



DRILL STEM TEST REPORT

Prepared For: **RF Hembree Oil LLC**

P.O. Box 542
Ness City, KS 67560

ATTN: Wyatt Urban

Schwartzkopf A #3

34-18-24 Ness,KS

Start Date: 2016.11.23 @ 09:56:26

End Date: 2016.11.23 @ 15:54:56

Job Ticket #: 65642 DST #: 1

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

Printed: 2016.11.25 @ 15:01:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

RF Hembree Oil LLC
P.O. Box 542
Ness City, KS 67560
ATTN: Wyatt Urban

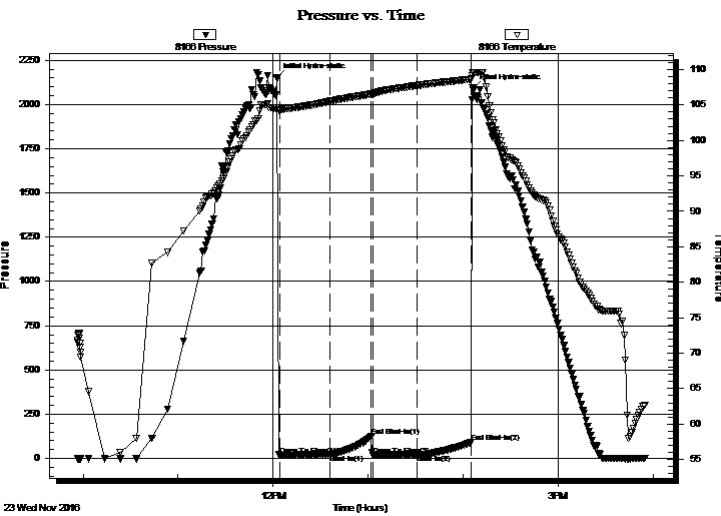
34-18-24 Ness, KS
Schwartzkopf A #3
Job Ticket: 65642 **DST#: 1**
Test Start: 2016.11.23 @ 09:56:26

GENERAL INFORMATION:

Formation: **Ft Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:03:56
Time Test Ended: 15:54:56
Interval: **4196.00 ft (KB) To 4240.00 ft (KB) (TVD)**
Total Depth: 4240.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 2301.00 ft (KB)
2294.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8166 Outside
Press@RunDepth: 21.05 psig @ 4197.00 ft (KB)
Start Date: 2016.11.23 End Date: 2016.11.23
Start Time: 09:56:31 End Time: 15:54:55
Capacity: 8000.00 psig
Last Calib.: 2016.11.23
Time On Btm: 2016.11.23 @ 12:01:56
Time Off Btm: 2016.11.23 @ 14:05:56

TEST COMMENT: IF: 1/4" blow died in 19 min.
IS: No return.
FF: Surface blow built to 3/4"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2150.73	104.60	Initial Hydro-static
2	19.81	104.31	Open To Flow (1)
34	23.01	105.52	Shut-In(1)
60	123.79	106.52	End Shut-In(1)
61	18.23	106.53	Open To Flow (2)
89	21.05	107.74	Shut-In(2)
123	90.61	108.63	End Shut-In(2)
124	2092.52	109.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100% _m	0.21
0.00	45 GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

RF Hembree Oil LLC
 P.O. Box 542
 Ness City, KS 67560
 ATTN: Wyatt Urban

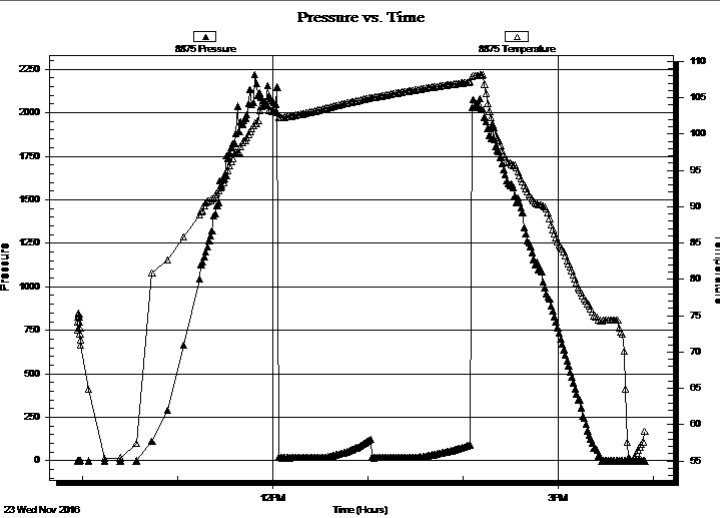
34-18-24 Ness, KS
Schwartzkopf A #3
 Job Ticket: 65642 **DST#: 1**
 Test Start: 2016.11.23 @ 09:56:26

GENERAL INFORMATION:

Formation: Ft Scott			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 12:03:56		Tester: Brandon Turley	
Time Test Ended: 15:54:56		Unit No: 79	
Interval: 4196.00 ft (KB) To 4240.00 ft (KB) (TVD)		Reference Elevations: 2301.00 ft (KB)	
Total Depth: 4240.00 ft (KB) (TVD)		2294.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 7.00 ft	

Serial #: 8875	Inside				
Press@RunDepth: psig @	4197.00 ft (KB)	Capacity:	8000.00 psig		
Start Date: 2016.11.23	End Date: 2016.11.23	Last Calib.:	2016.11.23		
Start Time: 09:56:43	End Time: 15:55:07	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: IF: 1/4" blow died in 19 min.
 IS: No return.
 FF: Surface blow built to 3/4"
 FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	mud 100% m	0.21
0.00	45 GIP	0.00

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RF Hembree Oil LLC
P.O. Box 542
Ness City, KS 67560
ATTN: Wyatt Urban

34-18-24 Ness, KS
Schwartzkopf A #3
Job Ticket: 65642 **DST#: 1**
Test Start: 2016.11.23 @ 09:56:26

Tool Information

Drill Pipe:	Length: 4185.00 ft	Diameter: 3.80 inches	Volume: 58.70 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 58.70 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4196.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 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			4177.00	
Shut In Tool	5.00			4182.00	
Hydraulic tool	5.00			4187.00	
Packer	5.00			4192.00	20.00 Bottom Of Top Packer
Packer	4.00			4196.00	
Stubb	1.00			4197.00	
Recorder	0.00	8875	Inside	4197.00	
Recorder	0.00	8166	Outside	4197.00	
Perforations	5.00			4202.00	
Change Over Sub	1.00			4203.00	
Drill Pipe	31.00			4234.00	
Change Over Sub	1.00			4235.00	
Bullnose	5.00			4240.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

RF Hembree Oil LLC
P.O. Box 542
Ness City, KS 67560
ATTN: Wyatt Urban

34-18-24 Ness, KS
Schwartzkopf A #3
Job Ticket: 65642 **DST#: 1**
Test Start: 2016.11.23 @ 09:56:26

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: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.59 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100%m	0.210
0.00	45 GIP	0.000

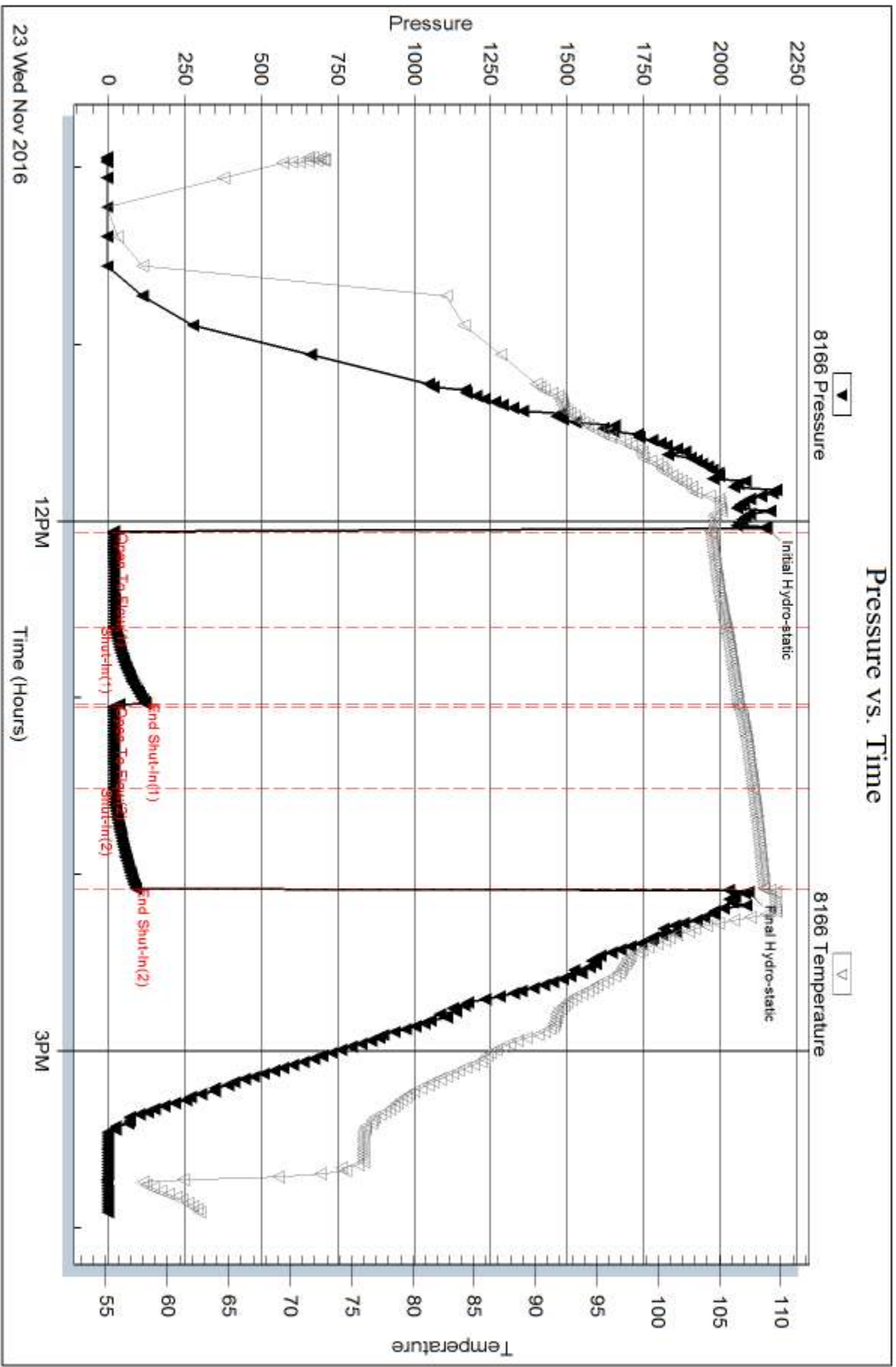
Total Length: 15.00 ft Total Volume: 0.210 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8166

Outside RF Hembree Oil LLC

Schw artzkopf A #3

DST Test Number: 1



23 Wed Nov 2016

Triobite Testing, Inc

Ref. No: 65642

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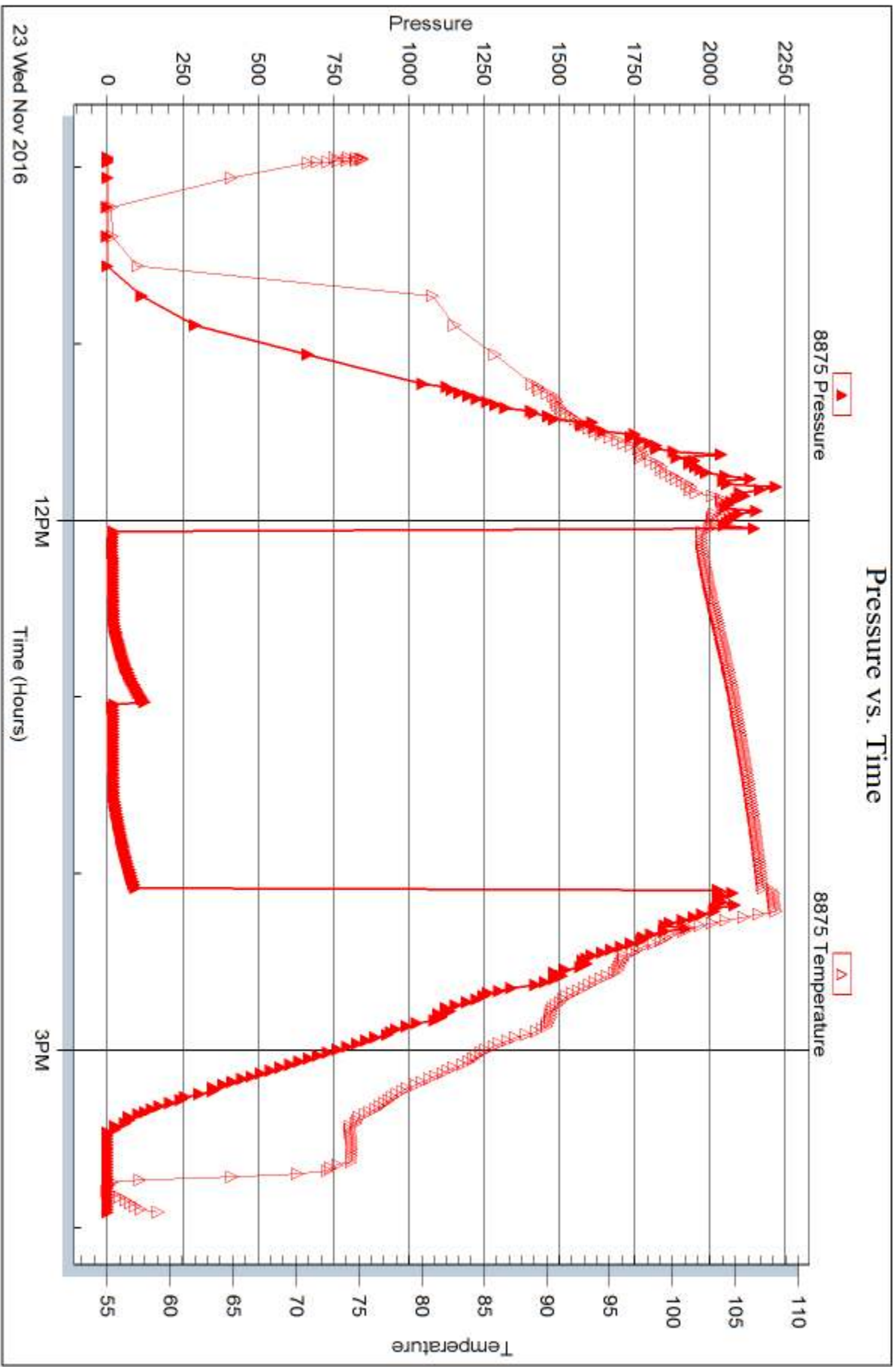
Serial #: 8875

Inside

RF Hembree Oil LLC

Schw artzkopf A #3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65642

Printed: 2016.11.25 @ 15:01:31



DRILL STEM TEST REPORT

Prepared For: **RF Hembree Oil LLC**

P.O. Box 542
Ness City, KS 67560

ATTN: Wyatt Urban

Schwartzkopf A #3

34-18-24 Ness,KS

Start Date: 2016.11.24 @ 06:38:41

End Date: 2016.11.24 @ 13:26:11

Job Ticket #: 65643 DST #: 2

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

Printed: 2016.11.25 @ 14:41:38



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

RF Hembree Oil LLC
P.O. Box 542
Ness City, KS 67560
ATTN: Wyatt Urban

34-18-24 Ness, KS

Schwartzkopf A #3

Job Ticket: 65643 **DST#: 2**
Test Start: 2016.11.24 @ 06:38:41

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:35:41
Time Test Ended: 13:26:11
Interval: **4252.00 ft (KB) To 4328.00 ft (KB) (TVD)**
Total Depth: 4328.00 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: 2301.00 ft (KB)
2294.00 ft (CF)
KB to GR/CF: 7.00 ft

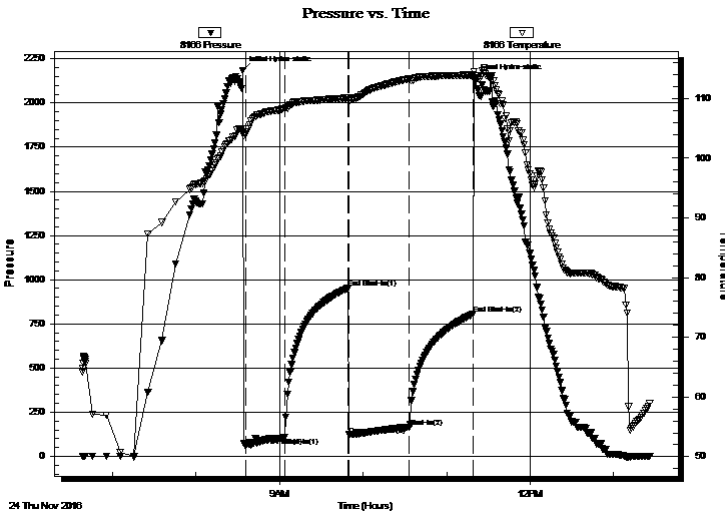
Serial #: 8166

Outside

Press@RunDepth: 166.10 psig @ 4253.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.11.24 End Date: 2016.11.24 Last Calib.: 2016.11.24
Start Time: 06:38:46 End Time: 13:26:10 Time On Btm: 2016.11.24 @ 08:33:41
Time Off Btm: 2016.11.24 @ 11:19:41

TEST COMMENT: IF: BOB in 11 min.
IS: Surface blow died in 20 min.
FF: BOB in 15 min.
FS: Surface blow died in 10 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.66	104.48	Initial Hydro-static
2	57.61	104.05	Open To Flow (1)
30	105.81	108.33	Shut-In(1)
76	950.29	110.11	End Shut-In(1)
76	121.64	109.78	Open To Flow (2)
120	166.10	113.26	Shut-In(2)
165	805.34	113.96	End Shut-In(2)
166	2137.87	114.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	gocm 30%g 10%o 60%m	0.87
217.00	gocm 10%g 20%o 70%m	3.04
108.00	go 20%g 80%o	1.51
0.00	169 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

RF Hembree Oil LLC
P.O. Box 542
Ness City, KS 67560
ATTN: Wyatt Urban

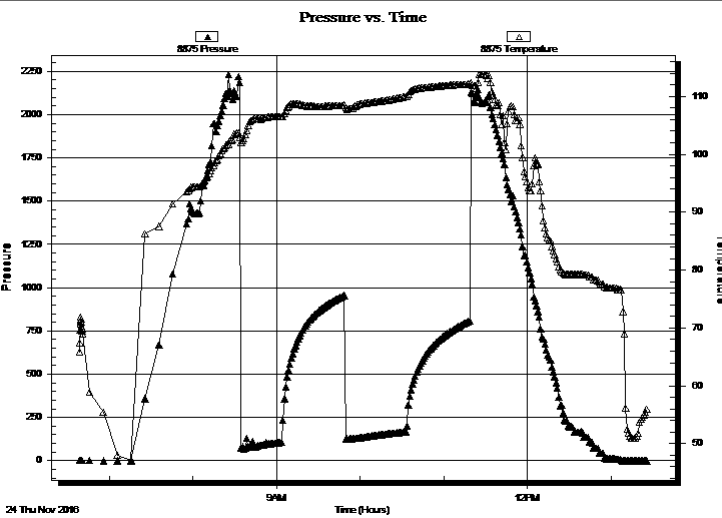
34-18-24 Ness, KS
Schwartzkopf A #3
Job Ticket: 65643 **DST#: 2**
Test Start: 2016.11.24 @ 06:38:41

GENERAL INFORMATION:

Formation: Miss			Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)			Tester: Brandon Turley
Time Tool Opened: 08:35:41			Unit No: 79
Time Test Ended: 13:26:11			
Interval: 4252.00 ft (KB) To 4328.00 ft (KB) (TVD)		Reference Elevations: 2301.00 ft (KB)	
Total Depth: 4328.00 ft (KB) (TVD)		2294.00 ft (CF)	
Hole Diameter: 7.88 inches Hole Condition: Good		KB to GR/CF: 7.00 ft	

Serial #: 8875 Inside				Capacity: 8000.00 psig
Press@RunDepth: psig @ 4253.00 ft (KB)				Last Calib.: 2016.11.24
Start Date: 2016.11.24 End Date: 2016.11.24				Time On Btm:
Start Time: 06:38:32 End Time: 13:25:56				Time Off Btm:

TEST COMMENT: IF: BOB in 11 min.
IS: Surface blow died in 20 min.
FF: BOB in 15 min.
FS: Surface blow died in 10 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	gocm 30%g 10%o 60%m	0.87
217.00	gocm 10%g 20%o 70%m	3.04
108.00	go 20%g 80%o	1.51
0.00	169 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

RF Hembree Oil LLC
P.O. Box 542
Ness City, KS 67560
ATTN: Wyatt Urban

34-18-24 Ness, KS
Schwartzkopf A #3
Job Ticket: 65643 **DST#: 2**
Test Start: 2016.11.24 @ 06:38:41

Tool Information

Drill Pipe:	Length: 4248.00 ft	Diameter: 3.80 inches	Volume: 59.59 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 59.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4252.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	96.00 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			4233.00	
Shut In Tool	5.00			4238.00	
Hydraulic tool	5.00			4243.00	
Packer	5.00			4248.00	20.00 Bottom Of Top Packer
Packer	4.00			4252.00	
Stubb	1.00			4253.00	
Recorder	0.00	8875	Inside	4253.00	
Recorder	0.00	8166	Outside	4253.00	
Perforations	5.00			4258.00	
Change Over Sub	1.00			4259.00	
Drill Pipe	63.00			4322.00	
Change Over Sub	1.00			4323.00	
Bullnose	5.00			4328.00	76.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

RF Hembree Oil LLC
P.O. Box 542
Ness City, KS 67560
ATTN: Wyatt Urban

34-18-24 Ness,KS
Schwartzkopf A #3
Job Ticket: 65643 **DST#: 2**
Test Start: 2016.11.24 @ 06:38:41

Mud and Cushion Information

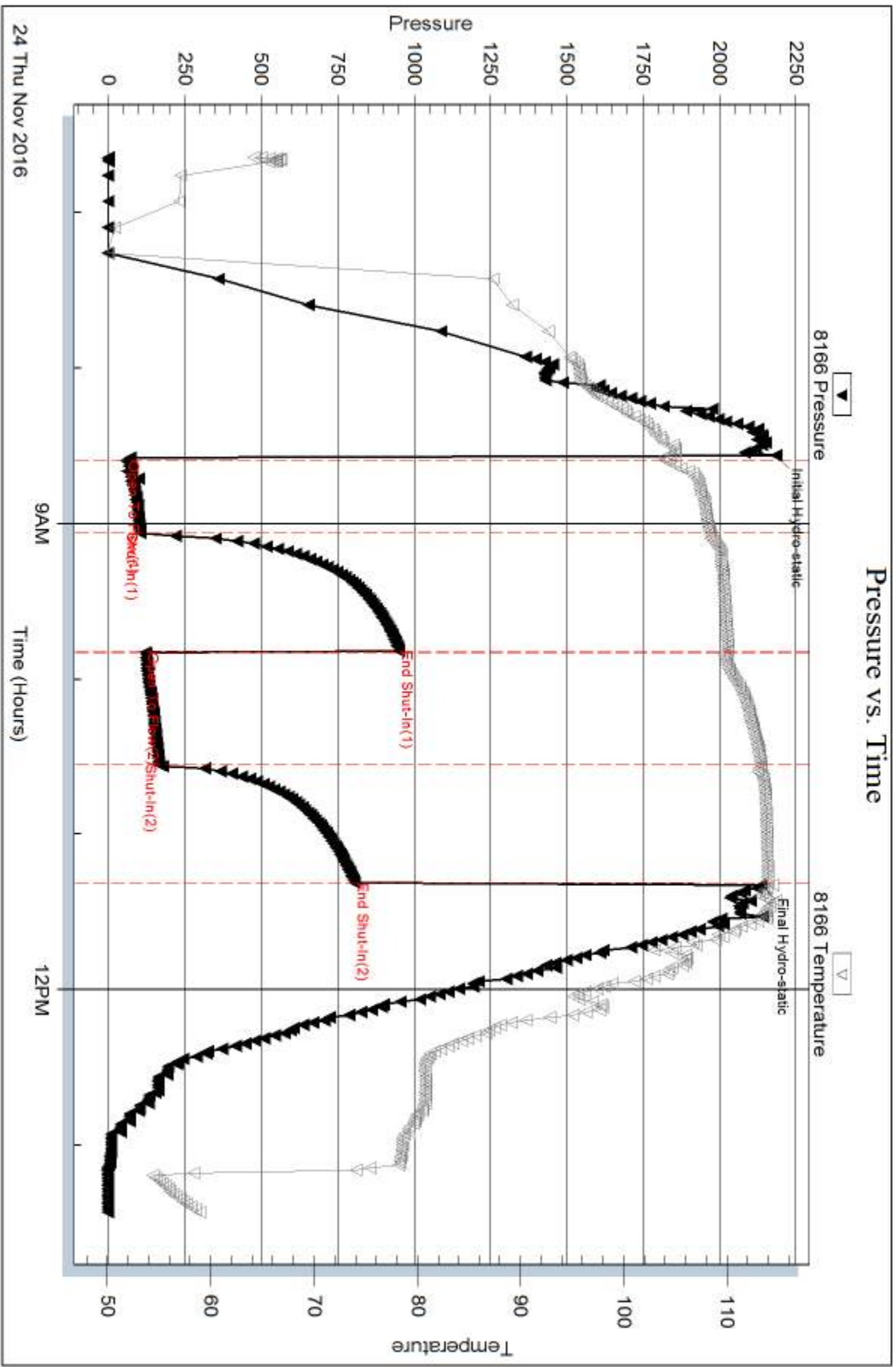
Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.58 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	gocm 30%g 10%o 60%m	0.870
217.00	gocm 10%g 20%o 70%m	3.044
108.00	go 20%g 80%o	1.515
0.00	169 GIP	0.000

Total Length: 387.00 ft Total Volume: 5.429 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 38@60=38



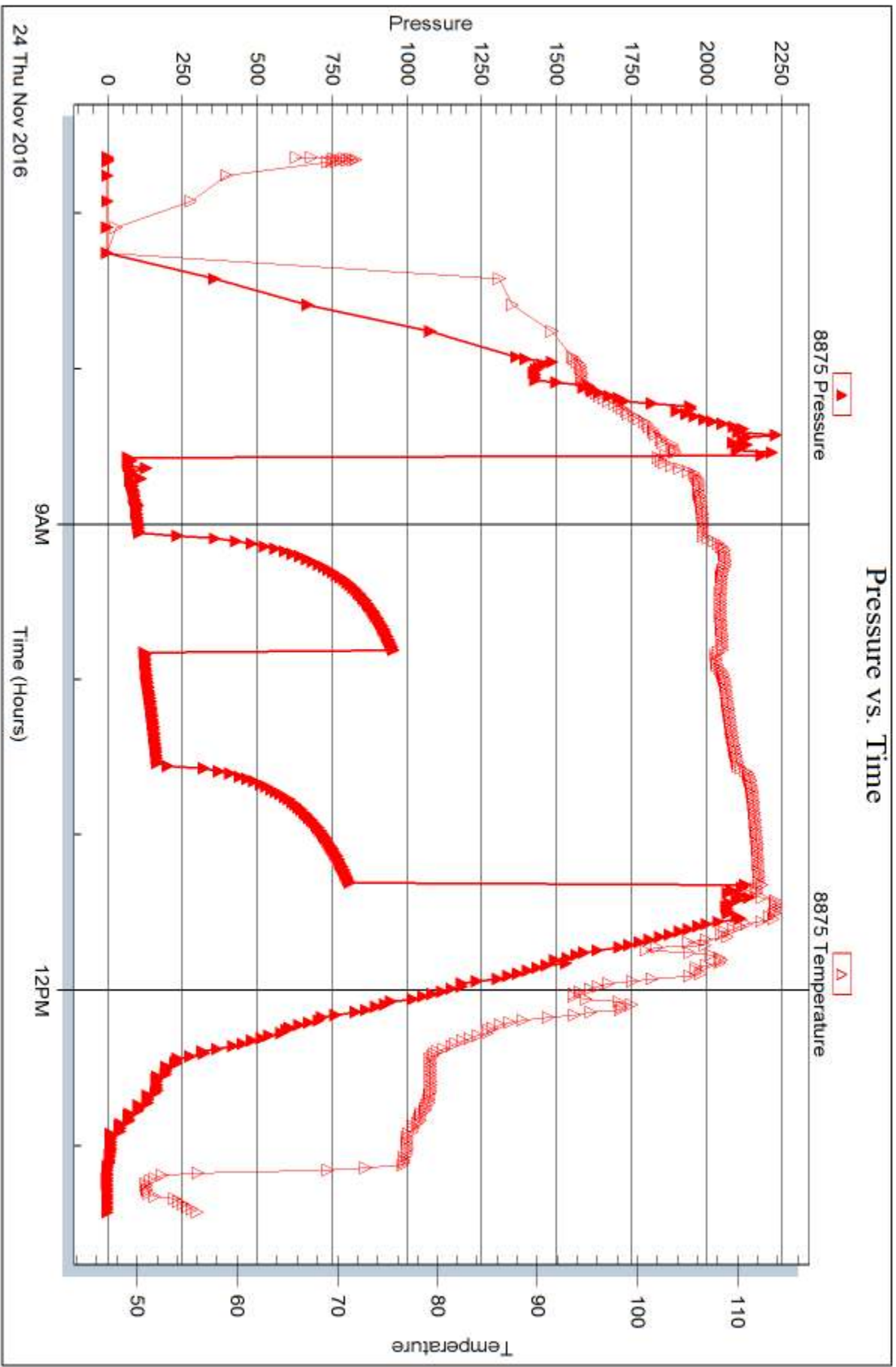
Serial #: 8875

Inside

RF Hembree Oil LLC

Schw artzkopf A #3

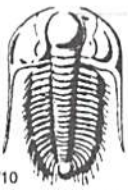
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65643

Printed: 2016.11.25 @ 14:41:41



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65642**

Well Name & No. Schwartzkopf A #3 Test No. 1 Date 11-23-16
 Company RF Hembree oil LLC Elevation 2301 KB 2294 GL
 Address P.O. Box 542 Ness city, KS 67560
 Co. Rep / Geo. Wyatt Urban Rig Pickrell #10
 Location: Sec. 34 Twp. 18 Rge. 24 Co. Ness State KS

Interval Tested 4196 4240 Zone Tested Ft Scott
 Anchor Length 44 Drill Pipe Run 4185 Mud Wt. 9.4
 Top Packer Depth 4191 Drill Collars Run — Vis 50
 Bottom Packer Depth 418 Wt. Pipe Run — WL 9.6
 Total Depth 4240 Chlorides 4000 ppm System LCM 1.5

Blow Description IF: 1/4 blow died in 19 min.
IS: No return.
FF: surface blow built to 3/4.
FS: No return.

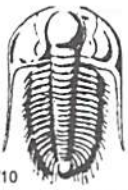
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>mud</u>			<u>100</u>	
	<u>45 GIP</u>				

Rec Total 15 BHT 108 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2150 Test 1150 T-On Location 9:30
 (B) First Initial Flow 19 Jars — T-Started 9:56
 (C) First Final Flow 23 Safety Joint — T-Open 12:02
 (D) Initial Shut-In 123 Circ Sub NIC T-Pulled 14:02
 (E) Second Initial Flow 18 Hourly Standby — T-Out 16:00
 (F) Second Final Flow 21 Mileage 106 - 79.50 Comments —
 (G) Final Shut-In 90 Sampler —
 (H) Final Hydrostatic 2092 Straddle —
 Ruined Shale Packer —
 Shale Packer —
 Ruined Packer —
 Extra Packer —
 Extra Copies —
 Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Extra Recorder — Sub Total 0
 Day Standby — Total 1229.50
 Accessibility — MP/DST Disc't —
 Sub Total 1229.50

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. **65643**

Well Name & No. Schwartzkopf A #3 Test No. 2 Date 11-24-16
 Company RF Hembre oil LLC Elevation 2301 KB 2294 GL
 Address _____
 Co. Rep / Geo. Wyatt Urban Rig Pickrell #10
 Location: Sec. 34 Twp. 18 Rge. 24 Co. Ness State KS

Interval Tested 4252 4328 Zone Tested MISS
 Anchor Length _____ Drill Pipe Run 4248 Mud Wt. 9.4
 Top Packer Depth _____ Drill Collars Run — Vis 50
 Bottom Packer Depth 4352 ~~4328~~ Wt. Pipe Run — WL 9.6
 Total Depth 4328 Chlorides 4000 ppm System LCM 1.5
 Blow Description IF: BoB in 11 min.
IS: surface blow died in 20 min.
FF: BoB in 15 min.
FS: surface blow died in 10 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>108</u>	<u>90</u>	<u>20</u>	<u>80</u>		
<u>217</u>	<u>90cm</u>	<u>10</u>	<u>20</u>		<u>70</u>
<u>62</u>	<u>90cm</u>	<u>30</u>	<u>10</u>		<u>60</u>
Rec _____	Feet of <u>169 GIP</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 387 BHT 114 Gravity 38 API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic _____ Test _____ T-On Location 6:00
 (B) First Initial Flow _____ Jars _____ T-Started 8:38
 (C) First Final Flow _____ Safety Joint _____ T-Open 8:33
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 11:18
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 13:25
 (F) Second Final Flow _____ Mileage 106 79.50
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1229.50
 T-On Location 6:00
 T-Started 8:38
 T-Open 8:33
 T-Pulled 11:18
 T-Out 13:25
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1229.50
 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.