



DRILL STEM TEST REPORT

Prepared For: **Lachenmayr Oil LLC.**

PO Box 526
Newton, KS 67114

ATTN:

Goodrich #L-1

16-25s-1e Sedgwick,KS

Start Date: 2015.05.18 @ 21:58:27

End Date: 2015.05.19 @ 04:16:12

Job Ticket #: 59973 DST #: 1

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

Printed: 2015.05.22 @ 13:26:24

Lachenmayr Oil LLC.
16-25s-1e Sedgwick,KS
Goodrich #L-1
DST # 1
Miss.
2015.05.18



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Lachenmayr Oil LLC.

16-25s-1e Sedgwick, KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59973

DST#: 1

ATTN:

Test Start: 2015.05.18 @ 21:58:27

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:34:12

Time Test Ended: 04:16:12

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 68

Interval: 2959.00 ft (KB) To 3024.00 ft (KB) (TVD)

Reference Elevations: 1436.00 ft (KB)

Total Depth: 3024.00 ft (KB) (TVD)

1426.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8790

Inside

Press@RunDepth: 914.24 psig @ 2966.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.18

End Date:

2015.05.19

Last Calib.:

2015.05.19

Start Time: 21:58:32

End Time:

04:16:11

Time On Btm:

2015.05.18 @ 23:33:42

Time Off Btm:

2015.05.19 @ 01:35:42

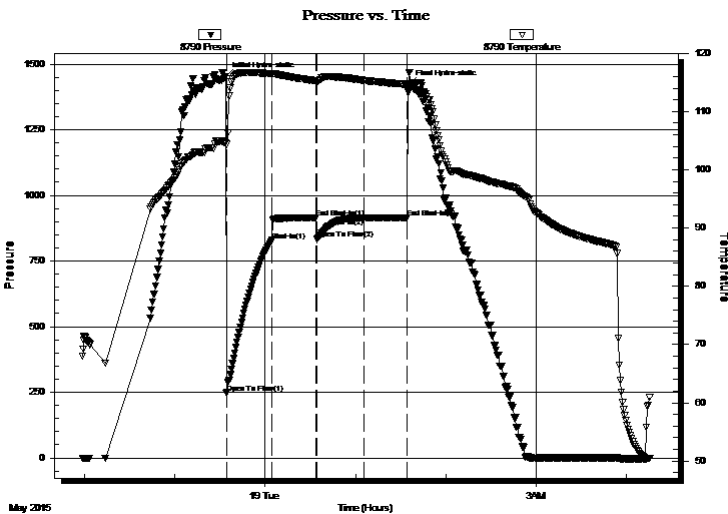
TEST COMMENT: IF: Strong blow . BOB @ 45 sec.

IS: No blow .

FF: Strong blow . Surf. - BOB @ 3 min.

FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1451.39	104.67	Initial Hydro-static
1	246.12	104.38	Open To Flow (1)
31	828.39	116.48	Shut-In(1)
61	914.19	115.25	End Shut-In(1)
61	832.45	115.20	Open To Flow (2)
92	914.24	115.32	Shut-In(2)
121	914.63	114.65	End Shut-In(2)
122	1420.81	114.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	Clean Water 100%w	5.33
1360.00	GOMCW 2%o, 5%m, 93%w	19.08
180.00	GOWCM 5%o, 30%w, 65%m	2.52

Gas Rates

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



DRILL STEM TEST REPORT

Lachenmayr Oil LLC.

16-25s-1e Sedgwick,KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59973

DST#: 1

ATTN:

Test Start: 2015.05.18 @ 21:58:27

GENERAL INFORMATION:

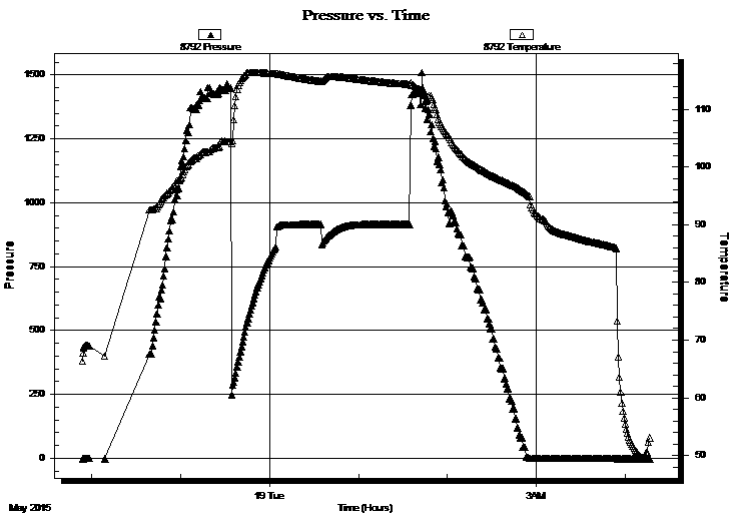
Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:34:12
 Time Test Ended: 04:16:12
 Interval: **2959.00 ft (KB) To 3024.00 ft (KB) (TVD)**
 Total Depth: 3024.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1436.00 ft (KB)
 1426.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8792 Outside

Press@RunDepth: psig @ 2966.00 ft (KB)
 Start Date: 2015.05.18 End Date: 2015.05.19
 Start Time: 21:53:53 End Time: 04:16:47
 Capacity: 8000.00 psig
 Last Calib.: 2015.05.19
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong blow . BOB @ 45 sec.
 IS: No blow .
 FF: Strong blow . Surf. - BOB @ 3 min.
 FS: No blow .

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
380.00	Clean Water 100%w	5.33
1360.00	GOMCW 2%o, 5%m, 93%w	19.08
180.00	GOWCM 5%o, 30%w , 65%m	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lachenmayr Oil LLC.

16-25s-1e Sedgwick,KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59973

DST#: 1

ATTN:

Test Start: 2015.05.18 @ 21:58:27

Tool Information

Drill Pipe:	Length: 2968.00 ft	Diameter: 3.80 inches	Volume: 41.63 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 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: 41.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	2959.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2943.00	
Hydraulic tool	5.00			2948.00	
Safety Joint	2.00		Inside	2950.00	
Packer	5.00			2955.00	21.00 Bottom Of Top Packer
Packer	4.00			2959.00	
Stubb	1.00			2960.00	
Perforations	5.00			2965.00	
Change Over Sub	1.00			2966.00	
Recorder	0.00	8790	Inside	2966.00	
Recorder	0.00	8792	Outside	2966.00	
Drill Pipe	32.00			2998.00	
Change Over Sub	1.00			2999.00	
Perforations	22.00			3021.00	
Bullnose	3.00			3024.00	65.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lachenmayr Oil LLC.

16-25s-1e Sedgwick,KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59973

DST#: 1

ATTN:

Test Start: 2015.05.18 @ 21:58:27

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 0.08 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	Clean Water 100%w	5.330
1360.00	GOMCW 2%o, 5%m, 93%w	19.077
180.00	GOWCM 5%o, 30%w, 65%m	2.525

Total Length: 1920.00 ft Total Volume: 26.932 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

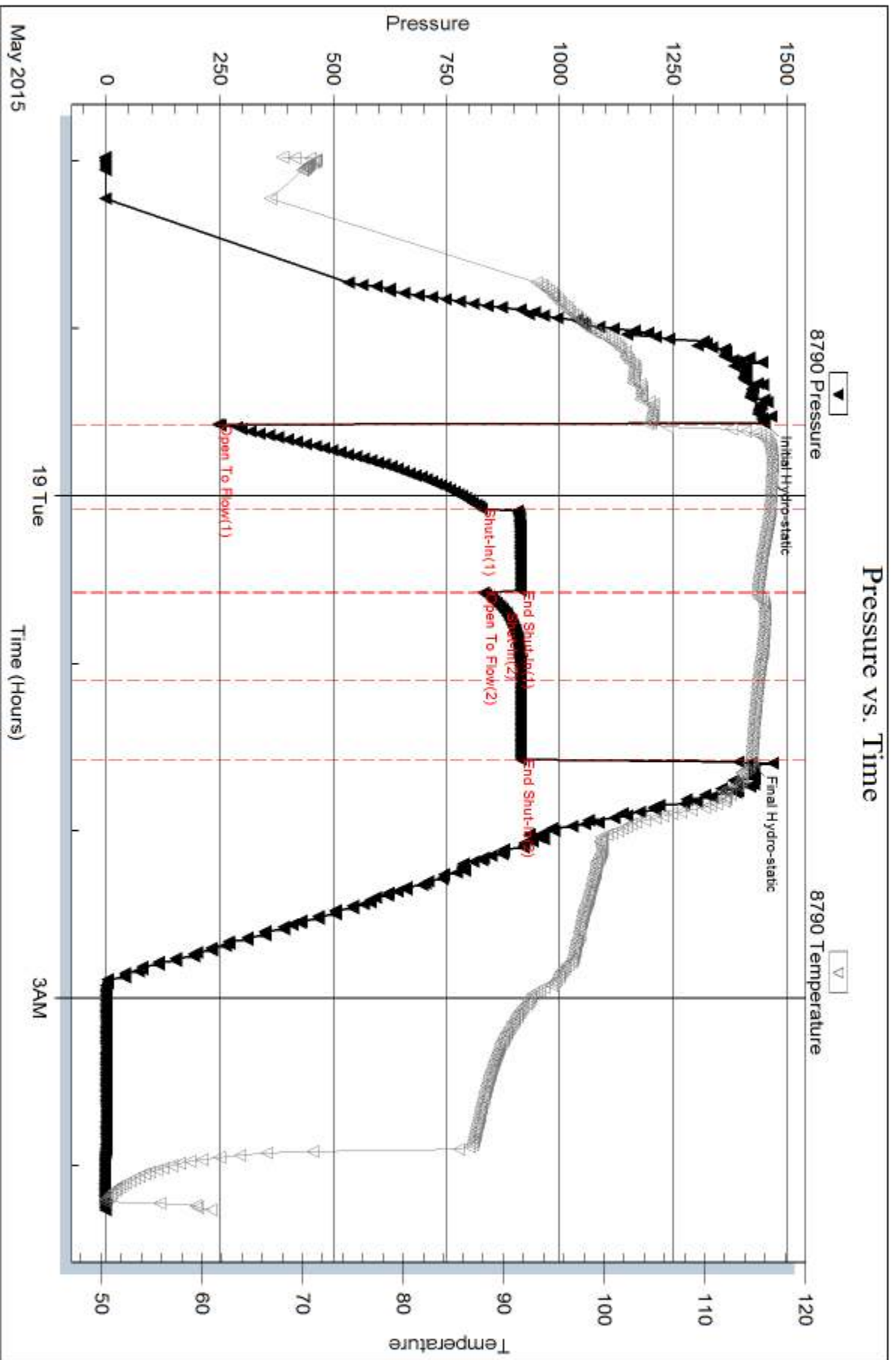
Inside

Lachemmayr Oil LLC.

Goodrich #L-1

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 59973

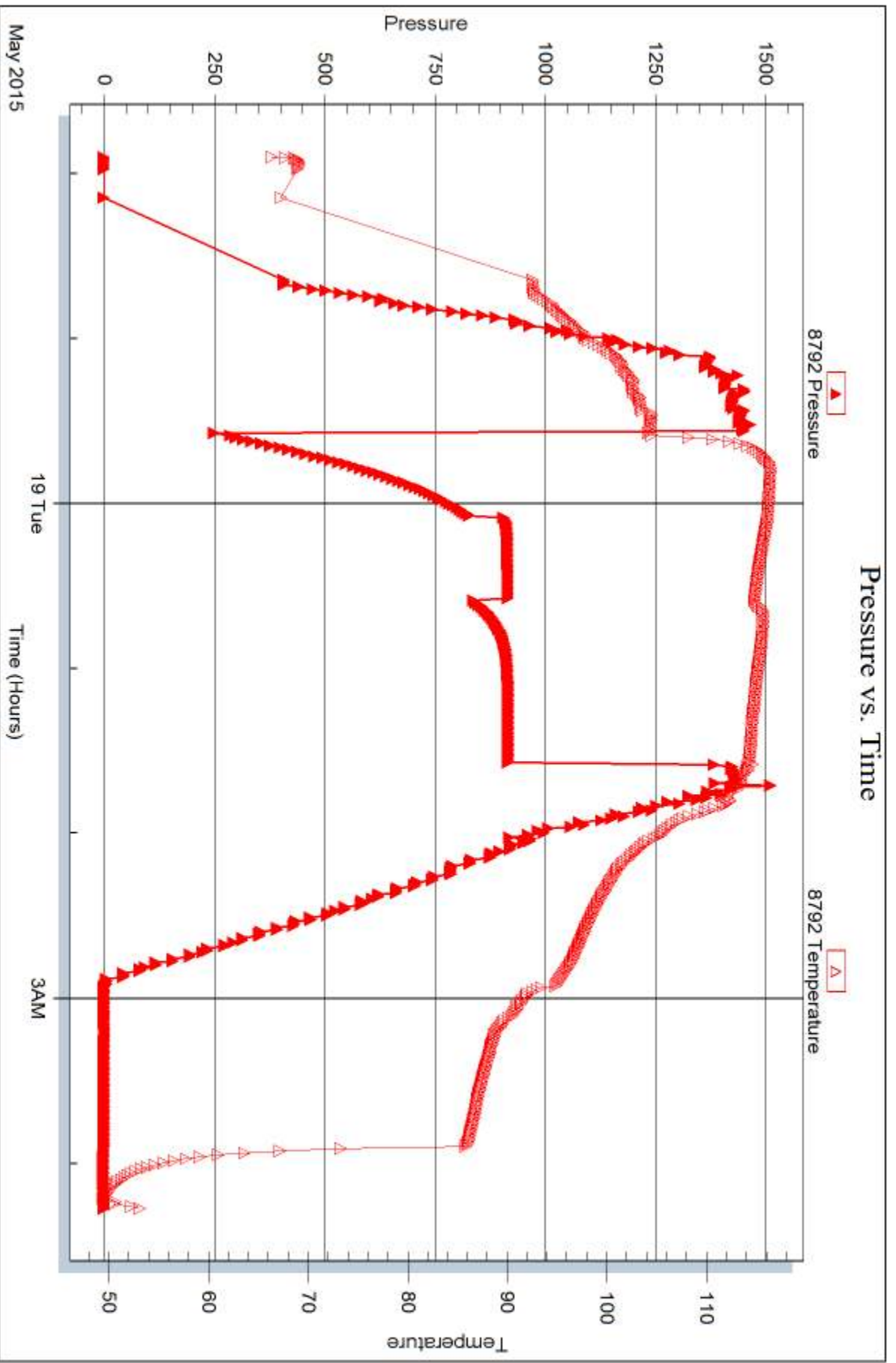
Printed: 2015.05.22 @ 13:26:25

Serial #: 8792

Outside Lachemmayr Oil LLC.

Goodrich #L-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Lachenmayr Oil LLC.**

PO Box 526
Newton, KS 67114

ATTN:

Goodrich #L-1

16-25s-1e Sedgwick,KS

Start Date: 2015.05.20 @ 05:18:14

End Date: 2015.05.20 @ 12:00:14

Job Ticket #: 59974 DST #: 2

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

Printed: 2015.05.22 @ 13:26:00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Lachenmayr Oil LLC.

16-25s-1e Sedgwick, KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59974

DST#: 2

ATTN:

Test Start: 2015.05.20 @ 05:18:14

GENERAL INFORMATION:

Formation: **Hunton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:31:59

Time Test Ended: 12:00:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 68

Interval: 3340.00 ft (KB) To 3346.00 ft (KB) (TVD)

Reference Elevations: 1436.00 ft (KB)

Total Depth: 3346.00 ft (KB) (TVD)

1426.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8790

Inside

Press@RunDepth: 80.94 psig @ 3343.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.20

End Date:

2015.05.20

Last Calib.:

2015.05.20

Start Time: 05:18:19

End Time:

12:00:13

Time On Btm:

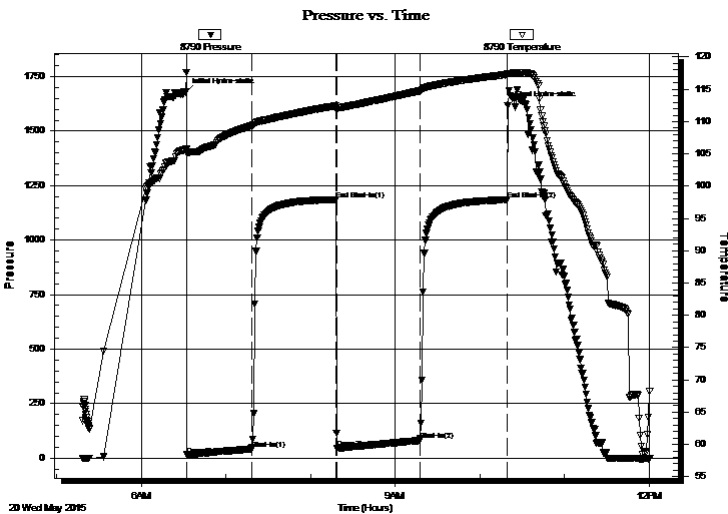
2015.05.20 @ 06:31:14

Time Off Btm:

2015.05.20 @ 10:19:44

TEST COMMENT: IF: Fair blow . 1/2" - 7"
IS: Weak surf. blow
FF: Fair blow . surf. - 6"
FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.11	105.66	Initial Hydro-static
1	15.49	105.15	Open To Flow (1)
47	42.57	109.36	Shut-In(1)
107	1186.26	112.44	End Shut-In(1)
108	44.33	112.15	Open To Flow (2)
166	80.94	114.75	Shut-In(2)
228	1184.67	117.27	End Shut-In(2)
229	1615.28	117.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GOCMW 5%g, 5%o, 30%m, 60%w	1.26
60.00	Clean Gassy Oil 10%g, 90%o	0.84
0.00	180' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lachenmayr Oil LLC.

16-25s-1e Sedgwick, KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59974

DST#: 2

ATTN:

Test Start: 2015.05.20 @ 05:18:14

GENERAL INFORMATION:

Formation: **Hunton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:31:59

Time Test Ended: 12:00:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 68

Interval: 3340.00 ft (KB) To 3346.00 ft (KB) (TVD)

Reference Elevations: 1436.00 ft (KB)

Total Depth: 3346.00 ft (KB) (TVD)

1426.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8792 Outside

Press@RunDepth: psig @ 3343.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.20

End Date: 2015.05.20

Last Calib.: 2015.05.20

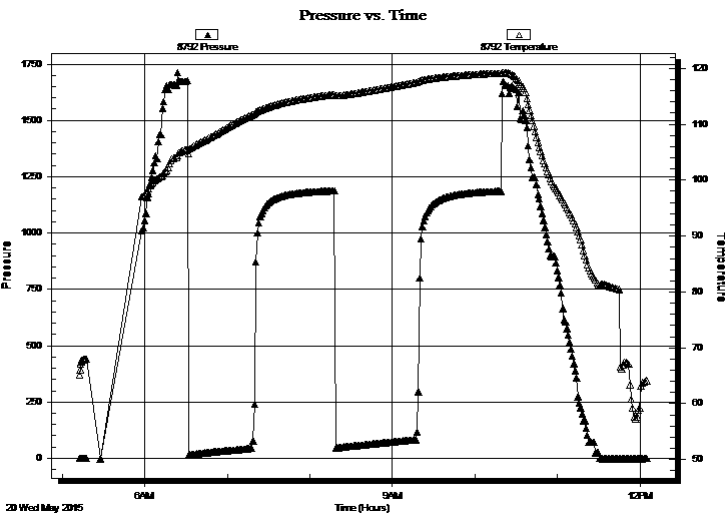
Start Time: 05:12:35

End Time: 12:04:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair blow . 1/2" - 7"
IS: Weak surf. blow
FF: Fair blow . surf. - 6"
FS: No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GOCMW 5%g, 5%o, 30%m, 60%w	1.26
60.00	Clean Gassy Oil 10%g, 90%o	0.84
0.00	180' 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

Lachenmayr Oil LLC.

16-25s-1e Sedgwick,KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59974

DST#: 2

ATTN:

Test Start: 2015.05.20 @ 05:18:14

Tool Information

Drill Pipe:	Length: 3350.00 ft	Diameter: 3.80 inches	Volume: 46.99 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 46.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3340.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	27.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3324.00	
Hydraulic tool	5.00			3329.00	
Safety Joint	2.00		Inside	3331.00	
Packer	5.00			3336.00	21.00 Bottom Of Top Packer
Packer	4.00			3340.00	
Stubb	1.00			3341.00	
Perforations	2.00			3343.00	
Recorder	0.00	8790	Inside	3343.00	
Recorder	0.00	8792	Outside	3343.00	
Bullnose	3.00			3346.00	6.00 Bottom Packers & Anchor
Total Tool Length:	27.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lachenmayr Oil LLC.

16-25s-1e Sedgwick, KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59974

DST#: 2

ATTN:

Test Start: 2015.05.20 @ 05:18:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

55000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 0.08 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GOCMW 5%g, 5%o, 30%m, 60%w	1.262
60.00	Clean Gassy Oil 10%g, 90%o	0.842
0.00	180' GIP	0.000

Total Length: 150.00 ft

Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

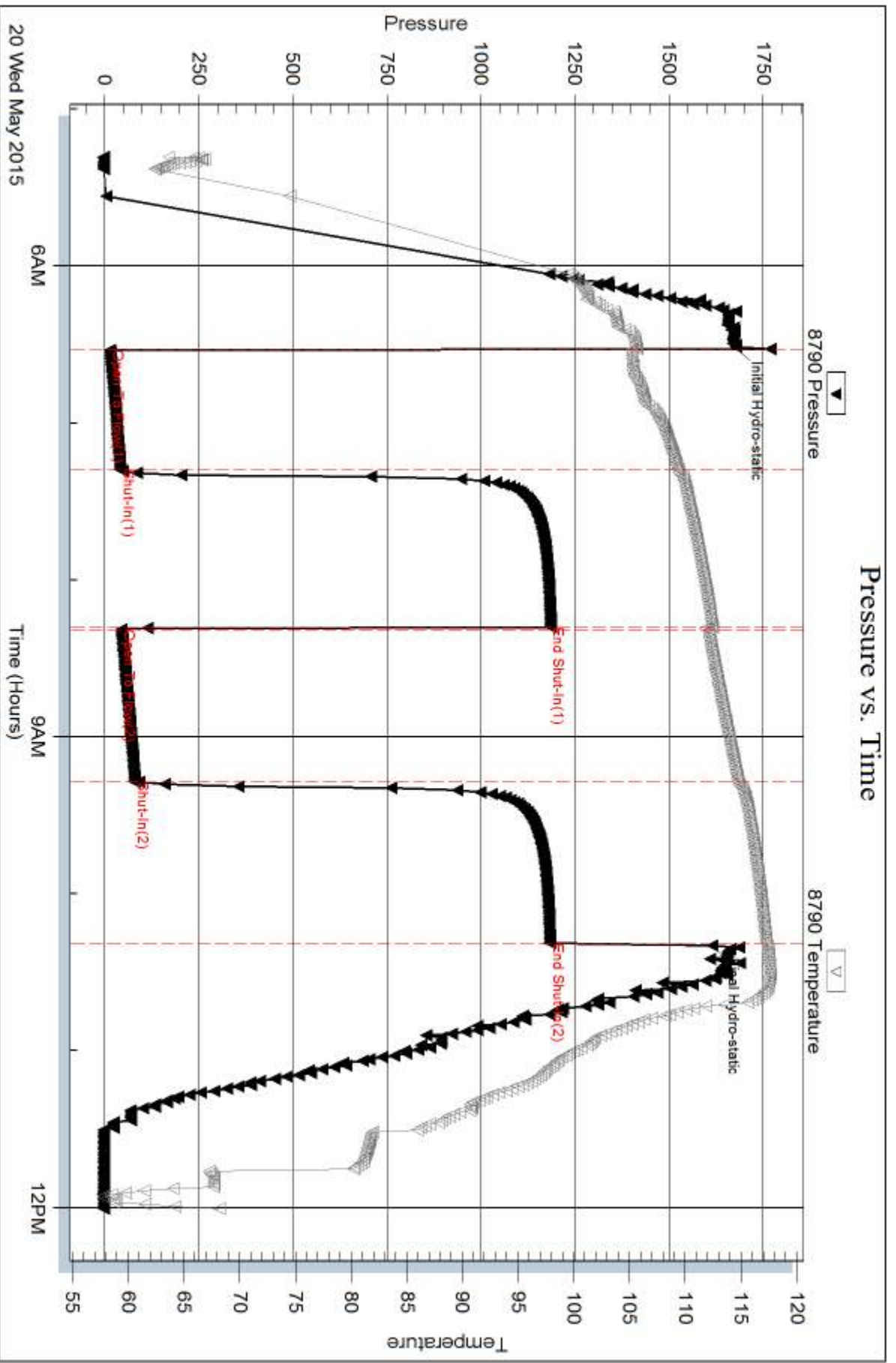
Serial #: 8790

Inside

Lachemmayr Oil LLC.

Goodrich #L-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59974

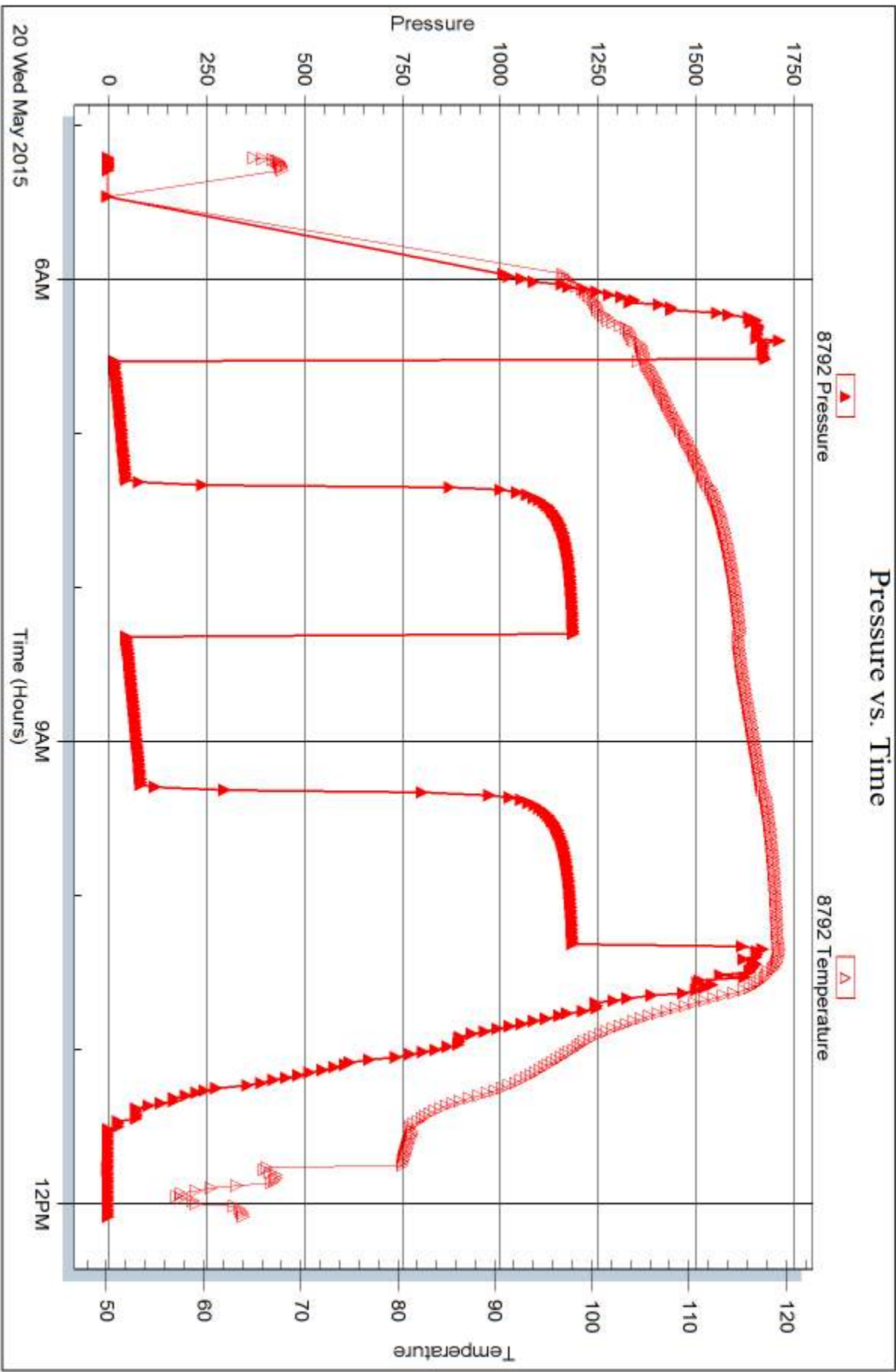
Printed: 2015.05.22 @ 13:26:01

Serial #: 8792

Outside Lachenmayr Oil LLC.

Goodrich #L-1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Lachenmayr Oil LLC.**

PO Box 526
Newton, KS 67114

ATTN:

Goodrich #L-1

16-25s-1e Sedgwick,KS

Start Date: 2015.05.21 @ 02:42:19

End Date: 2015.05.21 @ 08:03:04

Job Ticket #: 59975 DST #: 3

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

Printed: 2015.05.22 @ 13:17:19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Lachenmayr Oil LLC.

16-25s-1e Sedgwick, KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59975

DST#: 3

ATTN:

Test Start: 2015.05.21 @ 02:42:19

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:12:04
 Time Test Ended: 08:03:04
 Interval: **3383.00 ft (KB) To 3413.00 ft (KB) (TVD)**
 Total Depth: 3413.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1436.00 ft (KB)
 1426.00 ft (CF)
 KB to GR/CF: 10.00 ft

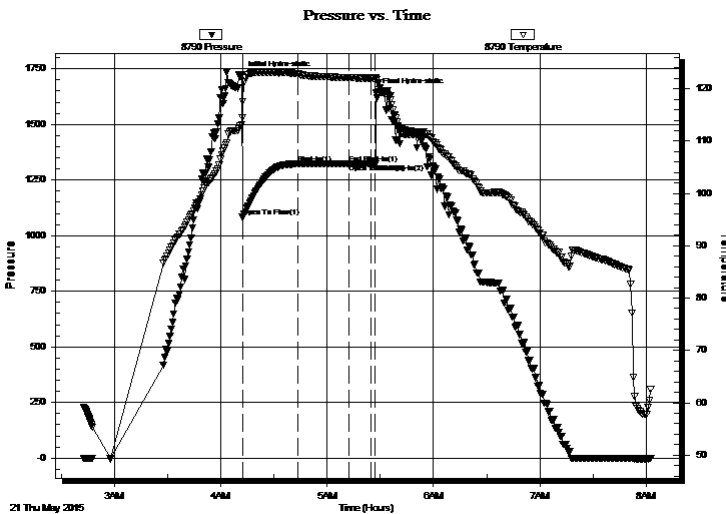
Serial #: 8790

Inside

Press@RunDepth: 1323.83 psig @ 3390.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.05.21 End Date: 2015.05.21 Last Calib.: 2015.05.21
 Start Time: 02:42:24 End Time: 08:03:03 Time On Btm: 2015.05.21 @ 04:11:34
 Time Off Btm: 2015.05.21 @ 05:27:34

TEST COMMENT: IF: Strong blow . BOB @ 30 sec. (weak blow @ end of fp)
 IS: No blow .
 FF: Weak blow . 1/2" - dead @ 6 min.
 FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.57	113.15	Initial Hydro-static
1	1084.08	114.49	Open To Flow (1)
32	1322.75	122.90	Shut-In(1)
61	1324.04	122.09	End Shut-In(1)
61	1324.00	122.08	Open To Flow (2)
74	1323.83	121.97	Shut-In(2)
76	1324.31	121.97	End Shut-In(2)
76	1641.57	122.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2975.00	Water (mud cut @ top)	41.73

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Lachenmayr Oil LLC.

16-25s-1e Sedgwick, KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59975 **DST#: 3**

ATTN:

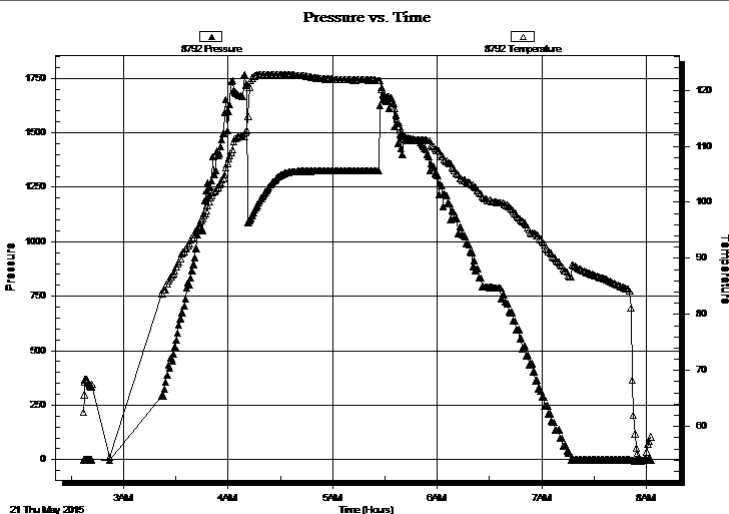
Test Start: 2015.05.21 @ 02:42:19

GENERAL INFORMATION:

Formation: Viola		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Ryan Reynolds
Time Tool Opened: 04:12:04		Unit No: 68
Time Test Ended: 08:03:04		
Interval: 3383.00 ft (KB) To 3413.00 ft (KB) (TVD)		Reference Elevations: 1436.00 ft (KB)
Total Depth: 3413.00 ft (KB) (TVD)		1426.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 10.00 ft

Serial #: 8792	Outside		
Press@RunDepth: psig @ 3390.00 ft (KB)		Capacity:	8000.00 psig
Start Date: 2015.05.21	End Date: 2015.05.21	Last Calib.:	2015.05.21
Start Time: 02:37:07	End Time: 08:03:01	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Strong blow . BOB @ 30 sec. (weak blow @ end of fp)
 IS: No blow .
 FF: Weak blow . 1/2" - dead @ 6 min.
 FS: No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2975.00	Water (mud cut @ top)	41.73

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lachenmayr Oil LLC.

16-25s-1e Sedgwick,KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59975

DST#: 3

ATTN:

Test Start: 2015.05.21 @ 02:42:19

Tool Information

Drill Pipe:	Length: 3383.00 ft	Diameter: 3.80 inches	Volume: 47.45 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 49000.00 lb
			<u>Total Volume: 47.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3389.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 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
Shut In Tool	5.00			3373.00	
Hydraulic tool	5.00			3378.00	
Safety Joint	2.00		Inside	3380.00	
Packer	5.00			3385.00	21.00 Bottom Of Top Packer
Packer	4.00			3389.00	
Stubb	1.00			3390.00	
Recorder	0.00	8790	Inside	3390.00	
Recorder	0.00	8792	Outside	3390.00	
Perforations	20.00			3410.00	
Bullnose	3.00			3413.00	24.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lachenmayr Oil LLC.

16-25s-1e Sedgwick,KS

PO Box 526
New ton, KS 67114

Goodrich #L-1

Job Ticket: 59975

DST#: 3

ATTN:

Test Start: 2015.05.21 @ 02:42:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

16500 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 0.08 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2975.00	Water (mud cut @ top)	41.731

Total Length: 2975.00 ft Total Volume: 41.731 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

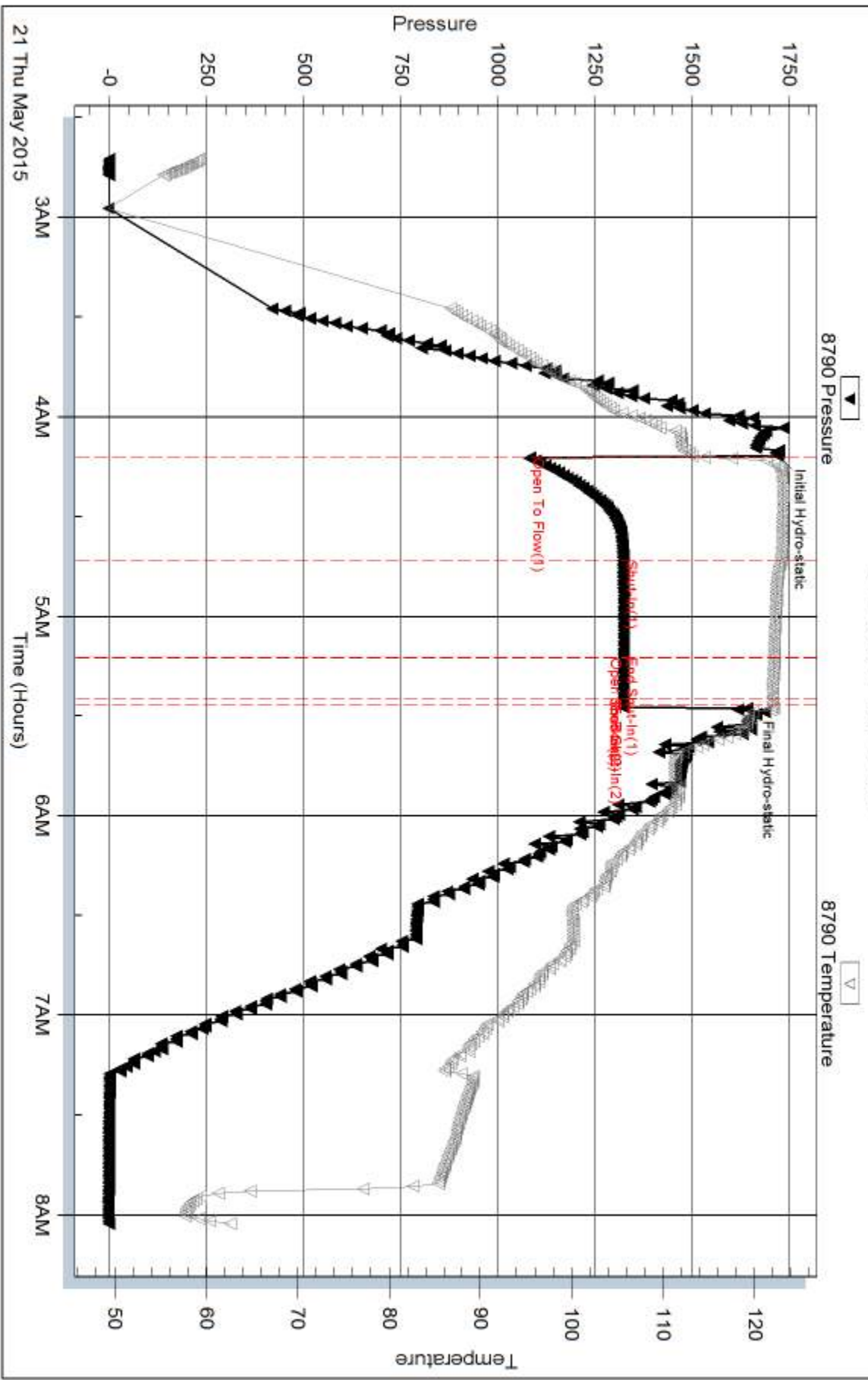
Inside

Lachenmayr Oil LLC.

Goodrich #L-1

DST Test Number: 3

Pressure vs. Time

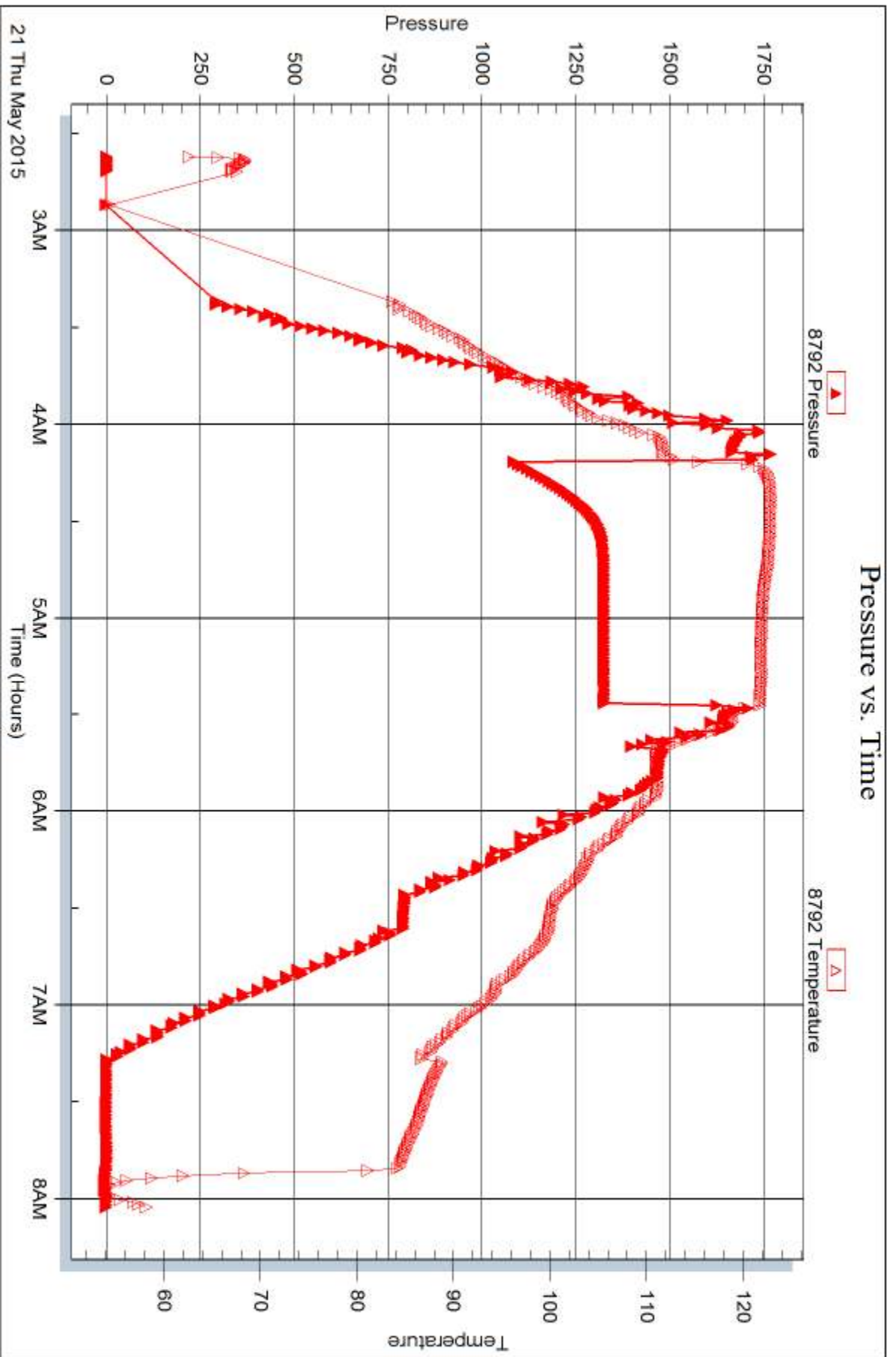


Serial #: 8792

Outside Lachenmayr Oil LLC.

Goodrich #L-1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 59975

Printed: 2015.05.22 @ 13:17:21



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59973

Well Name & No. Lachenmayer Oil LLC. (S) Test No. 1 Date 5-18-15
 Company Goodrich L-1 Elevation 1436 KB 1426 GL
 Address P.O. Box 526 Newton, KS 67114
 Co. Rep / Geo. Tyler Sanders Rig Southwind #8
 Location: Sec. 16 Twp. 25s Rge. 1E Co. Sedgwick State KS

Interval Tested 2959-3024 Zone Tested Miss.
 Anchor Length 65 Drill Pipe Run 2968 Mud Wt. 9.3
 Top Packer Depth 2954 Drill Collars Run Ø Vis 44
 Bottom Packer Depth 2959 Wt. Pipe Run Ø WL 9.2
 Total Depth 3024 Chlorides 1800 ppm System LCM Ø
 Blow Description IF: Strong blow, BoB @ 45 sec. IFT: No blow
FF: Strong blow, surf. - BoB @ 3 min. FST: No blow.

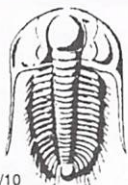
Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>GOWCM</u>	<u>5</u>	<u>30</u>	<u>65</u>	
<u>[redacted]</u>					
<u>[redacted]</u>					
<u>1360</u>	<u>GOCMW</u>	<u>2</u>	<u>93</u>	<u>5</u>	
<u>380</u>	<u>Clean Water</u>		<u>100</u>		

Rec Total 1920 BHT 116 Gravity N/c API RW 12 @ 51 °F Chlorides 90000 ppm

(A) Initial Hydrostatic <u>1451</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>2045</u>
(B) First Initial Flow <u>246</u>	<input type="checkbox"/> Jars	T-Started <u>2158</u>
(C) First Final Flow <u>828</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>2334</u>
(D) Initial Shut-In <u>914</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0135</u>
(E) Second Initial Flow <u>832</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0416</u>
(F) Second Final Flow <u>914</u>	<input checked="" type="checkbox"/> Mileage <u>198</u>	Comments _____
(G) Final Shut-In <u>915</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1421</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>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total _____
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total _____	

Approved By Tyler A. Sanders Our Representative Ryan Reynolds

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. 59974

Well Name & No. Goodrich L-1 Test No. 2 Date 5-20-15
 Company Lachenmayer Oil LLC. Elevation 1436 KB 1426 GL
 Address P.O. Box 526 Newton, KS 67114
 Co. Rep / Geo. Taylor Sanders Rig Southwind 8
 Location: Sec. 16 Twp. 25s Rge. 1E. Co. Sedgwick State KS

Interval Tested 3340 - 3346 Zone Tested Hunton
 Anchor Length 6 Drill Pipe Run 3350 Mud Wt. 9.3
 Top Packer Depth 3335 Drill Collars Run Ø Vis 53
 Bottom Packer Depth 3340 Wt. Pipe Run Ø WL 6.8
 Total Depth 3346 Chlorides 2200 ppm System LCM Ø
 Blow Description IF: Fair blow. 1/2" - 7" ISI: Weak surf. blow.
FF: Fair blow. surf. - 6" FSI:

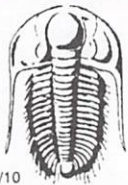
Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>GTP</u>				
<u>60</u>	<u>Clean Gassy Oil</u>	<u>10</u>	<u>90</u>		
<u>90</u>	<u>GOCMW</u>	<u>5</u>	<u>5</u>	<u>60</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 117 Gravity 38 API RW 15 @ 65 °F Chlorides 55000 ppm

(A) Initial Hydrostatic 1678 Test _____ T-On Location 0415
 (B) First Initial Flow 15 Jars _____ T-Started 0518
 (C) First Final Flow 43 Safety Joint _____ T-Open 0632
 (D) Initial Shut-In 1186 Circ Sub _____ T-Pulled 1017
 (E) Second Initial Flow 44 Hourly Standby _____ T-Out 1200
 (F) Second Final Flow 81 Mileage 198 Comments Stayed @ Motel 6
 (G) Final Shut-In 1185 Sampler _____ Park City
 (H) Final Hydrostatic 1615 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total _____
 Day Standby _____ Total _____
 Accessibility _____ MP/DST Disc't _____
 Sub Total _____

Approved By Taylor Sanders Our Representative Ryan Reynolds

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59975

Well Name & No. Goodrich L-1 Test No. 3 Date 5-21-15
 Company Lachenmayer Oil LLC. Elevation 1436 KB 1426 GL
 Address P.O. Box 526 Newton, KS 67114
 Co. Rep / Geo. Tyler Sanders Rig Southwind #8
 Location: Sec. 16 Twp. 35s Rge. 1E. Co. Sedgwick State KS

Interval Tested 3389-3413 Zone Tested Visla
 Anchor Length 24 Drill Pipe Run 3383 Mud Wt. 9.5
 Top Packer Depth 3384 Drill Collars Run Ø Vis 54
 Bottom Packer Depth 3389 Wt. Pipe Run Ø WL 7.2
 Total Depth 3413 Chlorides 1900 ppm System LCM 2#
 Blow Description IF: Strong blow BOB@30sec. ISF: No blow
FF: Weak blow. 1/2" - Dead@6min. FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2975</u>	<u>Water (Mudcut@top)</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 2975 BHT 122 Gravity N/C API RW 6 @ 48 °F Chlorides 16500 ppm

(A) Initial Hydrostatic <u>1722</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>0215</u>
(B) First Initial Flow <u>1084</u>	<input type="checkbox"/> Jars	T-Started <u>0242</u>
(C) First Final Flow <u>1323</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0412</u>
(D) Initial Shut-In <u>1324</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0536</u>
(E) Second Initial Flow <u>1324</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0803</u>
(F) Second Final Flow <u>1324</u>	<input checked="" type="checkbox"/> Mileage <u>198</u>	Comments
(G) Final Shut-In <u>1324</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1642</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>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder	Sub Total
Final Shut-In <u>5</u>	<input type="checkbox"/> Day Standby	Total
	<input type="checkbox"/> Accessibility	MP/DST Disc
	Sub Total	

Approved By Tyler Sanders Our Representative Ryan Reynolds

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