

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

113 W. Main
Logan, KS 67646

ATTN: Richard Bell

36-3s-22w Norton,KS

Arnold Shearer #1-36

Start Date: 2011.06.18 @ 09:53:32

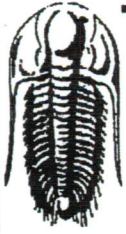
End Date: 2011.06.18 @ 16:26:02

Job Ticket #: 42417 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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TESTING, INC**

DRILL STEM TEST REPORT

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Logan, KS 67646

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Job Ticket: 42417 DST#: 1

ATTN: Richard Bell

Test Start: 2011.06.18 @ 09:53:32

GENERAL INFORMATION:

Formation: **LKC "A"**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 11:35:02
 Time Test Ended: 16:26:02

Test Type: Conventional Bottom Hole
 Tester: Dustin Rash
 Unit No: 38

Interval: **3584.00 ft (KB) To 3602.00 ft (KB) (TVD)**
 Total Depth: 3602.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2349.00 ft (KB)
 2344.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8354

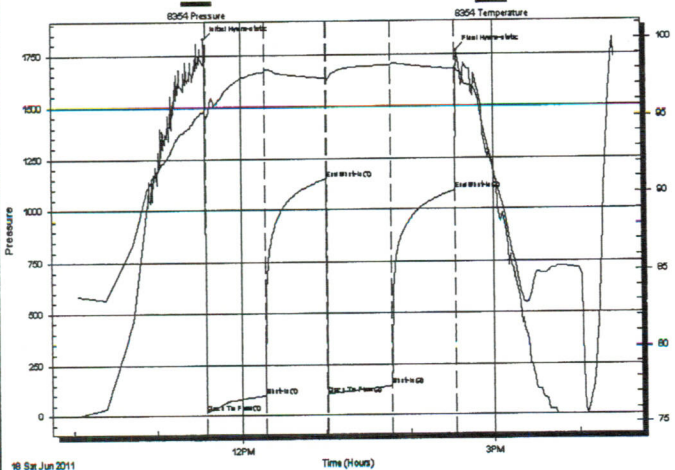
Inside

Press@RunDepth: 141.49 psig @ 3586.00 ft (KB)
 Start Date: 2011.06.18 End Date: 2011.06.18
 Start Time: 10:03:32 End Time: 16:26:02

Capacity: 8000.00 psig
 Last Calib.: 2011.06.18
 Time On Btm: 2011.06.18 @ 11:34:02
 Time Off Btm: 2011.06.18 @ 14:34:02

TEST COMMENT: IF-Weak building blow . BOB in 44 & 1/2 minutes.
 IS-No Return.
 FF-Weak building blow . Built to 10 & 1/2 inches.
 FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

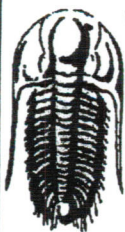
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1826.96	95.33	Initial Hydro-static
1	15.58	94.38	Open To Flow (1)
43	96.57	97.87	Shut-In(1)
87	1148.10	97.43	End Shut-In(1)
87	100.37	97.12	Open To Flow (2)
133	141.49	98.27	Shut-In(2)
179	1091.96	97.98	End Shut-In(2)
180	1767.96	97.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
277.00	85%Water/15%Water	2.77

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Baird Oil Company, LLC.

Arnold Shearer #1-36

113 W. Main
Logan, KS 67646

36-3s-22w Norton,KS

ATTN: Richard Bell

Job Ticket: 42417

DST#: 1

Test Start: 2011.06.18 @ 09:53:32

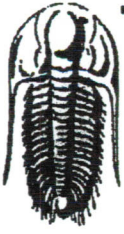
Tool Information

Drill Pipe:	Length: 3456.00 ft	Diameter: 3.80 inches	Volume: 48.48 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: 22000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 5000.00 lb
		<u>Total Volume:</u>	<u>49.08 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3584.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			3565.00	
Shut In Tool	5.00			3570.00	
Hydraulic tool	5.00			3575.00	
Packer	5.00			3580.00	20.00 Bottom Of Top Packer
Packer	4.00			3584.00	
Stubb	1.00			3585.00	
Perforations	1.00			3586.00	
Recorder	0.00	8354	Inside	3586.00	
Recorder	0.00	8520	Outside	3586.00	
Perforations	13.00			3599.00	
Bullnose	3.00			3602.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



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FLUID SUMMARY

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113 W. Main
Logan, KS 67646

36-3s-22w Norton,KS

Job Ticket: 42417

DST#: 1

ATTN: Richard Bell

Test Start: 2011.06.18 @ 09:53:32

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	60000 ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: 0.09 ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
277.00	85%Water/15%Water	2.774

Total Length: 277.00 ft Total Volume: 2.774 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

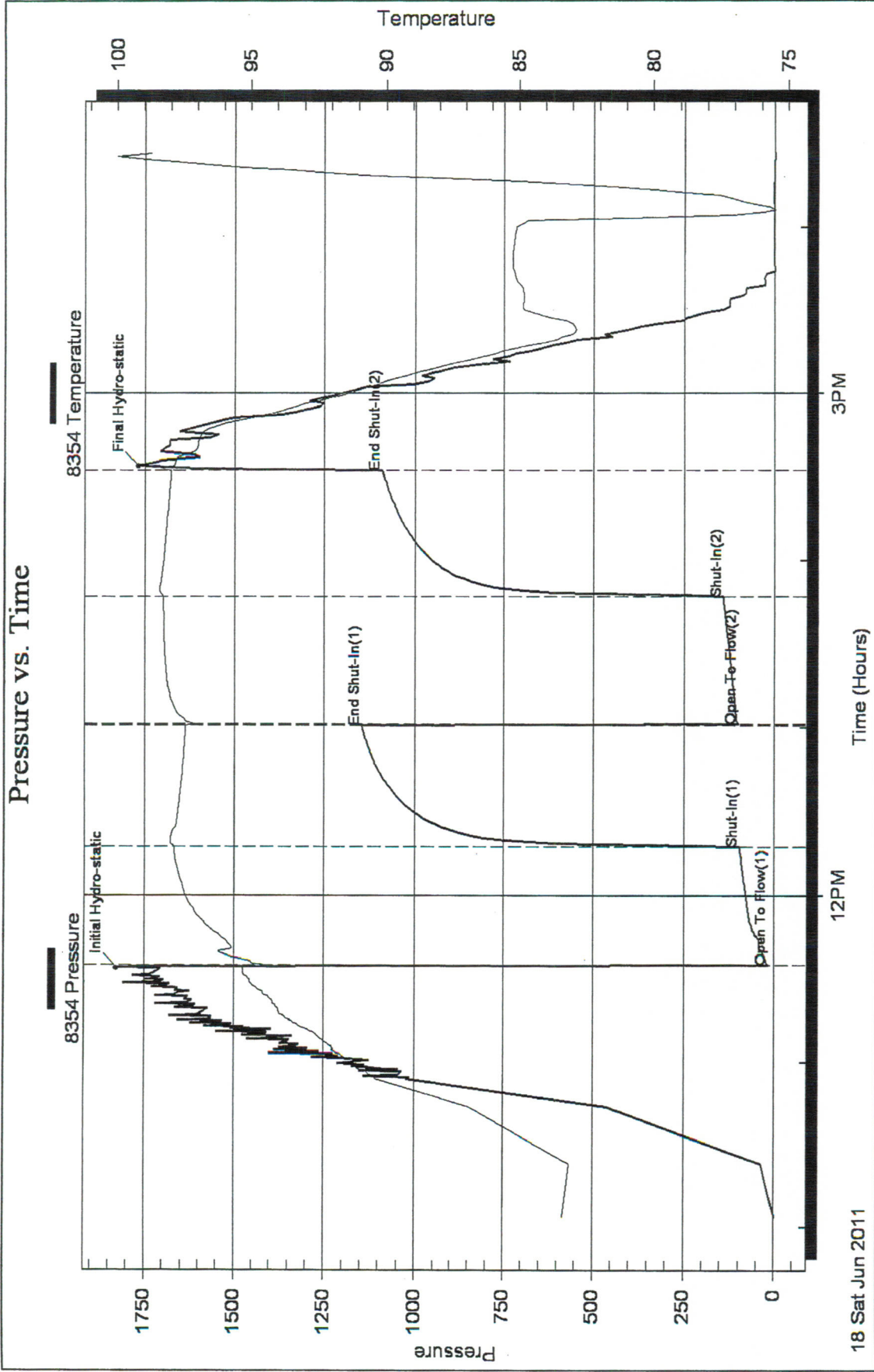
Inside

Baird Oil Company, LLC.

36-3s-22w Norton, KS

DST Test Number: 1

Pressure vs. Time

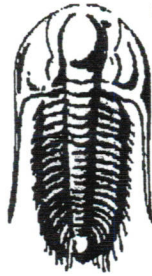


18 Sat Jun 2011

12PM

3PM

Time (Hours)



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113 W. Main
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ATTN: Richard Bell

36-3s-22w Norton,KS

Arnold Shearer #1-36

Start Date: 2011.06.19 @ 19:30:15

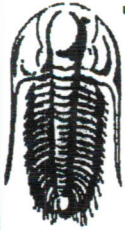
End Date: 2011.06.20 @ 00:19:45

Job Ticket #: 42418 DST #: 2

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DRILL STEM TEST REPORT

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113 W. Main
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ATTN: Richard Bell

Arnold Shearer #1-36

36-3s-22w Norton, KS

Job Ticket: 42418

DST#: 2

Test Start: 2011.06.19 @ 19:30:15

GENERAL INFORMATION:

Formation: **Basal Pen Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:18:45

Time Test Ended: 00:19:45

Interval: **3816.00 ft (KB) To 3870.00 ft (KB) (TVD)**

Total Depth: 3870.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Reference Elevations: 2349.00 ft (KB)

2344.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press@RunDepth: 28.08 psig @ 3855.00 ft (KB)

Start Date: 2011.06.19

End Date:

2011.06.20

Start Time: 19:40:15

End Time:

00:19:45

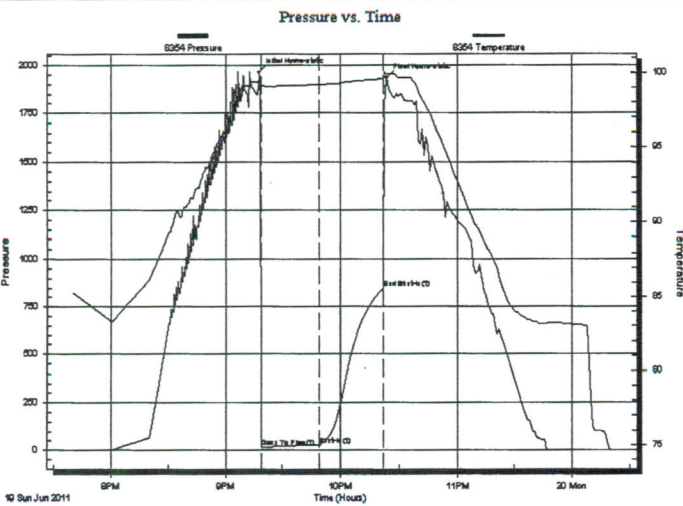
Capacity: 8000.00 psig

Last Calib.: 2011.06.20

Time On Btm: 2011.06.19 @ 21:17:45

Time Off Btm: 2011.06.19 @ 22:23:45

TEST COMMENT: IF-Very weak surging surface blow. Built to 1/4 inch.
IS-No Return.
FF-Pulled tool.



PRESSURE SUMMARY

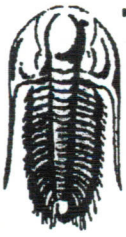
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1963.92	99.42	Initial Hydro-static
1	15.06	98.84	Open To Flow (1)
32	28.08	99.20	Shut-In(1)
65	846.14	99.57	End Shut-In(1)
66	1934.23	99.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	99%Mud/1%Oil	0.07

Gas Rates

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



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TOOL DIAGRAM

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Job Ticket: 42418

DST#: 2

ATTN: Richard Bell

Test Start: 2011.06.19 @ 19:30:15

Tool Information

Drill Pipe:	Length: 3704.00 ft	Diameter: 3.80 inches	Volume: 51.96 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: 24000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 4000.00 lb
			Total Volume: 52.56 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3816.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 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			3797.00	
Shut In Tool	5.00			3802.00	
Hydraulic tool	5.00			3807.00	
Packer	5.00			3812.00	20.00 Bottom Of Top Packer
Packer	4.00			3816.00	
Stubb	1.00			3817.00	
Perforations	5.00			3822.00	
Change Over Sub	1.00			3823.00	
Drill Pipe	31.00			3854.00	
Change Over Sub	1.00			3855.00	
Recorder	0.00	8354	Inside	3855.00	
Recorder	0.00	8520	Outside	3855.00	
Perforations	12.00			3867.00	
Bullnose	3.00			3870.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



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Job Ticket: 42418 DST#: 2

ATTN: Richard Bell

Test Start: 2011.06.19 @ 19:30:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	99%Mud/1%Oil	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:

Pressure vs. Time

