



DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration LLC**

204 West Mills St
Plainville, KS 67663

ATTN: Justin Prater

Moore #22-1

22-12s-33w Logan,KS

Start Date: 2016.02.08 @ 19:53:51

End Date: 2016.02.09 @ 01:45:06

Job Ticket #: DST #: 1

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

Printed: 2016.02.15 @ 11:53:17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: **DST#: 1**

ATTN: Justin Prater

Test Start: 2016.02.08 @ 19:53:51

GENERAL INFORMATION:

Formation: **LKC J-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:12:36
 Time Test Ended: 01:45:06
 Interval: **4252.00 ft (KB) To 4300.00 ft (KB) (TVD)**
 Total Depth: 4300.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3096.00 ft (KB)
 3091.00 ft (CF)
 KB to GR/CF: 5.00 ft

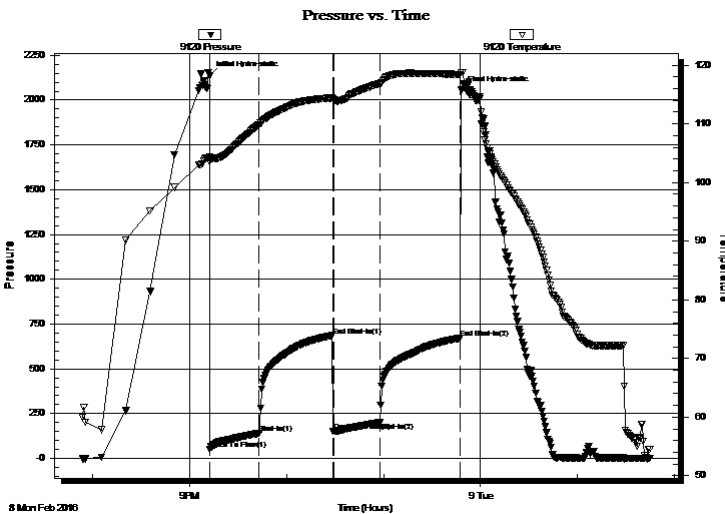
Serial #: 9120

Outside

Press@RunDepth: 199.36 psig @ 4253.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.02.08 End Date: 2016.02.09 Last Calib.: 2016.02.09
 Start Time: 19:53:51 End Time: 01:45:06 Time On Btm: 2016.02.08 @ 21:12:21
 Time Off Btm: 2016.02.08 @ 23:48:06

TEST COMMENT: B.O.B. in 17 min
 No return
 B.O.B. 28 min
 No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.98	104.30	Initial Hydro-static
1	49.88	103.58	Open To Flow (1)
31	140.41	109.90	Shut-In(1)
76	685.30	114.42	End Shut-In(1)
77	149.81	114.17	Open To Flow (2)
106	199.36	116.84	Shut-In(2)
155	670.93	118.37	End Shut-In(2)
156	2055.82	118.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	water w/oil spots 100%w	1.43
60.00	s m c w w/oil scum 10%m 90%w	0.84
133.00	m c w w/heavy oil scum	1.87
2.00	free oil	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket:

DST#: 1

ATTN: Justin Prater

Test Start: 2016.02.08 @ 19:53:51

Tool Information

Drill Pipe:	Length: 4113.00 ft	Diameter: 3.80 inches	Volume: 57.69 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 58.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4252.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4225.00	
Shut In Tool	5.00			4230.00	
Hydraulic tool	5.00			4235.00	
Jars	5.00			4240.00	
Safety Joint	3.00			4243.00	
Packer	5.00			4248.00	28.00 Bottom Of Top Packer
Packer	4.00			4252.00	
Stubb	1.00			4253.00	
Recorder	0.00	9120	Outside	4253.00	
Recorder	0.00	8938	Inside	4253.00	
Perforations	8.00			4261.00	
Change Over Sub	1.00			4262.00	
Drill Pipe	32.00			4294.00	
Change Over Sub	1.00			4295.00	
Bullnose	5.00			4300.00	48.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: **DST#: 1**

ATTN: Justin Prater

Test Start: 2016.02.08 @ 19:53:51

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:

29000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 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
180.00	water w /oil spots 100%w	1.432
60.00	s m c w w /oil scum 10%m 90%w	0.842
133.00	m c w w /heavy oil scum	1.866
2.00	free oil	0.028

Total Length: 375.00 ft Total Volume: 4.168 bbl

Num Fluid Samples: 0

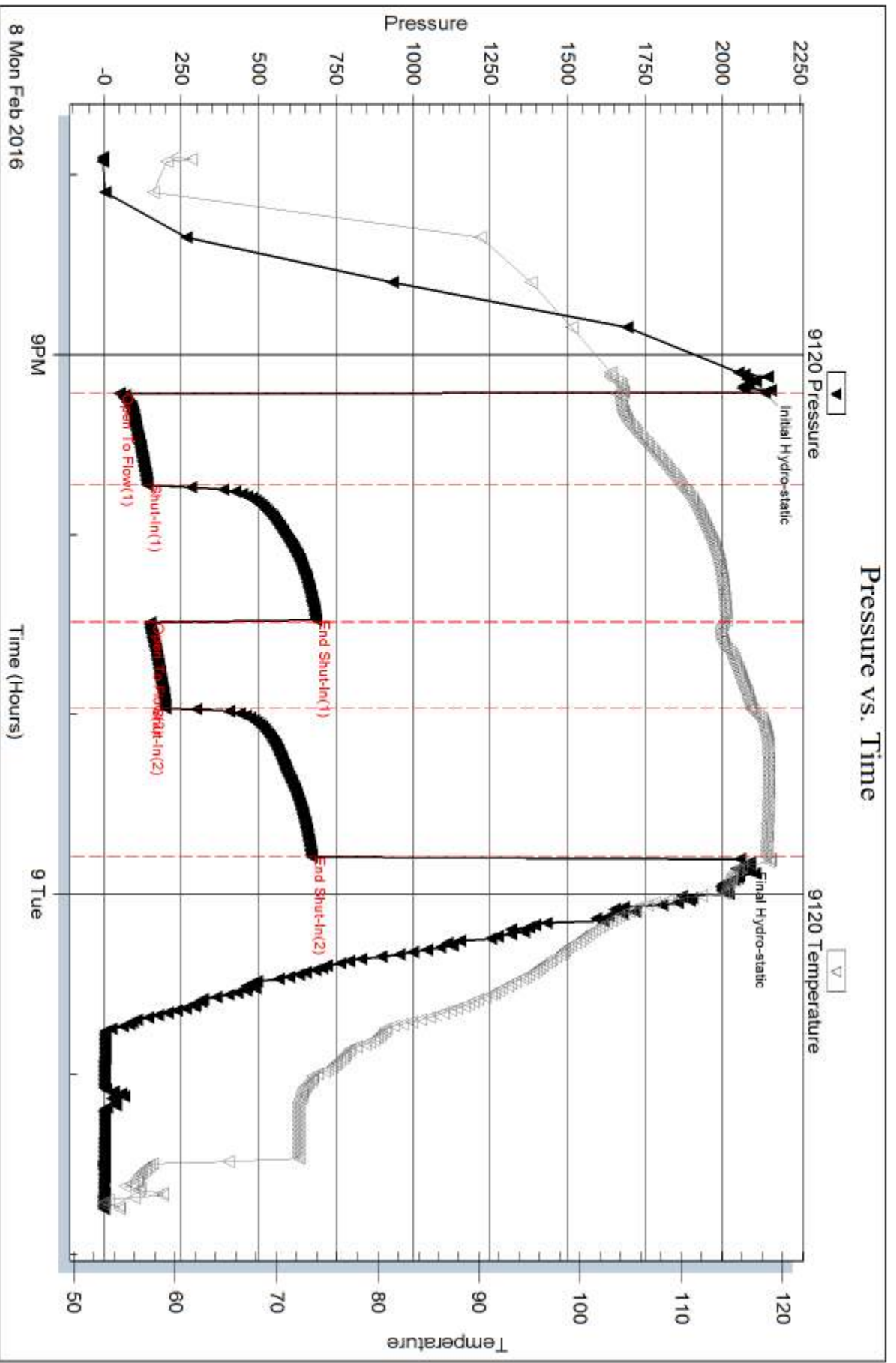
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .309 @ 57*f= 29,000





DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration LLC**

204 West Mills St
Plainville, KS 67663

ATTN: Justin Prater

Moore #22-1

22-12s-33w Logan,KS

Start Date: 2016.02.10 @ 18:03:47

End Date: 2016.02.10 @ 23:46:32

Job Ticket #: 59703 DST #: 2

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

Printed: 2016.02.15 @ 11:52:20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: 59703

DST#: 2

ATTN: Justin Prater

Test Start: 2016.02.10 @ 18:03:47

GENERAL INFORMATION:

Formation: **Cherokee - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:57:47

Time Test Ended: 23:46:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4554.00 ft (KB) To 4632.00 ft (KB) (TVD)

Reference Elevations: 3096.00 ft (KB)

Total Depth: 4632.00 ft (KB) (TVD)

3091.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 9120 Outside

Press@RunDepth: 33.91 psig @ 4555.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.10 End Date: 2016.02.10

Last Calib.: 2016.02.10

Start Time: 18:03:47 End Time: 23:46:32

Time On Btm: 2016.02.10 @ 19:57:32

Time Off Btm: 2016.02.10 @ 22:01:02

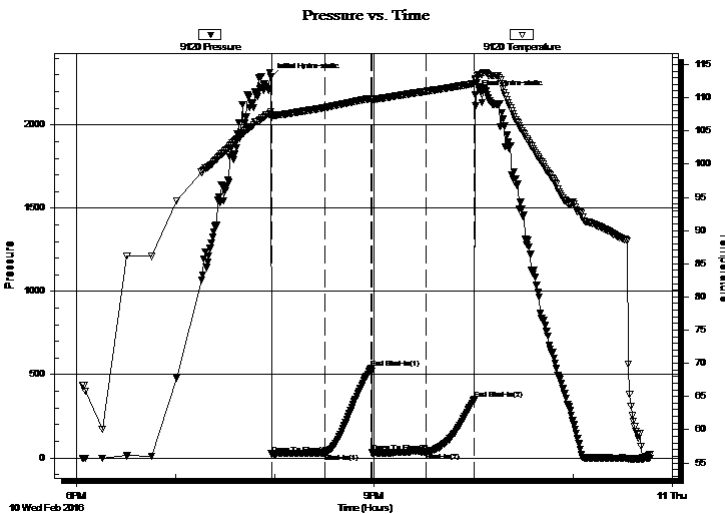
TEST COMMENT: 1/4" blow died back to surface blow

No return

No blow

No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2287.56	107.94	Initial Hydro-static
1	24.50	107.08	Open To Flow (1)
33	29.87	108.53	Shut-In(1)
61	539.36	109.90	End Shut-In(1)
61	31.24	109.71	Open To Flow (2)
94	33.91	110.94	Shut-In(2)
123	353.06	112.13	End Shut-In(2)
124	2184.42	112.77	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

TOOL DIAGRAM

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: 59703

DST#: 2

ATTN: Justin Prater

Test Start: 2016.02.10 @ 18:03:47

Tool Information

Drill Pipe:	Length: 4426.00 ft	Diameter: 3.80 inches	Volume: 62.09 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4554.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4527.00	
Shut In Tool	5.00			4532.00	
Hydraulic tool	5.00			4537.00	
Jars	5.00			4542.00	
Safety Joint	3.00			4545.00	
Packer	5.00			4550.00	28.00 Bottom Of Top Packer
Packer	4.00			4554.00	
Stubb	1.00			4555.00	
Recorder	0.00	9120	Outside	4555.00	
Recorder	0.00	8938	Inside	4555.00	
Perforations	7.00			4562.00	
Change Over Sub	1.00			4563.00	
Drill Pipe	63.00			4626.00	
Change Over Sub	1.00			4627.00	
Bullnose	5.00			4632.00	78.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: 59703

DST#: 2

ATTN: Justin Prater

Test Start: 2016.02.10 @ 18:03:47

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 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

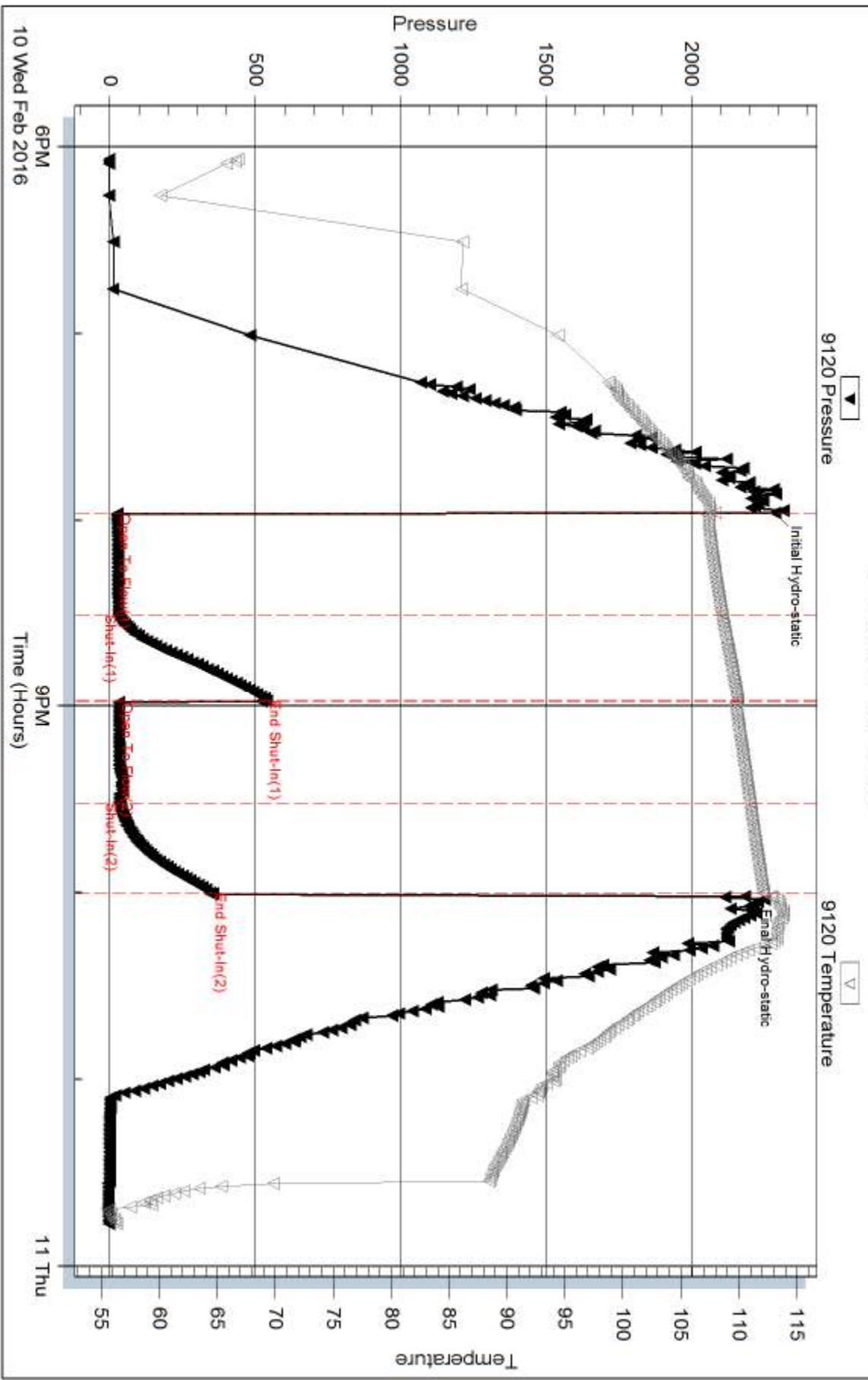
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



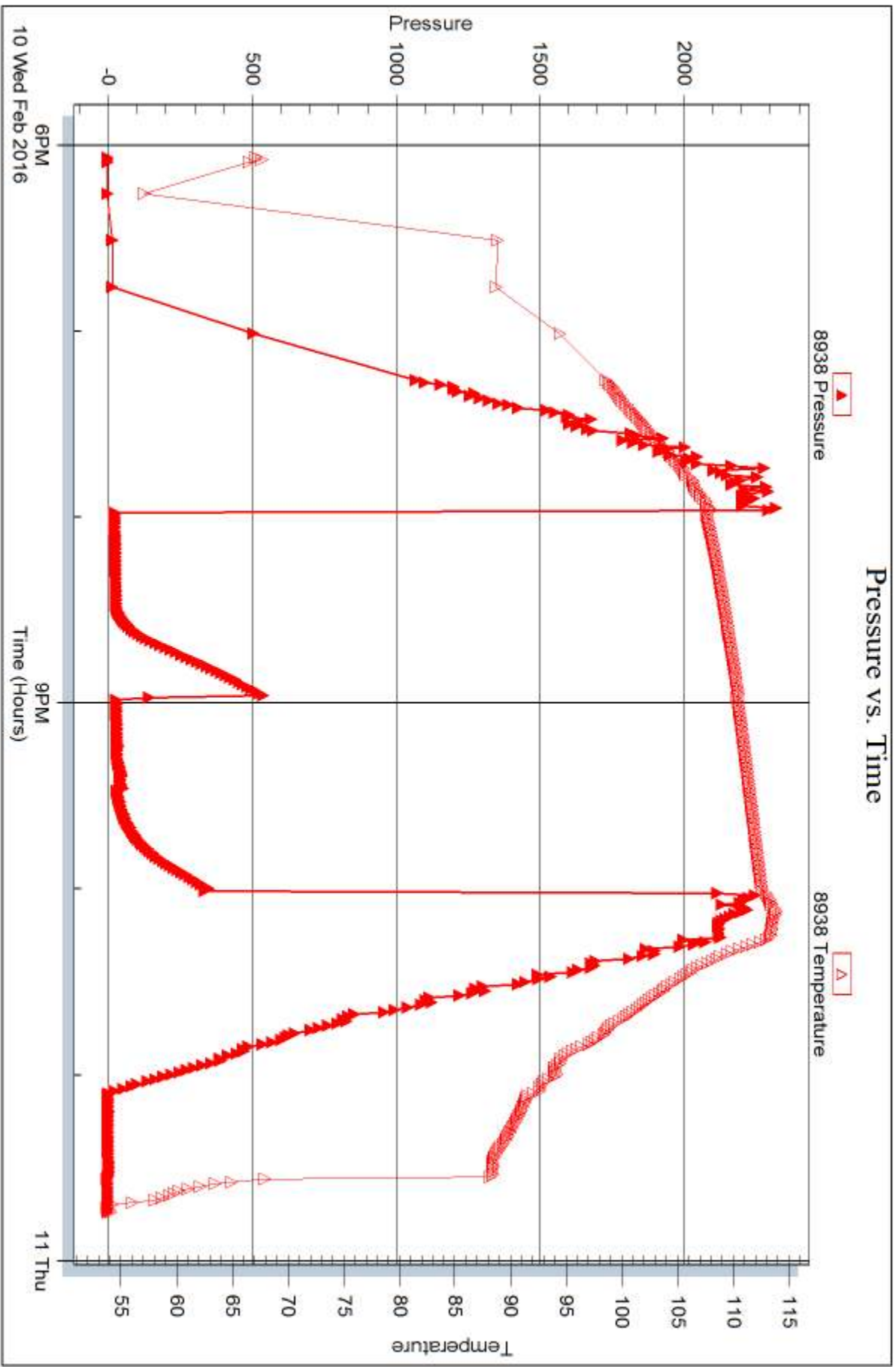
Serial #: 8938

Inside

Stratakan Exploration LLC

Moore #22-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 59703

Printed: 2016.02.15 @ 11:52:22



DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration LLC**

204 West Mills St
Plainville, KS 67663

ATTN: Justin Prater

Moore #22-1

22-12s-33w Logan,KS

Start Date: 2016.02.11 @ 12:15:35

End Date: 2016.02.11 @ 19:37:20

Job Ticket #: 64651 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.02.15 @ 11:50:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stratakan Exploration LLC

22-12s-33w Logan, KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: 64651

DST#: 3

ATTN: Justin Prater

Test Start: 2016.02.11 @ 12:15:35

GENERAL INFORMATION:

Formation: **Lower Johnson - Morr**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:05:20

Time Test Ended: 19:37:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4632.00 ft (KB) To 4706.00 ft (KB) (TVD)

Reference Elevations: 3096.00 ft (KB)

Total Depth: 4706.00 ft (KB) (TVD)

3091.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 9120 Outside

Press@RunDepth: 63.90 psig @ 4633.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.11

End Date:

2016.02.11

Last Calib.:

2016.02.11

Start Time: 12:15:35

End Time:

19:37:20

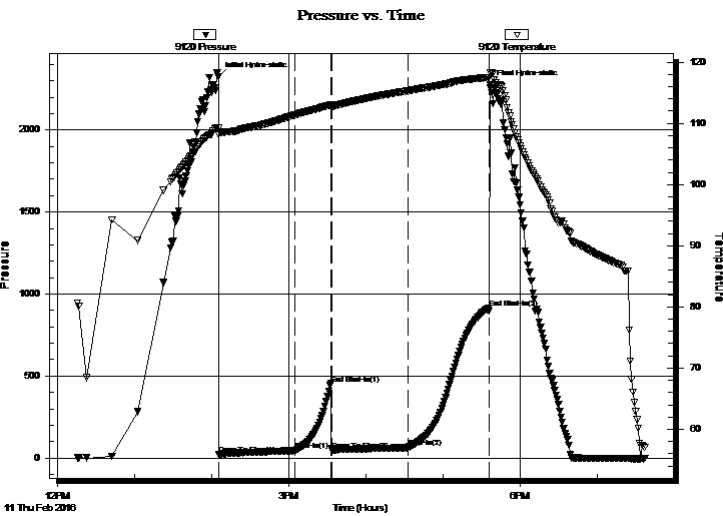
Time On Btm:

2016.02.11 @ 14:05:05

Time Off Btm:

2016.02.11 @ 17:36:50

TEST COMMENT: Surface blow built to 1" , died back to 1/2"
No return
Surface blow in 4 min., built to 1/2"
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2325.75	109.23	Initial Hydro-static
1	22.67	108.14	Open To Flow (1)
60	45.82	111.34	Shut-In(1)
88	452.86	113.01	End Shut-In(1)
89	47.41	112.81	Open To Flow (2)
148	63.90	115.31	Shut-In(2)
211	916.07	117.51	End Shut-In(2)
212	2275.84	118.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	s o c m 5%o 95%m	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: 64651

DST#: 3

ATTN: Justin Prater

Test Start: 2016.02.11 @ 12:15:35

Tool Information

Drill Pipe:	Length: 4489.00 ft	Diameter: 3.80 inches	Volume: 62.97 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4632.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4605.00	
Shut In Tool	5.00			4610.00	
Hydraulic tool	5.00			4615.00	
Jars	5.00			4620.00	
Safety Joint	3.00			4623.00	
Packer	5.00			4628.00	28.00 Bottom Of Top Packer
Packer	4.00			4632.00	
Stubb	1.00			4633.00	
Recorder	0.00	9120	Outside	4633.00	
Recorder	0.00	8938	Inside	4633.00	
Perforations	34.00			4667.00	
Change Over Sub	1.00			4668.00	
Drill Pipe	32.00			4700.00	
Change Over Sub	1.00			4701.00	
Bullnose	5.00			4706.00	74.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: 64651

DST#: 3

ATTN: Justin Prater

Test Start: 2016.02.11 @ 12:15:35

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	s o c m 5%o 95%m	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

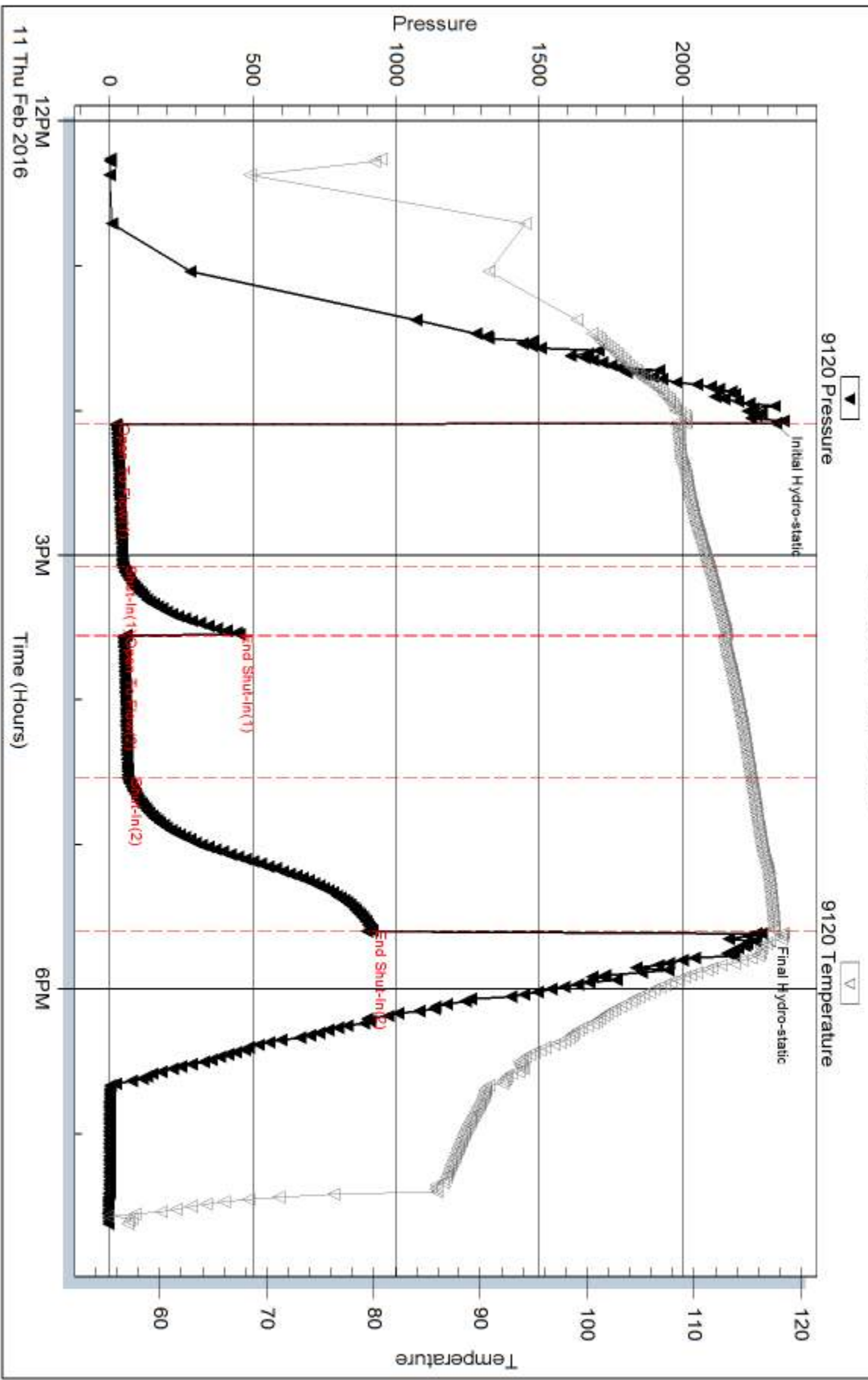
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



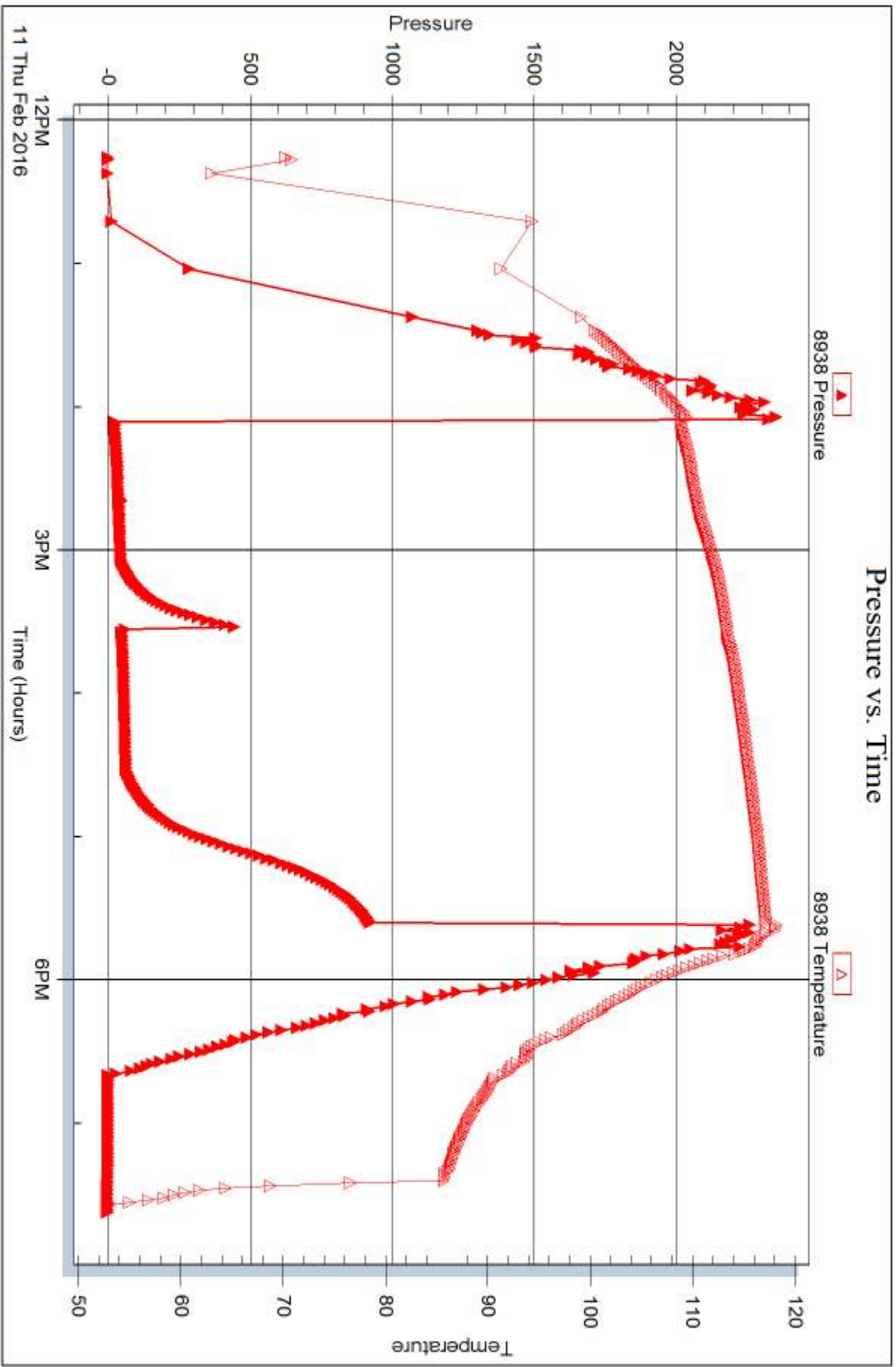
Serial #: 8938

Inside

Stratakan Exploration LLC

Moore #22-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64651

Printed: 2016.02.15 @ 11:50:56



DRILL STEM TEST REPORT

Prepared For: **Stratakan Exploration LLC**

204 West Mills St
Plainville, KS 67663

ATTN: Justin Prater

Moore #22-1

22-12s-33w Logan,KS

Start Date: 2016.02.12 @ 13:23:01

End Date: 2016.02.12 @ 21:42:31

Job Ticket #: 64652 DST #: 4

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

Printed: 2016.02.15 @ 11:49:20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: 64652

DST#: 4

ATTN: Justin Prater

Test Start: 2016.02.12 @ 13:23:01

GENERAL INFORMATION:

Formation: **Myrick St - Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:08:46

Time Test Ended: 21:42:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4500.00 ft (KB) To 4550.00 ft (KB) (TVD)

Reference Elevations: 3096.00 ft (KB)

Total Depth: 4800.00 ft (KB) (TVD)

3091.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 9120 Outside

Press@RunDepth: 208.10 psig @ 4501.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.12

End Date:

2016.02.12

Last Calib.:

2016.02.12

Start Time: 13:23:01

End Time:

21:42:31

Time On Btm:

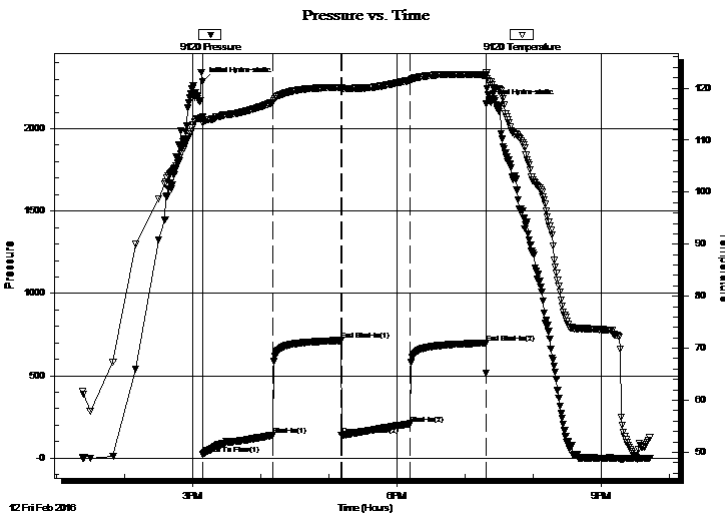
2016.02.12 @ 15:08:31

Time Off Btm:

2016.02.12 @ 19:18:46

TEST COMMENT: 7" blow
No return
5" blow
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.81	114.46	Initial Hydro-static
1	23.03	113.31	Open To Flow (1)
62	139.24	117.28	Shut-In(1)
122	714.49	120.17	End Shut-In(1)
123	139.47	119.84	Open To Flow (2)
183	208.10	121.51	Shut-In(2)
250	699.19	122.52	End Shut-In(2)
251	2151.62	123.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	m c w 35% m 65% w oil spots on top	0.52
120.00	s m c w 10% m 90% w	1.55
180.00	water 100% w	2.52

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: 64652

DST#: 4

ATTN: Justin Prater

Test Start: 2016.02.12 @ 13:23:01

Tool Information

Drill Pipe:	Length: 4365.00 ft	Diameter: 3.80 inches	Volume: 61.23 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4500.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	300.00 ft			
Tool Length:	328.00 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			4473.00	
Shut In Tool	5.00			4478.00	
Hydraulic tool	5.00			4483.00	
Jars	5.00			4488.00	
Safety Joint	3.00			4491.00	
Packer	5.00			4496.00	28.00 Bottom Of Top Packer
Packer	4.00			4500.00	
Stubb	1.00			4501.00	
Recorder	0.00	9120	Outside	4501.00	
Recorder	0.00	8938	Inside	4501.00	
Perforations	3.00			4504.00	
Change Over Sub	1.00			4505.00	
Drill Pipe	32.00			4537.00	
Change Over Sub	1.00			4538.00	
Perforations	8.00			4546.00	
Blank Off Sub	1.00			4547.00	
top of S packer	3.00			4550.00	300.00 Tool Interval
Packer	0.00			4550.00	
Stubb	1.00			4551.00	
Recorder	0.00	8353	Below	4551.00	
Anchor	20.00			4571.00	
Change Over Sub	1.00			4572.00	
Drill Pipe	222.00			4794.00	
Change Over Sub	1.00			4795.00	
Bullnose	5.00			4800.00	1000327.00 Bottom Packers & Anchor

Total Tool Length: 328.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stratakan Exploration LLC

22-12s-33w Logan,KS

204 West Mills St
Plainville, KS 67663

Moore #22-1

Job Ticket: 64652

DST#: 4

ATTN: Justin Prater

Test Start: 2016.02.12 @ 13:23:01

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:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 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 bbbl
105.00	m c w 35%m 65%w oil spots on top	0.516
120.00	s m c w 10%m 90%w	1.547
180.00	w ater 100%w	2.525

Total Length: 405.00 ft Total Volume: 4.588 bbl

Num Fluid Samples: 0

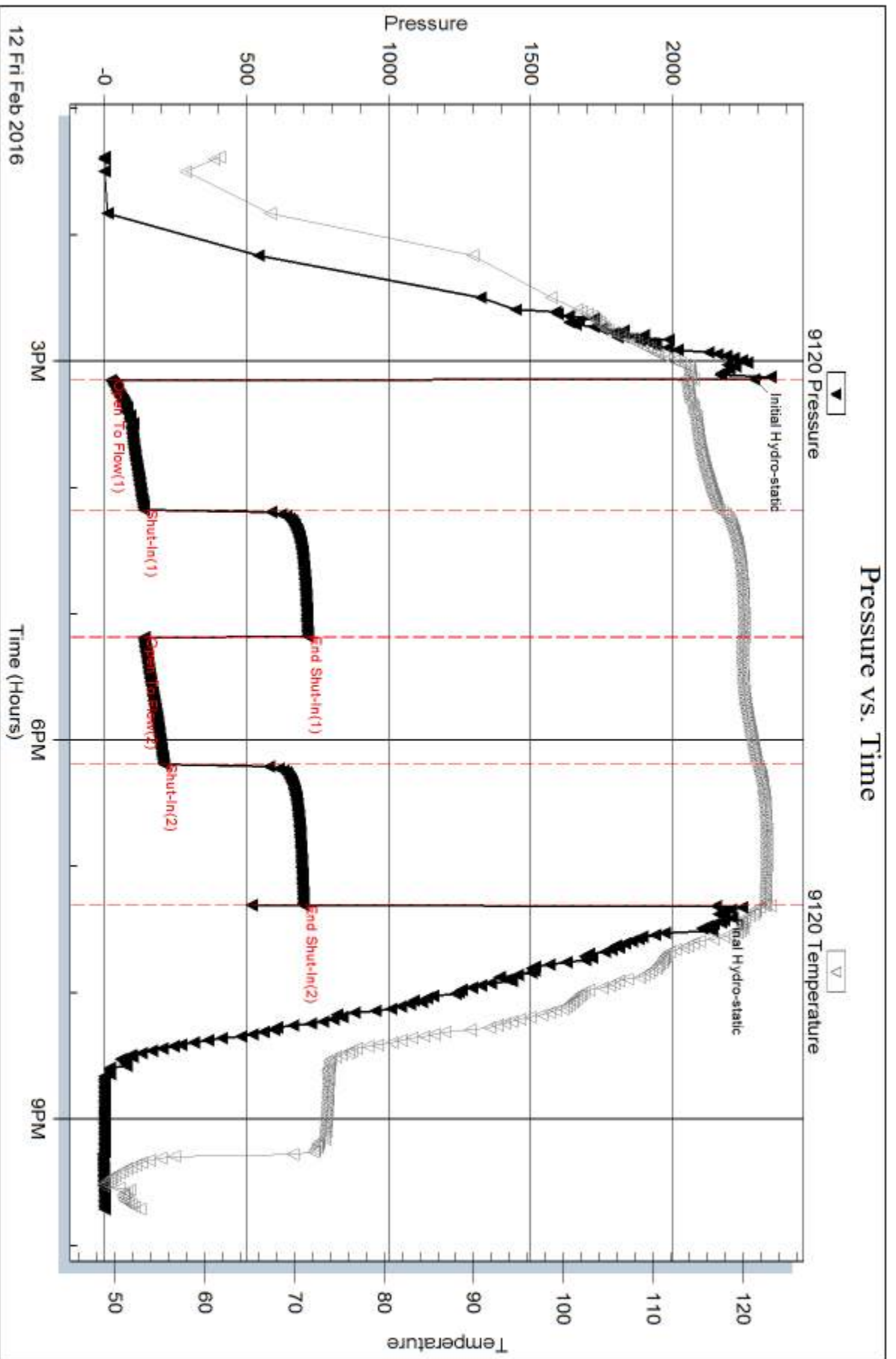
Num Gas Bombs: 0

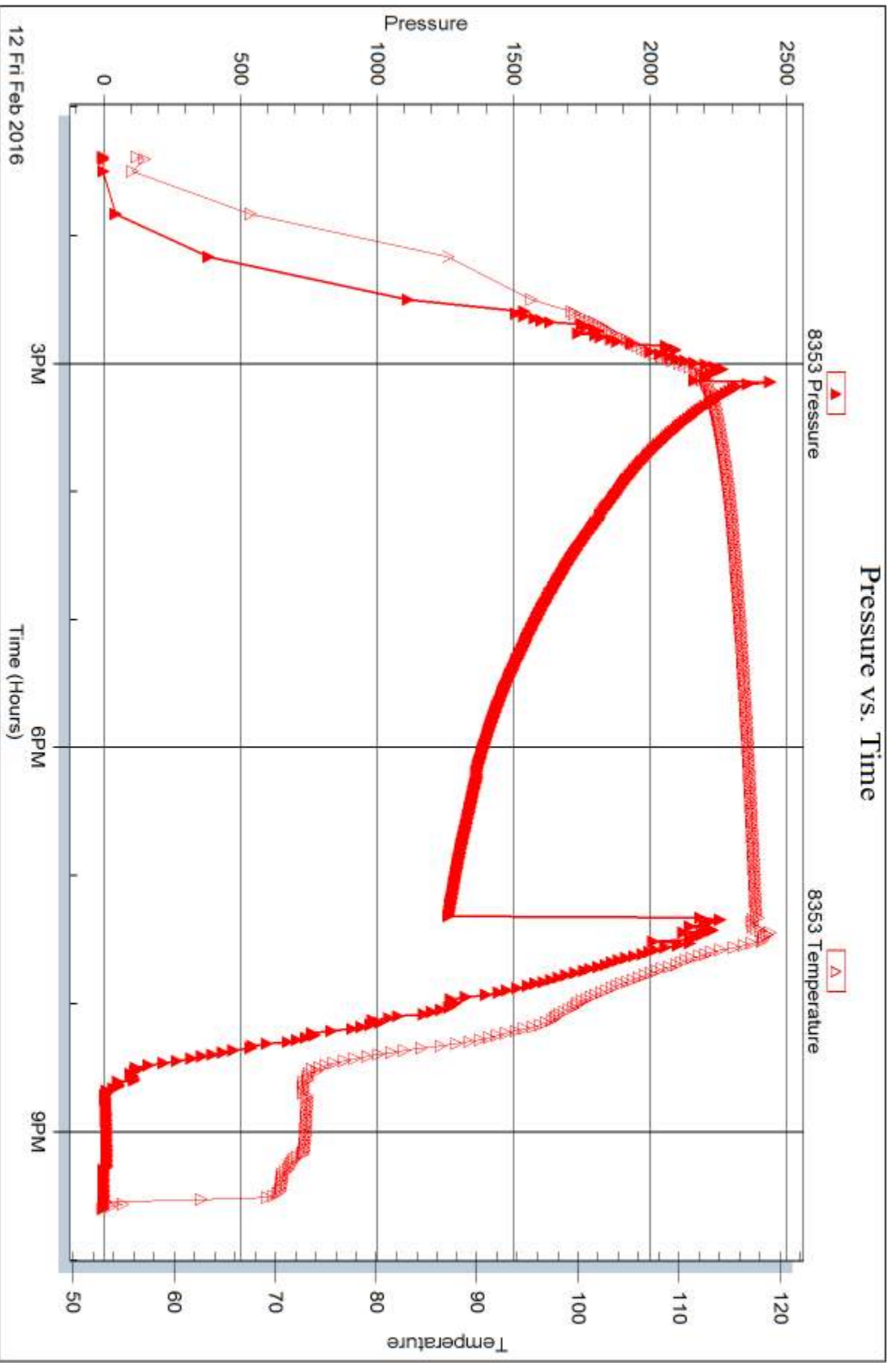
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





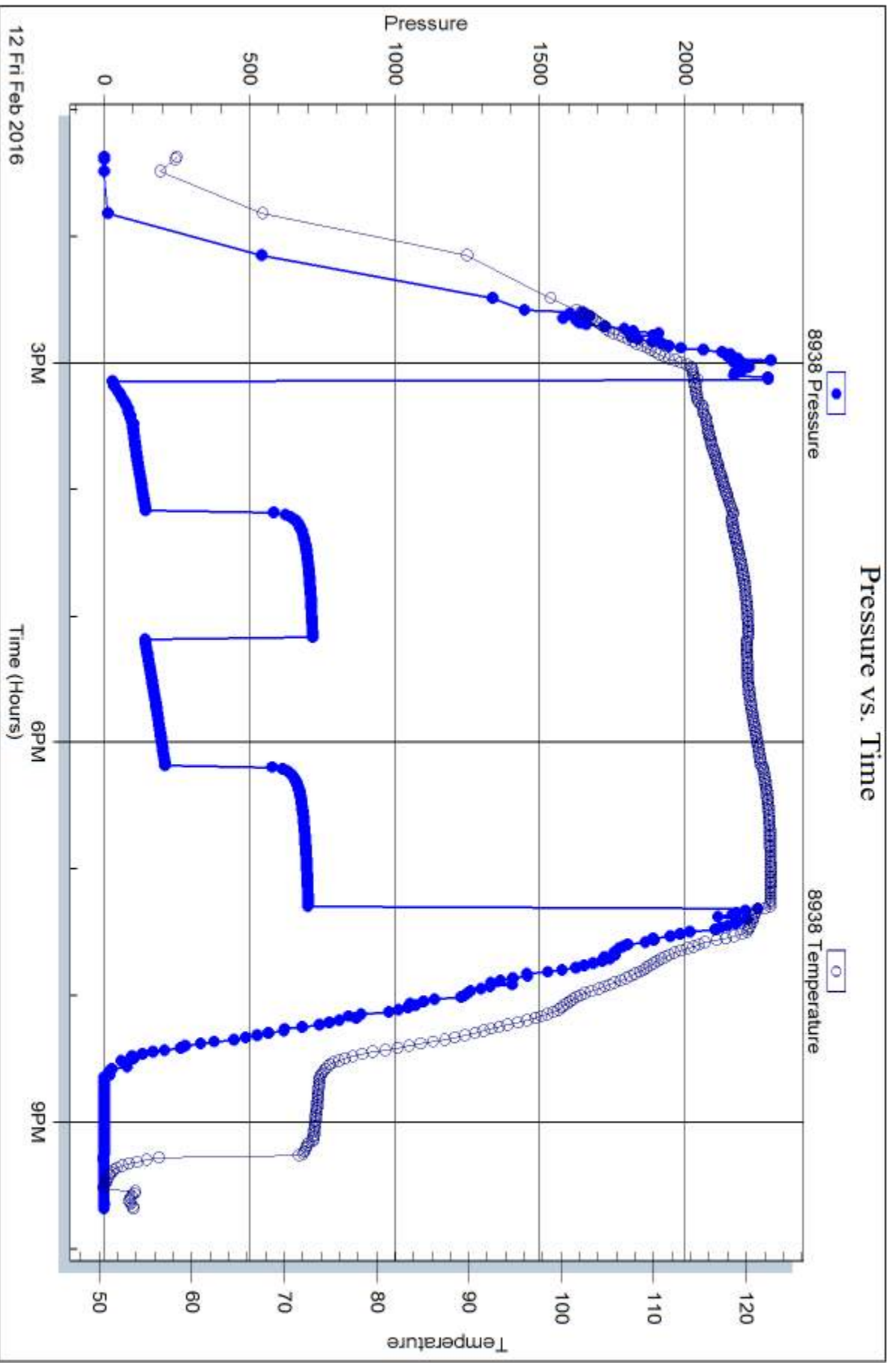
Serial #: 8938

Inside

Stratakan Exploration LLC

Moore #22-1

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 64652

Printed: 2016.02.15 @ 11:49:23

Well Name & No. Moore #22-1 Test No. #1 Date 2/19/14
 Company StrataKun Exploration LLC Elevation 3096 KB 3021 GL
 Address 204 West Mills St. Plumville, KS 67663
 Co. Rep / Geo. Boston Porter Rig WW #10
 Location: Sec. 22 Twp. 12S Rge. 33W Co. Logan State KS

Interval Tested 4232 4300 Zone Tested J-K
 Anchor Length 48 Drill Pipe Run 4113' Mud Wt. 9.1
 Top Packer Depth 4247 Drill Collars Run 120' Vis 62
 Bottom Packer Depth 4232 Wt. Pipe Run --- WL 8.8
 Total Depth 4300 Chlorides 2500 ppm System LCM #1 1/2

Blow Description B.O.B. in 17 min
No return
B.O.B. in 28 min
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>free oil</u>				
<u>133</u>	<u>MCW w/ Heavy oil scum</u>		<u>scum</u>	<u>65</u>	<u>35</u>
<u>60'</u>	<u>SMCW w/ oil scum</u>		<u>scum</u>	<u>90</u>	<u>10</u>
<u>180'</u>	<u>water w/ oil spots</u>		<u>spots</u>	<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 375' BHT 119° Gravity --- API RW 309 @ 57 ° F Chlorides 29000 ppm

(A) Initial Hydrostatic <u>2134</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>19:30</u>
(B) First Initial Flow <u>49</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>19:53</u>
(C) First Final Flow <u>140</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>21:13</u>
(D) Initial Shut-In <u>685</u>	<input checked="" type="checkbox"/> Circ Sub <u>n/c</u>	T-Pulled <u>23:45</u>
(E) Second Initial Flow <u>149</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>01:50</u>
(F) Second Final Flow <u>199</u>	<input checked="" type="checkbox"/> Mileage <u>90 RT</u> <u>90</u>	Comments
(G) Final Shut-In <u>670</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2055</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>43</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>36</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1815</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1815</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59703

4/10

Well Name & No. Moore #22-1 Test No. #2 Date 2/10/14
 Company StrataRant Exploration LLC Elevation 3096 KB 3091 GL
 Address 204 West Wells Plainville, KS 67663
 Co. Rep / Geo. Justin Kuster Rig WUW#10
 Location: Sec. 22 Twp. 12S Rge. 33W Co. Jogon State Ks

Interval Tested 4554 4632 Zone Tested Cherokee - Johnson
 Anchor Length 78' Drill Pipe Run 4426' Mud Wt. 9.4
 Top Packer Depth 4549 Drill Collars Run 120' Vis 51
 Bottom Packer Depth 4554 Wt. Pipe Run --- WL 8.8
 Total Depth 4632 Chlorides 5500 ppm System LCM #1 1/2
 Blow Description 1/4" in blow died back to a surface blow
No return
No blow
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 113° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2287</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>18:00</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:03</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:58</u>
(D) Initial Shut-In <u>539</u>	<input checked="" type="checkbox"/> Circ Sub <u>n/c</u>	T-Pulled <u>21:58</u>
(E) Second Initial Flow <u>31</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>23:45</u>
(F) Second Final Flow <u>33</u>	<input checked="" type="checkbox"/> Mileage <u>9025</u> <u>90</u>	Comments <u>---</u>
(G) Final Shut-In <u>353</u>	<input type="checkbox"/> Sampler <u>---</u>	
(H) Final Hydrostatic <u>2184</u>	<input type="checkbox"/> Straddle <u>---</u>	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>---</u>	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility <u>---</u>	Total <u>1815</u>
Final Shut-In <u>30</u>		MP/DST Disc't <u>---</u>

Sub Total 1815

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64651**

Well Name & No. Moore #22-1 Test No. #3 Date 2/11/16
 Company StrataKane Exploration LLC Elevation 3096 KB 3071 GL
 Address 204 West 7 Mills St Plainville, KS 67663
 Co. Rep / Geo. Justin Prober Rig WELL 10
 Location: Sec. 22 Twp. 12 Rge. 33 Co. Logan State KS

Interval Tested 4632 4764 Zone Tested Lower Johnson - Morrow
 Anchor Length 71 Drill Pipe Run 4489 Mud Wt. 9.2
 Top Packer Depth 4627 Drill Collars Run 170 Vis 52
 Bottom Packer Depth 4632 Wt. Pipe Run --- WL 8.4
 Total Depth 4706 Chlorides 4500 ppm System LCM #1/2
 Blow Description 1" sw blow dried back to 1/2" and
no return
1/2" sw blow
no return

Rec	Feet of	%gas	%oil	%water	%mud
<u>65'</u>	<u>50cm</u>		<u>5</u>		<u>95</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 65' BHT 118° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2325</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>11530</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:15</u>
(C) First Final Flow <u>45</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:05</u>
(D) Initial Shut-In <u>452</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>17:30</u>
(E) Second Initial Flow <u>47</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>19:37</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>90RT</u> <u>90</u>	Comments <u>---</u>
(G) Final Shut-In <u>914</u>	<input type="checkbox"/> Sampler <u>---</u>	
(H) Final Hydrostatic <u>2275</u>	<input type="checkbox"/> Straddle <u>---</u>	
Initial Open <u>60</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>---</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>---</u>	Total <u>1815</u>
	Sub Total <u>1815</u>	MP/DST Disc't <u>---</u>

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64652**

Well Name & No. Moric # 22-1 Test No. #2 Date 2/12/16
 Company StrataKam Exploration LLC Elevation 3096 KB 3091 GL
 Address 204 West Mills St Plainsville KS 67643
 Co. Rep / Geo. Justin Prater Rig WVW #10
 Location: Sec. 22 Twp. 12S Rge. 33W Co. Wyand State KS

Interval Tested 4500 4550 Zone Tested Morick St. Pt. Scott
 Anchor Length 50 Drill Pipe Run 4365 Mud Wt. 9.1
 Top Packer Depth 4495 Drill Collars Run 120 Vis 62
 Bottom Packer Depth 4500 4550 Wt. Pipe Run --- WL 8.8
 Total Depth 4800 Chlorides 2500 ppm System LCM #1 1/2
 Blow Description 7" w blow
No return
5" w blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>105</u>	<u>Feet of mcrw (oil spot on top)</u>		<u>65</u>	<u>35</u>	
<u>120</u>	<u>Feet of smcrw</u>		<u>90</u>	<u>10</u>	
<u>180</u>	<u>Feet of water</u>		<u>100</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 405' BHT 123° Gravity --- API RW 317 @ 45 ° F Chlorides 33,500 ppm

- (A) Initial Hydrostatic 2286
- (B) First Initial Flow 23
- (C) First Final Flow 139
- (D) Initial Shut-In 714
- (E) Second Initial Flow 139
- (F) Second Final Flow 208
- (G) Final Shut-In 699
- (H) Final Hydrostatic 2151

- Test 1150
- Jars 250
- Safety Joint 75
- Circ Sub N/C
- Hourly Standby
- Mileage 90 at 90
- Sampler
- Straddle 600
- Shale Packer X2 500
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2665

- T-On Location
- T-Started 13123
- T-Open 15:00
- T-Pulled 19:08
- T-Out 21:45
- Comments Released, hoisted
@ 22:30 2/12/16
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 2665
- MP/DST Disc't

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

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