



DRILL STEM TEST REPORT

Prepared For: **RF Hembree Oil, LLC.**

PO Box 542
Ness City KS 67560+0542

ATTN: Wyatt Urban

Schwartzkopf #3

35-18S-24W Ness,KS

Start Date: 2018.04.02 @ 01:36:15

End Date: 2018.04.02 @ 10:09:30

Job Ticket #: 63770 DST #: 1

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

Printed: 2018.04.04 @ 16:45:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

RF Hembree Oil, LLC.
 PO Box 542
 Ness City KS 67560+0542
 ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
 Job Ticket: 63770 **DST#: 1**
 Test Start: 2018.04.02 @ 01:36:15

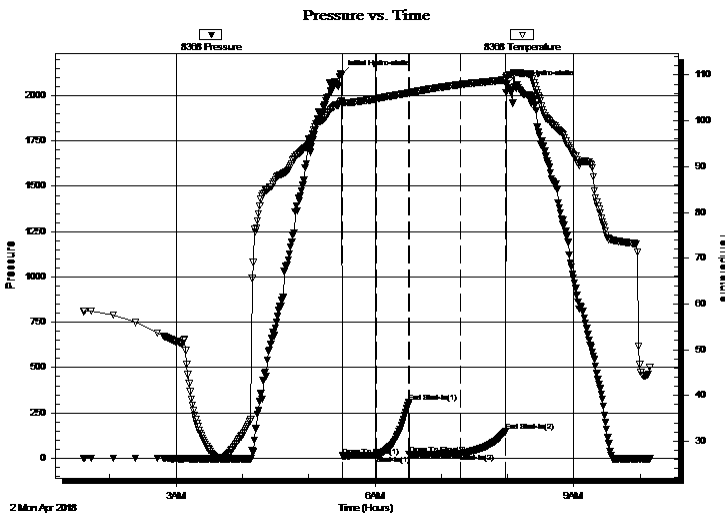
GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:30:30
 Time Test Ended: 10:09:30
 Interval: **4192.00 ft (KB) To 4242.00 ft (KB) (TVD)**
 Total Depth: 4242.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2297.00 ft (KB)
 2290.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8368 **Inside**
 Press@RunDepth: 24.87 psig @ 4196.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.02 End Date: 2018.04.02 Last Calib.: 2018.04.02
 Start Time: 01:36:15 End Time: 10:09:30 Time On Btm: 2018.04.02 @ 05:29:45
 Time Off Btm: 2018.04.02 @ 07:59:15

TEST COMMENT: 30-IF-Weak Blow ; Built to 1 1/2"
 30-ISI-No Return
 45-FF-Weak Blow ; Built to 1/2"
 45-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.49	104.32	Initial Hydro-static
1	12.40	103.90	Open To Flow (1)
32	16.95	104.83	Shut-In(1)
61	307.21	106.09	End Shut-In(1)
62	19.54	105.96	Open To Flow (2)
108	24.87	107.93	Shut-In(2)
149	147.98	108.93	End Shut-In(2)
150	2058.18	109.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/oil specks	0.05

Gas Rates

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



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DRILL STEM TEST REPORT

RF Hembree Oil, LLC.
 PO Box 542
 Ness City KS 67560+0542
 ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
 Job Ticket: 63770 **DST#: 1**
 Test Start: 2018.04.02 @ 01:36:15

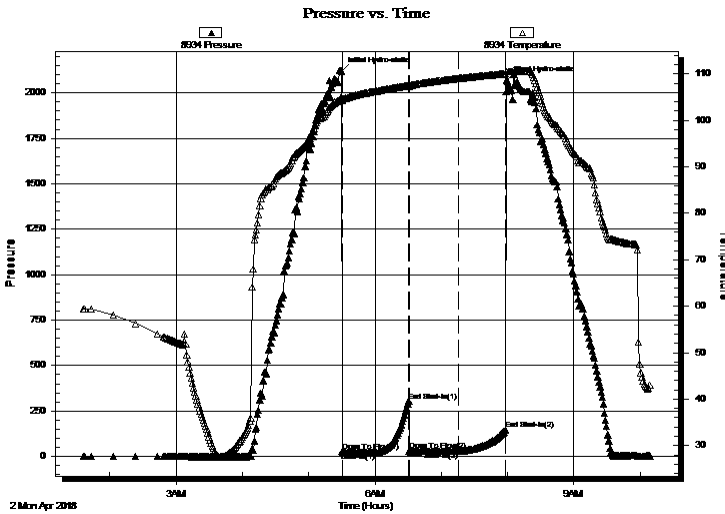
GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:30:30
 Time Test Ended: 10:09:30
 Interval: **4192.00 ft (KB) To 4242.00 ft (KB) (TVD)**
 Total Depth: 4242.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2297.00 ft (KB)
 2290.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8934 **Inside**
 Press@RunDepth: 146.84 psig @ 4196.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.02 End Date: 2018.04.02 Last Calib.: 2018.04.02
 Start Time: 01:36:15 End Time: 10:09:30 Time On Btm: 2018.04.02 @ 05:30:00
 Time Off Btm: 2018.04.02 @ 07:59:30

TEST COMMENT: 30-IF-Weak Blow ; Built to 1 1/2"
 30-ISI-No Return
 45-FF-Weak Blow ; Built to 1/2"
 45-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.64	105.03	Initial Hydro-static
1	28.44	104.31	Open To Flow (1)
31	22.86	106.24	Shut-In(1)
61	303.96	107.51	End Shut-In(1)
61	30.90	107.36	Open To Flow (2)
106	29.07	109.01	Shut-In(2)
149	146.84	110.05	End Shut-In(2)
150	2067.67	110.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/oil specks	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RF Hembree Oil, LLC.
PO Box 542
Ness City KS 67560+0542
ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
Job Ticket: 63770 **DST#: 1**
Test Start: 2018.04.02 @ 01:36:15

Tool Information

Drill Pipe:	Length: 4062.00 ft	Diameter: 3.80 inches	Volume: 56.98 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 57.58 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4192.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	70.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4173.00	
Shut In Tool	5.00			4178.00	
Hydraulic tool	5.00			4183.00	
Packer	5.00			4188.00	20.00 Bottom Of Top Packer
Packer	4.00			4192.00	
Stubb	1.00			4193.00	
Perforations	2.00			4195.00	
Change Over Sub	1.00			4196.00	
Recorder	0.00	8368	Inside	4196.00	
Recorder	0.00	8934	Inside	4196.00	
Drill Pipe	31.00			4227.00	
Change Over Sub	1.00			4228.00	
Perforations	11.00			4239.00	
Bullnose	3.00			4242.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

RF Hembree Oil, LLC.
PO Box 542
Ness City KS 67560+0542
ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
Job Ticket: 63770 **DST#: 1**
Test Start: 2018.04.02 @ 01:36:15

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w /oil specks	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: TrLCM

Serial #: 8368

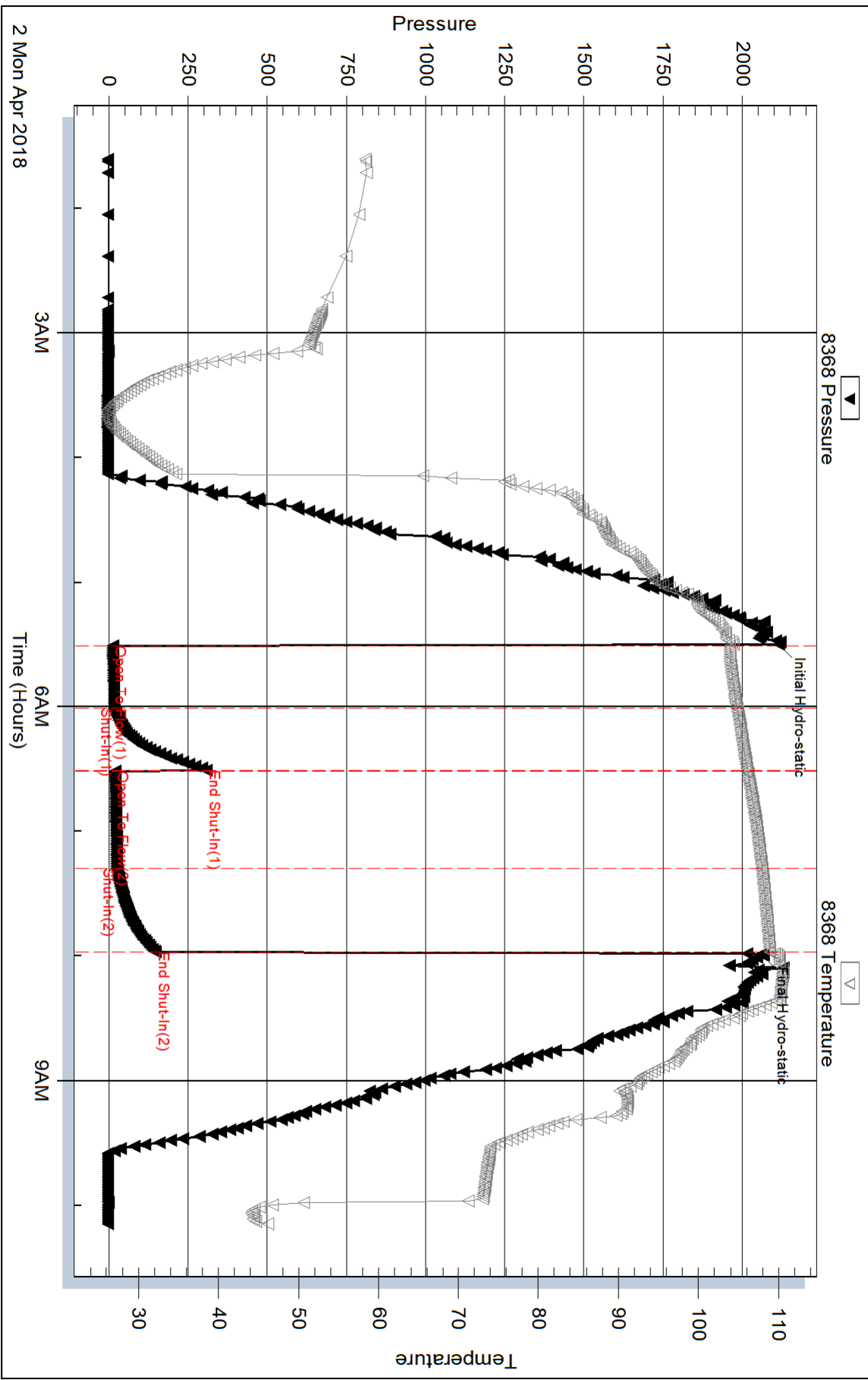
Inside

RF Hembree Oil, LLC.

Schwartzkopf #3

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63770

Printed: 2018.04.04 @ 16:45:33

Serial #: 8934

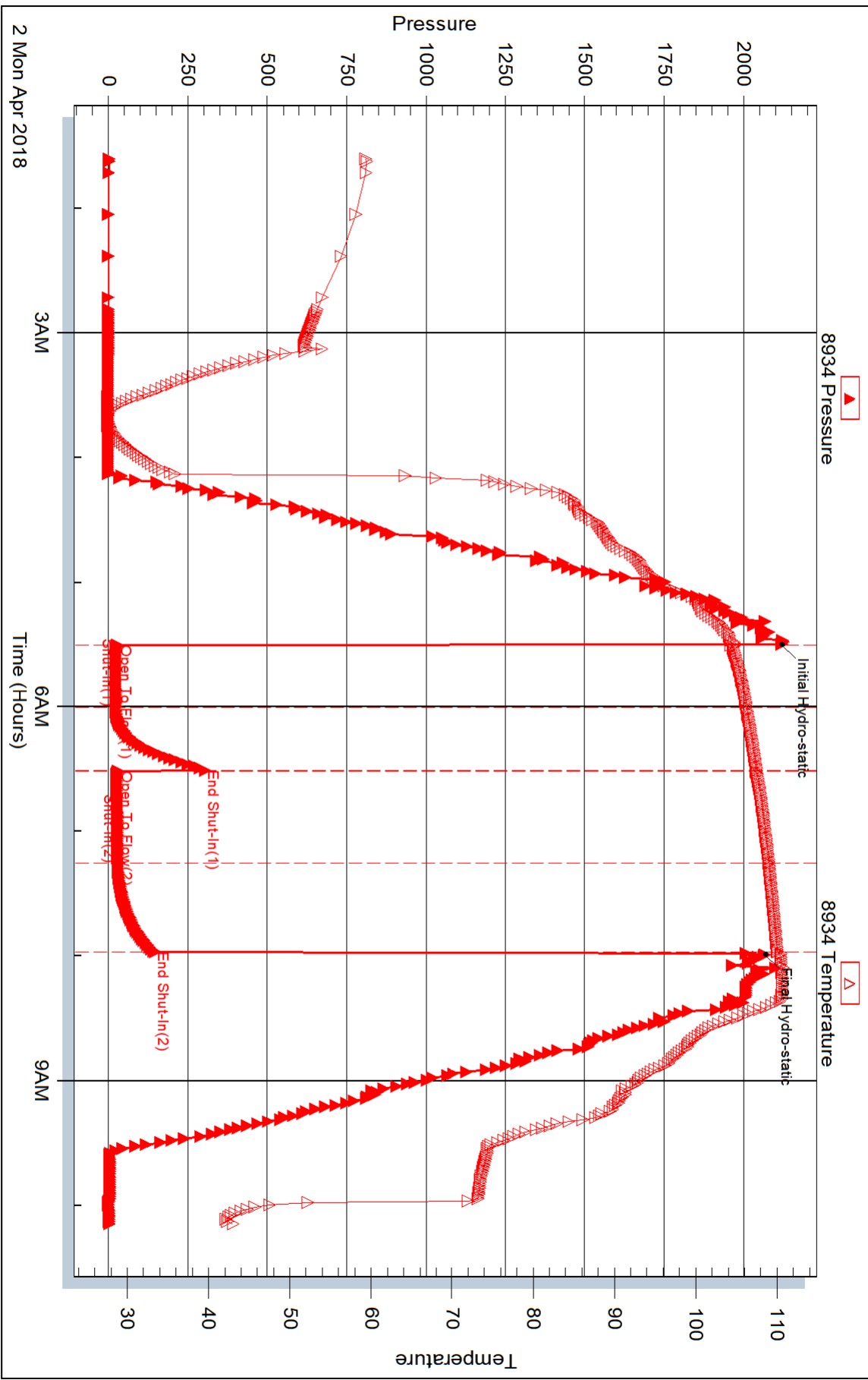
Inside

RF Hembree Oil, LLC.

Schwartzkopf #3

DST Test Number: 1

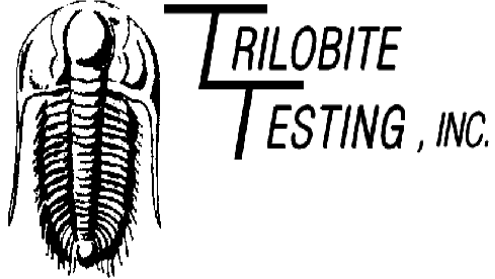
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63770

Printed: 2018.04.04 @ 16:45:33



DRILL STEM TEST REPORT

Prepared For: **RF Hembree Oil, LLC.**

PO Box 542
Ness City KS 67560+0542

ATTN: Wyatt Urban

Schwartzkopf #3

35-18S-24W Ness,KS

Start Date: 2018.04.03 @ 00:59:15

End Date: 2018.04.03 @ 09:08:30

Job Ticket #: 63771 DST #: 2

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

Printed: 2018.04.04 @ 16:45:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

RF Hembree Oil, LLC.
 PO Box 542
 Ness City KS 67560+0542
 ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
 Job Ticket: 63771 **DST#: 2**
 Test Start: 2018.04.03 @ 00:59:15

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:37:30
 Time Test Ended: 09:08:30
 Interval: **4258.00 ft (KB) To 4327.00 ft (KB) (TVD)**
 Total Depth: 4327.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2297.00 ft (KB)
 2290.00 ft (CF)
 KB to GR/CF: 7.00 ft

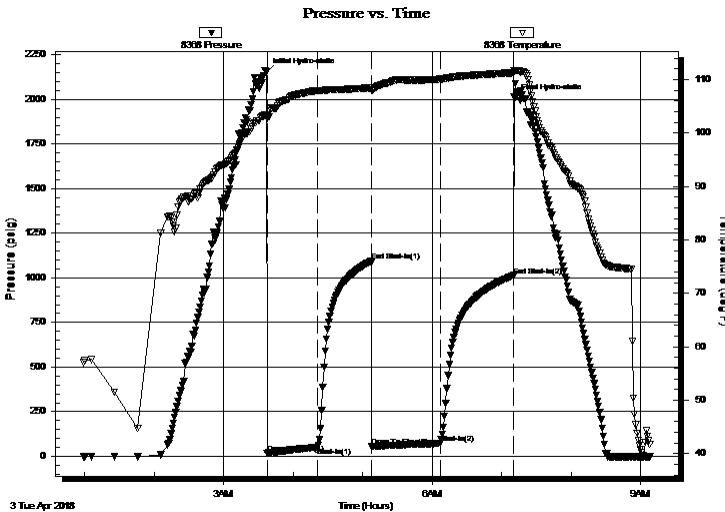
Serial #: 8368

Inside

Press@RunDepth: 72.34 psig @ 4262.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.03 End Date: 2018.04.03 Last Calib.: 2018.04.03
 Start Time: 00:59:15 End Time: 09:08:30 Time On Btm: 2018.04.03 @ 03:37:00
 Time Off Btm: 2018.04.03 @ 07:11:15

TEST COMMENT: 45-IF-Weak Blow ; Built to 5"
 45-ISI-No Return
 60-FF-Weak Blow ; Built to 2 1/2"
 60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2151.38	103.46	Initial Hydro-static
1	16.12	102.70	Open To Flow (1)
45	51.92	107.91	Shut-In(1)
91	1093.17	108.47	End Shut-In(1)
91	56.62	108.07	Open To Flow (2)
150	72.34	110.09	Shut-In(2)
214	1013.10	111.28	End Shut-In(2)
215	2006.20	111.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GSOCM 10%G 3%O 87%M	0.10
80.00	MCO 20%M 80%O	0.39
60.00	GO 10%G 90%O	0.65

* Recovery from multiple tests

Gas Rates

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



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 PO Box 542
 Ness City KS 67560+0542
 ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
 Job Ticket: 63771 **DST#: 2**
 Test Start: 2018.04.03 @ 00:59:15

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:37:30
 Time Test Ended: 09:08:30
 Interval: **4258.00 ft (KB) To 4327.00 ft (KB) (TVD)**
 Total Depth: 4327.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2297.00 ft (KB)
 2290.00 ft (CF)
 KB to GR/CF: 7.00 ft

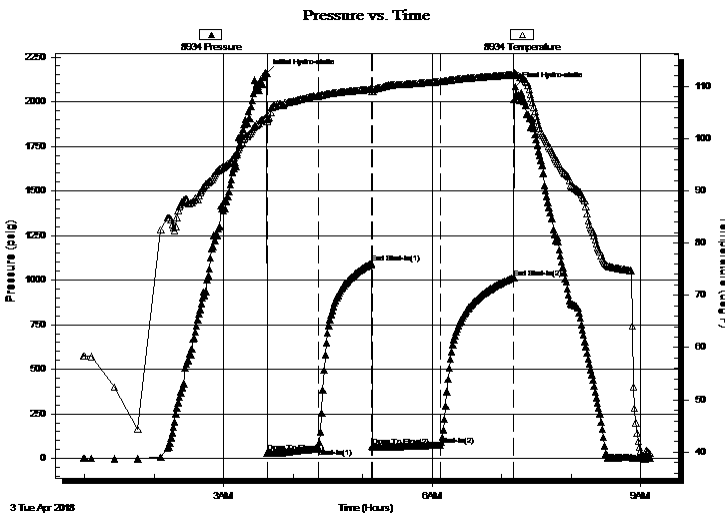
Serial #: 8934

Inside

Press@RunDepth: 1014.15 psig @ 4262.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.03 End Date: 2018.04.03 Last Calib.: 2018.04.03
 Start Time: 00:59:15 End Time: 09:08:30 Time On Btm: 2018.04.03 @ 03:37:15
 Time Off Btm: 2018.04.03 @ 07:11:45

TEST COMMENT: 45-IF-Weak Blow ; Built to 5"
 45-ISI-No Return
 60-FF-Weak Blow ; Built to 2 1/2"
 60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.43	104.09	Initial Hydro-static
1	32.09	103.33	Open To Flow (1)
45	55.15	108.15	Shut-In(1)
91	1094.40	109.45	End Shut-In(1)
91	67.29	109.05	Open To Flow (2)
150	74.98	110.90	Shut-In(2)
214	1014.15	112.21	End Shut-In(2)
215	2085.47	112.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GSOCM 10%G 3%O 87%M	0.10
80.00	MCO 20%M 80%O	0.39
60.00	GO 10%G 90%O	0.65

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RF Hembree Oil, LLC.
PO Box 542
Ness City KS 67560+0542
ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
Job Ticket: 63771 **DST#: 2**
Test Start: 2018.04.03 @ 00:59:15

Tool Information

Drill Pipe:	Length: 4125.00 ft	Diameter: 3.80 inches	Volume: 57.86 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 58.46 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4258.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	89.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

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

Change Over Sub	1.00			4239.00	
Shut In Tool	5.00			4244.00	
Hydraulic tool	5.00			4249.00	
Packer	5.00			4254.00	20.00 Bottom Of Top Packer
Packer	4.00			4258.00	
Stubb	1.00			4259.00	
Perforations	2.00			4261.00	
Change Over Sub	1.00			4262.00	
Recorder	0.00	8368	Inside	4262.00	
Recorder	0.00	8934	Inside	4262.00	
Drill Pipe	31.00			4293.00	
Change Over Sub	1.00			4294.00	
Perforations	30.00			4324.00	
Bullnose	3.00			4327.00	69.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

RF Hembree Oil, LLC.
PO Box 542
Ness City KS 67560+0542
ATTN: Wyatt Urban

35-18S-24W Ness,KS
Schwartzkopf #3
Job Ticket: 63771 **DST#: 2**
Test Start: 2018.04.03 @ 00:59:15

Mud and Cushion Information

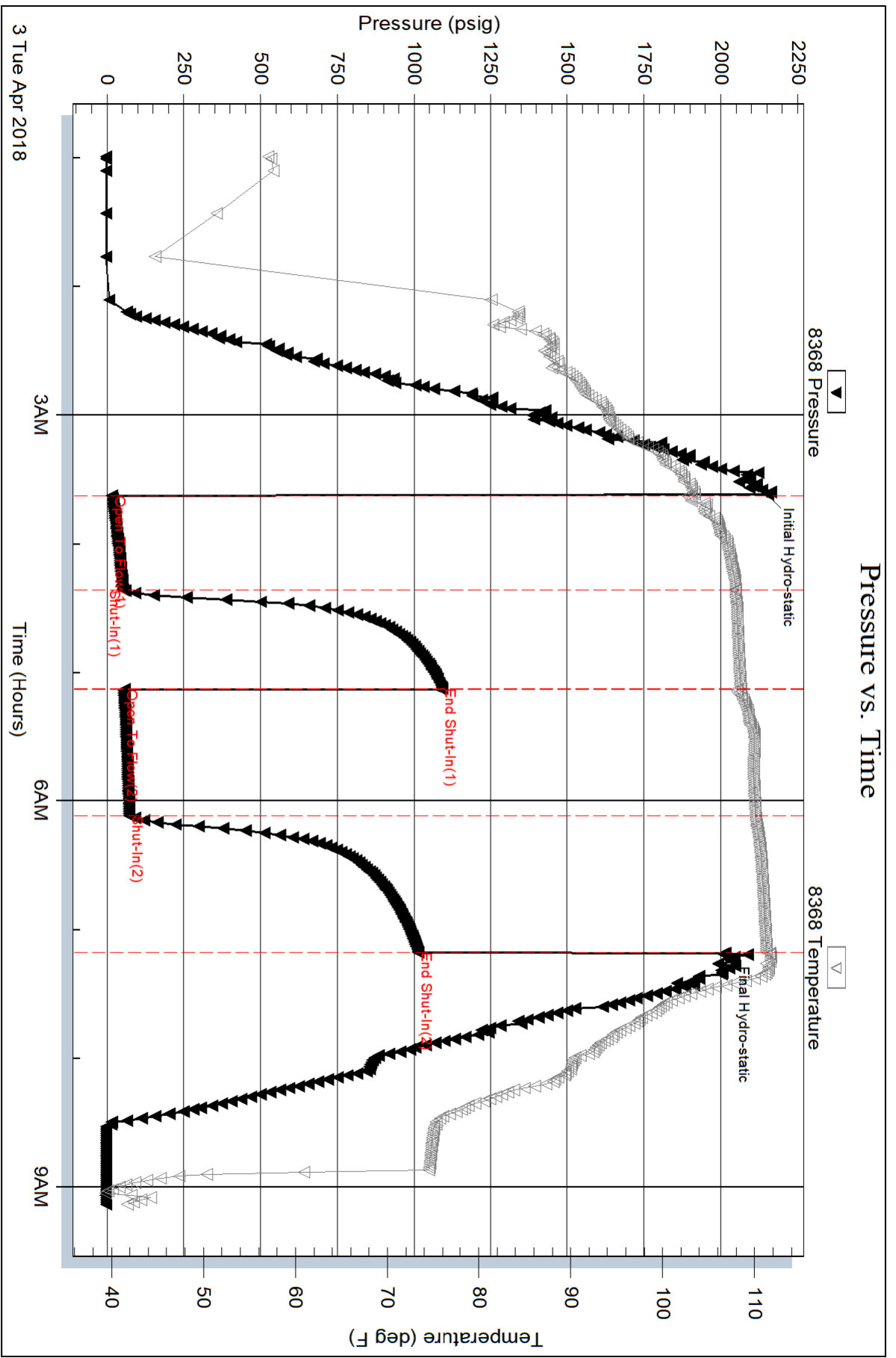
Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6900.00 ppm		
Filter Cake: inches		

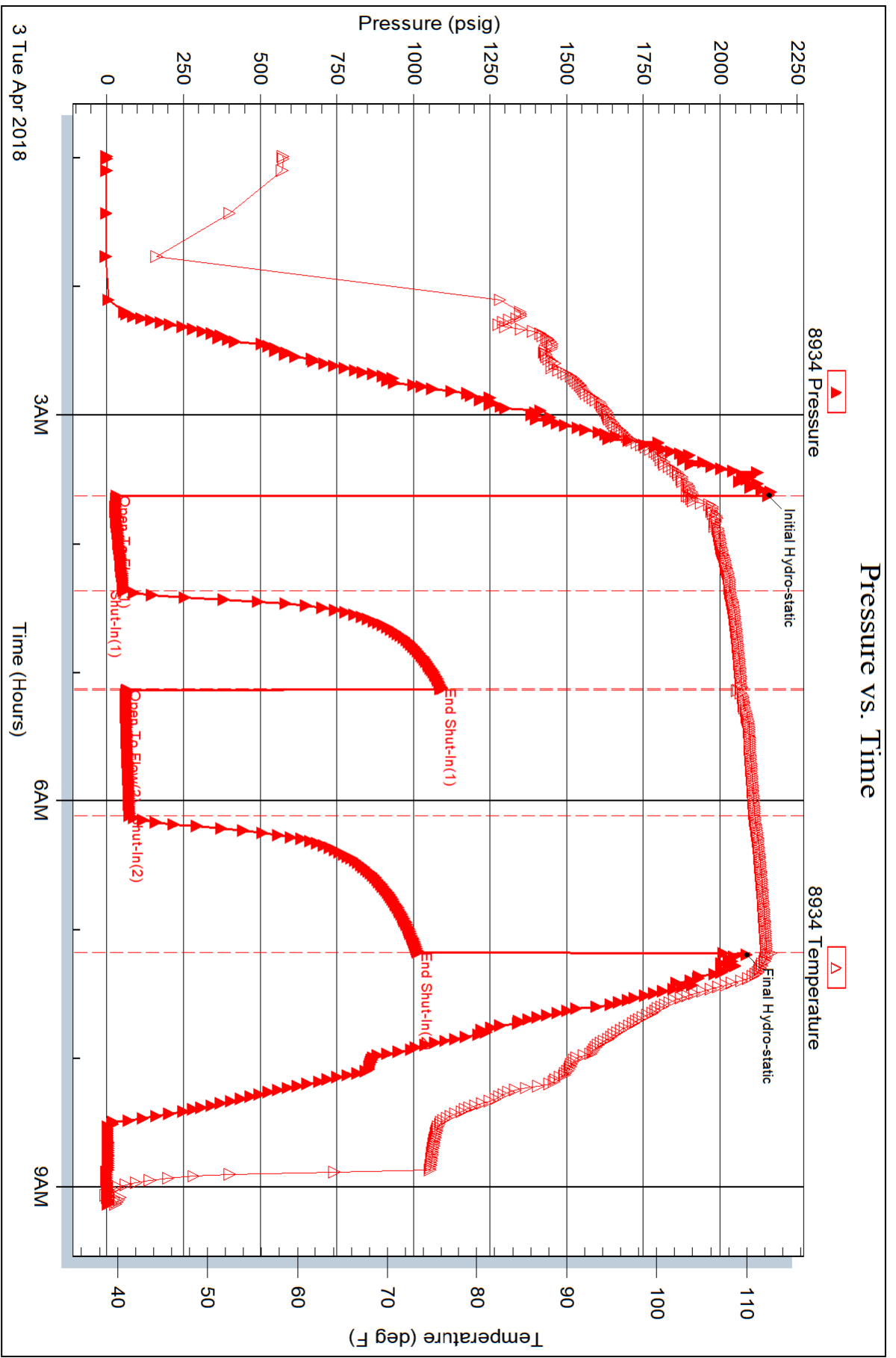
Recovery Information

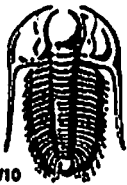
Recovery Table

Length ft	Description	Volume bbl
20.00	GSOCM 10%G 3%O 87%M	0.098
80.00	MCO 20%M 80%O	0.393
60.00	GO 10%G 90%O	0.650

Total Length: 160.00 ft Total Volume: 1.141 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: TrLCM







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63770

Well Name & No. Schwartzkopf #3 Test No. 1 Date 04/01/2018
 Company R7 Hembree Oil, LLC Elevation 2297' KB 2290' GL
 Address PO Box 542 Ness City Ks 67560 +0542
 Co. Rep / Geo. Wyatt Urban Rig Pickrell #10
 Location: Sec. 35 Twp 18N Rge. 24W Co. Ness State Ks

Interval Tested 4192' - 4242' Zone Tested 7d Scott
 Anchor Length 50' Drill Pipe Run 4062' Mud Wt. 9.2
 Top Packer Depth 4187' Drill Collars Run 121' Vls 50
 Bottom Packer Depth 4192' Wt. Pipe Run - WL 7.6
 Total Depth 4242' Chlorides 7,000 ppm System LCM 72

Blow Description 77-Weak Blow; Built to 1/2"
75d- No Return
77- Weak Blow; Built to 1/2"
75d- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/oil specks</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

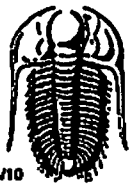
Rec Total 10' BHT 110° Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2119 Test 1150 T-On Location 23:00
 (B) First Initial Flow 28 Jars _____ T-Started 01:36 04/02/2018
 (C) First Final Flow 22 Safety Joint _____ T-Open 05:30
 (D) Initial Shut-In 303 Circ Sub _____ T-Pulled 08:00
 (E) Second Initial Flow 30 Hourly Standby x2 160 T-Out 10:08
 (F) Second Final Flow 29 Mileage 128 RT 128 Comments Stayed in
 (G) Final Shut-In 146 Sampler _____ Ness
 (H) Final Hydrostatic 2067 Straddle _____
 Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Initial Open 30 Extra Recorder _____
 Initial Shut-In 30 Day Standby _____
 Final Flow 45 Accessibility _____
 Final Shut-In 45 Sub Total 1438
 Sub Total 1438 MP/DST Disc't _____

Approved By _____ Our Representative Spencer J. Gaab Thanks!

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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63771

Well Name & No. Schwartzkopf #3 Test No. 2 Date 04/03/2018
 Company R7 Hembree Oil, Inc. Elevation 2297' KB 2290' GL
 Address PO BOX 542 Ness City Ks 67560+0542
 Co. Rep / Geo. Wyatt Urban Rig Pickrell #10
 Location: Sec. 35 Twp 18s Rge. 24w Co. Ness State Ks

Interval Tested 4258'-4327' Zone Tested Mississippi
 Anchor Length 69' Drill Pipe Run 4125' Mud Wt. 9.5
 Top Packer Depth 4253' Drill Collars Run 121 Vls 48
 Bottom Packer Depth 4258' Wt. Pipe Run - WL 8.0
 Total Depth 4327' Chlorides 6900 ppm System LCM 7/2

Blow Description 17-Weak Blow, Built to 5"
68- No Return
77- Weak Blow, Built to 2 1/2"
78- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>MSOCM</u>	<u>10</u>	<u>3</u>	<u>87</u>	
<u>80'</u>	<u>MCO</u>		<u>80</u>	<u>20</u>	
<u>60'</u>	<u>10</u>	<u>10</u>	<u>90</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 160' BHT _____ Gravity 34 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2156 Test 1150 T-On Location 00:43
 (B) First Initial Flow 32 Jars _____ T-Started 00:59
 (C) First Final Flow 55 Safety Joint _____ T-Open 03:35
 (D) Initial Shut-In 1094 Circ Sub _____ T-Pulled 07:05
 (E) Second Initial Flow 67 Hourly Standby _____ T-Out 09:06
 (F) Second Final Flow 74 Mileage 128 R7 128 Comments Loaded after test
 (G) Final Shut-In 1014 Sampler _____
 (H) Final Hydrostatic 2085 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1528
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1528

Approved By _____ Our Representative Spencer J. Neal Thanks!
 TriLOBITE Testing Inc. shall not be liable for damaged or 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.

785-259-0056