



DRILL STEM TEST REPORT

Prepared For: **CMX Inc.**

1700 N. Waterfront Parkway
BLDG. 300B
Wichita KS. 67206

ATTN: Ken LeBlanc

Money Shot #1-21

21-27s-14w Pratt,KS

Start Date: 2016.05.07 @ 20:23:39

End Date: 2016.05.08 @ 01:44:24

Job Ticket #: 57945 DST #: 1

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

Printed: 2016.05.13 @ 08:42:37



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

CMX Inc.
1700 N. Waterfront Parkw ay
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

21-27s-14w Pratt,KS

Money Shot #1-21

Job Ticket: 57945

DST#: 1

Test Start: 2016.05.07 @ 20:23:39

GENERAL INFORMATION:

Formation: **LKC. B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:46:09

Time Test Ended: 01:44:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 80

Interval: 3947.00 ft (KB) To 3962.00 ft (KB) (TVD)

Reference Elevations: 2004.00 ft (KB)

Total Depth: 3962.00 ft (KB) (TVD)

1991.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 13.00 ft

Serial #: 9124 Outside

Press@RunDepth: psig @ 3948.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.05.07 End Date: 2016.05.08

Last Calib.: 2016.05.08

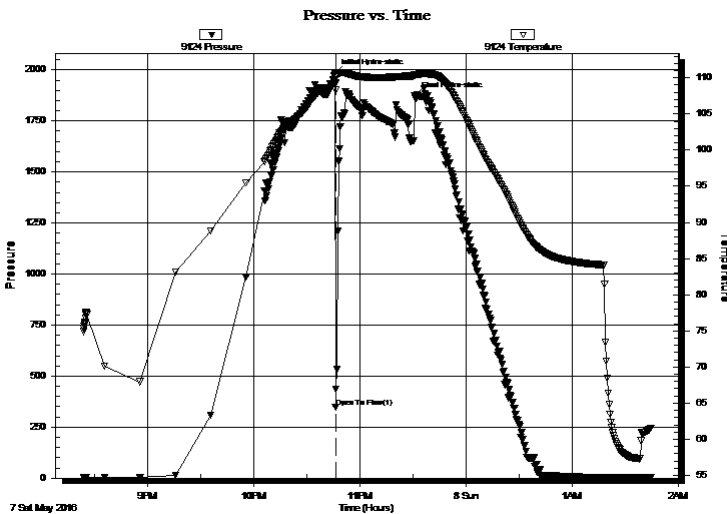
Start Time: 20:23:44 End Time: 01:44:23

Time On Btm: 2016.05.07 @ 22:45:54

Time Off Btm: 2016.05.07 @ 23:30:54

TEST COMMENT: IF:Weak blow . 2" decreasing.
IS:No blow .
FF:Very weak blow .(surface) Dead in 6 mins. FSI:None
Comment:10 - 12 ft. of hard fill on btm. Slid tool 4 - 5 ft.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.11	109.18	Initial Hydro-static
1	346.34	108.31	Open To Flow (1)
45	1871.28	110.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Heavy gritty mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc.

21-27s-14w Pratt,KS

1700 N. Waterfront Parkway
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

Money Shot #1-21

Job Ticket: 57945

DST#: 1

Test Start: 2016.05.07 @ 20:23:39

Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 53.43 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3947.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 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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Change Over Sub	1.00			3925.00	
Shut In Tool	5.00			3930.00	
Hydraulic tool	5.00			3935.00	
Safety Joint	3.00			3938.00	
Packer	4.00			3942.00	23.00 Bottom Of Top Packer
Packer	5.00			3947.00	
Stubb	1.00			3948.00	
Recorder	0.00	9124	Outside	3948.00	
Recorder	0.00	6798	Inside	3948.00	
Perforations	9.00			3957.00	
Bullnose	5.00			3962.00	15.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc.

21-27s-14w Pratt, KS

1700 N. Waterfront Parkw ay
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

Money Shot #1-21

Job Ticket: 57945

DST#: 1

Test Start: 2016.05.07 @ 20:23:39

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 41.00 sec/qt

Water Loss: 9.57 in³

Resistivity: 0.00 ohm.m

Salinity: 4800.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 4800 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Heavy gritty mud	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

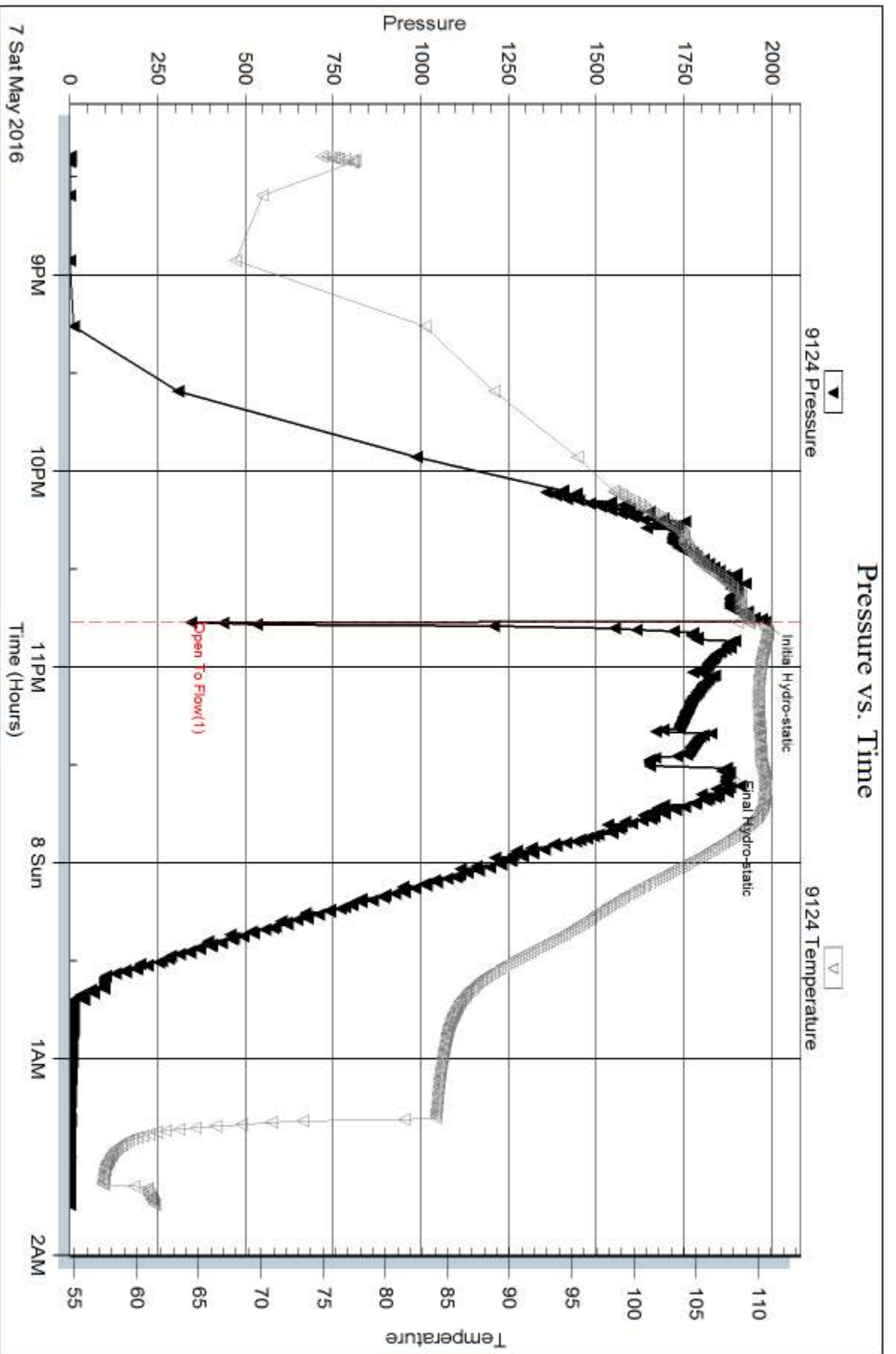
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



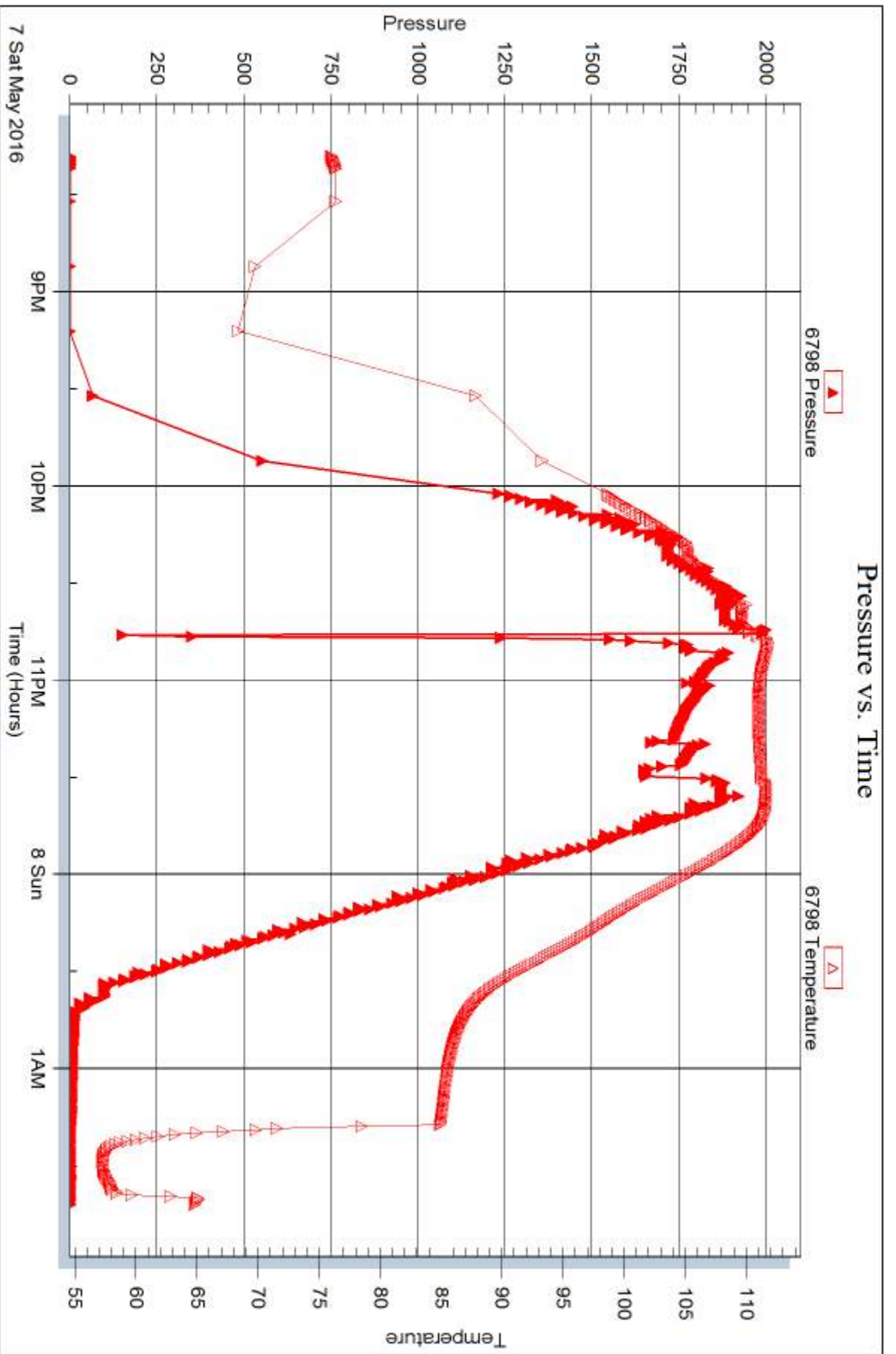
Serial #: 6798

Inside

CMX Inc.

Money Shot #1-21

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57945

Printed: 2016.05.13 @ 08:42:39



DRILL STEM TEST REPORT

Prepared For: **CMX Inc.**

1700 N. Waterfront Parkway
BLDG. 300B
Wichita KS. 67206

ATTN: Ken LeBlanc

Money Shot #1-21

21-27s-14w Pratt,KS

Start Date: 2016.05.08 @ 07:07:20

End Date: 2016.05.08 @ 15:00:50

Job Ticket #: 57946 DST #: 2

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

Printed: 2016.05.13 @ 08:41:47

CMX Inc. 21-27s-14w Pratt,KS Money Shot #1-21 DST # 2 LKC B 2016.05.08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

CMX Inc.
 1700 N. Waterfront Parkw ay
 BLDG. 300B
 Wichita KS. 67206
 ATTN: Ken LeBlanc

21-27s-14w Pratt,KS

Money Shot #1-21

Job Ticket: 57946

DST#: 2

Test Start: 2016.05.08 @ 07:07:20

GENERAL INFORMATION:

Formation: **LKC B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:03:20
 Time Test Ended: 15:00:50
 Interval: **3947.00 ft (KB) To 3962.00 ft (KB) (TVD)**
 Total Depth: 3962.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 2004.00 ft (KB)
 1991.00 ft (CF)
 KB to GR/CF: 13.00 ft

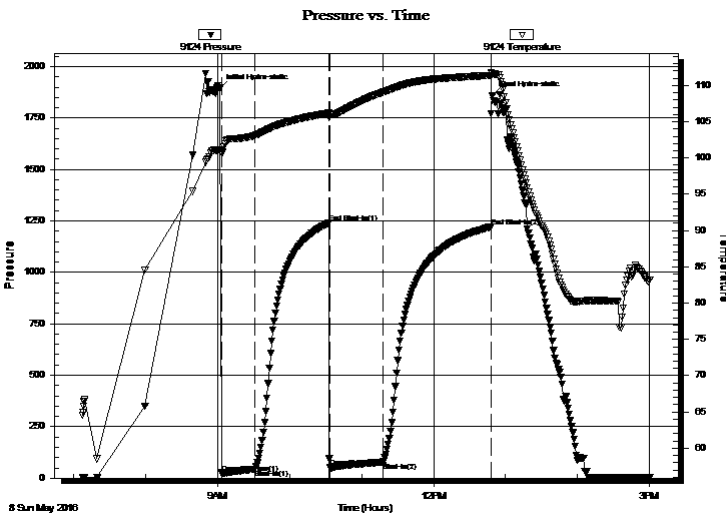
Serial #: 9124

Outside

Press@RunDepth: 78.73 psig @ 3948.00 ft (KB)
 Start Date: 2016.05.08 End Date: 2016.05.08
 Start Time: 07:07:25 End Time: 15:00:49
 Capacity: 8000.00 psig
 Last Calib.: 2016.05.08
 Time On Btm: 2016.05.08 @ 09:01:50
 Time Off Btm: 2016.05.08 @ 12:49:05

TEST COMMENT: IF:Strong blow . B.O.B. in 8 1/2 mins.
 IS:Weak blow . 1/2 - 3/4".
 FF:Fair to strong blow . B.O.B. in 13 mins.
 FS:Weak blow . 1/2 - 3/4".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1891.14	101.10	Initial Hydro-static
2	23.59	100.77	Open To Flow (1)
30	44.26	103.13	Shut-In(1)
91	1239.75	106.19	End Shut-In(1)
92	50.91	105.93	Open To Flow (2)
136	78.73	109.07	Shut-In(2)
226	1220.86	111.41	End Shut-In(2)
228	1859.63	111.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
32.00	OCMW 5%o 19%m 76%w	0.16
93.00	GMCO 30%g 33%m 37%o	0.46
10.00	OCM 18%o 82%m	0.05
0.00	505 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc.

21-27s-14w Pratt,KS

1700 N. Waterfront Parkway
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

Money Shot #1-21

Job Ticket: 57946

DST#: 2

Test Start: 2016.05.08 @ 07:07:20

Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 77000.00 lb
			<u>Total Volume: 53.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3947.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 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			3925.00	
Shut In Tool	5.00			3930.00	
Hydraulic tool	5.00			3935.00	
Safety Joint	3.00			3938.00	
Packer	4.00			3942.00	23.00 Bottom Of Top Packer
Packer	5.00			3947.00	
Stubb	1.00			3948.00	
Recorder	0.00	9124	Outside	3948.00	
Recorder	0.00	6798	Inside	3948.00	
Perforations	9.00			3957.00	
Bullnose	5.00			3962.00	15.00 Bottom Packers & Anchor

Total Tool Length: 38.00



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BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

Money Shot #1-21

Job Ticket: 57946

DST#: 2

Test Start: 2016.05.08 @ 07:07:20

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 7.97 in³
Resistivity: 0.00 ohm.m
Salinity: 4500.00 ppm
Filter Cake: 0.20 inches

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

Oil API: deg API
Water Salinity: 70000 ppm

Recovery Information

Recovery Table

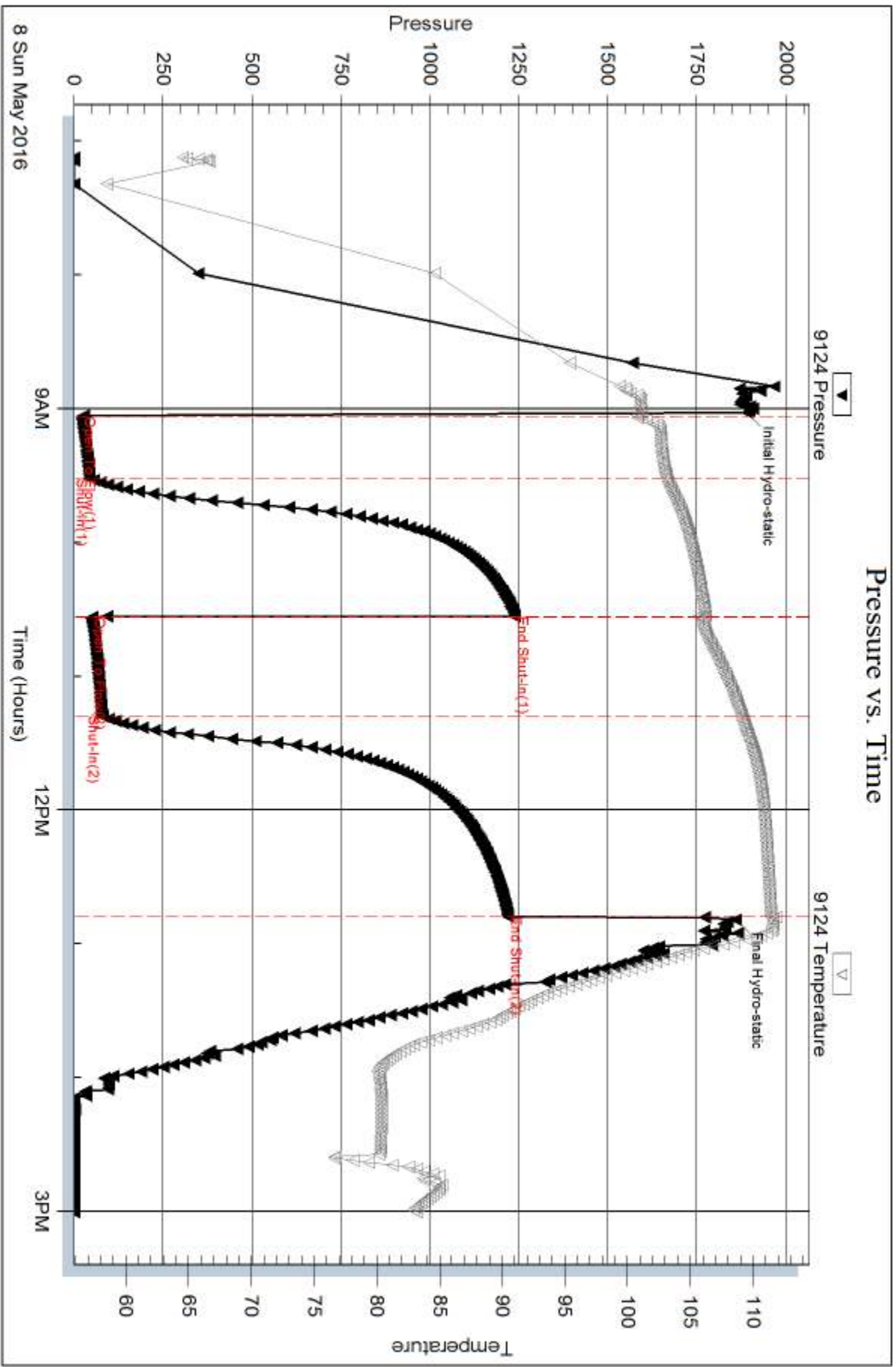
Length ft	Description	Volume bbl
32.00	OCMW 5%o 19%m 76%w	0.157
93.00	GMCO 30%g 33%m 37%o	0.457
10.00	OCM 18%o 82%m	0.049
0.00	505 ft.of GIP	0.000

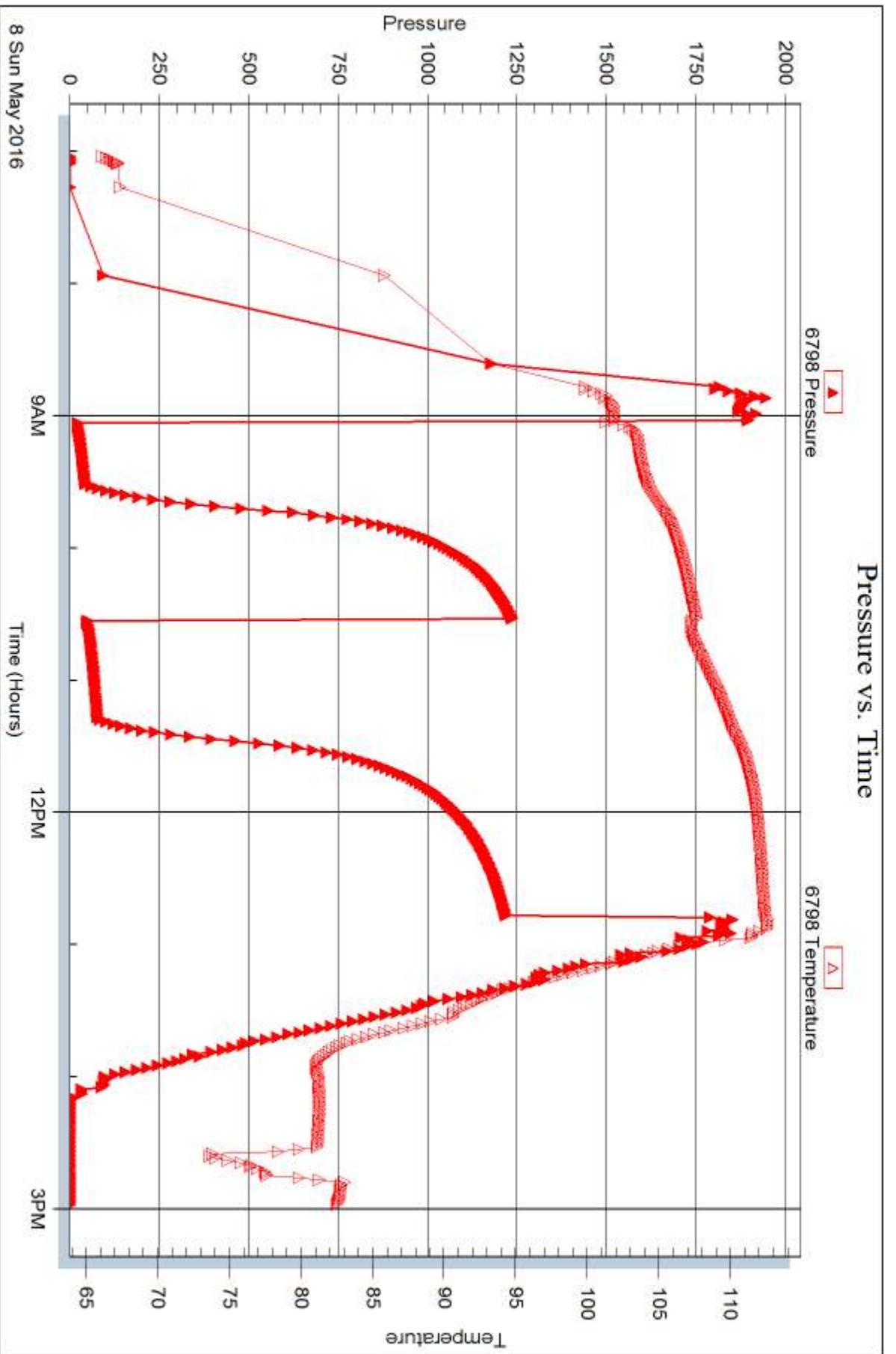
Total Length: 135.00 ft Total Volume: 0.663 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments: Rw .12ohms@65deg







DRILL STEM TEST REPORT

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1700 N. Waterfront Parkway
BLDG. 300B
Wichita KS. 67206

ATTN: Ken LeBlanc

Money Shot #1-21

21-27s-14w Pratt,KS

Start Date: 2016.05.09 @ 04:51:54

End Date: 2016.05.09 @ 13:02:09

Job Ticket #: 57947 DST #: 3

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

Printed: 2016.05.13 @ 08:41:23



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

CMX Inc.
1700 N. Waterfront Parkw ay
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

21-27s-14w Pratt,KS

Money Shot #1-21

Job Ticket: 57947

DST#: 3

Test Start: 2016.05.09 @ 04:51:54

GENERAL INFORMATION:

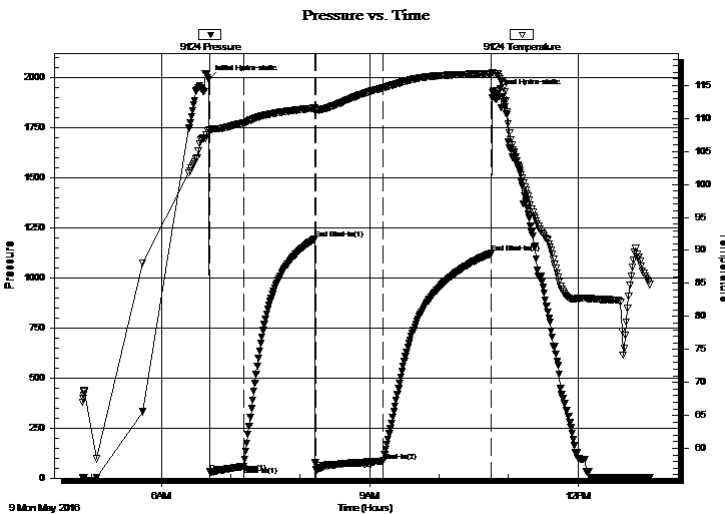
Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:41:54
 Time Test Ended: 13:02:09
 Interval: **4068.00 ft (KB) To 4090.00 ft (KB) (TVD)**
 Total Depth: 4090.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 2004.00 ft (KB)
 1991.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 9124 Outside

Press@RunDepth: 83.91 psig @ 4069.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.09 End Date: 2016.05.09 Last Calib.: 2016.05.09
 Start Time: 04:51:59 End Time: 13:02:08 Time On Btm: 2016.05.09 @ 06:40:39
 Time Off Btm: 2016.05.09 @ 10:46:24

TEST COMMENT: IF:Strong blow . B.O.B. in 100 secs.
 IS:No blow .
 FF:Strong blow . B.O.B. in 6 secs.
 FS:Weak blow . 1/2 - 1".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.66	108.24	Initial Hydro-static
2	31.44	108.08	Open To Flow (1)
31	57.39	109.29	Shut-In(1)
92	1195.40	111.57	End Shut-In(1)
93	43.35	111.37	Open To Flow (2)
151	83.91	114.61	Shut-In(2)
245	1123.94	116.83	End Shut-In(2)
246	1924.18	116.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GMCO 46%g 6%m 48%o	0.30
137.00	GMCO 28%g 36%m 36%o	0.81
2.00	Clean Oil	0.03
0.00	3280 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc.

21-27s-14w Pratt,KS

1700 N. Waterfront Parkway
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

Money Shot #1-21

Job Ticket: 57947

DST#: 3

Test Start: 2016.05.09 @ 04:51:54

Tool Information

Drill Pipe:	Length: 3870.00 ft	Diameter: 3.80 inches	Volume: 54.29 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 83000.00 lb
			<u>Total Volume: 55.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4068.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	45.00 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			4046.00	
Shut In Tool	5.00			4051.00	
Hydraulic tool	5.00			4056.00	
Safety Joint	3.00			4059.00	
Packer	4.00			4063.00	23.00 Bottom Of Top Packer
Packer	5.00			4068.00	
Stubb	1.00			4069.00	
Recorder	0.00	9124	Outside	4069.00	
Recorder	0.00	6798	Inside	4069.00	
Perforations	16.00			4085.00	
Bullnose	5.00			4090.00	22.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc.

21-27s-14w Pratt,KS

1700 N. Waterfront Parkw ay
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

Money Shot #1-21

Job Ticket: 57947

DST#: 3

Test Start: 2016.05.09 @ 04:51:54

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 9.18 in³
Resistivity: 0.00 ohm.m
Salinity: 5400.00 ppm
Filter Cake: 0.20 inches

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

Oil API: deg API
Water Salinity: 5400 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	GMCO 46%g 6%m 48%o	0.300
137.00	GMCO 28%g 36%m 36%o	0.810
2.00	Clean Oil	0.028
0.00	3280 ft.of GIP	0.000

Total Length: 200.00 ft Total Volume: 1.138 bbl

Num Fluid Samples: 0

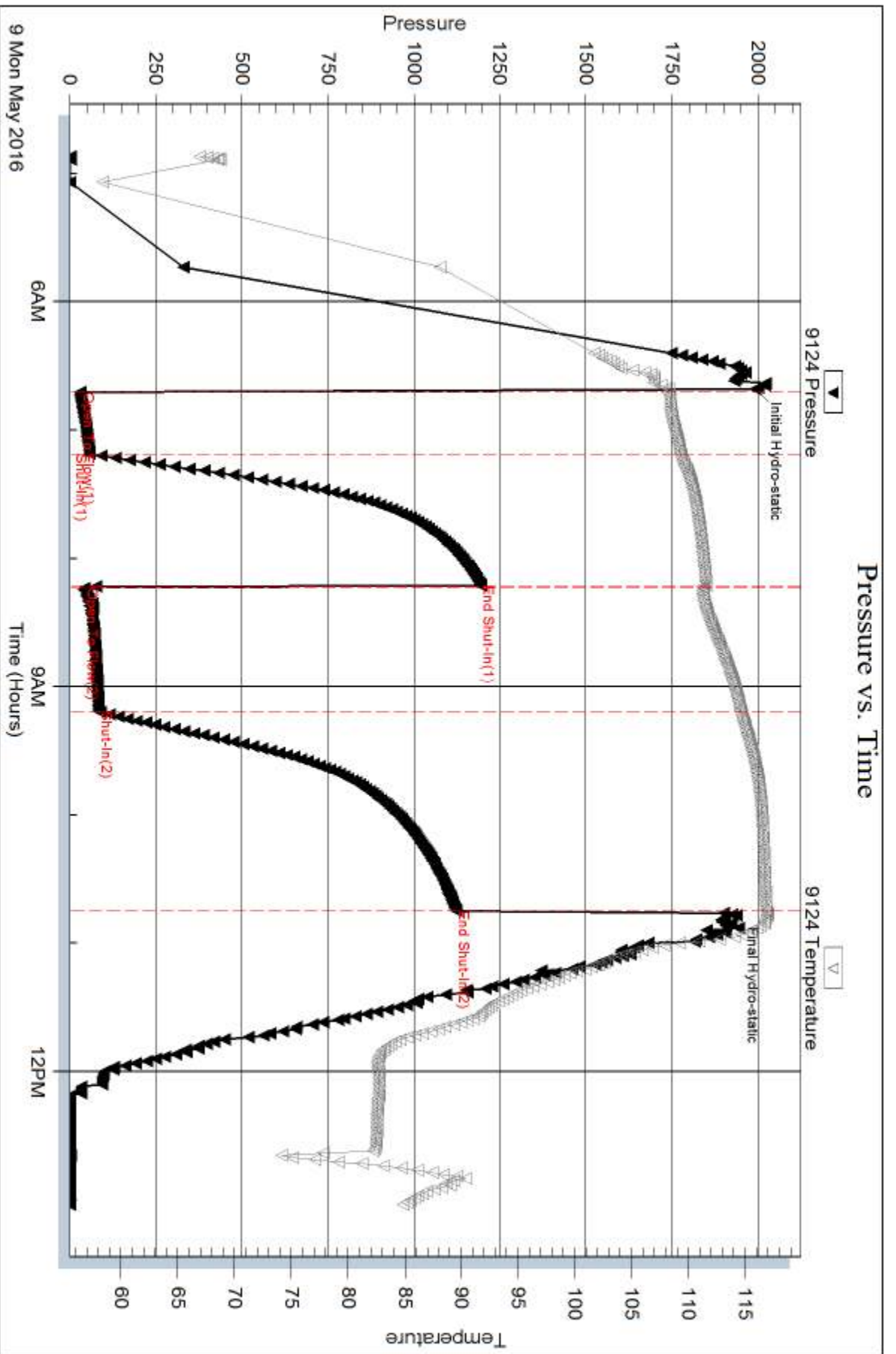
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



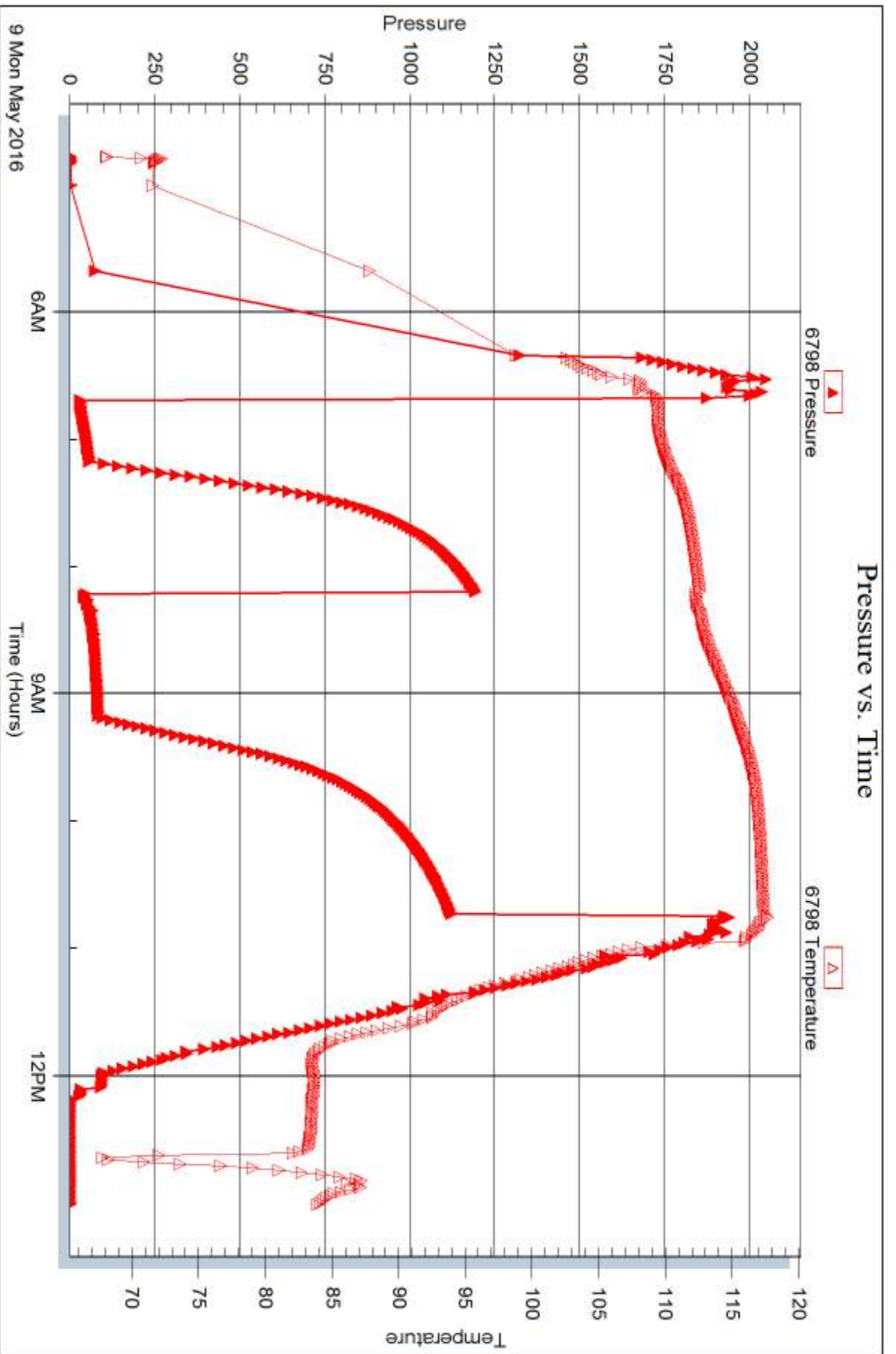
Serial #: 6798

Inside

CMX Inc.

Money Shot #1-21

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 57947

Printed: 2016.05.13 @ 08:41:25



DRILL STEM TEST REPORT

Prepared For: **CMX Inc.**

1700 N. Waterfront Parkway
BLDG. 300B
Wichita KS. 67206

ATTN: Ken LeBlanc

Money Shot #1-21

21-27s-14w Pratt,KS

Start Date: 2016.05.11 @ 07:59:24

End Date: 2016.05.11 @ 15:50:54

Job Ticket #: 57948 DST #: 4

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

Printed: 2016.05.13 @ 08:38:58

CMX Inc.
21-27s-14w Pratt,KS
Money Shot #1-21
DST # 4
Simpson Sand
2016.05.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

CMX Inc.
1700 N. Waterfront Parkw ay
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

21-27s-14w Pratt,KS

Money Shot #1-21

Job Ticket: 57948 **DST#: 4**
Test Start: 2016.05.11 @ 07:59:24

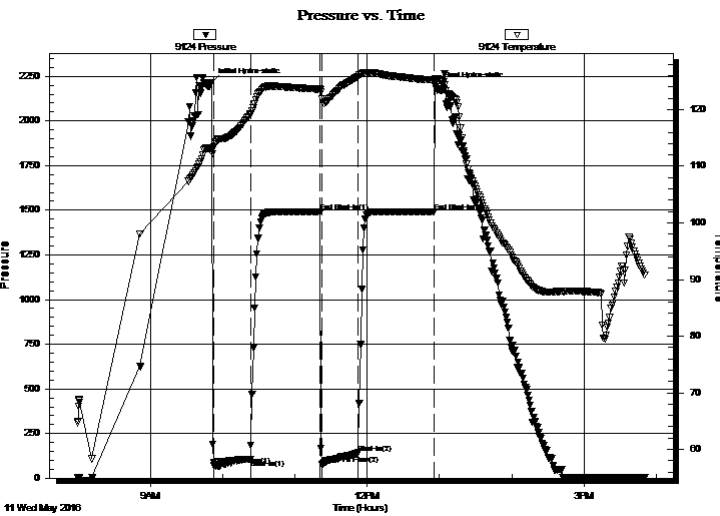
GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:52:39
Time Test Ended: 15:50:54
Interval: **4520.00 ft (KB) To 4548.00 ft (KB) (TVD)**
Total Depth: 4548.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2004.00 ft (KB)
1991.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 9124 Outside

Press@RunDepth: 141.38 psig @ 4521.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.05.11 End Date: 2016.05.11 Last Calib.: 2016.05.11
Start Time: 07:59:29 End Time: 15:50:53 Time On Btm: 2016.05.11 @ 09:50:54
Time Off Btm: 2016.05.11 @ 12:56:54

TEST COMMENT: IF:Stron blow . B.O.B. in 20 secs. GTS in 6 1/2 mins.(see gas flow report)
IS:Weak blow . 1/2 - 1".
FF:Strong blow . (see gas flow report)
FS:Weak blow . 1/2 - 1 1/2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.30	113.01	Initial Hydro-static
2	70.12	113.48	Open To Flow (1)
32	106.35	119.17	Shut-In(1)
90	1491.89	123.58	End Shut-In(1)
92	78.91	121.89	Open To Flow (2)
122	141.38	125.87	Shut-In(2)
185	1491.59	125.21	End Shut-In(2)
186	2193.67	125.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GCMW 4%g 4%m 92%w	0.61
125.00	GCMW /w trace of oil 6%g 22%m 72%w	1.22
105.00	GCWM 5%g 18%w 77%m	1.47

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	26.00	147.99
Last Gas Rate	0.38	2.00	60.08
Max. Gas Rate	0.38	30.00	162.65



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX Inc.

21-27s-14w Pratt, KS

1700 N. Waterfront Parkway
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

Money Shot #1-21

Job Ticket: 57948

DST#: 4

Test Start: 2016.05.11 @ 07:59:24

Tool Information

Drill Pipe:	Length: 4348.00 ft	Diameter: 3.80 inches	Volume: 60.99 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 88000.00 lb
		Total Volume: 61.89 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4520.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	51.00 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			4498.00	
Shut In Tool	5.00			4503.00	
Hydraulic tool	5.00			4508.00	
Safety Joint	3.00			4511.00	
Packer	4.00			4515.00	23.00 Bottom Of Top Packer
Packer	5.00			4520.00	
Stubb	1.00			4521.00	
Recorder	0.00	9124	Outside	4521.00	
Recorder	0.00	6798	Inside	4521.00	
Perforations	22.00			4543.00	
Bullnose	5.00			4548.00	28.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

CMX Inc.

21-27s-14w Pratt, KS

1700 N. Waterfront Parkw ay
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

Money Shot #1-21

Job Ticket: 57948

DST#: 4

Test Start: 2016.05.11 @ 07:59:24

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 10.18 in³

Resistivity: 0.00 ohm.m

Salinity: 4300.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 57000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GCMW 4%g 4%m 92%w	0.610
125.00	GCMW /w trace of oil 6%g 22%m 72%w	1.216
105.00	GCWM 5%g 18%w 77%m	1.473

Total Length: 354.00 ft Total Volume: 3.299 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-4

Laboratory Name: Caraw ay

Laboratory Location: Liberal, KS

Recovery Comments: Rw .11 ohms@83 deg



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

CMX Inc.

21-27s-14w Pratt, KS

1700 N. Waterfront Parkw ay
BLDG. 300B
Wichita KS. 67206
ATTN: Ken LeBlanc

Money Shot #1-21

Job Ticket: 57948

DST#: 4

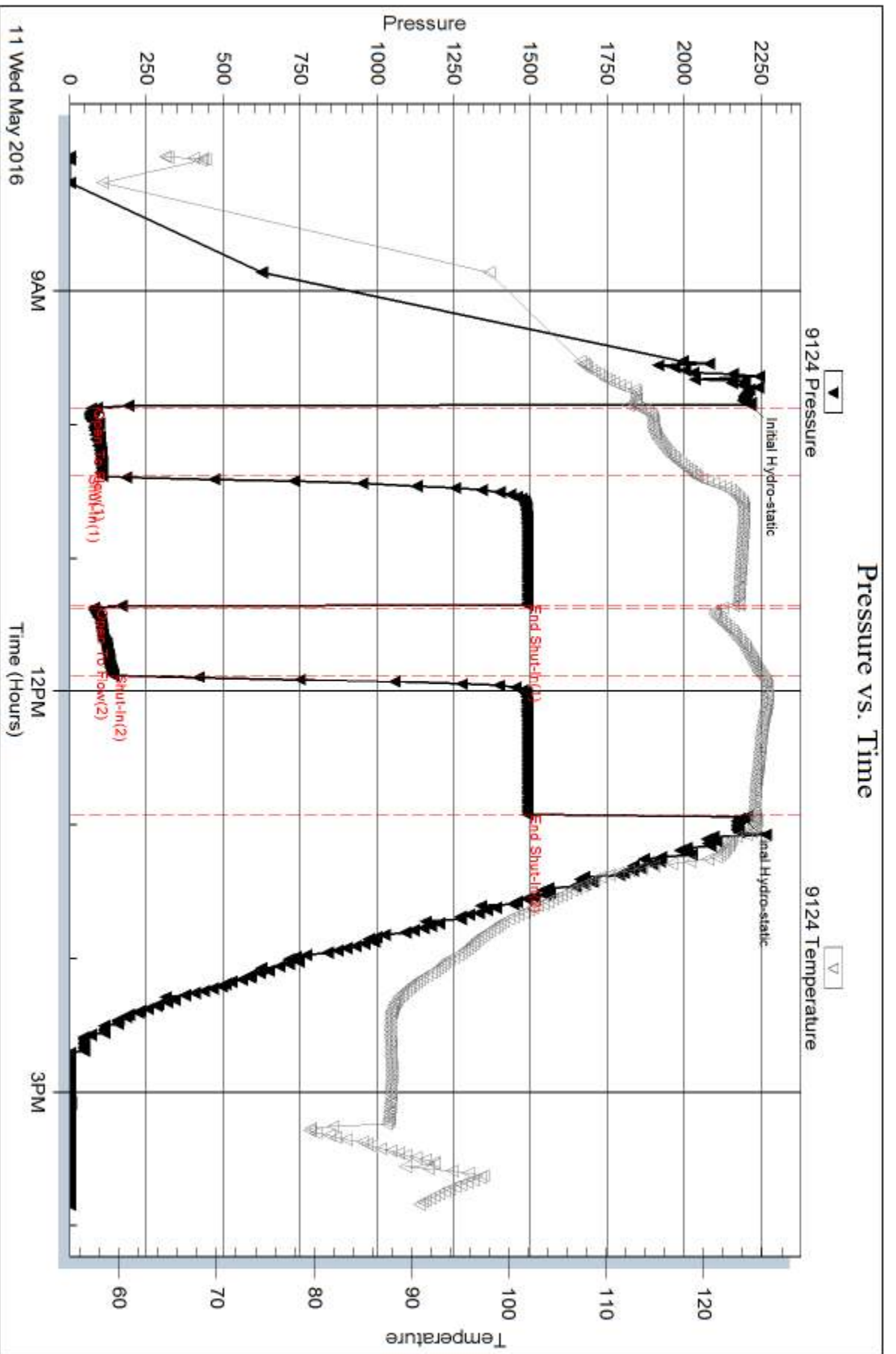
Test Start: 2016.05.11 @ 07:59:24

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.38	26.00	147.99
1	20	0.38	30.00	162.65
1	30	0.38	22.00	133.34
2	10	0.38	8.00	82.06
2	20	0.38	7.00	78.39
2	30	0.38	2.00	60.08



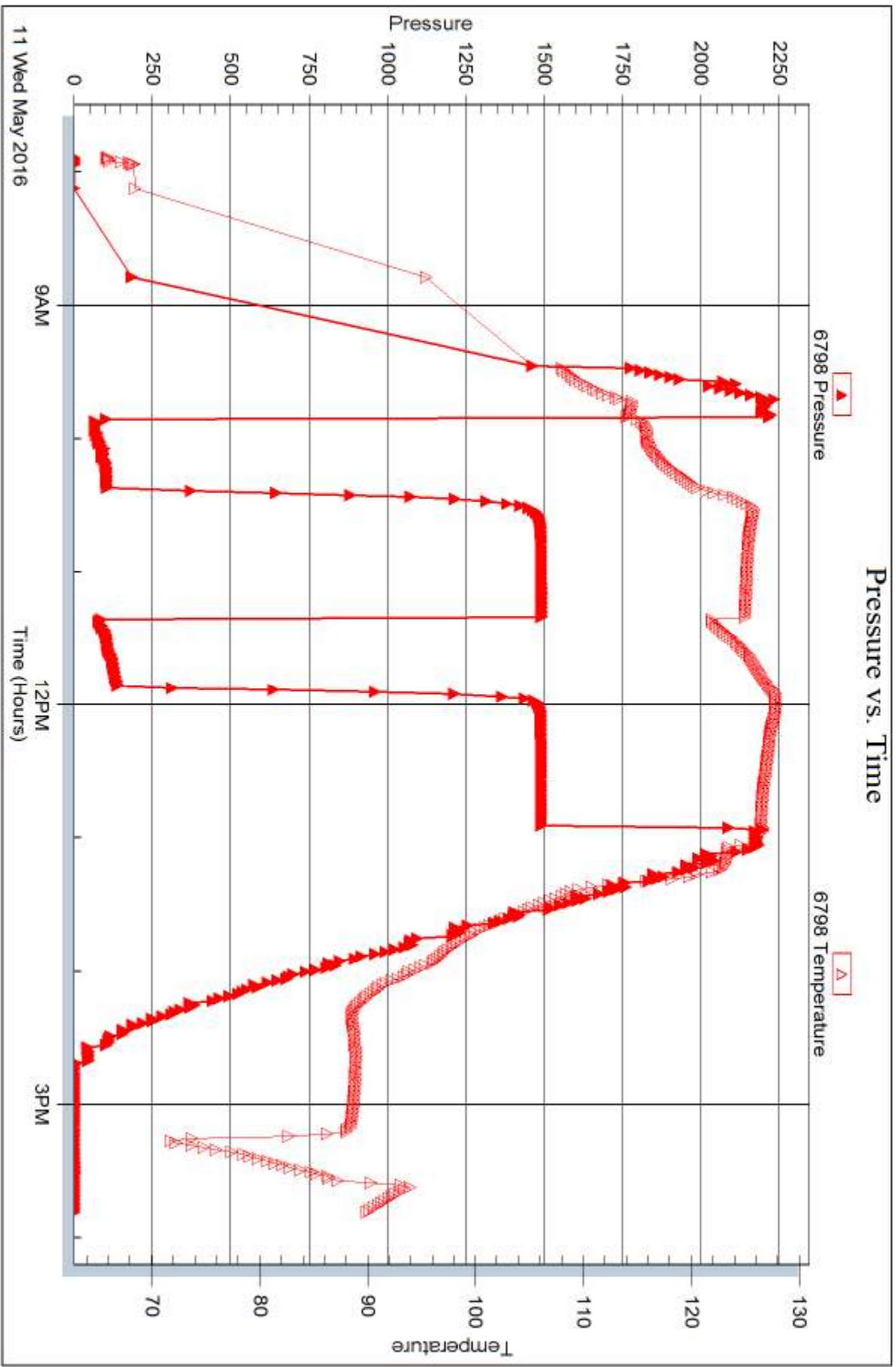
Serial #: 6798

Inside

CMX Inc.

Money Shot #1-21

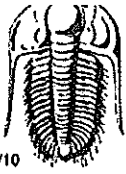
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 57948

Printed: 2016.05.13 @ 08:39:00



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57945

4/10

Well Name & No. MONEY SHOT # 1-21 Test No. 1 Date 5-7-2016
 Company CMX INC. Elevation 2004 KB 1991 GL
 Address 1700 N. WATERFRONT PARKWAY, BLDG 300B, WICHITA KS. 67206
 Co. Rep / Geo. KEN L BLANC Rig DUKE DRILL # 7
 Location: Sec. 21 Twp. 27 S Rge. 14 W Co. PRATT State KS.

Interval Tested 3947 - 3962' Zone Tested LANS. B.
 Anchor Length 15' Drill Pipe Run 3745' Mud Wt. 9.3
 Top Packer Depth 3942' Drill Collars Run 183' Vis 48
 Bottom Packer Depth 3947' Wt. Pipe Run 0 WL 9.16 cc
 Total Depth 3962' Chlorides 4800 ppm System LCM 2#
 Blow Description Weak blow, 2" decreasing, ISI: No blow.

FF: Very weak blow (surface) Dead in 6 mins.
 COMMENT: 10-12 ft. of hard fill on bitum. Mud tool 4-5 ft.

Rec	Feet of	%gas	%oil	%water	%mud
15	Heavy gritty Mud.				

Rec Total 15 BHT _____ Gravity N/A API RW NC @ _____ °F Chlorides 4800 ppm
 (A) Initial Hydrostatic 1983 Test Messum. 850 T-On Location 1910
 (B) First Initial Flow 346 Jars _____ T-Started 2023
 (C) First Final Flow _____ Safety Joint 75 T-Open 2246
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 2354
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 0144
 (F) Second Final Flow _____ Mileage 20 18 Comments Charts show tool plugged.
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1871 Straddle _____
 Initial Open 15 Shale Packer _____
 Initial Shut-In 13 Extra Packer _____
 Final Flow 6 Extra Recorder _____ Sub Total 0
 Final Shut-In NONE Day Standby _____ Total 943
 Accessibility _____ MP/DST Disc't _____
 Sub Total 943

Approved By _____ Our Representative Gay Rotary
 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.



TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

NO. 57946

Well Name & No. MONEY SHOT # 1-21 Test No. 2 Date 5-8-2016
 Company CMX Inc. Elevation 2004 KB 1991 GL
 Address 1700 N. WATERFRONT PARKWAY, BLDG 300 B, WICHITA KS. 67206
 Co. Rep / Geo. KEW LEBLANC Rig DUKE DRUG. #7
 Location: Sec. 21 Twp. 27S Rge. 14W Co. PRATT State Ks.

Interval Tested 3947-3962' Zone Tested LANS. B
 Anchor Length 15' Drill Pipe Run 3745' Mud Wt. 9.2
 Top Packer Depth 3942' Drill Collars Run 183' Vls 60
 Bottom Packer Depth 3947' Wt. Pipe Run 0 WL 8.0cc
 Total Depth 3962' Chlorides 4500 ppm System LCM 2#

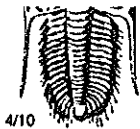
Blow Description IF: Strong blow. B.O.B. in 8 1/2 mins.
IST: Weak blow. 1/2 - 3/4"
FF: Fair to strong blow. B.O.B. in 13 mins. FSI: Weak blow. 1/2 - 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>505</u>	<u>Gas in pipe</u>				
<u>10</u>	<u>OCM</u>	<u>18</u>		<u>82</u>	
<u>93</u>	<u>GMCO</u>	<u>30</u>	<u>37</u>	<u>33</u>	
<u>32</u>	<u>OCMW</u>	<u>5</u>	<u>76</u>	<u>19</u>	

Rec Total 135' Fluid BHT 111° Gravity N/A API RW 12 @ 65 °F Chlorides 70,000 ppm
 Test 1050 T-On Location 0640
 Jars _____ T-Started 0707
 Safety Joint 75 T-Open 0903
 Circ Sub _____ T-Pulled 1251
 Hourly Standby _____ T-Out 1500
 Mileage (24) 18 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1143 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 90
 Approved By Kew LeBlanc Our Representative Gary Pivota

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TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

NO. 57947

Well Name & No. MONEY SHOT # 1-21 Test No. 3 Date 5-9-2016
 Company ~~WICHITA KANSAS~~ CMX INC. Elevation 2004 KB 1991 GL
 Address WICHITA KS. 67206
 Co. Rep / Geo. Ken LeBlanc Rig Duke Driller #7
 Location: Sec. 21 Twp. 27S Rge. 14W Co. PRATT State KS.

Interval Tested 4068 - 4090' Zone Tested LAWS. "H"
 Anchor Length 22' Drill Pipe Run 3870' Mud Wt. 9.3
 Top Packer Depth 4063' Drill Collars Run 183' Vis 50
 Bottom Packer Depth 4068' Wt. Pipe Run 0 WL 9.2 cc
 Total Depth 4090' Chlorides 5,400 ppm System LCM 3#

Blow Description IF: Strong blow. B.O.B. in 100 sec. IST: No blow.

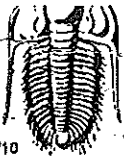
FF: Strong blow. B.O.B. in 6 sec. FST: Weak blow. 1/2 - 1".

Rec	Feet of	%gas	%oil	%water	%mud
<u>3280</u>	Gas <u>Gas in pipe</u>				
<u>2</u>	<u>clean oil</u>				
<u>137</u>	<u>CMCO</u>	<u>28</u>	<u>36</u>	<u>36</u>	
<u>61</u>	<u>CMCO</u>	<u>46</u>	<u>48</u>	<u>6</u>	

Rec Total 200 Fluid BHT 117° Gravity N.C. API RW N.C. @ 7 °F Chlorides 5400 ppm

(A) Initial Hydrostatic <u>1992</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0430</u>
(B) First Initial Flow <u>31</u>	<input type="checkbox"/> Jars	T-Started <u>0451</u>
(C) First Final Flow <u>57</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0641</u>
(D) Initial Shut-In <u>1193</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1046</u>
(E) Second Initial Flow <u>43</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1302</u>
(F) Second Final Flow <u>84</u>	<input checked="" type="checkbox"/> Mileage <u>(24)</u> 18	Comments _____
(G) Final Shut-In <u>1124</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1924</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Total <u>1243</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility <u>1243</u>	
	Sub Total _____	

Approved By Ken LeBlanc Our Representative Cary P. ...
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57948

Well Name & No. MONEY SHOT # 1-21 Test No. 4 Date 5-11-2016
 Company CMX INC. Elevation 2004 KB 1991 GL
 Address 1700N. WATERFRONT PARKWAY, BLDG. 300B, WICHITA KS. 67206
 Co. Rep / Geo. KEN LEOLANG Rig DUKE DRUG #7
 Location: Sec. 21 Twp. 27^S Rge. 14^W Co. PRATT State KS.

Interval Tested 4520 - 4548' Zone Tested SIMPSON SD.
 Anchor Length 28' Drill Pipe Run 4348' Mud Wt. 9.3
 Top Packer Depth 4515' Drill Collars Run 183' Vis 52
 Bottom Packer Depth 4520' Wt. Pipe Run 6 WL 10.2 cc
 Total Depth 4548' Chlorides 4300 ppm System LCM 3#

Blow Description IF: Strong blow. B.O.B. in 20 sec. GTS in 6 1/2 mins. (see gas flow report) ISI: Weak blow 1/2 - 1".
FF: Strong blow. (see gas flow report) FSI: Weak blow 1/2 - 1 1/2".

Rec	Feet of	%gas	%oil	%water	%mud
105	GCMW	5	18	77	
125	GCMW w/ trace of oil	6	72	22	
124	GCMW	4	92	4	

Rec Total 354 Fluid BHT 125° Gravity N/A API RW 11 @ 83 °F Chlorides 57,000 ppm
 (A) Initial Hydrostatic 2215 Test 1150 T-On Location 0747
 (B) First Initial Flow 70 Jars _____ T-Started 0759
 (C) First Final Flow 106 Safety Joint .75 T-Open 0952
 (D) Initial Shut-In 1492 Circ Sub _____ T-Pulled 1257
 (E) Second Initial Flow 79 Hourly Standby _____ T-Out 1550
 (F) Second Final Flow 141 Mileage (24) 18 Comments _____
 (G) Final Shut-In 1492 Sampler _____
 (H) Final Hydrostatic 2194 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies 225
 Initial Open 30 Extra Recorder _____
 Initial Shut-In 60 Day Standby 1.5d 6.75h
 Final Flow 30 Accessibility _____
 Final Shut-In 60 Sub Total 1243
 Sub Total 1243 Total 1243 + 225
 MP/DST Disc't _____

Approved By [Signature] Our Representative Craig Perotimus

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