



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646-0428

ATTN: Richard Bell

Stapp-Ward Unit#1-32

32-2s-25w Norton,KS

Start Date: 2017.05.19 @ 07:41:00

End Date: 2017.05.19 @ 14:13:15

Job Ticket #: 65448 DST #: 1

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

Printed: 2017.05.23 @ 10:57:16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

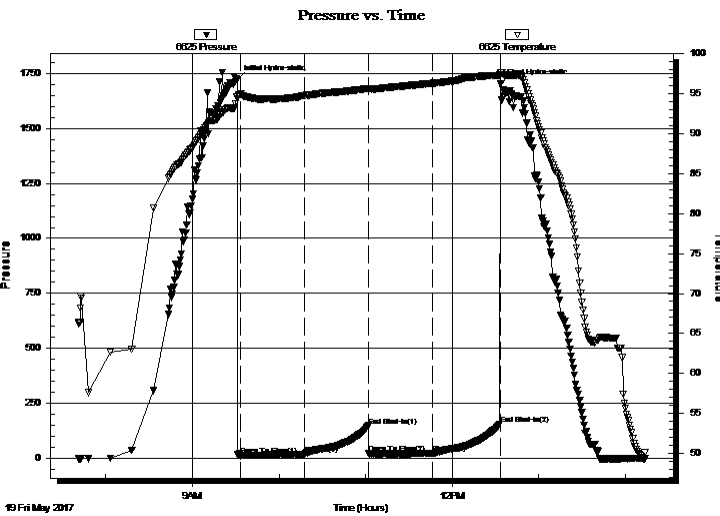
32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 65448 **DST#: 1**
 Test Start: 2017.05.19 @ 07:41:00

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:33:30
 Time Test Ended: 14:13:15
 Interval: **3529.00 ft (KB) To 3550.00 ft (KB) (TVD)**
 Total Depth: 3550.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 2555.00 ft (KB)
 2547.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625 Inside
 Press@RunDepth: 21.69 psig @ 3530.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.19 End Date: 2017.05.19 Last Calib.: 2017.05.19
 Start Time: 07:41:05 End Time: 14:13:14 Time On Btm: 2017.05.19 @ 09:31:00
 Time Off Btm: 2017.05.19 @ 12:33:30

TEST COMMENT: 45 - IF: Blow built to 2 1/2"
 45 - IS: No blow back
 45 - FF: No blow
 45 - FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.35	94.66	Initial Hydro-static
3	11.78	94.91	Open To Flow (1)
47	18.01	94.75	Shut-In(1)
91	148.10	95.64	End Shut-In(1)
91	22.28	95.63	Open To Flow (2)
135	21.69	96.27	Shut-In(2)
182	155.51	97.29	End Shut-In(2)
183	1704.55	97.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil 96%o, 2%g, 2%m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 65448 **DST#: 1**
 Test Start: 2017.05.19 @ 07:41:00

Tool Information

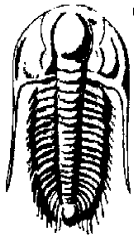
Drill Pipe:	Length: 3392.00 ft	Diameter: 3.80 inches	Volume: 47.58 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 48.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3529.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	50.00 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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Change Over Sub	1.00			3501.00	
Shut In Tool	5.00			3506.00	
Hydraulic tool	5.00			3511.00	
Jars	5.00			3516.00	
Safety Joint	3.00			3519.00	
Packer	5.00			3524.00	29.00 Bottom Of Top Packer
Packer	5.00			3529.00	
Stubb	1.00			3530.00	
Recorder	0.00	6625	Inside	3530.00	
Recorder	0.00	8017	Outside	3530.00	
Perforations	17.00			3547.00	
Bullnose	3.00			3550.00	21.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC
PO Box 428
Logan, KS 67646-0428
ATTN: Richard Bell

32-2s-25w Norton,KS
Stapp-Ward Unit#1-32
Job Ticket: 65448 **DST#: 1**
Test Start: 2017.05.19 @ 07:41:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.17 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 600.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Oil 96%o, 2%g, 2%m	0.074

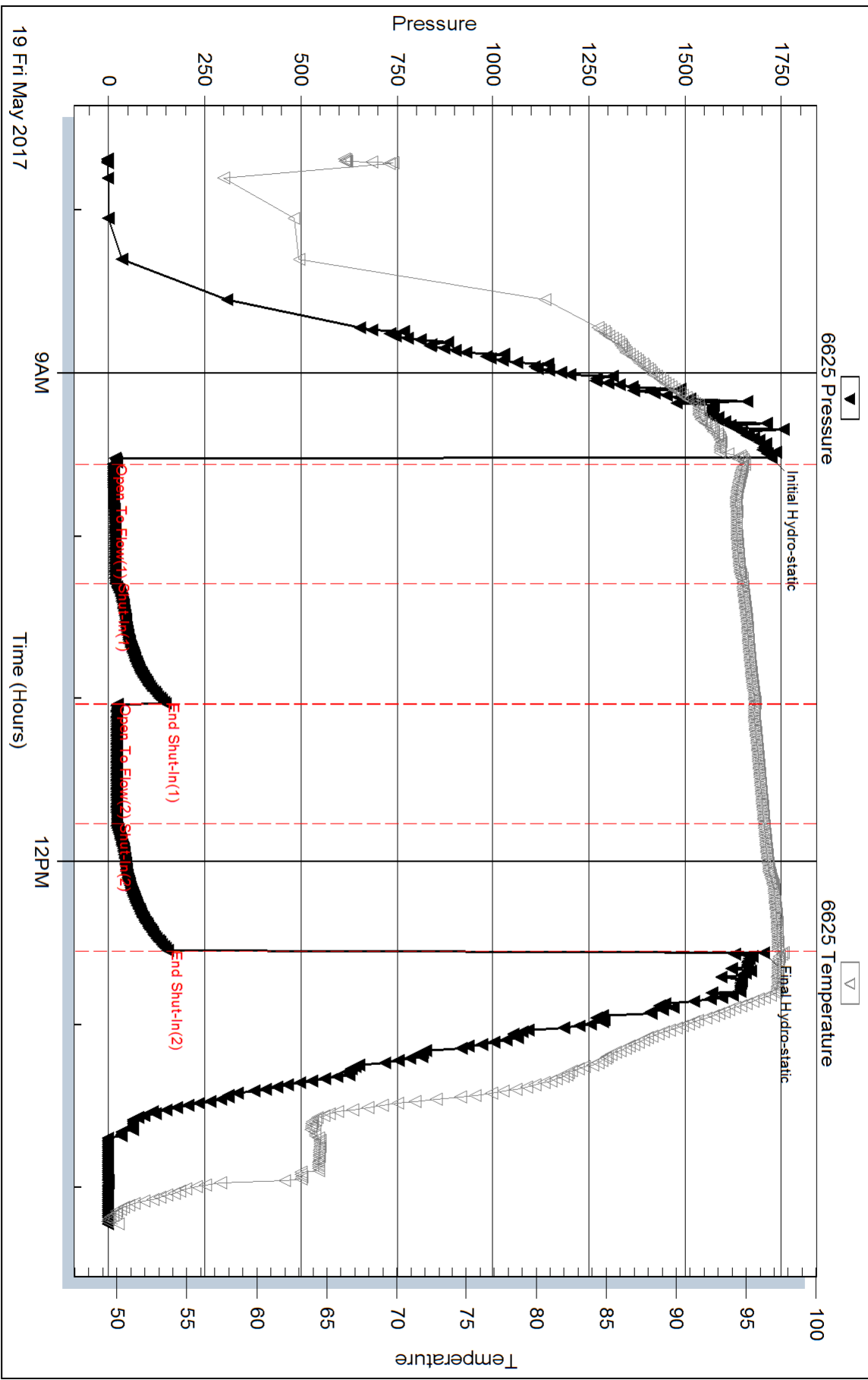
Total Length: 15.00 ft Total Volume: 0.074 bbl

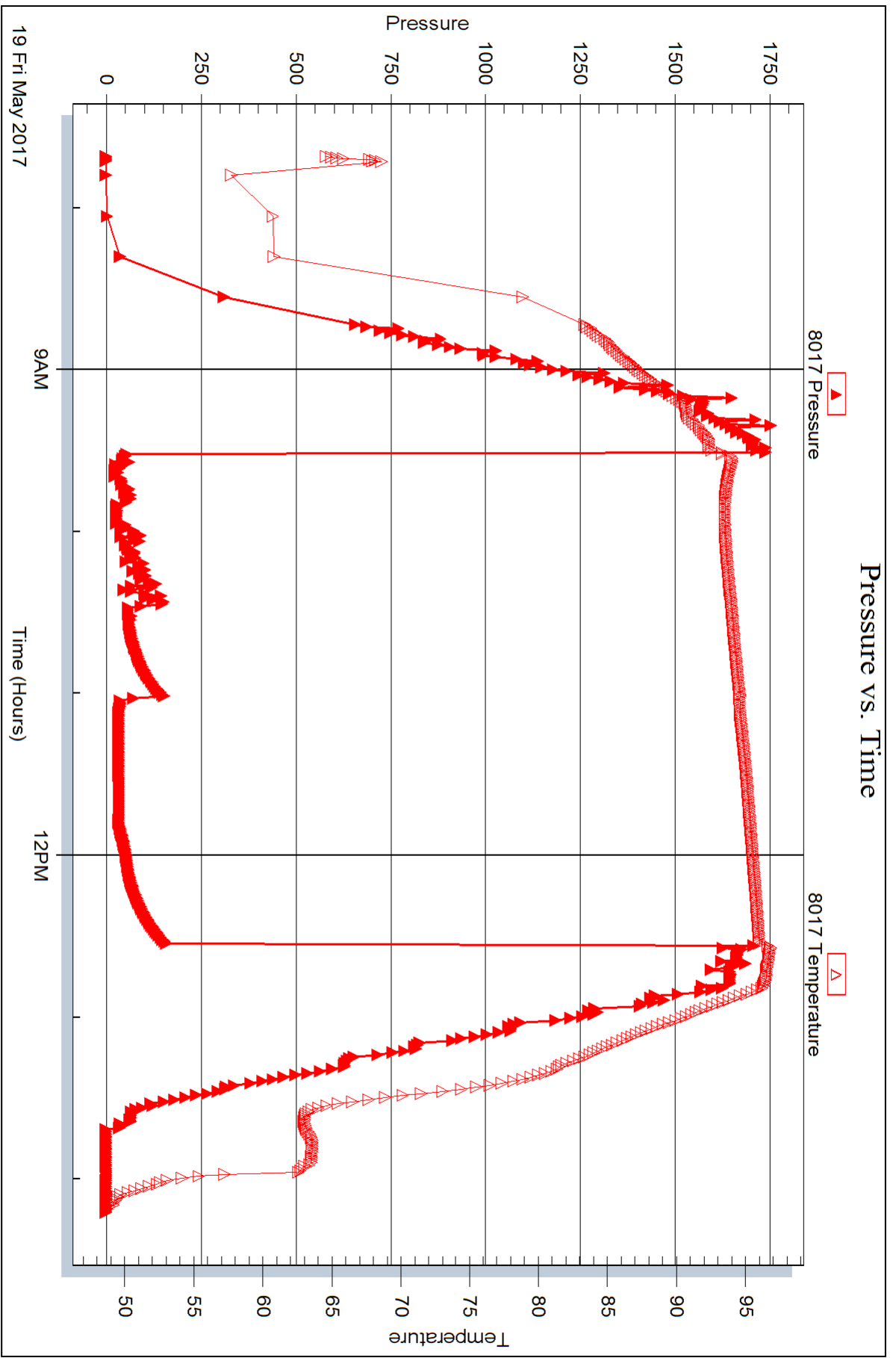
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 31.4 @ 54 deg F
Corrected Gravity = 32 api

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646-0428

ATTN: Richard Bell

Stapp-Ward Unit#1-32

32-2s-25w Norton,KS

Start Date: 2017.05.19 @ 20:31:00

End Date: 2017.05.20 @ 03:35:00

Job Ticket #: 65449 DST #: 2

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

Printed: 2017.05.23 @ 10:56:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 65449 **DST#: 2**
 Test Start: 2017.05.19 @ 20:31:00

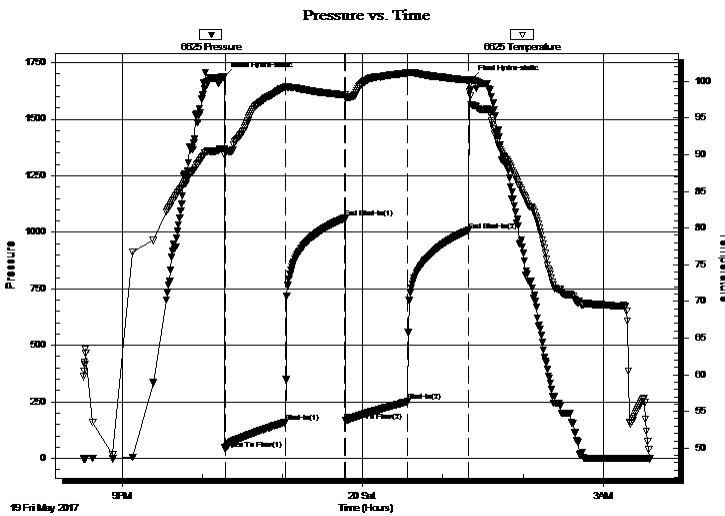
GENERAL INFORMATION:

Formation: **LKC "C - D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 22:17:00 Tester: James Winder
 Time Test Ended: 03:35:00 Unit No: 83
 Interval: **3528.00 ft (KB) To 3574.00 ft (KB) (TVD)** Reference Elevations: 2555.00 ft (KB)
 Total Depth: 3574.00 ft (KB) (TVD) 2547.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6625 Inside
 Press@RunDepth: 250.90 psig @ 3529.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.19 End Date: 2017.05.20 Last Calib.: 2017.05.20
 Start Time: 20:31:05 End Time: 03:34:59 Time On Btm: 2017.05.19 @ 22:16:30
 Time Off Btm: 2017.05.20 @ 01:21:00

TEST COMMENT: 45 - IF: 1 1/2" Blow at open, built to BOB (11") at 14 min.
 45 - IS: No blow back
 45 - FF: Blow built to BOB at 22 min.
 45 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.68	90.71	Initial Hydro-static
1	42.12	90.48	Open To Flow (1)
46	160.20	99.22	Shut-In(1)
90	1062.42	98.13	End Shut-In(1)
91	166.43	97.71	Open To Flow (2)
137	250.90	101.16	Shut-In(2)
183	1008.56	100.16	End Shut-In(2)
185	1676.11	96.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
490.00	MCW w/trace oil 80%w, 20%m	5.78
10.00	WCM w/trace oil 78%m, 22%w	0.14

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton,KS
Stapp-Ward Unit#1-32
 Job Ticket: 65449 **DST#: 2**
 Test Start: 2017.05.19 @ 20:31:00

Tool Information

Drill Pipe:	Length: 3388.00 ft	Diameter: 3.80 inches	Volume: 47.52 bbl	Tool Weight:	2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 48.11 bbl</u>	Tool Chased	4.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3528.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	75.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: tool chased 4' to bottom at open, lost a few feet of mud - 1 1/2" surge blow at open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3500.00	
Shut In Tool	5.00			3505.00	
Hydraulic tool	5.00			3510.00	
Jars	5.00			3515.00	
Safety Joint	3.00			3518.00	
Packer	5.00			3523.00	29.00 Bottom Of Top Packer
Packer	5.00			3528.00	
Stubb	1.00			3529.00	
Recorder	0.00	6625	Inside	3529.00	
Recorder	0.00	8017	Outside	3529.00	
Perforations	8.00			3537.00	
Blank Spacing	34.00			3571.00	
Bullnose	3.00			3574.00	46.00 Bottom Packers & Anchor

Total Tool Length: 75.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 65449 **DST#: 2**
 Test Start: 2017.05.19 @ 20:31:00

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:	29000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.16 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 600.00 ppm			
Filter Cake: 2.00 inches			

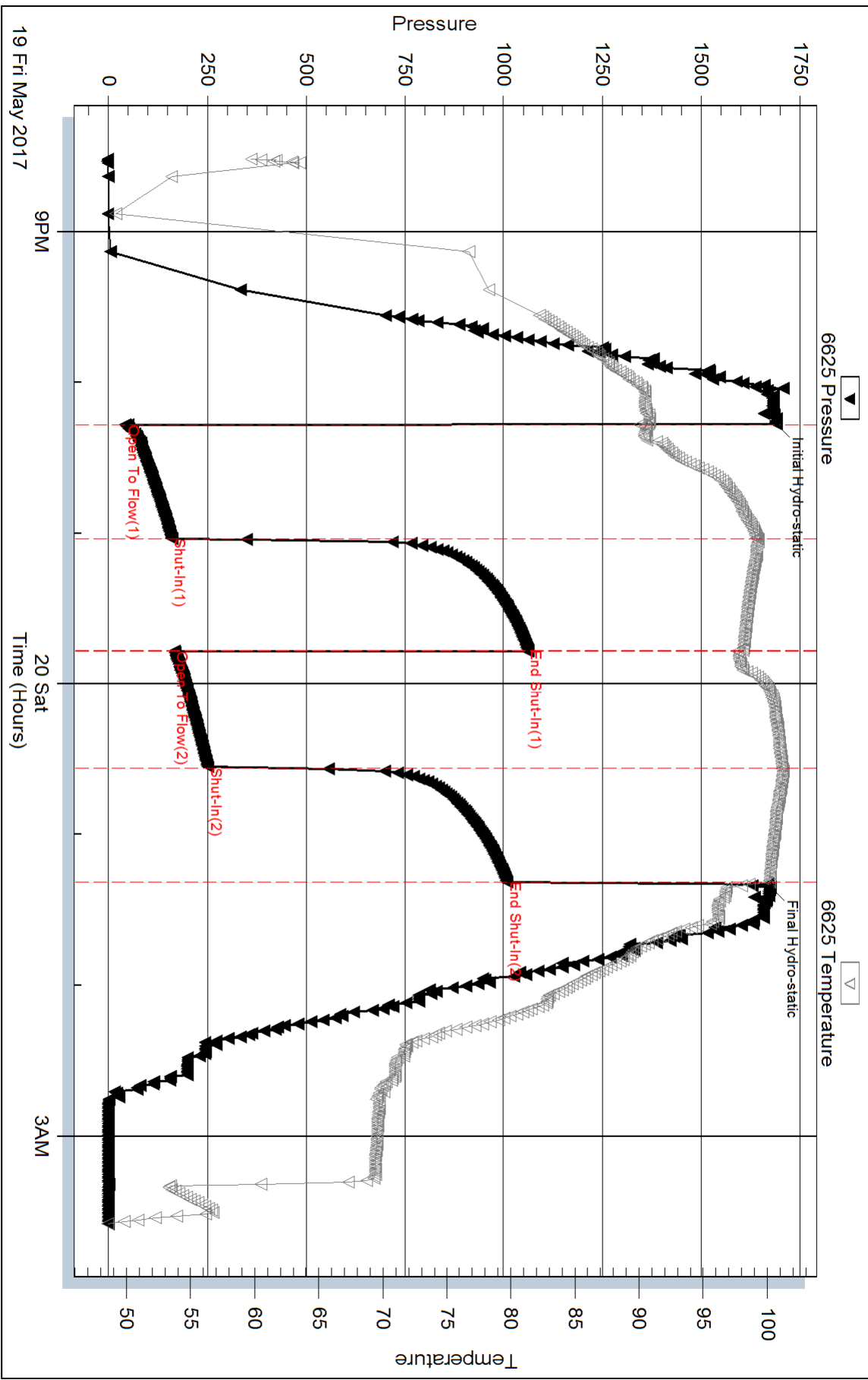
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
490.00	MCW w/trace oil 80%w , 20%m	5.780
10.00	WCM w/trace oil 78%m, 22%w	0.140

Total Length: 500.00 ft Total Volume: 5.920 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW = .348 ohms @ 51 deg F
 Chlorides = 29000 ppm

Pressure vs. Time



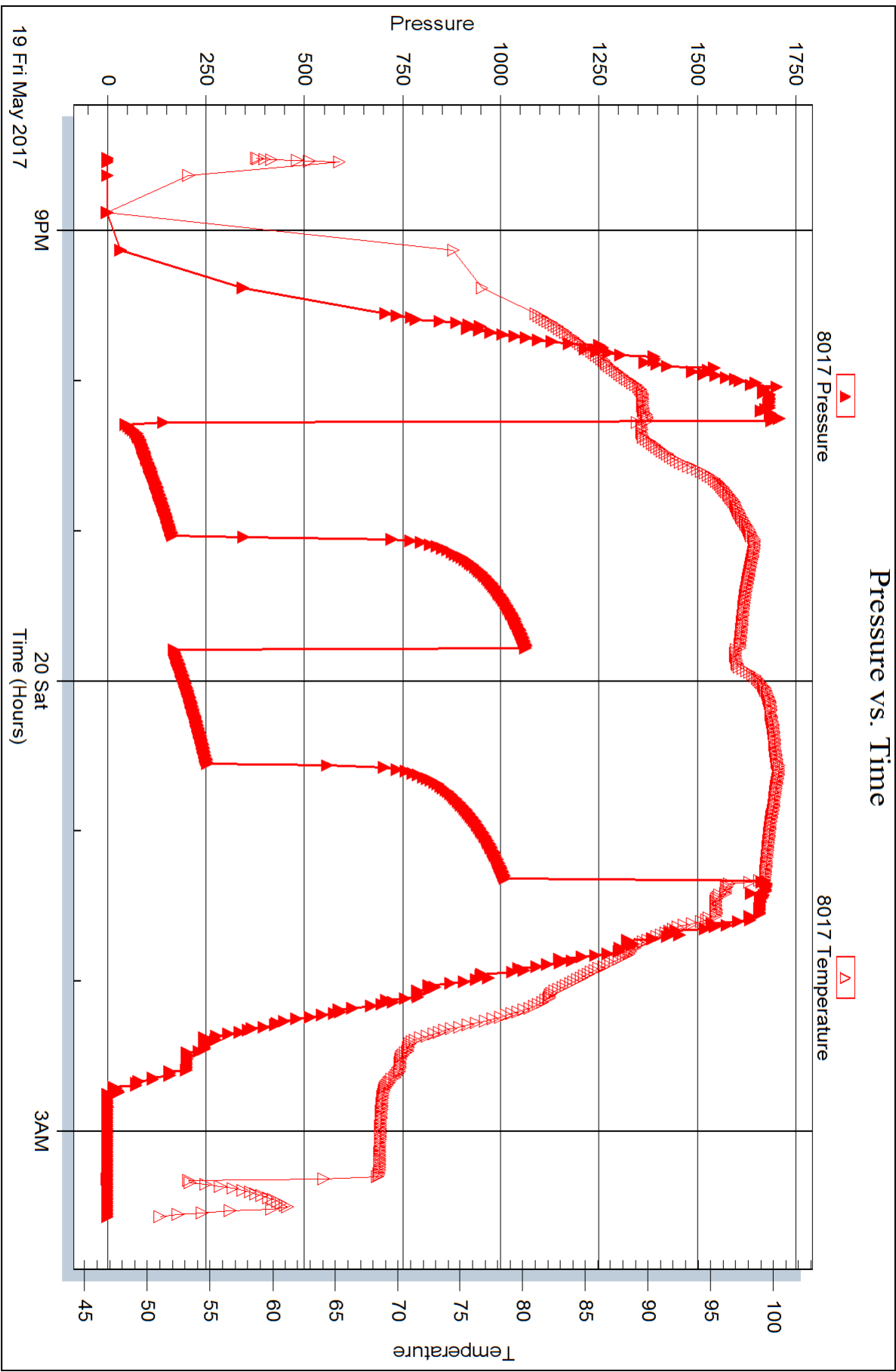
Serial #: 8017

Outside

Baird Oil Co., LLC

Stapp-Ward Unit#1-32

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65449

Printed: 2017.05.23 @ 10:56:15



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646-0428

ATTN: Richard Bell

Stapp-Ward Unit#1-32

32-2s-25w Norton,KS

Start Date: 2017.05.20 @ 12:49:00

End Date: 2017.05.20 @ 17:27:45

Job Ticket #: 65450 DST #: 3

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

Printed: 2017.05.23 @ 10:55:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 65450 **DST#: 3**
 Test Start: 2017.05.20 @ 12:49:00

GENERAL INFORMATION:

Formation: **LKC "E - F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:36:00
 Time Test Ended: 17:27:45
 Interval: **3572.00 ft (KB) To 3595.00 ft (KB) (TVD)**
 Total Depth: 3595.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 2555.00 ft (KB)
 2547.00 ft (CF)
 KB to GR/CF: 8.00 ft

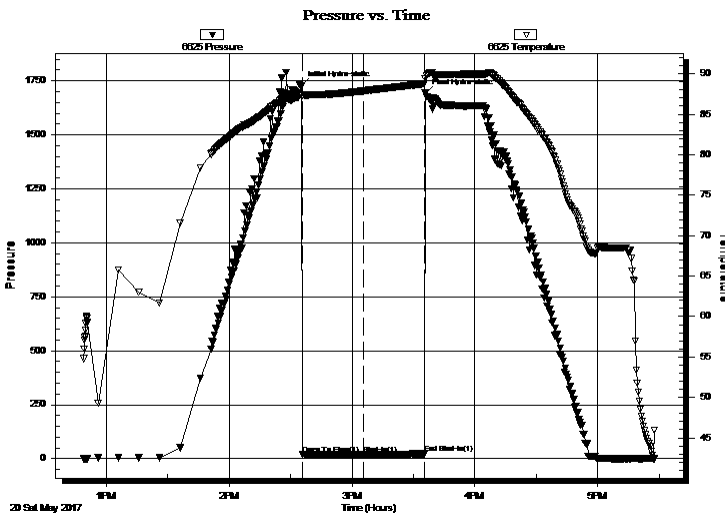
Serial #: 6625

Inside

Press@RunDepth: 18.51 psig @ 3573.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.20 End Date: 2017.05.20 Last Calib.: 2017.05.20
 Start Time: 12:49:05 End Time: 17:27:44 Time On Btm: 2017.05.20 @ 14:35:15
 Time Off Btm: 2017.05.20 @ 15:35:45

TEST COMMENT: 30 - IF: Blow built to 1/4", intermittent blow at 1/4" through open
 30 - IS: No blow back
 pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.53	87.44	Initial Hydro-static
1	19.15	87.32	Open To Flow (1)
31	18.51	87.89	Shut-In(1)
60	22.84	88.78	End Shut-In(1)
61	1692.83	89.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 65450 **DST#: 3**
 Test Start: 2017.05.20 @ 12:49:00

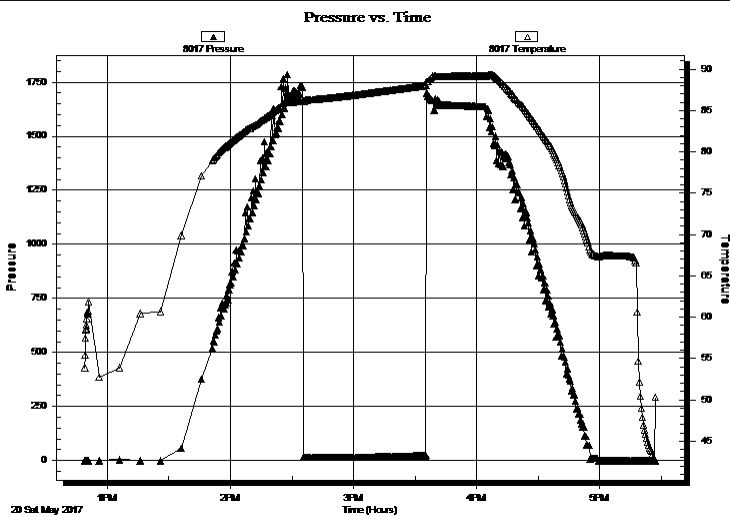
GENERAL INFORMATION:

Formation: **LKC "E - F"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:36:00 Tester: James Winder
 Time Test Ended: 17:27:45 Unit No: 83

Interval: 3572.00 ft (KB) To 3595.00 ft (KB) (TVD) Reference Elevations: 2555.00 ft (KB)
 Total Depth: 3595.00 ft (KB) (TVD) 2547.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8017 Outside
 Press@RunDepth: psig @ 3573.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.20 End Date: 2017.05.20 Last Calib.: 2017.05.20
 Start Time: 12:49:05 End Time: 17:27:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 1/4", intermittent blow at 1/4" through open
 30 - IS: No blow back
 pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 65450 **DST#: 3**
 Test Start: 2017.05.20 @ 12:49:00

Tool Information

Drill Pipe:	Length: 3451.00 ft	Diameter: 3.80 inches	Volume: 48.41 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 49.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3572.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	52.00 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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Change Over Sub	1.00			3544.00	
Shut In Tool	5.00			3549.00	
Hydraulic tool	5.00			3554.00	
Jars	5.00			3559.00	
Safety Joint	3.00			3562.00	
Packer	5.00			3567.00	29.00 Bottom Of Top Packer
Packer	5.00			3572.00	
Stubb	1.00			3573.00	
Recorder	0.00	6625	Inside	3573.00	
Recorder	0.00	8017	Outside	3573.00	
Perforations	19.00			3592.00	
Bullnose	3.00			3595.00	23.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC
PO Box 428
Logan, KS 67646-0428
ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
Job Ticket: 65450 **DST#: 3**
Test Start: 2017.05.20 @ 12:49:00

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud 100%	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

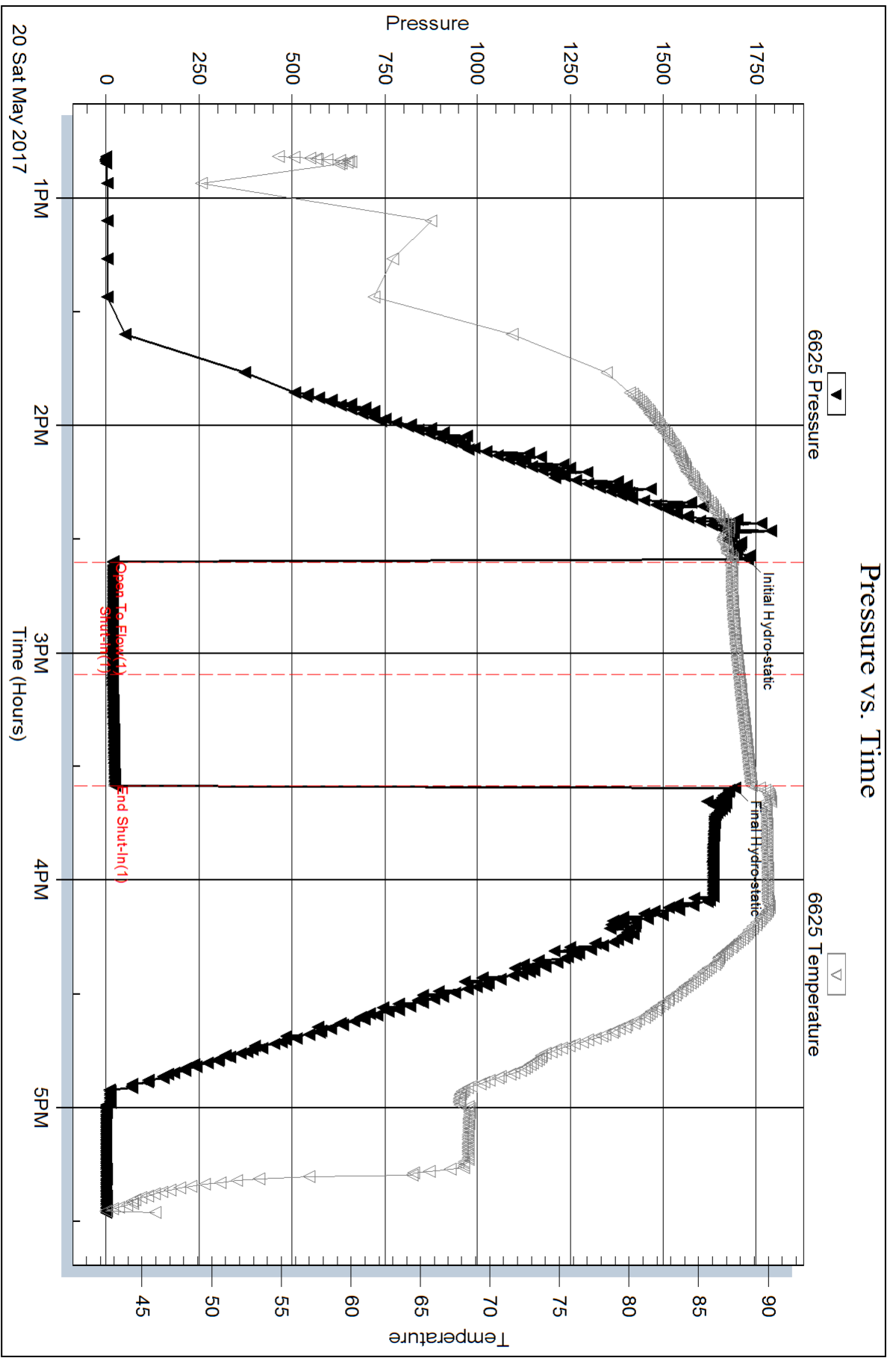
Serial #: 6625

Inside

Baird Oil Co., LLC

Stapp-Ward Unit#1-32

DST Test Number: 3

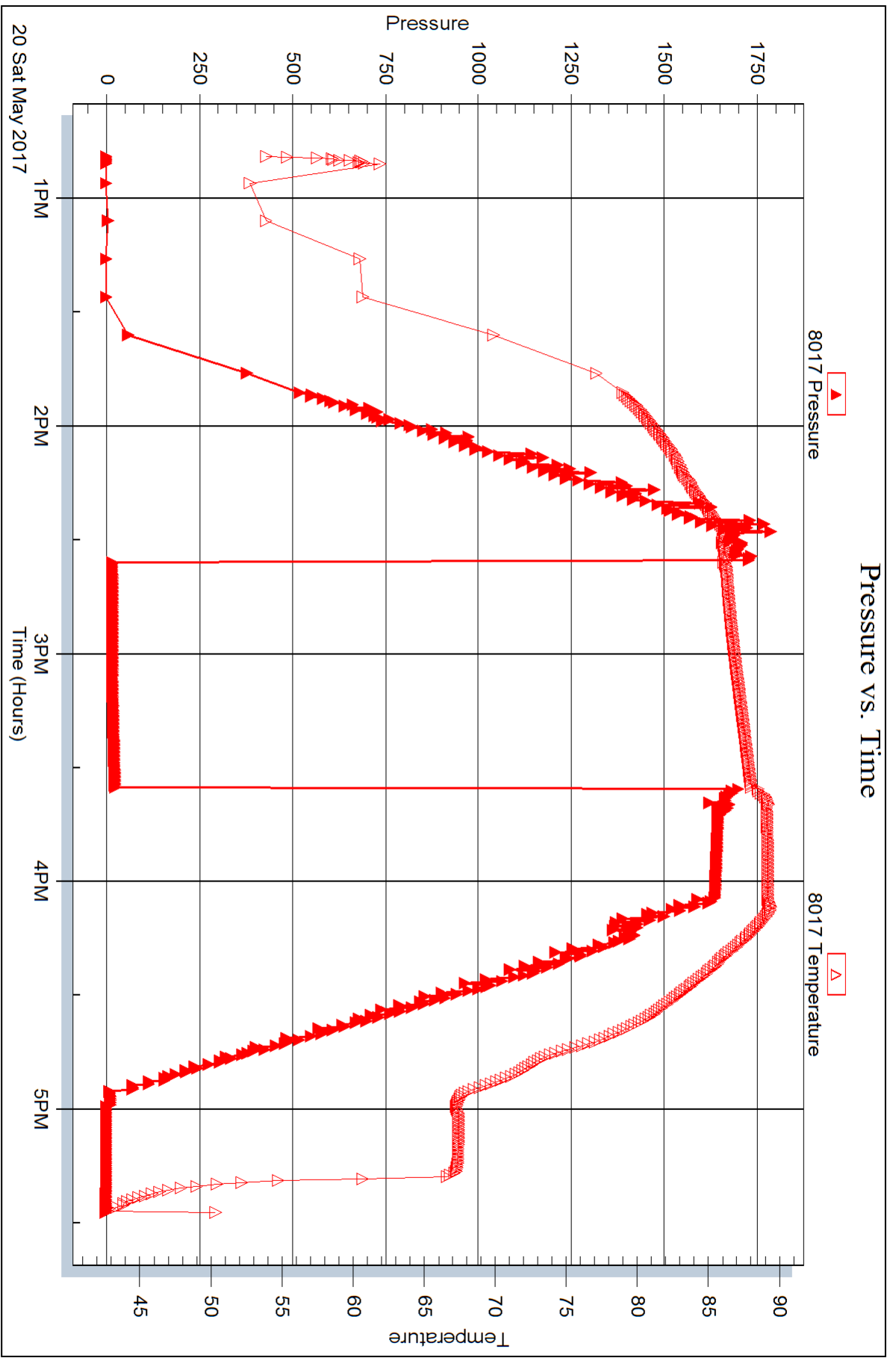


Serial #: 8017

Outside Baird Oil Co., LLC

Stapp-Ward Unit#1-32

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646-0428

ATTN: Richard Bell

Stapp-Ward Unit#1-32

32-2s-25w Norton,KS

Start Date: 2017.05.21 @ 04:19:00

End Date: 2017.05.21 @ 08:47:15

Job Ticket #: 63126 DST #: 4

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

Printed: 2017.05.23 @ 10:55:11

Baird Oil Co., LLC
32-2s-25w Norton,KS
Stapp-Ward Unit#1-32
DST # 4
LKC "r"
2017.05.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

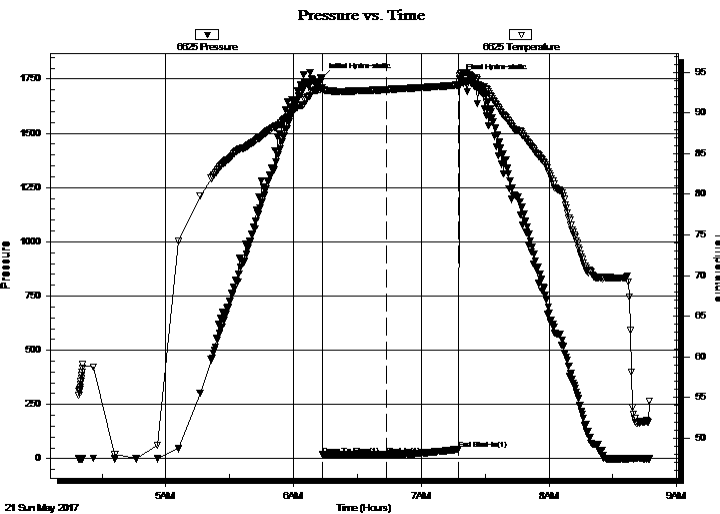
32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 63126 **DST#: 4**
 Test Start: 2017.05.21 @ 04:19:00

GENERAL INFORMATION:

Formation: **LKC "I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:13:45
 Time Test Ended: 08:47:15
 Interval: **3640.00 ft (KB) To 3670.00 ft (KB) (TVD)**
 Total Depth: 3670.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 2555.00 ft (KB)
 2547.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625 Inside
 Press@RunDepth: 17.82 psig @ 3641.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.21 End Date: 2017.05.21 Last Calib.: 2017.05.21
 Start Time: 04:19:05 End Time: 08:47:14 Time On Btm: 2017.05.21 @ 06:13:30
 Time Off Btm: 2017.05.21 @ 07:18:00

TEST COMMENT: 30 - IF: 1/4" Blow at open, slowly died back, dead at 18 min.
 30 - IS: No blow pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.96	93.11	Initial Hydro-static
1	17.94	92.86	Open To Flow (1)
30	17.82	92.89	Shut-In(1)
64	43.90	93.45	End Shut-In(1)
65	1752.37	94.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w /trace oil 100%m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co., LLC
PO Box 428
Logan, KS 67646-0428
ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
Job Ticket: 63126 **DST#: 4**
Test Start: 2017.05.21 @ 04:19:00

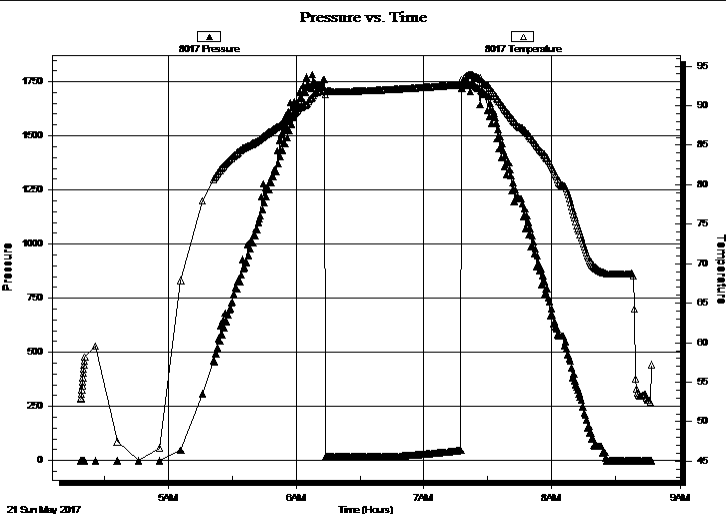
GENERAL INFORMATION:

Formation: **LKC "I"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 06:13:45 Tester: James Winder
Time Test Ended: 08:47:15 Unit No: 83
Interval: 3640.00 ft (KB) To 3670.00 ft (KB) (TVD) Reference Elevations: 2555.00 ft (KB)
Total Depth: 3670.00 ft (KB) (TVD) 2547.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8017 Outside

Press@RunDepth: psig @ 3641.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.05.21 End Date: 2017.05.21 Last Calib.: 2017.05.21
Start Time: 04:19:05 End Time: 08:46:44 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF: 1/4" Blow at open, slowly died back, dead at 18 min.
30 - IS: No blow pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w /trace oil 100%m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton,KS
Stapp-Ward Unit#1-32
 Job Ticket: 63126 **DST#: 4**
 Test Start: 2017.05.21 @ 04:19:00

Tool Information

Drill Pipe:	Length: 3514.00 ft	Diameter: 3.80 inches	Volume: 49.29 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 49.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3640.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	59.00 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			3612.00	
Shut In Tool	5.00			3617.00	
Hydraulic tool	5.00			3622.00	
Jars	5.00			3627.00	
Safety Joint	3.00			3630.00	
Packer	5.00			3635.00	29.00 Bottom Of Top Packer
Packer	5.00			3640.00	
Stubb	1.00			3641.00	
Recorder	0.00	6625	Inside	3641.00	
Recorder	0.00	8017	Outside	3641.00	
Perforations	26.00			3667.00	
Bullnose	3.00			3670.00	30.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 63126 **DST#: 4**
 Test Start: 2017.05.21 @ 04:19:00

Mud and Cushion Information

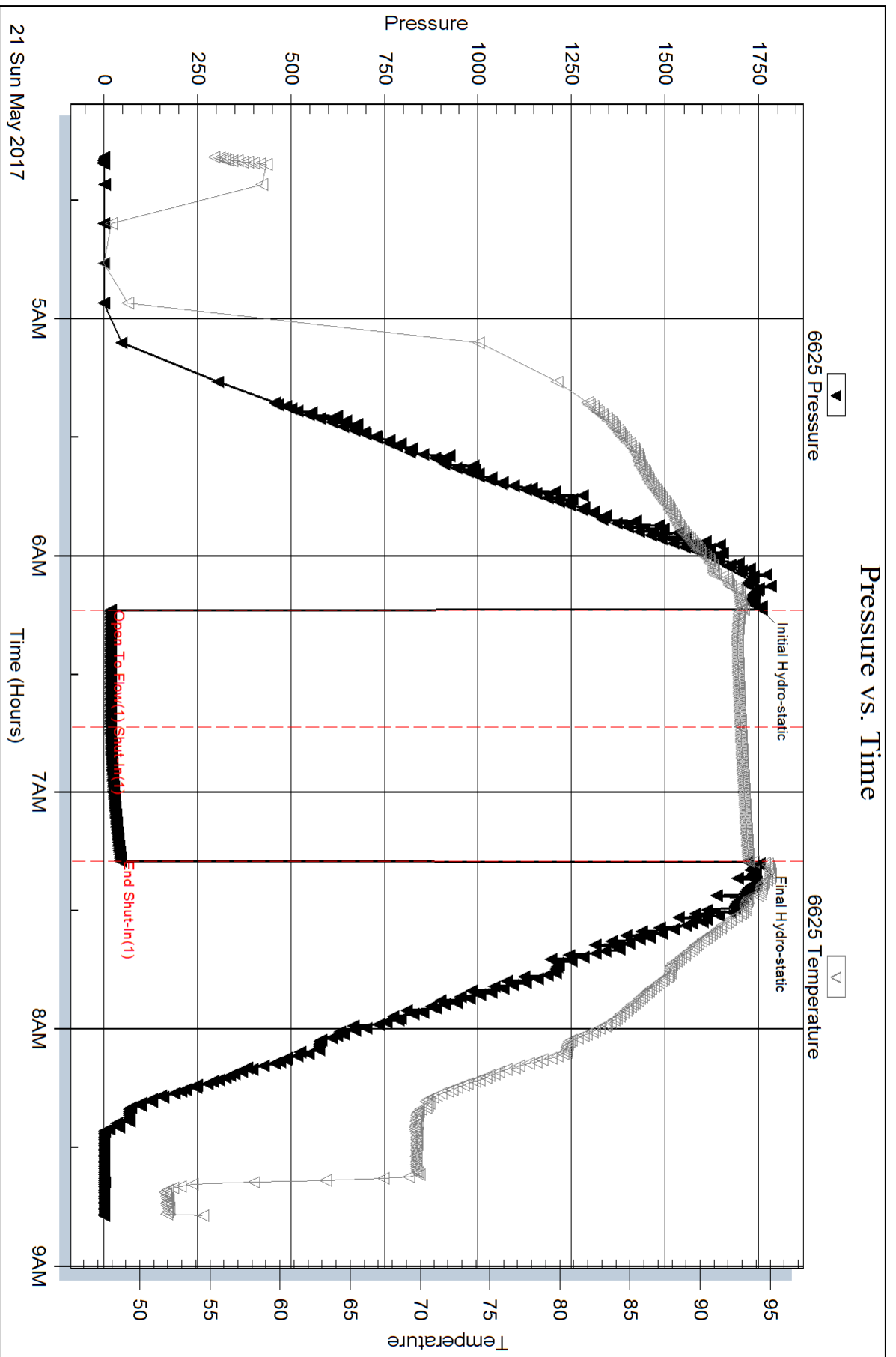
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud w /trace oil 100%m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

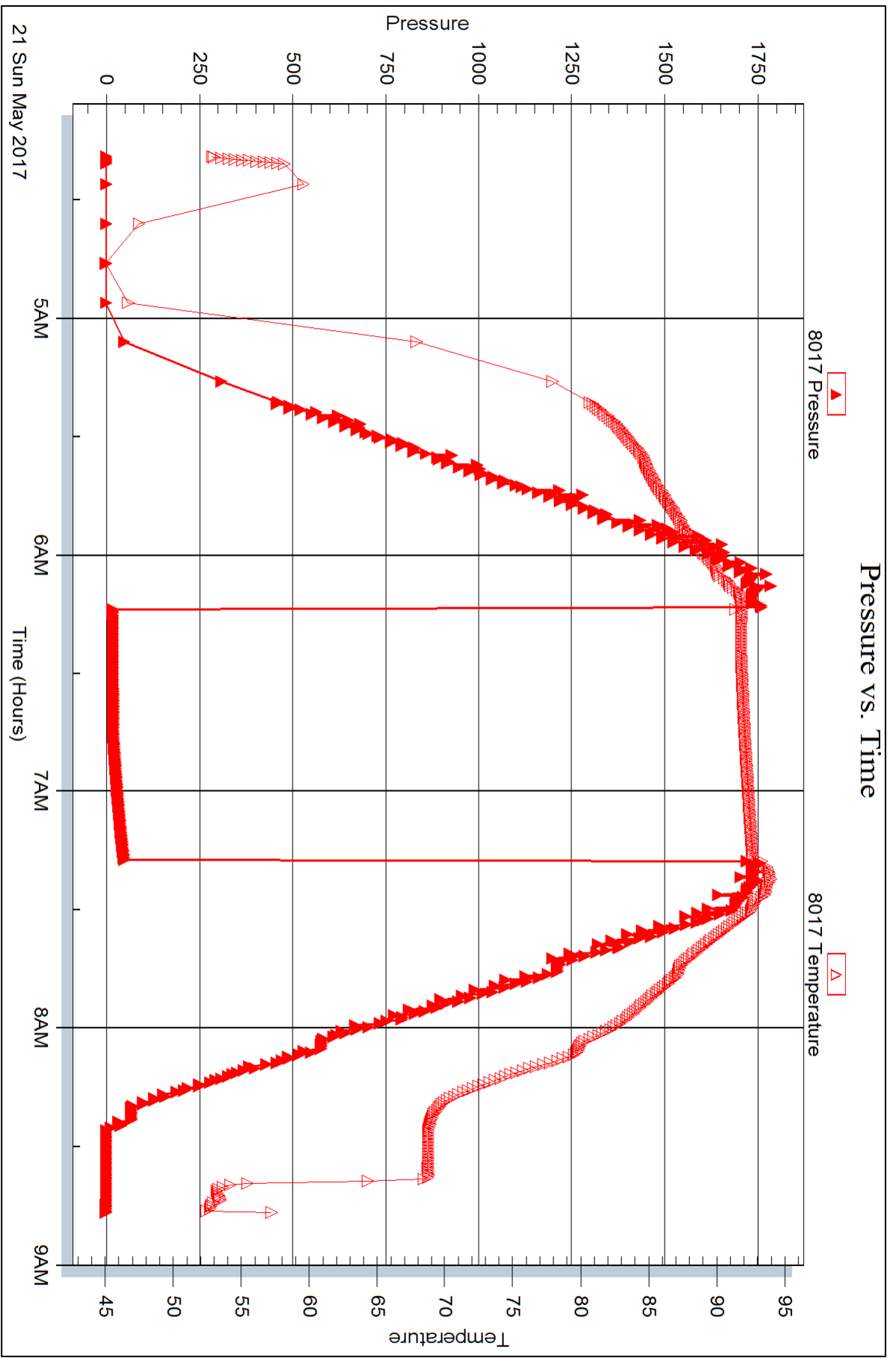


Serial #: 8017

Outside Baird Oil Co., LLC

Stapp-Ward Unit#1-32

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co., LLC**

PO Box 428
Logan, KS 67646-0428

ATTN: Richard Bell

Stapp-Ward Unit#1-32

32-2s-25w Norton,KS

Start Date: 2017.05.21 @ 15:40:00

End Date: 2017.05.21 @ 21:45:45

Job Ticket #: 63127 DST #: 5

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

Printed: 2017.05.23 @ 10:54:01

Baird Oil Co., LLC 32-2s-25w Norton,KS Stapp-Ward Unit#1-32 DST # 5 LKC "J" 2017.05.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 63127 **DST#: 5**
 Test Start: 2017.05.21 @ 15:40:00

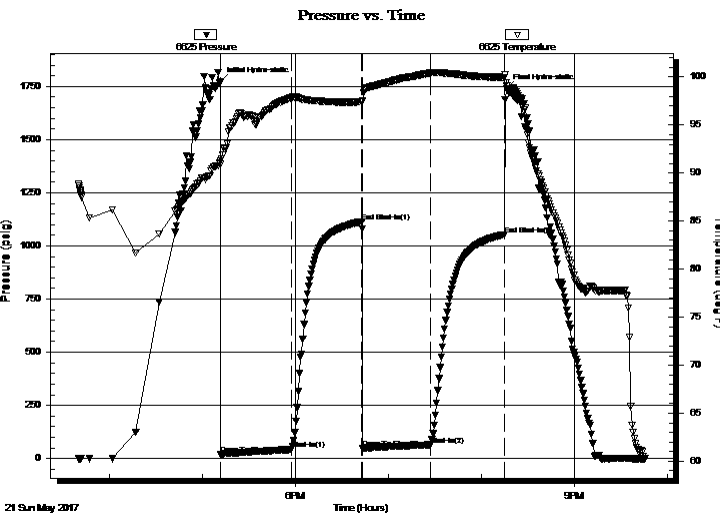
GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:11:45 Tester: James Winder
 Time Test Ended: 21:45:45 Unit No: 83
 Interval: **3670.00 ft (KB) To 3692.00 ft (KB) (TVD)** Reference Elevations: 2555.00 ft (KB)
 Total Depth: 3692.00 ft (KB) (TVD) 2547.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press@RunDepth: 64.50 psig @ 3671.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.21 End Date: 2017.05.21 Last Calib.: 2017.05.21
 Start Time: 15:40:05 End Time: 21:45:44 Time On Btm: 2017.05.21 @ 17:11:30
 Time Off Btm: 2017.05.21 @ 20:16:15

TEST COMMENT: 45 - IF: Blow built to 2 1/2"
 45 - IS: No blow back
 45 - FF: Blow started at 5 min., built to 1"
 45 - FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.35	91.27	Initial Hydro-static
1	17.83	90.94	Open To Flow (1)
46	42.07	97.91	Shut-In(1)
92	1114.33	97.43	End Shut-In(1)
92	48.72	97.50	Open To Flow (2)
136	64.50	100.43	Shut-In(2)
184	1053.80	99.98	End Shut-In(2)
185	1740.17	99.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SMCW w/trace oil 94% w, 6% m	0.30
30.00	MCW w/Oil spots 66%w, 33% m, 1% o	0.15

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 63127 **DST#: 5**
 Test Start: 2017.05.21 @ 15:40:00

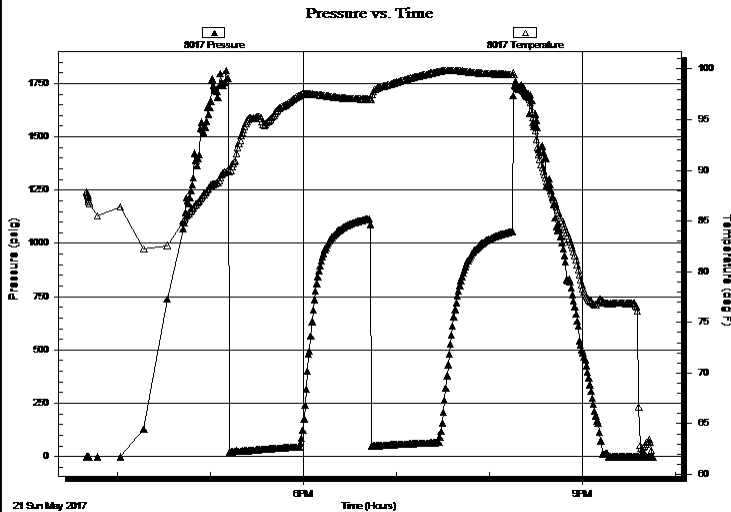
GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:11:45
 Time Test Ended: 21:45:45
 Interval: **3670.00 ft (KB) To 3692.00 ft (KB) (TVD)**
 Total Depth: 3692.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 83
 Reference Elevations: 2555.00 ft (KB)
 2547.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8017 Outside

Press@RunDepth: psig @ 3671.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.21 End Date: 2017.05.21 Last Calib.: 2017.05.21
 Start Time: 15:40:05 End Time: 21:45:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: 45 - IF: Blow built to 2 1/2"
 45 - IS: No blow back
 45 - FF: Blow started at 5 min., built to 1"
 45 - FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SMCW w/trace oil 94% w, 6% m	0.30
30.00	MCW w/Oil spots 66%w, 33%w, 1%o	0.15

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 63127 **DST#: 5**
 Test Start: 2017.05.21 @ 15:40:00

Tool Information

Drill Pipe:	Length: 3546.00 ft	Diameter: 3.80 inches	Volume: 49.74 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 50.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3670.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	51.00 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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Change Over Sub	1.00			3642.00	
Shut In Tool	5.00			3647.00	
Hydraulic tool	5.00			3652.00	
Jars	5.00			3657.00	
Safety Joint	3.00			3660.00	
Packer	5.00			3665.00	29.00 Bottom Of Top Packer
Packer	5.00			3670.00	
Stubb	1.00			3671.00	
Recorder	0.00	6625	Inside	3671.00	
Recorder	0.00	8017	Outside	3671.00	
Perforations	18.00			3689.00	
Bullnose	3.00			3692.00	22.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co., LLC
 PO Box 428
 Logan, KS 67646-0428
 ATTN: Richard Bell

32-2s-25w Norton, KS
Stapp-Ward Unit#1-32
 Job Ticket: 63127 **DST#: 5**
 Test Start: 2017.05.21 @ 15:40:00

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:	21000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SMCW w/trace oil 94% w , 6% m	0.295
30.00	MCW w/Oil spots 66%w , 33%m, 1%o	0.148

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .332 ohms @ 68 deg F
 Chlorides = 21,000 ppm

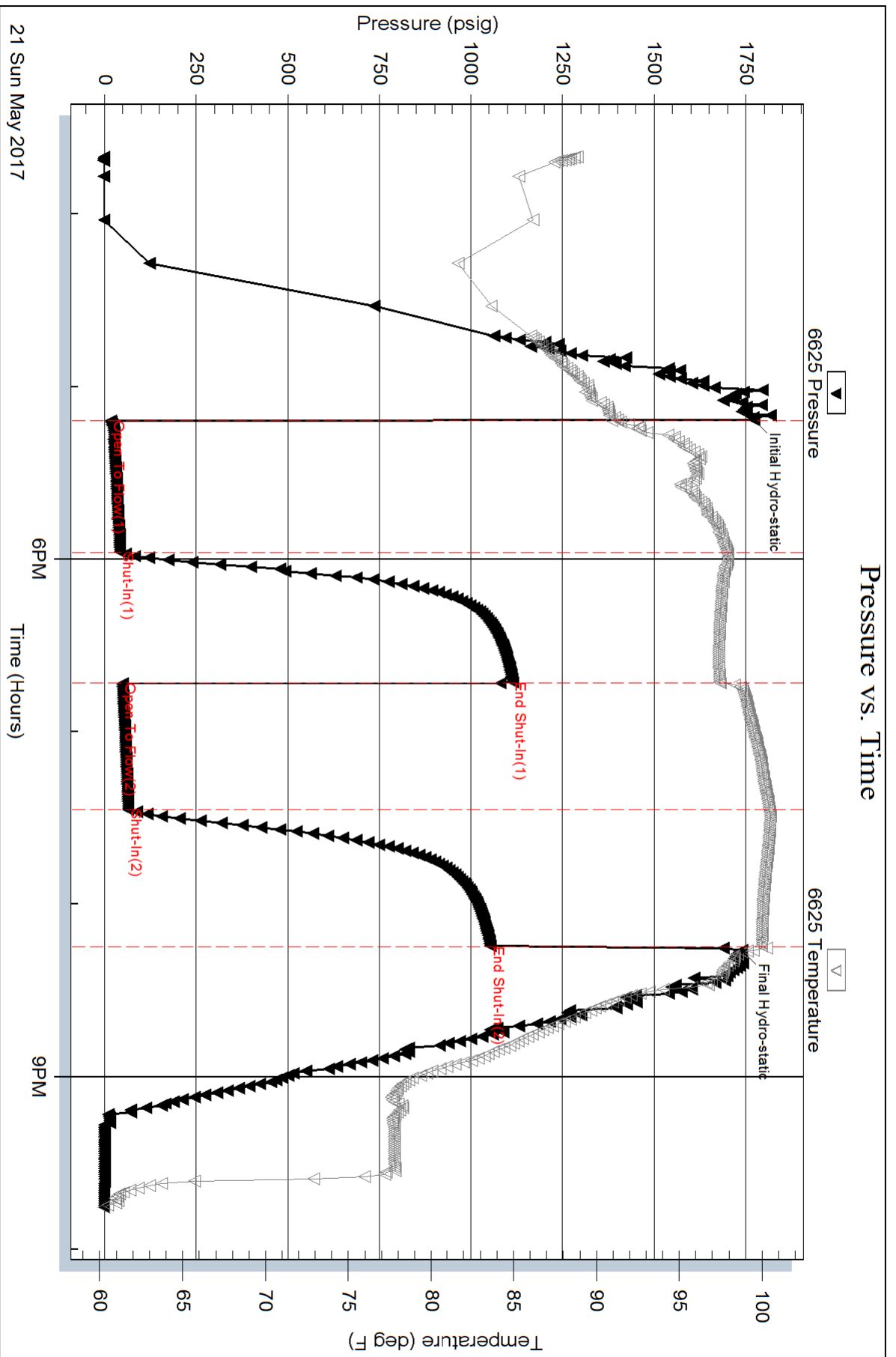
Serial #: 6625

Inside

Baird Oil Co., LLC

Stapp-Ward Unit#1-32

DST Test Number: 5

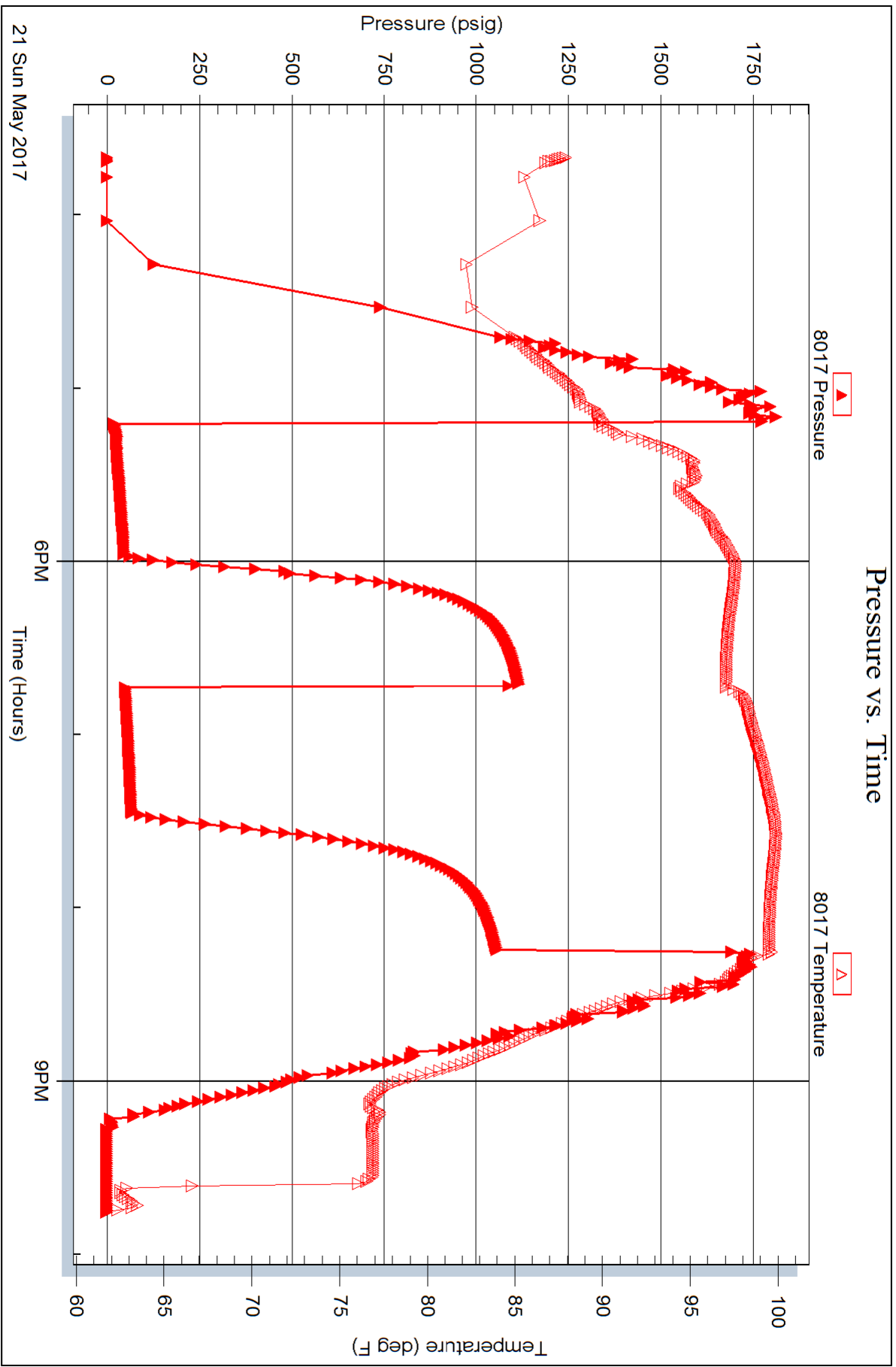


Serial #: 8017

Outside Baird Oil Co., LLC

Stapp-Ward Unit#1-32

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 63127

Printed: 2017.05.23 @ 10:54:16



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65448**

Well Name & No. Stapp-Ward Unit #1-32 Test No. 1 Date 5-19-17
 Company Baird Oil Co. LLC Elevation 2555 KB 2547 GL
 Address PO Box 428 Logan KS 67646-0428
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 32 Twp. 2s Rge. 25w Co. Norton State KS

Interval Tested 3529-3550 Zone Tested LKC "C"
 Anchor Length 21 Drill Pipe Run 3393 Mud Wt. 8.6
 Top Packer Depth 3524 Drill Collars Run 120 Vis 48
 Bottom Packer Depth 3529 Wt. Pipe Run - WL 7.2
 Total Depth 3550 Chlorides 600 ppm System LCM 1

Blow Description IF: Blow built to 2 1/2"
ISI: No blowback
FF: No blow
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Oil</u>	<u>2</u>	<u>96</u>	<u>-</u>	<u>2</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 15 BHT 97 Gravity 32 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1723 Test 1050 T-On Location 5:45
 (B) First Initial Flow 12 Jars 250 T-Started 7:41
 (C) First Final Flow 18 Safety Joint 75 T-Open 9:33
 (D) Initial Shut-In 148 Circ Sub _____ T-Pulled 12:33
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 14:00
 (F) Second Final Flow 22 Mileage 42 RT 31.50 Comments to catwalk at 7:10
 (G) Final Shut-In 156 Sampler _____
 (H) Final Hydrostatic 1705 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 45 Extra Packer _____
 Initial Shut-In 45 Extra Recorder _____
 Final Flow 45 Day Standby _____
 Final Shut-In 45 Accessibility _____
 Sub Total 1406.50 Sub Total 1406.50
 Total 1406.50 MP/DST Disc't _____

Approved By Richard Bell Our Representative James Winder

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. **65449**

Well Name & No. Stapp - Ward Unit #1-32 Test No. 2 Date 5-19-17
 Company Baird Oil Co. LLC Elevation 2555 KB 2547 GL
 Address PO Box 428 Logan KS 67646-0428
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 32 Twp. 2s Rge. 25W Co. Norton State KS

Interval Tested 3528 - 3574 Zone Tested LKC "C-D"
 Anchor Length 46 Drill Pipe Run 3388 Mud Wt. 9.0
 Top Packer Depth 3523 Drill Collars Run 120 Vis 51
 Bottom Packer Depth 3528 Wt. Pipe Run - WL 7.2
 Total Depth 3574 Chlorides 600 ppm System LCM 1 1/2
 Blow Description IF: 1 1/2" Blow at open, built to BOB (11") at 14 min.
ISI: No blowback
FF: Blow built to BOB at 22 min.
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>WCM</u>		<u>22</u>	<u>78</u>	
<u>490</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 500 BHT 100 Gravity _____ API RW 348 @ 51 °F Chlorides 29000 ppm

(A) Initial Hydrostatic <u>1690</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>20:10</u>
(B) First Initial Flow <u>42</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:31</u>
(C) First Final Flow <u>160</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:17</u>
(D) Initial Shut-In <u>1062</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1:19</u>
(E) Second Initial Flow <u>166</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:30</u>
(F) Second Final Flow <u>251</u>	<input checked="" type="checkbox"/> Mileage <u>42 RT</u> <u>31.50</u>	Comments <u>Tool chased 4' to bottom - lost a few ft of mud 1 1/2" surge blow</u>
(G) Final Shut-In <u>1009</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1676</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1406.50</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1406.50</u>	

Approved By Richard Bell

Our Representative James Winter

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. **65450**

Well Name & No. Stapp-Ward Unit #1-32 Test No. 3 Date 5-20-17
 Company Baird Oil Co. LLC Elevation 2555 KB 2547 GL
 Address PO Box 428 Logan KS 67646-0428
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 32 Twp. 2s Rge. 25w Co. Norton State KS

Interval Tested 3572-3595 Zone Tested LKC "E-F"
 Anchor Length 23 Drill Pipe Run 3451 Mud Wt. 9.1
 Top Packer Depth 3567 Drill Collars Run 120 Vis 52
 Bottom Packer Depth 3572 Wt. Pipe Run - WL 6.8
 Total Depth 3595 Chlorides 900 ppm System LCM 1
 Blow Description IF: Blow built to 1/4", intermittent blow at 1/4" through open
ISI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>			<u>100</u>	

Rec Total 1 BHT 89 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1727 Test 1050 T-On Location 12:10
 (B) First Initial Flow 19 Jars 250 T-Started 12:49
 (C) First Final Flow 19 Safety Joint 75 T-Open 14:36
 (D) Initial Shut-In 23 Circ Sub _____ T-Pulled 15:35
 (E) Second Initial Flow - Hourly Standby _____ T-Out 17:25
 (F) Second Final Flow - Mileage 42 RT 31.50 Comments _____
 (G) Final Shut-In - Sampler _____
 (H) Final Hydrostatic 1693 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1406.50

Ruined Shale Packer _____
 Ruined Packer 320
 Extra Copies _____
 Sub Total 320
 Total 1726.50
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow -
 Final Shut-In -

Approved By Richard Bell Our Representative James Winder

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. **63126**

Well Name & No. Stapp Ward Unit #1-32 Test No. 4 Date 5-21-17
 Company Baird Oil Co. LLC Elevation 2555 KB 2547 GL
 Address PO Box 428 Logan KS 67646-0428
 Co. Rep / Geo. Richard Bell Rig WW#12
 Location: Sec. 32 Twp. 2s Rge. 25w Co. Norton State KS

Interval Tested 3640 - 3670 Zone Tested LKC "I"
 Anchor Length 30 Drill Pipe Run 3514 Mud Wt. 9.1
 Top Packer Depth 3635 Drill Collars Run 120 Vis 52
 Bottom Packer Depth 3640 Wt. Pipe Run - WL 6.8
 Total Depth 3670 Chlorides 900 ppm System LCM 1
 Blow Description IF: 1/4" Blow at open, slowly died back, dead at 18 min.
ISI: No blow
Pulled Tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud w/trace oil</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

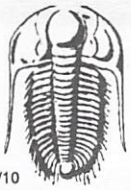
Rec Total 2 BHT 93 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1757 Test 1050 T-On Location 7:35 3:35
 (B) First Initial Flow 18 Jars 250 T-Started 4:19
 (C) First Final Flow 18 Safety Joint 75 T-Open 6:13
 (D) Initial Shut-In 44 Circ Sub _____ T-Pulled 7:17
 (E) Second Initial Flow - Hourly Standby _____ T-Out 8:45
 (F) Second Final Flow - Mileage 42 RT 31.50 Comments _____
 (G) Final Shut-In - Sampler _____
 (H) Final Hydrostatic 1752 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow - Extra Recorder _____
 Final Shut-In - Day Standby _____
 Accessibility _____
 Sub Total 1406.50 Sub Total 1406.50 MP/DST Disc't _____

Approved By Richard Bell

Our Representative James Winder

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. **63127**

4/10

Well Name & No. Stapp-Ward Unit #1-32 Test No. 5 Date 5-21-17
 Company Baird Oil Co. LLC Elevation 2555 KB 2547 GL
 Address PO Box 428 Logan KS 67646-0428
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 32 Twp. 2s Rge. 25w Co. Norton State KS

Interval Tested 3670 - 3692 Zone Tested LKC "J"
 Anchor Length 22 Drill Pipe Run 3546 Mud Wt. 9.1
 Top Packer Depth 3665 Drill Collars Run 120 Vis 48
 Bottom Packer Depth ~~3665~~ 3670 Wt. Pipe Run - WL 6.8
 Total Depth 3692 Chlorides 1000 ppm System LCM 1

Blow Description IF: Blow built to 2 1/2"
ISI: No blowback
FF: Blow started at 5min, built to 1"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>MCW w/oil spots</u>	<u>1</u>	<u>66</u>	<u>33</u>	
<u>60</u>	<u>SMCW w/trace oil</u>	<u>trace</u>	<u>94</u>	<u>6</u>	

Rec Total 90 BHT 100 Gravity API RW .332 @ 68 °F Chlorides 21,000 ppm

(A) Initial Hydrostatic 1771 Test 1050 T-On Location 14:55
 (B) First Initial Flow 18 Jars 250 T-Started 15:40
 (C) First Final Flow 42 Safety Joint 75 T-Open 17:11
 (D) Initial Shut-In 1114 Circ Sub _____ T-Pulled 20:14
 (E) Second Initial Flow 49 Hourly Standby _____ T-Out 21:45
 (F) Second Final Flow 65 Mileage 42 RT x 2 63
 (G) Final Shut-In 1054 Sampler _____
 (H) Final Hydrostatic 1740 Straddle _____

Initial Open 45 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder _____ Extra Copies _____
 Final Shut-In 45 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1438
 Sub Total 1438 MP/DST Disc't _____

Approved By Richard Bell Our Representative James Nisler

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