



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.09.30 @ 07:28:00

End Date: 2014.09.30 @ 14:42:30

Job Ticket #: 59360 DST #: 1

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

Printed: 2014.10.07 @ 15:11:35



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Baird Oil Co Inc

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Smith Family Trust #1-18

18-7s-21w Graham, KS

Job Ticket: 59360

DST#: 1

Test Start: 2014.09.30 @ 07:28:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:54:00

Time Test Ended: 14:42:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3423.00 ft (KB) To 3444.00 ft (KB) (TVD)

Reference Elevations: 2170.00 ft (KB)

Total Depth: 3444.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8940 Outside

Press@RunDepth: 144.32 psig @ 3426.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.30

End Date:

2014.09.30

Last Calib.: 2014.09.30

Start Time: 07:28:05

End Time:

14:42:29

Time On Btm: 2014.09.30 @ 10:53:45

Time Off Btm: 2014.09.30 @ 12:53:30

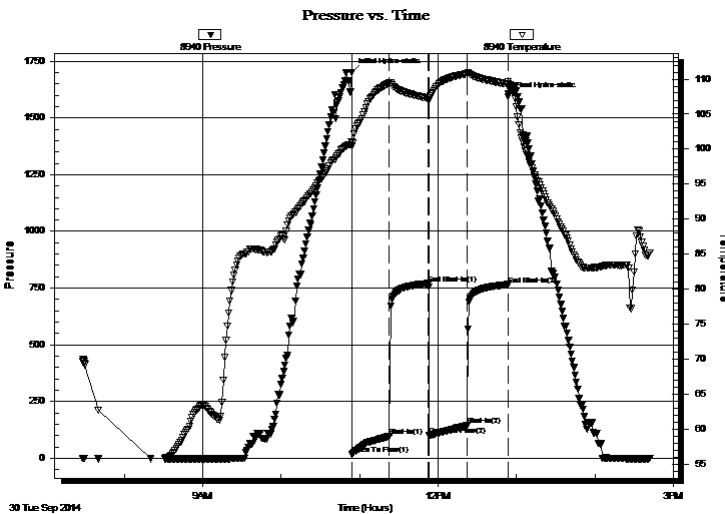
TEST COMMENT: 30 - IF- B.O.B. in 21 minutes

30 - IS- No blow

30 - FF- 7 1/2" blow

30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.29	101.04	Initial Hydro-static
1	15.92	100.42	Open To Flow (1)
29	97.76	109.45	Shut-In(1)
59	770.42	107.28	End Shut-In(1)
60	100.26	106.96	Open To Flow (2)
89	144.32	110.77	Shut-In(2)
120	765.42	109.29	End Shut-In(2)
120	1594.31	109.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	WM, 40%W, 60%M	0.30
186.00	MW, 10%M, 90%W	2.08
40.00	WM - Oil spots, 20%W, 80%M	0.56
2.00	Free Oil, 100%O	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 59360

DST#: 1

ATTN: Richard Bell

Test Start: 2014.09.30 @ 07:28:00

Tool Information

Drill Pipe:	Length: 3286.00 ft	Diameter: 3.80 inches	Volume: 46.09 bbl	Tool Weight: 2000.00 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: 52000.00 lb
			<u>Total Volume: 46.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3423.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	42.00 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			3403.00	
Shut In Tool	5.00			3408.00	
Hydraulic tool	5.00			3413.00	
Packer	5.00			3418.00	21.00 Bottom Of Top Packer
Packer	5.00			3423.00	
Stubb	1.00			3424.00	
Perforations	2.00			3426.00	
Recorder	0.00	8648	Inside	3426.00	
Recorder	0.00	8940	Outside	3426.00	
Perforations	15.00			3441.00	
Bullnose	3.00			3444.00	21.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59360

DST#: 1

ATTN: Richard Bell

Test Start: 2014.09.30 @ 07:28:00

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:

90000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	WM, 40%W, 60%M	0.305
186.00	MW, 10%M, 90%W	2.081
40.00	WM - Oil spots, 20%W, 80%M	0.561
2.00	Free Oil, 100%O	0.028

Total Length: 290.00 ft Total Volume: 2.975 bbl

Num Fluid Samples: 0

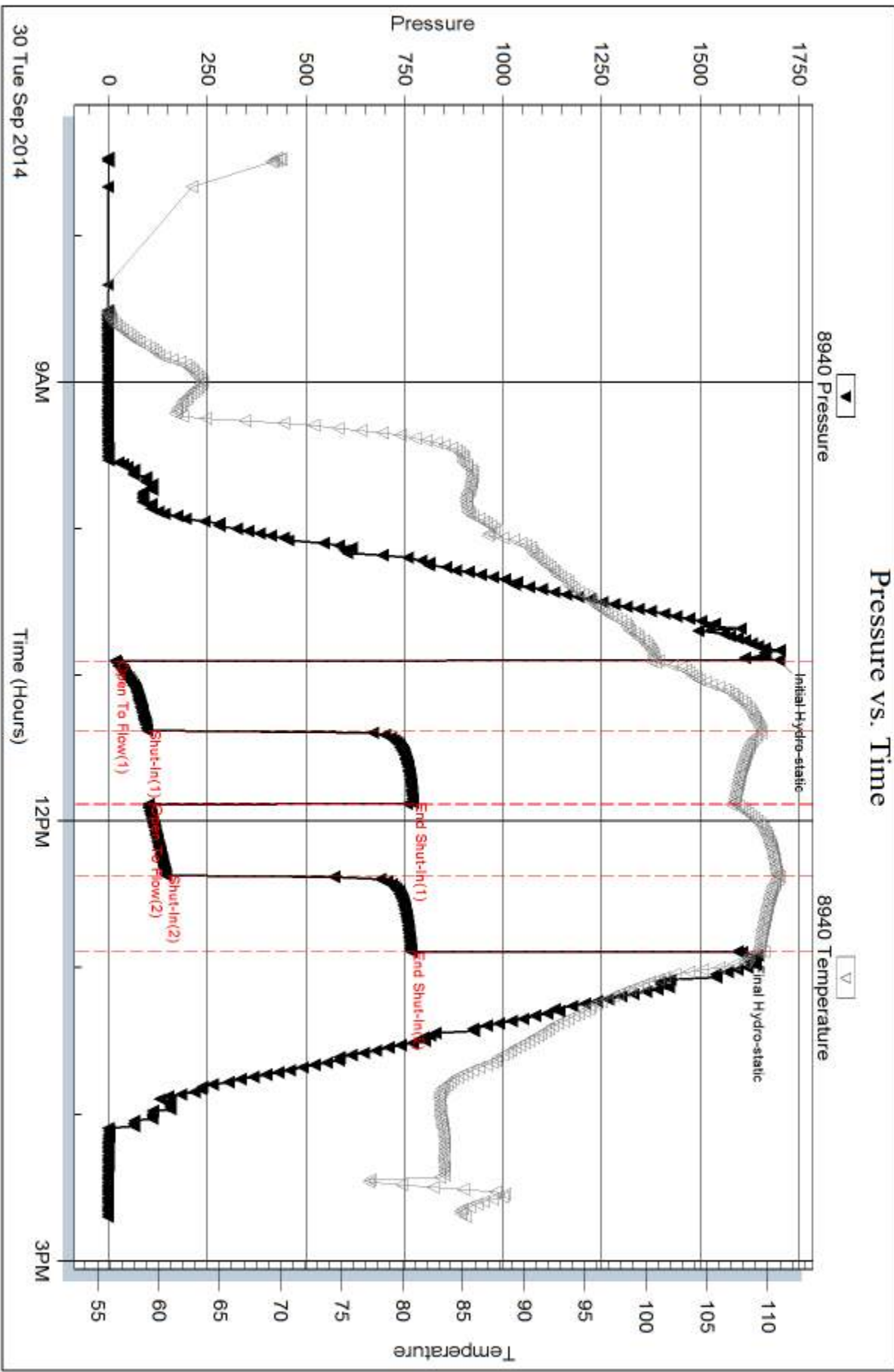
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Salinity: .07 @ 85 Degrees = 90000





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.09.30 @ 19:58:00

End Date: 2014.10.01 @ 02:46:00

Job Ticket #: 59361 DST #: 2

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

Printed: 2014.10.07 @ 15:10:58



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Baird Oil Co Inc

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Smith Family Trust #1-18

18-7s-21w Graham, KS

Job Ticket: 59361

DST#: 2

Test Start: 2014.09.30 @ 19:58:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:50:45

Time Test Ended: 02:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3444.00 ft (KB) To 3460.00 ft (KB) (TVD)

Reference Elevations: 2170.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 296.56 psig @ 3447.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.30

End Date:

2014.10.01

Last Calib.: 2014.10.01

Start Time: 19:58:05

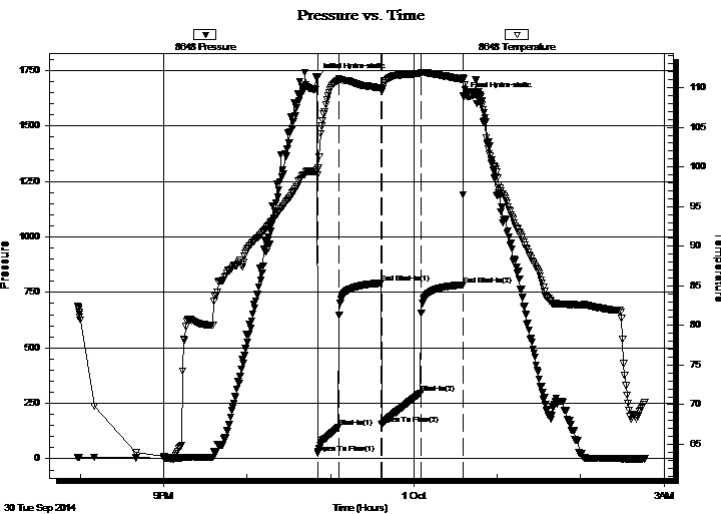
End Time:

02:45:59

Time On Btm: 2014.09.30 @ 22:50:30

Time Off Btm: 2014.10.01 @ 00:35:45

TEST COMMENT: 15 - IF- B.O.B. in 6 minutes
30 - IS- No return
30 - FF- B.O.B. in 8 minutes
30 - FS- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.95	99.66	Initial Hydro-static
1	23.79	98.99	Open To Flow (1)
16	141.99	110.92	Shut-In(1)
46	791.70	109.94	End Shut-In(1)
47	154.60	109.59	Open To Flow (2)
75	296.56	111.79	Shut-In(2)
105	784.98	111.05	End Shut-In(2)
106	1634.73	111.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
362.00	MW, 5%M, 95%W	3.98
124.00	MW, 30%M, 70%W	1.74
93.00	WM - Oil spots, 40%W, 60%M	1.30
5.00	Free Oil - Thick oil, 100%O	0.07

* 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 Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 59361

DST#: 2

ATTN: Richard Bell

Test Start: 2014.09.30 @ 19:58:00

Tool Information

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.80 inches	Volume: 46.53 bbl	Tool Weight: 2000.00 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: 55000.00 lb
			<u>Total Volume: 47.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3444.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3424.00	
Shut In Tool	5.00			3429.00	
Hydraulic tool	5.00			3434.00	
Packer	5.00			3439.00	21.00 Bottom Of Top Packer
Packer	5.00			3444.00	
Stubb	1.00			3445.00	
Perforations	2.00			3447.00	
Recorder	0.00	8648	Inside	3447.00	
Recorder	0.00	8940	Outside	3447.00	
Perforations	10.00			3457.00	
Bullnose	3.00			3460.00	16.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59361

DST#: 2

ATTN: Richard Bell

Test Start: 2014.09.30 @ 19:58:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

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 bbbl
362.00	MW, 5%M, 95%W	3.985
124.00	MW, 30%M, 70%W	1.739
93.00	WM - Oil spots, 40%W, 60%M	1.305
5.00	Free Oil - Thick oil, 100%O	0.070

Total Length: 584.00 ft

Total Volume: 7.099 bbl

Num Fluid Samples: 0

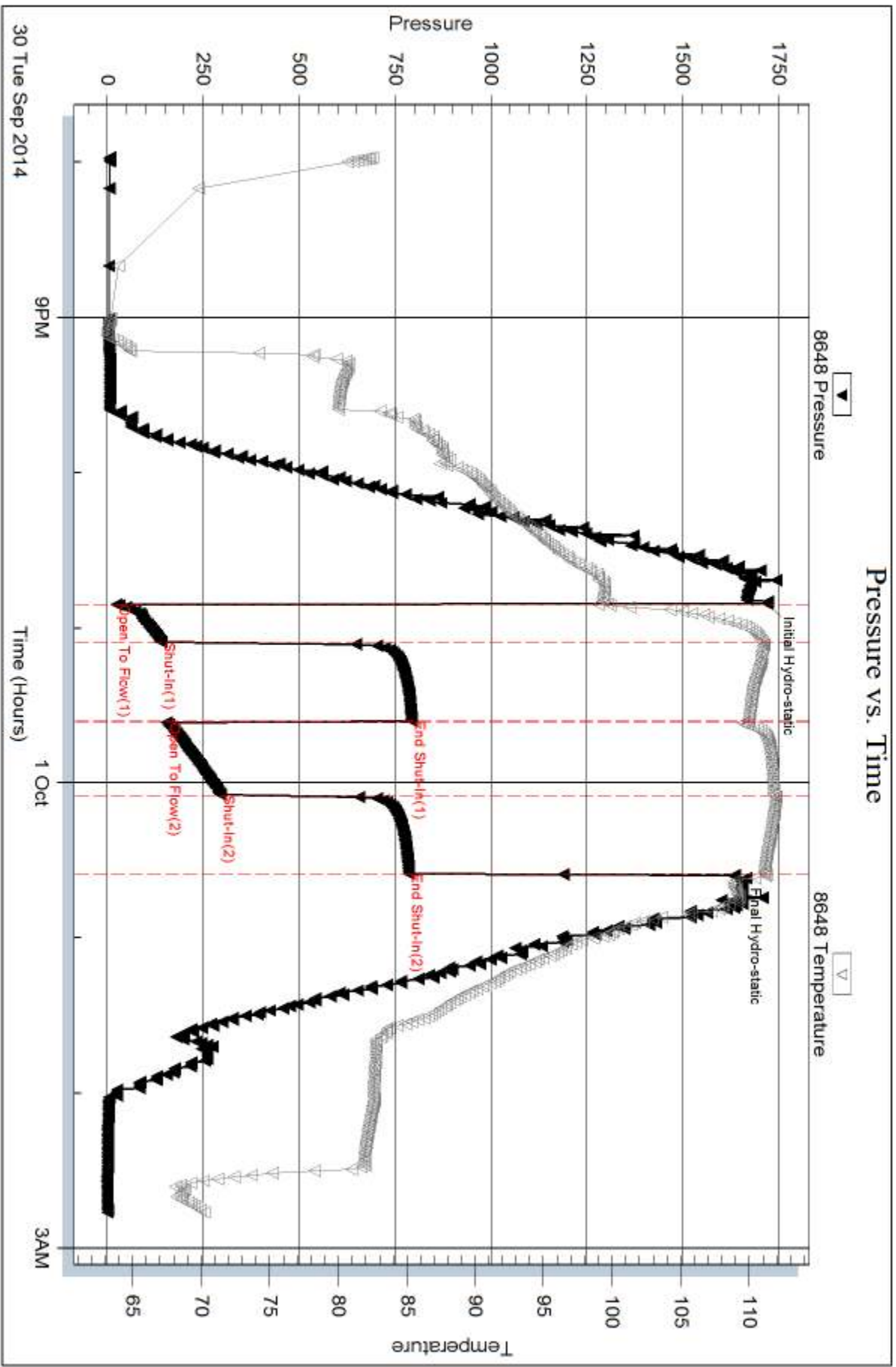
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

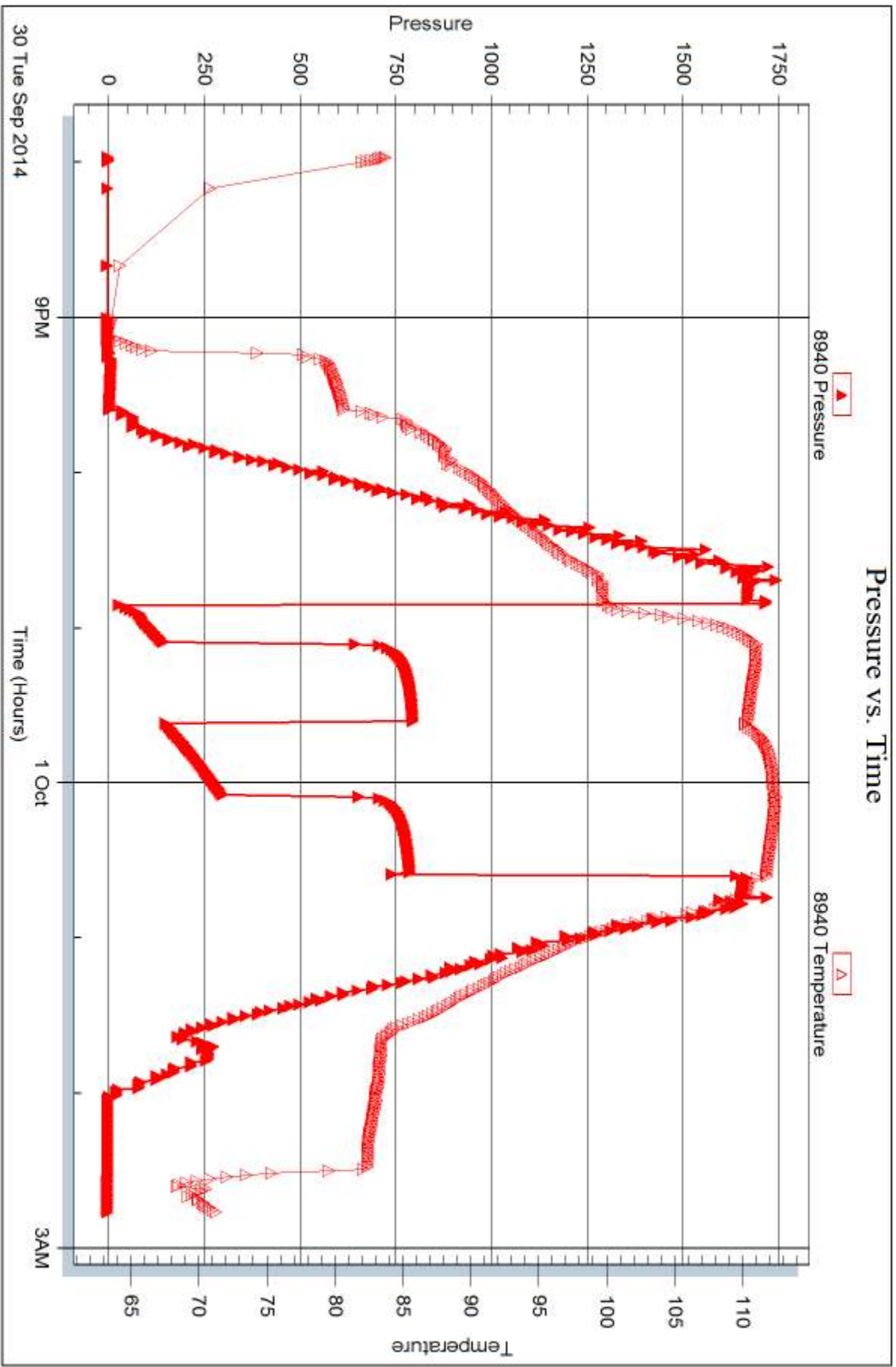


Serial #: 8940

Outside Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.10.01 @ 08:58:00

End Date: 2014.10.01 @ 15:26:00

Job Ticket #: 59362 DST #: 3

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

Printed: 2014.10.07 @ 15:10:35

Baird Oil Co Inc
Smith FamilyTrust #1-18
18-7s-21w Graham,KS
DST # 3
LKC "F"
2014.10.01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Baird Oil Co Inc

PO Box 428
Logan KS 67646

ATTN: Richard Bell

Smith Family Trust #1-18

18-7s-21w Graham, KS

Job Ticket: 59362

DST#: 3

Test Start: 2014.10.01 @ 08:58:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:11:15

Time Test Ended: 15:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3472.00 ft (KB) To 3484.00 ft (KB) (TVD)

Reference Elevations: 2170.00 ft (KB)

Total Depth: 3484.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 415.54 psig @ 3476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.01

End Date:

2014.10.01

Last Calib.:

2014.10.01

Start Time: 08:58:05

End Time:

15:25:59

Time On Btm:

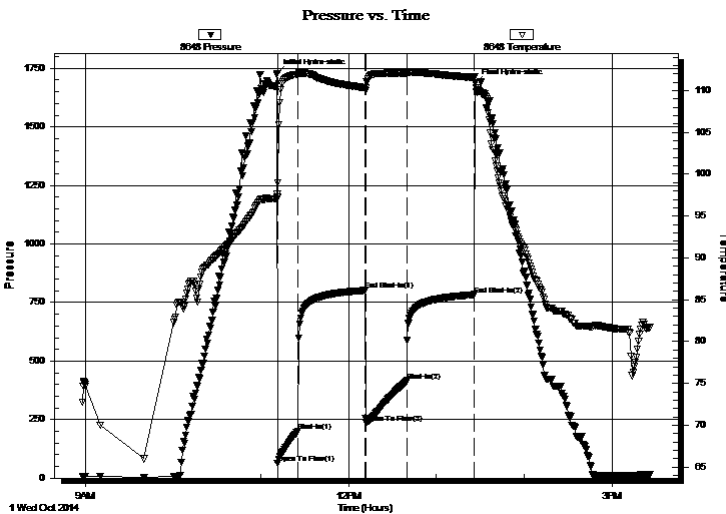
2014.10.01 @ 11:11:00

Time Off Btm:

2014.10.01 @ 13:26:30

TEST COMMENT: 15 - IF- B.O.B. in 3 minutes
45 - IS- Surface return, died in 28 minutes
30 - FF- B.O.B. in 4 minutes
45 - FS- Surface return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.90	97.65	Initial Hydro-static
1	62.87	97.23	Open To Flow (1)
14	200.84	111.94	Shut-In(1)
61	801.65	110.36	End Shut-In(1)
61	236.09	110.30	Open To Flow (2)
89	415.54	112.09	Shut-In(2)
135	783.69	111.55	End Shut-In(2)
136	1686.55	111.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
804.00	MW, 30%M, 70%W	10.18
2.00	Free Oil, 100%O	0.03

* 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 Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 59362

DST#: 3

ATTN: Richard Bell

Test Start: 2014.10.01 @ 08:58:00

Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 bbl	Tool Weight:	2000.00 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:	56000.00 lb
			<u>Total Volume: 47.55 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3472.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	33.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3452.00	
Shut In Tool	5.00			3457.00	
Hydraulic tool	5.00			3462.00	
Packer	5.00			3467.00	21.00 Bottom Of Top Packer
Packer	5.00			3472.00	
Stubb	1.00			3473.00	
Perforations	3.00			3476.00	
Recorder	0.00	8648	Inside	3476.00	
Recorder	0.00	8940	Outside	3476.00	
Perforations	5.00			3481.00	
Bullnose	3.00			3484.00	12.00 Bottom Packers & Anchor

Total Tool Length: 33.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59362

DST#: 3

ATTN: Richard Bell

Test Start: 2014.10.01 @ 08:58:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

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
804.00	MW, 30%M, 70%W	10.185
2.00	Free Oil, 100%O	0.028

Total Length: 806.00 ft Total Volume: 10.213 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8648

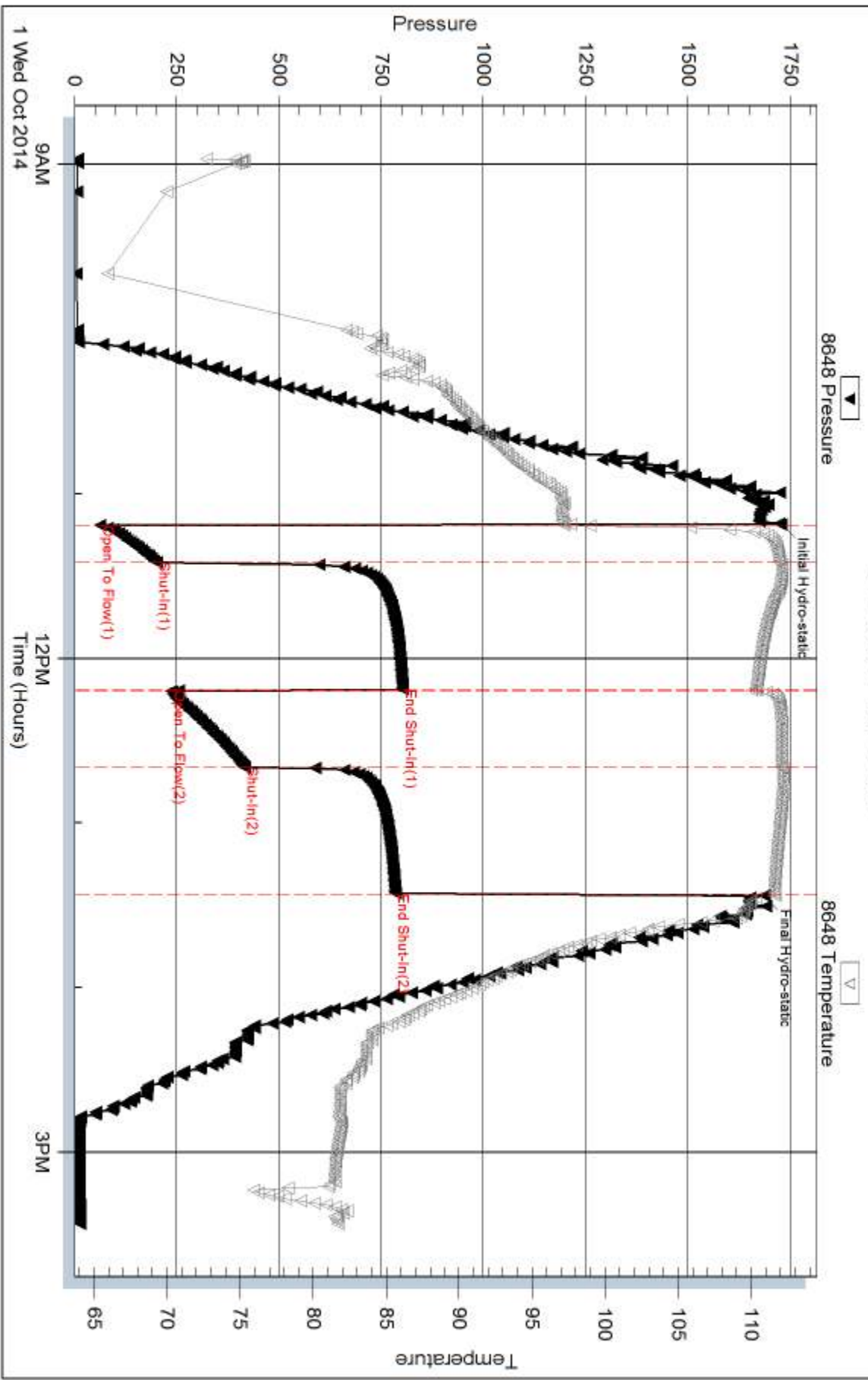
Inside

Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 59362

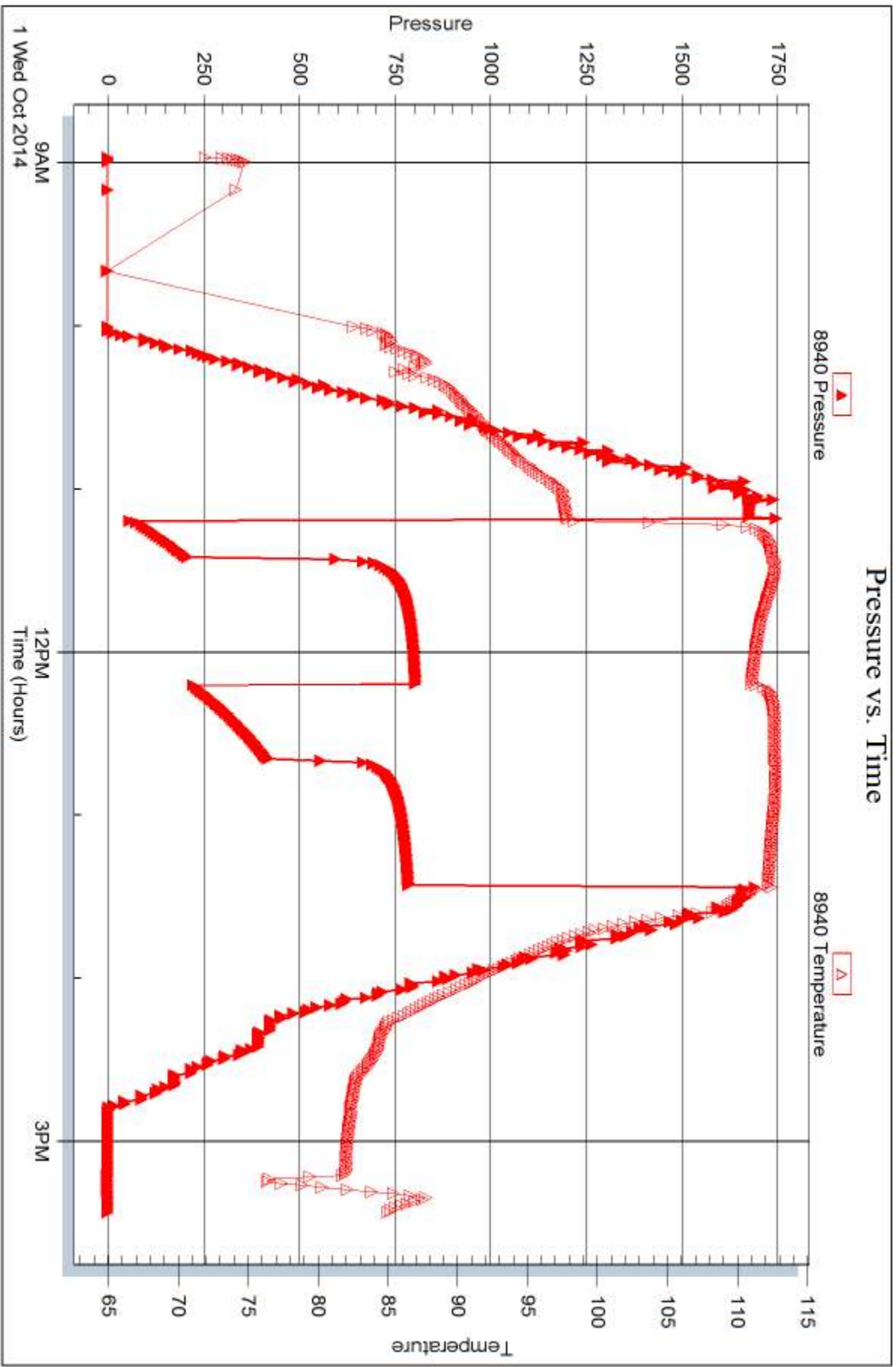
Printed: 2014, 10, 07 @ 15:10:36

Serial #: 8940

Outside Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 59362

Printed: 2014, 10, 07 @ 15:10:36



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.10.02 @ 11:27:00

End Date: 2014.10.02 @ 16:18:00

Job Ticket #: 59363 DST #: 4

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

Printed: 2014.10.07 @ 15:10:14



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

ATTN: Richard Bell

Job Ticket: 59363

DST#: 4

Test Start: 2014.10.02 @ 11:27:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:22:45

Time Test Ended: 16:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3635.00 ft (KB) To 3670.00 ft (KB) (TVD)

Reference Elevations: 2170.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 21.34 psig @ 3639.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.02

End Date:

2014.10.02

Last Calib.: 2014.10.02

Start Time: 11:27:05

End Time:

16:17:59

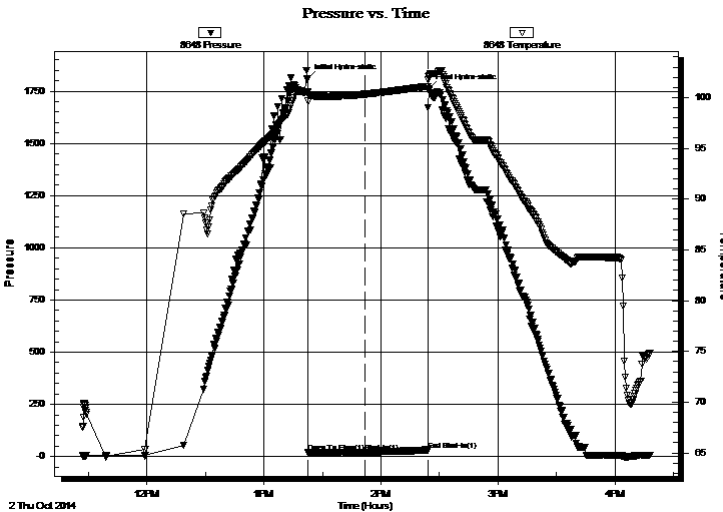
Time On Btm: 2014.10.02 @ 13:22:30

Time Off Btm: 2014.10.02 @ 14:24:30

TEST COMMENT: 30 - IF- 1/8" Blow
30 - IS- No return

*****PULLED TOOL*****

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1809.60	100.54	Initial Hydro-static
1	21.52	99.63	Open To Flow (1)
30	21.34	100.33	Shut-In(1)
62	31.34	101.10	End Shut-In(1)
62	1764.33	102.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	VSOCM, 5%O, 95%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 Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 59363

DST#: 4

ATTN: Richard Bell

Test Start: 2014.10.02 @ 11:27:00

Tool Information

Drill Pipe:	Length: 3506.00 ft	Diameter: 3.80 inches	Volume: 49.18 bbl	Tool Weight: 2000.00 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: 54000.00 lb
			<u>Total Volume: 49.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3635.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3615.00	
Shut In Tool	5.00			3620.00	
Hydraulic tool	5.00			3625.00	
Packer	5.00			3630.00	21.00 Bottom Of Top Packer
Packer	5.00			3635.00	
Stubb	1.00			3636.00	
Perforations	3.00			3639.00	
Recorder	0.00	8648	Inside	3639.00	
Recorder	0.00	8940	Outside	3639.00	
Perforations	28.00			3667.00	
Bullnose	3.00			3670.00	35.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59363

DST#: 4

ATTN: Richard Bell

Test Start: 2014.10.02 @ 11:27:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	VSOCM, 5%O, 95%M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Thick oil

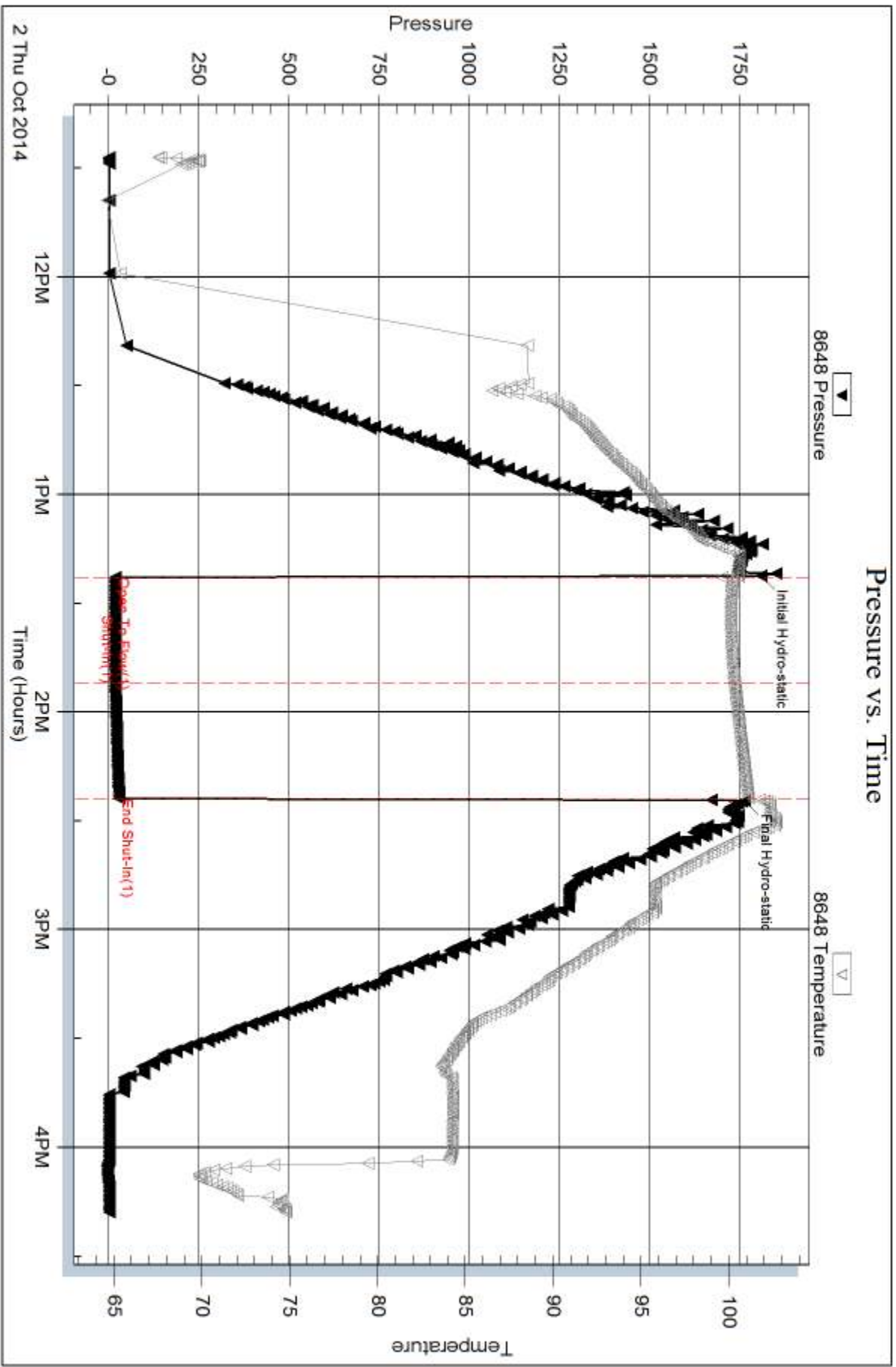
Serial #: 8648

Inside

Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 4

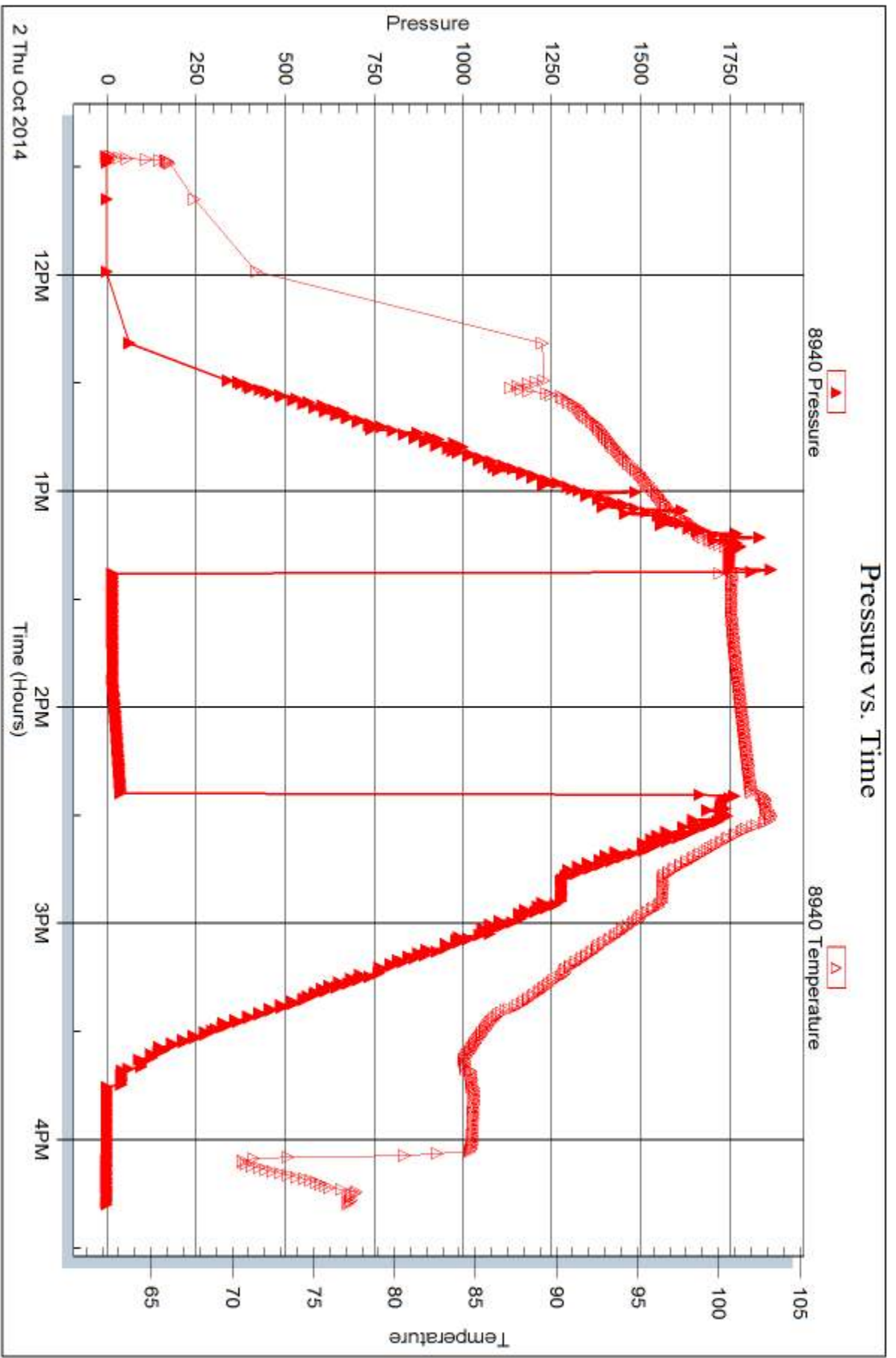


Serial #: 8940

Outside Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 59363

Printed: 2014, 10, 07 @ 15:10:15



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.10.03 @ 00:19:00

End Date: 2014.10.03 @ 06:14:15

Job Ticket #: 59364 DST #: 5

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

Printed: 2014.10.07 @ 15:09:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 59364

DST#: 5

ATTN: Richard Bell

Test Start: 2014.10.03 @ 00:19:00

Tool Information

Drill Pipe:	Length: 3506.00 ft	Diameter: 3.80 inches	Volume: 49.18 bbl	Tool Weight: 2000.00 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: 58000.00 lb
			<u>Total Volume: 49.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3634.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3614.00	
Shut In Tool	5.00			3619.00	
Hydraulic tool	5.00			3624.00	
Packer	5.00			3629.00	21.00 Bottom Of Top Packer
Packer	5.00			3634.00	
Stubb	1.00			3635.00	
Perforations	3.00			3638.00	
Change Over Sub	1.00			3639.00	
Drill Pipe	62.00			3701.00	
Change Over Sub	1.00			3702.00	
Recorder	0.00	8648	Inside	3702.00	
Recorder	0.00	8940	Outside	3702.00	
Perforations	17.00			3719.00	
Bullnose	3.00			3722.00	88.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 59364

DST#: 5

ATTN: Richard Bell

Test Start: 2014.10.03 @ 00:19:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
464.00	Mud, with oil specs	5.416

Total Length: 464.00 ft Total Volume: 5.416 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

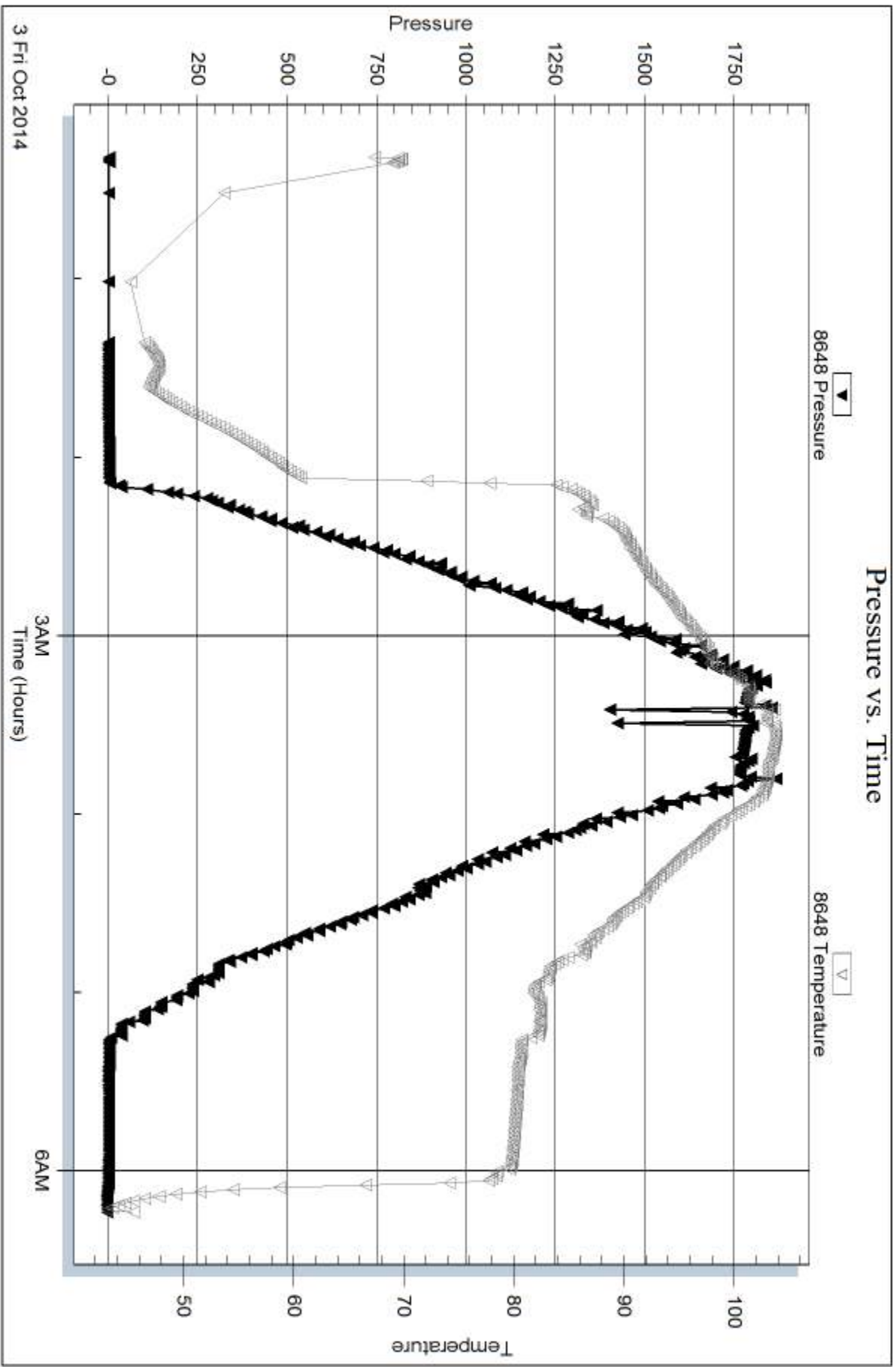
Serial #: 8648

Inside

Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 59364

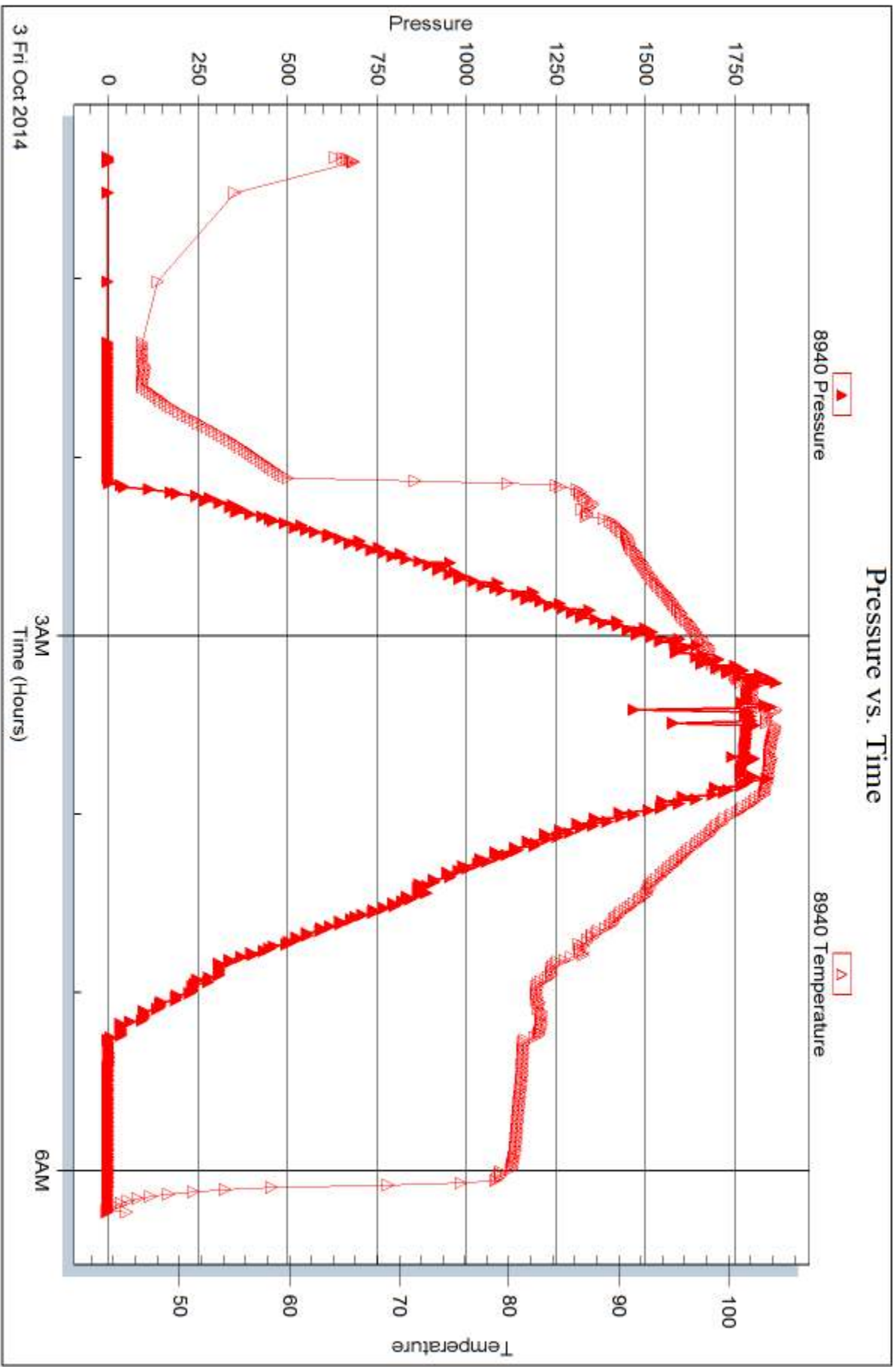
Printed: 2014, 10, 07 @ 15:09:53

Serial #: 8940

Outside Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 59364

Printed: 2014, 10, 07 @ 15:09:53



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Co Inc**

PO Box 428
Logan KS 67646

ATTN: Richard Bell

18-7s-21w Graham,KS

Smith FamilyTrust #1-18

Start Date: 2014.10.03 @ 20:57:00

End Date: 2014.10.04 @ 06:04:30

Job Ticket #: 60728 DST #: 6

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

Printed: 2014.10.07 @ 15:09:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Co Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

ATTN: Richard Bell

Job Ticket: 60728

DST#: 6

Test Start: 2014.10.03 @ 20:57:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:21:30

Time Test Ended: 06:04:30

Test Type: Conventional Straddle (Initial)

Tester: Brandon Quintana

Unit No: 48

Interval: 3657.00 ft (KB) To 3730.00 ft (KB) (TVD)

Reference Elevations: 2170.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

2162.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8647

Inside

Press@RunDepth: 200.38 psig @ 3658.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.03

End Date:

2014.10.04

Last Calib.:

2014.10.04

Start Time: 20:57:01

End Time:

06:04:30

Time On Btm:

2014.10.04 @ 00:17:00

Time Off Btm:

2014.10.04 @ 03:21:30

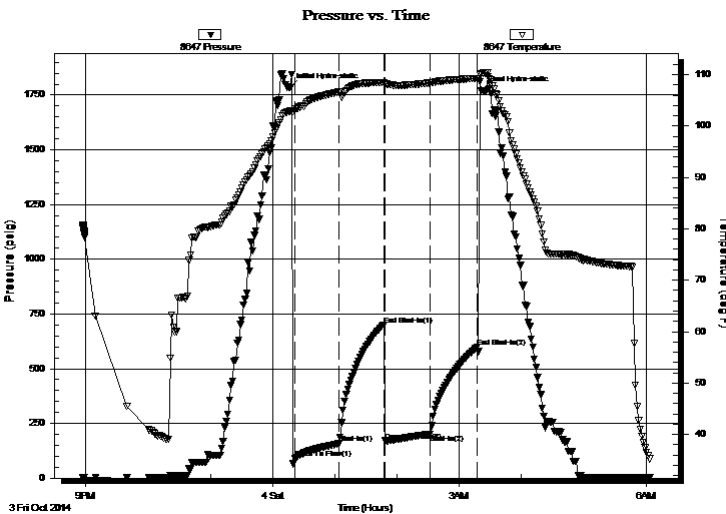
TEST COMMENT: 45 - IF - Opened w/ surface blow , built to B.o.B in 7 min.

45 - ISI - Return built to 4 1/2"

45 - FF - Blow built to B.o.B in 14 min.

45 - FSI - REturn built to 3"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.89	102.88	Initial Hydro-static
5	90.42	103.03	Open To Flow (1)
47	157.45	106.57	Shut-In(1)
90	700.63	108.41	End Shut-In(1)
92	170.85	108.28	Open To Flow (2)
135	200.38	108.40	Shut-In(2)
180	597.90	109.26	End Shut-In(2)
185	1769.24	110.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
204.00	OCM 70% m, 30% o	1.76
241.00	GO 80% o, 20% g	3.38

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Co Inc

Smith Family Trust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham, KS

Job Ticket: 60728

DST#: 6

ATTN: Richard Bell

Test Start: 2014.10.03 @ 20:57:00

Tool Information

Drill Pipe:	Length: 3537.00 ft	Diameter: 3.80 inches	Volume: 49.61 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.67 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.67 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3657.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	3766.00 ft			
Interval between Packers:	109.00 ft			
Tool Length:	137.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3630.00	
Shut In Tool	5.00			3635.00	
Hydraulic tool	5.00		Inside	3640.00	
Jars	5.00			3645.00	
Safety Joint	3.00			3648.00	
Packer	5.00			3653.00	28.00 Bottom Of Top Packer
Packer	4.00			3657.00	
Stubb	1.00			3658.00	
Recorder	0.00	8647	Inside	3658.00	
Recorder	0.00	8372	Outside	3658.00	
Perforations	5.00			3663.00	
Change Over Sub	1.00			3664.00	
Drill Pipe	63.00			3727.00	
Change Over Sub	1.00			3728.00	
Perforations	4.00			3732.00	
Blank Off Sub	1.00			3733.00	
Packer - Shale	5.00			3738.00	
Recorder	0.00	8321	Below	3738.00	
Perforations	25.00			3763.00	
Bullnose	3.00			3766.00	109.00 Bottom Packers & Anchor

Total Tool Length: 137.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Co Inc

Smith FamilyTrust #1-18

PO Box 428
Logan KS 67646

18-7s-21w Graham,KS

Job Ticket: 60728

DST#: 6

ATTN: Richard Bell

Test Start: 2014.10.03 @ 20:57:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
204.00	OCM 70% _m , 30% _o	1.762
241.00	GO 80% _o , 20% _g	3.381

Total Length: 445.00 ft Total Volume: 5.143 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 25 @ 55 Corrected = 24

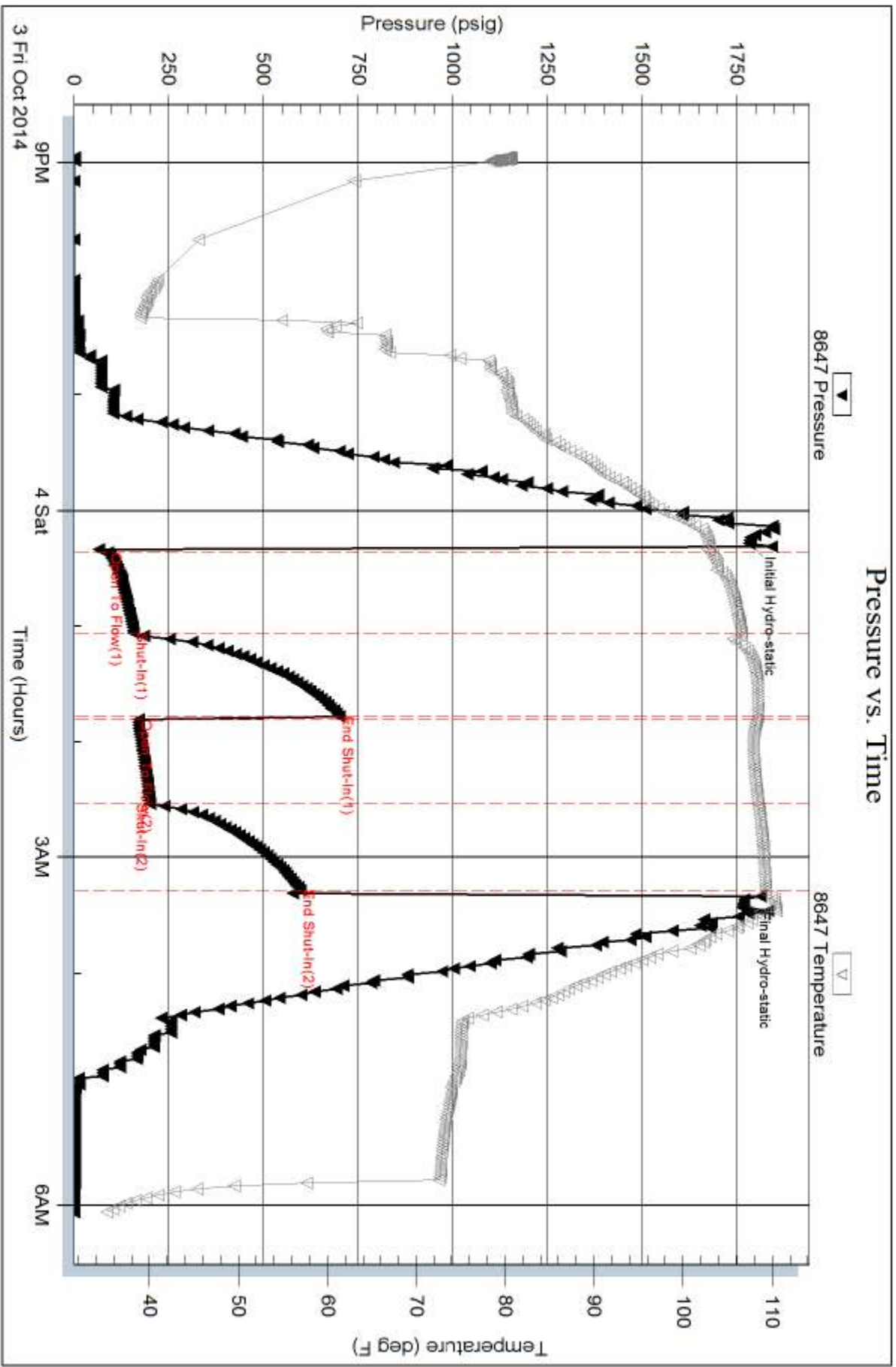
Serial #: 8647

Inside

Baird Oil Co Inc

18-7s-21w Graham,KS

DST Test Number: 6

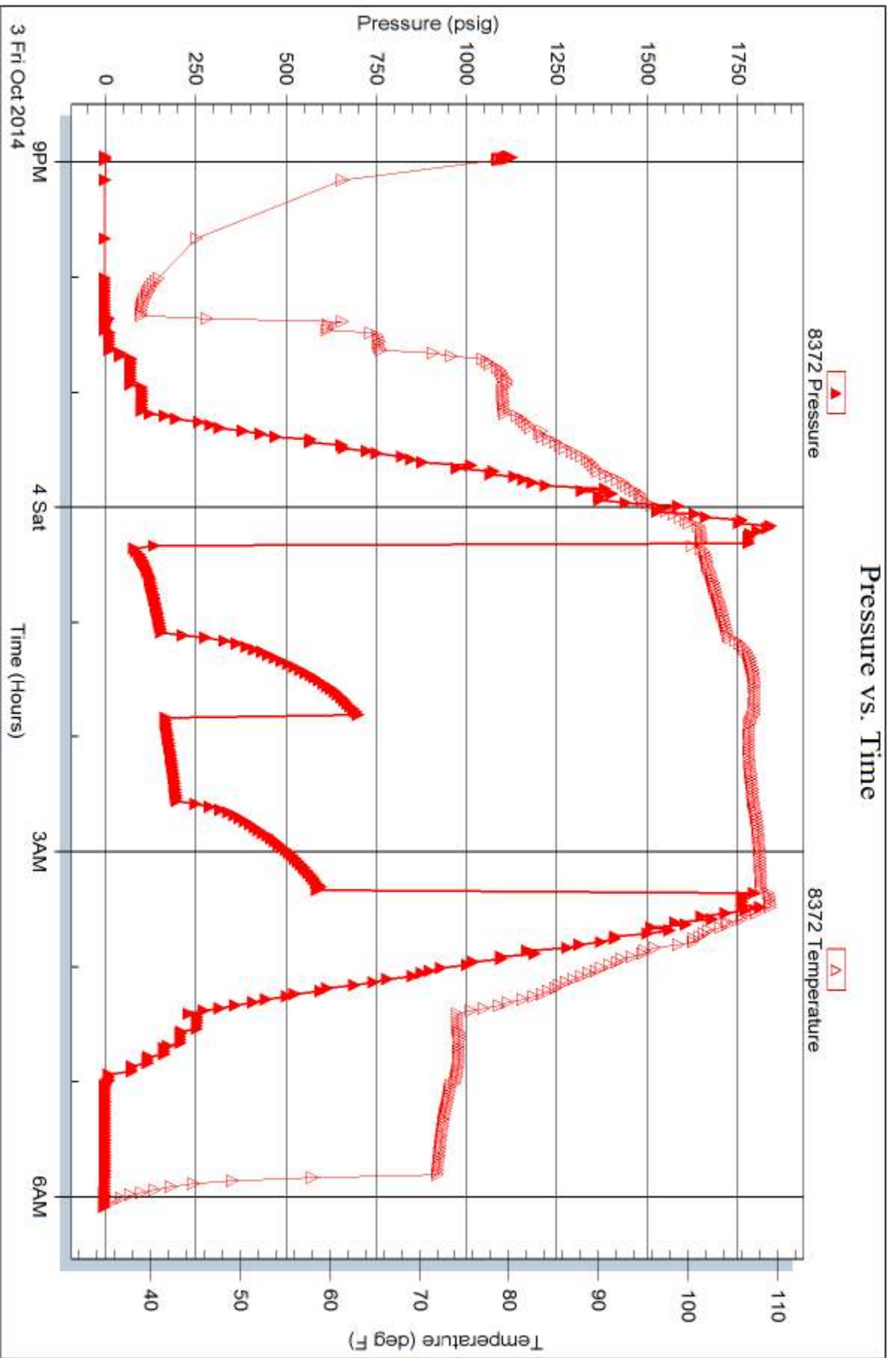


Serial #: 8372

Outside Baird Oil Co Inc

18-/s-21w Graham,KS

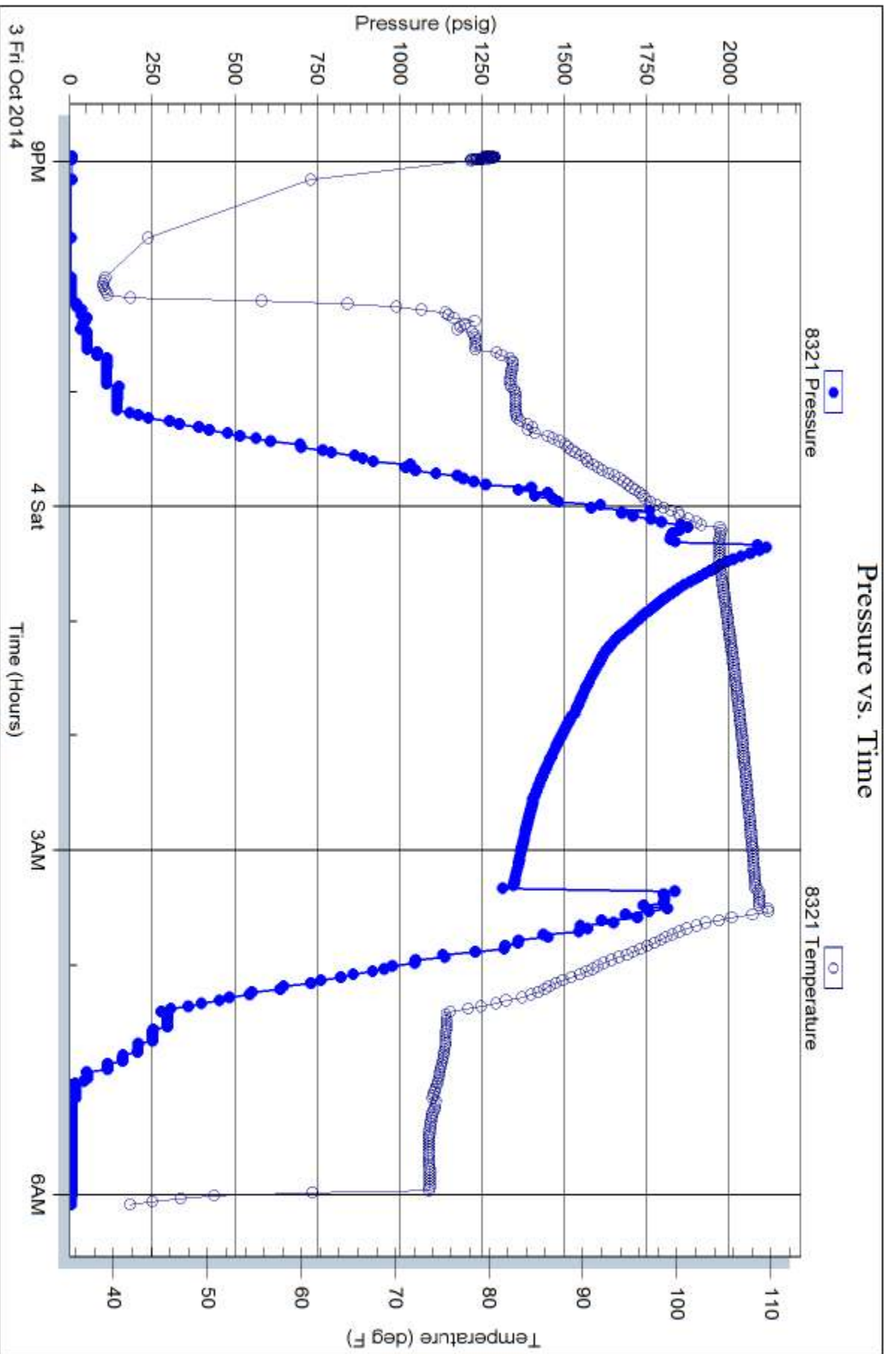
DST Test Number: 6

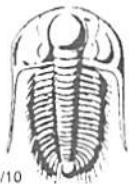


Trilobite Testing, Inc

Ref. No: 60728

Printed: 2014, 10.07 @ 15:09:14





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59360

Well Name & No. Smith Family Trust 1-18 Test No. 1 Date 9-30-14
 Company Baird Oil Company Inc Elevation 2170 KB 2162 GL
 Address Po Box 428, Logan KS, 67646
 Co. Rep / Geo. Richard Bell Rig WW12
 Location: Sec. 18 Twp. 7S Rge. 21W Co. Graham State KS

Interval Tested 3423-3444 Zone Tested LKC "C"
 Anchor Length 21' Drill Pipe Run 3286' Mud Wt. 8.6
 Top Packer Depth 3418 Drill Collars Run 120' Vis 59
 Bottom Packer Depth 3423 Wt. Pipe Run — WL 7.2
 Total Depth 3444 Chlorides 700 ppm System LCM

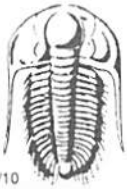
Blow Description IF-B.O.B. in 21 minutes
ISI - No return
FF - 7 1/2" blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>WM</u>		<u>40</u>	<u>60</u>	
<u>186</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>40</u>	<u>WM - oil spots</u>		<u>20</u>	<u>80</u>	
<u>2</u>	<u>Free oil</u>	<u>100</u>			

Rec Total 290' BHT 109° Gravity — API RW .07 @ 85° F Chlorides 90,000 ppm
 (A) Initial Hydrostatic 1699 Test 1150 T-On Location 0709
 (B) First Initial Flow 15 Jars _____ T-Started 0728
 (C) First Final Flow 97 Safety Joint _____ T-Open 10.55
 (D) Initial Shut-In 770 Circ Sub _____ T-Pulled 12.55
 (E) Second Initial Flow 100 Hourly Standby _____ T-Out 1444
 (F) Second Final Flow 144 Mileage 124RT 192.20 Comments _____
 (G) Final Shut-In 765 Sampler _____
 (H) Final Hydrostatic 1594 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1342.20
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1342.20

Approved By _____ Our Representative Cody Bell

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. 59361

Well Name & No. Smith Family Trust 1-18 Test No. 2 Date 9-30-14
 Company Baird Oil Company Inc Elevation 2170 KB 2162 GL
 Address Po Box 428, Logan KS, 67646
 Co. Rep / Geo. Richard Bell Rig WW12
 Location: Sec. 18 Twp. 7S Rge. 21W Co. Graham State ks

Interval Tested 3444-3460 Zone Tested LKC "D"
 Anchor Length 16 Drill Pipe Run 3317' Mud Wt. 9.2
 Top Packer Depth 3439 Drill Collars Run 120' Vis 56
 Bottom Packer Depth 3444 Wt. Pipe Run - WL 7.6
 Total Depth 3460 Chlorides 1,000 ppm System LCM 2#

Blow Description IF-B.O.B. in 6 minutes
ISI - No returns
FF-B.O.B. in 8 minutes
FST - No returns

Rec	Feet of	%gas	%oil	%water	%mud
362	MW		95	5	
124	MW		70	30	
93	WM - oil spots		40	60	
5	Free oil - Thick	100			

Rec Total 584' BHT 111° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1719 Test 1150 T-On Location 1949
 (B) First Initial Flow 23 Jars - T-Started 1958
 (C) First Final Flow 141 Safety Joint - T-Open 2253
 (D) Initial Shut-In 791 Circ Sub - T-Pulled 1238
 (E) Second Initial Flow 154 Hourly Standby - T-Out 0247
 (F) Second Final Flow 296 Mileage 124RT 192.20 Comments -
 (G) Final Shut-In 784 Sampler -
 (H) Final Hydrostatic 1634 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Initial Open 15 Extra Recorder - Sub Total 0
 Initial Shut-In 30 Day Standby - Total 1342.20
 Final Flow 30 Accessibility - MP/DST Disc't -
 Final Shut-In 30 Sub Total 1342.20

Approved By _____ Our Representative Cody Bell

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. **59362**

Well Name & No. Smith Family Trust 1-18 Test No. 3 Date 10-1-14
 Company Baird oil Company Inc Elevation 2170 KB 2162 GL
 Address Po Box 428, Logan KS, 67646
 Co. Rep / Geo. Richard Bell Rig WW12
 Location: Sec. 18 Twp. 7s Rge. 21w Co. Graham State KS

Interval Tested 3472-3484 Zone Tested LKC "F"
 Anchor Length 12' Drill Pipe Run 3348' Mud Wt. 9.2
 Top Packer Depth 3467 Drill Collars Run 120' Vis 56
 Bottom Packer Depth 3472 Wt. Pipe Run — WL 7.6
 Total Depth 3484 Chlorides 1,000 ppm System LCM 2 #

Blow Description IF - B.O.B. in 3 minutes
ISI - surface return, died in 28 minutes
FF - B.O.B. in 4 minutes
FSI -

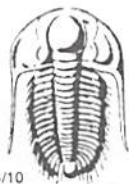
Rec	Feet of	%gas	%oil	%water	%mud
<u>804</u>	<u>MW</u>			<u>20</u>	<u>30</u>
<u>2</u>	<u>Free oil</u>		<u>100</u>		

Rec Total 806' BHT 1110 Gravity — API RW 1.85 @ 80 °F Chlorides 80,000 ppm

(A) Initial Hydrostatic <u>1728</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0846</u>
(B) First Initial Flow <u>62</u>	<input type="checkbox"/> Jars	T-Started <u>0858</u>
(C) First Final Flow <u>200</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1111</u>
(D) Initial Shut-In <u>801</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1326</u>
(E) Second Initial Flow <u>236</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1526</u>
(F) Second Final Flow <u>415</u>	<input checked="" type="checkbox"/> Mileage <u>124RT</u> 192.20	Comments
(G) Final Shut-In <u>783</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1686</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1342.20</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1342.20</u>	

Approved By _____ Our Representative Cody B. [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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59363

4/10

Well Name & No. Smith Family Trust 1-18 Test No. 4 Date 10-2-14
 Company Baird Oil Company Inc Elevation 2170 KB 2162 GL
 Address PO Box 428, Logan KS, 67646
 Co. Rep / Geo. Richard Bell Rig WW12
 Location: Sec. 18 Twp. 7s Rge. 21w Co. Graham State KS

Interval Tested 3635 - 3670 Zone Tested Marmaton
 Anchor Length 35' Drill Pipe Run 3506' Mud Wt. 9.0
 Top Packer Depth 3630 Drill Collars Run 120' Vis 55
 Bottom Packer Depth 3635 Wt. Pipe Run - WL 7.2
 Total Depth 3670 Chlorides 2,400 ppm System LCM 2#

Blow Description ±F - 1/8" blow
ISI - No return
FX -
FX - pulled tool

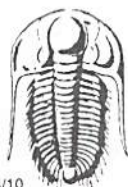
Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>VSOCM</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3' BHT 101° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1809 Test 1150 T-On Location 1113
 (B) First Initial Flow 21 Jars _____ T-Started 1127
 (C) First Final Flow 21 Safety Joint _____ T-Open 1322
 (D) Initial Shut-In 31 Circ Sub _____ T-Pulled 1422
 (E) Second Initial Flow - Hourly Standby _____ T-Out 1618
 (F) Second Final Flow - Mileage 124 RT 192.20 Comments _____
 (G) Final Shut-In - Sampler _____
 (H) Final Hydrostatic 1764 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1342.20
 Final Flow Pulled tool Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1342.20

Approved By _____ Our Representative Cody Bell

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. 59364

Well Name & No. Smith Family Trust 1-18 Test No. 5 Date 10-3-14
 Company Baird Oil Company Inc Elevation 2170 KB 2162 GL
 Address Po Box 428, Logan KS, 67646
 Co. Rep / Geo. Richard Bell Rig WW12
 Location: Sec. 18 Twp. 7S Rge. 21W Co. Graham State KS

Interval Tested 3634-3722 Zone Tested Arbuckle
 Anchor Length 88' Drill Pipe Run 3506' Mud Wt. 9.0
 Top Packer Depth 3629 Drill Collars Run 120' Vis 55
 Bottom Packer Depth 3634 Wt. Pipe Run - WL 7.2
 Total Depth 3722 Chlorides 2,400 ppm System LCM 2

Blow Description ~~FF~~ - Opened tool, Packer Failure
~~FF~~ - Pulled tool
~~FF~~

Rec	Feet of	%gas	%oil	%water	%mud
<u>464</u>	<u>Mud - oil specs</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 464 BHT - Gravity - API RW - @ - °F Chlorides - ppm

- (A) Initial Hydrostatic Test 950
- (B) First Initial Flow Jars
- (C) First Final Flow Safety Joint
- (D) Initial Shut-In Circ Sub
- (E) Second Initial Flow Hourly Standby
- (F) Second Final Flow Mileage 124RT 192.20
- (G) Final Shut-In Sampler
- (H) Final Hydrostatic Straddle

T-On Location 1204
 T-Started 1219
 T-Open 0324
 T-Pulled 0340
 T-Out 0614

Comments _____

Initial Open _____
 Initial Shut-In _____
 Final Flow _____
 Final Shut-In _____

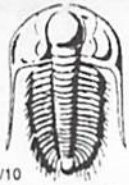
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 1142.20
- MP/DST Disc't _____

Approved By _____

Sub Total 1142.20

Our Representative Andy Bell

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. **60728**

Well Name & No. Smith Family Trust #1-18 Test No. #6 Date 10-3-14
 Company Baird Oil Co., Inc. Elevation 2170 KB 2162 GL
 Address P.O. Box 428 Logan, KS 67646
 Co. Rep / Geo. Richard Bell Rig WW #12
 Location: Sec. 18 Twp. 7S Rge. 21W Co. Graham State KS

Interval Tested 3657-3730 Zone Tested Arbuckle
 Anchor Length 73' Drill Pipe Run 3537 Mud Wt. 9
 Top Packer Depth 3652 Drill Collars Run 120.67 Vis 55
 Bottom Packer Depth 3657 Wt. Pipe Run — WL 7.2
 Total Depth 3760 Chlorides 2400 ppm System LCM 2

Blow Description IF- Opened w/ surface blow, built to B.o.B in 7 min.
ISI- Return built to 4 1/2"
FF- Blow built to B.o.B in 14 min.
FBI- Return built to 3"

Rec	Feet of	%gas	%oil	%water	%mud
<u>241</u>	<u>GO</u>	<u>20</u>	<u>80</u>		
<u>204</u>	<u>OCM</u>		<u>30</u>		<u>70</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 445 BHT 109 Gravity 24 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1782 Test 1150 T-On Location 7:45 PM
 (B) First Initial Flow 90 Jars 250 T-Started 8:57 PM
 (C) First Final Flow 157 Safety Joint 75 T-Open 12:21 AM
 (D) Initial Shut-In 700 Circ Sub — T-Pulled 3:21 AM
 (E) Second Initial Flow 170 Hourly Standby — T-Out 6:08 AM
 (F) Second Final Flow 200 Mileage 173 R.T. 192.20 Comments —
 (G) Final Shut-In 597 Sampler —
 (H) Final Hydrostatic 1769 Straddle 600
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Sub Total 2267.20

Sub Total 2267.20 Total 2267.20 MP/DST Disc't —

Approved By — Our Representative Baird Oil

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.