



DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

150 N. Main Ste. 905
Wichita KS 67202

ATTN: Bob O'Dell

Lynn #1-14

14-11s-18w Ellis,KS

Start Date: 2013.09.08 @ 10:45:00

End Date: 2013.09.08 @ 16:18:00

Job Ticket #: 54433 DST #: 1

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

Printed: 2013.09.13 @ 10:35:29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 54433

DST#: 1

ATTN: Bob O'Dell

Test Start: 2013.09.08 @ 10:45:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:30

Time Test Ended: 16:18:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel/Brannan Lo

Unit No: 67

Interval: 3044.00 ft (KB) To 3070.00 ft (KB) (TVD)

Reference Elevations: 1913.00 ft (KB)

Total Depth: 3070.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6625 Outside

Press @ Run Depth: 26.29 psig @ 3067.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.08

End Date:

2013.09.08

Last Calib.:

2013.09.08

Start Time: 10:45:01

End Time:

16:18:00

Time On Btm:

2013.09.08 @ 13:00:00

Time Off Btm:

2013.09.08 @ 15:00:00

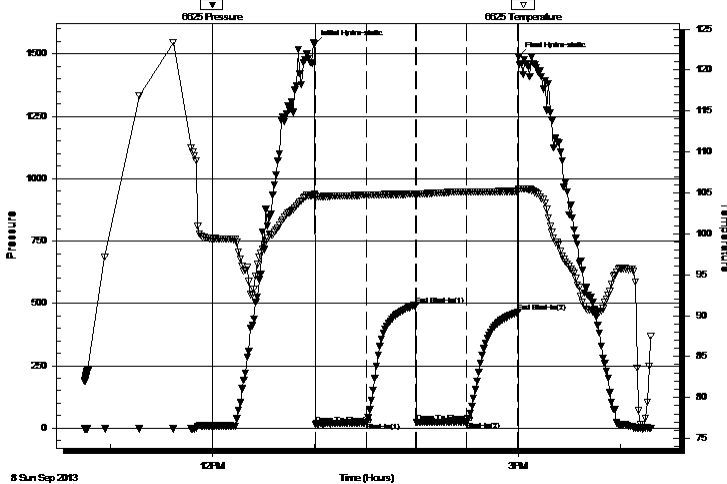
TEST COMMENT: 30- I.F.- Weak surface blow died in 1 min

30- I.S.I. No blow back

30- F.F. No blow

30- F.S.I. No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1538.94	104.82	Initial Hydro-static
1	16.58	104.57	Open To Flow (1)
31	22.31	104.74	Shut-In(1)
60	492.91	104.86	End Shut-In(1)
60	23.70	104.84	Open To Flow (2)
90	26.29	105.12	Shut-In(2)
120	464.34	105.19	End Shut-In(2)
120	1487.88	105.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	MUD/ 100%M	0.35

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation
 150 N. Main Ste. 905
 Wichita KS 67202
 ATTN: Bob O'Dell

14-11s-18w Ellis, KS
Lynn #1-14
 Job Ticket: 54433 **DST#: 1**
 Test Start: 2013.09.08 @ 10:45:00

GENERAL INFORMATION:

Formation: Topeka

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:30

Time Test Ended: 16:18:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel/Brannan Lo

Unit No: 67

Interval: 3044.00 ft (KB) To 3070.00 ft (KB) (TVD)

Reference Elevations: 1913.00 ft (KB)

Total Depth: 3070.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches **Hole Condition:** Fair

KB to GR/CF: 7.00 ft

Serial #: 8167

Inside

Press @ Run Depth: psig @ 3067.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.08

End Date:

2013.09.08

Last Calib.:

2013.09.08

Start Time: 10:45:01

End Time:

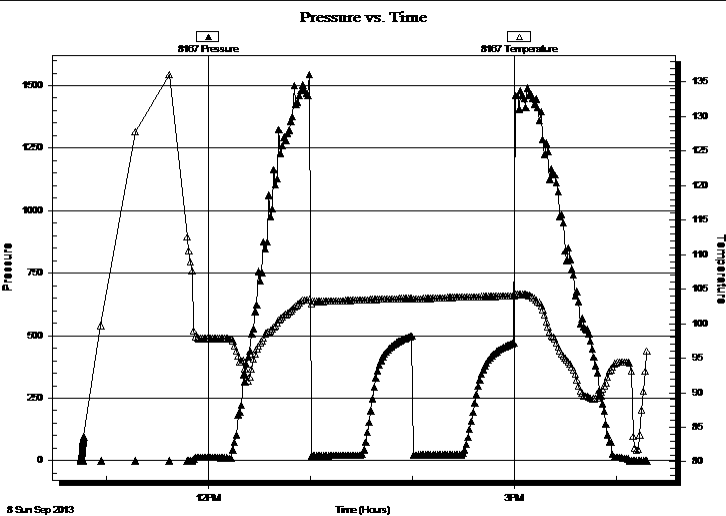
16:18:00

Time On Btm:

Time Off Btm:

TEST COMMENT:
 30- I.F.- Weak surface blow died in 1 min
 30- I.S.I. No blow back
 30- F.F. No blow
 30- F.S.I. No blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	MUD/ 100%M	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 54433

DST#: 1

ATTN: Bob O'Dell

Test Start: 2013.09.08 @ 10:45:00

Tool Information

Drill Pipe:	Length: 3039.00 ft	Diameter: 3.80 inches	Volume: 42.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 42.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3044.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 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			3017.00	
Shut In Tool	5.00			3022.00	
Hydraulic tool	5.00			3027.00	
Jars	5.00			3032.00	
Safety Joint	2.00			3034.00	
Packer	5.00			3039.00	28.00 Bottom Of Top Packer
Packer	5.00			3044.00	
Stubb	1.00			3045.00	
Perforations	22.00			3067.00	
Recorder	0.00	6625	Outside	3067.00	
Recorder	0.00	8167	Inside	3067.00	
Bullnose	3.00			3070.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 54433

DST#: 1

ATTN: Bob O'Dell

Test Start: 2013.09.08 @ 10:45:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	MUD / 100%M	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

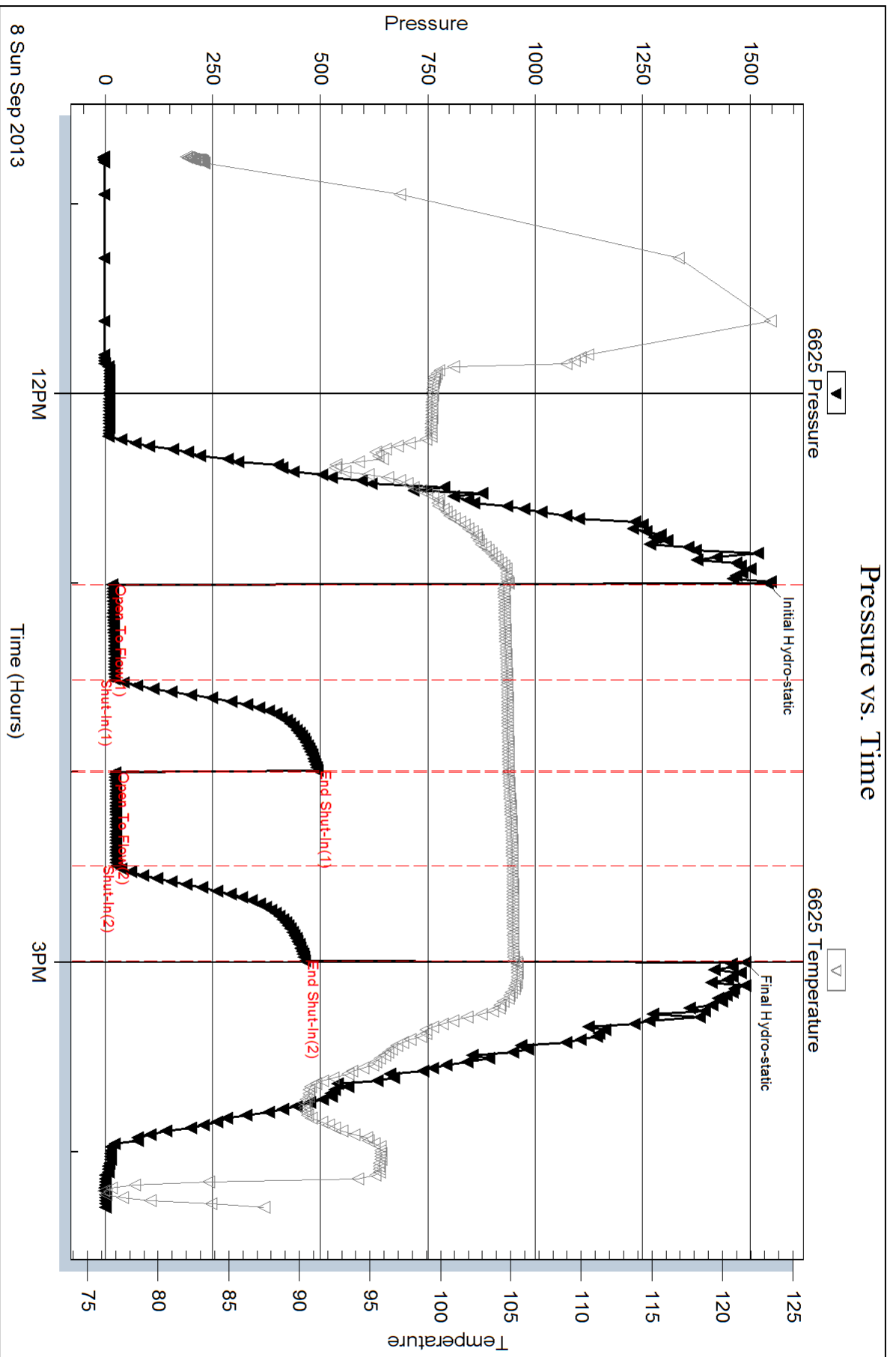
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



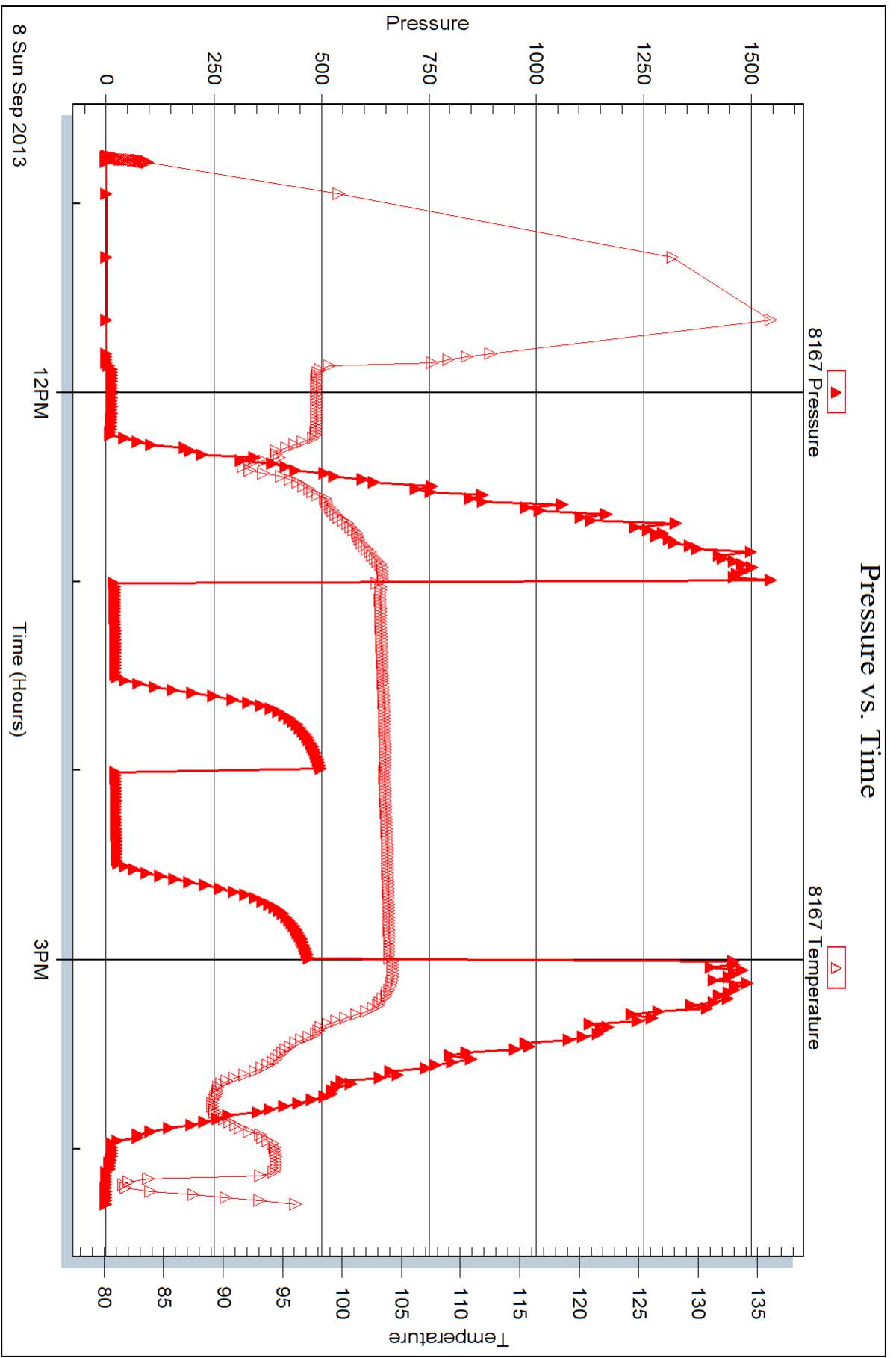
Serial #: 8167

Inside

Eagle Creek Corporation

Lynn #1-14

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

150 N. Main Ste. 905
Wichita KS 67202

ATTN: Bob O'Dell

Lynn #1-14

14-11s-18w Ellis,KS

Start Date: 2013.09.08 @ 23:57:00

End Date: 2013.09.09 @ 05:13:30

Job Ticket #: 54434 DST #: 2

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

Printed: 2013.09.13 @ 10:34:04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 54434

DST#: 2

ATTN: Bob O'Dell

Test Start: 2013.09.08 @ 23:57:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:39:00

Time Test Ended: 05:13:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel/Brannan Lo

Unit No: 67

Interval: 3091.00 ft (KB) To 3130.00 ft (KB) (TVD)

Reference Elevations: 1913.00 ft (KB)

Total Depth: 3130.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6625 Outside

Press @ Run Depth: 19.86 psig @ 3126.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.08

End Date:

2013.09.09

Last Calib.:

2013.09.09

Start Time: 23:57:01

End Time:

05:13:30

Time On Btm:

2013.09.09 @ 01:37:00

Time Off Btm:

2013.09.09 @ 03:43:30

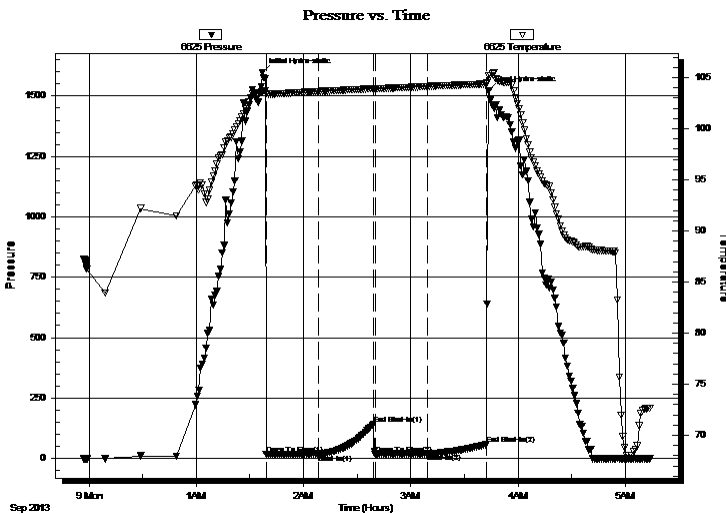
TEST COMMENT: 30- IF - Weak Surface blow died in 15 sec.

30- ISI - No blow back

30- FF - No blow

30- FSI - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.55	103.68	Initial Hydro-static
2	16.86	103.46	Open To Flow (1)
32	19.02	103.64	Shut-In(1)
62	141.72	103.92	End Shut-In(1)
63	18.38	103.92	Open To Flow (2)
92	19.86	104.14	Shut-In(2)
125	57.88	104.37	End Shut-In(2)
127	1521.17	105.14	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	M, 100% M	0.07

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation

14-11s-18w Ellis, KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 54434

DST#: 2

ATTN: Bob O'Dell

Test Start: 2013.09.08 @ 23:57:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:39:00

Time Test Ended: 05:13:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel/Brannan Lo

Unit No: 67

Interval: 3091.00 ft (KB) To 3130.00 ft (KB) (TVD)

Reference Elevations: 1913.00 ft (KB)

Total Depth: 3130.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8167 Inside

Press @ Run Depth: psig @ 3126.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.08

End Date:

2013.09.09

Last Calib.:

2013.09.09

Start Time: 23:57:01

End Time:

05:13:30

Time On Btm:

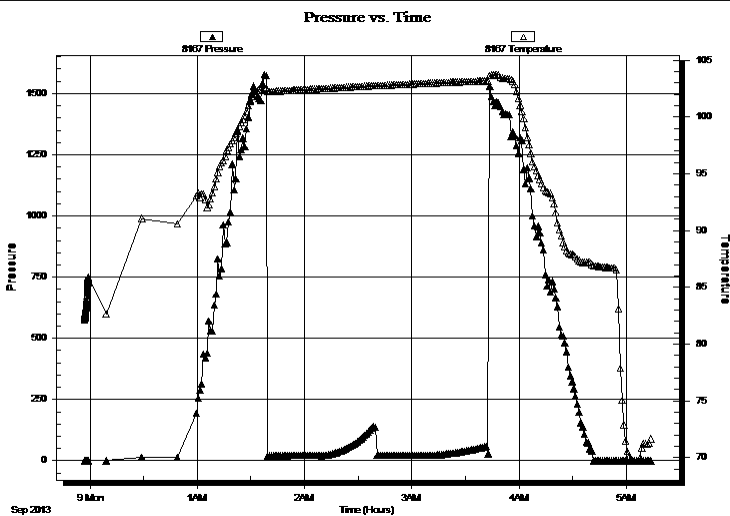
Time Off Btm:

TEST COMMENT: 30- IF - Weak Surface blow died in 15 sec.

30- ISI - No blow back

30- FF - No blow

30- FSI - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M, 100% M	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 54434

DST#: 2

ATTN: Bob O'Dell

Test Start: 2013.09.08 @ 23:57:00

Tool Information

Drill Pipe:	Length: 3071.00 ft	Diameter: 3.80 inches	Volume: 43.08 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 38000.00 lb
		Total Volume: 43.08 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3091.00 ft			Final 36500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	67.00 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			3064.00	
Shut In Tool	5.00			3069.00	
Hydraulic tool	5.00			3074.00	
Jars	5.00			3079.00	
Safety Joint	2.00			3081.00	
Packer	5.00			3086.00	28.00 Bottom Of Top Packer
Packer	5.00			3091.00	
Stubb	1.00			3092.00	
Perforations	2.00			3094.00	
Change Over Sub	1.00			3095.00	
Drill Pipe	31.00			3126.00	
Recorder	0.00	6625	Outside	3126.00	
Recorder	0.00	8167	Inside	3126.00	
Change Over Sub	1.00			3127.00	
Bullnose	3.00			3130.00	39.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 54434

DST#: 2

ATTN: Bob O'Dell

Test Start: 2013.09.08 @ 23:57:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M, 100% M	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

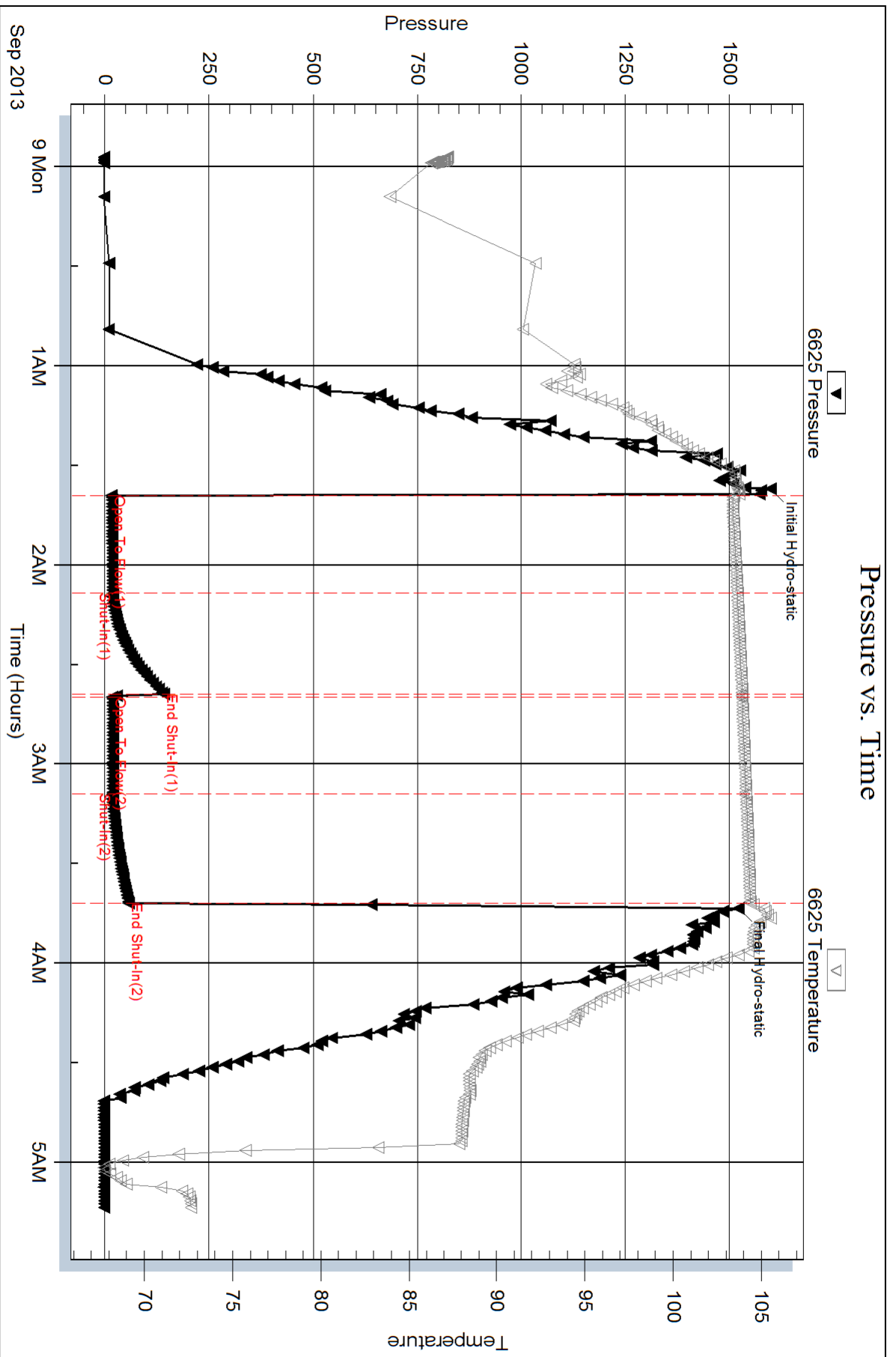
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



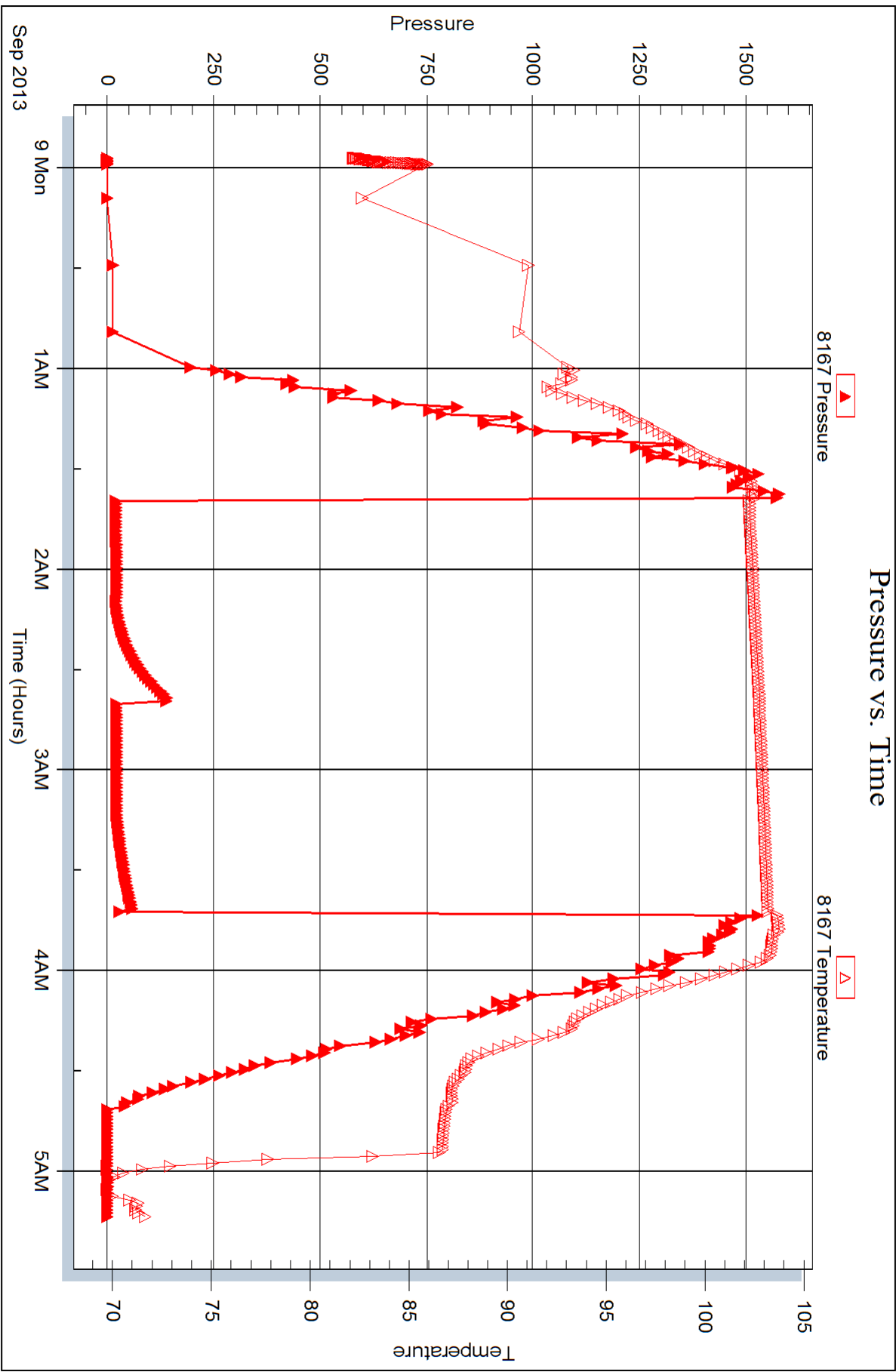
Serial #: 8167

Inside

Eagle Creek Corporation

Lynn #1-14

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

150 N. Main Ste. 905
Wichita KS 67202

ATTN: Bob O'Dell

Lynn #1-14

14-11s-18w Ellis,KS

Start Date: 2013.09.09 @ 17:51:49

End Date: 2013.09.09 @ 22:03:19

Job Ticket #: 041761 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.13 @ 10:31:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation
 150 N. Main Ste. 905
 Wichita KS 67202
 ATTN: Bob O'Dell

14-11s-18w Ellis,KS
Lynn #1-14
 Job Ticket: 041761 **DST#: 3**
 Test Start: 2013.09.09 @ 17:51:49

GENERAL INFORMATION:

Formation: **LKC E-F-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:53:49
 Time Test Ended: 22:03:19
 Interval: **3203.00 ft (KB) To 3234.00 ft (KB) (TVD)**
 Total Depth: 3234.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 67
 Reference Elevations: 1913.00 ft (KB)
 1906.00 ft (CF)
 KB to GR/CF: 7.00 ft

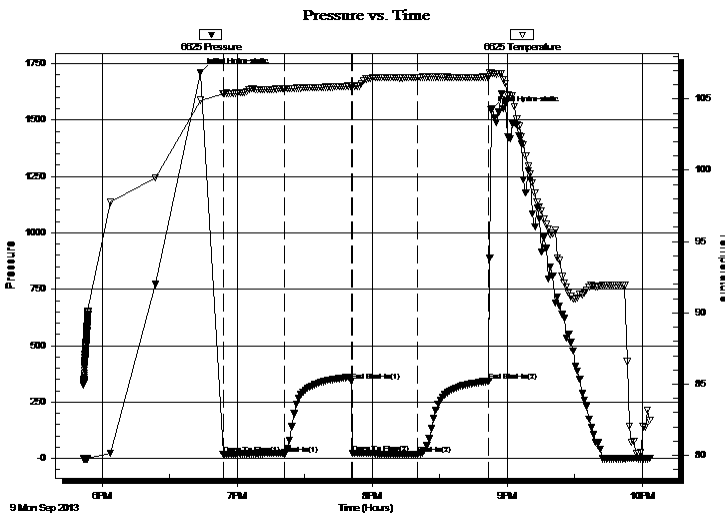
Serial #: 6625

Outside

Press @ Run Depth: 19.91 psig @ 3207.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.09 End Date: 2013.09.09 Last Calib.: 2013.09.09
 Start Time: 17:51:50 End Time: 22:03:19 Time On Btm: 2013.09.09 @ 18:43:49
 Time Off Btm: 2013.09.09 @ 20:52:49

TEST COMMENT: IFP=Weak surface blow
 ISI=Dead no blow back
 FFP=Dead no blow
 FSI=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.51	104.92	Initial Hydro-static
10	19.18	105.36	Open To Flow (1)
37	20.10	105.73	Shut-In(1)
67	341.52	105.90	End Shut-In(1)
68	21.83	105.89	Open To Flow (2)
97	19.91	106.50	Shut-In(2)
128	342.49	106.54	End Shut-In(2)
129	1544.31	106.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.21

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation
 150 N. Main Ste. 905
 Wichita KS 67202
 ATTN: Bob O'Dell

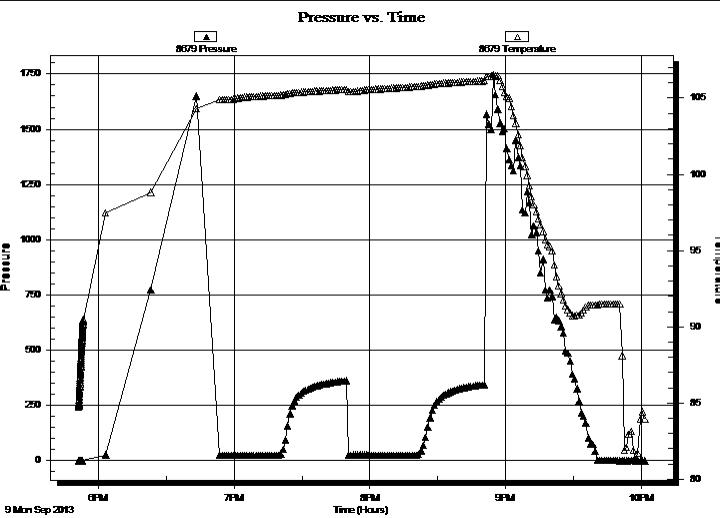
14-11s-18w Ellis,KS
Lynn #1-14
 Job Ticket: 041761 **DST#: 3**
 Test Start: 2013.09.09 @ 17:51:49

GENERAL INFORMATION:

Formation: **LKC E-F-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:53:49
 Time Test Ended: 22:03:19
Interval: 3203.00 ft (KB) To 3234.00 ft (KB) (TVD)
 Total Depth: 3234.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 67
 Reference Elevations: 1913.00 ft (KB)
 1906.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8679 Inside
 Press @ Run Depth: psig @ 3207.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.09 End Date: 2013.09.09 Last Calib.: 2013.09.09
 Start Time: 17:51:06 End Time: 22:02:05 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP=Weak surface blow
 ISI=Dead no blow back
 FFP=Dead no blow
 FSI=Dead no blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	Mud	0.21

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 041761

DST#: 3

ATTN: Bob O'Dell

Test Start: 2013.09.09 @ 17:51:49

Tool Information

Drill Pipe:	Length: 3197.00 ft	Diameter: 3.80 inches	Volume: 44.85 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 44.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3203.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	59.00 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			3176.00	
Shut In Tool	5.00			3181.00	
Hydraulic tool	5.00			3186.00	
Jars	5.00			3191.00	
Safety Joint	2.00			3193.00	
Packer	5.00			3198.00	28.00 Bottom Of Top Packer
Packer	5.00			3203.00	
Stubb	1.00			3204.00	
Perforations	3.00			3207.00	
Recorder	0.00	6625	Outside	3207.00	
Recorder	0.00	8679	Inside	3207.00	
Perforations	24.00			3231.00	
Bullnose	3.00			3234.00	31.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 041761

DST#: 3

ATTN: Bob O'Dell

Test Start: 2013.09.09 @ 17:51:49

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

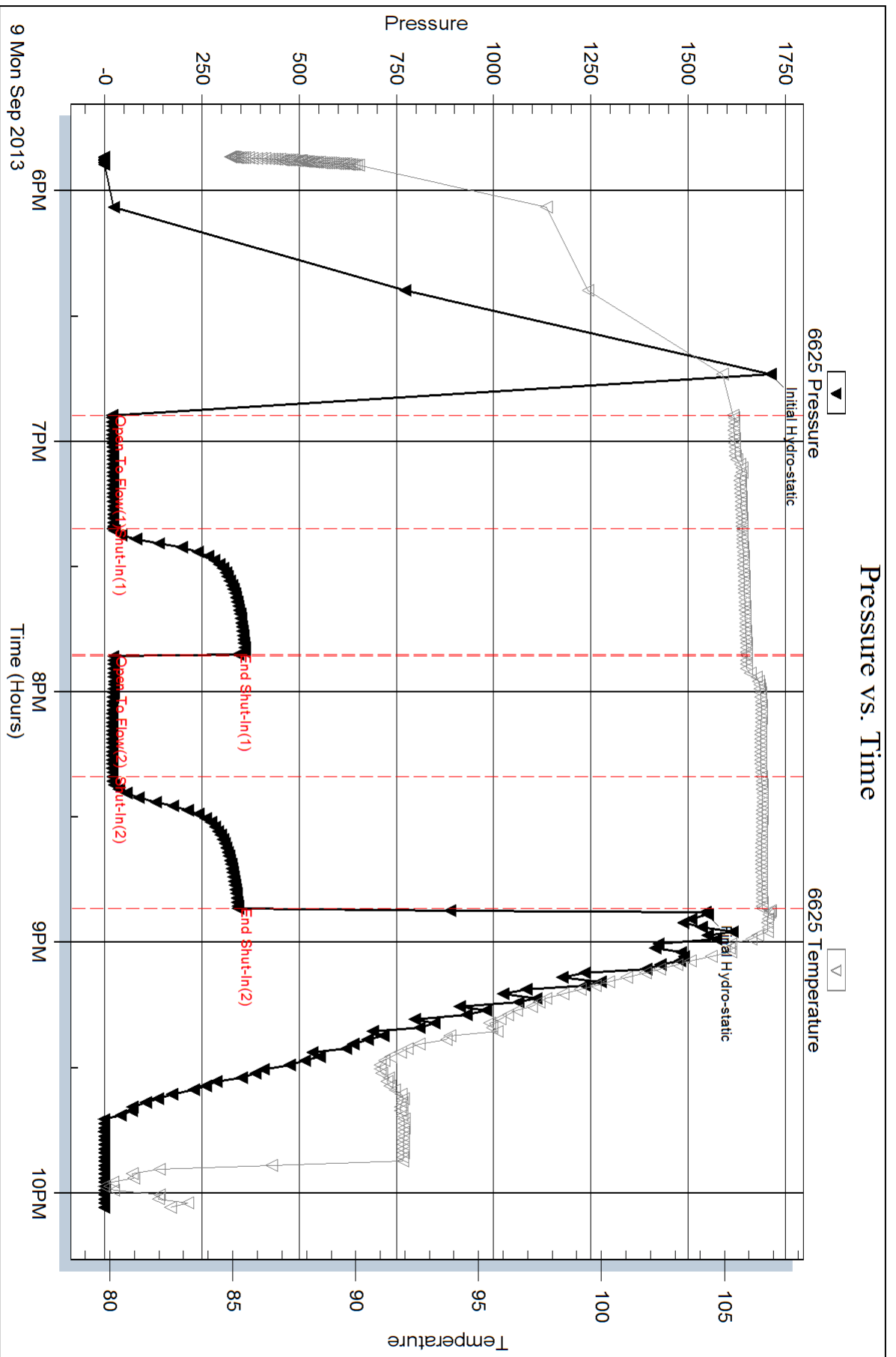
Recovery Comments:

Serial #: 6625

Outside Eagle Creek Corporation

Lynn #1-14

DST Test Number: 3



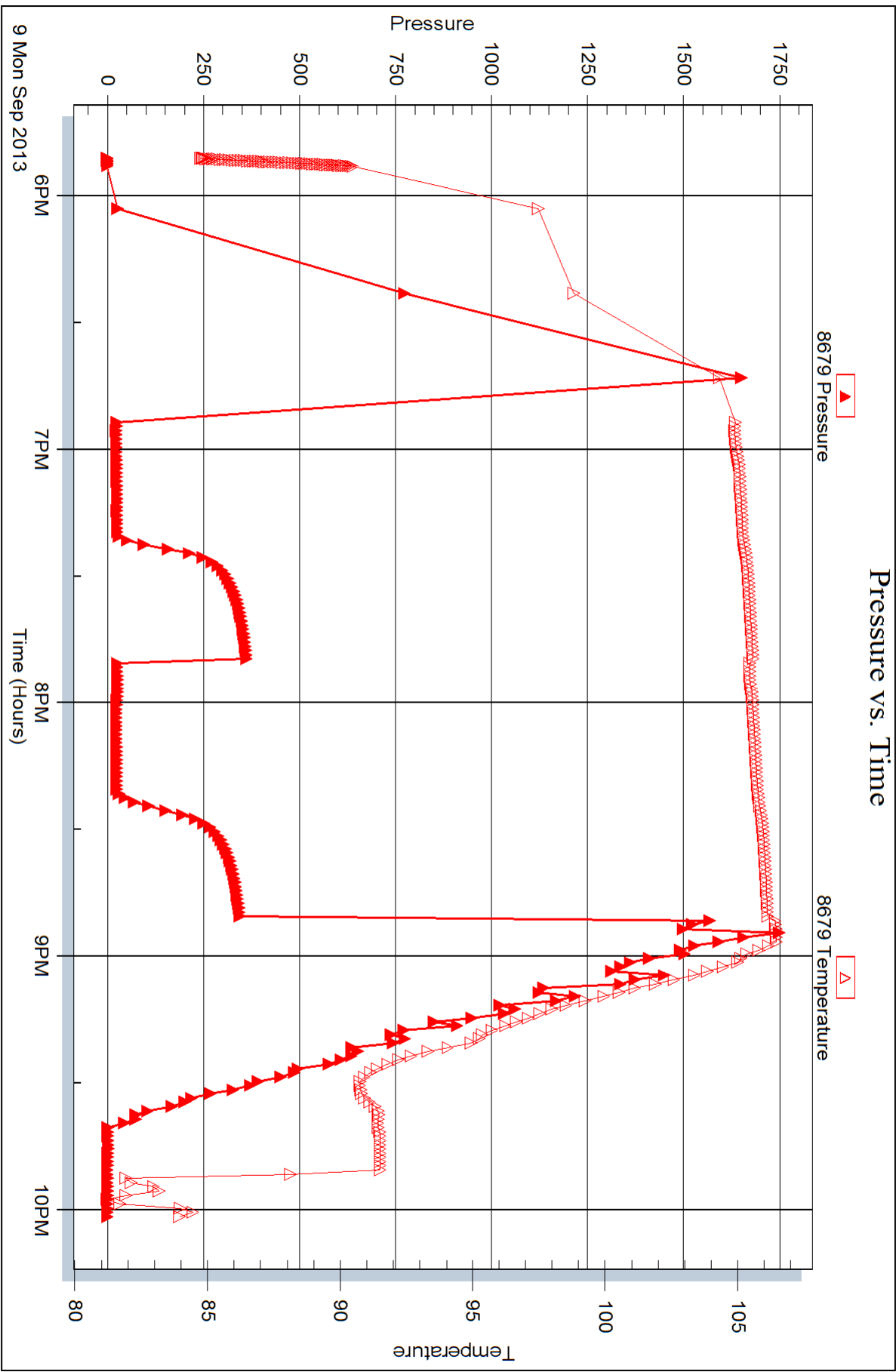
Serial #: 8679

Inside

Eagle Creek Corporation

Lynn #1-14

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

150 N. Main Ste. 905
Wichita KS 67202

ATTN: Bob O'Dell

Lynn #1-14

14-11s-18w Ellis,KS

Start Date: 2013.09.10 @ 20:40:45

End Date: 2013.09.11 @ 04:20:45

Job Ticket #: 041762 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.13 @ 10:30:22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

ATTN: Bob O'Dell

Job Ticket: 041762

DST#: 4

Test Start: 2013.09.10 @ 20:40:45

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:00:15

Time Test Ended: 04:20:45

Test Type: Conventional Bottom Hole (Reset)

Tester: BOB HAMEL / BRANNAN

Unit No: 67

Interval: 3455.00 ft (KB) To 3470.00 ft (KB) (TVD)

Reference Elevations: 1913.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD)

1906.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6625 Outside

Press @ Run Depth: 749.87 psig @ 3457.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.10

End Date:

2013.09.11

Last Calib.:

2013.09.11

Start Time: 20:40:46

End Time:

04:20:45

Time On Btm:

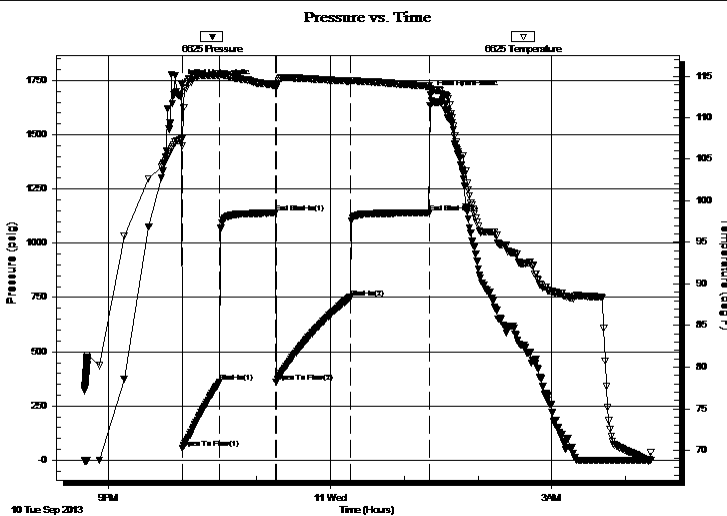
2013.09.10 @ 21:59:45

Time Off Btm:

2013.09.11 @ 01:21:45

TEST COMMENT: IFP=Strong blow BOB in 2 1/2 min
ISI=Dead no blow back
FFP=Strong blow BOB in 3 min
FSI=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.20	107.41	Initial Hydro-static
1	53.72	106.60	Open To Flow (1)
31	360.27	115.01	Shut-In(1)
76	1138.81	113.85	End Shut-In(1)
77	359.73	113.62	Open To Flow (2)
137	749.87	114.38	Shut-In(2)
201	1139.10	113.78	End Shut-In(2)
202	1686.31	113.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1134.00	MW with a scum of oil 5%M 95%W	15.91
514.00	SGOCMW 5%G 5%O 40%M 50%W	7.21
0.00	189-GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 041762

DST#: 4

ATTN: Bob O'Dell

Test Start: 2013.09.10 @ 20:40:45

Tool Information

Drill Pipe:	Length: 3452.00 ft	Diameter: 3.80 inches	Volume: 48.42 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 48.42 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3455.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Change Over Sub	1.00			3428.00	
Shut In Tool	5.00			3433.00	
Hydraulic tool	5.00			3438.00	
Jars	5.00			3443.00	
Safety Joint	2.00			3445.00	
Packer	5.00			3450.00	28.00 Bottom Of Top Packer
Packer	5.00			3455.00	
Stubb	1.00			3456.00	
Perforations	1.00			3457.00	
Recorder	0.00	6625	Outside	3457.00	
Recorder	0.00	8679	Inside	3457.00	
Perforations	10.00			3467.00	
Bullnose	3.00			3470.00	15.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation

14-11s-18w Ellis,KS

150 N. Main Ste. 905
Wichita KS 67202

Lynn #1-14

Job Ticket: 041762

DST#: 4

ATTN: Bob O'Dell

Test Start: 2013.09.10 @ 20:40:45

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1134.00	MW w ith a scum of oil 5%M 95%W	15.907
514.00	SGOCMW 5%G 5%O 40%M 50%W	7.210
0.00	189-GIP	0.000

Total Length: 1648.00 ft Total Volume: 23.117 bbl

Num Fluid Samples: 0

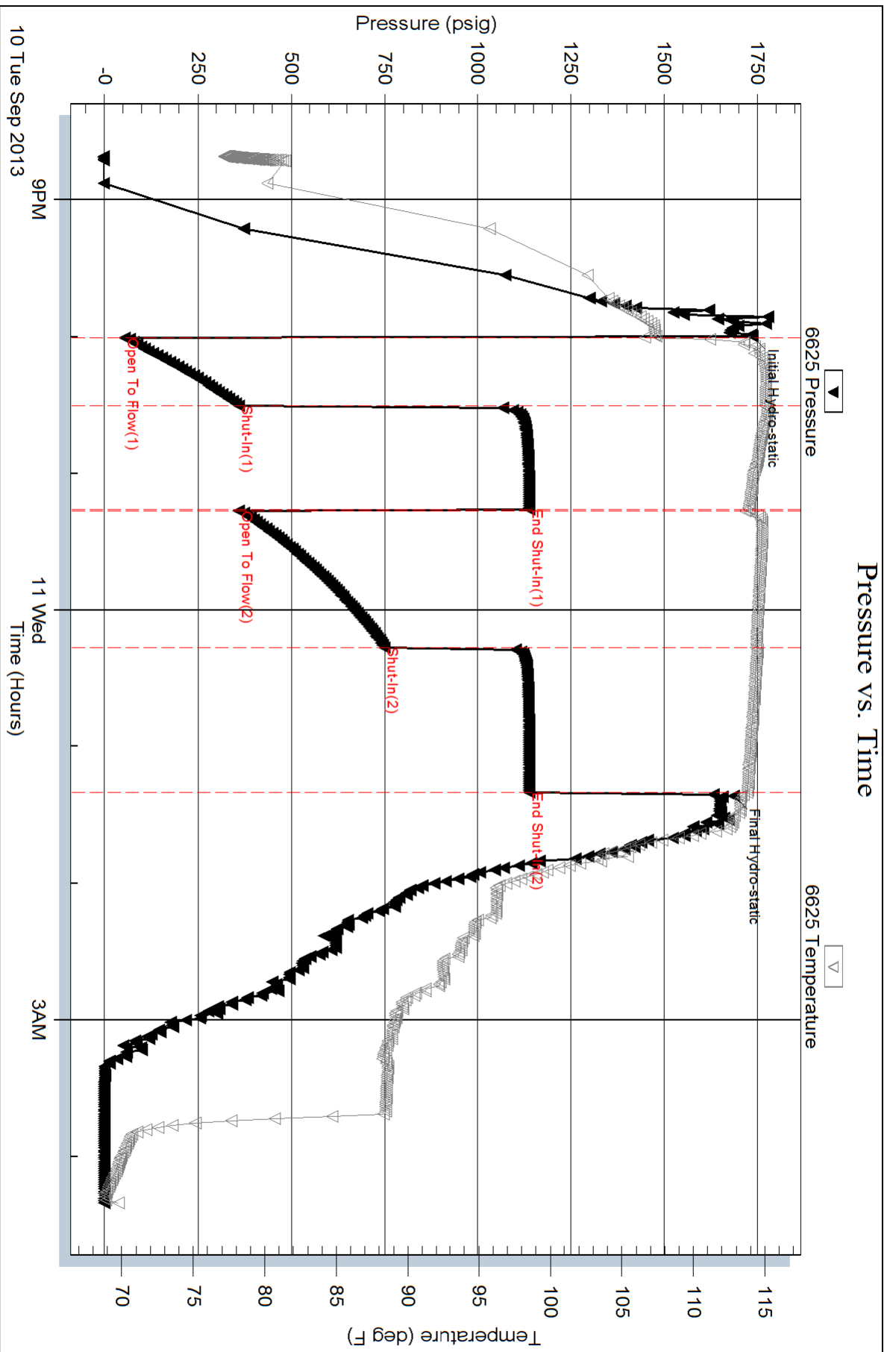
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



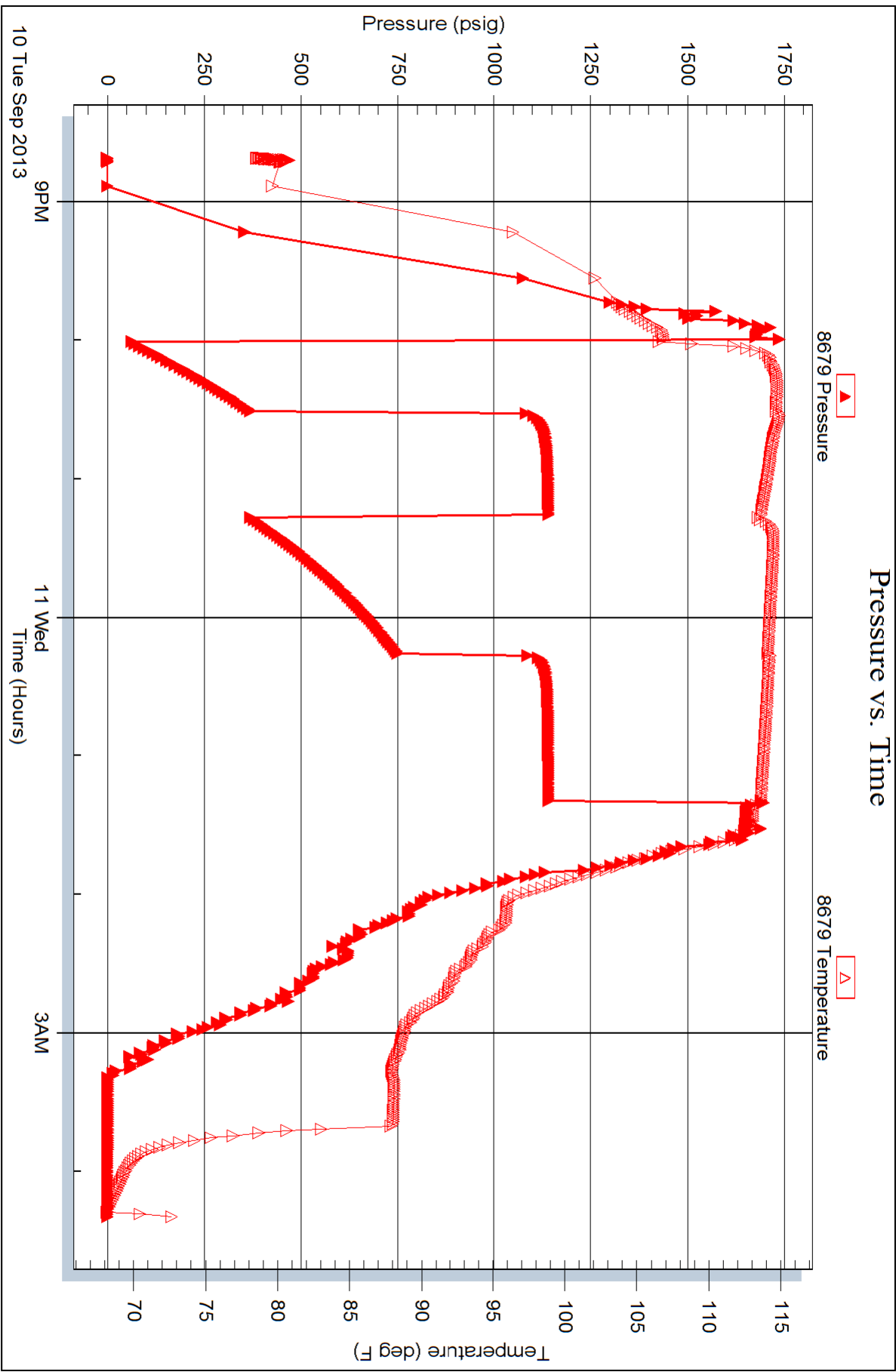
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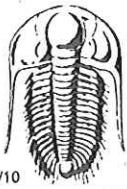
Inside

Eagle Creek Corporation

Lynn #1-14

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54433

Well Name & No. Lynn # 1-14 Test No. 1 Date 9-8-13
 Company Eagle Creek Corporation Elevation 1911 KB 1906 GL
 Address 150 N. Main Ste. 905 Wichita KS. 67202
 Co. Rep / Geo. Bob Odell Rig Southwind 3
 Location: Sec. 14 Twp. 11 S Rge. 18 W Co. E11.3 State KS

Interval Tested 3044-3070 Zone Tested Superior
 Anchor Length 26' Drill Pipe Run 3,039 Mud Wt. 9.3
 Top Packer Depth 3039 Drill Collars Run --- Vis 51
 Bottom Packer Depth 3044 Wt. Pipe Run --- WL 8.0
 Total Depth 3070 Chlorides 3,600 ppm System LCM 3

Blow Description 30-T.F.-W.S.B, DIED in 1 min.
30-T.S.T. No B.B.
30-F.F. No Blow / No Build
30-F.S.T. No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>M</u>			<u>100</u>	

Rec Total 254 BHT 105 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1,539 Test 1150 T-On Location 10:05
 (B) First Initial Flow 17 Jars 250 T-Started 10:45
 (C) First Final Flow 22 Safety Joint 75 T-Open 13:01
 (D) Initial Shut-In 493 Circ Sub --- T-Pulled 15:01
 (E) Second Initial Flow 24 Hourly Standby --- T-Out 16:18
 (F) Second Final Flow 26 Mileage 48 Rt. 40rt 62 Comments (Thank-You)
 (G) Final Shut-In 464 Sampler ---
 (H) Final Hydrostatic 1488 Straddle --- Ruined Shale Packer
 Shale Packer --- Ruined Packer
 Extra Packer --- Extra Copies ---
 Extra Recorder --- Sub Total 0
 Day Standby --- Total 1537
 Accessibility --- MP/DST Disc't ---

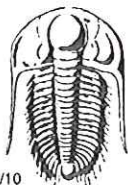
Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Sub Total 1537

Approved By _____

Our Representative Robert H. Brown

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54434

Well Name & No. Lynn #1-14 Test No. 2 Date 9-8-13
 Company Eagle Creek Corporation Elevation 1918 KB 1906 GL
 Address 150 N. main ste 905 Wichita K.S. 67202
 Co. Rep / Geo. Bob Odell Rig Southwind Rig 3
 Location: Sec. 14 Twp. 11 S Rge. 18 W Co. Ellis State KS

Interval Tested 3091 - 3130 Zone Tested toronto
 Anchor Length 39 Drill Pipe Run 3071 Mud Wt. 9.3
 Top Packer Depth ~~3086~~ 3086 Drill Collars Run _____ Vis 51
 Bottom Packer Depth ~~3091~~ 3091 Wt. Pipe Run _____ WL 8.0
 Total Depth 3130 Chlorides 3,600 ppm System LCM 3

Blow Description 30-Initial flow - W.S.B. Died in 15 sec.
30-Initial shut in - No B.B.
30-Final flow - No Blow / no Build
30-Final shut in - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 Total 5 ft. BHT 104° Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1,598 Test 1150 T-On Location 23:55:00
 (B) First Initial Flow 17 Jars 250 T-Started 23:57
 (C) First Final Flow 19 Safety Joint 75 T-Open 01:39
 (D) Initial Shut-In 142 Circ Sub _____ T-Pulled 03:39
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 05:14
 (F) Second Final Flow 20 Mileage 48 Rt 62 Comments (Thank-you)
 (G) Final Shut-In 58 Sampler _____
 (H) Final Hydrostatic 1521 Straddle _____
 Shale Packer _____
 Ruined Packer _____
 Ruined Shale Packer _____
 Extra Copies _____

Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1537
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1537

Approved By _____ Our Representative Robt Harris / Braussen L

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 041761

Well Name & No. Lynn #1-14 Test No. 3 Date 9-9-13
 Company Eagle Creek Corporation Elevation 1913 KB 1906 GL
 Address 150 N Main STE 905 Wichita KS 67202
 Co. Rep / Geo. Bob O'Dell Rig Southwind #3
 Location: Sec. 14 Twp. 11s Rge. 18W Co. ELLIS State Ks

Interval Tested 3203 - 3234 Zone Tested Lansing - E, F, G
 Anchor Length 31 Drill Pipe Run 3197 Mud Wt. 9.3
 Top Packer Depth 3198 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3203 Wt. Pipe Run 0 WL 7.6
 Total Depth 3234 Chlorides 3600 ppm System LCM 3

Blow Description IF-Weak Surface Blow
ISI-Dead No Blow Back
FR-Dead No Blow
FSI-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MUD</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 107 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1712</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>17:25</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>17:51</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>18:50</u>
(D) Initial Shut-In <u>342</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>20:50</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:03</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage 40rt 62	Comments _____
(G) Final Shut-In <u>342</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1544</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1537</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1537</u>	

Approved By _____ Our Representative Jeff Brown

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 041762

Well Name & No. Lynn #1-14 Test No. 4 Date 9-10-13
 Company Eagle Creek Corporation Elevation 1913 KB 1906 GL
 Address 150 N Main Ste 905 Wichita KS 67202
 Co. Rep / Geo. Bob Odell Rig Southwind #3
 Location: Sec. 14 Twp. 11s Rge. 18W Co. ELLIS State KS

Interval Tested 3455 - 3470 Zone Tested ARBuckle
 Anchor Length 15 Drill Pipe Run 3452 Mud Wt. 9.4
 Top Packer Depth 3450 Drill Collars Run 0 Vis 65
 Bottom Packer Depth 3455 Wt. Pipe Run 0 WL 7.8
 Total Depth 3470 Chlorides 3500 ppm System LCM 2

Blow Description FF-Strong Blow Bob IN 2 1/2 min
FSI-Dead No Blow Back
FF-Strong Blow Bob IN 3 min
FSI-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1134</u>	<u>Feet of MW with A Scum of oil</u>			<u>95</u>	<u>5</u>
<u>514</u>	<u>Feet of SGOCMW</u>	<u>5</u>	<u>5</u>	<u>50</u>	<u>40</u>
<u> </u>	<u>Feet of 189-GIP</u>				
<u> </u>	<u>Feet of</u>				
<u> </u>	<u>Feet of</u>				

Rec Total 1648 BHT 114 Gravity _____ API RW. .205 @ 69.5° F Chlorides 34,000 ppm

(A) Initial Hydrostatic <u>1736</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>20:32</u>
(B) First Initial Flow <u>54</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:40</u>
(C) First Final Flow <u>360</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:00</u>
(D) Initial Shut-In <u>1139</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1:15</u>
(E) Second Initial Flow <u>360</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:20</u>
(F) Second Final Flow <u>750</u>	<input checked="" type="checkbox"/> Mileage <u>124</u>	Comments <u>Loaded Tool's @</u>
(G) Final Shut-In <u>1139</u>	<input type="checkbox"/> Sampler _____	<u>11:30 on 9-11-13</u>
(H) Final Hydrostatic <u>1686</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>600</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>600</u>	<input type="checkbox"/> Day Standby _____	Total <u>1599</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1599</u>	

Our Representative Jeff Brown

Approved By _____
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