787.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6651 Outside
 Press@RunDepth: 959.08 psig @ 3332.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.04.28 End Date: 2015.04.29 Last Calib.: 2015.04.29
 Start Time: 17:31:00 End Time: 01:16:30 Time On Btm: 2015.04.28 @ 19:15:30
 Time Off Btm: 2015.04.28 @ 22:32:00

TEST COMMENT: IFP 30 Minutes. BOB in 2 minutes.
 ISI 60 Minutes. Blow back built to 7 inches into water.
 FFP 30 Minutes. BOB in 3 minutes and 30 seconds.
 FSI 60 Minutes. Blow back built to 4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1538.30	108.19	Initial Hydro-static
6	78.35	109.49	Open To Flow (1)
35	250.15	118.31	Shut-In(1)
95	1007.14	117.01	End Shut-In(1)
96	254.12	116.70	Open To Flow (2)
125	355.91	117.49	Shut-In(2)
186	959.08	117.80	End Shut-In(2)
197	1471.08	113.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	914 feet Gas in pipe	0.00
693.00	100% Clean Gassy Oil	8.04
220.00	OCMW 10% oil, 10% mud, 80% Water	3.09

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX, Inc.
1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209
ATTN: Ken LaBlanc

19-19s-10w Rice, KS
Ames-Robl #1-19
Job Ticket: 61991 **DST#: 2**
Test Start: 2015.04.29 @ 17:30:00

Tool Information

Drill Pipe:	Length: 3111.00 ft	Diameter: 3.80 inches	Volume: 43.64 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 184.58 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 44.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.58 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3313.00 ft			Final 58000.00 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: H2S exposure on this test.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3296.00	
Hydraulic tool	5.00			3301.00	
Safety Joint	2.00			3303.00	
Top Packer	5.00			3308.00	
Packer	5.00			3313.00	22.00 Bottom Of Top Packer
Anchor	17.00			3330.00	
Recorder	1.00	6748	Inside	3331.00	
Recorder	1.00	6651	Outside	3332.00	
Bull Plug	3.00			3335.00	22.00 Anchor Tool
Total Tool Length:	44.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

CMX, Inc.

19-19s-10w Rice,KS

1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209
ATTN: Ken LaBlanc

Ames-Robl #1-19

Job Ticket: 61991

DST#: 2

Test Start: 2015.04.29 @ 17:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 9.96 in³
Resistivity: ohm.m
Salinity: 4800.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 40 deg API
Water Salinity: 31000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	914 feet Gas in pipe	0.000
693.00	100% Clean Gassy Oil	8.040
220.00	OCMW 10% oil, 10% mud, 80% Water	3.086

Total Length: 913.00 ft Total Volume: 11.126 bbl

Num Fluid Samples: 0

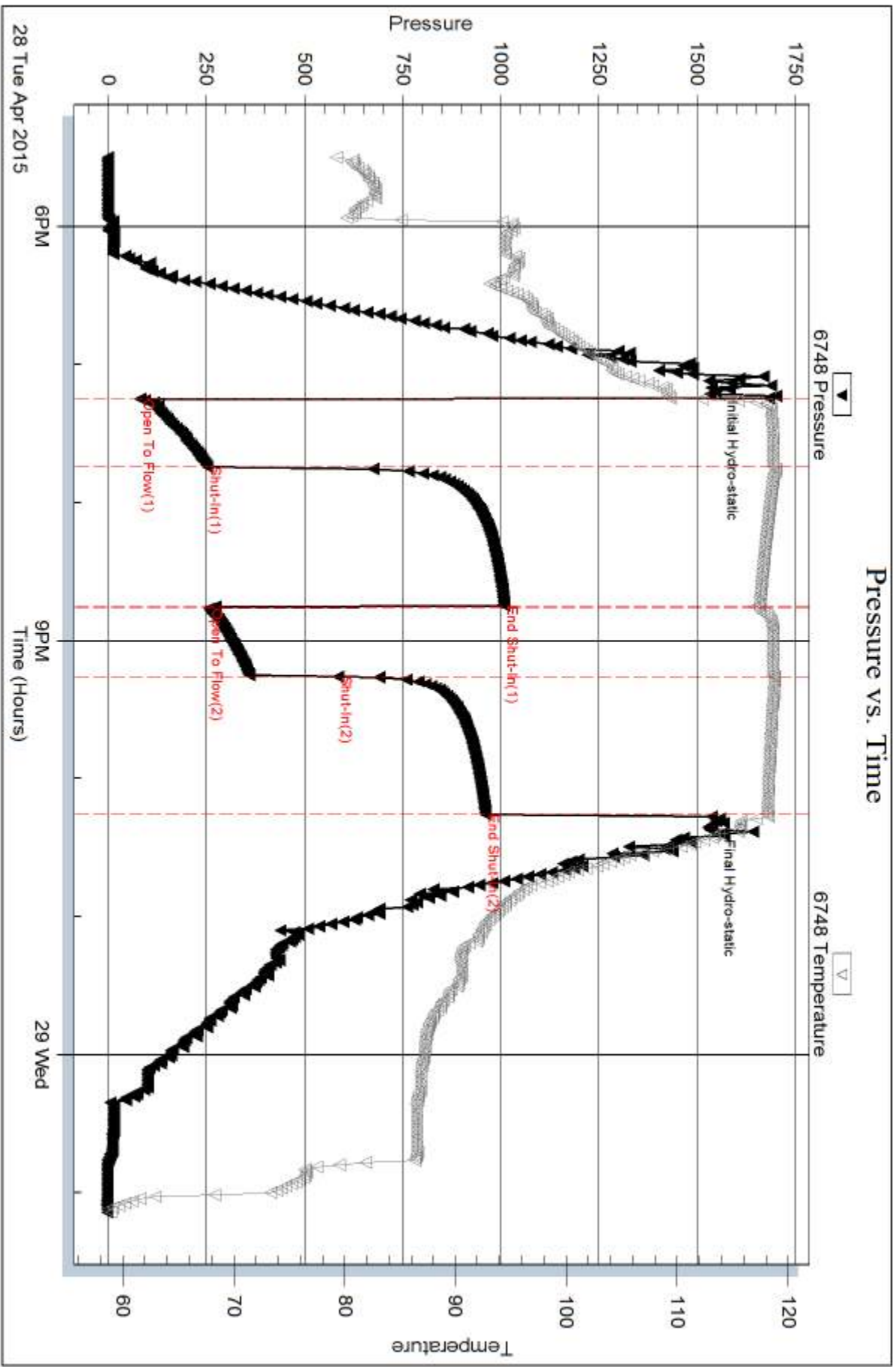
Num Gas Bombs: 0

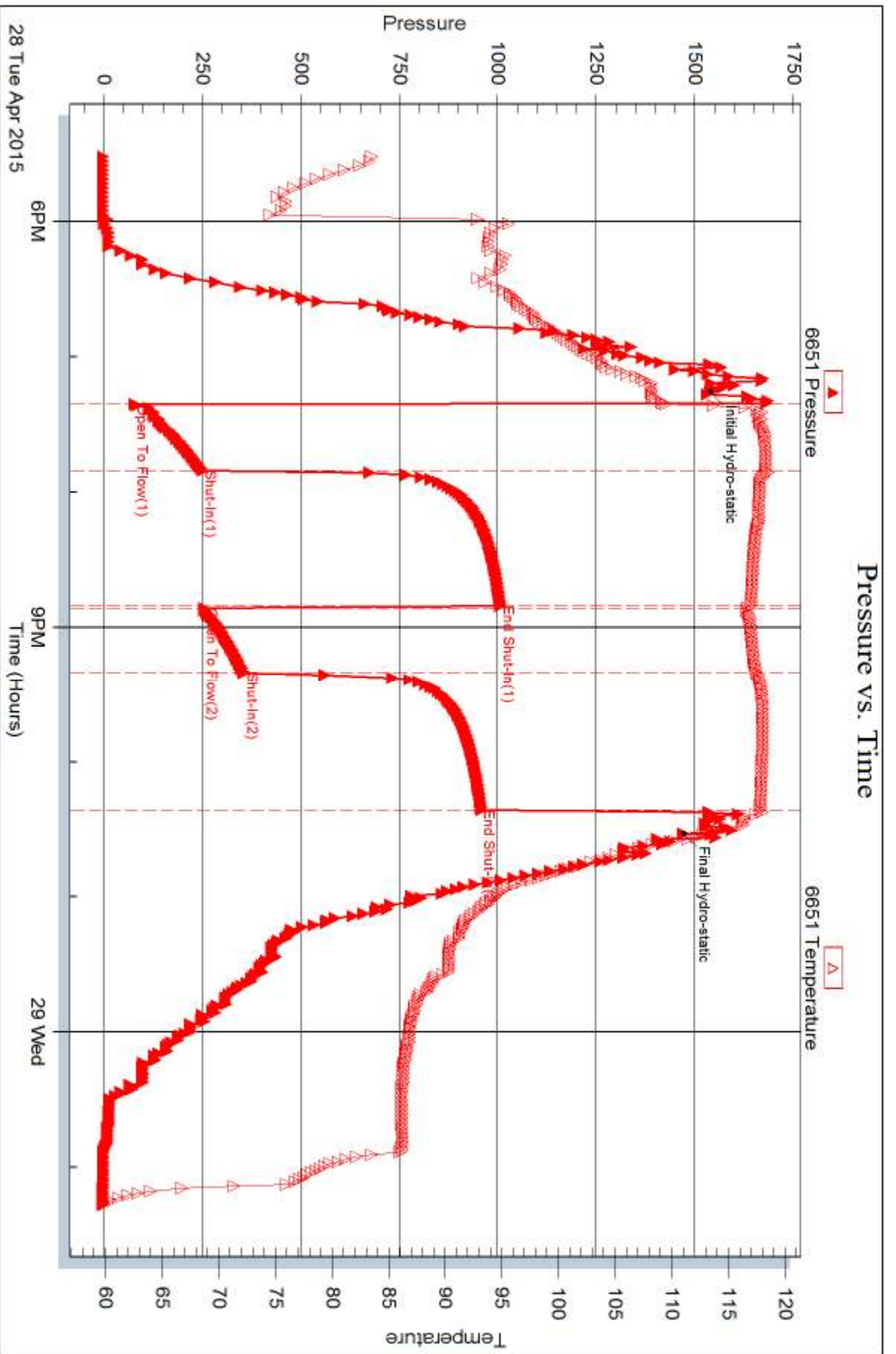
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rW 22 at 50







DRILL STEM TEST REPORT

Prepared For: **CMX, Inc.**

1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209

ATTN: Ken LaBlanc

Ames-Robl #1-19

19-19s-10w Rice,KS

Start Date: 2015.04.29 @ 20:00:00

End Date: 2015.04.30 @ 03:16:00

Job Ticket #: 61992 DST #: 3

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

Printed: 2015.04.30 @ 14:16:04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

CMX, Inc.
 1700 N. Waterfront BLVD
 BLDG 300B
 Wichita KS, 67209
 ATTN: Ken LaBlanc

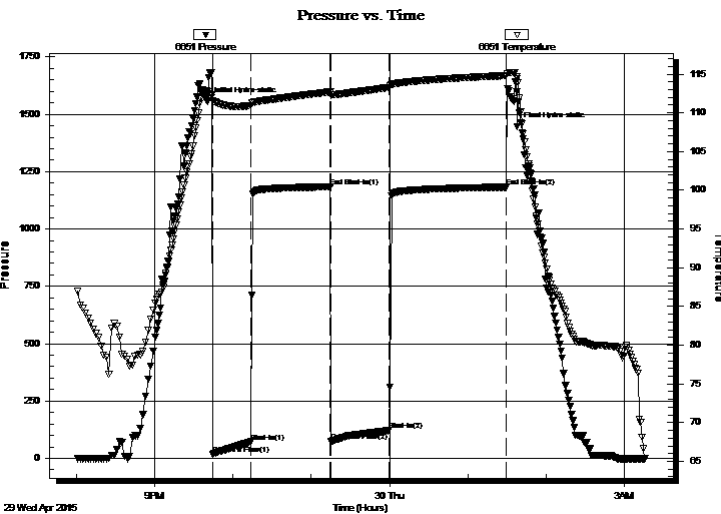
19-19s-10w Rice, KS
Ames-Robl #1-19
 Job Ticket: 61992 **DST#: 3**
 Test Start: 2015.04.29 @ 20:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:44:30
 Time Test Ended: 03:16:00
 Interval: **3353.00 ft (KB) To 3375.00 ft (KB) (TVD)**
 Total Depth: 3400.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Straddle (Initial)
 Tester: Shane Konzem
 Unit No: 56
 Reference Elevations: 1800.00 ft (KB)
 1787.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6651 Inside
 Press@RunDepth: 121.02 psig @ 3370.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.04.29 End Date: 2015.04.30 Last Calib.: 2015.04.30
 Start Time: 20:01:00 End Time: 03:16:00 Time On Btm: 2015.04.29 @ 21:40:30
 Time Off Btm: 2015.04.30 @ 01:38:00

TEST COMMENT: IFP 30 Minutes. Fair blow built to 5 1/2"
 ISI 60 Minutes. No blow back.
 FFP 45 Minutes. Fair blow built to 5"
 FSI 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1554.03	112.73	Initial Hydro-static
4	18.95	111.59	Open To Flow (1)
33	71.66	110.92	Shut-In(1)
94	1183.43	112.70	End Shut-In(1)
95	74.05	112.30	Open To Flow (2)
139	121.02	113.27	Shut-In(2)
229	1182.19	114.80	End Shut-In(2)
238	1446.19	114.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
94.00	MW 30% mud, 70% water	0.46
126.00	MW 10% mud, 90% water	0.94

Gas Rates

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



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DRILL STEM TEST REPORT

CMX, Inc.
1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209
ATTN: Ken LaBlanc

19-19s-10w Rice, KS

Ames-Robl #1-19

Job Ticket: 61992

DST#: 3

Test Start: 2015.04.29 @ 20:00:00

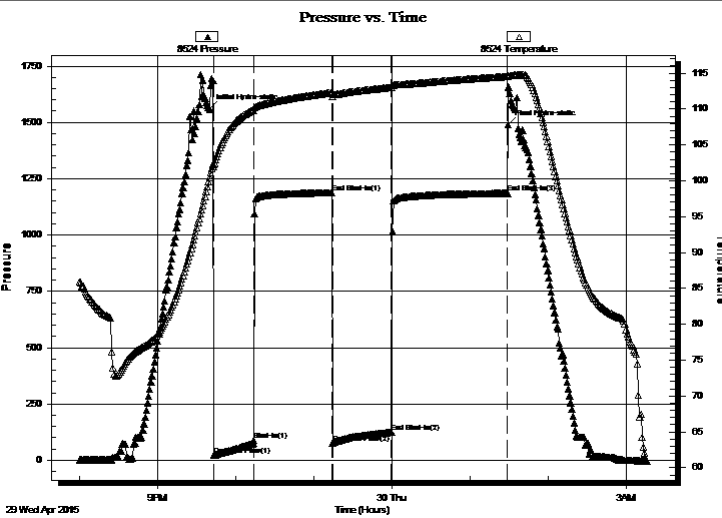
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:44:30
 Time Test Ended: 03:16:00
 Interval: **3353.00 ft (KB) To 3375.00 ft (KB) (TVD)**
 Total Depth: 3400.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Straddle (Initial)
 Tester: Shane Konzem
 Unit No: 56
 Reference Elevations: 1800.00 ft (KB)
 1787.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8524 Outside

Press@RunDepth: 1185.84 psig @ 3371.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.04.29 End Date: 2015.04.30 Last Calib.: 2015.04.30
 Start Time: 20:00:01 End Time: 03:15:33 Time On Btm: 2015.04.29 @ 21:39:50
 Time Off Btm: 2015.04.30 @ 01:29:06

TEST COMMENT: IFP 30 Minutes. Fair blow built to 5 1/2"
 ISI 60 Minutes. No blow back.
 FFP 45 Minutes. Fair blow built to 5"
 FSI 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1559.38	100.49	Initial Hydro-static
4	22.75	101.98	Open To Flow (1)
34	87.51	109.90	Shut-In(1)
94	1187.57	112.28	End Shut-In(1)
95	77.64	111.76	Open To Flow (2)
140	124.97	113.02	End Shut-In(2)
229	1185.84	114.53	End Shut-In(3)
230	1488.91	114.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
94.00	MW 30% mud, 70% water	0.46
126.00	MW 10% mud, 90% water	0.94

Gas Rates

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



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TESTING, INC**

DRILL STEM TEST REPORT

CMX, Inc.
1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209
ATTN: Ken LaBlanc

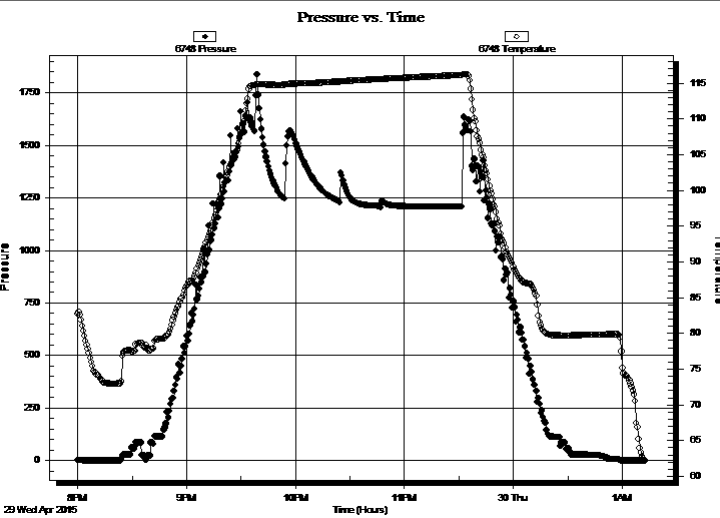
19-19s-10w Rice, KS
Ames-Robl #1-19
Job Ticket: 61992 **DST#: 3**
Test Start: 2015.04.29 @ 20:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:44:30
Time Test Ended: 03:16:00
Interval: **3353.00 ft (KB) To 3375.00 ft (KB) (TVD)**
Total Depth: 3400.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Reference Elevations: 1800.00 ft (KB)
1787.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6748 Below (Straddle)
Press@RunDepth: psig @ 3396.75 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.04.29 End Date: 2015.04.30 Last Calib.: 2015.04.30
Start Time: 20:00:01 End Time: 01:12:22 Time On Btm:
Time Off Btm:

TEST COMMENT: IFP 30 Minutes. Fair blow built to 5 1/2"
ISI 60 Minutes. No blow back.
FFP 45 Minutes. Fair blow built to 5"
FSI 90 Minutes. No blow back.



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

Recovery		
Length (ft)	Description	Volume (bbl)
94.00	MW 30% mud, 70% w water	0.46
126.00	MW 10% mud, 90% w water	0.94

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX, Inc.
1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209
ATTN: Ken LaBlanc

19-19s-10w Rice, KS
Ames-Robl #1-19
Job Ticket: 61992 **DST#: 3**
Test Start: 2015.04.29 @ 20:00:00

Tool Information

Drill Pipe:	Length: 3172.00 ft	Diameter: 3.80 inches	Volume: 44.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 184.58 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 45.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.58 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3353.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	3371.75 ft			
Interval between Packers:	18.75 ft			
Tool Length:	68.75 ft			
Number of Packers:	2	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			3336.00	
Hydraulic tool	5.00			3341.00	
Safety Joint	2.00			3343.00	
Top Packer	5.00			3348.00	
Packer	5.00			3353.00	22.00 Bottom Of Top Packer
Anchor	16.00			3369.00	
Recorder	1.00	6651	Inside	3370.00	
Recorder	1.00	8524	Outside	3371.00	
Blank Off Sub	0.75			3371.75	18.75 Tool Interval
Packer	5.00			3376.75	
Perforations	19.00			3395.75	
Recorder	1.00	6748	Below	3396.75	
Bull Plug	3.00			3399.75	28.00 Bottom Packers & Anchor

Total Tool Length: 68.75



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX, Inc.
1700 N. Waterfront BLVD
BLDG 300B
Wichita KS, 67209
ATTN: Ken LaBlanc

19-19s-10w Rice,KS
Ames-Robl #1-19
Job Ticket: 61992 **DST#: 3**
Test Start: 2015.04.29 @ 20:00:00

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:	31000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

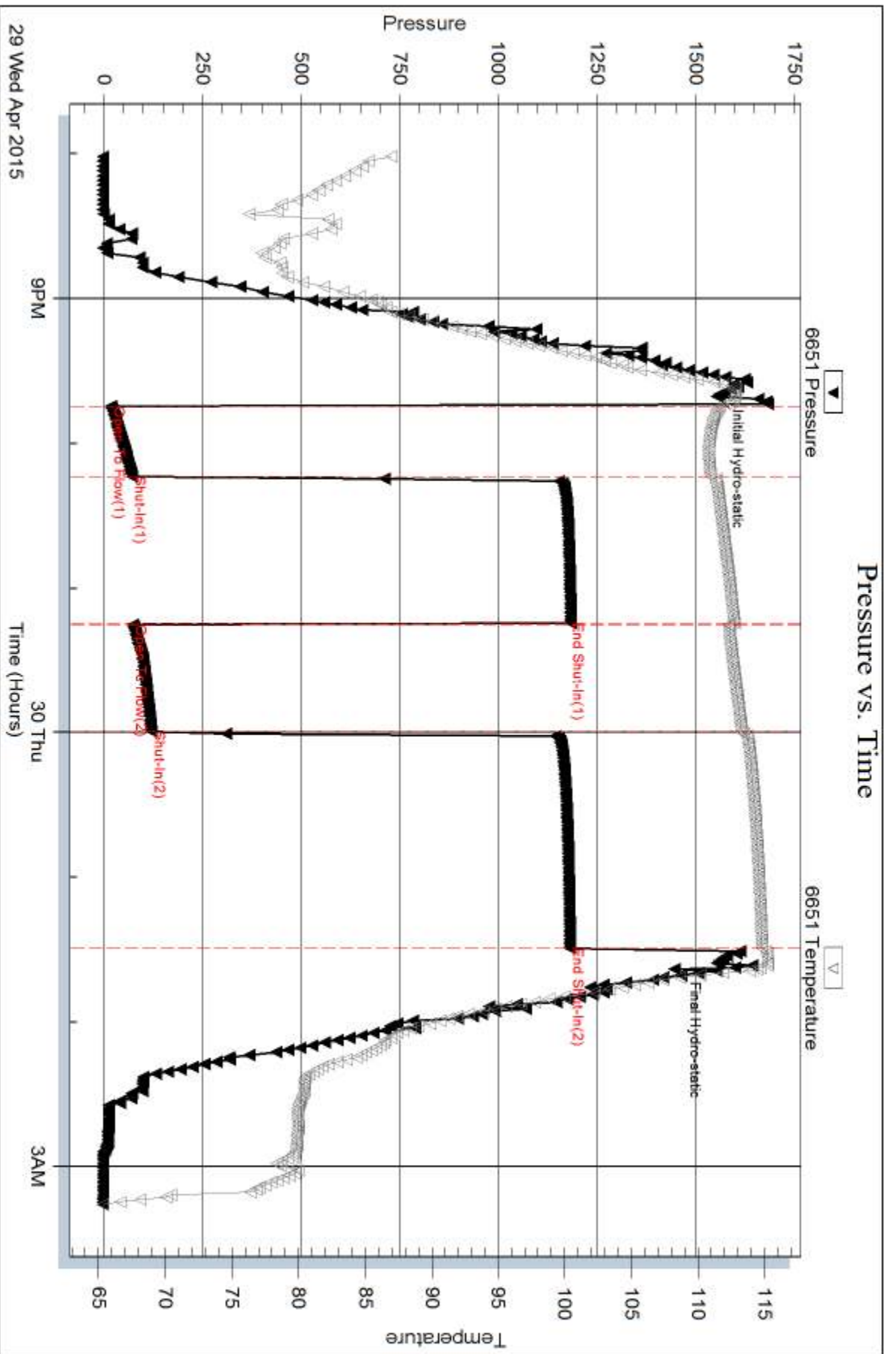
Length ft	Description	Volume bbl
94.00	MW 30% mud, 70% w ater	0.462
126.00	MW 10% mud, 90% w ater	0.942

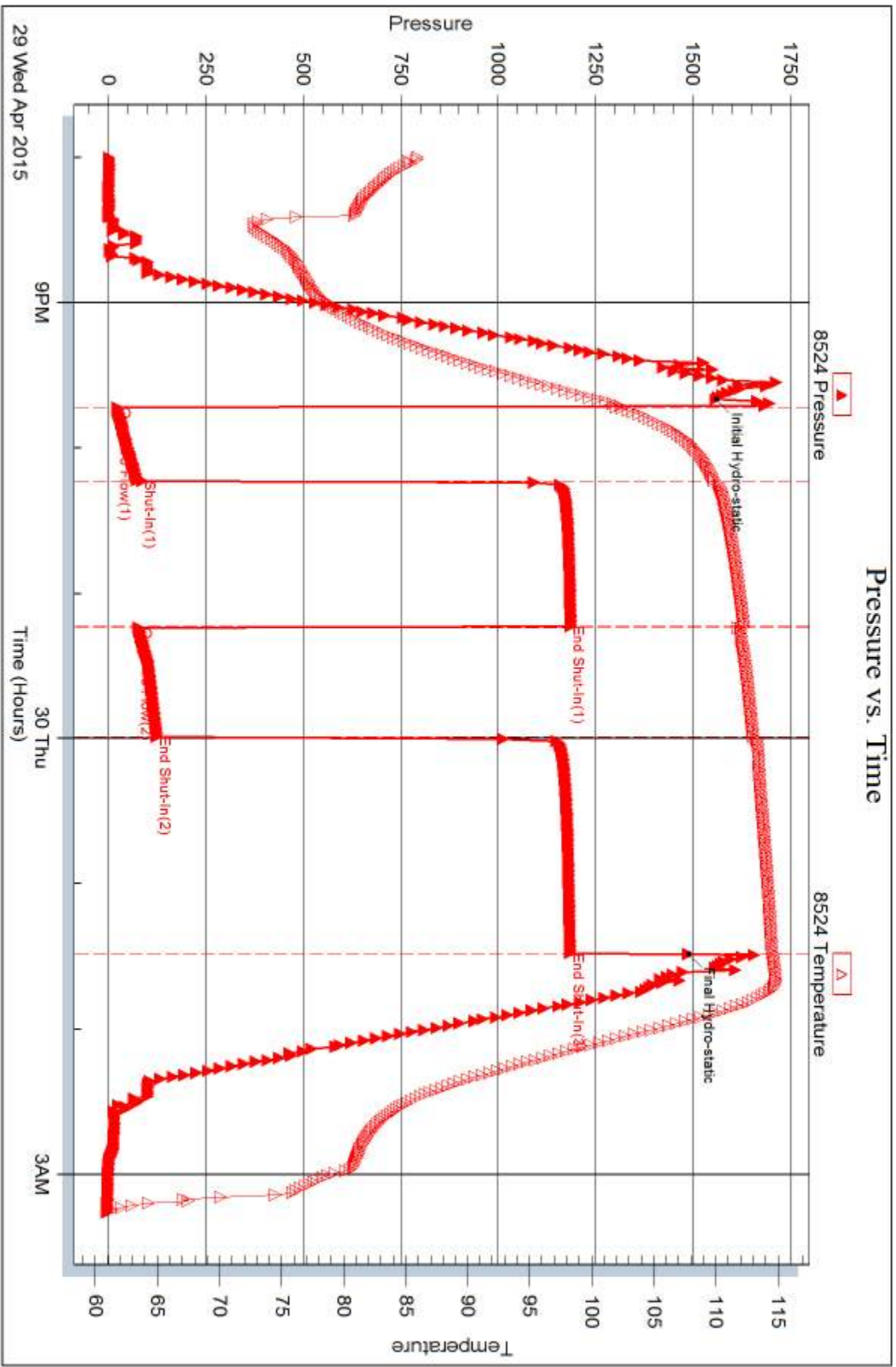
Total Length: 220.00 ft Total Volume: 1.404 bbl

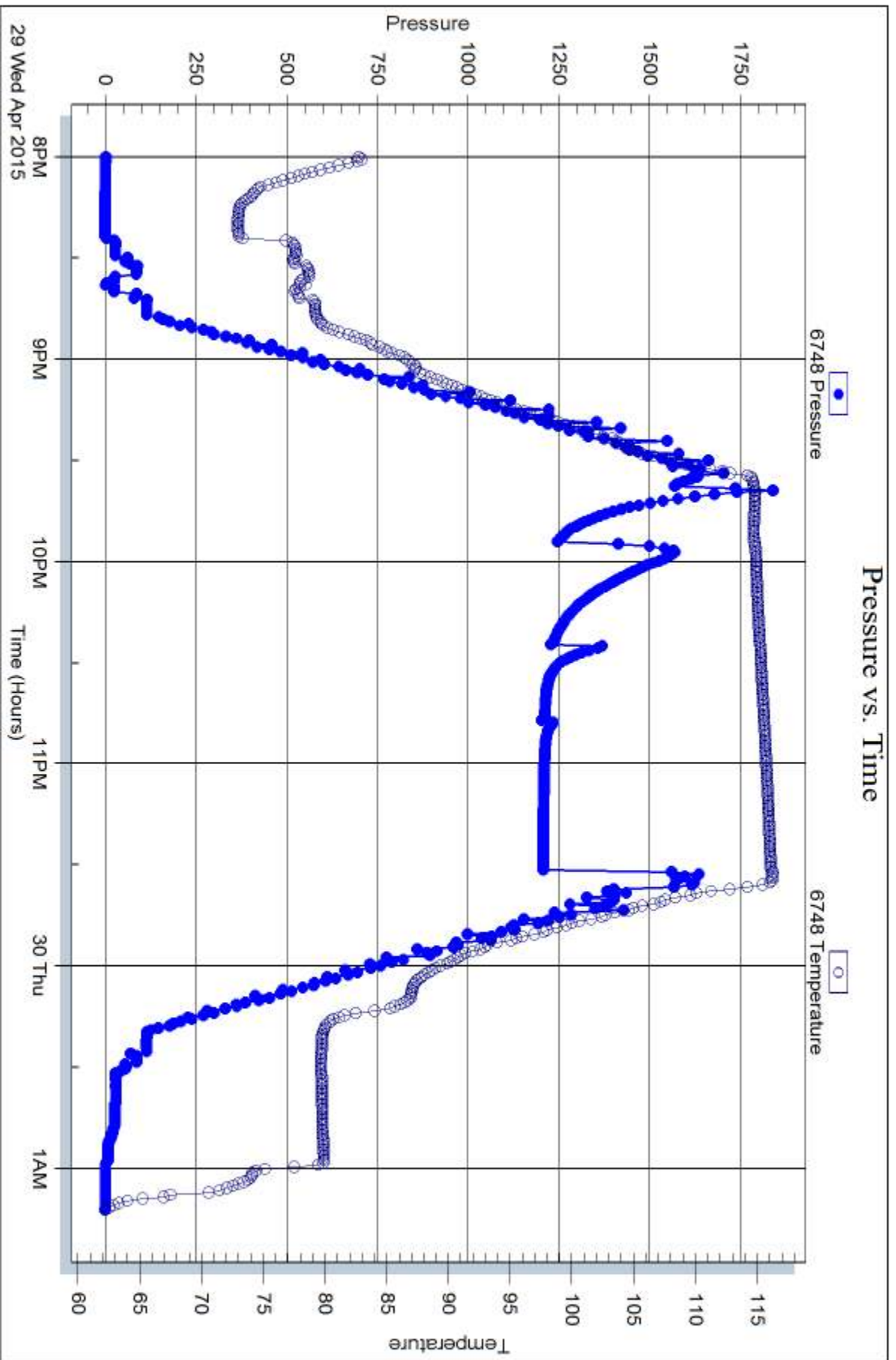
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

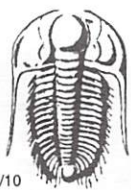
Laboratory Name: Laboratory Location:

Recovery Comments: rW.22 at 40 degrees









TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Shane # 620-786-0664

Test Ticket

NO. 61990

Well Name & No. Ames - Robl # 1-19 Test No. 1 Date 4-27-15
 Company CMX, Inc. Elevation 1800 KB 1787 GL
 Address 1700 N. Waterfront Blvd Bldg 300B Wichita KS 67209
 Co. Rep / Geo. Kin LaBlanc Rig Duke 7
 Location: Sec. 19 Twp. 19S Rge. 10W Co. Rice State KS

Interval Tested 3035 - 3060 Zone Tested Lansing B
 Anchor Length 25' Drill Pipe Run 2857 Mud Wt. 9.2
 Top Packer Depth 3030 Drill Collars Run 184.58 Vis 44
 Bottom Packer Depth 3035 Wt. Pipe Run Ø WL 9.0
 Total Depth 3060 Chlorides 3500 ppm System LCM 0#

Blow Description 1st Open - 1" Blow. 1st Shut In - No blow back. 2nd Open - No blow
Flushed tool gained weak surface blow. 2nd Shut In - No blow back

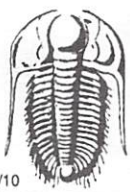
Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 126 BHT 107 Gravity 1 API RW 1 @ 1 °F Chlorides 1 ppm

(A) Initial Hydrostatic 1457 Test 850 T-On Location 1045
 (B) First Initial Flow 152 Jars _____ T-Started 1315
 (C) First Final Flow 411 Safety Joint 75 T-Open 1420
 (D) Initial Shut-In 413 Circ Sub _____ T-Pulled 1755
 (E) Second Initial Flow 399 Hourly Standby _____ T-Out 1910
 (F) Second Final Flow 404 Mileage 47 47 Comments _____
 (G) Final Shut-In 408 Sampler _____
 (H) Final Hydrostatic 1377 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 972
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 972

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61991

Well Name & No. Ames - Robl # 1-19 Test No. 2 Date 4-28-15
 Company CMX, Inc. Elevation 1800 KB 1787 GL
 Address 1700 N. Waterfront Blvd Bldg 300B Wichita KS 67209
 Co. Rep / Geo. Ken LaBlanc Rig Duke 7
 Location: Sec. 19 Twp. 19S Rge. 10W Co. Rice State KS

Interval Tested 3313-3335 Zone Tested Arbuckle
 Anchor Length 22' Drill Pipe Run 311 Mud Wt. 8.8
 Top Packer Depth 3308 Drill Collars Run 184.58 Vis 4S
 Bottom Packer Depth 3313 Wt. Pipe Run 0 WL 10.0
 Total Depth 3335 Chlorides 4800 ppm System LCM 0[#]

Blow Description 1st open - Bottom of bucket in 2 minutes. 1st shut In - 7" Blow back. 2nd open - Bottom of bucket in 3 minutes 30 seconds. 2nd shut In - 4 inch blow back.

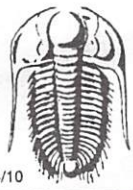
Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>914 feet Gas in pipe</u>	<u>100</u>			
<u>693</u>	<u>Clean gassy oil</u>		<u>100</u>		
<u>220</u>	<u>oil cut muddy water</u>		<u>10</u>	<u>80</u>	<u>10</u>

Rec Total 913 BHT _____ Gravity 40 API RW 022 @ 50 °F Chlorides 31000 ppm

(A) Initial Hydrostatic 1536 Test 1050 T-On Location 1700
 (B) First Initial Flow 82 Jars _____ T-Started 1745
 (C) First Final Flow 252 Safety Joint 75 T-Open 1920
 (D) Initial Shut-In 1009 Circ Sub _____ T-Pulled 2220
 (E) Second Initial Flow 256 Hourly Standby _____ T-Out 0045
 (F) Second Final Flow 585 Mileage 47 ⁴⁷ Comments H₂S exposure
 (G) Final Shut-In 961 Sampler _____
 (H) Final Hydrostatic 1528 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1172
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1172

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61992

Well Name & No. Ames - Robt #1-19 Test No. 3 Date 4-29-15
 Company CMX, Inc. Elevation 1800 KB 1787 GL
 Address 1700 N. Waterfront Blvd Bldg 300B Wichita KS 67209
 Co. Rep / Geo. Ken LaBlanc Rig Duke 7
 Location: Sec. 19 Twp. 19S Rge. 10W Co. Rice State KS

Interval Tested 3353 - 3375 Zone Tested Arbuckle
 Anchor Length 22' Drill Pipe Run 3172 Mud Wt. 9.0
 Top Packer Depth 3348 Drill Collars Run 184.58 Vis 46
 Bottom Packer Depth 3353 Wt. Pipe Run Ø WL 10.0
 Total Depth 3400 Chlorides 6400 ppm System LCM 0#
 Blow Description 1st open - 5 1/2 inch blow. 1st shut In - No blow back.
2nd open - 5 inch Blow. 2nd shut In - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>94</u>	<u>muddy water</u>			<u>70</u>	<u>30</u>
<u>124</u>	<u>muddy water</u>			<u>90</u>	<u>10</u>

Rec Total 220 BHT 114 Gravity 1 API RW .22 @ 40 °F Chlorides 31000 ppm

(A) Initial Hydrostatic 1554 Test 1050 T-On Location 1945
 (B) First Initial Flow 18 Jars _____ T-Started 2010
 (C) First Final Flow 71 Safety Joint 75 T-Open 2150
 (D) Initial Shut-In 1183 Circ Sub _____ T-Pulled 0135
 (E) Second Initial Flow 74 Hourly Standby _____ T-Out 0310
 (F) Second Final Flow 121 Mileage 47 47 Comments _____
 (G) Final Shut-In 1182 Sampler _____
 (H) Final Hydrostatic 1446 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1772
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1772

Approved By _____ Our Representative Shan Kay

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