



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave.
Russel, KS 67665

ATTN: Marc Downing

Schroeder Unit #1

14-6s-33w Thomas,KS

Start Date: 2016.07.06 @ 21:23:28

End Date: 2016.07.07 @ 05:10:58

Job Ticket #: 65480 DST #: 1

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

Printed: 2016.07.12 @ 08:34:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

ATTN: Marc Downing

Job Ticket: 65480

DST#: 1

Test Start: 2016.07.06 @ 21:23:28

GENERAL INFORMATION:

Formation: **LKC B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:07:58

Time Test Ended: 05:10:58

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 3996.00 ft (KB) To 4026.00 ft (KB) (TVD)

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4026.00 ft (KB) (TVD)

3084.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8875

Inside

Press@RunDepth: 183.18 psig @ 3997.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.06

End Date:

2016.07.07

Last Calib.:

2016.07.07

Start Time: 21:23:33

End Time:

05:10:57

Time On Btm:

2016.07.07 @ 00:07:28

Time Off Btm:

2016.07.07 @ 03:09:58

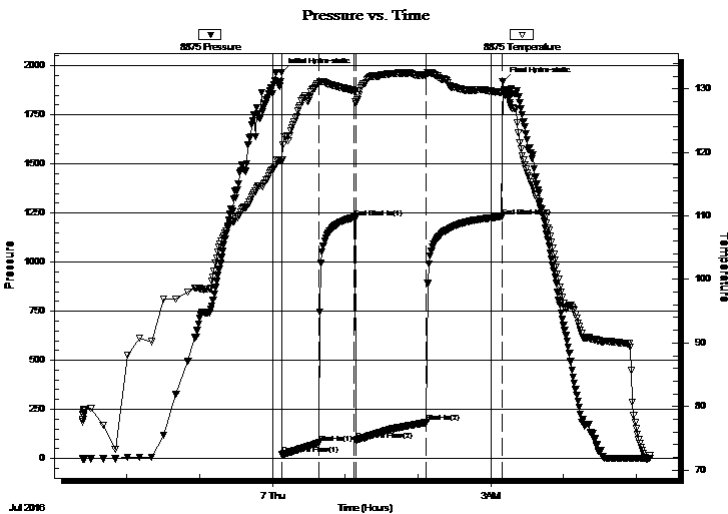
TEST COMMENT: IF: 1/4 blow built to 6" in 30 min.

IS: No return.

FF: BOB in 43 min.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.46	118.76	Initial Hydro-static
1	19.36	118.76	Open To Flow (1)
31	79.45	130.81	Shut-In(1)
60	1227.73	129.65	End Shut-In(1)
61	91.48	128.02	Open To Flow (2)
120	183.18	132.21	Shut-In(2)
182	1230.86	129.44	End Shut-In(2)
183	1921.22	129.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 95%w 5%m	0.93
204.00	nw 50%w 50%m	1.74

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

370 W Wichita Ave.
Russel, KS 67665

ATTN: Marc Downing

14-6s-33w Thomas, KS

Schroeder Unit #1

Job Ticket: 65480 **DST#: 1**

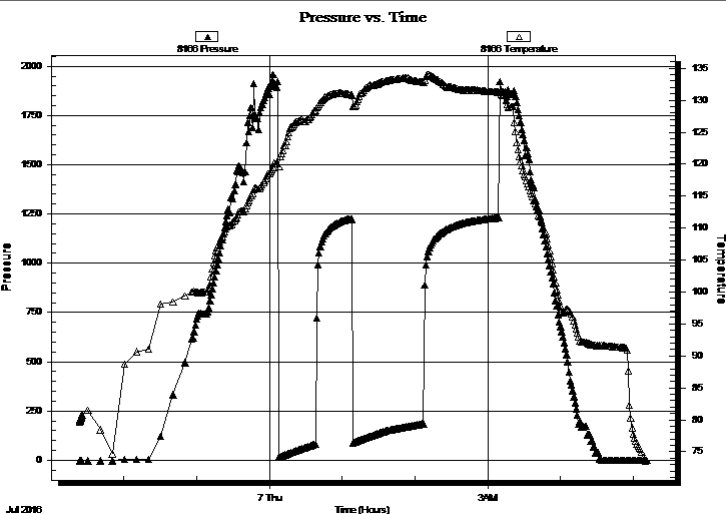
Test Start: 2016.07.06 @ 21:23:28

GENERAL INFORMATION:

Formation: **LKC B-C**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:07:58 Tester: Brandon Turley
 Time Test Ended: 05:10:58 Unit No: 79
Interval: 3996.00 ft (KB) To 4026.00 ft (KB) (TVD) Reference Elevations: 3092.00 ft (KB)
 Total Depth: 4026.00 ft (KB) (TVD) 3084.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8166 Outside
 Press@RunDepth: psig @ 3997.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.07.06 End Date: 2016.07.07 Last Calib.: 2016.07.07
 Start Time: 21:23:36 End Time: 05:11:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/4 blow built to 6" in 30 min.
 IS: No return.
 FF: BOB in 43 min.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 95%w 5%m	0.93
204.00	mw 50%w 50%m	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65480

DST#: 1

ATTN: Marc Downing

Test Start: 2016.07.06 @ 21:23:28

Tool Information

Drill Pipe:	Length: 3696.00 ft	Diameter: 3.80 inches	Volume: 51.85 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.25 inches	Volume: 1.53 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3996.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3977.00	
Shut In Tool	5.00			3982.00	
Hydraulic tool	5.00			3987.00	
Packer	5.00			3992.00	20.00 Bottom Of Top Packer
Packer	4.00			3996.00	
Stubb	1.00			3997.00	
Recorder	0.00	8875	Inside	3997.00	
Recorder	0.00	8166	Outside	3997.00	
Perforations	24.00			4021.00	
Bullnose	5.00			4026.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65480

DST#: 1

ATTN: Marc Downing

Test Start: 2016.07.06 @ 21:23:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

21000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	mcw 95%w 5%m	0.929
204.00	mw 50%w 50%m	1.741

Total Length: 393.00 ft Total Volume: 2.670 bbl

Num Fluid Samples: 0

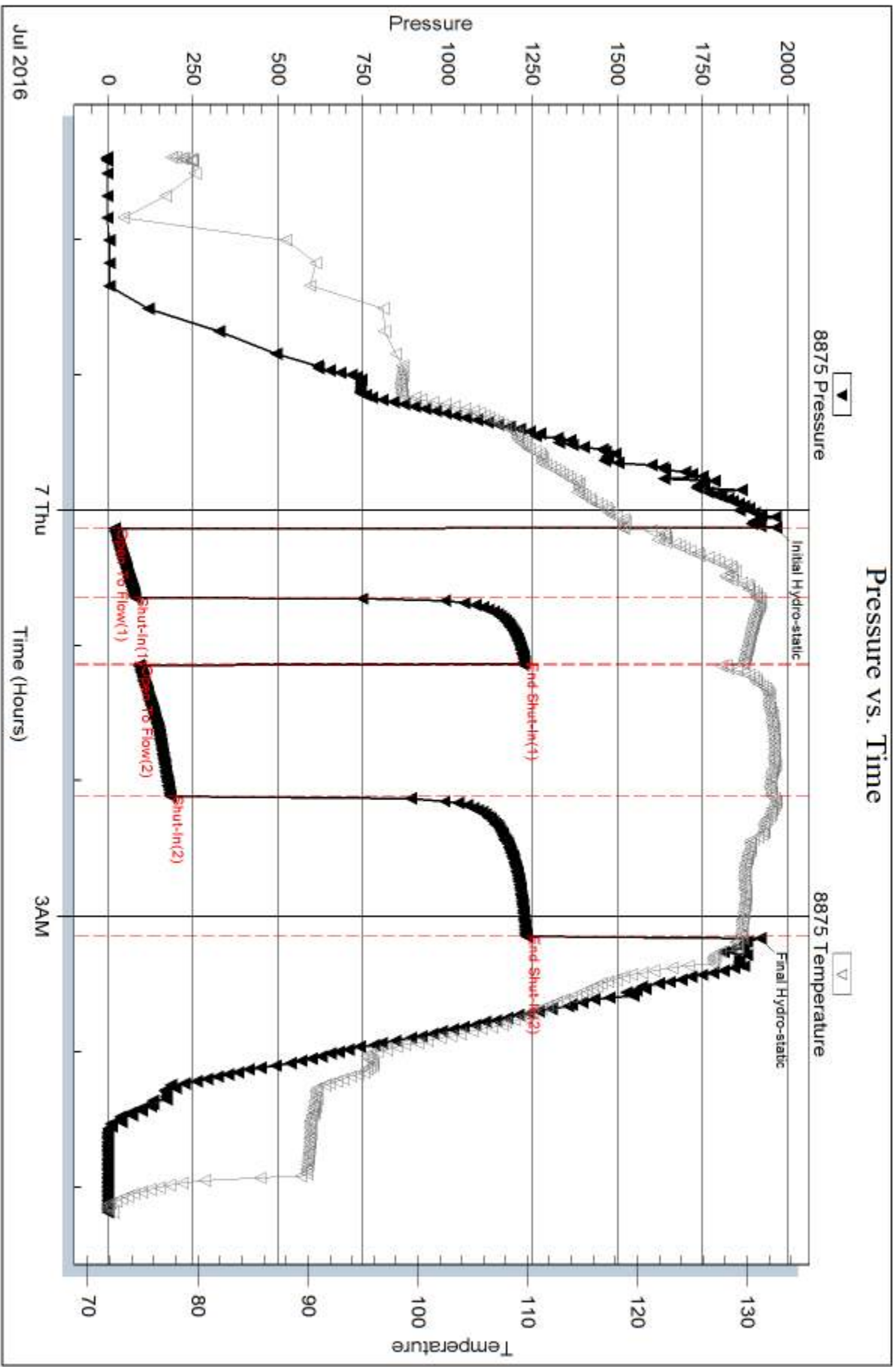
Num Gas Bombs: 0

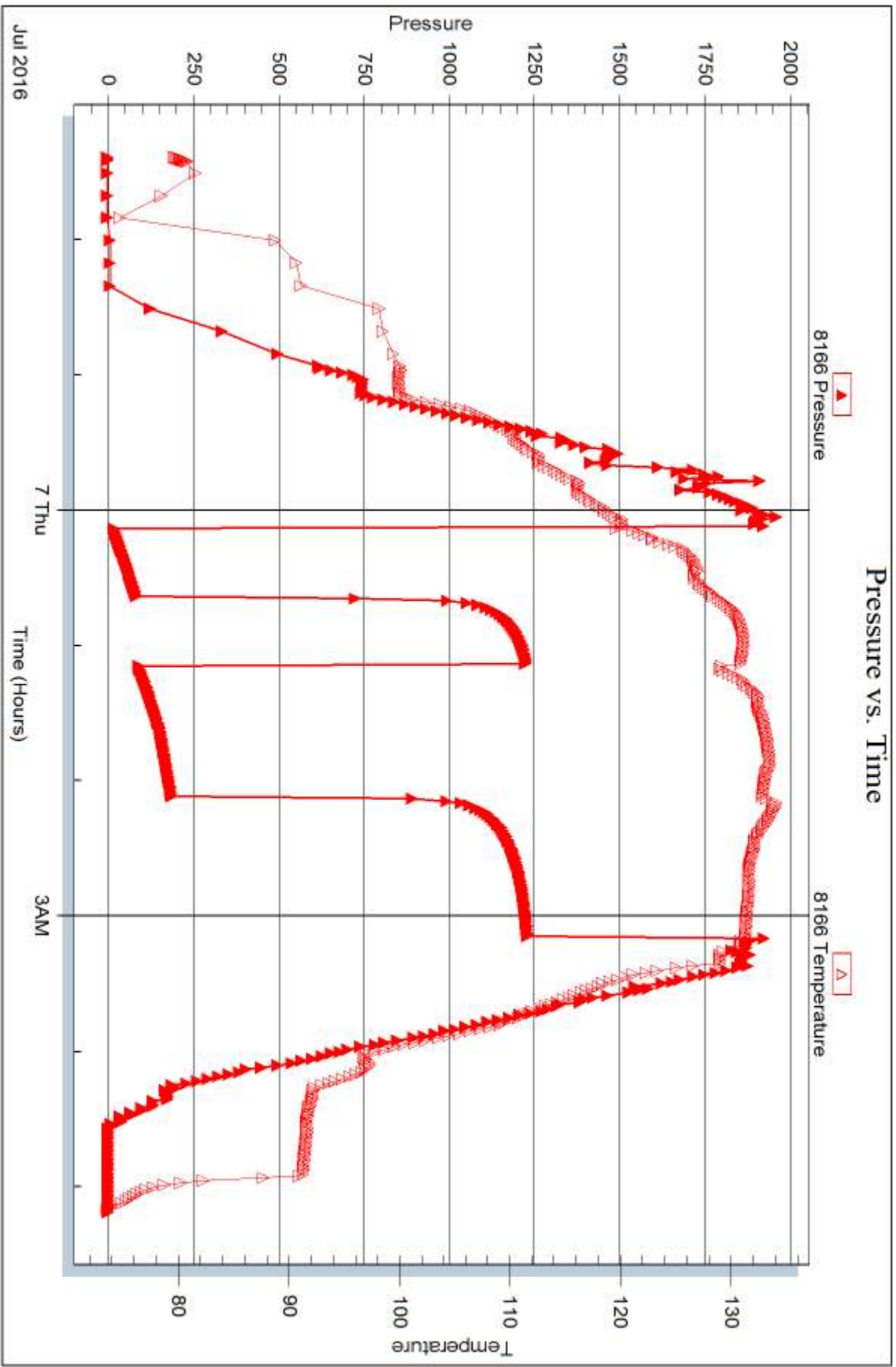
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .31@73=21000







DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave.
Russel, KS 67665

ATTN: Marc Downing

Schroeder Unit #1

14-6s-33w Thomas,KS

Start Date: 2016.07.07 @ 13:15:08

End Date: 2016.07.07 @ 20:21:08

Job Ticket #: 65481 DST #: 2

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

Printed: 2016.07.12 @ 08:33:38



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

ATTN: Marc Downing

Job Ticket: 65481

DST#: 2

Test Start: 2016.07.07 @ 13:15:08

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:29:38

Time Test Ended: 20:21:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4022.00 ft (KB) To 4045.00 ft (KB) (TVD)

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4045.00 ft (KB) (TVD)

3084.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8875

Inside

Press@RunDepth: 1119.48 psig @ 4023.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.07

End Date:

2016.07.07

Last Calib.:

2016.07.07

Start Time: 13:15:13

End Time:

20:21:07

Time On Btm:

2016.07.07 @ 15:28:08

Time Off Btm:

2016.07.07 @ 17:32:38

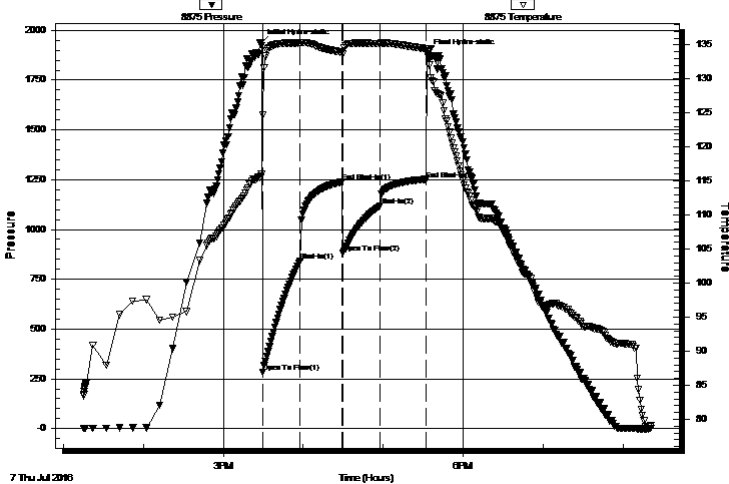
TEST COMMENT: IF: BOB in 30 sec.

IS: No return.

FF: BOB in 1 min.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1932.27	115.71	Initial Hydro-static
2	283.14	124.67	Open To Flow (1)
30	842.56	135.30	Shut-In(1)
61	1238.09	133.91	End Shut-In(1)
62	883.42	133.65	Open To Flow (2)
90	1119.48	135.24	Shut-In(2)
124	1251.98	134.43	End Shut-In(2)
125	1881.43	134.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2142.00	mcw 95%w 5%m	27.20
283.00	w ater 100%w	3.97

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65481

DST#: 2

ATTN: Marc Downing

Test Start: 2016.07.07 @ 13:15:08

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:29:38

Time Test Ended: 20:21:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4022.00 ft (KB) To 4045.00 ft (KB) (TVD)**

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4045.00 ft (KB) (TVD)

3084.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8166

Outside

Press@RunDepth: psig @ 4023.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.07

End Date:

2016.07.07

Last Calib.:

2016.07.07

Start Time: 13:15:43

End Time:

20:21:37

Time On Btm:

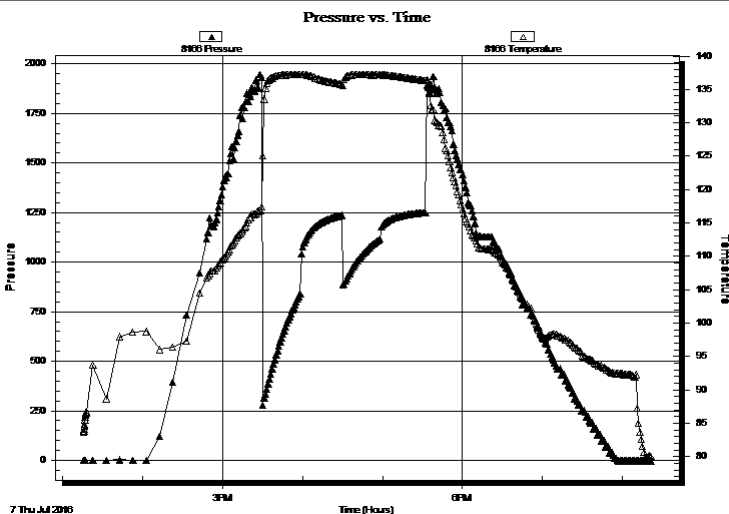
Time Off Btm:

TEST COMMENT: IF: BOB in 30 sec.

IS: No return.

FF: BOB in 1 min.

FS: No return.



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
2142.00	mcw 95%w 5%m	27.20
283.00	w ater 100%w	3.97

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65481

DST#: 2

ATTN: Marc Downing

Test Start: 2016.07.07 @ 13:15:08

Tool Information

Drill Pipe:	Length: 3696.00 ft	Diameter: 3.80 inches	Volume: 51.85 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.25 inches	Volume: 1.53 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4022.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4003.00	
Shut In Tool	5.00			4008.00	
Hydraulic tool	5.00			4013.00	
Packer	5.00			4018.00	20.00 Bottom Of Top Packer
Packer	4.00			4022.00	
Stubb	1.00			4023.00	
Recorder	0.00	8875	Inside	4023.00	
Recorder	0.00	8166	Outside	4023.00	
Perforations	17.00			4040.00	
Bullnose	5.00			4045.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65481

DST#: 2

ATTN: Marc Downing

Test Start: 2016.07.07 @ 13:15:08

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2142.00	mcw 95%w 5%m	27.204
283.00	water 100%w	3.970

Total Length: 2425.00 ft Total Volume: 31.174 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

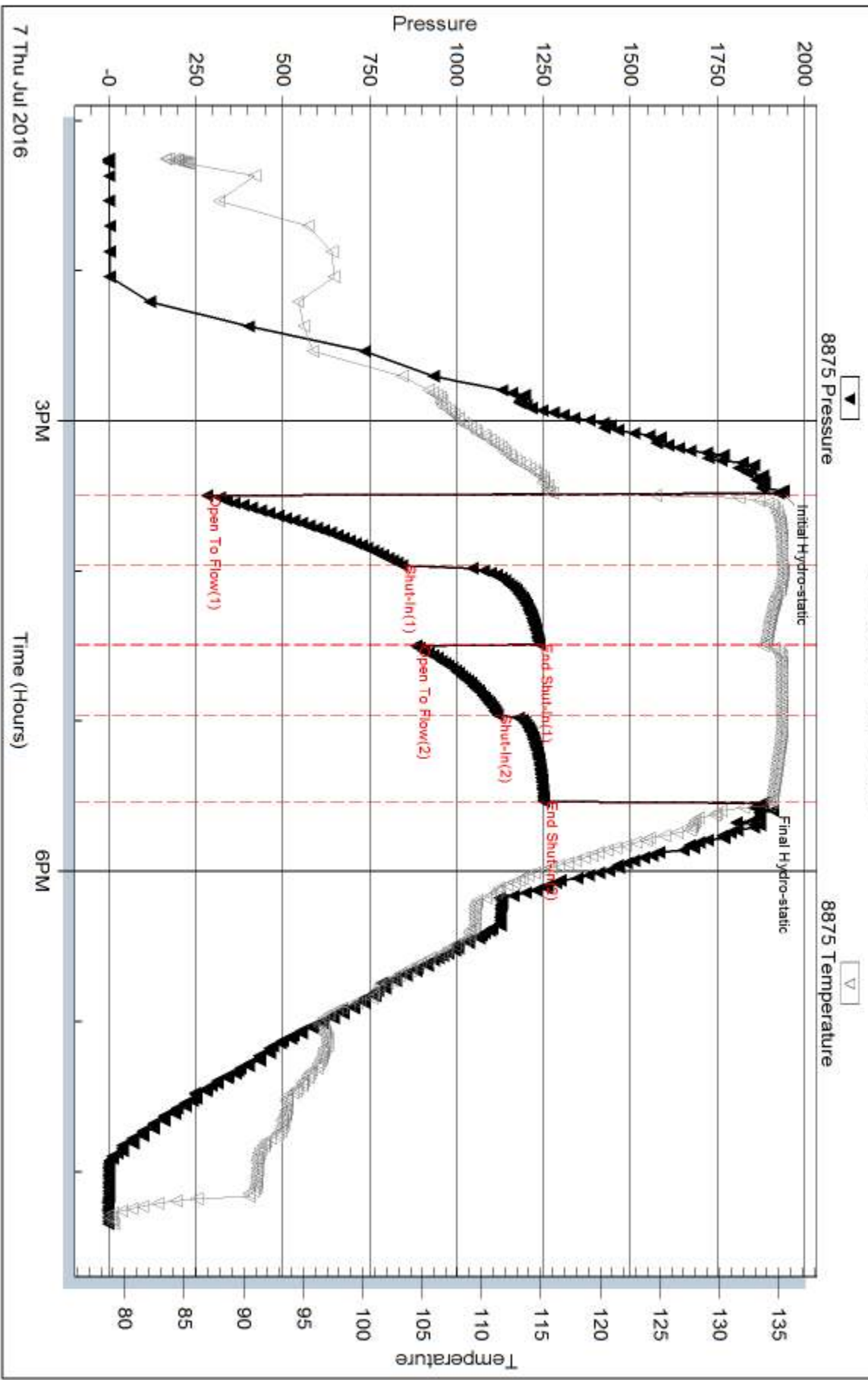
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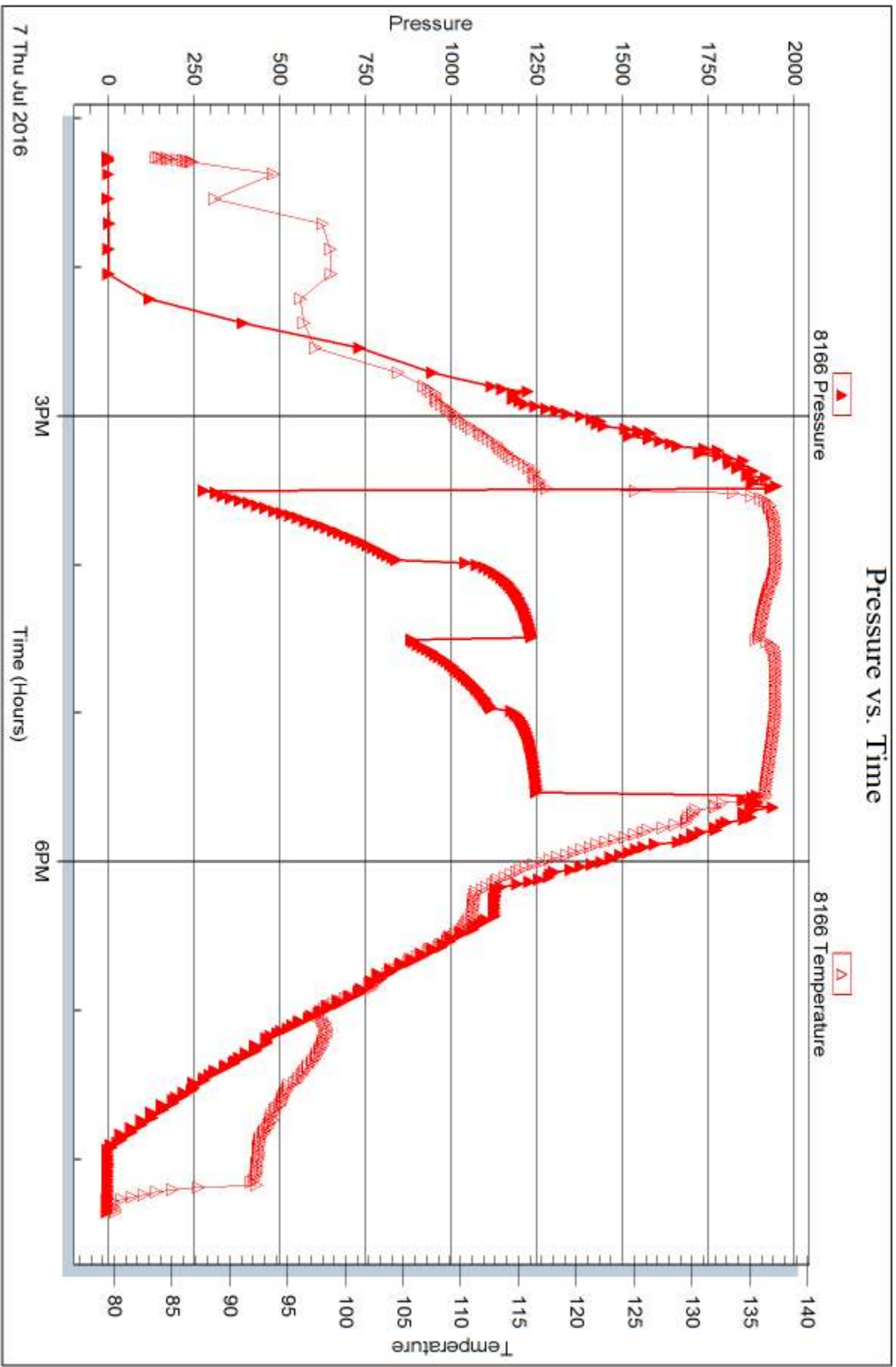
Laboratory Name:

Laboratory Location:

Recovery Comments: .19@97=26000

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave.
Russel, KS 67665

ATTN: Marc Downing

Schroeder Unit #1

14-6s-33w Thomas,KS

Start Date: 2016.07.08 @ 04:49:24

End Date: 2016.07.08 @ 11:03:24

Job Ticket #: 65482 DST #: 3

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

Printed: 2016.07.12 @ 08:33:11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

ATTN: Marc Downing

Job Ticket: 65482

DST#: 3

Test Start: 2016.07.08 @ 04:49:24

GENERAL INFORMATION:

Formation: **LKC F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:00:54

Time Test Ended: 11:03:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4043.00 ft (KB) To 4068.00 ft (KB) (TVD)

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4068.00 ft (KB) (TVD)

3084.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8166 Outside

Press@RunDepth: 13.80 psig @ 4044.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.08

End Date:

2016.07.08

Last Calib.:

2016.07.08

Start Time: 04:49:29

End Time:

11:03:23

Time On Btm:

2016.07.08 @ 07:00:24

Time Off Btm:

2016.07.08 @ 09:04:24

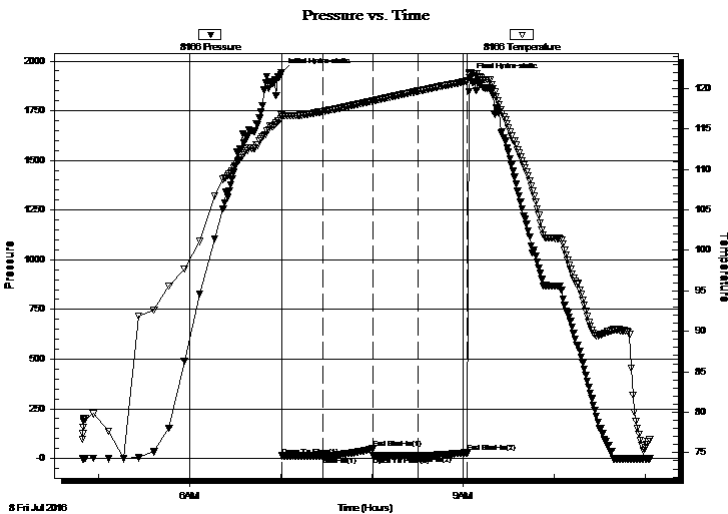
TEST COMMENT: IF: 1/4" blow died in 12 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.97	116.73	Initial Hydro-static
1	12.85	116.53	Open To Flow (1)
28	13.21	117.16	Shut-In(1)
60	49.05	118.47	End Shut-In(1)
61	13.35	118.48	Open To Flow (2)
90	13.80	119.67	Shut-In(2)
123	28.51	120.89	End Shut-In(2)
124	1915.77	121.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

ATTN: Marc Downing

Job Ticket: 65482

DST#: 3

Test Start: 2016.07.08 @ 04:49:24

GENERAL INFORMATION:

Formation: **LKC F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:00:54

Time Test Ended: 11:03:24

Interval: 4043.00 ft (KB) To 4068.00 ft (KB) (TVD)

Total Depth: 4068.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 3092.00 ft (KB)

3084.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4044.00 ft (KB)

Start Date: 2016.07.08

End Date:

2016.07.08

Start Time: 04:50:00

End Time:

11:03:24

Capacity: 8000.00 psig

Last Calib.:

2016.07.08

Time On Btm:

Time Off Btm:

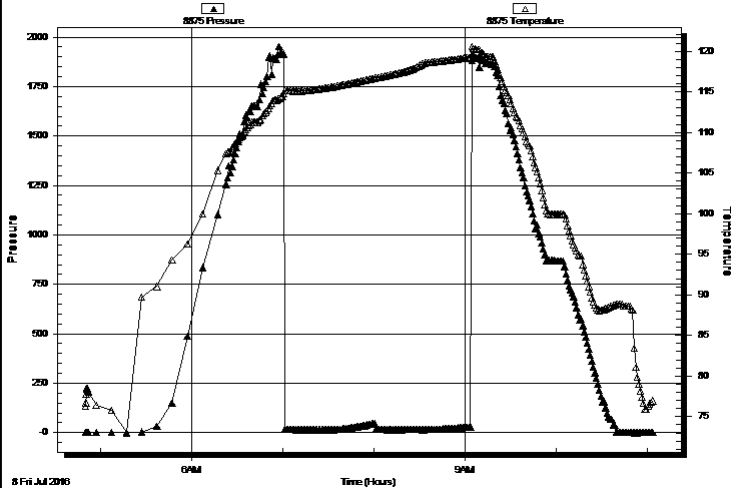
TEST COMMENT: IF: 1/4" blow died in 12 min.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65482

DST#: 3

ATTN: Marc Downing

Test Start: 2016.07.08 @ 04:49:24

Tool Information

Drill Pipe:	Length: 3728.00 ft	Diameter: 3.80 inches	Volume: 52.29 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.25 inches	Volume: 1.53 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 53.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4043.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 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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Stubb	1.00			4024.00	
Shut In Tool	5.00			4029.00	
Hydraulic tool	5.00			4034.00	
Packer	5.00			4039.00	20.00 Bottom Of Top Packer
Packer	4.00			4043.00	
Stubb	1.00			4044.00	
Recorder	0.00	8875	Inside	4044.00	
Recorder	0.00	8166	Outside	4044.00	
Perforations	19.00			4063.00	
Bullnose	5.00			4068.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65482

DST#: 3

ATTN: Marc Downing

Test Start: 2016.07.08 @ 04:49:24

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

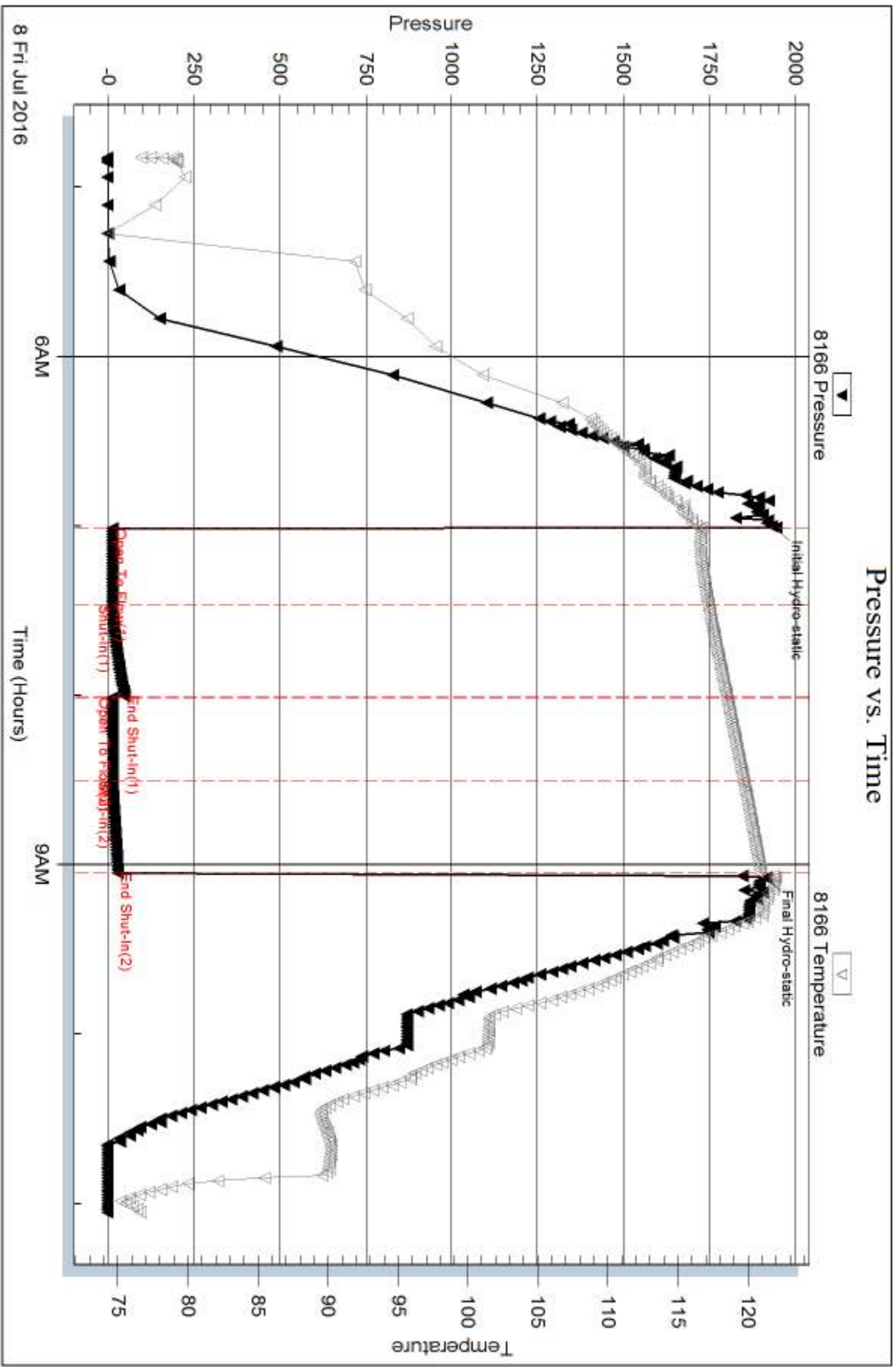
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



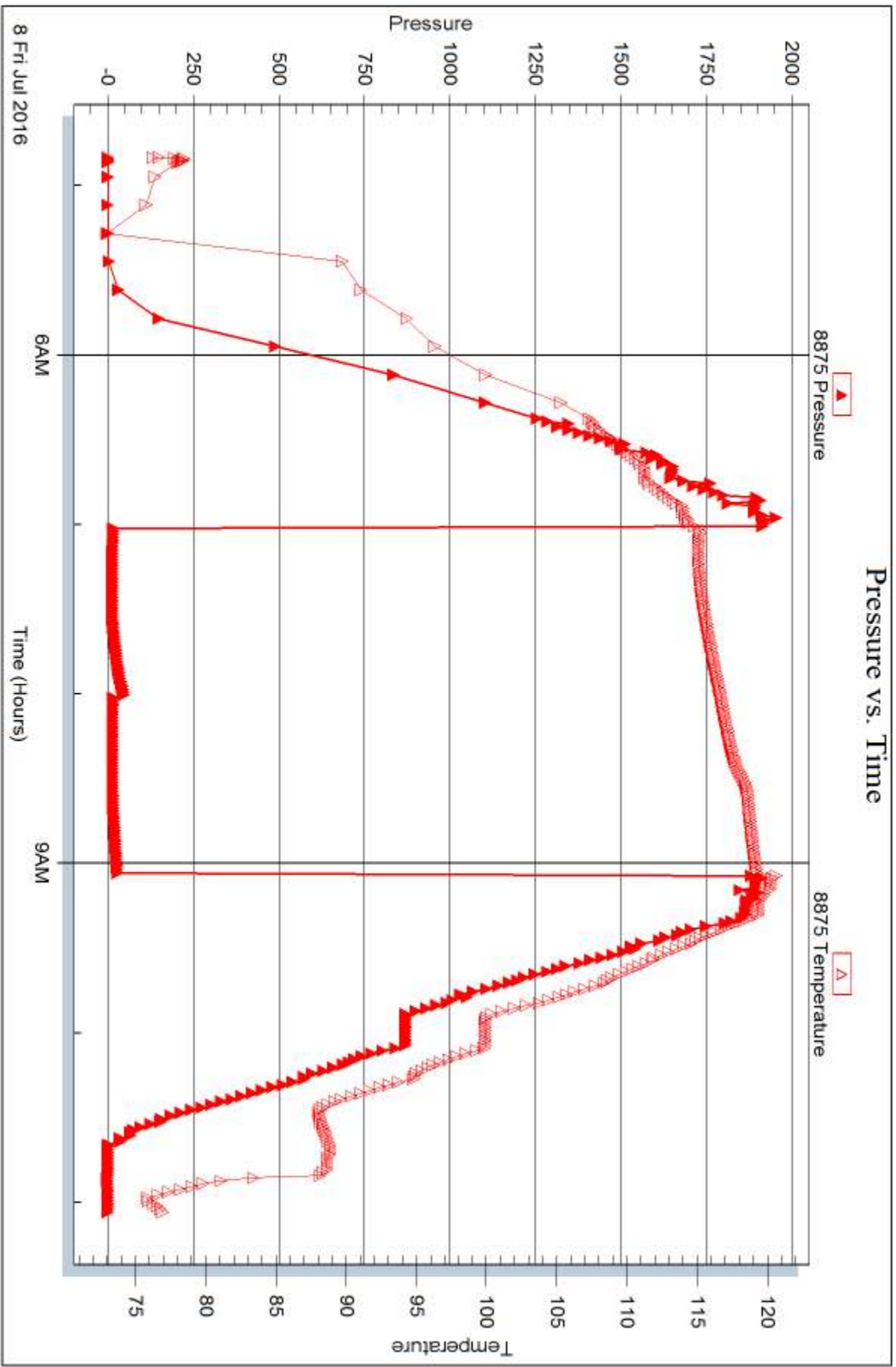
Serial #: 8875

Inside

John O Farmer Inc

Schroeder Unit #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65482

Printed: 2016.07.12 @ 08:33:12



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave.
Russel, KS 67665

ATTN: Marc Downing

Schroeder Unit #1

14-6s-33w Thomas,KS

Start Date: 2016.07.08 @ 23:57:12

End Date: 2016.07.09 @ 08:22:42

Job Ticket #: 65483 DST #: 4

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

Printed: 2016.07.12 @ 08:32:39

John O Farmer Inc
14-6s-33w Thomas,KS
Schroeder Unit #1
DST # 4
LKC J
2016.07.08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

ATTN: Marc Downing

Job Ticket: 65483

DST#: 4

Test Start: 2016.07.08 @ 23:57:12

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:40:12

Time Test Ended: 08:22:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4117.00 ft (KB) To 4167.00 ft (KB) (TVD)

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4167.00 ft (KB) (TVD)

3084.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8166 Outside

Press@RunDepth: 157.24 psig @ 4118.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.08

End Date:

2016.07.09

Last Calib.:

2016.07.09

Start Time: 23:57:17

End Time:

08:22:41

Time On Btm:

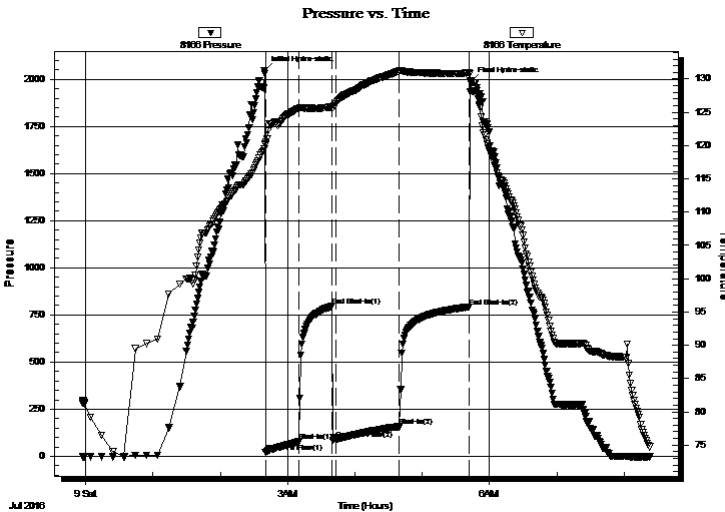
2016.07.09 @ 02:39:12

Time Off Btm:

2016.07.09 @ 05:43:12

TEST COMMENT: IF: 1/4" blow built to 8" in 30 min.
IS: No return.
FF: Surface blow built to 9" in 60 min.
FS: No return,

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2047.27	119.56	Initial Hydro-static
1	19.98	120.20	Open To Flow (1)
31	77.48	125.60	Shut-In(1)
61	796.16	125.80	End Shut-In(1)
64	88.83	126.32	Open To Flow (2)
121	157.24	131.20	Shut-In(2)
183	792.72	130.96	End Shut-In(2)
184	1989.41	129.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	mcw 70%w 30%m	0.62
126.00	w cm 15%w 85%m	0.62
73.00	w cm 5%w 95%m	0.48

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate		13.00	

* Recovery from multiple tests



DRILL STEM TEST REPORT

John O Farmer Inc
 370 W Wichita Ave.
 Russel, KS 67665
 ATTN: Marc Downing

14-6s-33w Thomas,KS

Schroeder Unit #1

Job Ticket: 65483

DST#: 4

Test Start: 2016.07.08 @ 23:57:12

GENERAL INFORMATION:

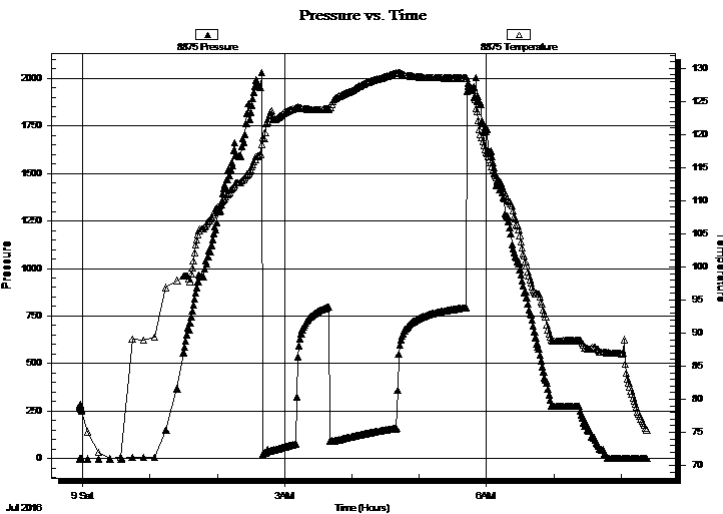
Formation: **LKC J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:40:12
 Time Test Ended: 08:22:42
Interval: 4117.00 ft (KB) To 4167.00 ft (KB) (TVD)
 Total Depth: 4167.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3092.00 ft (KB)
 3084.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4118.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.07.08 End Date: 2016.07.09 Last Calib.: 2016.07.09
 Start Time: 23:57:15 End Time: 08:22:39 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 8" in 30 min.
 IS: No return.
 FF: Surface blow built to 9" in 60 min.
 FS: No return,

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	mcw 70%w 30%m	0.62
126.00	w cm 15%w 85%m	0.62
73.00	w cm 5%w 95%m	0.48

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate		13.00	

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65483

DST#: 4

ATTN: Marc Downing

Test Start: 2016.07.08 @ 23:57:12

Tool Information

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.25 inches	Volume: 1.53 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4117.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4098.00	
Shut In Tool	5.00			4103.00	
Hydraulic tool	5.00			4108.00	
Packer	5.00			4113.00	20.00 Bottom Of Top Packer
Packer	4.00			4117.00	
Stubb	1.00			4118.00	
Recorder	0.00	8875	Inside	4118.00	
Recorder	0.00	8166	Outside	4118.00	
Perforations	10.00			4128.00	
Change Over Sub	1.00			4129.00	
Drill Pipe	32.00			4161.00	
Change Over Sub	1.00			4162.00	
Bullnose	5.00			4167.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65483

DST#: 4

ATTN: Marc Downing

Test Start: 2016.07.08 @ 23:57:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26500 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	mcw 70%w 30%m	0.620
126.00	w cm 15%w 85%m	0.620
73.00	w cm 5%w 95%m	0.477

Total Length: 325.00 ft Total Volume: 1.717 bbl

Num Fluid Samples: 0

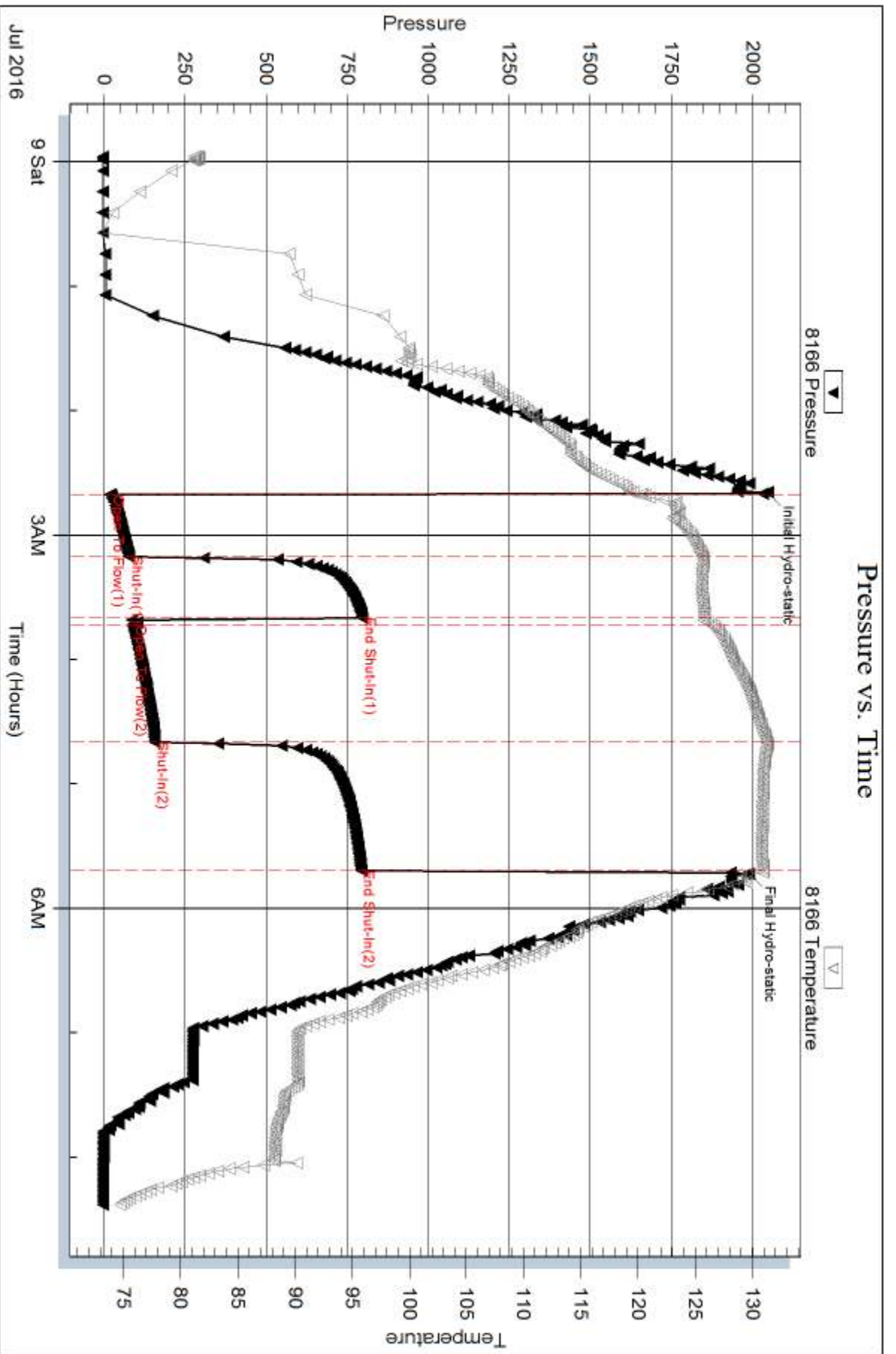
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .26@70=26500



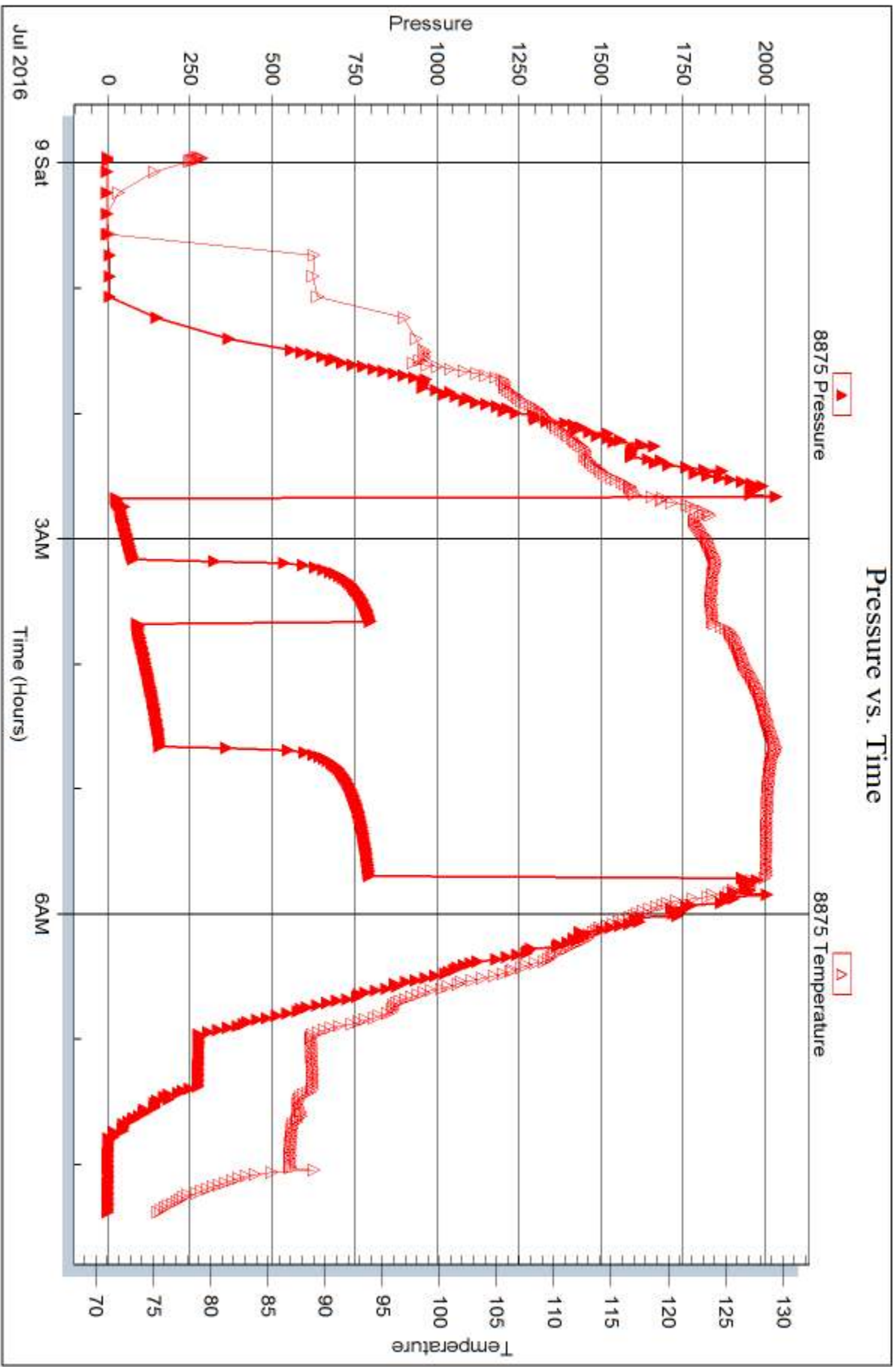
Serial #: 8875

Inside

John O Farmer Inc

Schroeder Unit #1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 65483

Printed: 2016.07.12 @ 08:32:40



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave.
Russel, KS 67665

ATTN: Marc Downing

Schroeder Unit #1

14-6s-33w Thomas,KS

Start Date: 2016.07.10 @ 16:02:44

End Date: 2016.07.11 @ 00:26:44

Job Ticket #: 65484 DST #: 5

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

Printed: 2016.07.12 @ 08:31:58



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

ATTN: Marc Downing

Job Ticket: 65484

DST#: 5

Test Start: 2016.07.10 @ 16:02:44

GENERAL INFORMATION:

Formation: **Cherokee Lm**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:32:44

Time Test Ended: 00:26:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4417.00 ft (KB) To 4454.00 ft (KB) (TVD)

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4454.00 ft (KB) (TVD)

3084.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8166 Outside

Press@RunDepth: 208.89 psig @ 4418.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.10

End Date:

2016.07.11

Last Calib.:

2016.07.11

Start Time: 16:02:49

End Time:

00:26:43

Time On Btm:

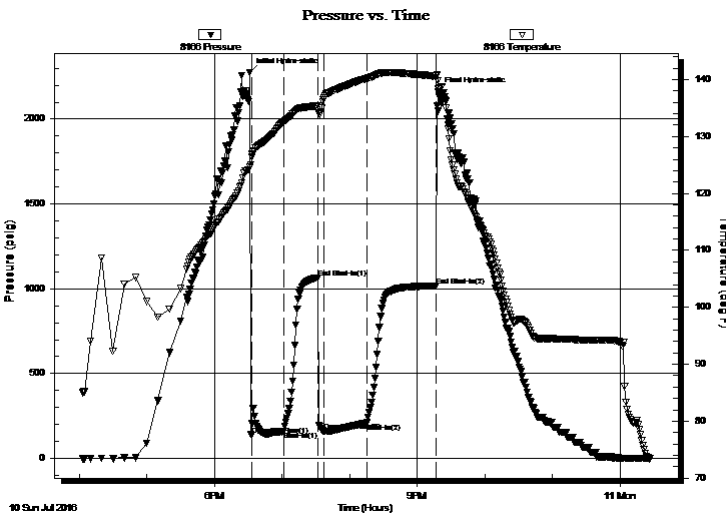
2016.07.10 @ 18:31:14

Time Off Btm:

2016.07.10 @ 21:18:44

TEST COMMENT: IF: BOB in 8 min.
IS: Surface blow built to 5"
FF: BOB in 6 min.
FS: BOB in 25 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.33	124.60	Initial Hydro-static
2	137.76	126.33	Open To Flow (1)
30	161.56	132.58	Shut-In(1)
61	1064.66	135.41	End Shut-In(1)
66	161.75	136.48	Open To Flow (2)
104	208.89	140.20	Shut-In(2)
165	1017.24	140.59	End Shut-In(2)
168	2163.43	138.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	gocm 20%g 10%o 70%m	0.62
189.00	go 20%g 80%o	0.96
239.00	go 30%g 70%o	3.35
0.00	769 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65484

DST#: 5

ATTN: Marc Downing

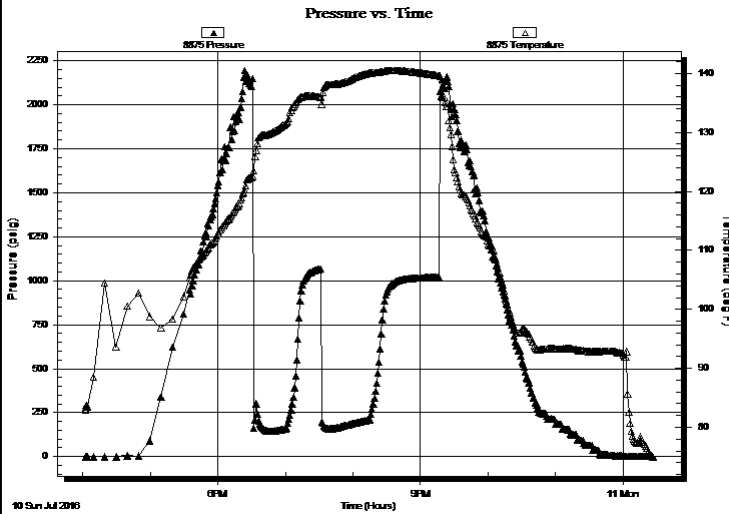
Test Start: 2016.07.10 @ 16:02:44

GENERAL INFORMATION:

Formation: **Cherokee Lm**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:32:44
 Time Test Ended: 00:26:44
Interval: 4417.00 ft (KB) To 4454.00 ft (KB) (TVD)
 Total Depth: 4454.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3092.00 ft (KB)
 3084.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Inside
 Press@RunDepth: psig @ 4418.00 ft (KB)
 Start Date: 2016.07.10 End Date: 2016.07.11 Capacity: 8000.00 psig
 Start Time: 16:02:40 End Time: 00:26:34 Last Calib.: 2016.07.11
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 8 min.
 IS: Surface blow built to 5"
 FF: BOB in 6 min.
 FS: BOB in 25 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	gocm 20%g 10%o 70%m	0.62
189.00	go 20%g 80%o	0.96
239.00	go 30%g 70%o	3.35
0.00	769 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

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65484

DST#: 5

ATTN: Marc Downing

Test Start: 2016.07.10 @ 16:02:44

Tool Information

Drill Pipe:	Length: 4111.00 ft	Diameter: 3.80 inches	Volume: 57.67 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.25 inches	Volume: 1.53 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 59.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4417.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4398.00	
Shut In Tool	5.00			4403.00	
Hydraulic tool	5.00			4408.00	
Packer	5.00			4413.00	20.00 Bottom Of Top Packer
Packer	4.00			4417.00	
Stubb	1.00			4418.00	
Recorder	0.00	8875	Inside	4418.00	
Recorder	0.00	8166	Outside	4418.00	
Perforations	31.00			4449.00	
Bullnose	5.00			4454.00	37.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

14-6s-33w Thomas,KS

370 W Wichita Ave.
Russel, KS 67665

Schroeder Unit #1

Job Ticket: 65484

DST#: 5

ATTN: Marc Downing

Test Start: 2016.07.10 @ 16:02:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	gocm 20%g 10%o 70%m	0.620
189.00	go 20%g 80%o	0.957
239.00	go 30%g 70%o	3.353
0.00	769 GIP	0.000

Total Length: 554.00 ft

Total Volume: 4.930 bbl

Num Fluid Samples: 0

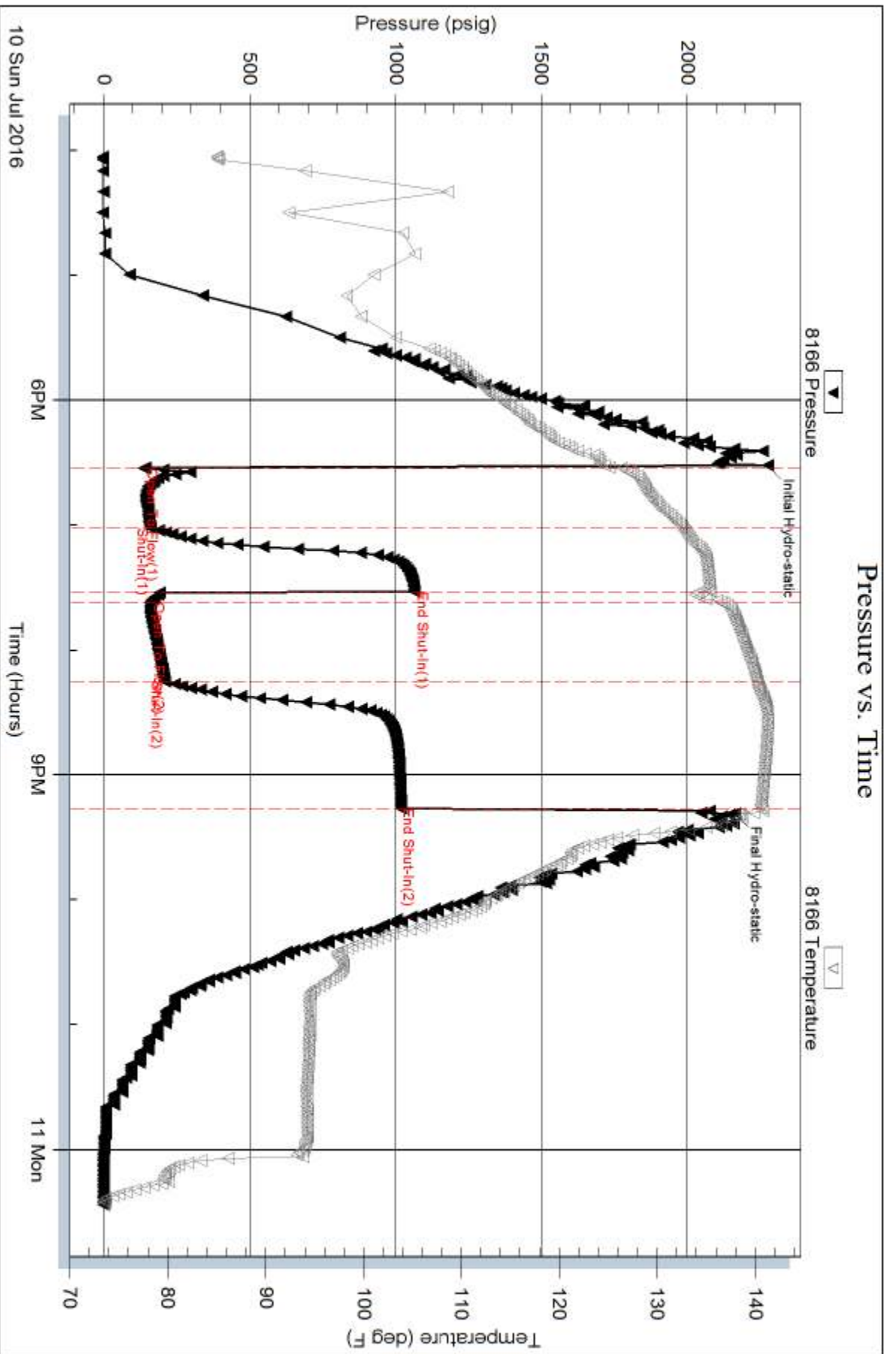
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 33@90=30



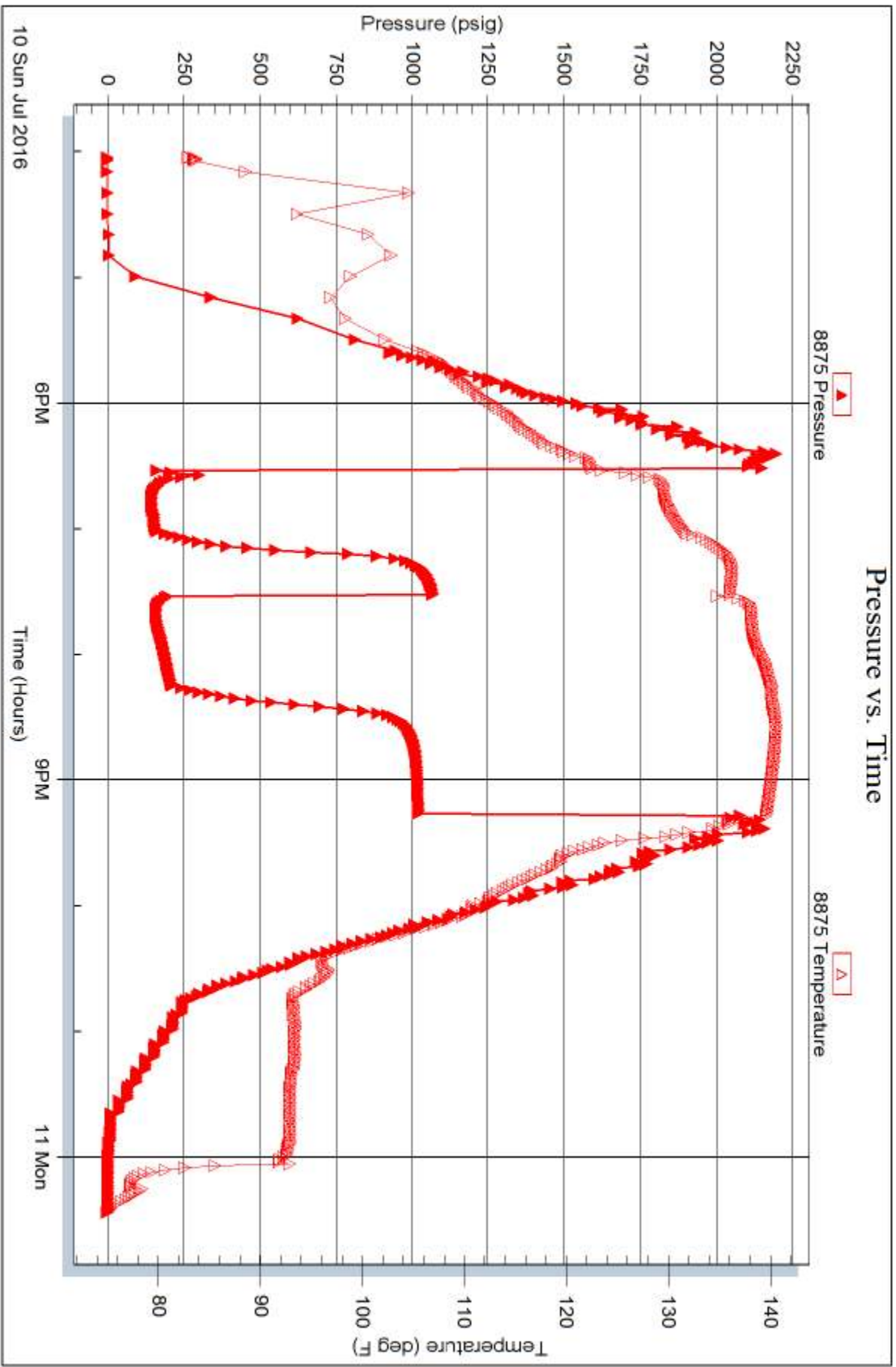
Serial #: 8875

Inside

John O Farmer Inc

Schroeder Unit #1

DST Test Number: 5

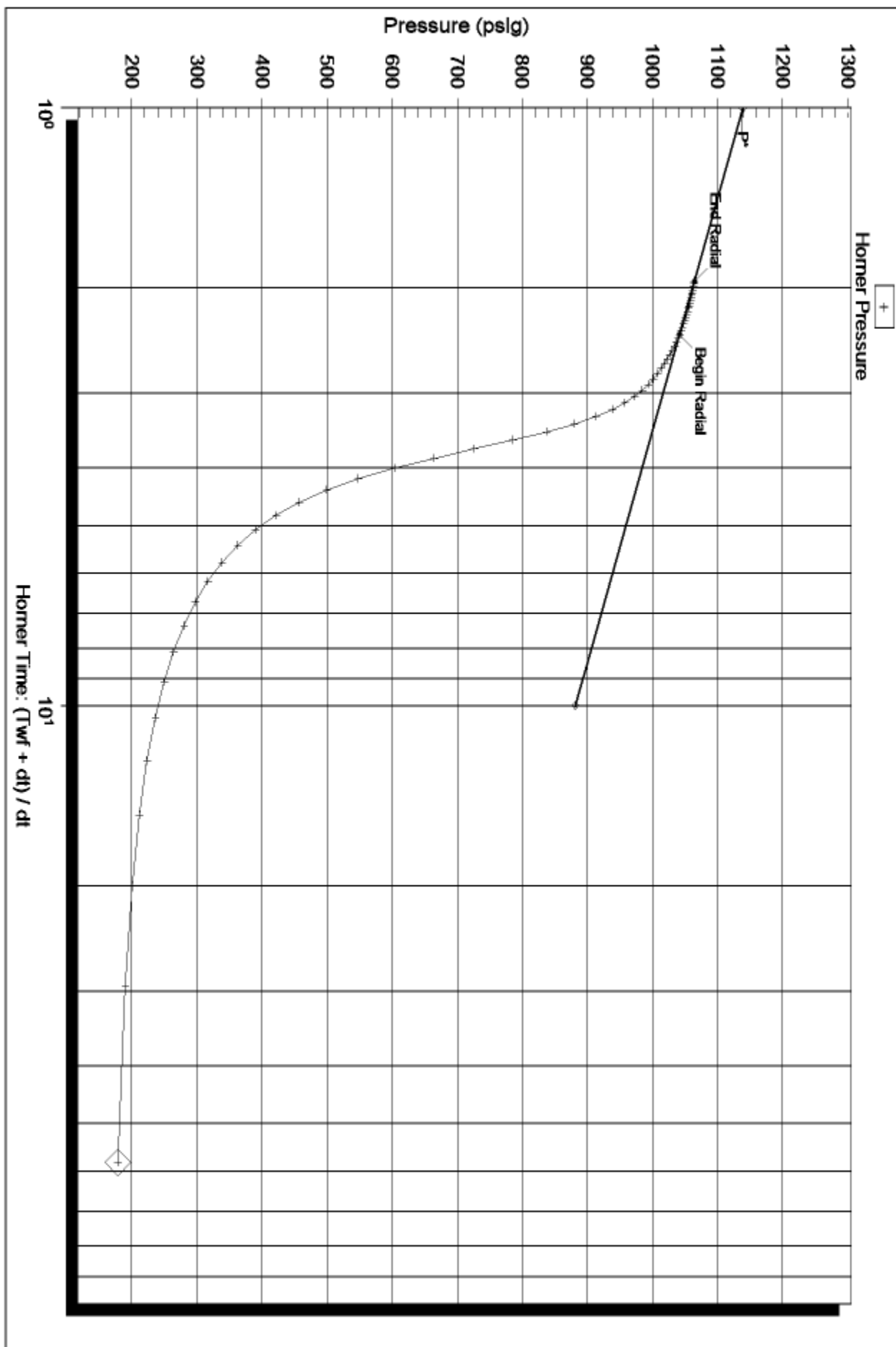


Triobite Testing, Inc

Ref. No: 65484

Printed: 2016.07.12 @ 08:32:00

Horner Plot



Serial Number: 8166 (Outside)

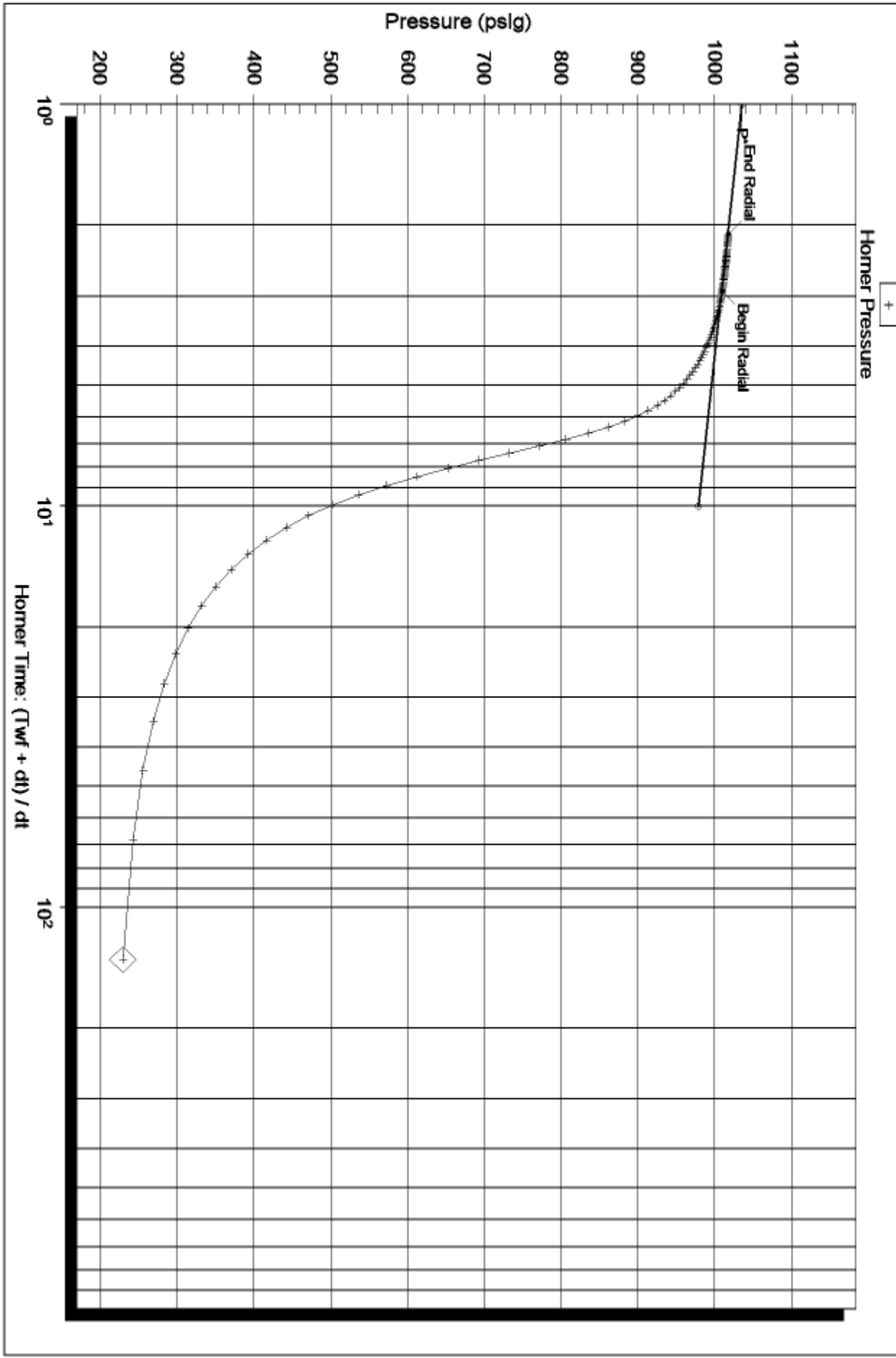
P* : 1138.57

Slope (m) : 256.88 kpa/log cycle

Flow Cycle: 1

Horner Time: $(T_{wf} + dt) / dt$

Horner Plot

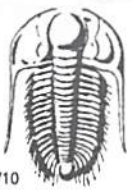


Serial Number: 8166 (Outside)

P* : 1035.69

Slope (m) : 57.08 kpa/log cycle

Flow Cycle: 2



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65480**

Well Name & No. Schroeder unit #1 Test No. 1 Date 7-6-16
 Company John O. Farmer, Inc Elevation 3092 KB 3084 GL
 Address 370 W Wichita Ave. Russell, KS 67665
 Co. Rep / Geo. Austin Klus Rig Discovery #1
 Location: Sec. 14 Twp. 65 Rge. 33W Co. Thom93 State KS

Interval Tested 3996 4026 Zone Tested LKC B-C
 Anchor Length 30 Drill Pipe Run 3696 Mud Wt. 8.9
 Top Packer Depth 3991 Drill Collars Run — Vis 52
 Bottom Packer Depth 3996 Wt. Pipe Run 312 WL 7.2
 Total Depth 4026 Chlorides 2200 ppm System LCM 5

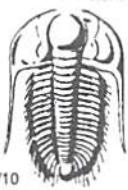
Blow Description IF: 1/4 blow built to 6 in 30 min,
IS: No return,
FF: BoB in 43 mins.
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>204</u>	<u>mw</u>		<u>50</u>	<u>50</u>	
<u>189</u>	<u>mcw</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 393 BHT 129 Gravity — API RW .31 @ 73 °F Chlorides 21,000 ppm
 (A) Initial Hydrostatic 1966 Test 1150 T-On Location 17:45
 (B) First Initial Flow 19 Jars _____ T-Started 21:23
 (C) First Final Flow 79 Safety Joint _____ T-Open 00:07
 (D) Initial Shut-In 1227 Circ Sub NIC T-Pulled 3:07
 (E) Second Initial Flow 91 Hourly Standby _____ T-Out 5:10
 (F) Second Final Flow 183 Mileage 180 - 135 Comments out of
 (G) Final Shut-In 1230 Sampler _____ Town
 (H) Final Hydrostatic 1921 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Sub Total 1285
 Total 1285
 MP/DST Disc't _____

Approved By [Signature] 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

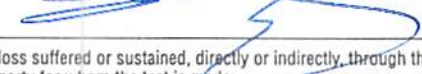
NO. **65481**

Well Name & No. Schroeder Unit #1 Test No. 2 Date 7-7-16
 Company John O Farmer, Inc Elevation 3092 KB 3084 GL
 Address _____
 Co. Rep / Geo. Austin K/aus Rig Discovery #1
 Location: Sec. 14 Twp. 65 Rge. 33W Co. Thomas State 155

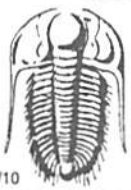
Interval Tested 4022 4045 Zone Tested LKC D
 Anchor Length 23 Drill Pipe Run 3696 Mud Wt. 9.0
 Top Packer Depth 4017 Drill Collars Run — Vis 53
 Bottom Packer Depth 4022 Wt. Pipe Run 312 WL 8.0
 Total Depth 4045 Chlorides 2500 ppm System LCM 5
 Blow Description IFI BoB in 30 sec.
IS: No return.
FF: BoB in 1 min.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>283</u>	<u>WCM</u>		<u>40</u>	<u>60</u>	
<u>2142</u>	<u>WATER</u>		<u>100</u>	<u>5</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 2425 BHT 134 Gravity — API RW .19 @ 97 °F Chlorides 26,000 ppm
 (A) Initial Hydrostatic 1952 Test 1150 T-On Location 12:00
 (B) First Initial Flow 283 Jars _____ T-Started 13:15
 (C) First Final Flow 842 Safety Joint _____ T-Open 15:30
 (D) Initial Shut-In 1238 Circ Sub NIC T-Pulled 17:30
 (E) Second Initial Flow 883 Hourly Standby _____ T-Out 20:23
 (F) Second Final Flow 1119 Mileage 180 - 135 Comments out of Town
 (G) Final Shut-In 1251 Sampler _____
 (H) Final Hydrostatic 1881 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Extra Copies _____
 Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Day Standby _____
 Accessibility _____
 Sub Total 1285
 Total 1285
 MP/DST Disc't _____

Approved By _____ Our Representative 

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. **65482**

Well Name & No. Schroeder unit #1 Test No. 3 Date 7-8-16
 Company John O Farmer Inc Elevation 3092 KB 3084 GL
 Address _____
 Co. Rep / Geo. Mrc Downing Rig Discovery #1
 Location: Sec. 14 Twp. 65 Rge. 33W Co. Thomas State KS

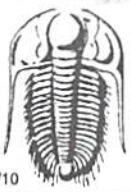
Interval Tested 4043 4068 Zone Tested LKC F
 Anchor Length 25 Drill Pipe Run 3728 Mud Wt. 9.0
 Top Packer Depth 4038 Drill Collars Run — Vis 53
 Bottom Packer Depth 4043 Wt. Pipe Run 312 WL 8.0
 Total Depth 4068 Chlorides 2500 ppm System LCM 5
 Blow Description IF: 1/4 blow died in 12 min.
IS: No return.
FF: No blow.
FS: No return.

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	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 120 Gravity — API RW — @ — ° F Chlorides — ppm
 (A) Initial Hydrostatic 1942 Test 1150 T-On Location 3:50
 (B) First Initial Flow 12 Jars _____ T-Started 4:49
 (C) First Final Flow 13 Safety Joint _____ T-Open 7:00
 (D) Initial Shut-In 49 Circ Sub NIL T-Pulled 9:00
 (E) Second Initial Flow 13 Hourly Standby _____ T-Out 11:04
 (F) Second Final Flow 13 Mileage 180 - 135 Comments out of Town
 (G) Final Shut-In 28 Sampler _____
 (H) Final Hydrostatic 1915 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1285
 Sub Total 1285
 Sub Total 0
 Total 1285
 MP/DST Disc't _____

Approved By _____ Our Representative

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. **65483**


Well Name & No. Schroeder unit #1 Test No. 4 Date 7-8-16
 Company John o Farmer Inc Elevation 3092 KB 3084 GL
 Address _____
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 14 Twp. 6S Rge. 33W Co. THOMAS State KS

Interval Tested 4117 4167 Zone Tested LKC J
 Anchor Length _____ Drill Pipe Run 3792 Mud Wt. 8.9
 Top Packer Depth 4112 Drill Collars Run _____ Vis 47
 Bottom Packer Depth 4117 Wt. Pipe Run 312 WL 7.2
 Total Depth 4167 Chlorides 4400 ppm System LCM 5

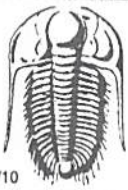
Blow Description IF: 1/4 blow built to 8 in 30 min,
IS: No return,
FF: Surface blow built to 9 in 60 min,
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>73</u>	<u>wcm</u>		<u>5</u>	<u>95</u>	
<u>126</u>	<u>wcm</u>		<u>15</u>	<u>85</u>	
<u>126</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 325 BHT 131 Gravity _____ API RW .26 @ 70 °F Chlorides 26500 ppm
 (A) Initial Hydrostatic 2047 Test 1150 T-On Location 23:00
 (B) First Initial Flow 19 Jars _____ T-Started 23:57
 (C) First Final Flow 77 Safety Joint _____ T-Open 2:40
 (D) Initial Shut-In 786 Circ Sub N/C T-Pulled 5:40
 (E) Second Initial Flow 88 Hourly Standby _____ T-Out 8:25
 (F) Second Final Flow 157 Mileage 180 - 135 Comments out of
 (G) Final Shut-In 792 Sampler _____ Town
 (H) Final Hydrostatic 1989 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1285
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1285

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65484**

Well Name & No. Schroeder unit #1 Test No. 5 Date 7-10-16
 Company John O Farmer Inc Elevation 3092 KB 3084 GL
 Address _____
 Co. Rep / Geo. MRC Downing Rig Discovery #1
 Location: Sec. 14 Twp. 65 Rge. 33W Co. Thomas State KS

Interval Tested 4417 4454 Zone Tested Cherokee Lm
 Anchor Length _____ Drill Pipe Run 4111 Mud Wt. 8.9
 Top Packer Depth 4412 Drill Collars Run _____ Vis 55
 Bottom Packer Depth 4417 Wt. Pipe Run 312 WL 9.6
 Total Depth 4454 Chlorides 5800 ppm System LCM 6

Blow Description IF: BoB in 8 min.
IS: surface blow built to 5.
FF: BoB in 6 min.
FS: BoB in 25 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>239</u>	<u>90</u>	<u>30</u>	<u>70</u>		
<u>189</u>	<u>90</u>	<u>20</u>	<u>80</u>		
<u>126</u>	<u>90cm</u>	<u>20</u>	<u>10</u>	<u>70</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 554 BHT 140 Gravity 30 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2275 Test 1150 T-On Location 13:45
 (B) First Initial Flow 137 Jars _____ T-Started 16:02
 (C) First Final Flow 161 Safety Joint _____ T-Open 18:30
 (D) Initial Shut-In 1064 Circ Sub NIC T-Pulled 21:15
 (E) Second Initial Flow 161 Hourly Standby 2- T-Out 00:28
 (F) Second Final Flow 208 Mileage 180-135 Comments on the bank
 (G) Final Shut-In 1617 Sampler _____ at 2:15
 (H) Final Hydrostatic 2163 Straddle _____ out of town
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1285
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60

Sub Total 1285

Approved By [Signature] Our Representative [Signature]

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