



DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Quinn #4-2

2-7s-22w Graham,KS

Start Date: 2012.10.23 @ 23:06:48

End Date: 2012.10.24 @ 04:04:03

Job Ticket #: 48711 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.01 @ 13:37:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48711

DST#: 1

ATTN: Richard Bell

Test Start: 2012.10.23 @ 23:06:48

GENERAL INFORMATION:

Formation: **A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:29:18
 Time Test Ended: 04:04:03
 Interval: **3484.00 ft (KB) To 3504.00 ft (KB) (TVD)**
 Total Depth: 3504.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2257.00 ft (KB)
 2252.00 ft (CF)
 KB to GR/CF: 5.00 ft

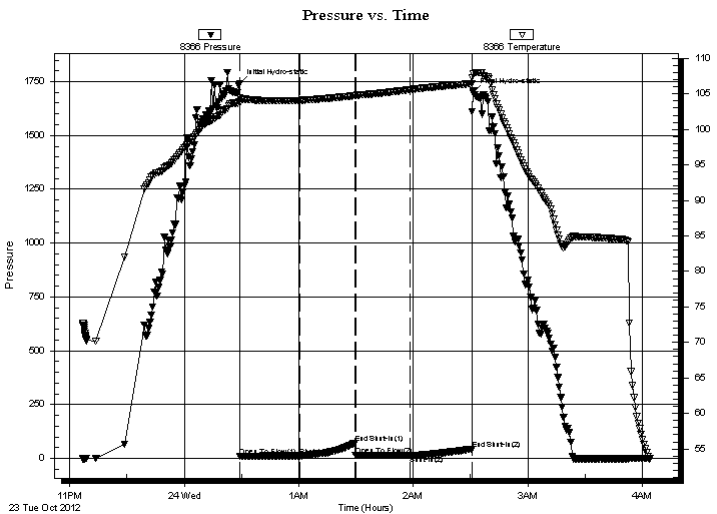
Serial #: 8366

Inside

Press @ RunDepth: 14.40 psig @ 3486.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.23 End Date: 2012.10.24 Last Calib.: 2012.10.24
 Start Time: 23:06:50 End Time: 04:04:03 Time On Btm: 2012.10.24 @ 00:29:03
 Time Off Btm: 2012.10.24 @ 02:31:18

TEST COMMENT: IFP-Weak Surface Blow , Died in 12 Min.
 ISI-Dead
 FFp-Dead
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1740.03	104.47	Initial Hydro-static
1	9.66	103.83	Open To Flow (1)
32	12.70	104.11	Shut-In(1)
61	71.47	104.75	End Shut-In(1)
61	13.63	104.74	Open To Flow (2)
89	14.40	105.60	Shut-In(2)
122	44.41	106.47	End Shut-In(2)
123	1697.70	107.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM-10%O-90%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48711

DST#: 1

ATTN: Richard Bell

Test Start: 2012.10.23 @ 23:06:48

Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.80 inches	Volume: 47.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3484.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 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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Change Over Sub	1.00			3464.00	
Shut In Tool	5.00			3469.00	
Hydraulic tool	5.00			3474.00	
Packer	5.00			3479.00	21.00 Bottom Of Top Packer
Packer	5.00			3484.00	
Stubb	1.00			3485.00	
Perforations	1.00			3486.00	
Recorder	0.00	8366	Inside	3486.00	
Recorder	0.00	8289	Outside	3486.00	
Perforations	15.00			3501.00	
Bullnose	3.00			3504.00	20.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48711

DST#: 1

ATTN: Richard Bell

Test Start: 2012.10.23 @ 23:06:48

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: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM-10%O-90%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

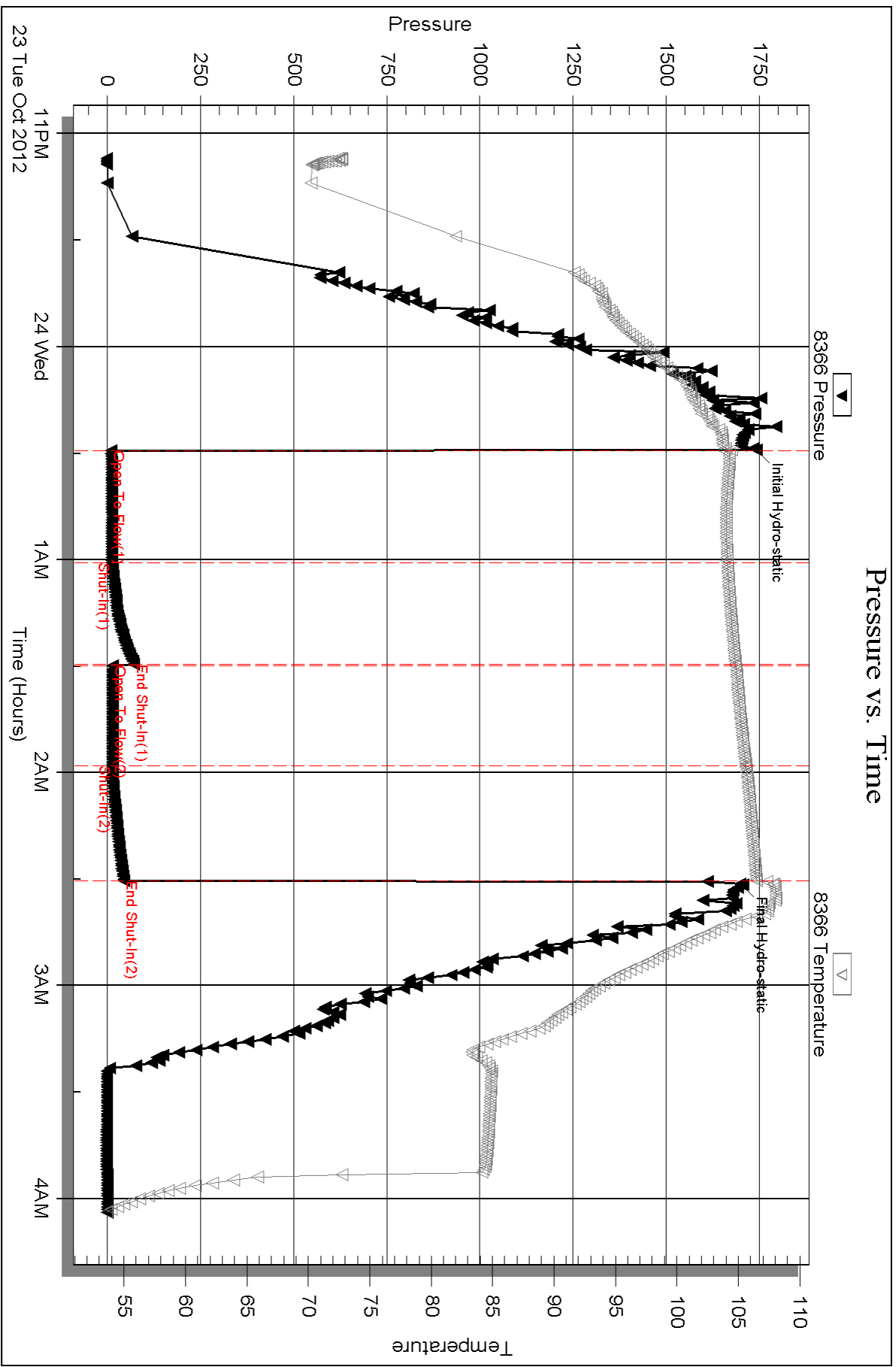
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

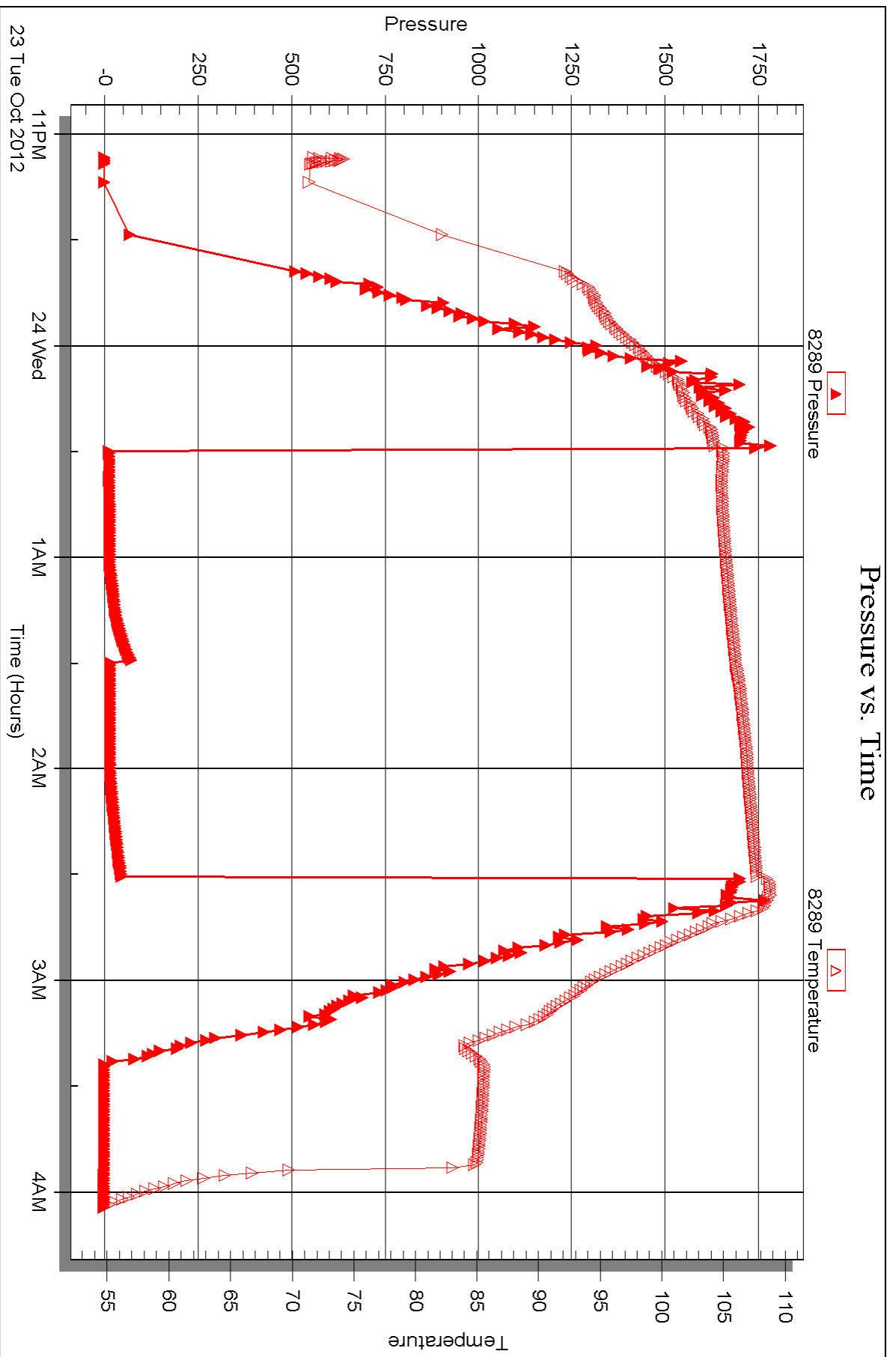


Serial #: 8289

Outside Baird Oil Company, LLC

Quinn #4-2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Quinn #4-2

2-7s-22w Graham,KS

Start Date: 2012.10.24 @ 09:16:41

End Date: 2012.10.24 @ 15:47:11

Job Ticket #: 48712 DST #: 2

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

Printed: 2012.11.01 @ 13:36:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48712

DST#: 2

ATTN: Richard Bell

Test Start: 2012.10.24 @ 09:16:41

GENERAL INFORMATION:

Formation: **C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:10:11
 Time Test Ended: 15:47:11
 Interval: **3510.00 ft (KB) To 3532.00 ft (KB) (TVD)**
 Total Depth: 3532.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2257.00 ft (KB)
 2252.00 ft (CF)
 KB to GR/CF: 5.00 ft

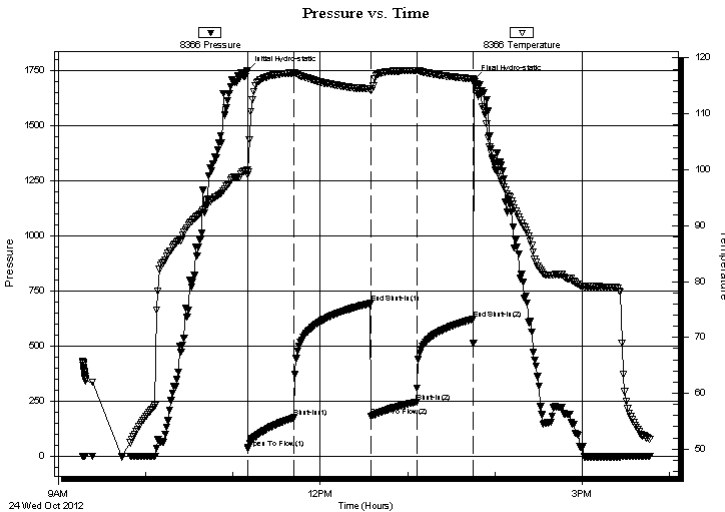
Serial #: 8366

Inside

Press @ Run Depth: 247.19 psig @ 3514.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.24 End Date: 2012.10.24 Last Calib.: 2012.10.24
 Start Time: 09:16:43 End Time: 15:47:11 Time On Btm: 2012.10.24 @ 11:09:56
 Time Off Btm: 2012.10.24 @ 13:45:56

TEST COMMENT: IFP-Good Blow , BOB in 9 min.
 ISI-Weak Surface Blow back,Built to 1/16", Died in 15 min
 FFP-Fair Blow , Built to 7-1/2"
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1750.00	100.00	Initial Hydro-static
1	37.96	99.07	Open To Flow (1)
32	176.31	117.34	Shut-In(1)
85	694.22	114.44	End Shut-In(1)
86	183.18	114.12	Open To Flow (2)
117	247.19	117.73	Shut-In(2)
156	622.66	116.24	End Shut-In(2)
156	1707.55	115.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
470.00	VSOCMW-1%O-89%W-10%M	5.47
14.00	Free Oil	0.20

* 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 Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48712

DST#: 2

ATTN: Richard Bell

Test Start: 2012.10.24 @ 09:16:41

Tool Information

Drill Pipe:	Length: 3392.00 ft	Diameter: 3.80 inches	Volume: 47.58 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3510.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 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			3490.00	
Shut In Tool	5.00			3495.00	
Hydraulic tool	5.00			3500.00	
Packer	5.00			3505.00	21.00 Bottom Of Top Packer
Packer	5.00			3510.00	
Stubb	1.00			3511.00	
Perforations	3.00			3514.00	
Recorder	0.00	8366	Inside	3514.00	
Recorder	0.00	8289	Outside	3514.00	
Perforations	15.00			3529.00	
Bullnose	3.00			3532.00	22.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48712

DST#: 2

ATTN: Richard Bell

Test Start: 2012.10.24 @ 09:16:41

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

44000 ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
470.00	VSOCMW-1%O-89%W-10%M	5.472
14.00	Free Oil	0.196

Total Length: 484.00 ft

Total Volume: 5.668 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

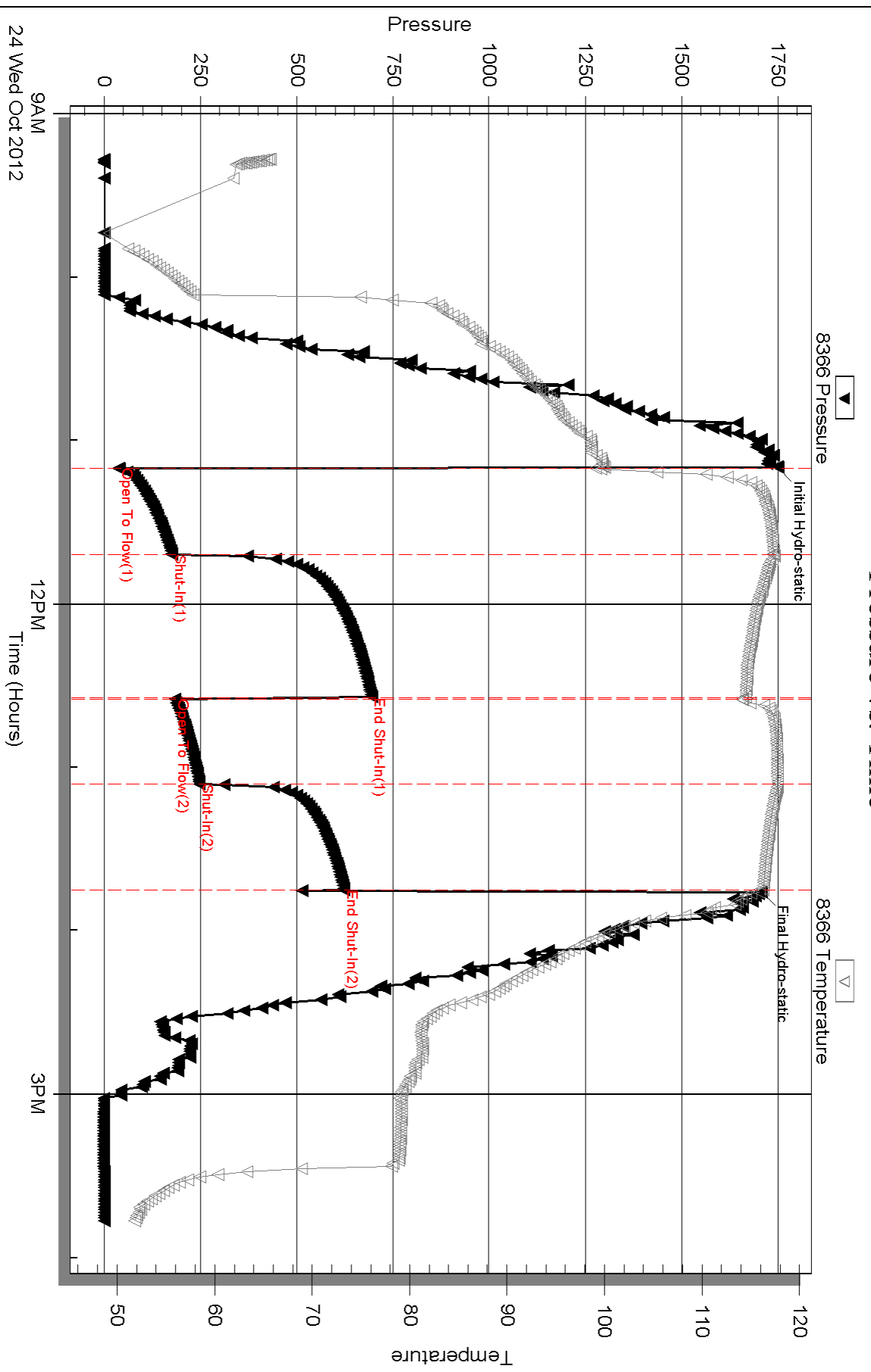
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

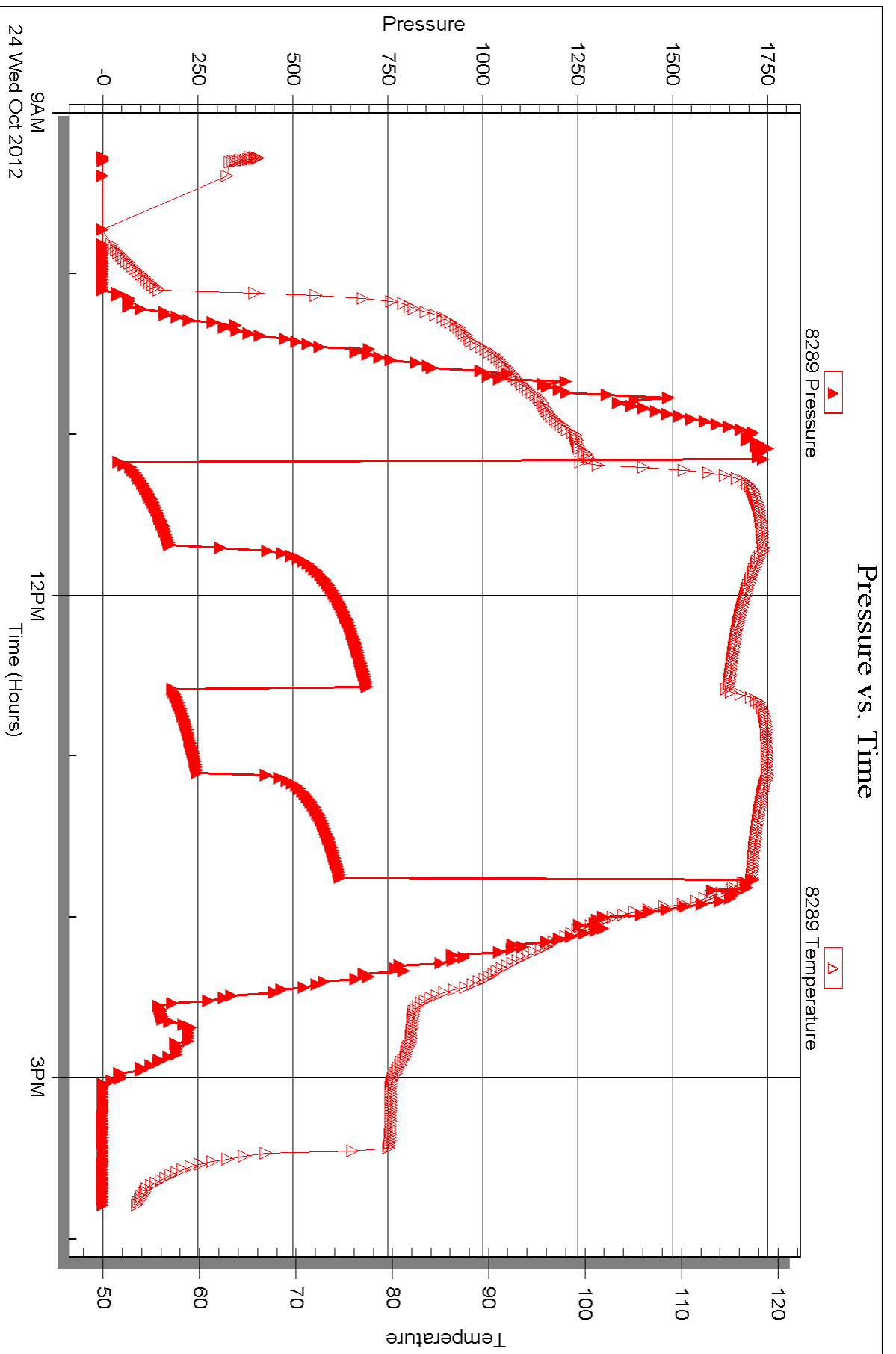


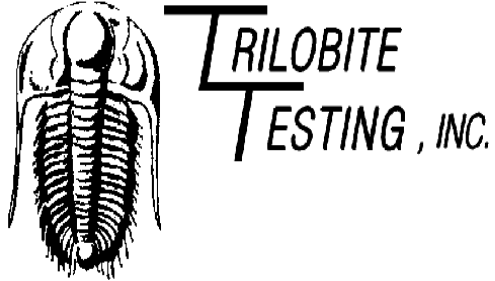
Serial #: 8289

Outside Baird Oil Company, LLC

Quinn #4-2

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Quinn #4-2

2-7s-22w Graham,KS

Start Date: 2012.10.24 @ 21:07:38

End Date: 2012.10.25 @ 03:27:23

Job Ticket #: 48713 DST #: 3

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

Printed: 2012.11.01 @ 13:35:24



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48713

DST#: 3

ATTN: Richard Bell

Test Start: 2012.10.24 @ 21:07:38

GENERAL INFORMATION:

Formation: **D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:51:53
 Time Test Ended: 03:27:23
 Interval: **3531.00 ft (KB) To 3548.00 ft (KB) (TVD)**
 Total Depth: 3548.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2257.00 ft (KB)
 2252.00 ft (CF)
 KB to GR/CF: 5.00 ft

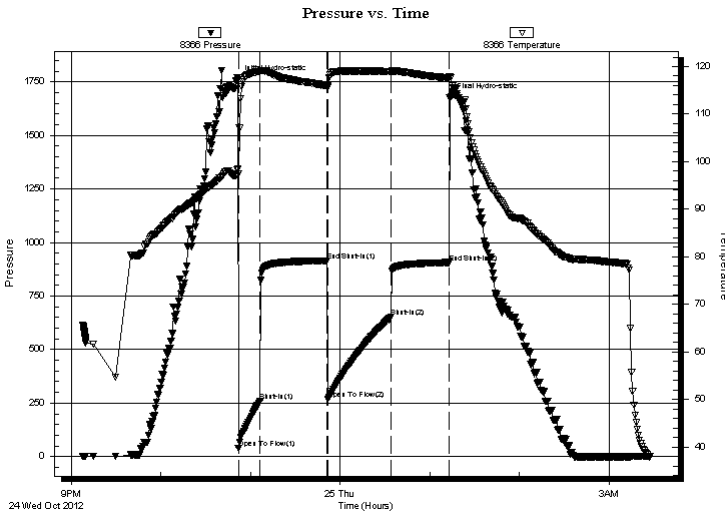
Serial #: 8366

Inside

Press @ Run Depth: 651.92 psig @ 3535.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.24 End Date: 2012.10.25 Last Calib.: 2012.10.25
 Start Time: 21:07:40 End Time: 03:27:23 Time On Btm: 2012.10.24 @ 22:51:23
 Time Off Btm: 2012.10.25 @ 01:13:23

TEST COMMENT: IFP-Strong, BOB in 3 Min.
 ISI-Dead
 Strong, BOB in 3 Min.
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.54	98.42	Initial Hydro-static
1	39.26	97.41	Open To Flow (1)
15	259.21	118.92	Shut-In(1)
60	912.77	115.96	End Shut-In(1)
61	266.97	115.70	Open To Flow (2)
103	651.92	118.98	Shut-In(2)
142	906.69	117.60	End Shut-In(2)
142	1675.81	117.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1290.00	Muddy Water-95%W-5%M	16.97

* 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 Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48713

DST#: 3

ATTN: Richard Bell

Test Start: 2012.10.24 @ 21:07:38

Tool Information

Drill Pipe:	Length: 3392.00 ft	Diameter: 3.80 inches	Volume: 47.58 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3531.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 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			3511.00	
Shut In Tool	5.00			3516.00	
Hydraulic tool	5.00			3521.00	
Packer	5.00			3526.00	21.00 Bottom Of Top Packer
Packer	5.00			3531.00	
Stubb	1.00			3532.00	
Perforations	3.00			3535.00	
Recorder	0.00	8366	Inside	3535.00	
Recorder	0.00	8289	Outside	3535.00	
Perforations	10.00			3545.00	
Bullnose	3.00			3548.00	17.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48713

DST#: 3

ATTN: Richard Bell

Test Start: 2012.10.24 @ 21:07:38

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:

41000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1290.00	Muddy Water-95%W-5%M	16.975

Total Length: 1290.00 ft Total Volume: 16.975 bbl

Num Fluid Samples: 0

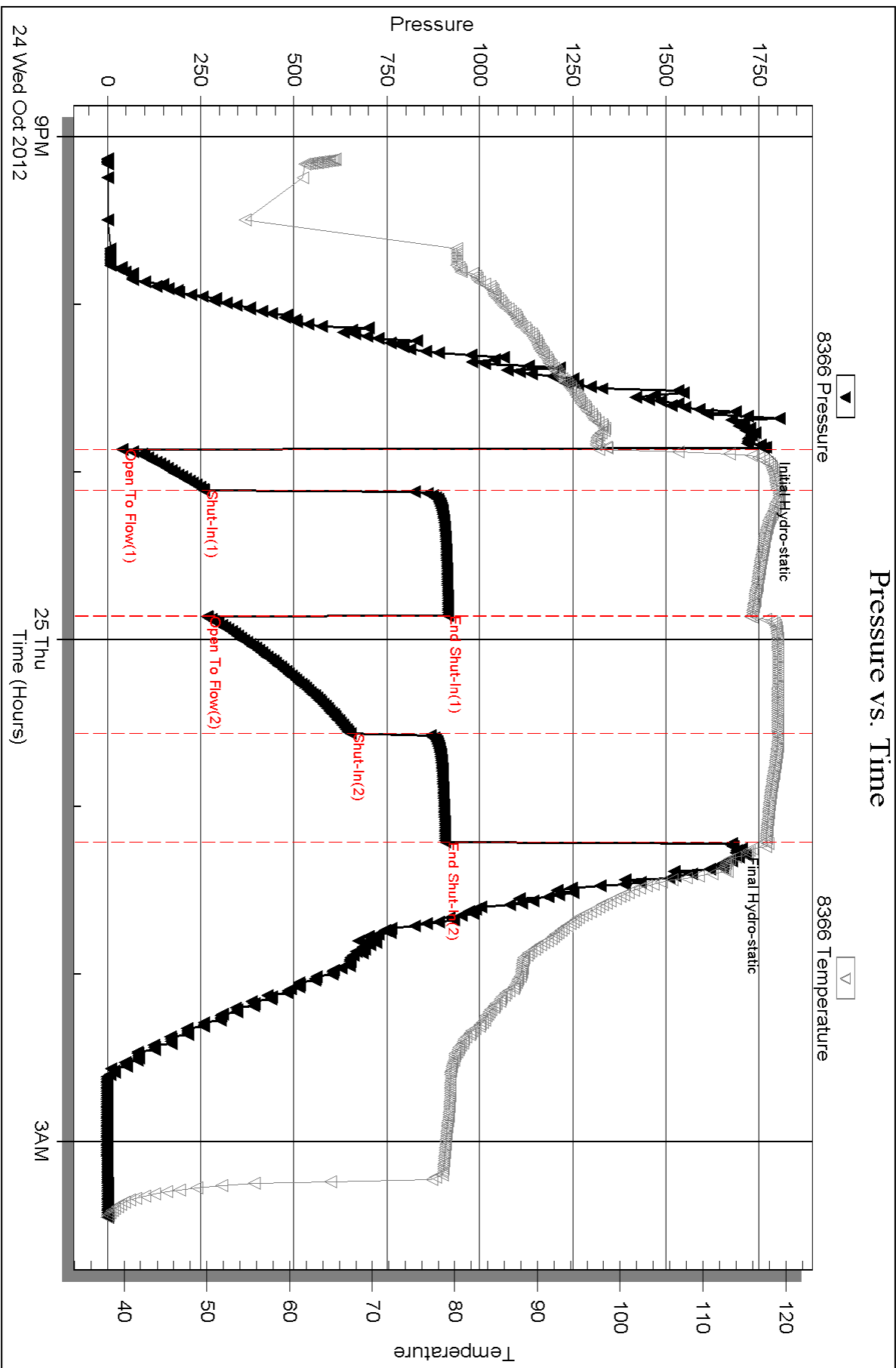
Num Gas Bombs: 0

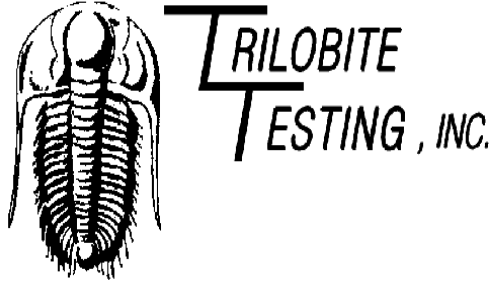
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Quinn #4-2

2-7s-22w Graham,KS

Start Date: 2012.10.25 @ 09:12:10

End Date: 2012.10.25 @ 15:44:10

Job Ticket #: 48714 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.01 @ 13:34:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48714

DST#: 4

ATTN: Richard Bell

Test Start: 2012.10.25 @ 09:12:10

GENERAL INFORMATION:

Formation: **E-F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 10:41:55 Tester: Jason McLemore
 Time Test Ended: 15:44:10 Unit No: 54
 Interval: **3548.00 ft (KB) To 3572.00 ft (KB) (TVD)** Reference Elevations: 2257.00 ft (KB)
 Total Depth: 3504.00 ft (KB) (TVD) 2252.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

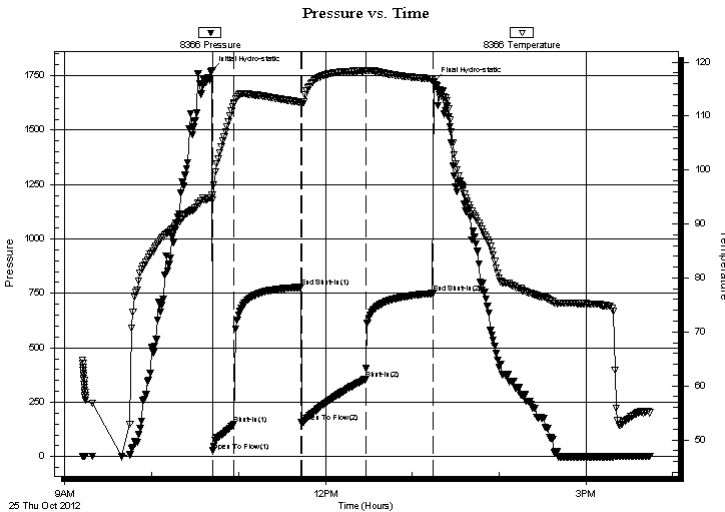
Serial #: 8366

Inside

Press @ Run Depth: 356.64 psig @ 3552.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.25 End Date: 2012.10.25 Last Calib.: 2012.10.25
 Start Time: 09:12:12 End Time: 15:44:10 Time On Btm: 2012.10.25 @ 10:41:40
 Time Off Btm: 2012.10.25 @ 13:14:55

TEST COMMENT: IFP-Strong, BOB in 4-1/2 Min.
 ISI-Blow back Built to 2-1/2"
 FFP-Strong, BOB in 4 Min.
 FSI-Blow back Built to 2-3/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.92	95.32	Initial Hydro-static
1	26.25	94.46	Open To Flow (1)
15	147.84	112.26	Shut-In(1)
62	777.98	112.56	End Shut-In(1)
62	156.15	112.27	Open To Flow (2)
106	356.64	118.38	Shut-In(2)
153	749.80	116.86	End Shut-In(2)
154	1720.52	116.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	Muddy Water-95%W-5%M	4.77
180.00	GOCWM-15%G-10%O-25%W-50%M	2.52
140.00	Free Oil	1.96
0.00	280' Gas In Pipe	0.00

* 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 Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48714

DST#: 4

ATTN: Richard Bell

Test Start: 2012.10.25 @ 09:12:10

Tool Information

Drill Pipe:	Length: 3425.00 ft	Diameter: 3.80 inches	Volume: 48.04 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3548.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	45.00 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			3528.00	
Shut In Tool	5.00			3533.00	
Hydraulic tool	5.00			3538.00	
Packer	5.00			3543.00	21.00 Bottom Of Top Packer
Packer	5.00			3548.00	
Stubb	1.00			3549.00	
Perforations	3.00			3552.00	
Recorder	0.00	8366	Inside	3552.00	
Recorder	0.00	8289	Outside	3552.00	
Perforations	17.00			3569.00	
Bullnose	3.00			3572.00	24.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48714

DST#: 4

ATTN: Richard Bell

Test Start: 2012.10.25 @ 09:12:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

41000 ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
420.00	Muddy Water-95%W-5%M	4.771
180.00	GOCWM-15%G-10%O-25%W-50%M	2.525
140.00	Free Oil	1.964
0.00	280' Gas In Pipe	0.000

Total Length: 740.00 ft

Total Volume: 9.260 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

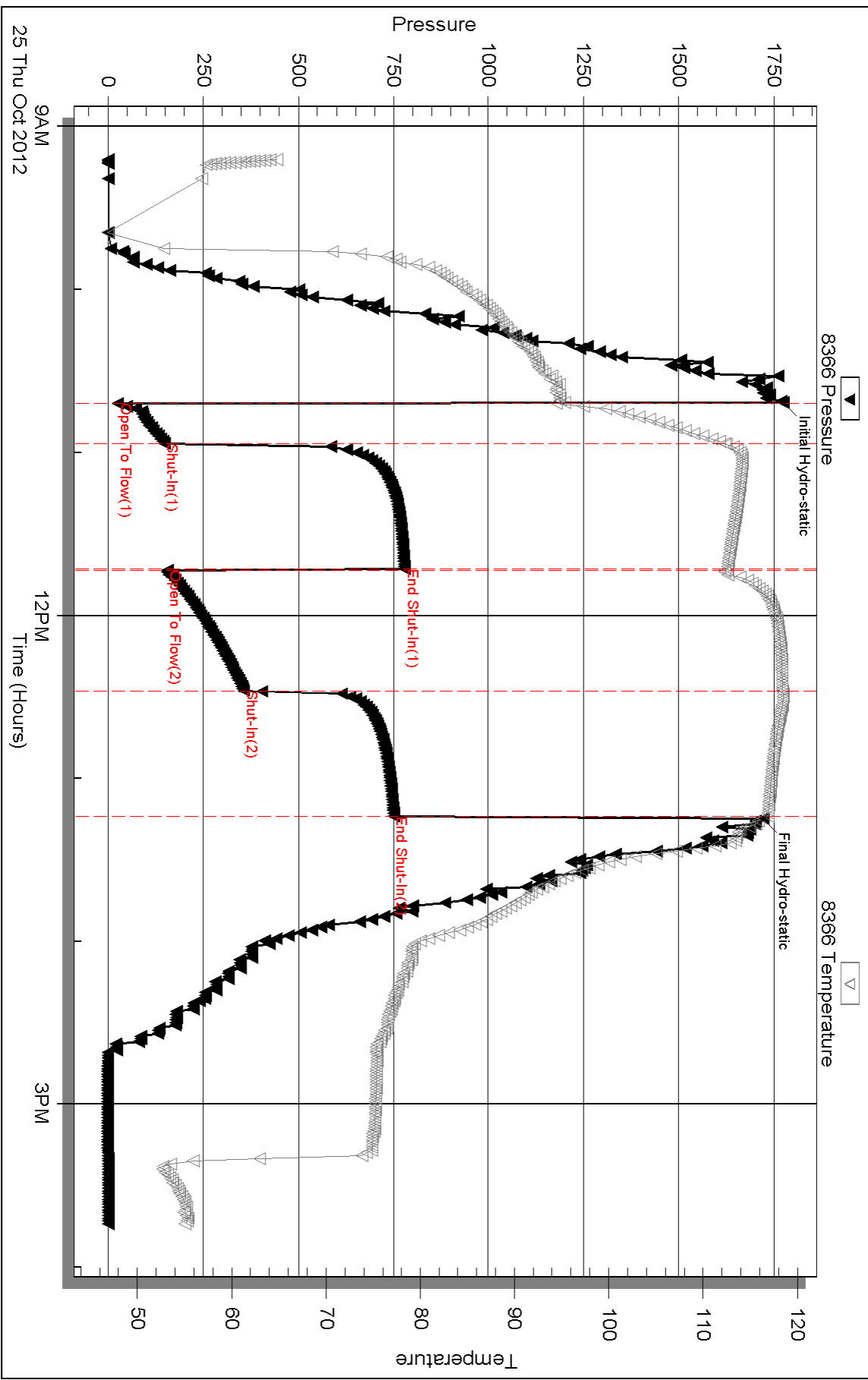
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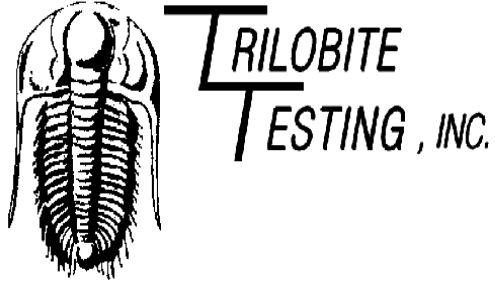
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Baird Oil Company, LLC**

PO Box 428
Logan, KS 67646

ATTN: Richard Bell

Quinn #4-2

2-7s-22w Graham,KS

Start Date: 2012.10.26 @ 01:17:48

End Date: 2012.10.26 @ 08:13:48

Job Ticket #: 48715 DST #: 5

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

Printed: 2012.11.01 @ 13:33:37



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48715

DST#: 5

ATTN: Richard Bell

Test Start: 2012.10.26 @ 01:17:48

GENERAL INFORMATION:

Formation: **I-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:29:18
 Time Test Ended: 08:13:48
 Interval: **3628.00 ft (KB) To 3660.00 ft (KB) (TVD)**
 Total Depth: 3504.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2257.00 ft (KB)
 2252.00 ft (CF)
 KB to GR/CF: 5.00 ft

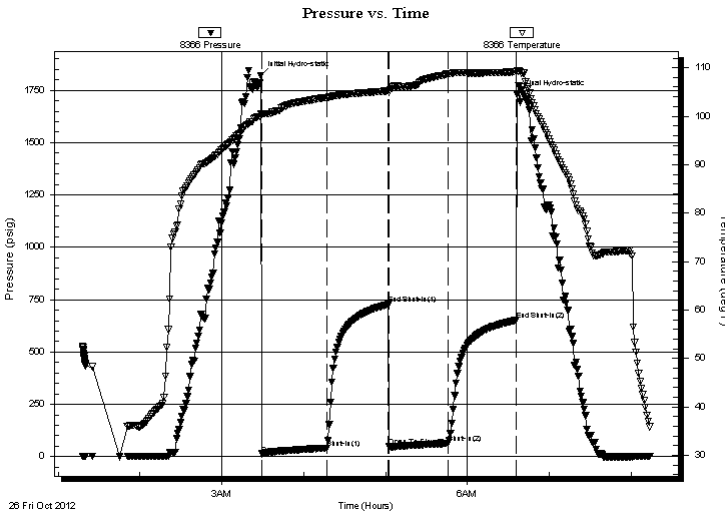
Serial #: 8366

Inside

Press @ Run Depth: 63.67 psig @ 3632.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.26 End Date: 2012.10.26 Last Calib.: 2012.10.26
 Start Time: 01:17:50 End Time: 08:13:48 Time On Btm: 2012.10.26 @ 03:28:33
 Time Off Btm: 2012.10.26 @ 06:36:33

TEST COMMENT: IFP-Wea Blow , Built to 3"
 ISI-Dead
 FFP-Weak Surface Blow , Lasted Throughout
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.11	100.57	Initial Hydro-static
1	13.96	100.26	Open To Flow (1)
48	41.59	103.85	Shut-In(1)
94	727.22	105.23	End Shut-In(1)
94	47.42	105.00	Open To Flow (2)
138	63.67	108.74	Shut-In(2)
188	651.43	109.18	End Shut-In(2)
188	1729.64	109.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	OCM-10%O-90%M	0.34

* 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 Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48715

DST#: 5

ATTN: Richard Bell

Test Start: 2012.10.26 @ 01:17:48

Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 49.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3628.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	53.00 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			3608.00	
Shut In Tool	5.00			3613.00	
Hydraulic tool	5.00			3618.00	
Packer	5.00			3623.00	21.00 Bottom Of Top Packer
Packer	5.00			3628.00	
Stubb	1.00			3629.00	
Perforations	3.00			3632.00	
Recorder	0.00	8366	Inside	3632.00	
Recorder	0.00	8289	Outside	3632.00	
Perforations	25.00			3657.00	
Bullnose	3.00			3660.00	32.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Baird Oil Company, LLC

2-7s-22w Graham,KS

PO Box 428
Logan, KS 67646

Quinn #4-2

Job Ticket: 48715

DST#: 5

ATTN: Richard Bell

Test Start: 2012.10.26 @ 01:17:48

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: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	OCM-10%O-90%M	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

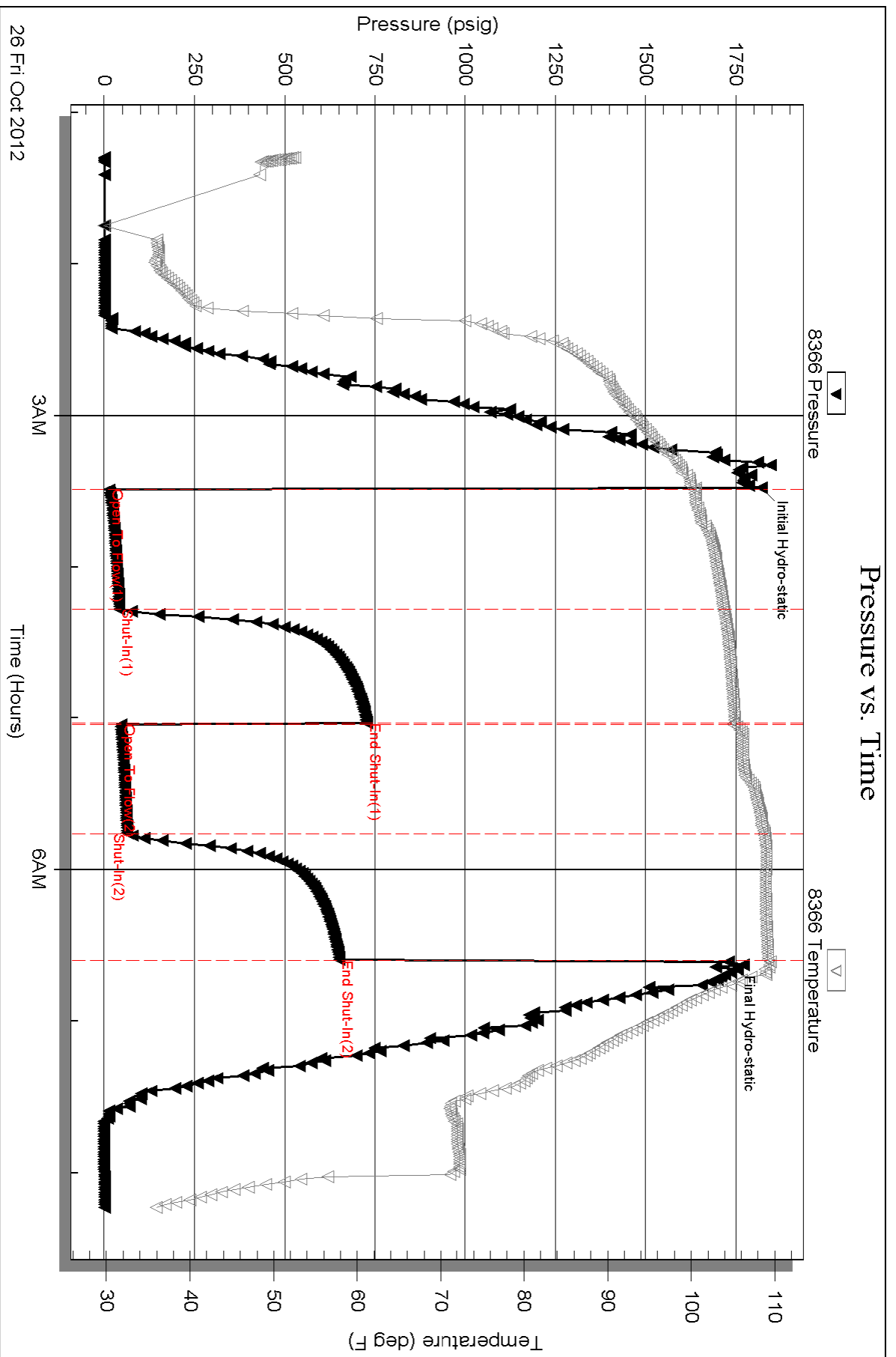
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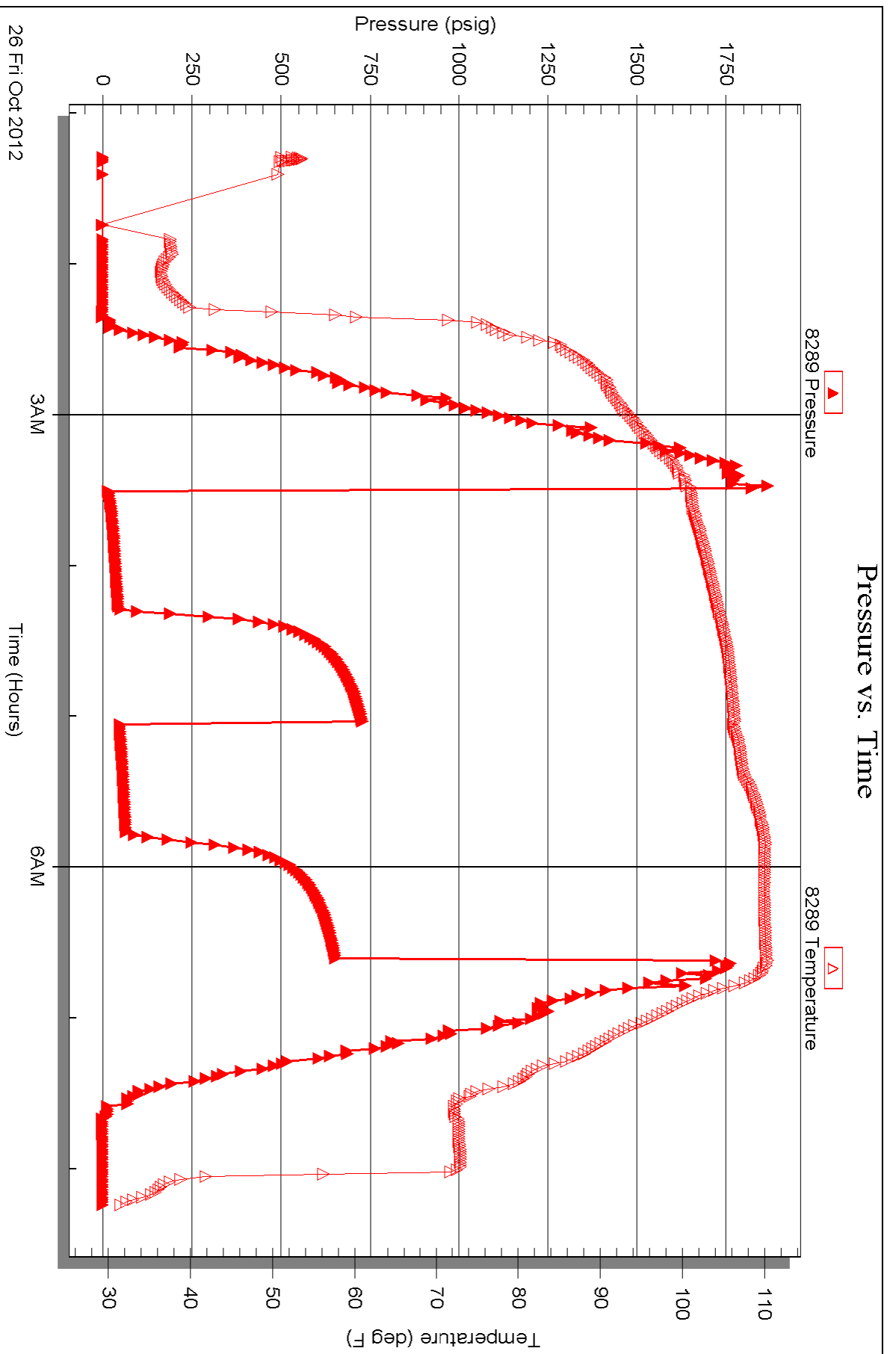
Inside

Baird Oil Company, LLC

Quinn #4-2

DST Test Number: 5







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48711

4/10

Well Name & No. Quinn #4-2 Test No. 1 Date 10-23-12
 Company Baird Oil Company, LLC Elevation 2257 KB 2252 GL
 Address PO Box 428, Logan, KS. 67646
 Co. Rep / Geo. Richard Bell Rig WW #8
 Location: Sec. 2 Twp. 7s Rge. 22w Co. Graham State KS

Interval Tested 3484-3504 Zone Tested A
 Anchor Length 20' Drill Pipe Run 3360 Mud Wt. 9.0
 Top Packer Depth 3479 Drill Collars Run 123 Vis 80
 Bottom Packer Depth 3484 Wt. Pipe Run 0 WL 8.0
 Total Depth 3504 Chlorides 1900 ppm System LCM 2#
 Blow Description IFP - Weak Surface Blow, Died in 12 min.
ISI - Dead
FFP - Dead
FST - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>SOCM</u>	<u>10</u>		<u>90</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 10 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1740 Test 1150 T-On Location 22:21
 (B) First Initial Flow 10 Jars _____ T-Started 23:04
 (C) First Final Flow 13 Safety Joint _____ T-Open 24:27
 (D) Initial Shut-In 71 Circ Sub _____ T-Pulled 2:27
 (E) Second Initial Flow 14 Hourly Standby _____ T-Out 4:01
 (F) Second Final Flow 14 Mileage 144 rt 223.20 Comments _____
 (G) Final Shut-In 44 Sampler _____
 (H) Final Hydrostatic 1698 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1273.20
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1273.20

Approved By _____ Our Representative Jason McLeon Thank you

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48712

4/10

Well Name & No. Quinn #4-2 Test No. 2 Date 10-24-12
 Company Baird Oil Company, LLC Elevation 2257 KB 2252 GL
 Address PO Box 428, Logan, Ks. 67646
 Co. Rep / Geo. Richard Bell Rig Ww#8
 Location: Sec. 2 Twp. 7s Rge. 22w Co. Graham State Ks

Interval Tested 3510 - 3532 Zone Tested 'C'
 Anchor Length 22' Drill Pipe Run 3392 Mud Wt. 9.0
 Top Packer Depth 3505 Drill Collars Run 123 Vis 80
 Bottom Packer Depth 3510 Wt. Pipe Run 0 WL 8.0
 Total Depth 3532 Chlorides 1,900 ppm System LCM 2th
 Blow Description TFP - Good Blow, BOB in 9 min.
IST - Surface Blowback up to 4 1/16", Died after 15 min.
FFP - Fair Blow, Built to 7 1/2"
FSE - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>14</u>	<u>Free Oil</u>				
<u>470</u>	<u>VSOCM</u>		<u>1</u>	<u>89</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 484 BHT 117° Gravity 30 API RW .199 @ 55 °F Chlorides 44,000 ppm

(A) Initial Hydrostatic <u>1750</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>9:12</u>
(B) First Initial Flow <u>38</u>	<input type="checkbox"/> Jars	T-Started <u>9:14</u>
(C) First Final Flow <u>176</u>	<input type="checkbox"/> Safety Joint	T-Open <u>11:09</u>
(D) Initial Shut-In <u>694</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>13:39</u>
(E) Second Initial Flow <u>183</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>15:45</u>
(F) Second Final Flow <u>247</u>	<input checked="" type="checkbox"/> Mileage <u>223.20</u>	Comments
(G) Final Shut-In <u>623</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1708</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>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1373.20</u>
	Sub Total <u>1373.20</u>	MP/DST Disc't

Approved By _____ Our Representative Jason McLenon Thank you

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48713

4/10

Well Name & No. Quinn # 4-2 Test No. 3 Date 10-24-12
 Company Baird Oil Company, LLC Elevation 2257 KB 2252 GL
 Address PO Box 428, Logan, KS. 67646
 Co. Rep / Geo. Richard Bell Rig WW #8
 Location: Sec. 2 Twp. 7s Rge. 22w Co. Graham State KS

Interval Tested 3531-3548 Zone Tested 'D'
 Anchor Length 17 Drill Pipe Run 3392 Mud Wt. 9.3
 Top Packer Depth 3526 Drill Collars Run 123 Vis 55
 Bottom Packer Depth 3531 Wt. Pipe Run 0 WL 6.8
 Total Depth 3548 Chlorides 2,700 ppm System LCM 1 1/2 #
 Blow Description IFP- Strong, BOB in 3 min
ISI- Dead
FFP- Strong, BOB in 3 min.
FSI- Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>1290</u>	<u>Muddy Water</u>		<u>95</u>	<u>5</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 1290 BHT 118° Gravity _____ API RW 230 @ 49° F Chlorides 41,000 ppm

(A) Initial Hydrostatic 1762 Test 1150 T-On Location 21:03
 (B) First Initial Flow 39 Jars _____ T-Started 21:05
 (C) First Final Flow 259 Safety Joint _____ T-Open 22:49
 (D) Initial Shut-In 913 Circ Sub _____ T-Pulled 1:04
 (E) Second Initial Flow 267 Hourly Standby _____ T-Out 3:24
 (F) Second Final Flow 652 Mileage 223.20 Comments _____
 (G) Final Shut-In 907 Sampler _____
 (H) Final Hydrostatic 1676 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1373.20
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1373.20

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48714

4/10

Well Name & No. Quinn #4-2 Test No. 4 Date 10-25-12
 Company Baird Oil Company, LLC Elevation 2257 KB 2252 GL
 Address PO Box 428, Logan, KS. 67646
 Co. Rep / Geo. Richard Bell Rig WW#8
 Location: Sec. 2 Twp. 7s Rge. 22w Co. Graham State KS

Interval Tested 3548-3572 Zone Tested E-F
 Anchor Length 24' Drill Pipe Run 3425 Mud Wt. 9.3
 Top Packer Depth 3543 Drill Collars Run 123 Vis 55
 Bottom Packer Depth 3548 Wt. Pipe Run 0 WL 6.8
 Total Depth 3572 Chlorides 2700 ppm System LCM 1 1/2"
 Blow Description IFP- Strong, BOB in 4 1/2 min
ISI- Blowback Built to 2 1/2"
FFP- Strong, BOB in 4 min
FSI- Blowback Built to 2 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>140'</u>	<u>Free Oil</u>				
<u>180'</u>	<u>GOCWM</u>	<u>15</u>	<u>10</u>	<u>25</u>	<u>50</u>
<u>420'</u>	<u>Muddy Water</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>280' Gas In Pipe</u>	%gas	%oil	%water	%mud
Rec Total <u>740</u>	BHT	Gravity <u>35</u>	API RW <u>221 @ 51° F</u>	Chlorides <u>41,000</u>	ppm

(A) Initial Hydrostatic Test 1150 T-On Location 8:58
 (B) First Initial Flow Jars T-Started 9:10
 (C) First Final Flow Safety Joint T-Open 10:42
 (D) Initial Shut-In Circ Sub T-Pulled 13:12
 (E) Second Initial Flow Hourly Standby T-Out 15:44
 (F) Second Final Flow Mileage 223.20 Comments _____
 (G) Final Shut-In Sampler _____
 (H) Final Hydrostatic Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Sub Total 1373.20
 MP/DST Disc't _____

Approved By _____ Our Representative Jason McLemore *Thank You*

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48715

4/10

Well Name & No. Quinn #4-2 Test No. 5 Date 10-26-12
 Company Baird Oil Company, LLC Elevation 2257 KB 2252 GL
 Address PO Box 428, Logan, KS. 67646
 Co. Rep / Geo. Richard Bell Rig WW#8
 Location: Sec. 2 Twp. 7s Rge. 22w Co. Graham State KS

Interval Tested 3628-3660 Zone Tested I-J
 Anchor Length 32' Drill Pipe Run 3488 Mud Wt. 9.3
 Top Packer Depth 3623 Drill Collars Run 123 Vis 55
 Bottom Packer Depth 3628 Wt. Pipe Run 0 WL 6.8
 Total Depth 3660 Chlorides 2700 ppm System LCM 1 1/2
 Blow Description IIFP - Weak Blow, Built to 3"
ISI - Dead
FFP - Weak Surface Blow, lasted throughout
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>OCM</u>	<u>10</u>		<u>90</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 70 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1820 Test 1150 T-On Location 1:07
 (B) First Initial Flow 14 Jars _____ T-Started 1:15
 (C) First Final Flow 42 Safety Joint _____ T-Open 3:28
 (D) Initial Shut-In 727 Circ Sub _____ T-Pulled 6:28
 (E) Second Initial Flow 47 Hourly Standby _____ T-Out 8:14
 (F) Second Final Flow 64 Mileage 223.20 Comments _____
 (G) Final Shut-In 651 Sampler _____
 (H) Final Hydrostatic 1730 Straddle _____
 Shale Packer _____
 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 1373.20

Sub Total 1373.20

Approved By _____ Our Representative _____
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinions 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.