



DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723
Alma NE 68920

ATTN: Bob Peterson

Stice #3

19-7s-19w Rooks,KS

Start Date: 2014.04.22 @ 08:50:00

End Date: 2014.04.22 @ 15:51:15

Job Ticket #: 54122 DST #: 1

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

Printed: 2014.04.24 @ 16:24:59



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bach Oil Production

19-7s-19w Rooks,KS

PO Box 723
Alma NE 68920

Stice #3

Job Ticket: 54122

DST#: 1

ATTN: Bob Peterson

Test Start: 2014.04.22 @ 08:50:00

GENERAL INFORMATION:

Formation: **KC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:47:00

Time Test Ended: 15:51:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3303.00 ft (KB) To 3378.00 ft (KB) (TVD)

Reference Elevations: 1991.00 ft (KB)

Total Depth: 3378.00 ft (KB) (TVD)

1986.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8934 Outside

Press@RunDepth: 71.24 psig @ 3311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.22

End Date: 2014.04.22

Last Calib.: 2014.04.22

Start Time: 08:50:05

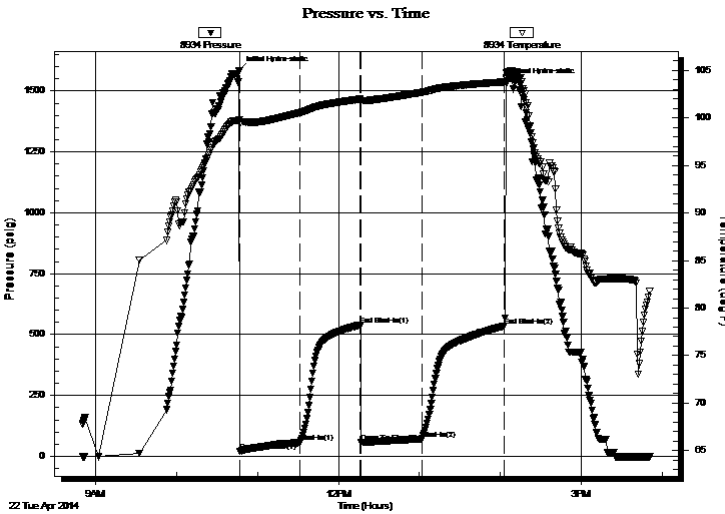
End Time: 15:51:14

Time On Btm: 2014.04.22 @ 10:46:15

Time Off Btm: 2014.04.22 @ 14:04:45

TEST COMMENT: IF-10" blow
IS-No blow
FF-10 1/2" blow
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.72	99.77	Initial Hydro-static
1	19.67	99.40	Open To Flow (1)
45	56.47	100.55	Shut-In(1)
90	540.50	101.96	End Shut-In(1)
91	58.34	101.81	Open To Flow (2)
136	71.24	102.68	Shut-In(2)
197	535.22	103.79	End Shut-In(2)
199	1534.01	104.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	SGOCM 5%G 45%O 50%M	1.02
0.00	50ft GIP	0.00

Gas Rates

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



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TOOL DIAGRAM

Bach Oil Production

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DST#: 1

ATTN: Bob Peterson

Test Start: 2014.04.22 @ 08:50:00

Tool Information

Drill Pipe:	Length: 3208.00 ft	Diameter: 3.80 inches	Volume: 45.00 bbl	Tool Weight: 2500.00 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: 88.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3303.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	103.00 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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Shut In Tool	5.00			3280.00	
Hydraulic tool	5.00			3285.00	
Jars	5.00			3290.00	
Safety Joint	3.00			3293.00	
Packer	5.00			3298.00	28.00 Bottom Of Top Packer
Packer	5.00			3303.00	
Stubb	1.00			3304.00	
Perforations	7.00			3311.00	
Recorder	0.00	8319	Inside	3311.00	
Recorder	0.00	8934	Outside	3311.00	
Change Over Sub	1.00			3312.00	
Drill Pipe	62.00			3374.00	
Change Over Sub	1.00			3375.00	
Bullnose	3.00			3378.00	75.00 Bottom Packers & Anchor

Total Tool Length: 103.00



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FLUID SUMMARY

Bach Oil Production

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PO Box 723
Alma NE 68920

Stice #3

Job Ticket: 54122

DST#: 1

ATTN: Bob Peterson

Test Start: 2014.04.22 @ 08:50:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	SGOCM 5%G 45%O 50%M	1.022
0.00	50ft GIP	0.000

Total Length: 130.00 ft Total Volume: 1.022 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

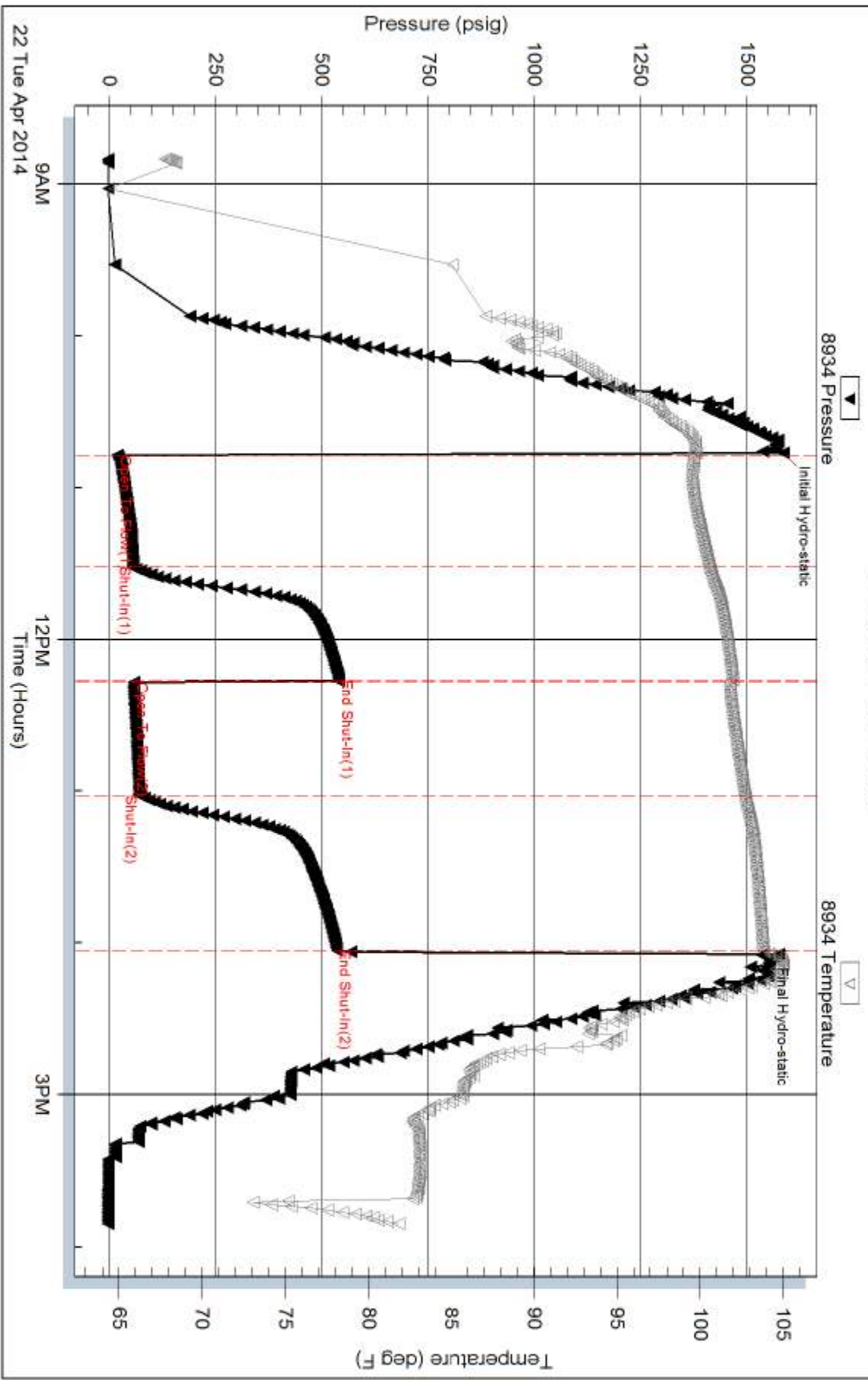
Serial #: 8934

Outside Bach Oil Production

Slice #3

DST Test Number: 1

Pressure vs. Time



Tribble Testing, Inc

Ref. No: 54122

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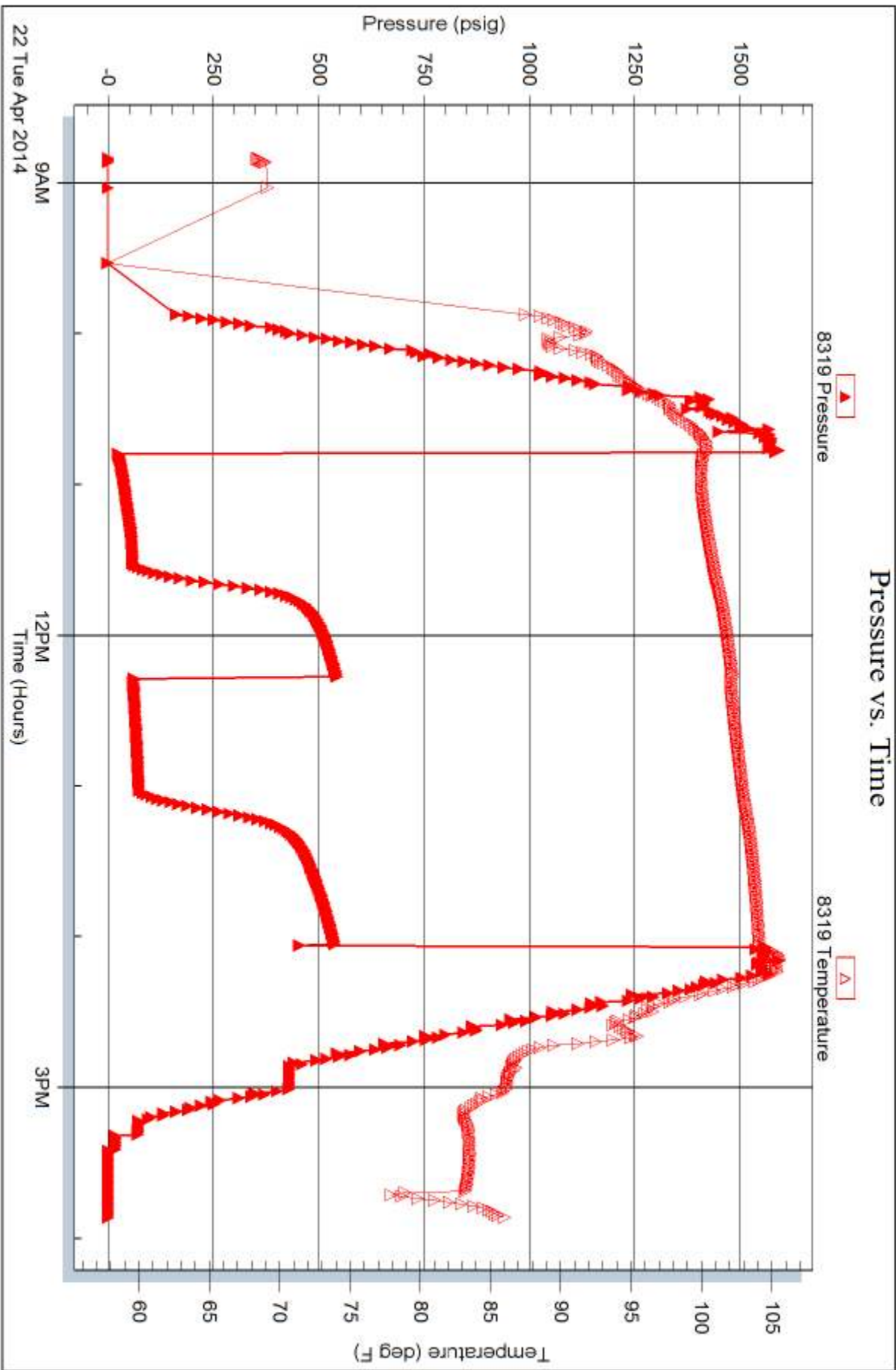
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Inside

Bach Oil Production

Slice #3

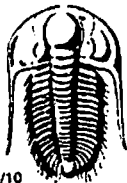
DST Test Number: 1



Tribble Testing, Inc

Ref. No: 54122

Printed: 2014.04.24 @ 16:25:00



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54122

Well Name & No. Stice #3 Test No. 1 Date 4/22/14
 Company Bach Oil Production Elevation 1991 KB 1986 GL
 Address PO Box 723 Alma NE 68920
 Co. Rep / Geo. Bob Peterson Rig Murkin #24
 Location: Sec. 19 Twp. 7 Rge. 19 Co. Reets State KS

Interval Tested 3303-3378 Zone Tested KC" H-5"
 Anchor Length 75 Drill Pipe Run _____ Mud Wt. 8.7
 Top Packer Depth 3298 Drill Collars Run 88 Vis 59
 Bottom Packer Depth 3303 Wt. Pipe Run _____ WL 6
 Total Depth 3378 Chlorides 750 ppm System LCM 2 1/2
 Blow Description RF - 10 in blow
ISI - No blow
FF - 10 1/2 in blow
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>SGOCM</u>	<u>5</u>	<u>45</u>		<u>50</u>
Rec _____	Feet of <u>50 ft GIP</u>	%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 130 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>4,585</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>8:10</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>8:50</u>
(C) First Final Flow <u>56</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:46</u>
(D) Initial Shut-In <u>541</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>14:01</u>
(E) Second Initial Flow <u>58</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>15:50</u>
(F) Second Final Flow <u>71</u>	<input checked="" type="checkbox"/> Mileage <u>118 RT</u> 182.90	Comments _____
(G) Final Shut-In <u>535</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>4,534</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1657.90</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1657.90</u>	

Approved By _____ Our Representative Batt Dr...

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