



DRILL STEM TEST REPORT

Prepared For: **Jones Oil**

112 N Gray
St. John, KS 67576

ATTN: Jeff Burk

Brehm-Burke #3

2-24S-14W Stafford,KS

Start Date: 2013.08.24 @ 01:21:15

End Date: 2013.08.24 @ 08:52:15

Job Ticket #: 52390 DST #: 1

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

Printed: 2013.08.27 @ 11:57:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford,KS

Brehm-Burke #3

Job Ticket: 52390 **DST#: 1**

Test Start: 2013.08.24 @ 01:21:15

GENERAL INFORMATION:

Formation: **Lansing "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:45:45
 Time Test Ended: 08:52:15
 Interval: **3677.00 ft (KB) To 3692.00 ft (KB) (TVD)**
 Total Depth: 3692.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1952.00 ft (KB)
 1947.00 ft (CF)
 KB to GR/CF: 5.00 ft

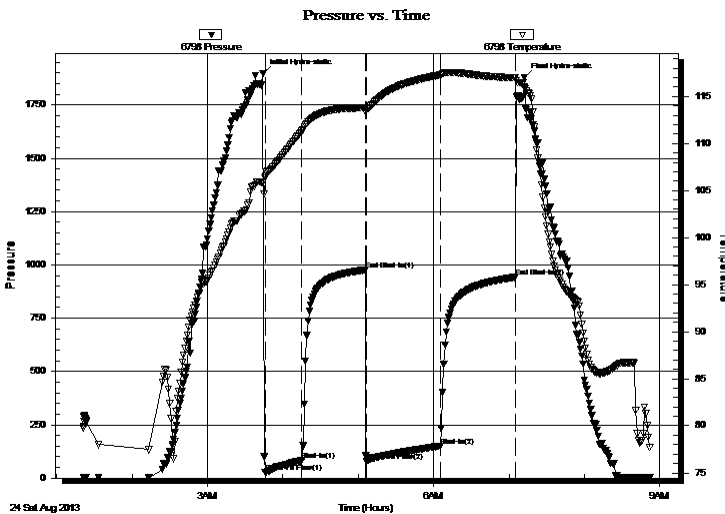
Serial #: 6798

Inside

Press @ Run Depth: 150.48 psig @ 3678.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.24 End Date: 2013.08.24 Last Calib.: 2013.08.24
 Start Time: 01:21:16 End Time: 08:52:15 Time On Btm: 2013.08.24 @ 03:44:00
 Time Off Btm: 2013.08.24 @ 07:12:30

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB in 3 minutes
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.47	105.86	Initial Hydro-static
2	26.03	106.33	Open To Flow (1)
31	83.20	111.29	Shut-In(1)
82	976.38	113.80	End Shut-In(1)
83	80.38	113.48	Open To Flow (2)
141	150.48	117.27	Shut-In(2)
202	942.35	116.97	End Shut-In(2)
209	1878.61	115.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 2217	0.00
202.00	Water	1.74
62.00	OMCW 5%O 10%M 85%W	0.87
80.00	GOMCW 12%G 18%O 30%M 40%W	1.12

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford,KS
Brehm-Burke #3
Job Ticket: 52390 **DST#: 1**
Test Start: 2013.08.24 @ 01:21:15

Tool Information

Drill Pipe:	Length: 3557.00 ft	Diameter: 3.80 inches	Volume: 49.90 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 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: 60000.00 lb
			<u>Total Volume: 50.49 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3677.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	41.00 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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Shut In Tool	5.00			3656.00	
Hydraulic tool	5.00			3661.00	
Jars	5.00			3666.00	
Safety Joint	2.00			3668.00	
Packer	5.00			3673.00	26.00 Bottom Of Top Packer
Packer	4.00			3677.00	
Stubb	1.00			3678.00	
Recorder	0.00	6798	Inside	3678.00	
Recorder	0.00	8367	Outside	3678.00	
Perforations	11.00			3689.00	
Bullnose	3.00			3692.00	15.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford,KS
Brehm-Burke #3
Job Ticket: 52390 **DST#: 1**
Test Start: 2013.08.24 @ 01:21:15

Mud and Cushion Information

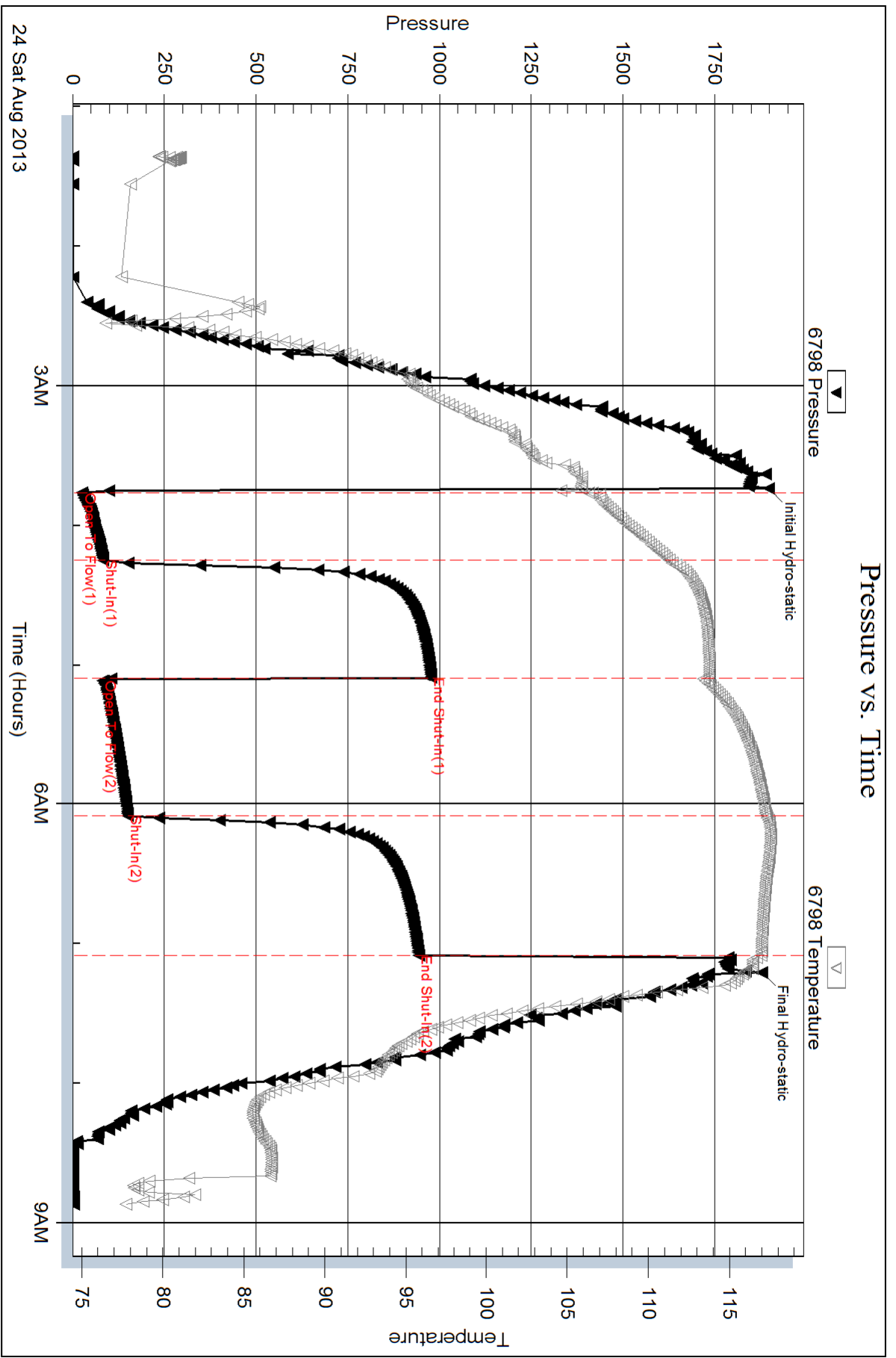
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	87000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.02 inches			

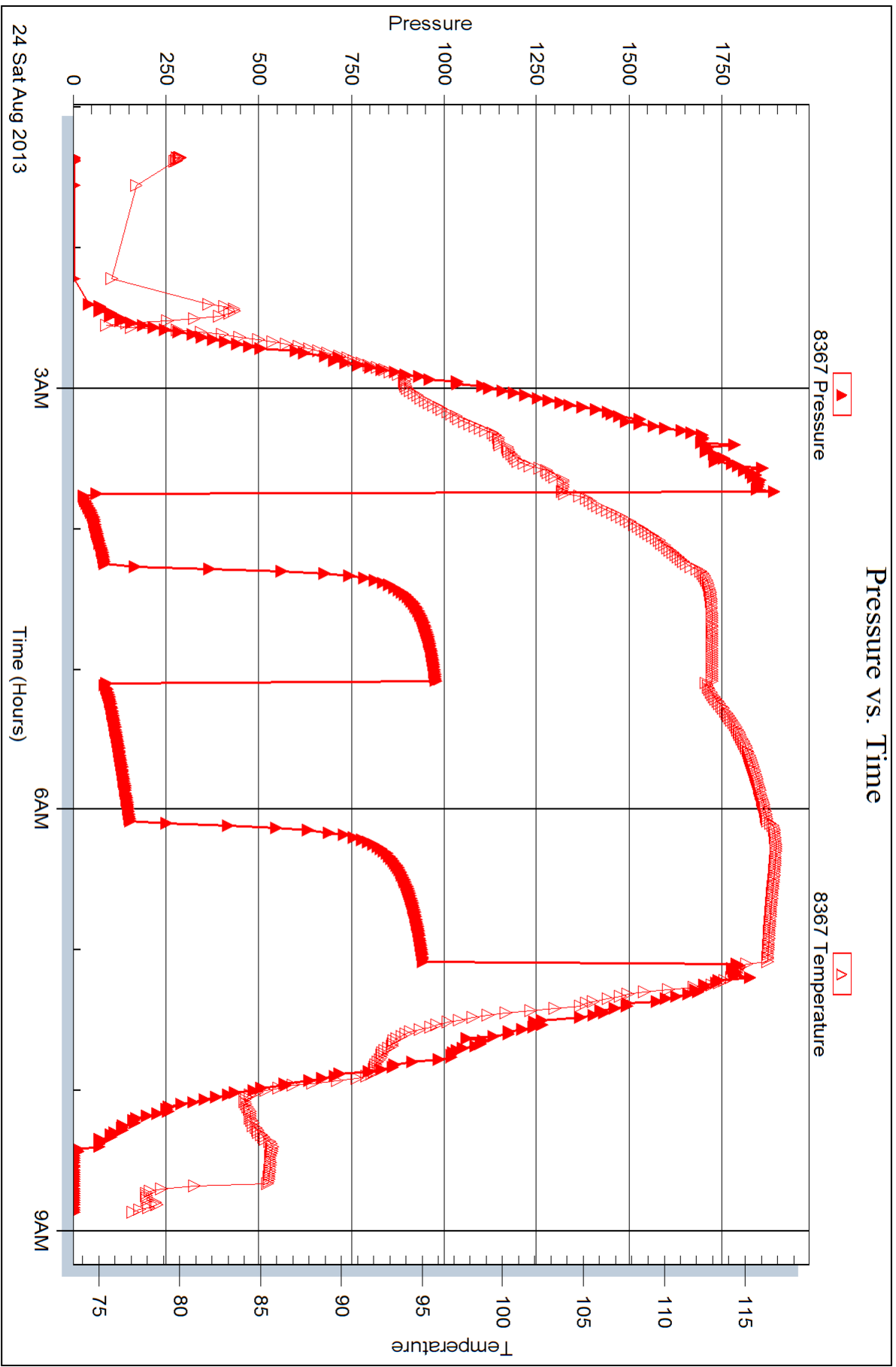
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 2217	0.000
202.00	Water	1.740
62.00	OMCW 5%O 10%M 85%W	0.870
80.00	GOMCW 12%G 18%O 30%M 40%W	1.122

Total Length: 344.00 ft Total Volume: 3.732 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW w as .095 @ 75 degrees







DRILL STEM TEST REPORT

Prepared For: **Jones Oil**

112 N Gray
St. John, KS 67576

ATTN: Jeff Burk

Brehm-Burke #3

2-24S-14W Stafford,KS

Start Date: 2013.08.24 @ 19:08:19

End Date: 2013.08.25 @ 01:51:54

Job Ticket #: 52391 DST #: 2

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

Printed: 2013.08.27 @ 11:56:40

Jones Oil
2-24S-14W Stafford,KS
Brehm-Burke #3
DST # 2
Lansing "H & I"
2013.08.24



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford, KS

Brehm-Burke #3

Job Ticket: 52391 **DST#: 2**

Test Start: 2013.08.24 @ 19:08:19

GENERAL INFORMATION:

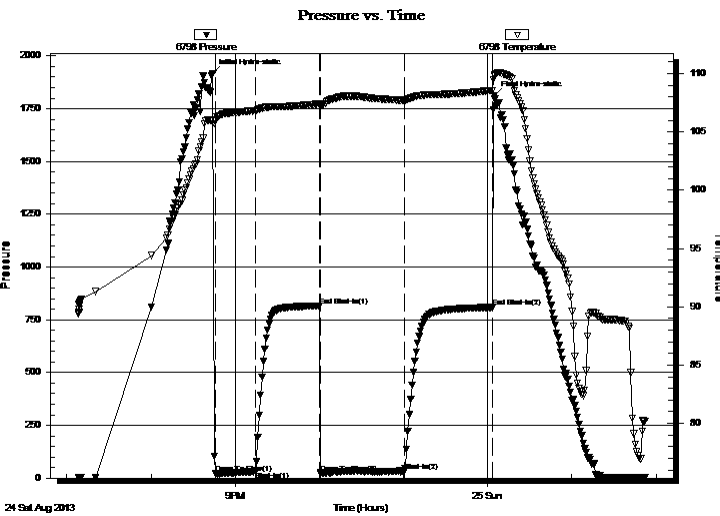
Formation: **Lansing "H & I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:46:04
 Time Test Ended: 01:51:54
 Interval: **3729.00 ft (KB) To 3760.00 ft (KB) (TVD)**
 Total Depth: 3760.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1952.00 ft (KB)
 1947.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press @ RunDepth: 33.87 psig @ 3730.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.24 End Date: 2013.08.25 Last Calib.: 2013.08.25
 Start Time: 19:08:20 End Time: 01:51:54 Time On Btm: 2013.08.24 @ 20:44:04
 Time Off Btm: 2013.08.25 @ 00:04:49

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
 IS: No Blow Back
 FF: Strong Blow , BOB Immediate, GTS in 22 minutes, TSTM, Caught Sample
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1917.85	105.95	Initial Hydro-static
2	20.78	106.05	Open To Flow (1)
31	31.22	106.81	Shut-In(1)
76	816.39	107.42	End Shut-In(1)
77	21.02	107.17	Open To Flow (2)
137	33.87	107.69	Shut-In(2)
200	808.91	108.57	End Shut-In(2)
201	1813.22	109.85	Final Hydro-static

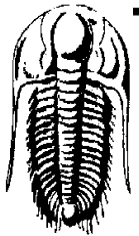
Recovery

Length (ft)	Description	Volume (bbl)
0.00	3629 GIP	0.00
80.00	GSY SOWCM 5%G 2%O 12%W 81%M	0.39

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford, KS
Brehm-Burke #3
Job Ticket: 52391 **DST#: 2**
Test Start: 2013.08.24 @ 19:08:19

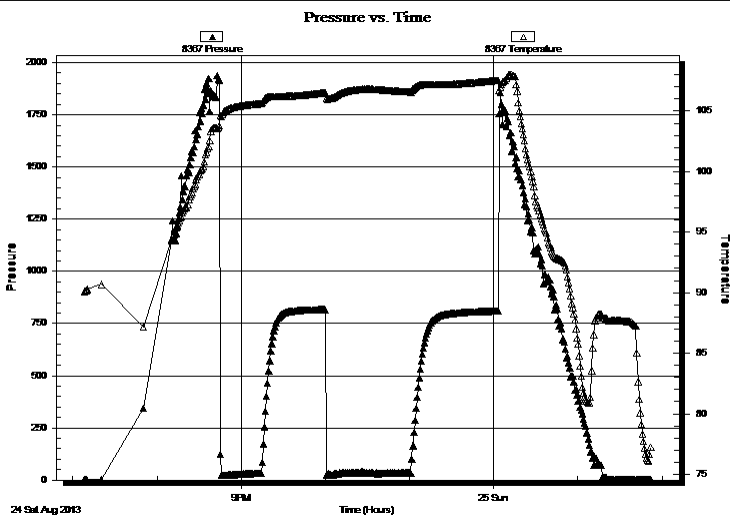
GENERAL INFORMATION:

Formation:	Lansing "H & I"		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	20:46:04		Tester: Leal Cason
Time Test Ended:	01:51:54		Unit No: 45
Interval:	3729.00 ft (KB) To 3760.00 ft (KB) (TVD)		Reference Elevations: 1952.00 ft (KB)
Total Depth:	3760.00 ft (KB) (TVD)		1947.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft

Serial #: 8367 Outside

Press @ Run Depth:	psig @	3730.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2013.08.24	End Date:	2013.08.25	Last Calib.: 2013.08.25
Start Time:	19:08:20	End Time:	01:52:19	Time On Btm:
				Time Off Btm:

TEST COMMENT: IF: Strong Blow, BOB in 90 seconds
IS: No Blow Back
FF: Strong Blow, BOB Immediate, GTS in 22 minutes, TSTM, Caught Sample
FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3629 GIP	0.00
80.00	GSY SOWCM 5%G 2%O 12%W 81%M	0.39

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford,KS
Brehm-Burke #3
Job Ticket: 52391 **DST#: 2**
Test Start: 2013.08.24 @ 19:08:19

Tool Information

Drill Pipe:	Length: 3589.00 ft	Diameter: 3.80 inches	Volume: 50.34 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 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: 80000.00 lb
			<u>Total Volume: 50.93 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3729.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	57.00 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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Shut In Tool	5.00			3708.00	
Hydraulic tool	5.00			3713.00	
Jars	5.00			3718.00	
Safety Joint	2.00			3720.00	
Packer	5.00			3725.00	26.00 Bottom Of Top Packer
Packer	4.00			3729.00	
Stubb	1.00			3730.00	
Recorder	0.00	6798	Inside	3730.00	
Recorder	0.00	8367	Outside	3730.00	
Perforations	27.00			3757.00	
Bullnose	3.00			3760.00	31.00 Bottom Packers & Anchor

Total Tool Length: 57.00



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TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford,KS
Brehm-Burke #3
Job Ticket: 52391 **DST#: 2**
Test Start: 2013.08.24 @ 19:08:19

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:	55000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3629 GIP	0.000
80.00	GSY SOWCM 5%G 2%O 12%W 81%M	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW was .12 @ 81 degrees

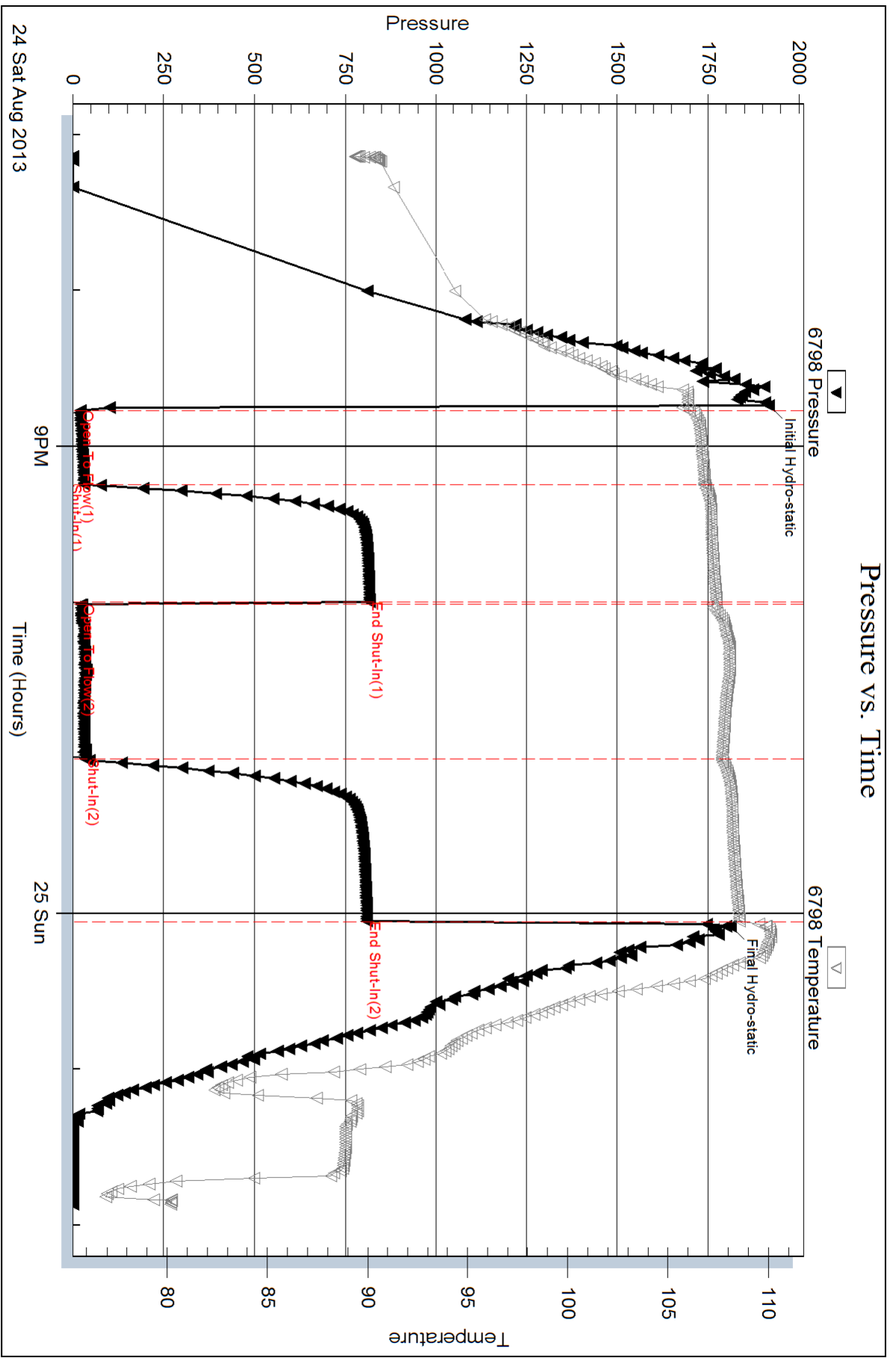
Serial #: 6798

Inside

Jones Oil

Brehm-Burke #3

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52391

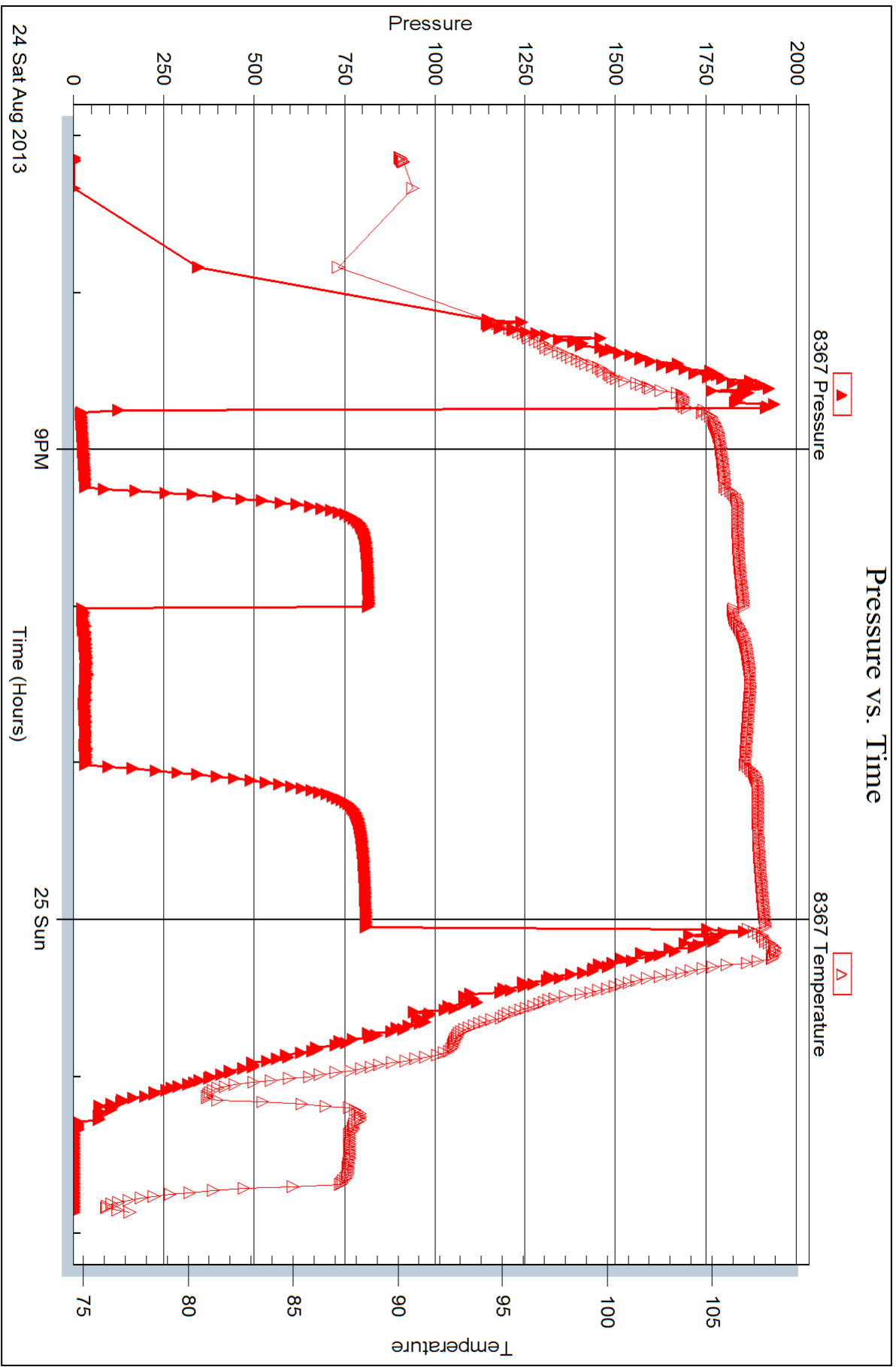
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Serial #: 8367

Outside Jones Oil

Brehm-Burke #3

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Jones Oil**

112 N Gray
St. John, KS 67576

ATTN: Jeff Burk

Brehm-Burke #3

2-24S-14W Stafford,KS

Start Date: 2013.08.25 @ 11:31:03

End Date: 2013.08.25 @ 18:18:33

Job Ticket #: 52392 DST #: 3

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

Printed: 2013.08.27 @ 11:56:08

Jones Oil
2-24S-14W Stafford,KS
Brehm-Burke #3
DST # 3
LKC "J & K"
2013.08.25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford,KS

Brehm-Burke #3

Job Ticket: 52392 **DST#: 3**

Test Start: 2013.08.25 @ 11:31:03

GENERAL INFORMATION:

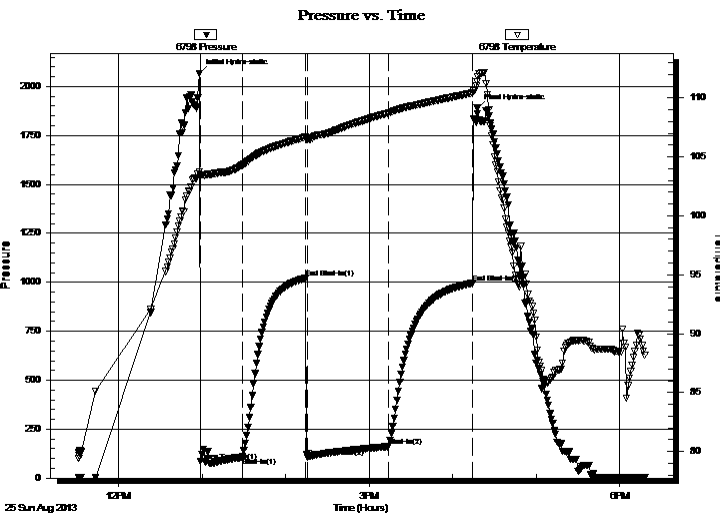
Formation: **LKC "J & K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:58:48
 Time Test Ended: 18:18:33
 Interval: **3758.00 ft (KB) To 3820.00 ft (KB) (TVD)**
 Total Depth: 3820.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1952.00 ft (KB)
 1947.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 161.40 psig @ 3759.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.25 End Date: 2013.08.25 Last Calib.: 2013.08.25
 Start Time: 11:31:04 End Time: 18:18:33 Time On Btm: 2013.08.25 @ 12:57:48
 Time Off Btm: 2013.08.25 @ 16:17:18

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
 IS: No Blow Back
 FF: Strong Blow , BOB in 2 minutes
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2067.21	103.71	Initial Hydro-static
1	84.54	103.34	Open To Flow (1)
31	106.25	104.28	Shut-In(1)
77	1020.22	106.68	End Shut-In(1)
78	105.96	106.43	Open To Flow (2)
136	161.40	108.72	Shut-In(2)
196	994.68	110.42	End Shut-In(2)
200	1889.04	111.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1860 GIP	0.00
120.00	GSY MOCW 10%G 20%M 30%O 40%W	0.59
124.00	GSY OWCM 10%G 30%O 30%W 30%M	1.74
112.00	GSY MWCO 20%G 16%M 24%W 40%O	1.57

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford, KS

Brehm-Burke #3

Job Ticket: 52392 **DST#: 3**

Test Start: 2013.08.25 @ 11:31:03

GENERAL INFORMATION:

Formation: **LKC "J & K"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 12:58:48 Tester: Leal Cason
 Time Test Ended: 18:18:33 Unit No: 45
Interval: 3758.00 ft (KB) To 3820.00 ft (KB) (TVD) Reference Elevations: 1952.00 ft (KB)
 Total Depth: 3820.00 ft (KB) (TVD) 1947.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

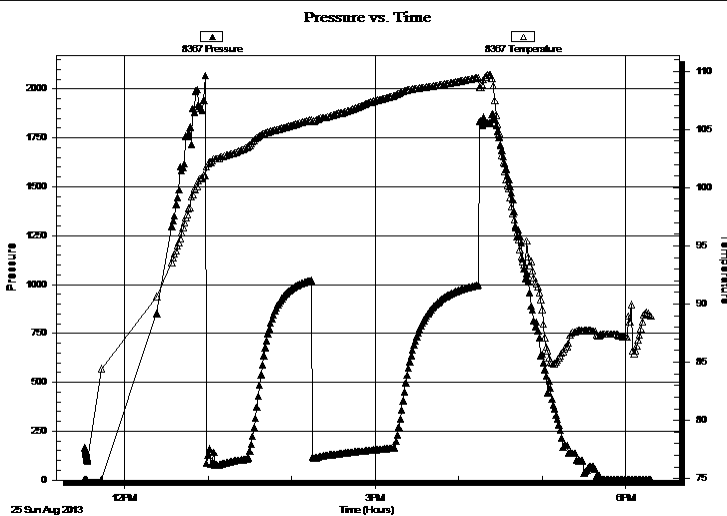
Serial #: 8367

Outside

Press @ Run Depth: psig @ 3759.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.25 End Date: 2013.08.25 Last Calib.: 2013.08.25
 Start Time: 11:31:04 End Time: 18:18:18 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
 IS: No Blow Back
 FF: Strong Blow , BOB in 2 minutes
 FS: No Blow Back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1860 GIP	0.00
120.00	GSY MOCW 10%G 20%M 30%O 40%W	0.59
124.00	GSY OWCM 10%G 30%O 30%W 30%M	1.74
112.00	GSY MWCO 20%G 16%M 24%W 40%O	1.57

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford,KS
Brehm-Burke #3
Job Ticket: 52392 **DST#: 3**
Test Start: 2013.08.25 @ 11:31:03

Tool Information

Drill Pipe:	Length: 3621.00 ft	Diameter: 3.80 inches	Volume: 50.79 bbl	Tool Weight:	2100.00 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: 51.38 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3758.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	62.00 ft				
Tool Length:	88.00 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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Shut In Tool	5.00			3737.00	
Hydraulic tool	5.00			3742.00	
Jars	5.00			3747.00	
Safety Joint	2.00			3749.00	
Packer	5.00			3754.00	26.00 Bottom Of Top Packer
Packer	4.00			3758.00	
Stubb	1.00			3759.00	
Recorder	0.00	6798	Inside	3759.00	
Recorder	0.00	8367	Outside	3759.00	
Perforations	10.00			3769.00	
Change Over Sub	1.00			3770.00	
Drill Pipe	31.00			3801.00	
Change Over Sub	1.00			3802.00	
Perforations	15.00			3817.00	
Bullnose	3.00			3820.00	62.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford,KS
Brehm-Burke #3
Job Ticket: 52392 **DST#: 3**
Test Start: 2013.08.25 @ 11:31:03

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:	60000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7500.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1860 GIP	0.000
120.00	GSY MOCW 10%G 20%M 30%O 40%W	0.590
124.00	GSY OWCM 10%G 30%O 30%W 30%M	1.739
112.00	GSY MWCO 20%G 16%M 24%W 40%O	1.571

Total Length: 356.00 ft Total Volume: 3.900 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW w as .1 @ 89 degrees

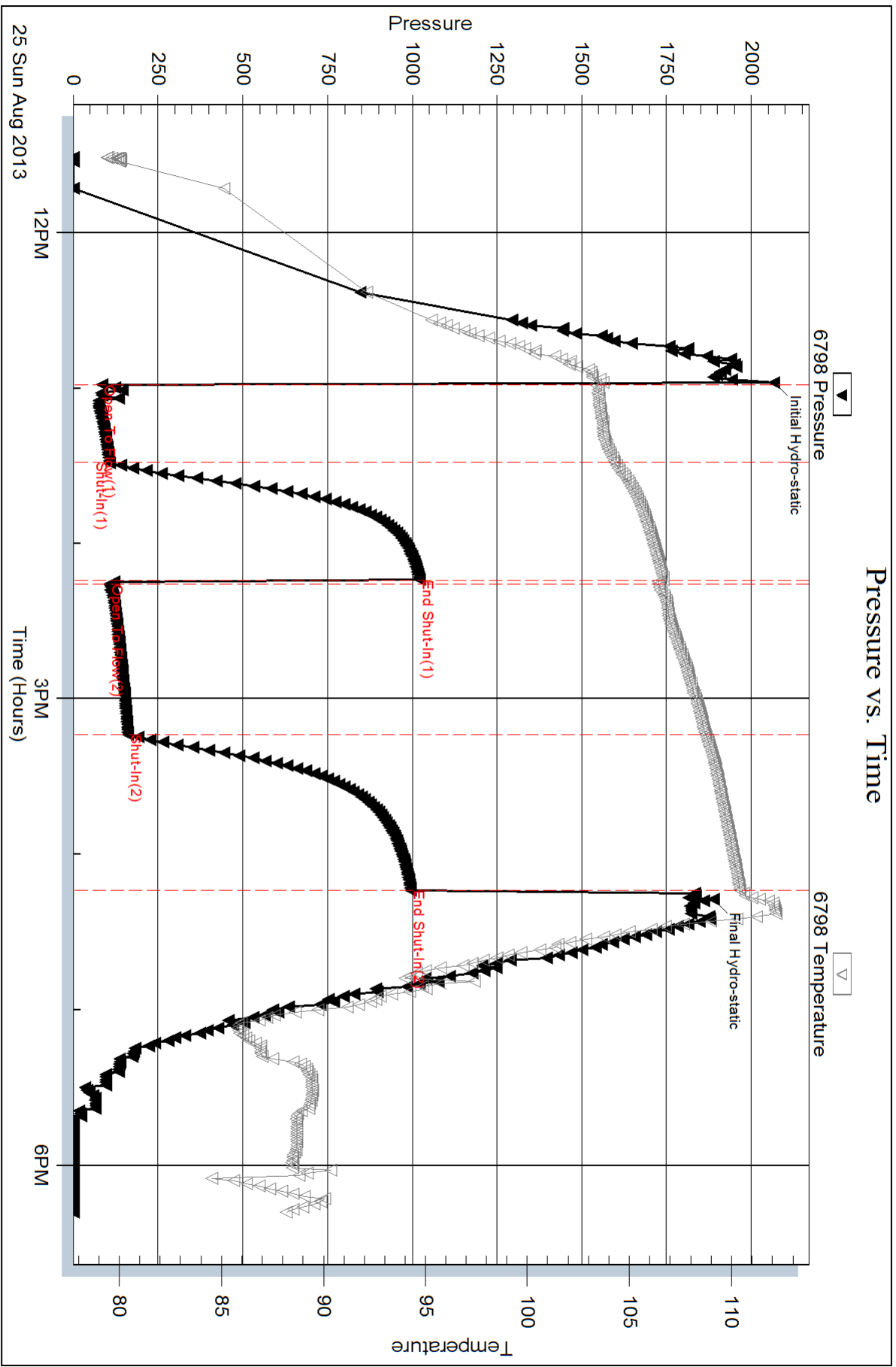
Serial #: 6798

Inside

Jones Oil

Brehn-Burke #3

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 52392

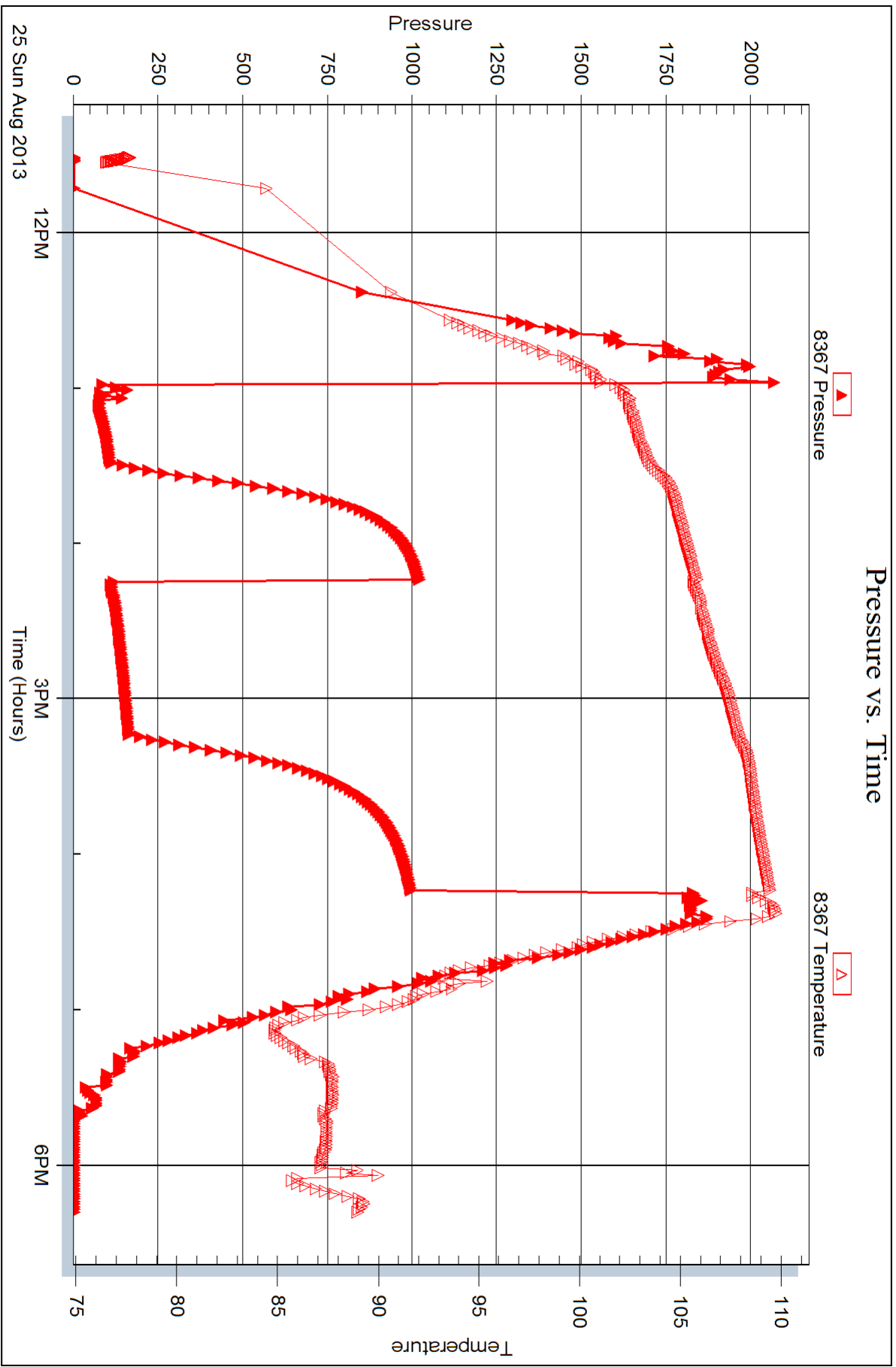
Printed: 2013.08.27 @ 11:56:10

Serial #: 8367

Outside Jones Oil

Brehn-Burke #3

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Jones Oil**

112 N Gray
St. John, KS 67576

ATTN: Jeff Burk

Brehm-Burke #3

2-24S-14W Stafford,KS

Start Date: 2013.08.26 @ 15:36:26

End Date: 2013.08.26 @ 20:59:26

Job Ticket #: 52393 DST #: 4

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

Printed: 2013.08.27 @ 11:51:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford, KS

Brehm-Burke #3

Job Ticket: 52393 **DST#: 4**

Test Start: 2013.08.26 @ 15:36:26

GENERAL INFORMATION:

Formation: **Mississippi Conglome**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:09:41

Time Test Ended: 20:59:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: 3957.00 ft (KB) To 4020.00 ft (KB) (TVD)

Reference Elevations: 1952.00 ft (KB)

Total Depth: 4020.00 ft (KB) (TVD)

1947.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6798 Inside

Press @ Run Depth: psig @ 3958.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.26

End Date: 2013.08.26

Last Calib.: 2013.08.26

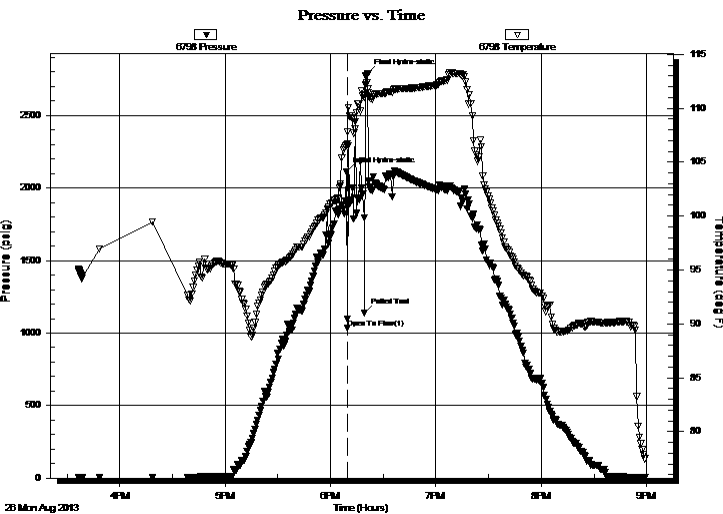
Start Time: 15:36:27

End Time: 20:59:26

Time On Btm: 2013.08.26 @ 18:08:56

Time Off Btm: 2013.08.26 @ 18:21:11

TEST COMMENT: IF: No Blow , Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.64	106.60	Initial Hydro-static
1	1035.77	107.78	Open To Flow (1)
11	1137.16	111.27	Pulled Tool
13	2791.35	111.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	Mud	7.60

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford, KS

Brehm-Burke #3

Job Ticket: 52393 **DST#: 4**

Test Start: 2013.08.26 @ 15:36:26

GENERAL INFORMATION:

Formation: **Mississippi Conglome**

Deviated: No Whipstock: ft (KB)

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Tester: Leal Cason

Unit No: 45

Interval: 3957.00 ft (KB) To 4020.00 ft (KB) (TVD)

Reference Elevations: 1952.00 ft (KB)

Total Depth: 4020.00 ft (KB) (TVD)

1947.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8367 Outside

Press @ RunDepth: psig @ 3958.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.26

End Date: 2013.08.26

Last Calib.: 2013.08.26

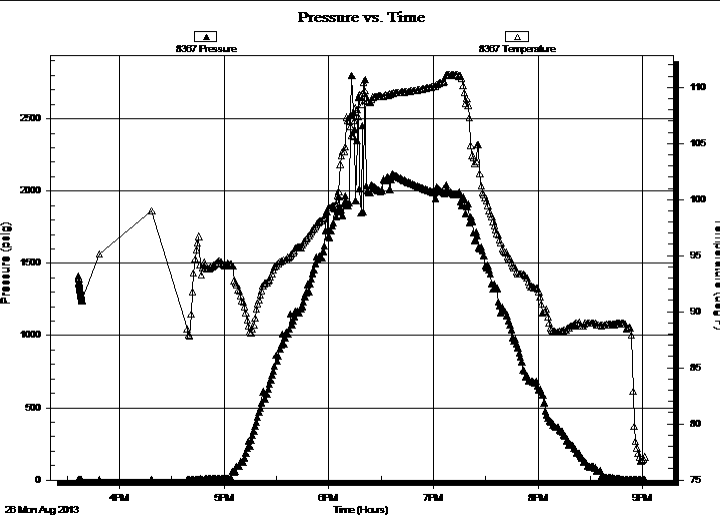
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End Time: 21:01:26

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: No Blow , Pulled Tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
620.00	Mud	7.60

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford,KS
Brehm-Burke #3
Job Ticket: 52393 **DST#: 4**
Test Start: 2013.08.26 @ 15:36:26

Tool Information

Drill Pipe:	Length: 3841.00 ft	Diameter: 3.80 inches	Volume: 53.88 bbl	Tool Weight: 2100.00 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: 70000.00 lb
		Total Volume: 54.47 bbl		Tool Chased 200.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3957.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool Slid And Opened While Trying To Get Through A Bridge On 4 Stands

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

Shut In Tool	5.00			3936.00	
Hydraulic tool	5.00			3941.00	
Jars	5.00			3946.00	
Safety Joint	2.00			3948.00	
Packer	5.00			3953.00	26.00 Bottom Of Top Packer
Packer	4.00			3957.00	
Stubb	1.00			3958.00	
Recorder	0.00	6798	Inside	3958.00	
Recorder	0.00	8367	Outside	3958.00	
Perforations	11.00			3969.00	
Change Over Sub	1.00			3970.00	
Drill Pipe	31.00			4001.00	
Change Over Sub	1.00			4002.00	
Perforations	15.00			4017.00	
Bullnose	3.00			4020.00	63.00 Bottom Packers & Anchor

Total Tool Length: 89.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Jones Oil
112 N Gray
St. John, KS 67576
ATTN: Jeff Burk

2-24S-14W Stafford,KS
Brehm-Burke #3
Job Ticket: 52393 **DST#: 4**
Test Start: 2013.08.26 @ 15:36:26

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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.02 inches			

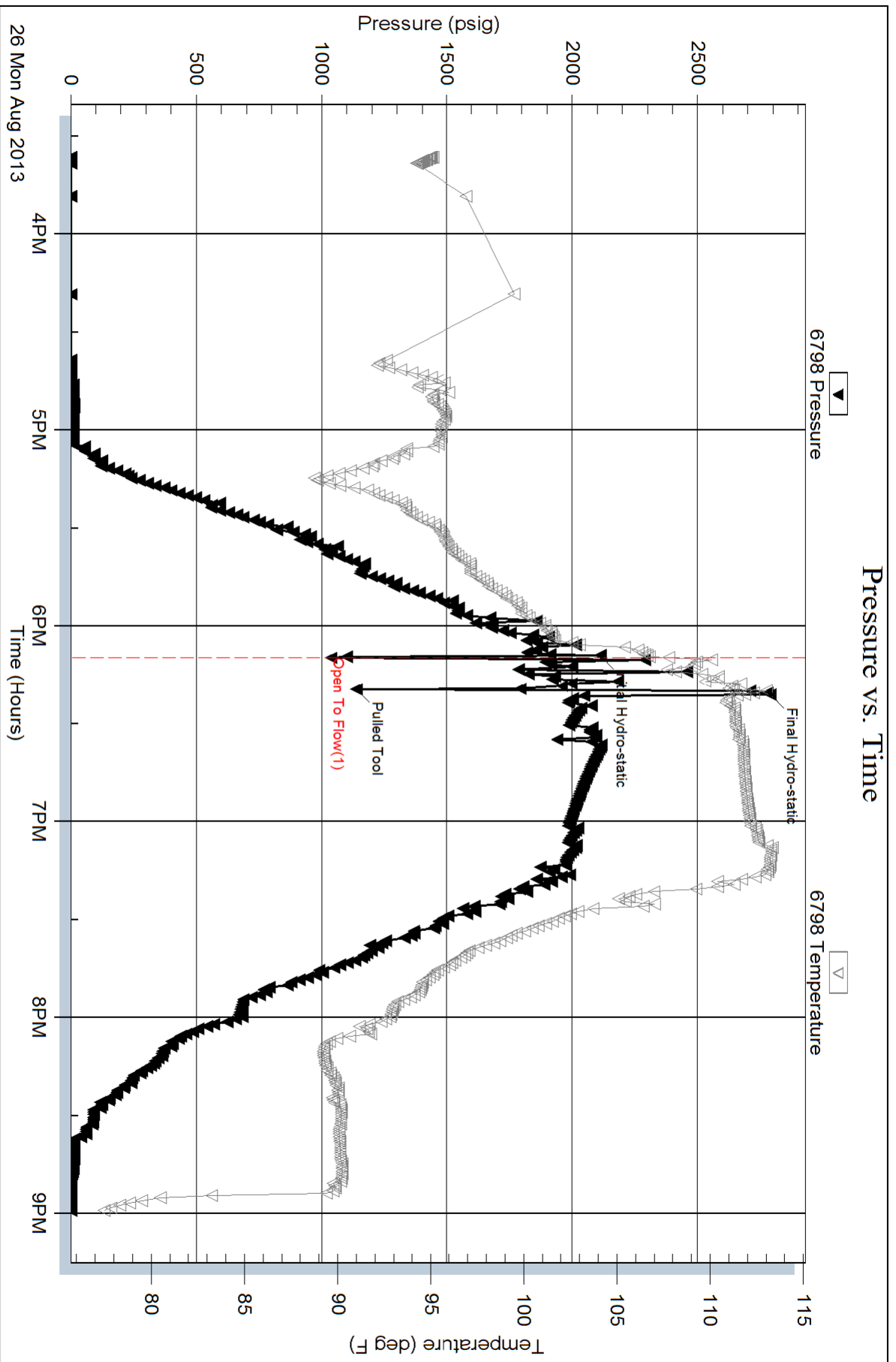
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	Mud	7.604

Total Length: 620.00 ft Total Volume: 7.604 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

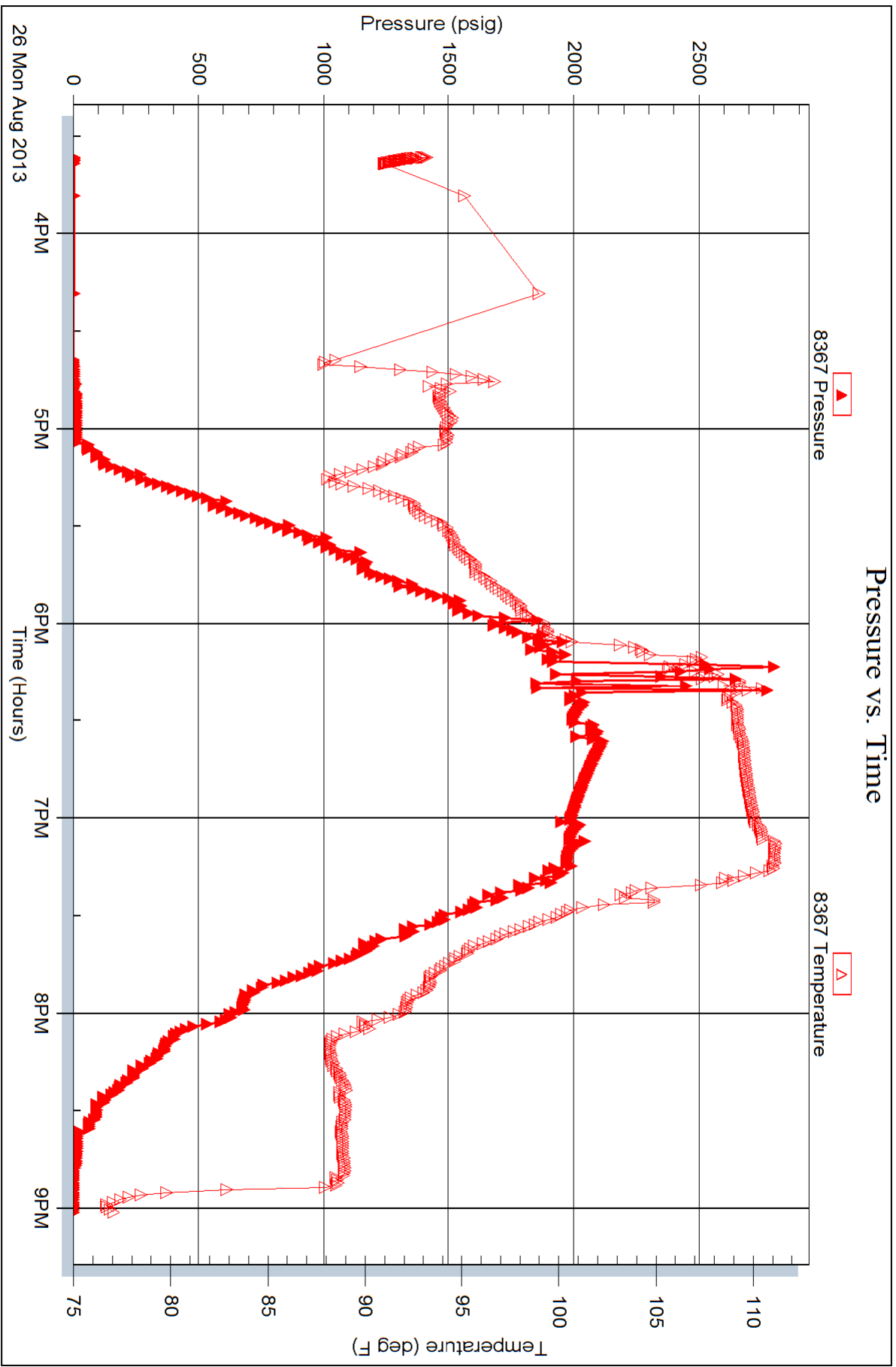


Serial #: 8367

Outside Jones Oil

Brehn-Burke #3

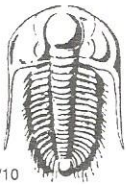
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 52393

Printed: 2013.08.27 @ 11:51:45



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52390

Well Name & No. Brehm - Burke 3 Test No. 1 Date 08/23/13
 Company Jones Oil Elevation 1952 KB 1947 GL
 Address 112 N Gray St. John, KS 67576
 Co. Rep / Geo. Jeff Burk Rig Petromark 2
 Location: Sec. 2 Twp. 24S Rge. 14W Co. Stafford State KS

Interval Tested 3677 - 3692 Zone Tested Lansing "F"
 Anchor Length 15 Drill Pipe Run 3557 Mud Wt. 9.2
 Top Packer Depth 3672 Drill Collars Run 120 Vis 67
 Bottom Packer Depth 3677 Wt. Pipe Run 0 WL 8.8
 Total Depth 3692 Chlorides 4000 ppm System LCM

Blow Description IF: strong blow, BOBin 3 minutes
IST: NO Blow Back

FF: strong blow, BOBin 3 minutes

FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2217</u>	<u>Feet of GIP</u>				
<u>80</u>	<u>Feet of GOMCW</u>	<u>12</u>	<u>18</u>	<u>40</u>	<u>30</u>
<u>62</u>	<u>Feet of OMcw</u>		<u>5</u>	<u>85</u>	<u>10</u>
<u>202</u>	<u>Feet of water</u>				

Rec Total 344 BHT 117 Gravity N/C API RW .095 @ 75 ° F Chlorides 87000 ppm

(A) Initial Hydrostatic 1898 Test 1250 T-On Location 23:45
 (B) First Initial Flow 26 Jars 250 T-Started 01:21
 (C) First Final Flow 83 Safety Joint 75 T-Open 03:45
 (D) Initial Shut-In 976 Circ Sub _____ T-Pulled 07:05
 (E) Second Initial Flow 80 Hourly Standby _____ T-Out 08:52
 (F) Second Final Flow 150 Mileage (50) 77.50 Comments _____
 (G) Final Shut-In 942 Sampler _____
 (H) Final Hydrostatic 1879 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1652.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1652.50

Approved By [Signature] Our Representative [Signature]

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52391

Well Name & No. Brehm - Burke 3 Test No. 2 Date 02/24/13
 Company Jones Oil Co Elevation 1952 KB 1947 GL
 Address 112 N. Gray St. John, KS 67576
 Co. Rep / Geo. Jeff Burk Rig Petromark 2
 Location: Sec. 2 Twp. 24S Rge. 14W Co. Stafford State KS

Interval Tested 3729 - 3760 Zone Tested Lansing "H+I"
 Anchor Length 31 Drill Pipe Run 3589 Mud Wt. 9.1
 Top Packer Depth 3724 Drill Collars Run 120 Vis 50
 Bottom Packer Depth 3729 Wt. Pipe Run 0 WL 8.8
 Total Depth 3760 Chlorides 4000 ppm System LCM

Blow Description IF: strong Blow, BOB in 90 seconds
ISI: No Blow Back

FF: strong Blow, BOB immediate, GTS in 20 minutes, TSTM, caught sample
FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>3629</u>	<u>Feet of GIP</u>				
<u>80</u>	<u>Feet of GSY SOWCM</u>	<u>5</u>	<u>2</u>	<u>12</u>	<u>81</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

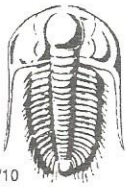
Rec Total 80 BHT 109 Gravity NIC API RW .12 @ 81 °F Chlorides 55,000 ppm

(A) Initial Hydrostatic 1918 Test 1250 T-On Location 18:15
 (B) First Initial Flow 21 Jars 250 T-Started 19:08
 (C) First Final Flow 32 Safety Joint 75 T-Open 20:46
 (D) Initial Shut-In 816 Circ Sub _____ T-Pulled 00:03
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 01:51
 (F) Second Final Flow 34 Mileage (50) 77.50 Comments _____
 (G) Final Shut-In 809 Sampler _____
 (H) Final Hydrostatic 1813 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1652.50
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1652.50

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52392

Well Name & No. Brenn - Burke 3 Test No. 3 Date 08/25/13
 Company Jones Oil Elevation 1952 KB 1947 GL
 Address 112 N. Gray St. John, KS 67576
 Co. Rep / Geo. Jeff Burk Rig Petromark 2
 Location: Sec. 2 Twp. 24S Rge. 14W Co. Stafford State KS

Interval Tested 3758 - 3820 Zone Tested Lansing "J+K"
 Anchor Length 62 Drill Pipe Run 3621 Mud Wt. 9.2
 Top Packer Depth 3753 Drill Collars Run 170 Vis 55
 Bottom Packer Depth 3758 Wt. Pipe Run 0 WL 8.8
 Total Depth 3820 Chlorides 7500 ppm System LCM

Blow Description IF: Strong Blow, BOB in 90 seconds
ISI: NO Blow Back

FF: Strong Blow, BOB in 2 minutes
FST: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1860</u>	<u>Feet of GIP</u>				
<u>112</u>	<u>Feet of GSY MWCO</u>	<u>20</u>	<u>40</u>	<u>24</u>	<u>16</u>
<u>124</u>	<u>Feet of GSY OWCM</u>	<u>10</u>	<u>30</u>	<u>30</u>	<u>30</u>
<u>120</u>	<u>Feet of GSY MOCW</u>	<u>10</u>	<u>30</u>	<u>40</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 356 BHT 111 Gravity N/C API RW .1 @ 89 °F Chlorides 60000 ppm

(A) Initial Hydrostatic <u>2067</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:30</u>
(B) First Initial Flow <u>85</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:31</u>
(C) First Final Flow <u>106</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:58</u>
(D) Initial Shut-In <u>1020</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>16:13</u>
(E) Second Initial Flow <u>106</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:18</u>
(F) Second Final Flow <u>161</u>	<input checked="" type="checkbox"/> Mileage <u>(50)</u> <u>77.50</u>	Comments _____
(G) Final Shut-In <u>995</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1889</u>	<input type="checkbox"/> Straddle	_____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1652.50</u>
	Sub Total <u>1652.50</u>	MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52393

Well Name & No. Brehm - Burke 3 Test No. 4 Date 08/26/13
 Company Jones Oil Elevation 1952 KB 1947 GL
 Address 112 N. Gray ST. John, KS 67576
 Co. Rep / Geo. Jeff Burk Rig Petromark 2
 Location: Sec. 2 Twp. 24S Rge. 14W Co. Stafford State KS

Interval Tested 3957 - 4020 Zone Tested Mississippi conglomerate
 Anchor Length 63 Drill Pipe Run 3841 Mud Wt. 8.9
 Top Packer Depth 3957 Drill Collars Run 120 Vis 74
 Bottom Packer Depth 3957 Wt. Pipe Run 0 WL 8.8
 Total Depth 4020 Chlorides 10,000 ppm System LCM 2
 Blow Description IF: No Blow, pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>620</u>	<u>Mud</u>				

Rec Total 620 BHT 112 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic Test 1050 T-On Location 14:15
 (B) First Initial Flow Jars 250 T-Started 15:36
 (C) First Final Flow Safety Joint 75 T-Open 18:09
 (D) Initial Shut-In Circ Sub _____ T-Pulled 18:19
 (E) Second Initial Flow Hourly Standby _____ T-Out 20:59
 (F) Second Final Flow Mileage 50 77.50 Comments Tool slid & opened
 (G) Final Shut-In Sampler _____ while going past bridge on
 (H) Final Hydrostatic Straddle _____ H stands
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open N/A Extra Packer _____ Sub Total 0
 Initial Shut-In N/A Extra Recorder _____ Total 1452.50
 Final Flow N/A Day Standby _____ MP/DST Disc't _____
 Final Shut-In N/A Accessibility _____
 Sub Total 1452.50

Approved By [Signature] Our Representative [Signature]
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