



## DRILL STEM TEST REPORT

Prepared For: **Baird Oil Comapny LLC**

PO Box 428  
Logan KS 67646

ATTN: Rich Bell

**13-07s-22w Graham,KS**

**David Worcester Unit #1-13**

Start Date: 2014.05.16 @ 16:44:20

End Date: 2014.05.16 @ 22:29:40

Job Ticket #: 58935                      DST #: 1

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

Printed: 2014.05.20 @ 11:56:27

Baird Oil Comapny LLC

David Worcester Unit #1-13

13-07s-22w Graham,KS

DST # 1

LKC F&G

2014.05.16



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Baird Oil Company LLC

**David Worcester Unit #1-13**

PO Box 428  
Logan KS 67646

**13-07s-22w Graham,KS**

ATTN: Rich Bell

Job Ticket: 58935

**DST#: 1**

Test Start: 2014.05.16 @ 16:44:20

## GENERAL INFORMATION:

Formation: **LKC F&G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:18:40

Time Test Ended: 22:29:40

Test Type: Conventional Straddle (Initial)

Tester: Tate Lang

Unit No: 49

**Interval: 3460.00 ft (KB) To 3504.00 ft (KB) (TVD)**

Reference Elevations: 2165.00 ft (KB)

Total Depth: 3795.00 ft (KB) (TVD)

2157.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8898 Outside**

Press@RunDepth: 70.53 psig @ 3463.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.16

End Date:

2014.05.16

Last Calib.:

2014.05.16

Start Time: 16:44:21

End Time:

22:29:40

Time On Btm:

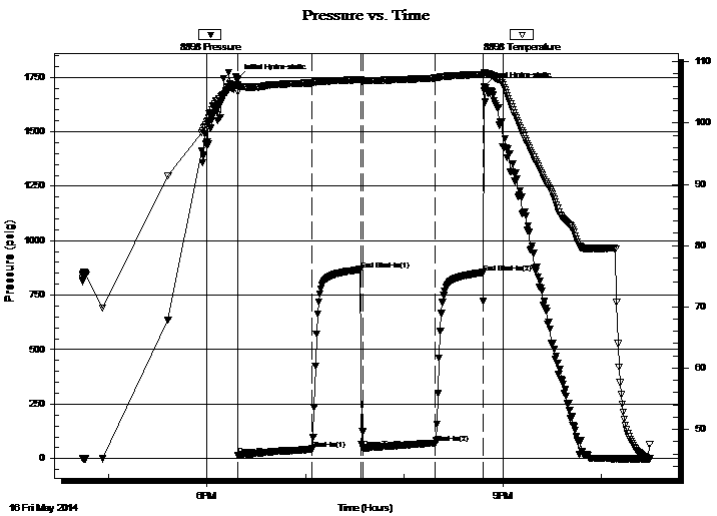
2014.05.16 @ 18:18:30

Time Off Btm:

2014.05.16 @ 20:48:30

**TEST COMMENT:** Weak surface blow built to 2 3/4"  
Dead no blow back  
Weak surface blow built to 1/4 in  
Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.42	106.21	Initial Hydro-static
1	14.85	105.06	Open To Flow (1)
46	43.05	106.55	Shut-In(1)
75	867.45	107.09	End Shut-In(1)
77	48.32	106.89	Open To Flow (2)
121	70.53	107.33	Shut-In(2)
150	853.94	107.94	End Shut-In(2)
150	1707.25	108.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	WCM 10%W 90%M	0.61

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

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**TOOL DIAGRAM**

Baird Oil Comapny LLC

**David Worcester Unit #1-13**

PO Box 428  
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Job Ticket: 58935

**DST#: 1**

ATTN: Rich Bell

Test Start: 2014.05.16 @ 16:44:20

## Tool Information

Drill Pipe:	Length: 3324.00 ft	Diameter: 3.80 inches	Volume: 46.63 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 47.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3460.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	3504.00 ft			
Interval betw een Packers:	44.00 ft			
Tool Length:	365.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3438.00	
Hydraulic tool	5.00			3443.00	
Jars	5.00			3448.00	
Safety Joint	2.00			3450.00	
Packer	5.00			3455.00	27.00 Bottom Of Top Packer
Packer	5.00			3460.00	
Stubb	1.00			3461.00	
Perforations	2.00			3463.00	
Recorder	0.00	8897	Inside	3463.00	
Recorder	0.00	8898	Outside	3463.00	
Change Over Sub	1.00			3464.00	
Drill Pipe	29.00			3493.00	
Change Over Sub	1.00			3494.00	
Perforations	5.00			3499.00	
Blank Off Sub	1.00			3500.00	
Blank Spacing	4.00			3504.00	44.00 Tool Interval
Packer	5.00			3509.00	
Stubb	1.00			3510.00	
Perforations	1.00			3511.00	
Recorder	0.00	8354	Below	3511.00	
Change Over Sub	1.00			3512.00	
Drill Pipe	282.00			3794.00	
Change Over Sub	1.00			3795.00	
Bullnose	3.00			3798.00	294.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>365.00</b>				



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Baird Oil Comapny LLC

**David Worcester Unit #1-13**

PO Box 428  
Logan KS 67646

**13-07s-22w Graham,KS**

Job Ticket: 58935

**DST#: 1**

ATTN: Rich Bell

Test Start: 2014.05.16 @ 16:44:20

## 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 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WCM 10%W 90%M	0.608

Total Length: 120.00 ft      Total Volume: 0.608 bbl

Num Fluid Samples: 0

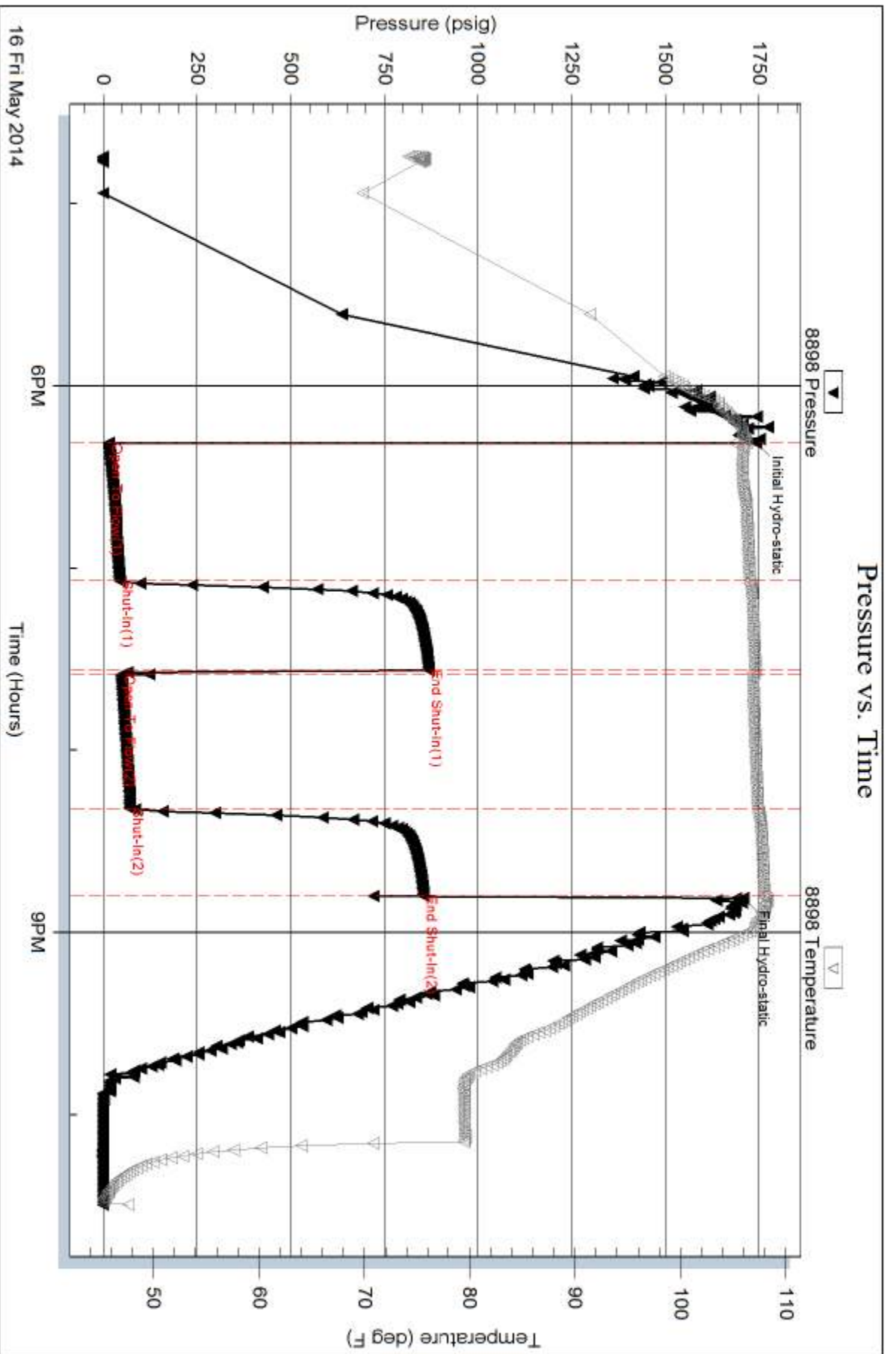
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



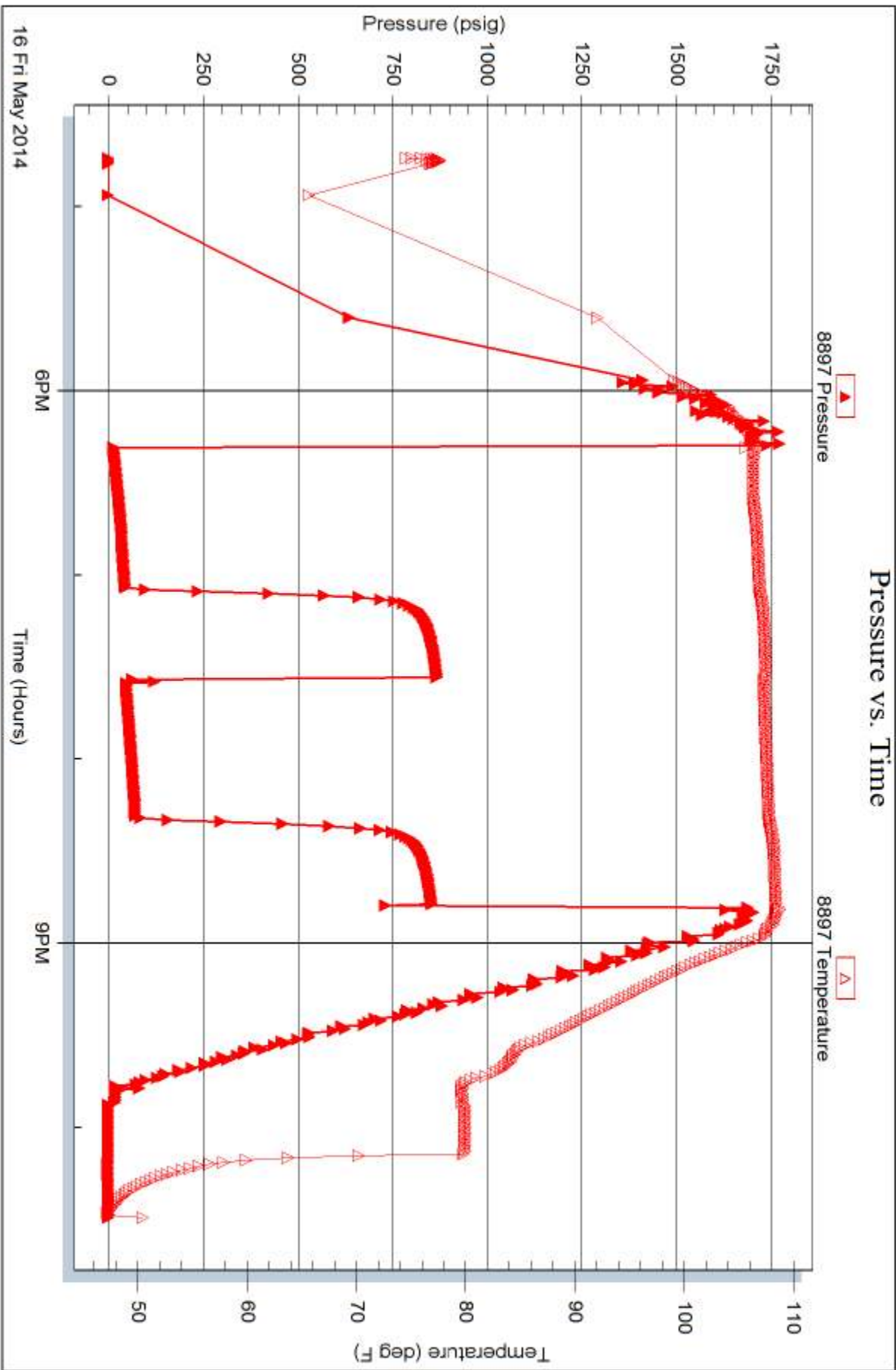
Serial #: 8897

Inside

Baird Oil Company LLC

13-07s-22w Graham,KS

DST Test Number: 1



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