

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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#2 Bridges 24CD

1,106' FSL & 907' FWL

116' N & 83' W of NE SW SW Section 24-14S-32W

Logan County, Kansas

API# 15-109-21637-0000

Elevation: GL: 2,737', KB: 2,744'

Sample Tops

Anhydrite	2203	541
B/Anhydrite	2222	522
Stotler	3361	-617
Heebner	3729	-985
Toronto	3747	-1003
Lansing	3765	-1021
Muncie	3921	-1177
Stark	4018	-1274
Hushpuckney	4054	-1310
BKC	4089	-1345
Marmaton	4126	-1382
Altamont	4152	-1408
Pawnee	4215	-1471
Myrick	4252	-1508
Ft Scott	4268	-1524
Cherokee	4296	-1552
Johnson	4336	-1592
Morrow	4365	-1621
Mississippian	4418	-1674
RTD	4480	-1736

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0634
 LOCATION Hoxie
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-30-22	4767	Ellis 23 D #4	23	14	32	Lagon

CUSTOMER Ritchie Exploration Inc.
 MAILING ADDRESS 8100 E 22nd St N #700
 CITY Wichita STATE KS ZIP CODE 67276

TRUCK #	DRIVER	TRUCK #	DRIVER
101	Tom W		
102	Jack T		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220' CASING SIZE & WEIGHT 8 5/8" 23 #
 CASING DEPTH 220' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.5 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 12.7 Bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting & set up on stp #1 Circulated mud
Mix 225 st surface blend & displaced with 12.7 Bbls. Start in 1:30 pm
CEMENT did circulate

Thanks Tom & Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL002	1	PUMP CHARGE <u>Surface</u>	\$1150.00	\$1150.00
MO01	68	MILEAGE	\$65.00	\$442.00
MO02	11.03 tons	Ton Mileage Delivery	\$1125.06	\$1125.06
CB004	225 st	Class A 3/4" 29 gal	\$24.00	\$5512.50
			sub total	\$8229.56
			less 10% disc.	\$822.95
			sub total	\$7406.61
			SALES TAX	396.90
			ESTIMATED TOTAL	7803.51

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



TICKET

34149

CHARGE TO: 2. Leche Exploration
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Hayes ks WELL/PROJECT NO. # 2 LEASE Bridges 240s COUNTY/PARISH Logan STATE ks DATE 6-26-22 OWNER
 2. Ness City ks CONTRACTOR STP RIG NAME/NO. _____ ORDER NO. _____
 3. _____ WELL TYPE _____ WELL CATEGORY _____ JOB PURPOSE _____ DELIVERED TO _____
 4. _____ WELL PERMIT NO. _____
 REFERRAL LOCATION _____ INVOICE INSTRUCTIONS development Long Spring WELL LOCATION _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY. U/M			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.		
575					MILEAGE Tax # 111	90	mi		7.50	656.50
578					Ramp Charge - long Spring	1	EA		1600.00	1600.00
290					D-air	2	box		42.00	84.00
281					Mudtush	500	box		2.00	1000.00
221					Liquid Gel	2	can		25.00	50.00
403					Cement Basket	3	EA	5/2	300.00	900.00
404					Forc Collar	1	EA		2500.00	2500.00
406					Latex Drain Plug & Baffle	1	EA		250.00	250.00
407					Insuler Floor Slab w/ Auto Fill	1	EA		350.00	350.00
409					Tuasolizer	8	EA		100.00	800.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? _____
 WE UNDERSTOOD AND MET YOUR NEEDS? _____
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? _____
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? _____
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 8164.50
 TOTAL 15112.00

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR David Ekert APPROVAL _____
 Thank You!



PO Box 466
Ness City KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 34149

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING	TIME	DESCRIPTION	QTY				UNIT PRICE	AMOUNT
					Loc	ACCT	DF	WT		

325				Standard Cement						15.50	3000.00
279				Benlonite Gel					40.50	160.50	
283				SALT					1500 lbs	1.50	2250.00
292				FLYASH 322					150 lbs	9.50	1425.00
272				COAL SEAL					1500 lbs	1.25	1875.00
281										2.00	400.00
283										1.00	963.00

CONTINUATION TOTAL											6948.00
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Customer: Avie Exploration
Order No: Bridges 24th #2
DATE: 6-26-22
PAGE: 2 OF: 3

Service Charge: Cement
Mileage Charge: 274.50
Cubic Feet: 200 SX
Tons Miles: 963
Loaded: 98
Total Amount: 963.00

SWIFT Services, Inc.

JOB LOG

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
<i>Ritchie</i>		<i># 2</i>		<i>Bridges 24CD</i>		<i>long Steery</i>		<i>34149</i>	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	500								<i>On location</i>
									<i>RTO - 4480 LTD - 4476</i>
									<i>TOTAL Pipe - 4472</i>
									<i>Shoe 34 - 21"</i>
									<i>Insert @ 4451</i>
									<i>Centralizers - 1,2,6,11,15,16,53,55</i>
									<i>Baskets - 54, 71, 90</i>
									<i>Port Collar - 54 @ 2200</i>
	530								<i>START Running Csg</i>
	730								<i>Break Circ on Bottom</i>
	815	2	8			0			<i>plug Rat hole - 30 sx</i>
		6	12			350			<i>pump mudflush</i>
		6	20			350			<i>pump 1/2 c spacer</i>
		5	46			350			<i>Mix Cement - 170 sx @ 14.8 ppm</i>
									<i>Drop plug - WASH Pd</i>
	900	7	100			350			<i>START Disp</i>
	915	6	166			900			<i>plug Down @ 1500 psi</i>
									<i>Release Psi - Dry</i>
									 <i>JOB Complete</i>
									 <i>Thanks</i>
									<i>DAVIS, SETH @ Dusty</i>



CHARGE TO: Ritchie Exploration
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 35444

PAGE 1 OF 1

SERVICE LOCATIONS		WELL/PROJECT NO.		LEASE		COUNTY/PARISH		STATE		CITY		DATE		OWNER	
1. <u>Hays, KS</u>		#2		<u>Bridges 24CD</u>		<u>Logan</u>		<u>KS</u>		<u>Logan</u>		<u>06/30/22</u>		<u>Same</u>	
2. <u>Ness City, KS</u>		TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES		CONTRACTOR		RIG NAME NO.		SHIPPED VIA		DELIVERED TO		ORDER NO.			
3.		WELL TYPE		<u>Express Well Service</u>				<u>LT</u>		<u>Location</u>					
4.		<u>D.I.</u>		WELL CATEGORY		JOB PURPOSE		WELL PERMIT NO.		WELL LOCATION					
REFERRAL LOCATION		INVOICE INSTRUCTIONS		<u>Development</u>		<u>Cement Port Collar</u>									

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT	SURVEY		PAGE TOTAL	TOTAL
												OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE		
575		1			MILEAGE #113	98	mi			7.00	684.00			2.00	980.00
576D		1			Pump Charge - Port Collar	1	EA			1600.00	1600.00			1.00	1760.00
24D		1			D-Air	4	gal			42.00	168.00			1.00	1762.00
329-8		2			100/40 Pozmix (80% Gel)	225	sks			13.00	2925.00			2.00	980.00
276		2			Flocele	50	lbs			3.00	150.00			1.00	1762.00
581		2			Service Charge Cement	2	sks			2.00	980.00			2.00	980.00
583		2			Drayage	1762.85	TM			1.00	1762.85			1.00	1762.85
LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.											REMIT PAYMENT TO:				
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.											SWIFT SERVICES, INC.				
											P.O. BOX 466				
											NESS CITY, KS 67560				
											785-798-2300				
DATE SIGNED		TIME SIGNED													

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES. The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: [Signature] APPROVAL: [Signature]

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 10/30/22	PAGE NO. 1
TICKET NO. 35444	

CUSTOMER Ritchie Explorations		WELL NO. #2		LEASE Bridges 2410		JOB TYPE Port Collar		DESCRIPTION OF OPERATION AND MATERIALS	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)			
				T	C	TUBING	CASING		
	1000								On location, set up truck.
									2 3/8 x 5 1/2"
									Port Collar - 2200'
							1200		Test Port Collar - Held
									Open P.C.
		3	5				400		Injection Rate - Blowing
	1030	3 1/2					400	400	Start Water ahead
		3 1/2	3				450	450	Fluid Circulating
		3 1/2	5				450	450	Start Cement
		3 1/2	70				650		Cement Circulating, Raise wt
		3 1/2	80				750		Finish Cement Start Displacement
		3 1/2	7 1/2						Min Disch. shut in.
									Close Port Collar
							1200		Test Port Collar - Held
									Run 5 Jts.
		3 1/2	21 1/2				200		Reverse Out, 2 Flags, Clean
	1130								Washup
									Rack up
	1145								Job Complete
									Thanks
									Jan, Joe, Isaac
									225 sacks total
									30 sacks to Pit.



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Bridges 24CD #2

24-14s-32w Logan,KS

Start Date: 2022.06.18 @ 01:32:00

End Date: 2022.06.18 @ 08:55:45

Job Ticket #: 68114 DST #: 1

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

Printed: 2022.06.28 @ 15:52:22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 68114

DST#: 1

ATTN: Max Lovely

Test Start: 2022.06.18 @ 01:32:00

Tool Information

Drill Pipe:	Length: 3655.00 ft	Diameter: 3.80 inches	Volume: 51.27 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3789.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	51.00 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			3760.00	
Shut In Tool	5.00			3765.00	
Hydraulic tool	5.00			3770.00	
Jars	5.00			3775.00	
EM Tool	3.00			3778.00	
Safety Joint	2.00			3780.00	
Packer	5.00			3785.00	30.00 Bottom Of Top Packer
Packer	4.00			3789.00	
Stubb	1.00			3790.00	
Recorder	0.00	8319	Inside	3790.00	
Recorder	0.00	8874	Outside	3790.00	
Perforations	17.00			3807.00	
Bullnose	3.00			3810.00	21.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 68114

DST#: 1

ATTN: Max Lovely

Test Start: 2022.06.18 @ 01:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

41000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
305.00	mcw 4m 96w (oil spots)	3.185
15.00	oil 100 oil	0.210

Total Length: 320.00 ft Total Volume: 3.395 bbl

Num Fluid Samples: 0

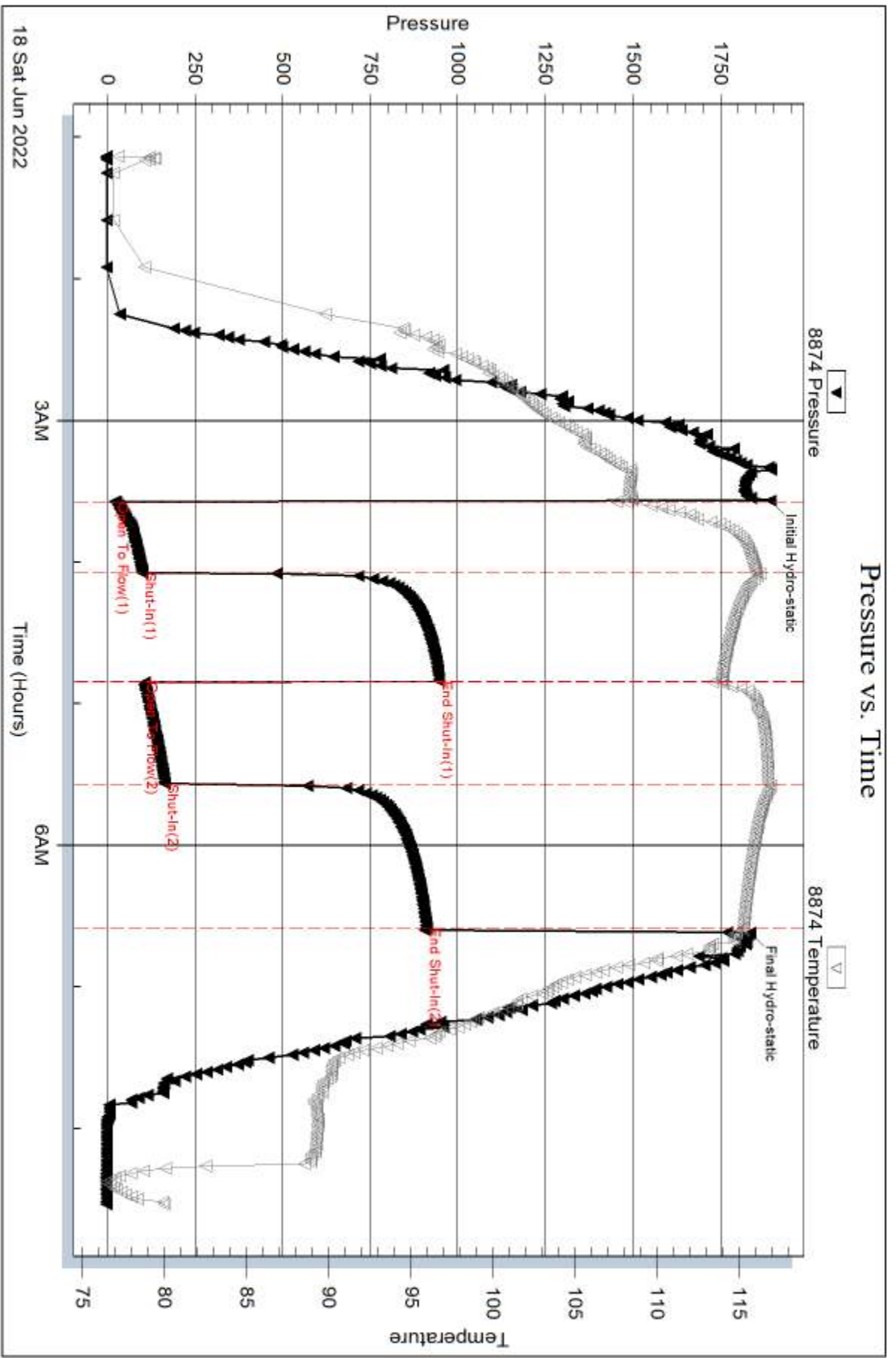
Num Gas Bombs: 0

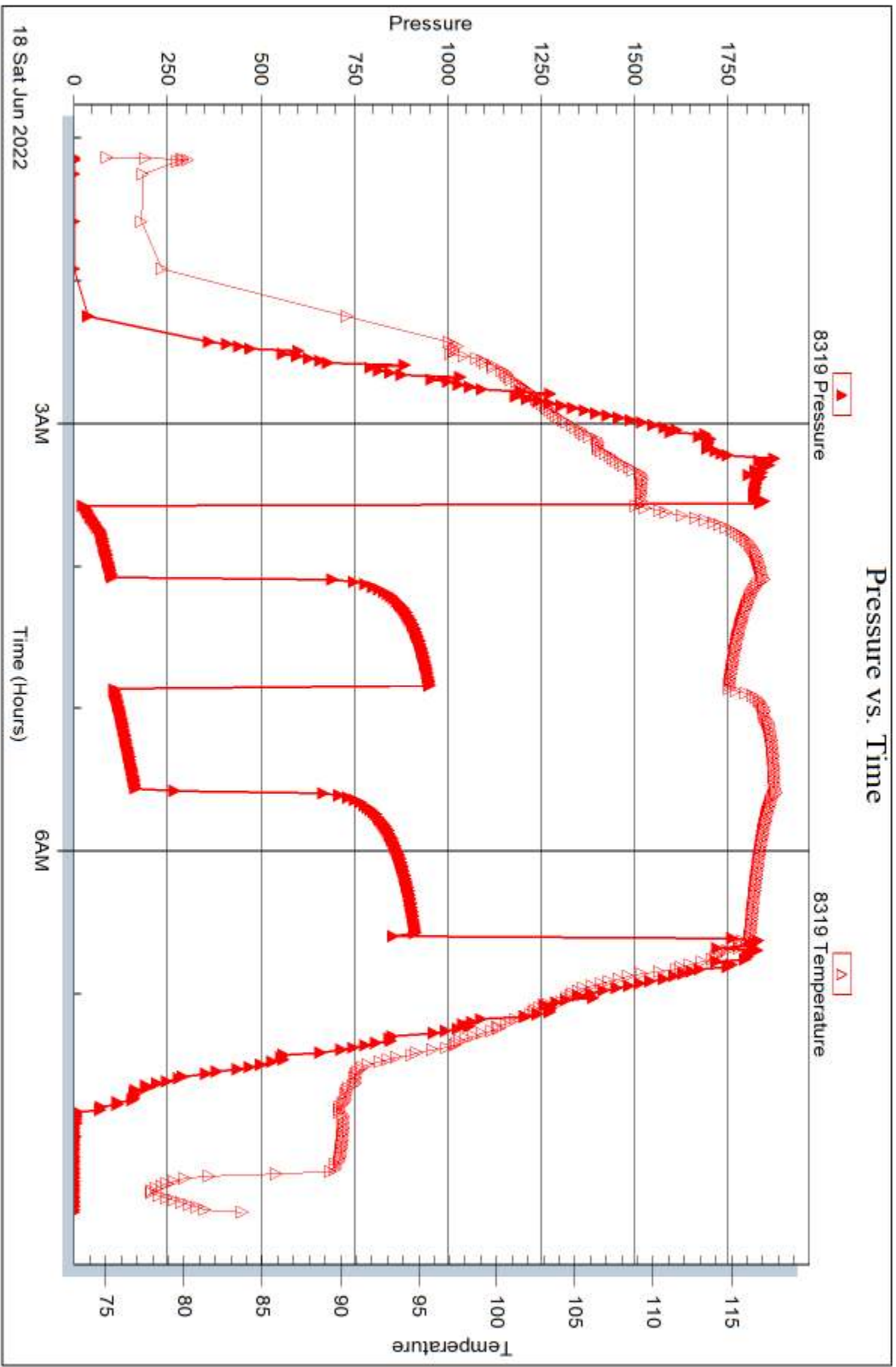
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .152 @ 78F = 41000ppm







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Bridges 24CD #2

24-14s-32w Logan,KS

Start Date: 2022.06.18 @ 15:24:00

End Date: 2022.06.18 @ 22:22:45

Job Ticket #: 68115 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.06.28 @ 15:51:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

24-14s-32w Logan,KS

Bridges 24CD #2

Job Ticket: 68115 **DST#: 2**
Test Start: 2022.06.18 @ 15:24:00

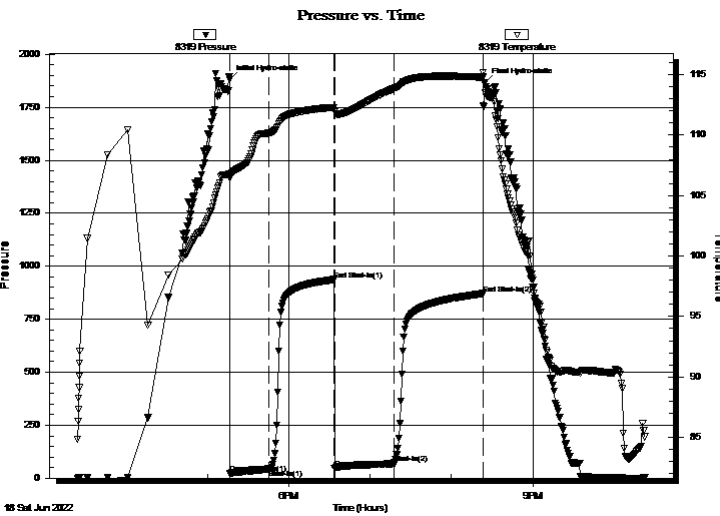
GENERAL INFORMATION:

Formation: **LKC D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:16:30
 Time Test Ended: 22:22:45
 Interval: **3811.00 ft (KB) To 3834.00 ft (KB) (TVD)**
 Total Depth: 3834.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2744.00 ft (KB)
 2737.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8319 Inside

Press@RunDepth: 68.98 psig @ 3812.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.06.18 End Date: 2022.06.18 Last Calib.: 2022.06.18
 Start Time: 15:24:05 End Time: 22:22:44 Time On Btm: 2022.06.18 @ 17:16:15
 Time Off Btm: 2022.06.18 @ 20:24:45

TEST COMMENT: IF: 8 1/2" blow .
 IS: No return.
 FF: 11 3/4" blow .
 FS: No return. 30-45-45-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1881.58	106.80	Initial Hydro-static
1	20.45	106.43	Open To Flow (1)
29	43.68	110.16	Shut-In(1)
77	936.55	112.29	End Shut-In(1)
78	47.58	111.93	Open To Flow (2)
122	68.98	113.85	Shut-In(2)
187	870.77	114.79	End Shut-In(2)
189	1865.45	113.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	gocm 15g 40o 45m	0.25
90.00	go 35g 65o	0.62
0.00	280' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
 PO Box 783188
 Wichita, KS 67278
 ATTN: Max Lovely

24-14s-32w Logan,KS

Bridges 24CD #2

Job Ticket: 68115 **DST#: 2**
 Test Start: 2022.06.18 @ 15:24:00

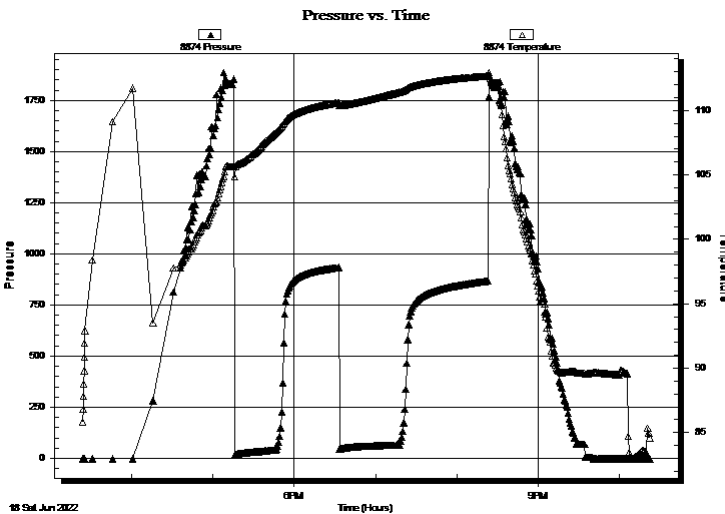
GENERAL INFORMATION:

Formation: **LKC D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:16:30
 Time Test Ended: 22:22:45
 Interval: **3811.00 ft (KB) To 3834.00 ft (KB) (TVD)**
 Total Depth: 3834.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2744.00 ft (KB)
 2737.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8874 Outside
 Press@RunDepth: psig @ 3812.00 ft (KB)
 Start Date: 2022.06.18 End Date: 2022.06.18
 Start Time: 15:24:05 End Time: 22:22:44
 Capacity: 8000.00 psig
 Last Calib.: 2022.06.18
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 8 1/2" blow .
 IS: No return.
 FF: 11 3/4" blow .
 FS: No return. 30-45-45-60

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
50.00	gocm 15g 40o 45m	0.25
90.00	go 35g 65o	0.62
0.00	280' GIP	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

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 68115

DST#: 2

ATTN: Max Lovely

Test Start: 2022.06.18 @ 15:24:00

Tool Information

Drill Pipe:	Length: 3688.00 ft	Diameter: 3.80 inches	Volume: 51.73 bbl	Tool Weight:	2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 52.32 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	57000.00 lb
Depth to Top Packer:	3811.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 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			3782.00	
Shut In Tool	5.00			3787.00	
Hydraulic tool	5.00			3792.00	
Jars	5.00			3797.00	
EM Tool	3.00			3800.00	
Safety Joint	2.00			3802.00	
Packer	5.00			3807.00	30.00 Bottom Of Top Packer
Packer	4.00			3811.00	
Stubb	1.00			3812.00	
Recorder	0.00	8319	Inside	3812.00	
Recorder	0.00	8874	Outside	3812.00	
Perforations	19.00			3831.00	
Bullnose	3.00			3834.00	23.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 68115

DST#: 2

ATTN: Max Lovely

Test Start: 2022.06.18 @ 15:24:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	gocm 15g 40o 45m	0.246
90.00	go 35g 65o	0.625
0.00	280' GIP	0.000

Total Length: 140.00 ft Total Volume: 0.871 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

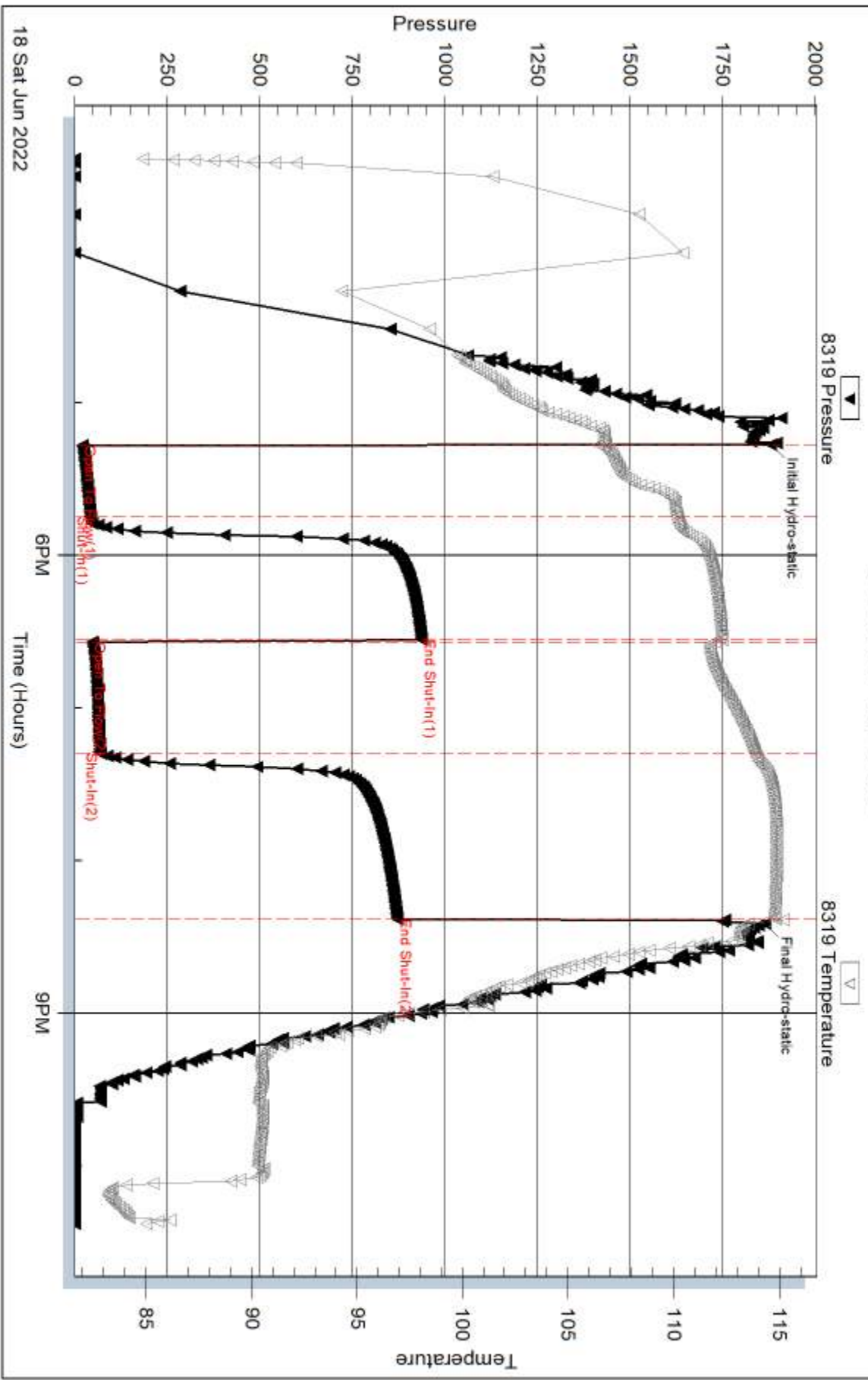
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

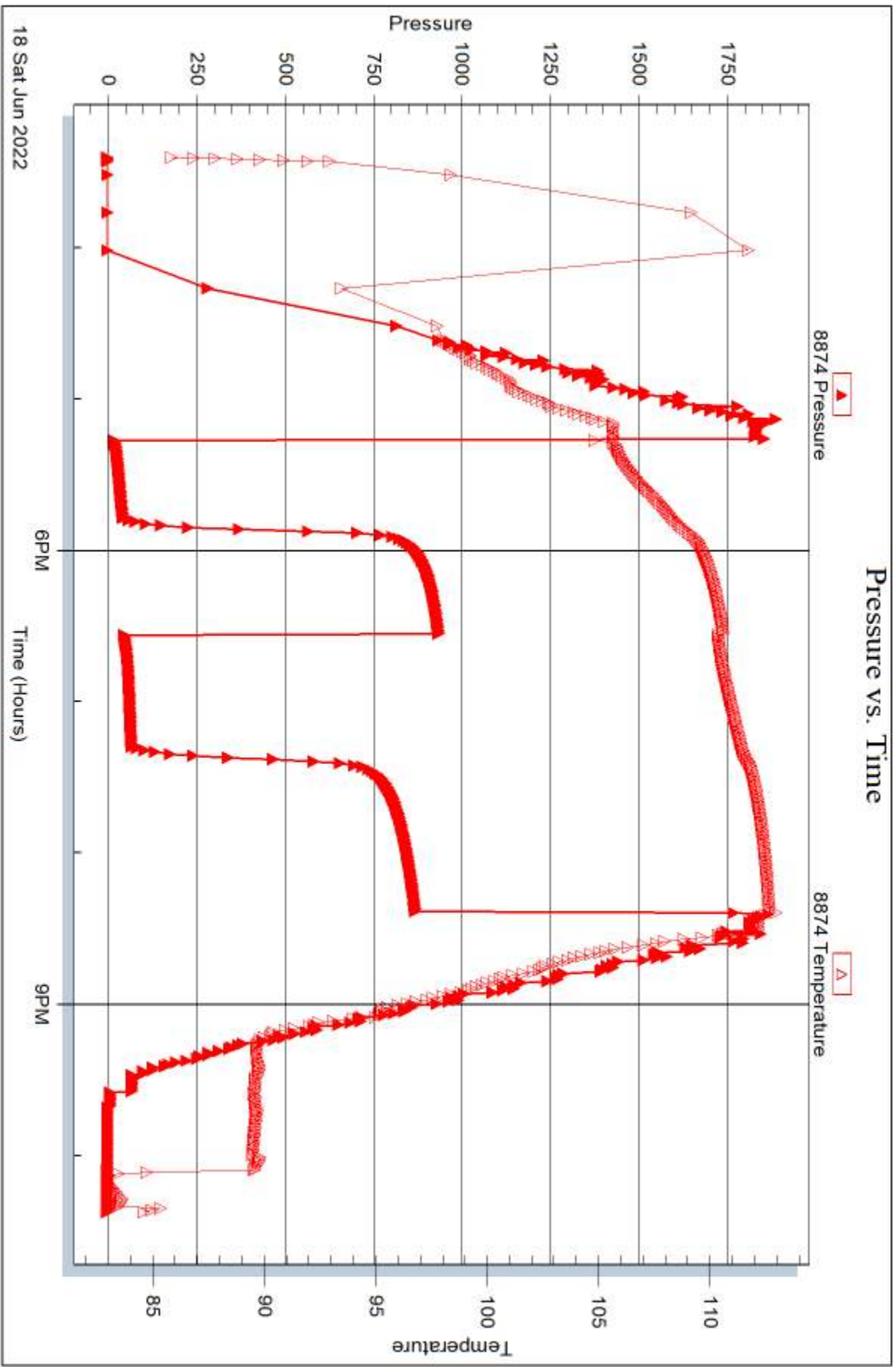


Serial #: 8874

Outside Ritchie Exploration

Bridges 2400 #2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 68115

Printed: 2022.06.28 @ 15:51:55



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Bridges 24CD #2

24-14s-32w Logan,KS

Start Date: 2022.06.19 @ 06:10:00

End Date: 2022.06.19 @ 11:49:39

Job Ticket #: 67940 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.06.28 @ 15:51:21

Ritchie Exploration
24-14s-32w Logan,KS
Bridges 24CD #2
DST # 3
LKC " E & F "
2022.06.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

24-14s-32w Logan,KS

Bridges 24CD #2

Job Ticket: 67940

DST#: 3

Test Start: 2022.06.19 @ 06:10:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:12:00

Time Test Ended: 11:49:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 81

Interval: 3840.00 ft (KB) To 3866.00 ft (KB) (TVD)

Total Depth: 3866.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2744.00 ft (KB)

2737.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8734 Outside

Press@RunDepth: 31.82 psig @ 3841.00 ft (KB)

Start Date: 2022.06.19

End Date:

2022.06.19

Start Time: 06:10:01

End Time:

11:49:40

Capacity: 8000.00 psig

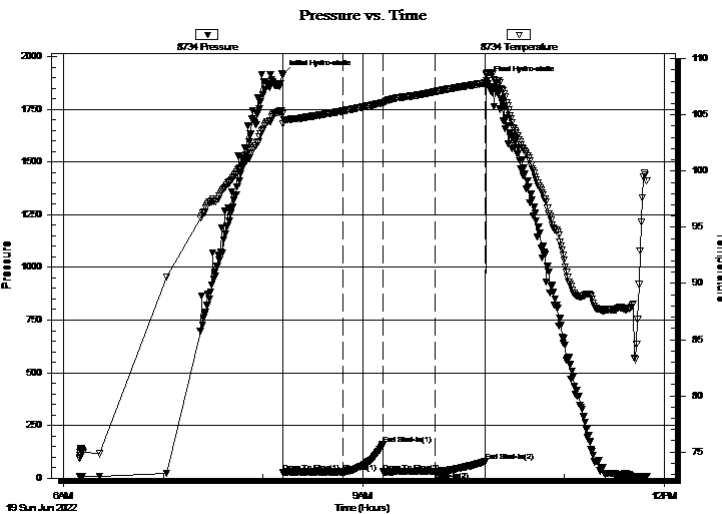
Last Calib.: 2022.06.19

Time On Btm: 2022.06.19 @ 08:11:50

Time Off Btm: 2022.06.19 @ 10:13:50

TEST COMMENT: 30-IF-Weak surface blow dead @ 14 mins
30-ISI-No return
30-FF-No blow
30-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.25	105.10	Initial Hydro-static
1	25.57	104.21	Open To Flow (1)
36	29.26	105.34	Shut-In(1)
60	160.27	106.09	End Shut-In(1)
60	29.96	106.03	Open To Flow (2)
92	31.82	107.07	Shut-In(2)
121	79.05	107.84	End Shut-In(2)
122	1886.83	108.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	OSM 2%O, 98%M	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Ritchie Exploration
 PO Box 783188
 Wichita, KS 67278
 ATTN: Max Lovely

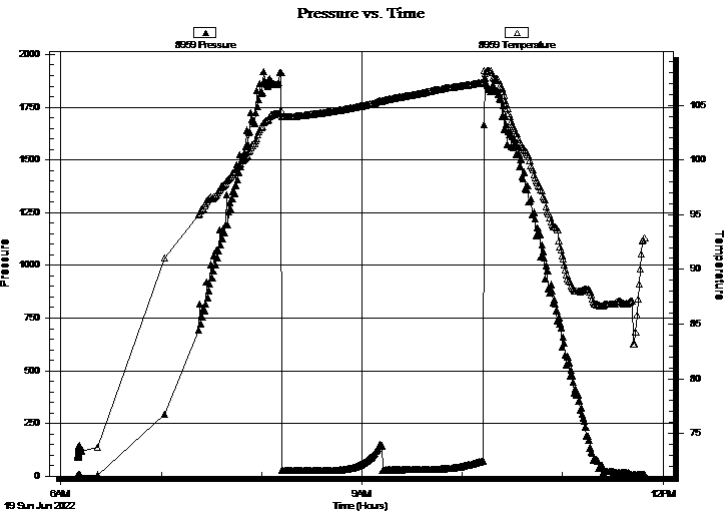
24-14s-32w Logan,KS
Bridges 24CD #2
 Job Ticket: 67940 **DST#: 3**
 Test Start: 2022.06.19 @ 06:10:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:12:00
 Time Test Ended: 11:49:39
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 81
 Interval: **3840.00 ft (KB) To 3866.00 ft (KB) (TVD)**
 Total Depth: 3866.00 ft (KB) (TVD)
 Reference Elevations: 2744.00 ft (KB)
 2737.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 7.00 ft

Serial #: 8959 Inside
 Press@RunDepth: psig @ 3841.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.06.19 End Date: 2022.06.19 Last Calib.: 2022.06.19
 Start Time: 06:10:01 End Time: 11:49:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Weak surface blow dead @ 14 mins
 30-ISI-No return
 30-FF-No blow
 30-FSI-No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
3.00	OSM 2%O, 98%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

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 67940

DST#: 3

ATTN: Max Lovely

Test Start: 2022.06.19 @ 06:10:00

Tool Information

Drill Pipe:	Length: 3722.00 ft	Diameter: 3.80 inches	Volume: 52.21 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 52.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3840.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	59.00 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			3808.00	
Shut In Tool	5.00			3813.00	
Hydraulic tool	5.00	1113		3818.00	
Jars	5.00	01-07		3823.00	
EM Tool	5.00			3828.00	
Safety Joint	3.00	-001		3831.00	
Packer	5.00			3836.00	33.00 Bottom Of Top Packer
Packer	4.00			3840.00	
Stubb	1.00			3841.00	
Recorder	0.00	8959	Inside	3841.00	
Recorder	0.00	8734	Outside	3841.00	
Perforations	20.00			3861.00	
Bullnose	5.00			3866.00	26.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 67940

DST#: 3

ATTN: Max Lovely

Test Start: 2022.06.19 @ 06:10:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	OSM 2%O, 98%M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

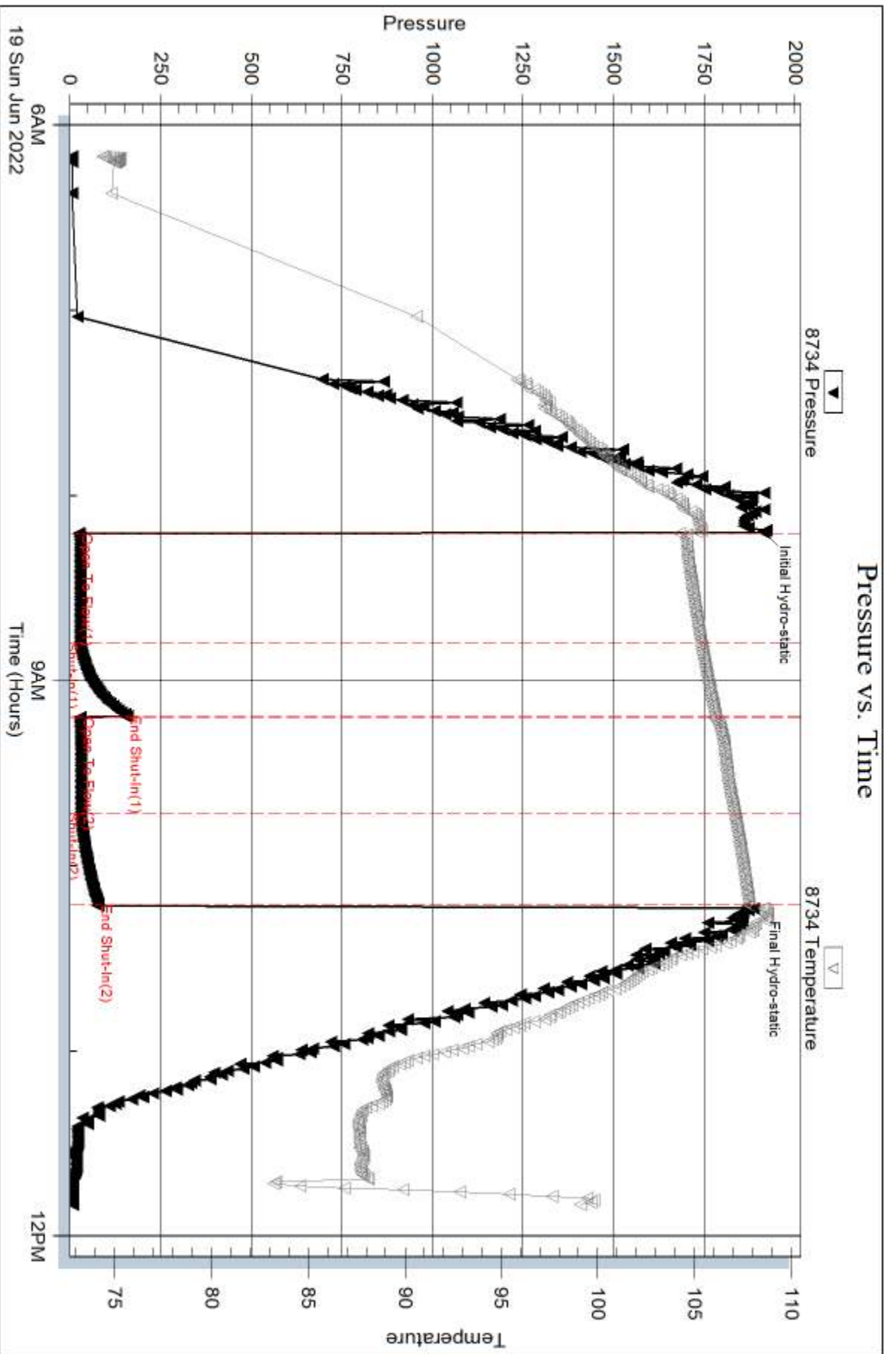
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



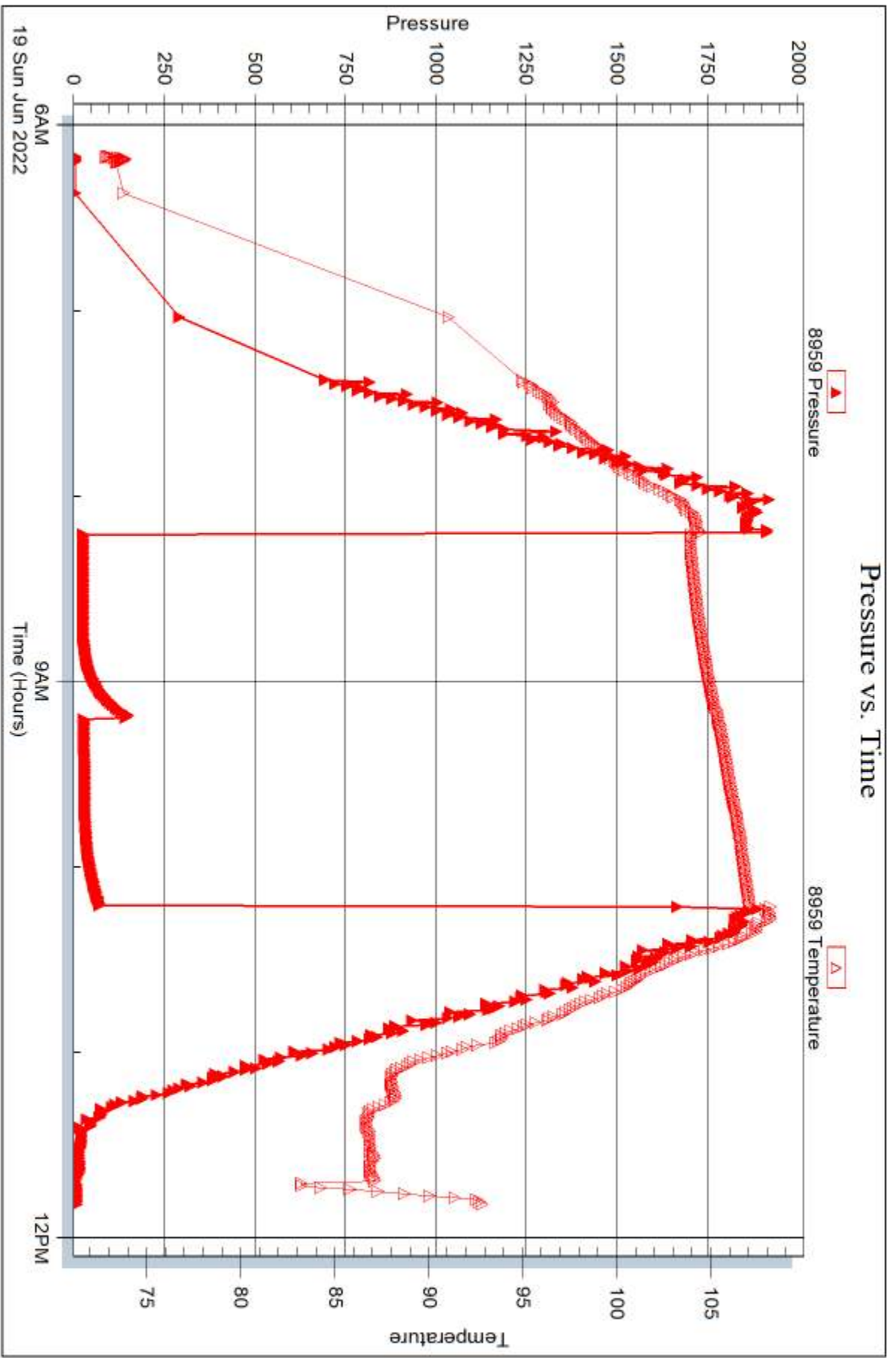
Serial #: 8959

Inside

Richie Exploration

Bridges 24CD #2

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 67940

Printed: 2022.06.28 @ 15:51:23



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Bridges 24CD #2

24-14s-32w Logan,KS

Start Date: 2022.06.20 @ 01:51:00

End Date: 2022.06.20 @ 08:22:30

Job Ticket #: DST #: 4

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

Printed: 2022.06.28 @ 15:50:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

24-14s-32w Logan,KS

Bridges 24CD #2

Job Ticket: **DST#: 4**

Test Start: 2022.06.20 @ 01:51:00

GENERAL INFORMATION:

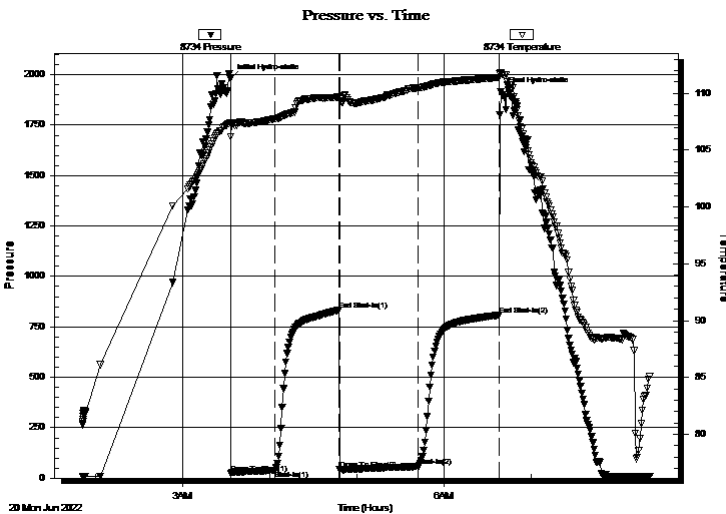
Formation: **LKC "H & I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:33:00
 Time Test Ended: 08:22:30
 Interval: **3919.00 ft (KB) To 3980.00 ft (KB) (TVD)**
 Total Depth: 3980.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 81
 Reference Elevations: 2744.00 ft (KB)
 2737.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8734 Outside

Press@RunDepth: 57.22 psig @ 3920.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.06.20 End Date: 2022.06.20 Last Calib.: 2022.06.20
 Start Time: 01:51:01 End Time: 08:22:30 Time On Btm: 2022.06.20 @ 03:32:50
 Time Off Btm: 2022.06.20 @ 06:39:20

TEST COMMENT: 30-IF- Blow built to 1"
 45-ISI-No return
 45-FF-Blow built to 3/4"
 60-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.80	107.43	Initial Hydro-static
1	23.11	106.19	Open To Flow (1)
31	39.82	107.74	Shut-In(1)
75	834.05	109.69	End Shut-In(1)
76	41.79	109.34	Open To Flow (2)
130	57.22	110.47	Shut-In(2)
186	807.94	111.39	End Shut-In(2)
187	1916.46	111.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
59.00	OSM 3%O, 97%M	0.29
1.00	CO 100%O	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

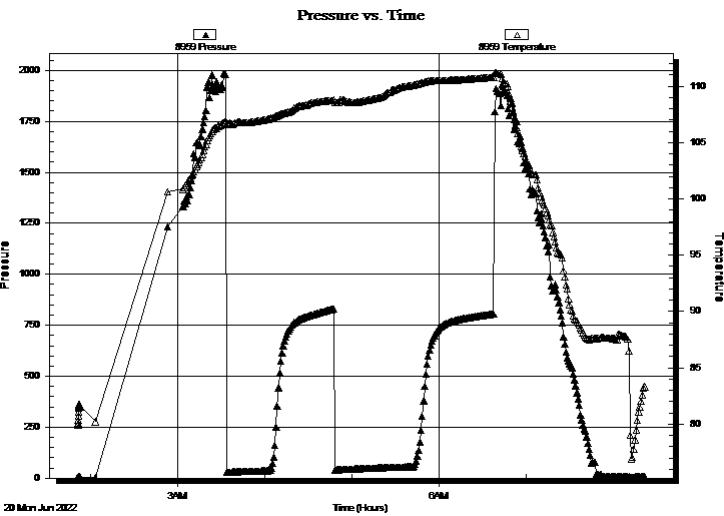
24-14s-32w Logan, KS
Bridges 24CD #2
Job Ticket: **DST#: 4**
Test Start: 2022.06.20 @ 01:51:00

GENERAL INFORMATION:

Formation: **LKC "H & I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:33:00
Time Test Ended: 08:22:30
Interval: **3919.00 ft (KB) To 3980.00 ft (KB) (TVD)**
Total Depth: 3980.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 81
Reference Elevations: 2744.00 ft (KB)
2737.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8959 **Inside**
Press@RunDepth: psig @ 3920.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.06.20 End Date: 2022.06.20 Last Calib.: 2022.06.20
Start Time: 01:51:01 End Time: 08:22:30 Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF- Blow built to 1"
45-ISI-No return
45-FF-Blow built to 3/4"
60-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
59.00	OSM 3%O, 97%M	0.29
1.00	CO 100%O	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

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket:

DST#: 4

ATTN: Max Lovely

Test Start: 2022.06.20 @ 01:51:00

Tool Information

Drill Pipe:	Length: 3784.00 ft	Diameter: 3.80 inches	Volume: 53.08 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3919.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	94.00 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			3887.00	
Shut In Tool	5.00			3892.00	
Hydraulic tool	5.00	1113		3897.00	
Jars	5.00	01-07		3902.00	
EM Tool	5.00			3907.00	
Safety Joint	3.00	-001		3910.00	
Packer	5.00			3915.00	33.00 Bottom Of Top Packer
Packer	4.00			3919.00	
Stubb	1.00			3920.00	
Recorder	0.00	8959	Inside	3920.00	
Recorder	0.00	8734	Outside	3920.00	
Perforations	21.00			3941.00	
Change Over Sub	1.00			3942.00	
Drill Pipe	32.00			3974.00	
Change Over Sub	1.00			3975.00	
Bullnose	5.00			3980.00	61.00 Bottom Packers & Anchor
Total Tool Length:	94.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: **DST#: 4**

ATTN: Max Lovely

Test Start: 2022.06.20 @ 01:51:00

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: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
59.00	OSM 3%O, 97%M	0.290
1.00	CO 100%O	0.005

Total Length: 60.00 ft Total Volume: 0.295 bbl

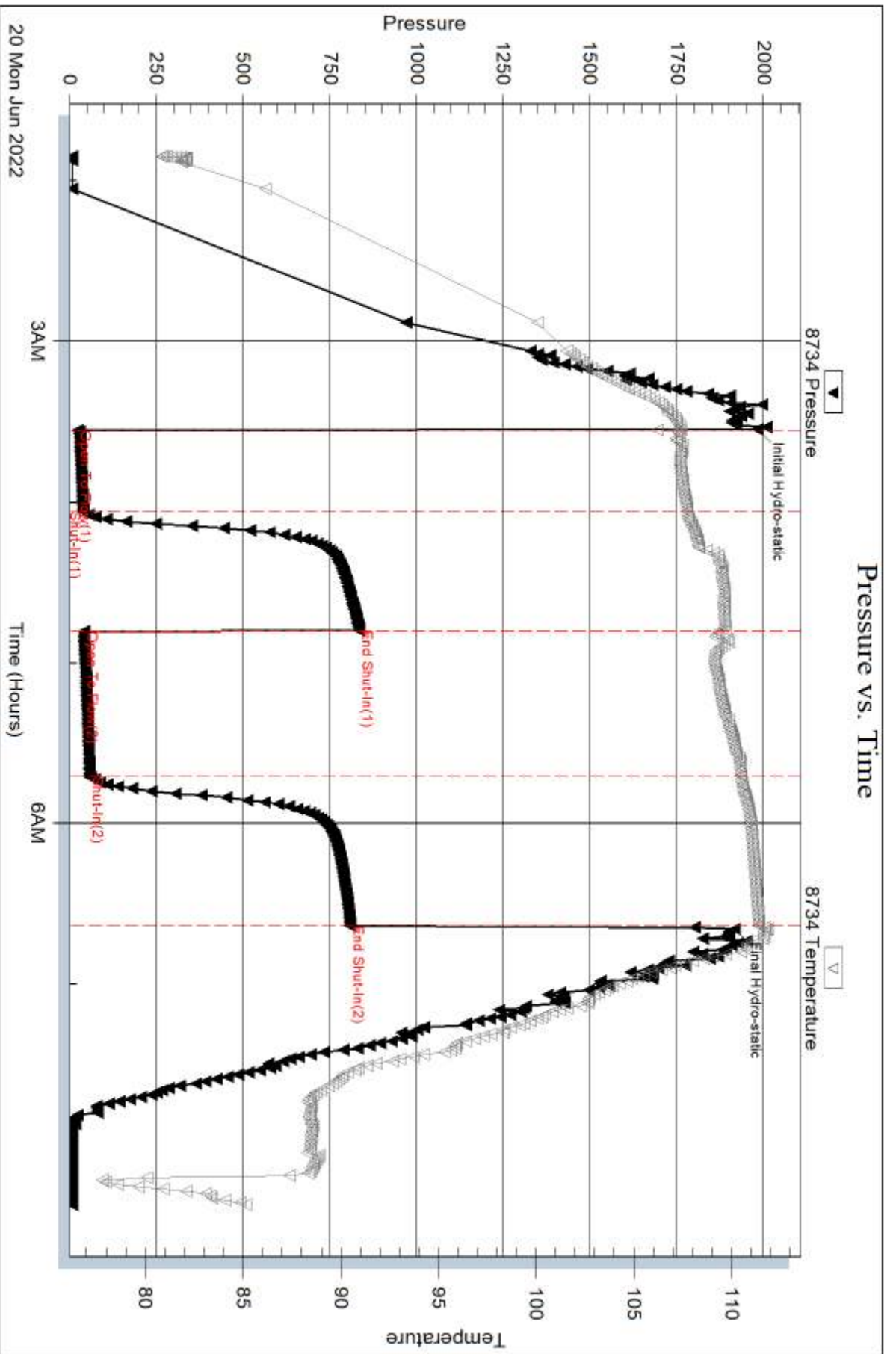
Num Fluid Samples: 0

Num Gas Bombs: 0 Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



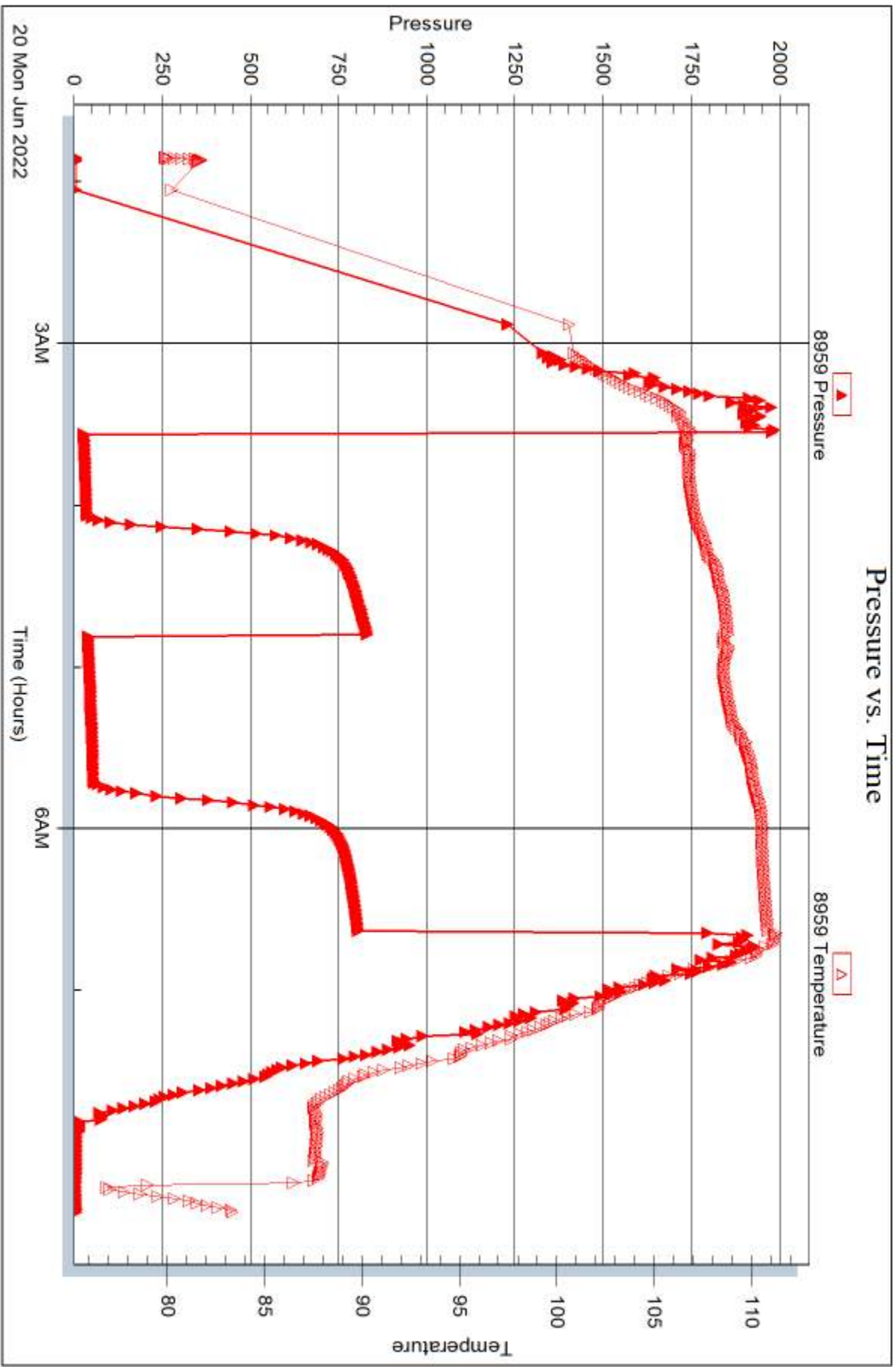
Serial #: 8959

Inside

Richie Exploration

Bridges 24CD #2

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Bridges 24CD #2

24-14s-32w Logan,KS

Start Date: 2022.06.20 @ 16:07:00

End Date: 2022.06.20 @ 22:43:09

Job Ticket #: 657942 DST #: 5

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

Printed: 2022.06.28 @ 13:50:02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Ritchie Exploration
 PO Box 783188
 Wichita, KS 67278
 ATTN: Max Lovely

24-14s-32w Logan,KS

Bridges 24CD #2

Job Ticket: 657942 **DST#: 5**
 Test Start: 2022.06.20 @ 16:07:00

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:55:00
 Time Test Ended: 22:43:09
 Interval: **3990.00 ft (KB) To 4010.00 ft (KB) (TVD)**
 Total Depth: 4010.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 81
 Reference Elevations: 2744.00 ft (KB)
 2737.00 ft (CF)
 KB to GR/CF: 7.00 ft

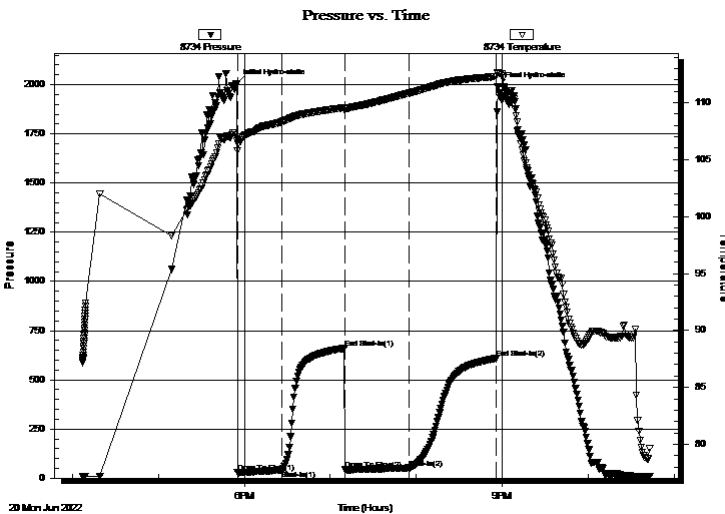
Serial #: 8734

Outside

Press@RunDepth: 51.34 psig @ 3991.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.06.20 End Date: 2022.06.20 Last Calib.: 2022.06.20
 Start Time: 16:07:01 End Time: 22:43:10 Time On Btm: 2022.06.20 @ 17:54:50
 Time Off Btm: 2022.06.20 @ 20:57:00

TEST COMMENT: 30-IF-Blow built to 1 1/4"
 45-ISI-No return
 45-FF-Blow built to 1 1/4"
 60-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2005.48	106.66	Initial Hydro-static
1	28.11	105.80	Open To Flow (1)
31	39.26	108.30	Shut-In(1)
75	660.28	109.56	End Shut-In(1)
76	43.05	109.29	Open To Flow (2)
121	51.34	110.82	Shut-In(2)
181	608.08	112.27	End Shut-In(2)
183	1991.11	112.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	HOCM 30%O, 70%M	0.15
30.00	CGO 12%G, 88%O	0.15

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 657942

DST#: 5

ATTN: Max Lovely

Test Start: 2022.06.20 @ 16:07:00

Tool Information

Drill Pipe:	Length: 3848.00 ft	Diameter: 3.80 inches	Volume: 53.98 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 54.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3990.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 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			3958.00	
Shut In Tool	5.00			3963.00	
Hydraulic tool	5.00	1113		3968.00	
Jars	5.00	01-07		3973.00	
EM Tool	5.00			3978.00	
Safety Joint	3.00	-001		3981.00	
Packer	5.00			3986.00	33.00 Bottom Of Top Packer
Packer	4.00			3990.00	
Stubb	1.00			3991.00	
Recorder	0.00	8959	Inside	3991.00	
Recorder	0.00	8734	Outside	3991.00	
Perforations	14.00			4005.00	
Bullnose	5.00			4010.00	20.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 657942

DST#: 5

ATTN: Max Lovely

Test Start: 2022.06.20 @ 16:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36.1 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 8.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	HOCM 30%O, 70%M	0.148
30.00	CGO 12%G, 88%O	0.148

Total Length: 60.00 ft Total Volume: 0.296 bbl

Num Fluid Samples: 0

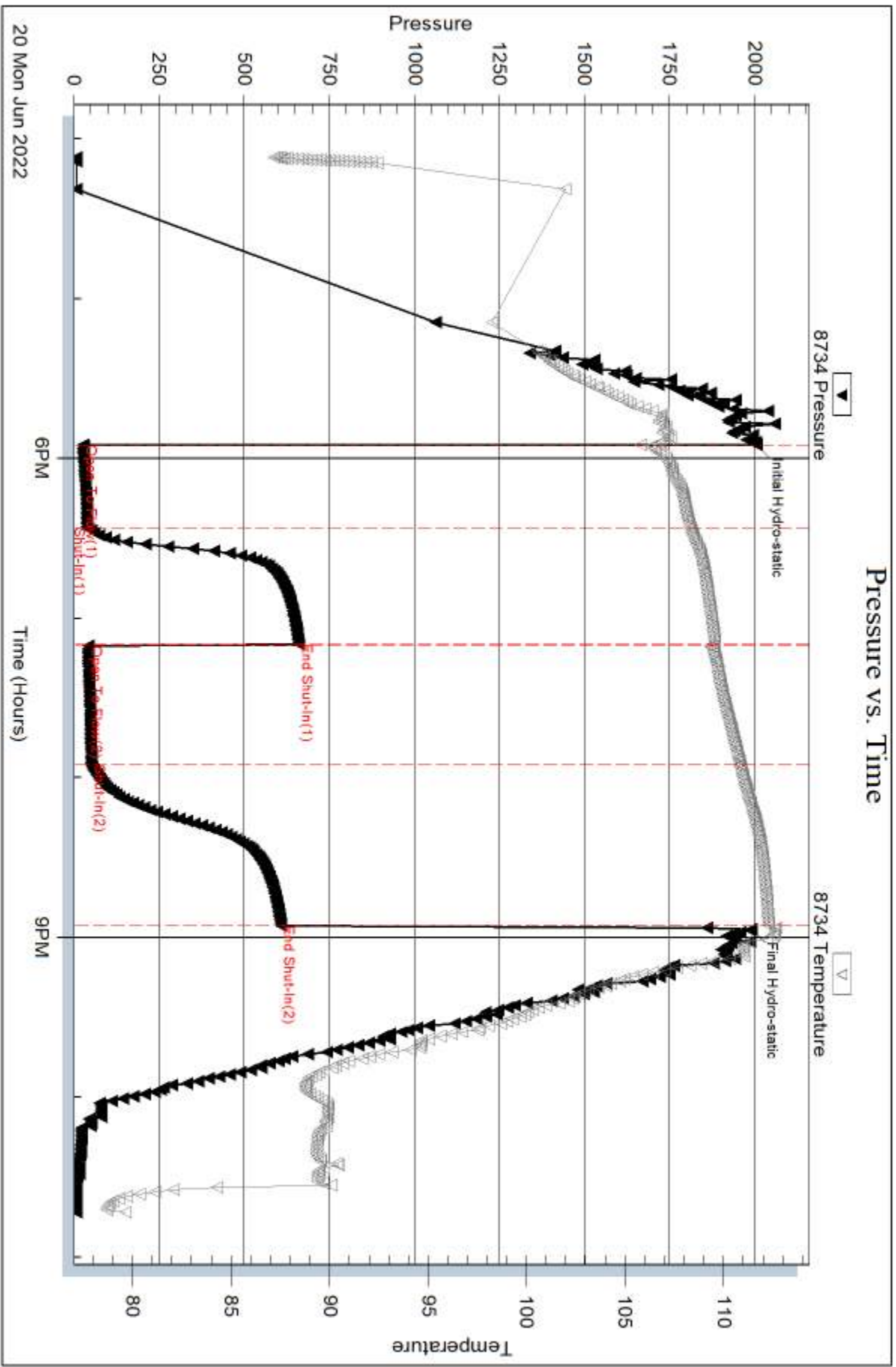
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 38.5 @ 84 degs corrected to 36.1 @ 60 degs



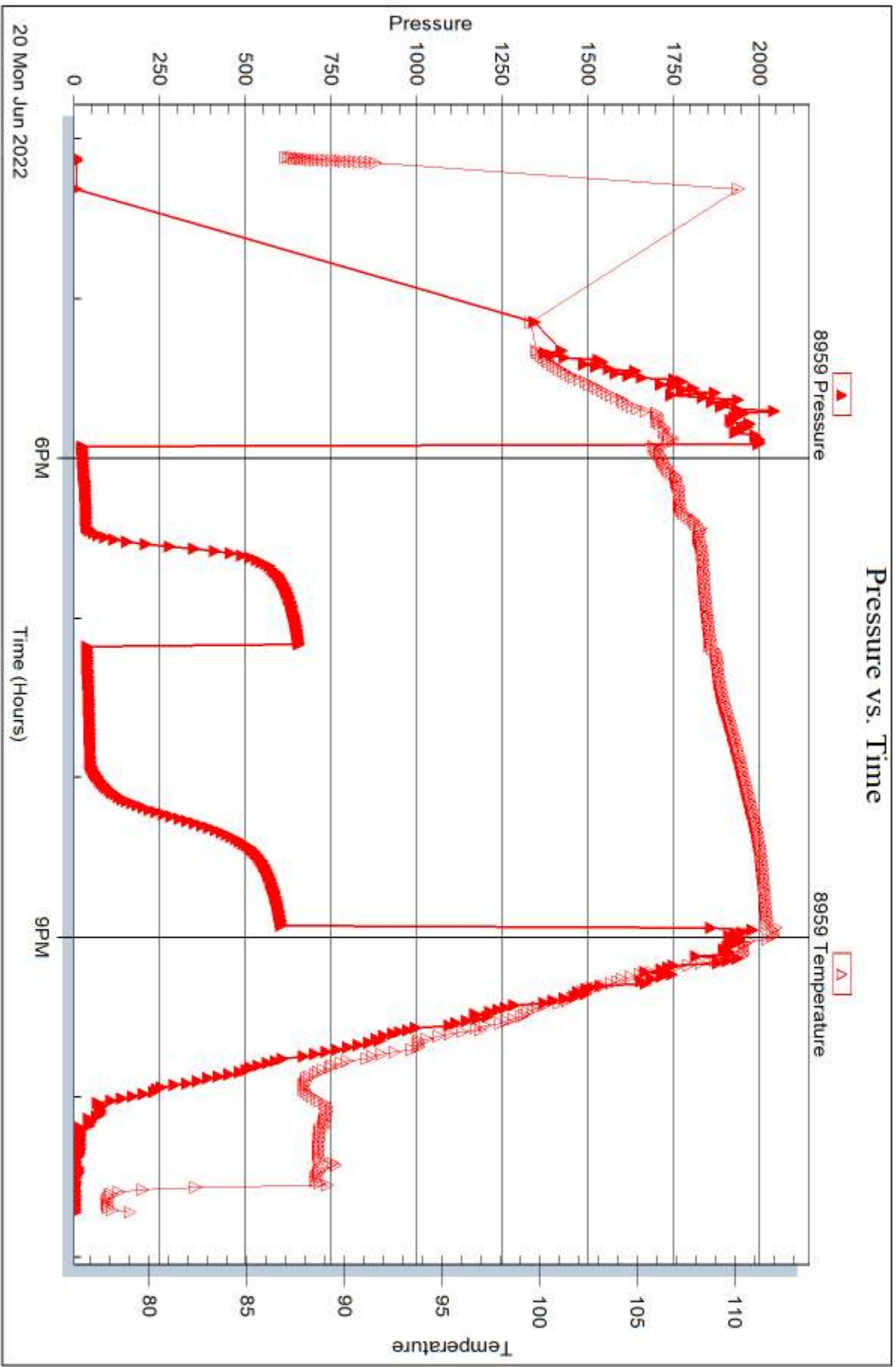
Serial #: 8959

Inside

Richie Exploration

Bridges 240D #2

DST Test Number: 5



TriLobite Testing, Inc

Ref. No: 657942

Printed: 2022.06.28 @ 13:50:03



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Bridges 24CD #2

24-14s-32w Logan,KS

Start Date: 2022.06.22 @ 09:12:00

End Date: 2022.06.22 @ 13:40:09

Job Ticket #: 67943 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.06.28 @ 13:46:15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 67943

DST#: 6

ATTN: Max Lovely

Test Start: 2022.06.22 @ 09:12:00

Tool Information

Drill Pipe:	Length: 4133.00 ft	Diameter: 3.80 inches	Volume: 57.98 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 58.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4258.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	65.00 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			4226.00	
Shut In Tool	5.00			4231.00	
Hydraulic tool	5.00	1113		4236.00	
Jars	5.00	01-07		4241.00	
EM Tool	5.00			4246.00	
Safety Joint	3.00	-001		4249.00	
Packer	5.00			4254.00	33.00 Bottom Of Top Packer
Packer	4.00			4258.00	
Stubb	1.00			4259.00	
Recorder	0.00	8959	Inside	4259.00	
Recorder	0.00	8734	Outside	4259.00	
Perforations	26.00			4285.00	
Bullnose	5.00			4290.00	32.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 67943

DST#: 6

ATTN: Max Lovely

Test Start: 2022.06.22 @ 09:12:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	OSM 2%O, 98%M	0.025
0.00	Heavy oil in tool	0.000

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

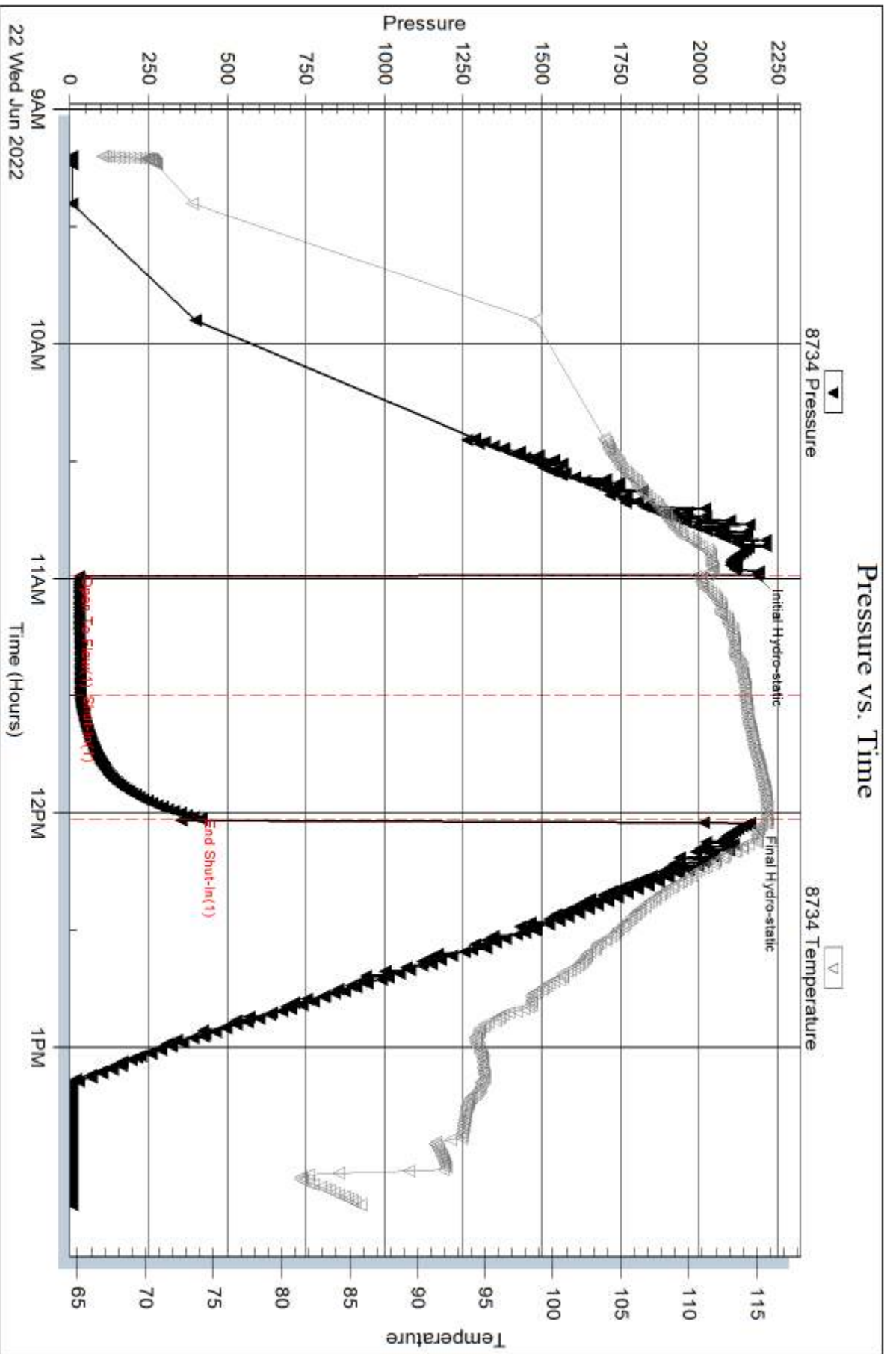
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



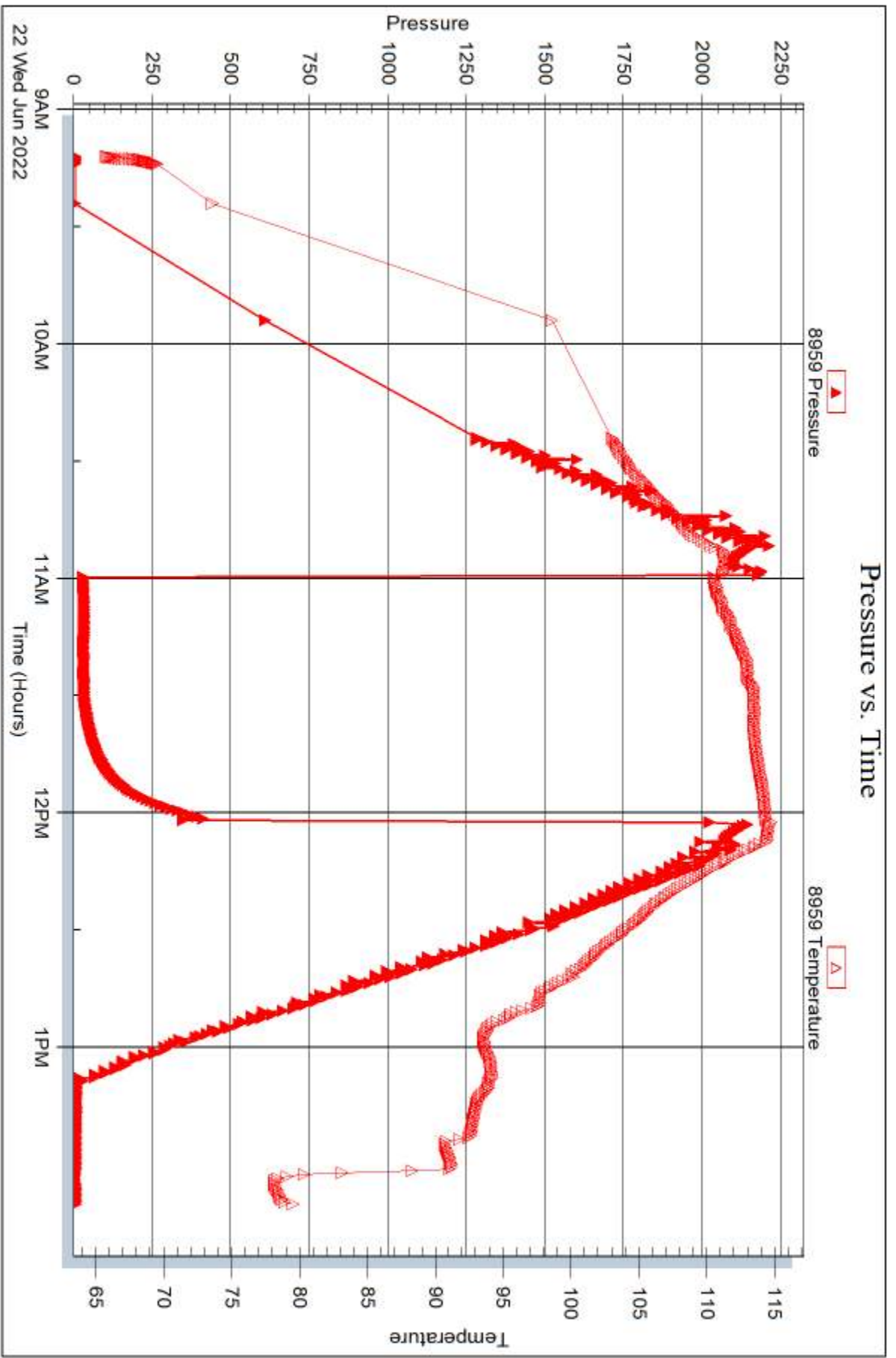
Serial #: 8959

Inside

Ritche Exploration

Bridges 24CD #2

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Bridges 24CD #2

24-14s-32w Logan,KS

Start Date: 2022.06.22 @ 19:38:44

End Date: 2022.06.23 @ 01:22:59

Job Ticket #: 68116 DST #: 7

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

Printed: 2022.06.28 @ 11:06:53



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 68116

DST#: 7

ATTN: Max Lovely

Test Start: 2022.06.22 @ 19:38:44

Tool Information

Drill Pipe:	Length: 4195.00 ft	Diameter: 3.80 inches	Volume: 58.84 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4334.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	46.00 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			4305.00	
Shut In Tool	5.00			4310.00	
Hydraulic tool	5.00			4315.00	
Jars	5.00			4320.00	
EM Tool	3.00			4323.00	
Safety Joint	2.00			4325.00	
Packer	5.00			4330.00	30.00 Bottom Of Top Packer
Packer	4.00			4334.00	
Stubb	1.00			4335.00	
Recorder	0.00	8319	Inside	4335.00	
Recorder	0.00	8874	Outside	4335.00	
Perforations	12.00			4347.00	
Bullnose	3.00			4350.00	16.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 68116

DST#: 7

ATTN: Max Lovely

Test Start: 2022.06.22 @ 19:38:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100m (oil spots)	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

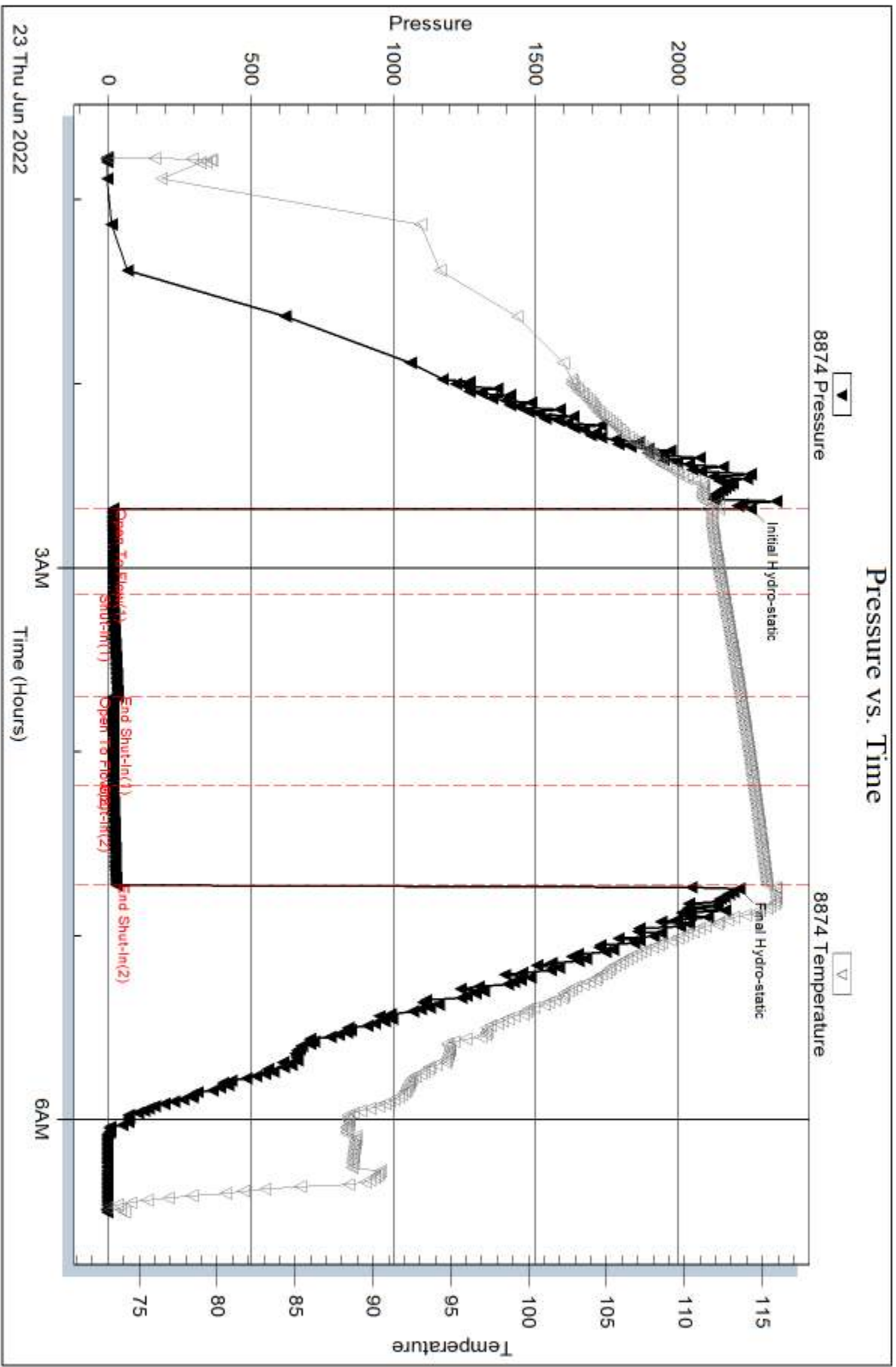
Num Gas Bombs: 0

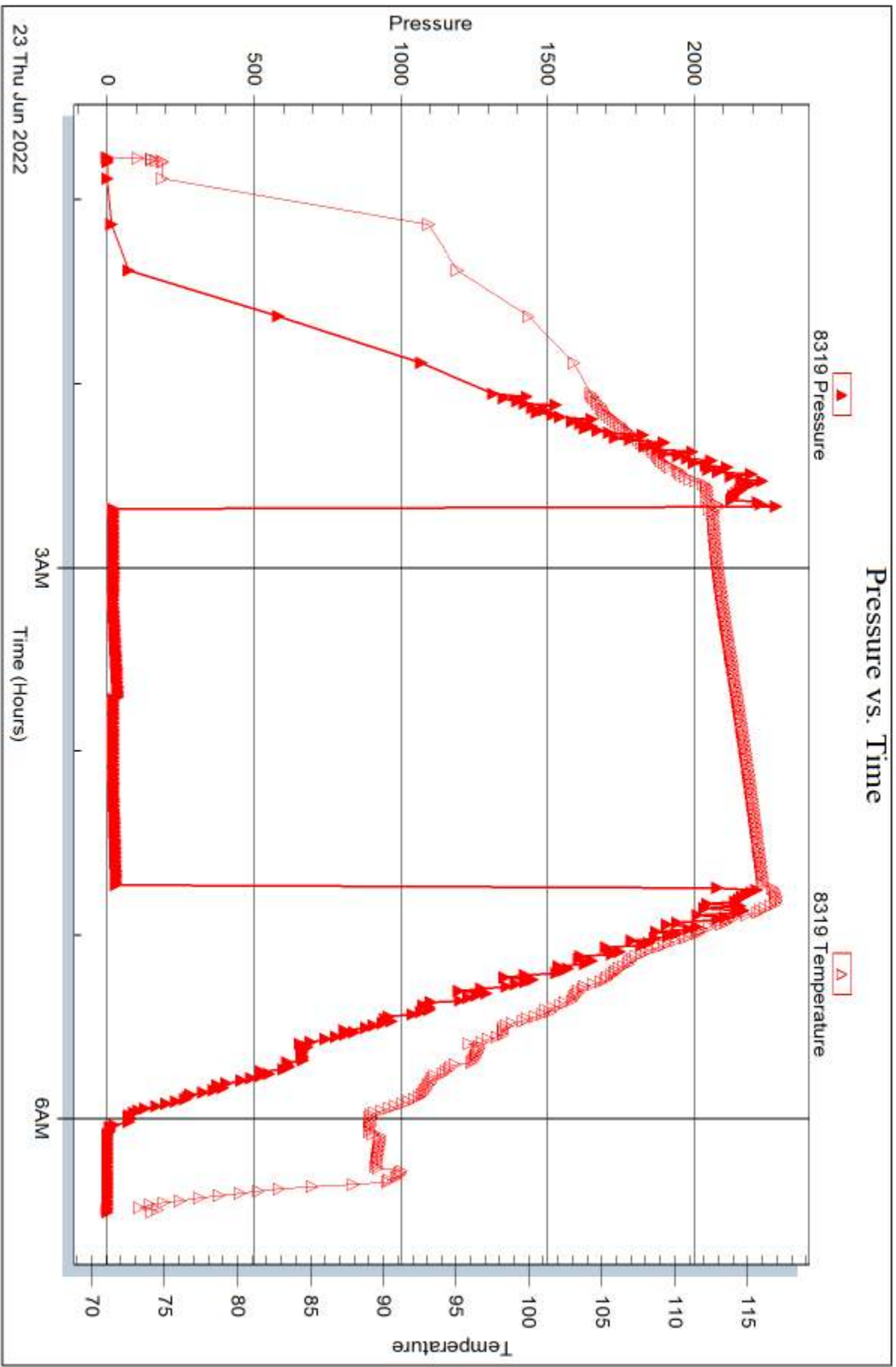
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Bridges 24CD #2

24-14s-32w Logan,KS

Start Date: 2022.06.23 @ 14:17:00

End Date: 2022.06.23 @ 20:18:45

Job Ticket #: 66118 DST #: 8

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

Printed: 2022.06.28 @ 11:06:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

24-14s-32w Logan,KS

Bridges 24CD #2

Job Ticket: 66118 **DST#: 8**
Test Start: 2022.06.23 @ 14:17:00

GENERAL INFORMATION:

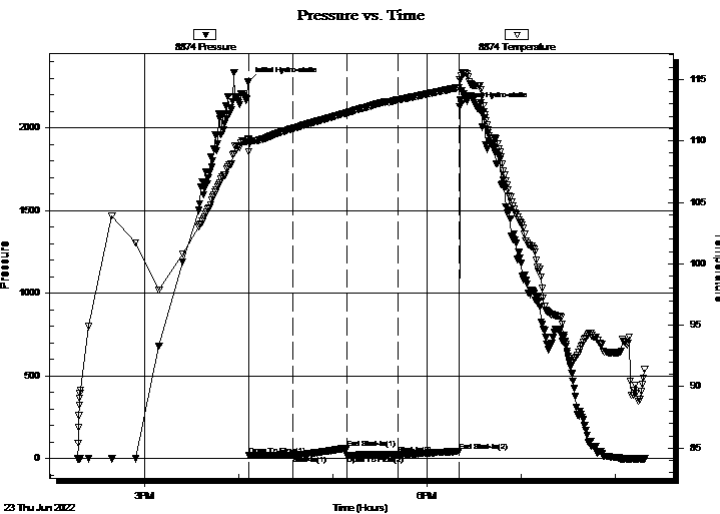
Formation: **Base Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:06:15
Time Test Ended: 20:18:45
Interval: **4349.00 ft (KB) To 4374.00 ft (KB) (TVD)**
Total Depth: 4374.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 2744.00 ft (KB)
2737.00 ft (CF)
KB to GR/CF: 7.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Serial #: 8874

Outside

Press@RunDepth: 25.75 psig @ 4350.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.06.23 End Date: 2022.06.23 Last Calib.: 2022.06.23
Start Time: 14:17:05 End Time: 20:18:44 Time On Btm: 2022.06.23 @ 16:06:00
Time Off Btm: 2022.06.23 @ 18:20:30

TEST COMMENT: IF: 1/4" blow . died @ 10 min.
IS: No return
FF: No blow . Flush No help.
FS: No return 30-30-40-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2279.52	110.17	Initial Hydro-static
1	19.34	109.11	Open To Flow (1)
28	20.20	111.00	Shut-In(1)
63	62.96	112.29	End Shut-In(1)
63	20.44	112.27	Open To Flow (2)
96	25.75	113.34	Shut-In(2)
134	42.01	114.35	End Shut-In(2)
135	2127.01	114.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	(mud 100m (oil spots))	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

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 66118

DST#: 8

ATTN: Max Lovely

Test Start: 2022.06.23 @ 14:17:00

Tool Information

Drill Pipe:	Length: 4225.00 ft	Diameter: 3.80 inches	Volume: 59.27 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4349.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	55.00 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			4320.00	
Shut In Tool	5.00			4325.00	
Hydraulic tool	5.00			4330.00	
Jars	5.00			4335.00	
EM Tool	3.00			4338.00	
Safety Joint	2.00			4340.00	
Packer	5.00			4345.00	30.00 Bottom Of Top Packer
Packer	4.00			4349.00	
Stubb	1.00			4350.00	
Recorder	0.00	8319	Inside	4350.00	
Recorder	0.00	8874	Outside	4350.00	
Perforations	21.00			4371.00	
Bullnose	3.00			4374.00	25.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 66118

DST#: 8

ATTN: Max Lovely

Test Start: 2022.06.23 @ 14:17:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 73.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	(mud 100m (oil spots))	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

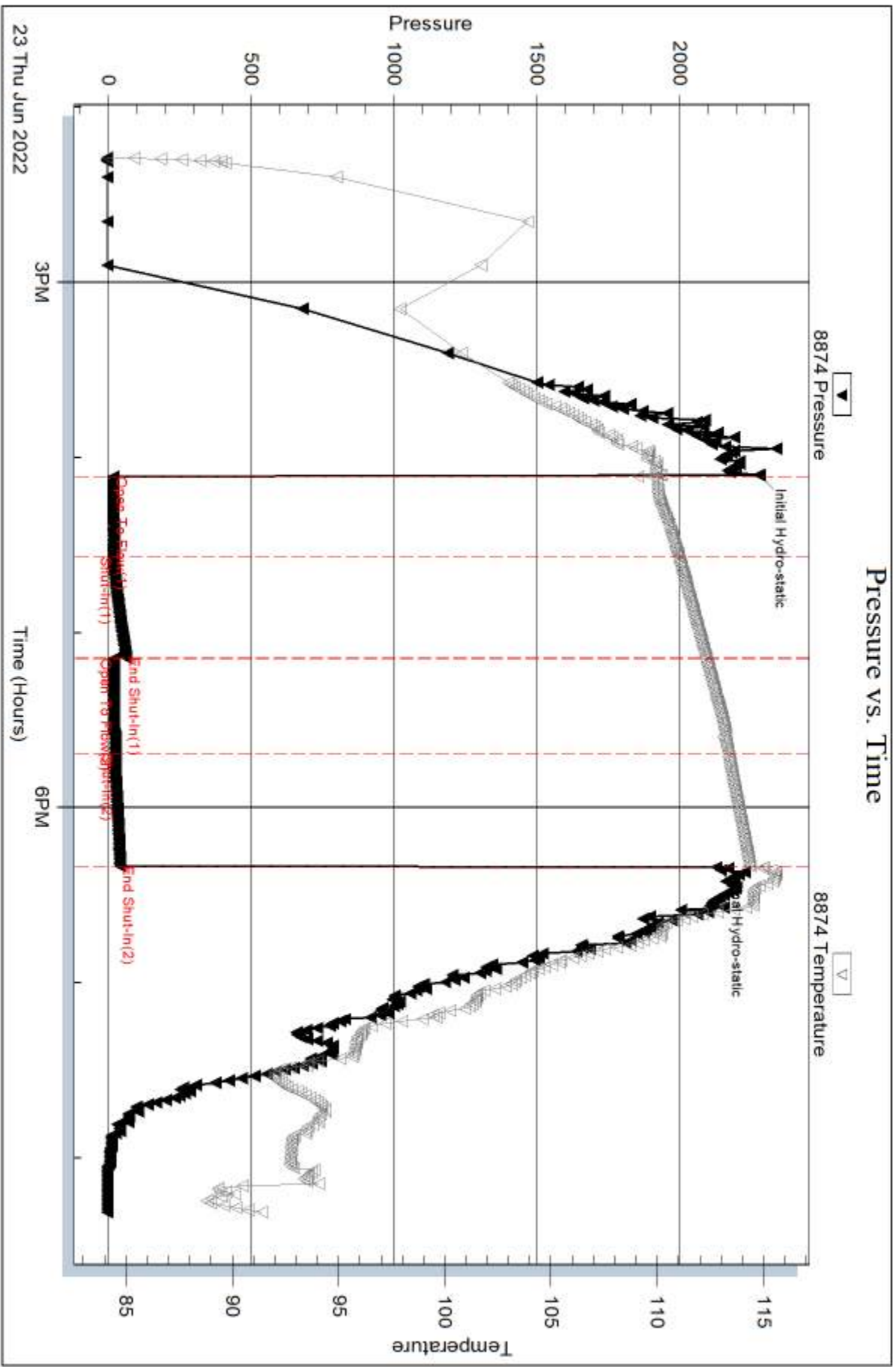
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



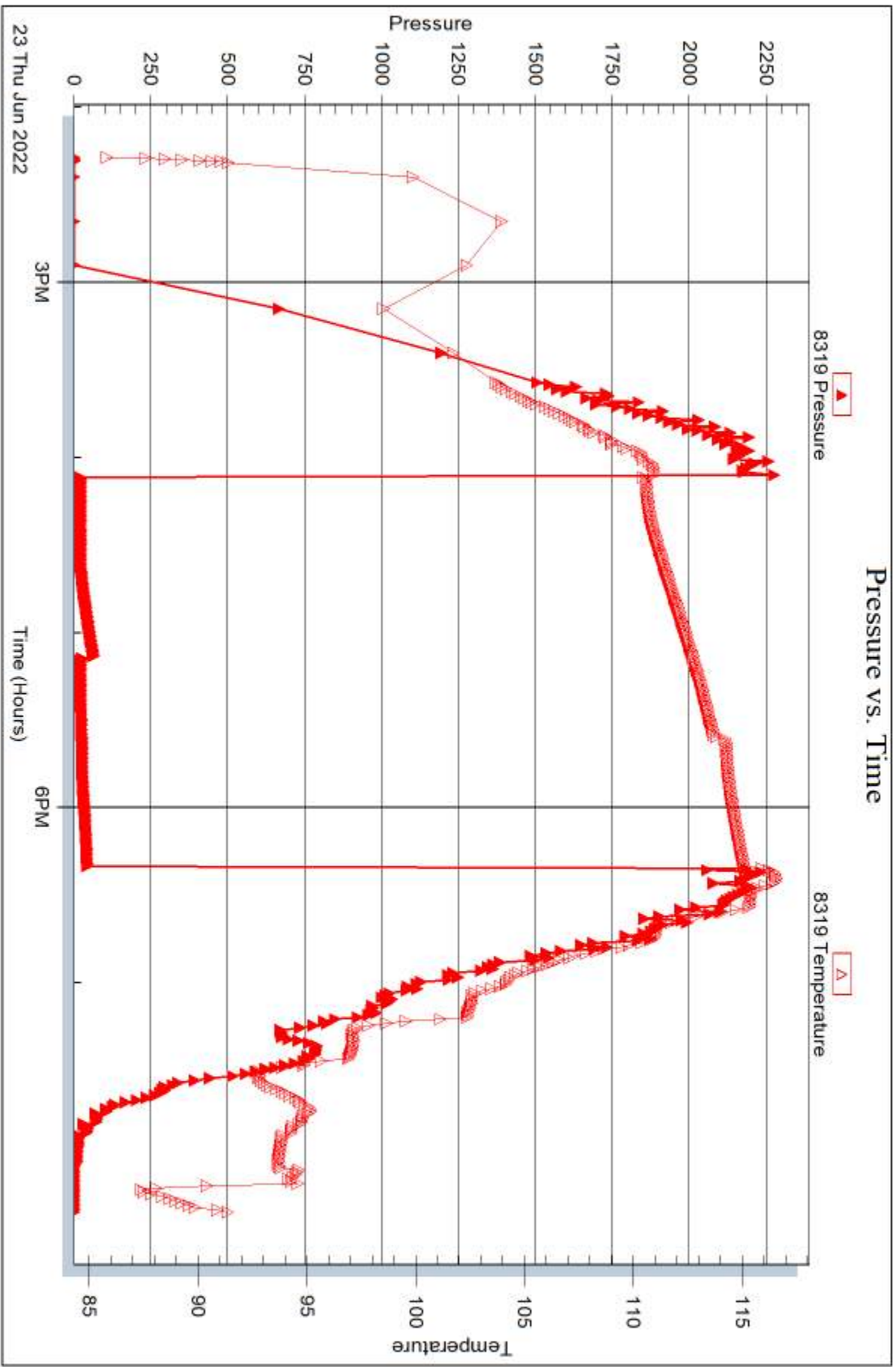
Serial #: 8319

Inside

Ritchie Exploration

Bridges 24CD #2

DST Test Number: 8



Trilobite Testing, Inc

Ref. No: 66118

Printed: 2022.06.28 @ 11:06:27



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Bridges 24CD #2

24-14s-32w Logan,KS

Start Date: 2022.06.24 @ 04:14:00

End Date: 2022.06.24 @ 10:58:30

Job Ticket #: 66119 DST #: 9

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.06.28 @ 11:05:55



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

24-14s-32w Logan,KS

Bridges 24CD #2

Job Ticket: 66119 **DST#: 9**
Test Start: 2022.06.24 @ 04:14:00

GENERAL INFORMATION:

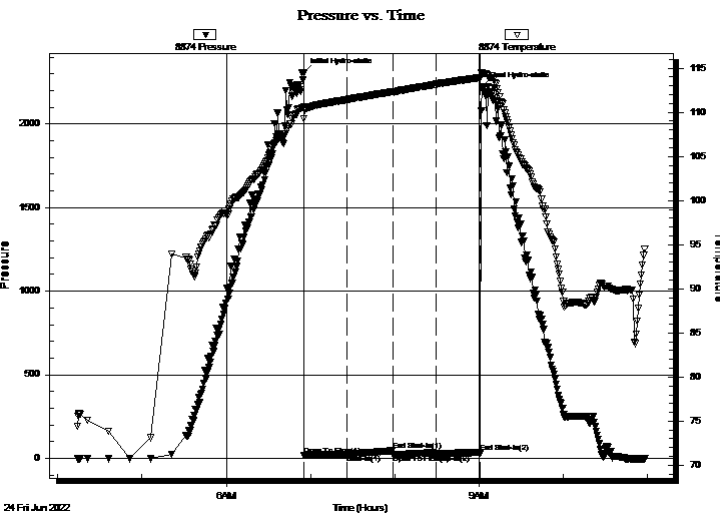
Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:55:30
Time Test Ended: 10:58:30
Interval: **4363.00 ft (KB) To 4386.00 ft (KB) (TVD)**
Total Depth: 4386.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 2744.00 ft (KB)
2737.00 ft (CF)
KB to GR/CF: 7.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Serial #: 8874

Outside

Press@RunDepth: 26.45 psig @ 4364.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.06.24 End Date: 2022.06.24 Last Calib.: 2022.06.24
Start Time: 04:14:05 End Time: 10:58:29 Time On Btm: 2022.06.24 @ 06:55:15
Time Off Btm: 2022.06.24 @ 09:02:15

TEST COMMENT: IF: 1/2" blow , died @ 20 min.
IS: No return.
FF: No blow .
FS: No return, 30-30-30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2304.43	110.67	Initial Hydro-static
1	18.23	109.30	Open To Flow (1)
31	23.37	111.44	Shut-In(1)
64	45.77	112.34	End Shut-In(1)
64	21.99	112.34	Open To Flow (2)
95	26.45	113.18	Shut-In(2)
126	35.02	113.92	End Shut-In(2)
127	2222.41	114.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100m (oil spots)	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 66119

DST#: 9

ATTN: Max Lovely

Test Start: 2022.06.24 @ 04:14:00

Tool Information

Drill Pipe:	Length: 4326.00 ft	Diameter: 3.80 inches	Volume: 60.68 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	113.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4363.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	53.00 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			4334.00	
Shut In Tool	5.00			4339.00	
Hydraulic tool	5.00			4344.00	
Jars	5.00			4349.00	
EM Tool	3.00			4352.00	
Safety Joint	2.00			4354.00	
Packer	5.00			4359.00	30.00 Bottom Of Top Packer
Packer	4.00			4363.00	
Stubb	1.00			4364.00	
Recorder	0.00	8319	Inside	4364.00	
Recorder	0.00	8874	Outside	4364.00	
Perforations	19.00			4383.00	
Bullnose	3.00			4386.00	23.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 66119

DST#: 9

ATTN: Max Lovely

Test Start: 2022.06.24 @ 04:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100m (oil spots)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

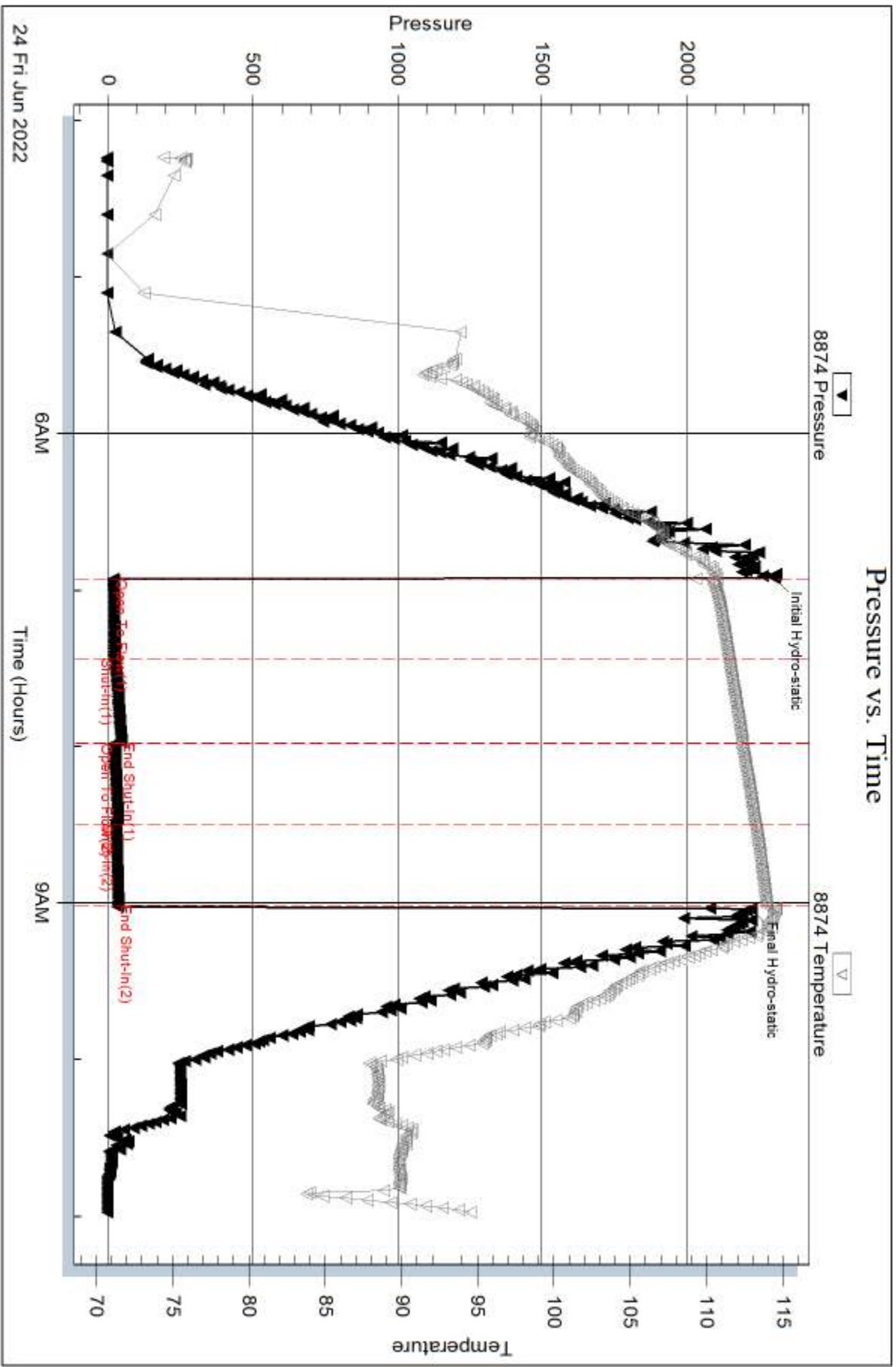
Num Gas Bombs: 0

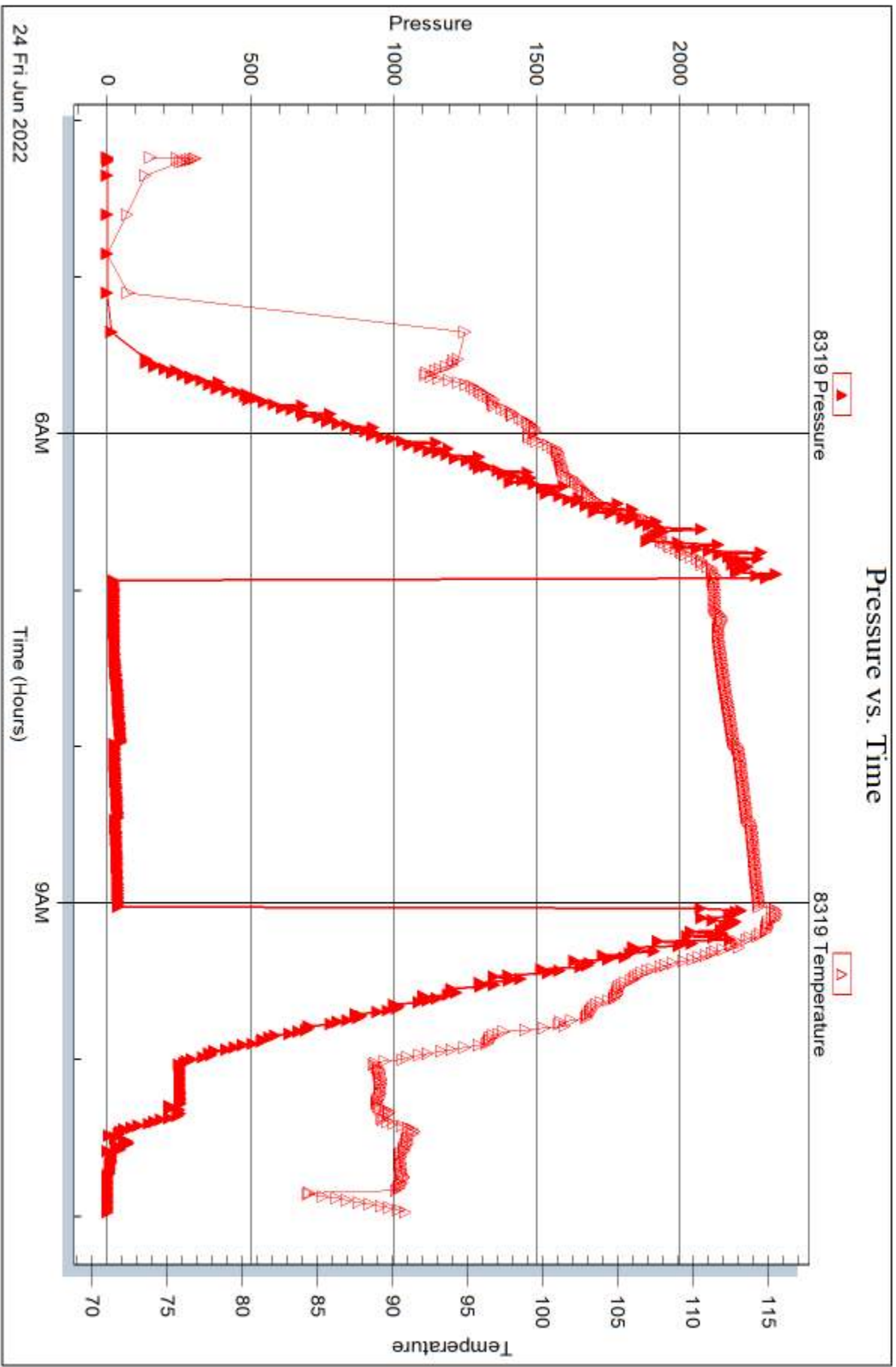
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Bridges 24CD #2

24-14s-32w Logan,KS

Start Date: 2022.06.24 @ 23:33:00

End Date: 2022.06.25 @ 06:10:15

Job Ticket #: 68120 DST #: 10

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

Printed: 2022.06.28 @ 11:01:12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

24-14s-32w Logan,KS

Bridges 24CD #2

Job Ticket: 68120 **DST#: 10**
Test Start: 2022.06.24 @ 23:33:00

GENERAL INFORMATION:

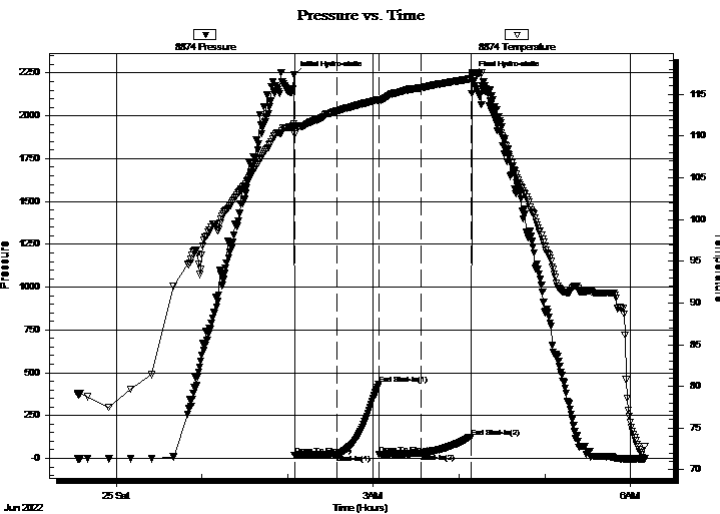
Formation: **Morrow - Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:04:45
Time Test Ended: 06:10:15
Interval: **4406.00 ft (KB) To 4443.00 ft (KB) (TVD)**
Total Depth: 4443.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78
Reference Elevations: 2744.00 ft (KB)
2737.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8874

Outside

Press@RunDepth: 28.64 psig @ 4407.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.06.24 End Date: 2022.06.25 Last Calib.: 2022.06.25
Start Time: 23:33:05 End Time: 06:10:14 Time On Btm: 2022.06.25 @ 02:04:30
Time Off Btm: 2022.06.25 @ 04:09:30

TEST COMMENT: IF: 1/2" blow .
IS: No return.
FF: No return.
FS: No blow . 30-30-30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2237.73	111.49	Initial Hydro-static
1	18.68	110.22	Open To Flow (1)
30	23.01	113.01	Shut-In(1)
60	431.54	114.35	End Shut-In(1)
60	24.73	114.30	Open To Flow (2)
89	28.64	115.78	Shut-In(2)
124	123.10	116.87	End Shut-In(2)
125	2234.56	117.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	socm 3o 97m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 68120

DST#: 10

ATTN: Max Lovely

Test Start: 2022.06.24 @ 23:33:00

Tool Information

Drill Pipe:	Length: 4288.00 ft	Diameter: 3.80 inches	Volume: 60.15 bbl	Tool Weight: 2500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4406.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	67.00 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			4377.00	
Shut In Tool	5.00			4382.00	
Hydraulic tool	5.00			4387.00	
Jars	5.00			4392.00	
EM Tool	3.00			4395.00	
Safety Joint	2.00			4397.00	
Packer	5.00			4402.00	30.00 Bottom Of Top Packer
Packer	4.00			4406.00	
Stubb	1.00			4407.00	
Recorder	0.00	8319	Inside	4407.00	
Recorder	0.00	8874	Outside	4407.00	
Perforations	33.00			4440.00	
Bullnose	3.00			4443.00	37.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

24-14s-32w Logan,KS

PO Box 783188
Wichita, KS 67278

Bridges 24CD #2

Job Ticket: 68120

DST#: 10

ATTN: Max Lovely

Test Start: 2022.06.24 @ 23:33:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	socm 3o 97m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

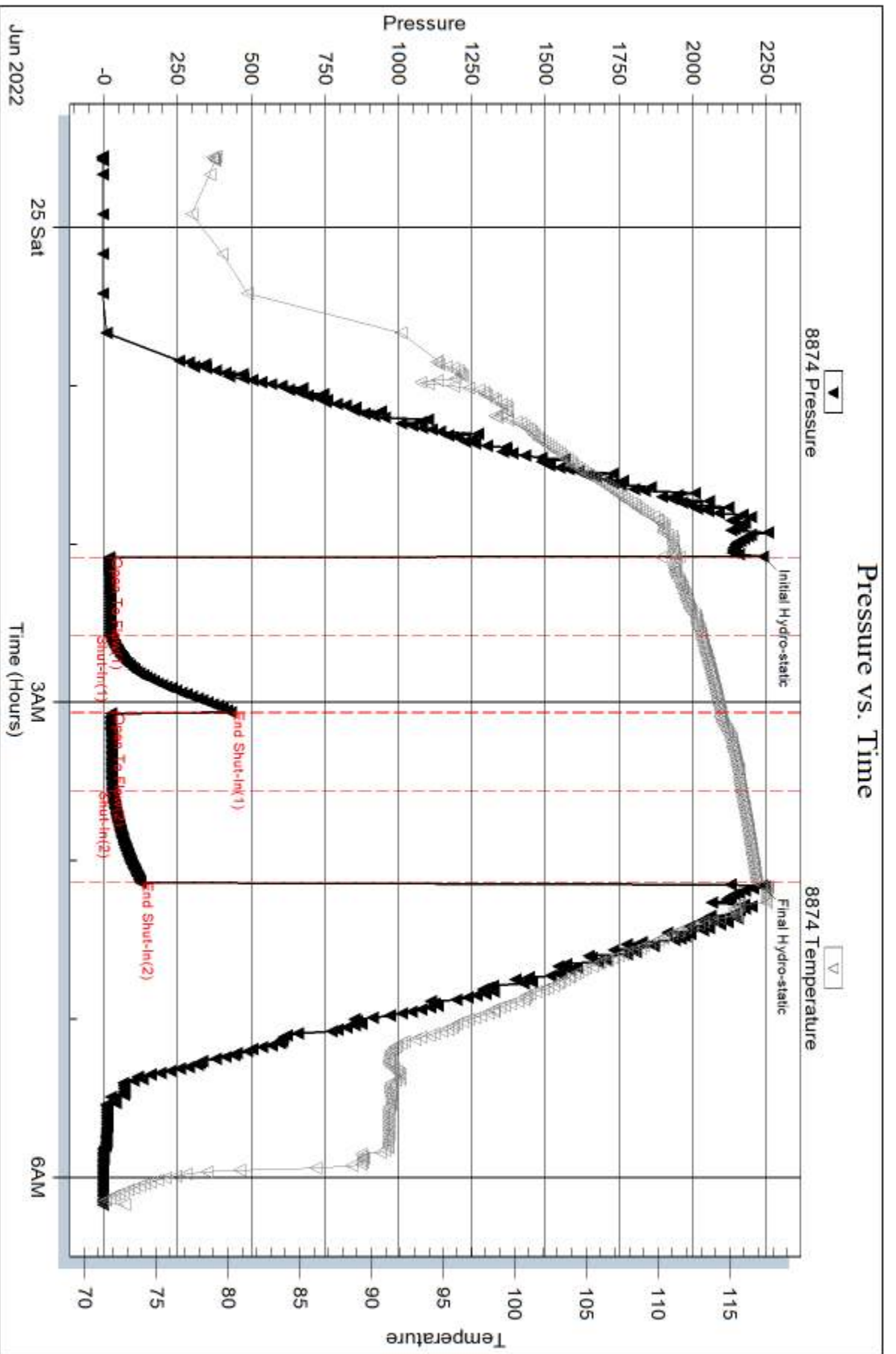
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



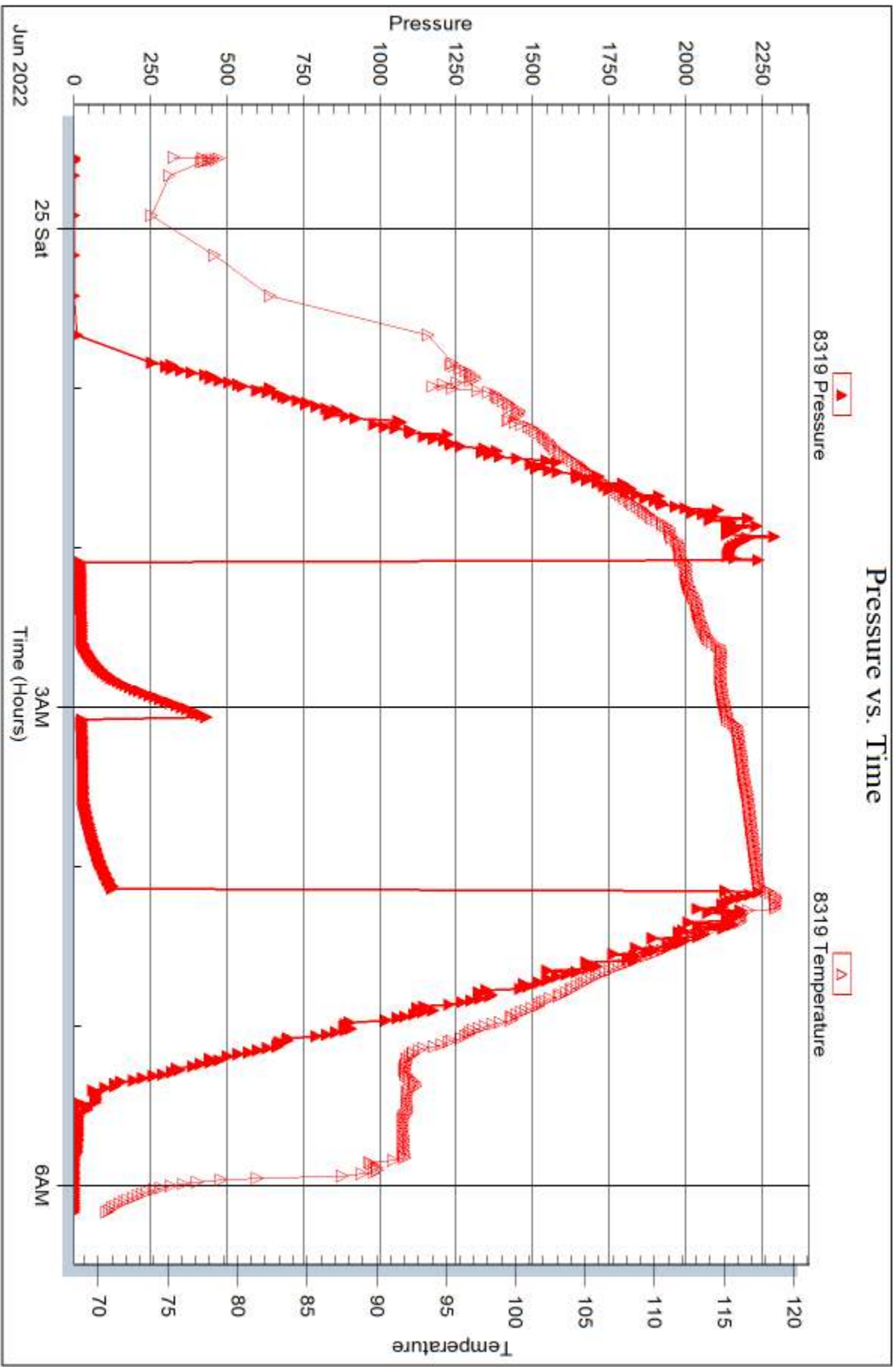
Serial #: 8319

Inside

Ritchie Exploration

Bridges 24CD #2

DST Test Number: 10





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68114

Well Name & No. Bridges 24CD #2 Test No. 1 Date 06/18/2022
 Company Ritchie Exploration Elevation 2744 KB 2737 GL
 Address Wichita Ks
 Co. Rep / Geo. Max Lovely Rig STP #1
 Location: Sec. 24 Twp 14S Rge. 32W Co. Logan State Ks

Interval Tested 3789-3810 Zone Tested Lansing C
 Anchor Length 21' Drill Pipe Run 3655 Mud Wt. 8.8
 Top Packer Depth 3784 Drill Collars Run 120 Vls 58
 Bottom Packer Depth 3789 Wt. Pipe Run Ø WL 6.4
 Total Depth 3810 Chlorides 2,000 ppm System LCM 2#

Blow Description IF: BOB @ 28 min -10.5" blow.
ISI: No return
FF: BOB @ 45 min 10" blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Oil</u>	<u>100</u>			
<u>305</u>	<u>MCW (Coil spots)</u>		<u>96</u>	<u>4</u>	

Rec Total 320 BHT 115 Gravity 36 API RW .152 @ 78° F Chlorides 41,000 ppm

(A) Initial Hydrostatic 1891 Test 1800 T-On Location 0000
 (B) First Initial Flow 21 Jars 300 T-Started 0106
 (C) First Final Flow 99 Safety Joint T-Open 0332
 (D) Initial Shut-In 947 Circ Sub T-Pulled 0632
 (E) Second Initial Flow 104 Hourly Standby T-Out 0832
 (F) Second Final Flow 163 Mileage 50RT 75 Comments _____
 (G) Final Shut-In 909 Sampler _____
 (H) Final Hydrostatic 1834 Straddle _____

Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2175
 Sub Total 2175 MPDST Disc't _____

Approved By _____ Our Representative [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. 68115

Well Name & No. Bridges 24CD #2 Test No. 2 Date 06/18/2022
 Company Ritche Exploration Elevation 2744 KB 2737 GL
 Address Wichita Ks
 Co. Rep / Geo. Max Lovely Rig STP #1
 Location: Sec. 24 Twp 14S Rge. 32W Co. Logan State Ks

Interval Tested 3811-3834 Zone Tested Lansing D
 Anchor Length 23 Drill Pipe Run 3688 Mud Wt. 9.7
 Top Packer Depth 3806 Drill Collars Run 120 Vis 52
 Bottom Packer Depth 3811 Wt. Pipe Run — WL 6.4
 Total Depth 3834 Chlorides 2400 ppm System LCM 2#

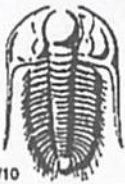
Blow Description IF 8 1/2" blow
ISI No return.
FI 11 3/4" blow
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>60 35-6 65-0</u>	<u>15</u>	<u>40</u>	<u>55</u>	<u>—</u>
<u>50</u>	<u>60cm</u>	<u>15</u>	<u>40</u>	<u>45</u>	<u>—</u>
<u>—</u>	<u>280' GI P</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 140 BHT 115 Gravity 42 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1881</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>1430</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>1524</u>
(C) First Final Flow <u>43</u>	<input checked="" type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>1716</u>
(D) Initial Shut-In <u>936</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>2018</u>
(E) Second Initial Flow <u>47</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>2222</u>
(F) Second Final Flow <u>68</u>	<input checked="" type="checkbox"/> Mileage <u>50RT 75</u>	Comments <u>—</u>
(G) Final Shut-In <u>870</u>	<input type="checkbox"/> Sampler <u>—</u>	<input checked="" type="checkbox"/> EM Tool <u>—</u>
(H) Final Hydrostatic <u>1865</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>2175</u>
	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>2175</u>	

Approved By _____ Our Representative [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. 67940

Well Name & No. Bridges 24 CD #2 Test No. 3 Date 6-19-22
 Company Ritec Exploration, Inc. Elevation 2744 KB 2737 GL
 Address P.O. Box 783188 Wichita, KS 67278
 Co. Rep / Geo. Max Lovely Rig STP #1
 Location: Sec. 24 Twp 14S. Rge. 32W. Co. Logan State KS

Interval Tested 3840 - 3866 Zone Tested LKC" E+F"
 Anchor Length 26' Drill Pipe Run 3722. Mud Wt. 8.9
 Top Packer Depth 3835 Drill Collars Run 120 Vis 60
 Bottom Packer Depth 3840 Wt. Pipe Run --- WL 6.8
 Total Depth 3866 Chlorides 2400 ppm System LCM 1#

Blow Description IF - Weak surface blow dead @ 14 min.

JSI - No return

FF - No blow

FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>0.5M</u>	<u>2</u>		<u>98</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 109 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1915
 (B) First Initial Flow 26
 (C) First Final Flow 29
 (D) Initial Shut-In 160
 (E) Second Initial Flow 30
 (F) Second Final Flow 32
 (G) Final Shut-In 79
 (H) Final Hydrostatic 1887

Test 1800
 Jars 300
 Safety Joint
 Circ Sub
 Hourly Standby
 Mileage 50RT 75
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 2175

T-On Location 05:30
 T-Started 06:10
 T-Open 08:12
 T-Pulled 10:12
 T-Out 11:50
 Comments
 EM Tool
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 2175
 MP/DST Disc't

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative [Signature]

Triobite 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.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67941

Well Name & No. Bridges. 24CD #2 Test No. 4 Date 6-20-22
 Company Ritchie Exploration Inc Elevation 2744 KB 2737 GL
 Address P.O. Box 783188 Wichita, KS 67278
 Co. Rep / Geo. Max Lovely Rig STP #1
 Location: Sec. 24 Twp 14S. Rge. 32W. Co. Logan State K5

Interval Tested 3919-3980 Zone Tested Lansing "HTI"
 Anchor Length 61 Drill Pipe Run 3784 Mud Wt. 8.8
 Top Packer Depth 3914 Drill Collars Run 120 Vis 60
 Bottom Packer Depth 3919 Wt. Pipe Run --- WL 7.2
 Total Depth 3980 Chlorides 2500 ppm System LCM 1#
 Blow Description IF - Blow built to 1"
ISZ - No return.
FF - Blow built to 3/4"
FISZ - No return.

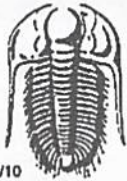
Rec	Feet of	%gas	%oil	%water	%mud
<u>59</u>	<u>05M</u>	<u>3</u>		<u>97</u>	
<u>1</u>	<u>60</u>	<u>100</u>			

Rec Total 60 BHT 112 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>1982</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>01:30</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>01:51</u>
(C) First Final Flow <u>40</u>	<input checked="" type="checkbox"/> Safety Joint <u>---</u>	T-Open <u>03:33</u>
(D) Initial Shut-In <u>834</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>06:33</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>08:23</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT</u> <u>75</u>	Comments <u>---</u>
(G) Final Shut-In <u>808</u>	<input type="checkbox"/> Sampler <u>---</u>	
(H) Final Hydrostatic <u>1916</u>	<input type="checkbox"/> Straddle <u>---</u>	<input checked="" type="checkbox"/> EM Tool <u>---</u>
	<input type="checkbox"/> Shale Packer <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
	<input type="checkbox"/> Extra Recorder <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
	<input type="checkbox"/> Day Standby <u>---</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>---</u>	Total <u>2175</u>
	Sub Total <u>2175</u>	MP/DST Disc't <u>---</u>

Approved By _____ Our Representative [Signature]

Tribolite 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. 67942

Well Name & No. Bridges 24CD #2 Test No. 5 Date 6-20-22
 Company Ritchie Exploration Inc. Elevation 2744 KB 2737 GL
 Address P.O. Box 783188 Wichita, KS 67278
 Co. Rep / Geo. Max Lovely Rig STP#1
 Location: Sec. 24 Twp 14S. Rge. 32W. Co. Logan State KS

Interval Tested 3990 - 4010 Zone Tested Lansing "J"
 Anchor Length 20' Drill Pipe Run 3848 Mud Wt. 9.4
 Top Packer Depth 3985 Drill Collars Run 120 Vis 56
 Bottom Packer Depth 3990 Wt. Pipe Run — WL 8.0
 Total Depth 4010 Chlorides 3300 ppm System LCM 1#
 Blow Description IF - Blow built to 1 1/4"
ISF - No return.
FF - Blow built to 1 1/4"
FSF - No return.

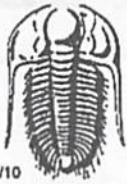
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>HOCM</u>	<u>30</u>		<u>70</u>	
<u>30</u>	<u>CGO</u>	<u>12</u>	<u>88</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total — BHT 113 Gravity 36.1 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2005</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>16:00</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>16:07</u>
(C) First Final Flow <u>39</u>	<input checked="" type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>17:55</u>
(D) Initial Shut-In <u>660</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>20:55</u>
(E) Second Initial Flow <u>43</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>22:44</u>
(F) Second Final Flow <u>51</u>	<input checked="" type="checkbox"/> Mileage <u>SORT</u> <u>75</u>	Comments <u>—</u>
(G) Final Shut-In <u>608</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1991</u>	<input type="checkbox"/> Straddle <u>—</u>	<input checked="" type="checkbox"/> EM Tool <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>—</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>—</u>	Total <u>2325</u>
	Sub Total <u>2325</u>	MP/DST Disc't <u>—</u>

Approved By _____ Our Representative Max Lovely

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67943

Well Name & No. Bridges 24CD #2 Test No. 6 Date 6-22-22
 Company Ritonic Exploration Inc. Elevation 2744 KB 2737 GL
 Address P.O. Box 783188 Wichita, KS. 67278
 Co. Rep / Geo. Max Lovely Rig STP #1
 Location: Sec. 24 Twp 14S. Rge. 32W. Co. Logan State KS.

Interval Tested 4258-4290 Zone Tested Ft. Scott
 Anchor Length 32' Drill Pipe Run 4133 Mud Wt. 8.8
 Top Packer Depth 4253 Drill Collars Run 120 Vls 60
 Bottom Packer Depth 4259 Wt. Pipe Run — WL 8.8
 Total Depth 4290 Chlorides 3000 ppm System LCM 24
 Blow Description IF - Blow built to 'M'
ISS - No return, Pull Tools.
FF
F82.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OSM</u>	<u>2</u>		<u>98</u>	
<u>0</u>	<u>Heavy Oil in Tool</u>				

Rec Total 5 BHT 116 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2182</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>09:00</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>09:12</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>11:00</u>
(D) Initial Shut-In <u>418</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>12:00</u>
(E) Second Initial Flow <u>—</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>13:40</u>
(F) Second Final Flow <u>—</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT 75</u>	Comments <u>Tools loaded @ 15:00</u>
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2160</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>—</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>—</u>	<input checked="" type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2325</u>
	Sub Total <u>2325</u>	MP/DST Disc't <u>—</u>

Approved By _____ Our Representative [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. 68116

Well Name & No. Bridges 24CD #2 Test No. 7 Date 06/23/2022
 Company Ritchie Exploration Elevation 2744 KB 2737 GL
 Address Wichita Ks
 Co. Rep / Geo. Max Lovely Rig STP #1
 Location: Sec. 24 Twp 14s Rge. 32W Co. Logan State Ks


Interval Tested 4334 - 4350 Zone Tested Upper Johnson
 Anchor Length 16' Drill Pipe Run 4195 Mud Wt. 9.0
 Top Packer Depth 4329 Drill Collars Run 120 Vis 59
 Bottom Packer Depth 4334 Wt. Pipe Run — WL 8.8
 Total Depth 4350 Chlorides 3600 ppm System LCM 2#

Blow Description FF 1/2" blow
ISI No return.
FF No blow
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Mud</u>			<u>100</u>	
	<u>oil spot</u>				

Rec Total _____ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2257 Test 1950 T-On Location 2320
 (B) First Initial Flow 17 Jars 300 T-Started 0046
 (C) First Final Flow 18 Safety Joint _____ T-Open 0241
 (D) Initial Shut-In 33 Circ Sub NA T-Pulled 0442
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 0630
 (F) Second Final Flow 19 Mileage 50 RT 75 Comments _____
 (G) Final Shut-In 27 Sampler _____
 (H) Final Hydrostatic 2216 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2325
 Sub Total 2325 MP/DST Disc't _____

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68118

Well Name & No. Bridges 24CD #2 Test No. 8 Date 06/23/2022
 Company Ritchie Exploration Elevation 2744 KB 2737 GL
 Address Wichita Ks
 Co. Rep / Geo. Max Lovely Rig STP #2
 Location: Sec. 24 Twp 14S Rge. 32W Co. Logan State Ks

Interval Tested 4349 - 4374 Zone Tested Base Johnson
 Anchor Length 25 Drill Pipe Run 4225 Mud Wt. 9.1
 Top Packer Depth 4344 Drill Collars Run 120 Vis 73
 Bottom Packer Depth 4349 Wt. Pipe Run — WL 80
 Total Depth 4374 Chlorides 3500 ppm System LCM 2*

Blow Description IF 1/2" blow died @ 10
ISI No return.
PF No blow, Flushed tool, No help
PSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>mud</u>			<u>NO</u>	
	<u>oil spots</u>				

Rec Total 15 BHT 116 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>2279</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>1330</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>1417</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>1608</u>
(D) Initial Shut-In <u>62</u>	<input checked="" type="checkbox"/> Circ Sub <u>NA</u>	T-Pulled <u>1818</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2019</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>75</u>	Comments
(G) Final Shut-In <u>42</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2127</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>-350</u>
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>40</u>	<input type="checkbox"/> Day Standby	Sub Total <u>-350</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	Total <u>1975</u>
	Sub Total <u>2325</u>	MP/BST Disc't

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68119

Well Name & No. Bridges 24CD #2 Test No. 9 Date 06/24/2022
 Company Ritchie Exploration Elevation 2744 KB 2737 GL
 Address Wichita, Ks
 Co. Rep / Geo. Max Lovely Rig STP #2
 Location: Sec. 24 Twp 14s Rge. 32w Co. Logan State Ks

Interval Tested 4363 4386 Zone Tested Morrow
 Anchor Length 23' Drill Pipe Run 4326 Mud Wt. 8.9
 Top Packer Depth 4358 Drill Collars Run 120 Vis 66
 Bottom Packer Depth 4363 Wt. Pipe Run 0 WL 8.0
 Total Depth 4386 Chlorides 3500 ppm System LCM 2#

Blow Description IF 1/2" blow dead @ 20 min.
ISI No return.
FP No blow
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 10 BHT 114 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2304</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>0345</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>0414</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0654</u>
(D) Initial Shut-In <u>45</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0859</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1059</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage <u>75</u>	Comments
(G) Final Shut-In <u>35</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2222</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	Total <u>2325</u>
	Sub Total <u>2325</u>	MP/DST Disc

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68120

Well Name & No. Bridges 24CD #2 Test No. 10 Date 06/25/2022
 Company Ritchie Exploration Elevation 2744 KB 2737 GL
 Address Wichita, Ks
 Co. Rep / Geo. Max Lovely Rig STP #2
 Location: Sec. 24 Twp 14s Rge. 32W Co. Logan State Ks

Interval Tested 4406 - 4443 Zone Tested Morrow - Miss
 Anchor Length 37' Drill Pipe Run 4288 Mud Wt. 9.0
 Top Packer Depth 4401 Drill Collars Run 120 Vls 58
 Bottom Packer Depth 4406 Wt. Pipe Run — WL 8.0
 Total Depth 4443 Chlorides 3000 ppm System LCM 2#

Blow Description IF 1/2" blow
ISI No return.
FF No blow
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>0cm</u>	<u>3</u>		<u>97</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 117 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 2237 Test 1950 T-On Location 2300
 (B) First Initial Flow 18 Jars 300 T-Started 2333
 (C) First Final Flow 23 Safety Joint — T-Open 0203
 (D) Initial Shut-In 431 Circ Sub — T-Pulled 0403
 (E) Second Initial Flow 24 Hourly Standby — T-Out 0610
 (F) Second Final Flow 28 Mileage SORT 75 Comments —
 (G) Final Shut-In 123 Sampler —
 (H) Final Hydrostatic 2234 Straddle —

EM Tool —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Initial Open 30 Extra Packer —
 Initial Shut-In 30 Extra Recorder —
 Final Flow 30 Day Standby —
 Final Shut-In 30 Accessibility —
 Sub Total 2325 Sub Total 0
 Total 2325 MP/DST Disc —

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