KOLAR Document ID: 1799387

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 # 4767
Name: Ritchie Exploration, Inc.
Address 1: 8100 E 22ND ST N # 700
Address 2: PO BOX 783188
City: WICHITA State: KS Zip: 67278 + 3188
Contact Person: John Goldsmith
Phone: (316) 691-9500
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Max Lovely
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 #:

7/15/2024 Spud Date or Recompletion Date
7/26/2024 Date Reached TD
8/2/2024 Completion Date or Recompletion Date

API No.: 15-109-21676-00-00
Spot Description: 5'N & 96' W of
_ - S2 - SE - SW Sec. 14 Twp. 15 S. R. 36 ☐ East ☑ West
335 Feet from ☐ North / ☑ South Line of Section
1884 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Logan
Lease Name: MOLLENKAMP TRUST Well #: 1
Field Name:
Producing Formation: Altamont
Elevation: Ground: 3297 Kelly Bushing: 3306
Total Vertical Depth: 4902 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 220 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2549 Feet
If Alternate II completion, cement circulated from: 0
feet depth to: 2549 w/ 450 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 12000 ppm Fluid volume: 820 bbls
Dewatering method used: Evaporated
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: 10/17/2024
☐ **Confidential Release Date:** 10/17/2026
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Kelsey Cox **Date:** 10/21/2024

Page Two

Operator Name: Ritchie Exploration, Inc. Lease Name: MOLLENKAMP TRUST Well #: 1

Sec. 14 Twp. 15 S. R. 36 ☐ East ☑ West County: Logan

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 *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run: Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	220	H-325	175	100%
Production	7.875	5.5	14	4889	H-322	170	10% Salt, 2% Gel, 1/2% Halad

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: 8/28/2024

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10		2		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
4471	4476
4487	4491

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	4471	4476			500 gal MCA
4	4487	4491			500 gal MCA

TUBING RECORD: Size: 2.375 Set At: 4862 Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	MOLLENKAMP TRUST 1
Doc ID	1799387

All Electric Logs Run

Porosity
Dual Induction
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	MOLLENKAMP TRUST 1
Doc ID	1799387

Tops

Name	Top	Datum
Anhydrite	2570	+736
Stotler	3646	-340
Heebner	4002	-696
Lansing	4040	-734
Hushpuckney	4364	-1058
BKC	4398	-1092
Marmaton	442	-1136
Pawnee	4532	-1226
Cherokee	4622	-1316
Morrow	4760	-1454
Mississippi	4831	-1525

Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	MOLLENKAMP TRUST 1
Doc ID	1799387

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	220	H-325	175	100%
Production	7.875	5.5	14	4889	H-322	170	10% Salt, 2% Gel, 1/2% Halad

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	RITCHIE EXPLORATION	Lease & Well #	MOLLENKAMP TRUST 1			Date	7/15/2024
Service District	OAKLEY,KS	County & State	LOGAN/KS	Legals S/T/R	SEC.14-15S-36W	Job #	
Job Type	SURFACE	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	WP 5558

Equipment #	Driver
945	ROGER GASTON
537-520	MACK F
242	JOSE P
914	CODY S

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☐ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☐ Overhead Hazards	☑ Muster Point/Medical Locations
☐ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
CP015	H-325	sack	175.00				$3,937.50
M015	Light Equipment Mileage	mi	55.00				$110.00
M010	Heavy Equipment Mileage	mi	110.00				$440.00
M020	Ton Mileage	tm	454.00				$681.00
D010	Depth Charge: 0'-500'	job	1.00				$1,000.00
C035	Cement Data Acquisition	job	1.00				$250.00
C060	Cement Blending & Mixing Service	sack	175.00				$245.00
R061	Service Supervisor	day	1.00				$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

		Gross:		Net:	$6,938.50
	Total Taxable	$ -	Tax Rate:		
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.				Sale Tax:	$ -
				Total:	$ 6,938.50

HSI Representative: *ROGER GASTON*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results fom the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well informaiton in determining taxable services.

X_____ **CUSTOMER AUTHORIZATION SIGNATURE**

CEMENT TREATMENT REPORT

Customer:	RITCHIE EXPLORATION	**Well:**	MOLLENKAMP TRUST 1	**Ticket:**	WP 5558
City, State:	AUGSTIN,KS	**County:**	LOGAN/KS	**Date:**	7/15/2024
Field Rep:	DUKE 4 TOOL PUSHER	**S-T-R:**	SEC.14-15S-36W	**Service:**	SURFACE

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	220.18 ft
Casing Size:	8 5/8 in
Casing Depth:	220 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	12.8 bbls

Calculated Slurry - Lead	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft^3 / sx
Annular Bbls / Ft.:	0.735 bbs / ft.
Depth:	220 ft
Annular Volume:	13.8 bbls
Excess:	
Total Slurry:	44.0 bbls
Total Sacks:	175 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

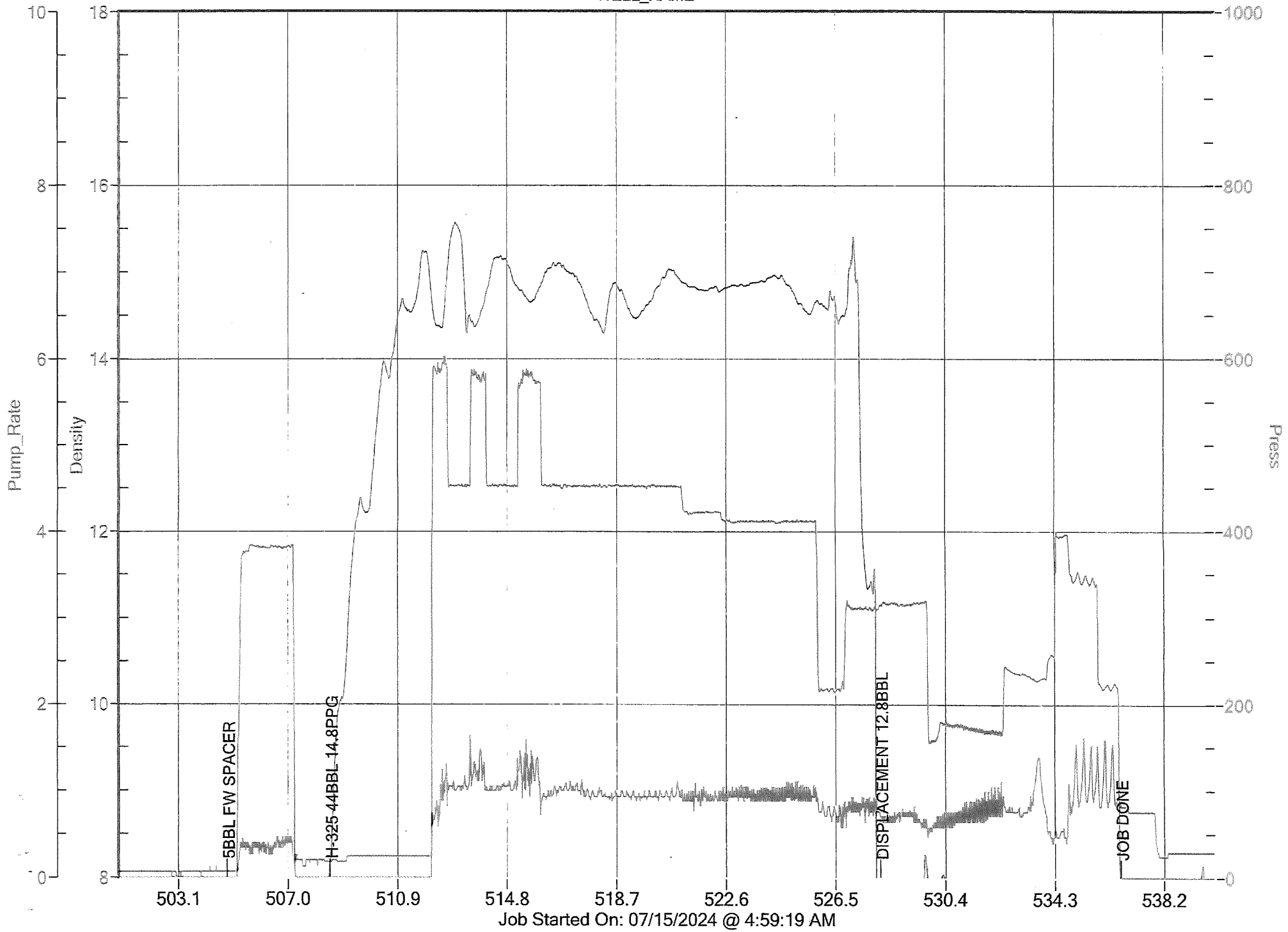
TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
6:30 PM			-		ARRIVE ON LOCATION
6:45 PM					RIG UP SAFETY MEETING
7:45 PM					CASING ON BOTTOM
7:55 PM	4.0	50.0	5.0		5BBL FW SPACER
8:02 PM	4.5	70.0	44.0		CMT H-325 14.8ppg 44.0bbl 170 sks
8:18 PM	2.0	100.0	12.8		DISPLACEMENT 12.8bbl
8:26 PM					SHUT DOWN PUMP/SHUT IN WELL 70psi
8:28 PM					RIG DOWN
9:00 PM					DEPART LOCATION
					5 BBL TO SURFACE 10 SKS

	CREW	UNIT
Cementer:	ROGER GASTON	945
Pump Operator:	MACK F	537-520
Bulk #1:	JOSE P	242
Bulk #2:	CODY S	914

SUMMARY		
Average Rate	Average Pressure	Total Fluid
3.5 bpm	73 psi	62 bbls

RICHIE EXPLORATION

WELL_NAME



Job Started On: 07/15/2024 @ 4:59:19 AM

SWIFT Services, Inc.

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

TICKET 37309

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays	#1	Mollenkamp Trust	Logan	KS		7-26-24	
2. Ness City	TICKET TYPE ☐ SERVICE ☐ SALES	CONTRACTOR: Duke Drilling	RIG NAME/NO.: Rig 4	SHIPPED VIA: CT	DELIVERED TO: location	ORDER NO.	
3.	WELL TYPE: Oil	WELL CATEGORY: Development	JOB PURPOSE: long String		WELL PERMIT NO.	WELL LOCATION	
4.							
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE TRK 111	100	mi			8 00	800 00
578		1			Pump Charge- long String	1	EA			1750 00	1750 00
290		1			D-Air	2	Gal			45 00	90 00
221		1			Liquid KCL	2	Gal			25 00	50 00
281		1			Mud Flush	500	Gal			2 50	1250 00
403		1			Cement Basket	4	EA	5½		350 00	1400 00
404		1			Port Collar	1	EA			2600 00	2600 00
406		1			Latch Down Plug & Baffle	1	EA			300 00	300 00
407		1			Insert Float Shoe w/ Auto Fill	1	EA			400 00	400 00
409		1			Turbolizer	6	EA			110 00	660 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	AGREE	UNDECIDED	DISAGREE
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 1 PAGE TOTAL	9300 00
Page 2	8135 00
TOTAL	17435 00
TAX Logan	1004 20
TOTAL	18504 20

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

SWIFT OPERATOR | APPROVAL

Thank You!

SWIFT Services, Inc

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

TICKET CONTINUATION

TICKET No. 37309

CUSTOMER: Ritchie Exploration | WELL: Mollenkamp Trust #1 | DATE: 7-26-24 | PAGE | OF

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
325		2				Standard Cement	200	Sx			17 50	3500 00
279		2				Bentonite Gel	8	Sx			30 00	240 00
283		2				Salt	1100	lbs			25	275 00
292		2				Halad - 322	100	lbs			9 00	900 00
277		2				Cal Seal	1000	lbs			1 75	1750 00
						SERVICE CHARGE Cement	CUBIC FEET 200 sx				2 00	400 00
						MILEAGE CHARGE TOTAL WEIGHT 21460 LOADED MILES 100	TON MILES 1070				1 00	1070 00

CONTINUATION TOTAL 8135 00

JOB LOG

SWIFT Services, Inc.

DATE 7-26-24 | PAGE NO.

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Ritchie Exploration	#1	Mollenkamp Trust	Long String	37309

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1230							On location
								Csg - 5½ x 14#
								RD - 4900
								Shoe JT - 21.15 Baffle @ 4867
								Turbolizers - 1, 4, 5, 12, 55, 57
								Baskets - 8, 56, 73, 95
								Port Collar - 56 @ 2549
	240							START Running Csg
	440							Break Circ on Btm
	510	2.5	8			0		Plug rat hole - 30 sx
		6.5	12			300		Pump mudflush - 500 Gal
		6.5				300		Pump KCL spacer
		5	42			300		Pump cmt - 170 sx @ 15.5 ppg
								Drop plug Wash P&L
		6.5	0			300		START Disp
	1800	6.5	119			1000		Land plug @ 1600 #
								Release - Dry
								Job Complete
								Thanks
								Davis, Seth & Austin

DRILL STEM TEST REPORT

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71821 **DST#: 1**

Test Start: 2024.07.19 @ 20:10:00

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:28:30
Time Test Ended: 03:57:20

Test Type: Conventional Bottom Hole (Initial)
Tester: Martine Salinas
Unit No: 82

Interval: 3986.00 ft (KB) To 4025.00 ft (KB) (TVD)
Total Depth: 4025.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

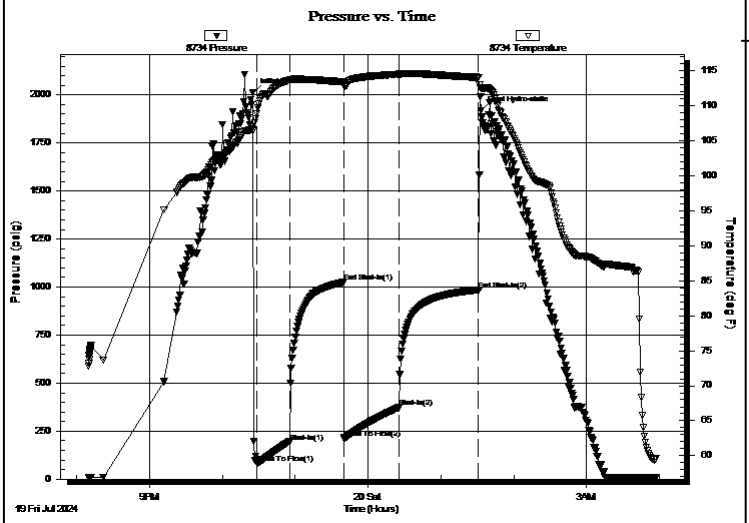
Reference Elevations: 3308.00 ft (KB)
3299.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 373.64 psig @ 3987.00 ft (KB)
Start Date: 2024.07.19 End Date: 2024.07.20
Start Time: 20:10:01 End Time: 03:57:20

Capacity: 8000.00 psig
Last Calib.: 2024.07.20
Time On Btm: 2024.07.19 @ 22:25:30
Time Off Btm: 2024.07.20 @ 01:33:09

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 8 mins (Blow increased to 27")
45-ISI-No return
45-FF-BOB @ 13 mins (Blow increased to 26 1/2")
60-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.41	106.72	Initial Hydro-static
3	84.96	108.89	Open To Flow (1)
30	194.70	113.57	Shut-In(1)
75	1025.31	113.41	End Shut-In(1)
75	213.51	112.88	Open To Flow (2)
121	373.64	114.43	Shut-In(2)
186	985.84	114.04	End Shut-In(2)
188	1919.86	112.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
440.00	SW w/Oil spots 4%M, 96%W	6.17
320.00	MCW 15%M, 85%W	4.49

Gas Rates

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

DRILL STEM TEST REPORT

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71821 **DST#: 1**

Test Start: 2024.07.19 @ 20:10:00

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:28:30
Time Test Ended: 03:57:20

Test Type: Conventional Bottom Hole (Initial)
Tester: Martine Salinas
Unit No: 82

Interval: 3986.00 ft (KB) To 4025.00 ft (KB) (TVD)
Total Depth: 4025.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

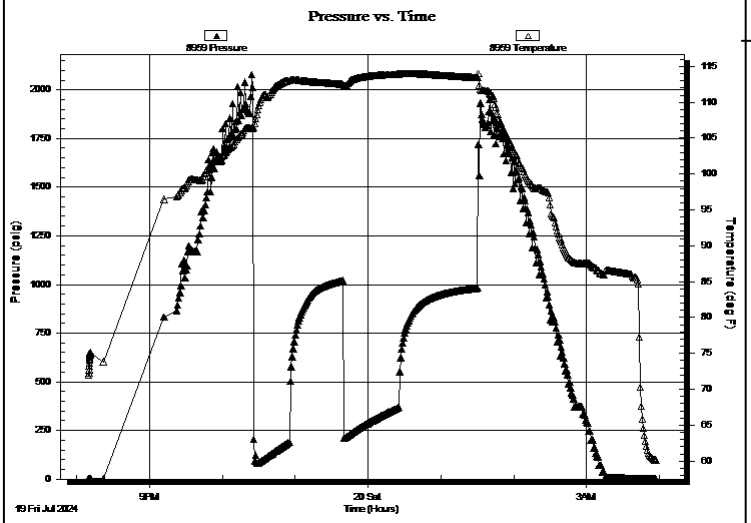
Reference Elevations: 3308.00 ft (KB)
3299.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 3987.00 ft (KB)
Start Date: 2024.07.19 End Date: 2024.07.20
Start Time: 20:10:01 End Time: 03:57:20

Capacity: 8000.00 psig
Last Calib.: 2024.07.20
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 8 mins (Blow increased to 27")
45-ISI-No return
45-FF-BOB @ 13 mins (Blow increased to 26 1/2")
60-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
440.00	SW w/Oil spots 4%M, 96%W	6.17
320.00	MCW 15%M, 85%W	4.49

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71821 **DST#: 1**

Test Start: 2024.07.19 @ 20:10:00

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:	17000 ppm
Viscosity:	62.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
440.00	SW w /Oil spots 4%M, 96%W	6.172
320.00	MCW 15%M, 85%W	4.489

Total Length: 760.00 ft Total Volume: 10.661 bbl

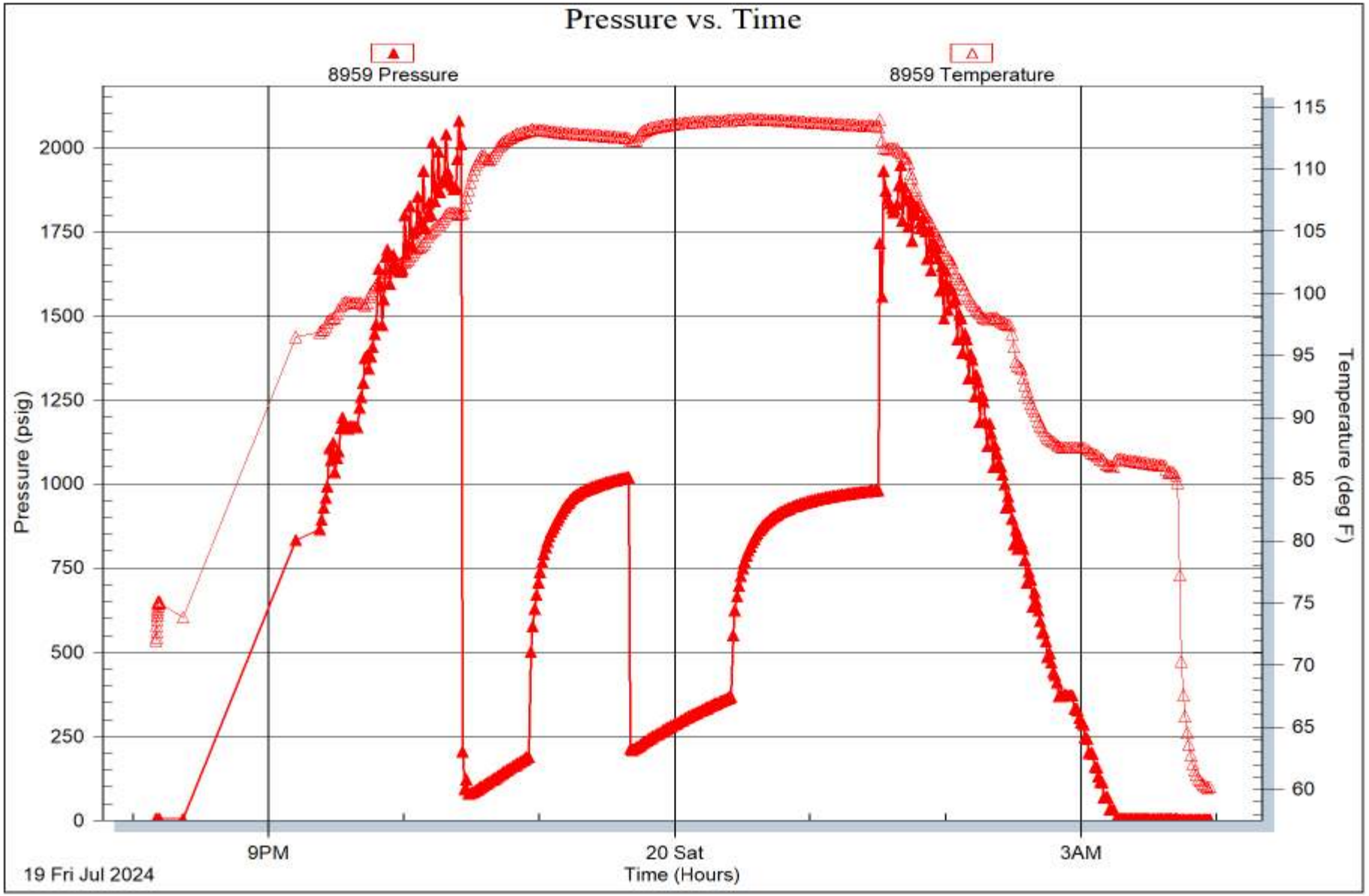
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .475 @ 60.5 degs = 17,000 PPM



Serial #: 8959 **Inside** Ritchie Exploration INC #1 Mollenkamp Trust DST Test Number: 1



Trilobite Testing, Inc Ref. No: 71821 Printed: 2024.07.20 @ 07:07:08

DRILL STEM TEST REPORT

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71822 **DST#: 2**

Test Start: 2024.07.20 @ 20:30:00

GENERAL INFORMATION:

Formation: **Lansing " E & F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:41:20
Time Test Ended: 03:59:50

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4134.00 ft (KB) To 4162.00 ft (KB) (TVD)
Total Depth: 4162.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

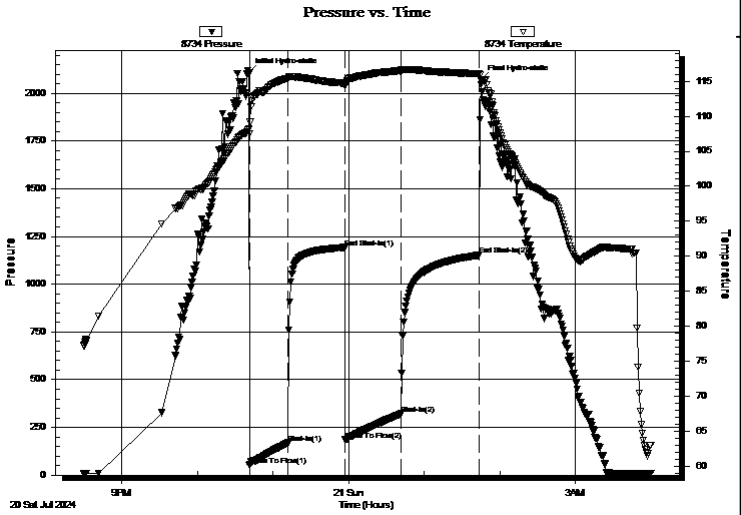
Reference Elevations: 3308.00 ft (KB)
3299.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 320.74 psig @ 4135.00 ft (KB)
Start Date: 2024.07.20 End Date: 2024.07.21
Start Time: 20:30:01 End Time: 03:59:50

Capacity: 8000.00 psig
Last Calib.: 2024.07.21
Time On Btm: 2024.07.20 @ 22:41:10
Time Off Btm: 2024.07.21 @ 01:45:00

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 11 mins (blow built to 20 1/4")
45-ISI-No return
45-FF-BOB @ 18 mins (blow built to 20 3/4")
60-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.21	108.18	Initial Hydro-static
1	51.87	107.52	Open To Flow (1)
31	168.82	115.41	Shut-In(1)
76	1192.28	114.73	End Shut-In(1)
77	184.90	114.42	Open To Flow (2)
121	320.74	116.49	Shut-In(2)
183	1152.10	116.08	End Shut-In(2)
184	2070.12	115.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MCW w/Oil specks 10%M, 90%W	4.42
310.00	HMCW w/Oil specks 32% M, 68%W	4.35

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71822 **DST#: 2**

Test Start: 2024.07.20 @ 20:30:00

GENERAL INFORMATION:

Formation: **Lansing " E & F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:41:20
Time Test Ended: 03:59:50

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4134.00 ft (KB) To 4162.00 ft (KB) (TVD)
Total Depth: 4162.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

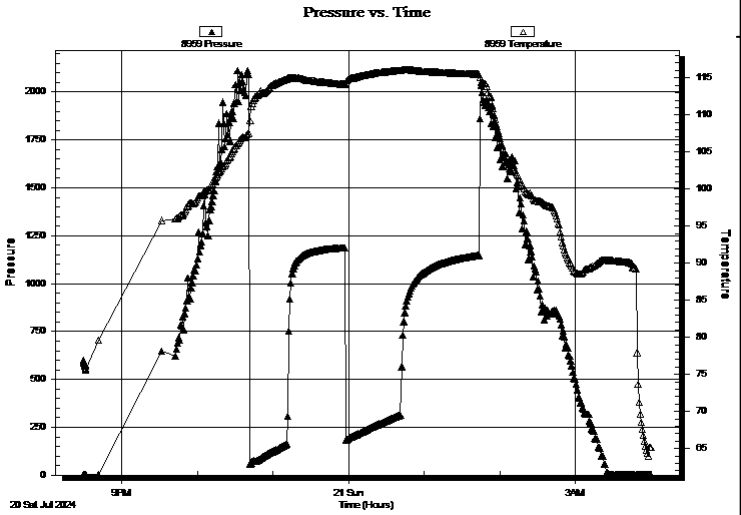
Reference Elevations: 3308.00 ft (KB)
3299.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4135.00 ft (KB)
Start Date: 2024.07.20 End Date: 2024.07.21
Start Time: 20:30:01 End Time: 03:59:40

Capacity: 8000.00 psig
Last Calib.: 2024.07.21
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 11 mins (blow built to 20 1/4")
45-ISI-No return
45-FF-BOB @ 18 mins (blow built to 20 3/4")
60-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MCW w/Oil specks 10%M, 90%W	4.42
310.00	HMCW w/Oil specks 32% M, 68%W	4.35

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71822 **DST#: 2**

Test Start: 2024.07.20 @ 20:30:00

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:	14500 ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	MCW w /Oil specks 10%M, 90%W	4.419
310.00	HMCW w /Oil specks 32% M, 68%W	4.348

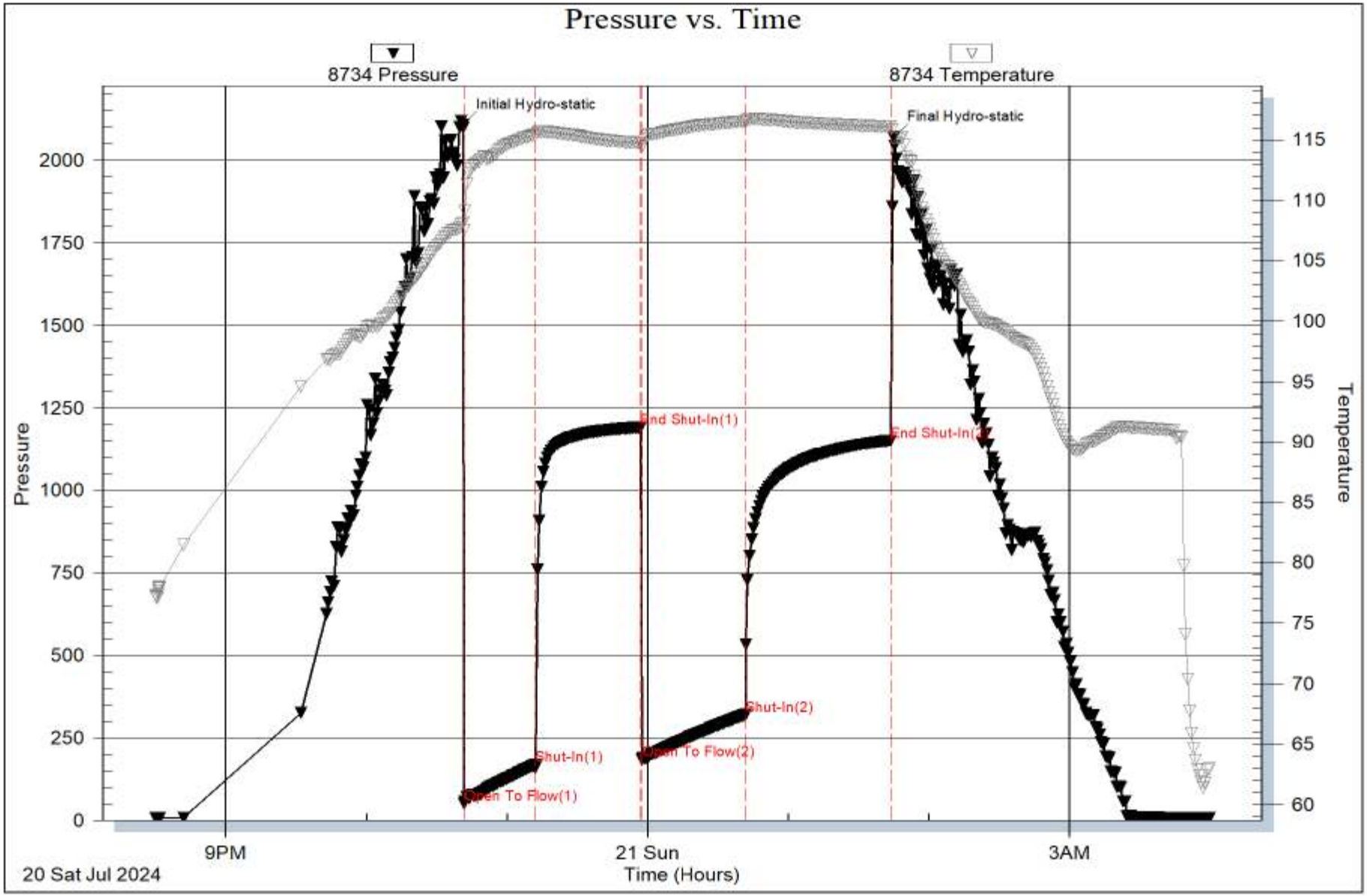
Total Length: 625.00 ft Total Volume: 8.767 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

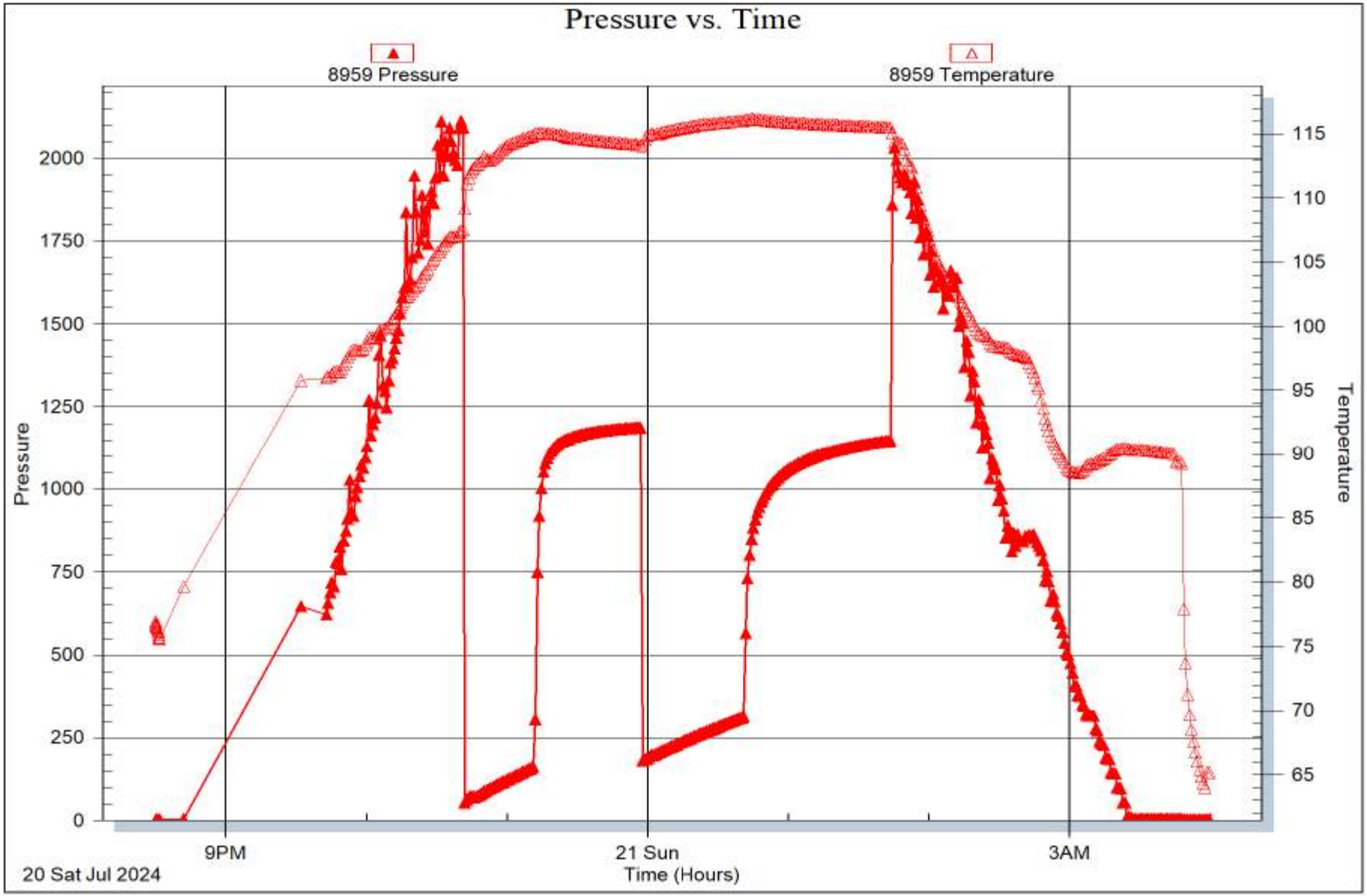
Recovery Comments: RW=.503 @ 66 degs = 14,500 PPM

Serial #: 8734 **Outside** Ritchie Exploration INC #1 Mollenkamp Trust DST Test Number: 2



Trilobite Testing, Inc Ref. No: 71822 Printed: 2024.07.21 @ 07:48:10

Serial #: 8959 **Inside** Ritchie Exploration INC #1 Mollenkamp Trust DST Test Number: 2



Trilobite Testing, Inc Ref. No: 71822 Printed: 2024.07.21 @ 07:48:10

DRILL STEM TEST REPORT

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71823 **DST#: 3**

Test Start: 2024.07.22 @ 10:35:00

GENERAL INFORMATION:

Formation: **Altamont**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:21:30
Time Test Ended: 16:52:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4447.00 ft (KB) To 4478.00 ft (KB) (TVD)
Total Depth: 4478.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

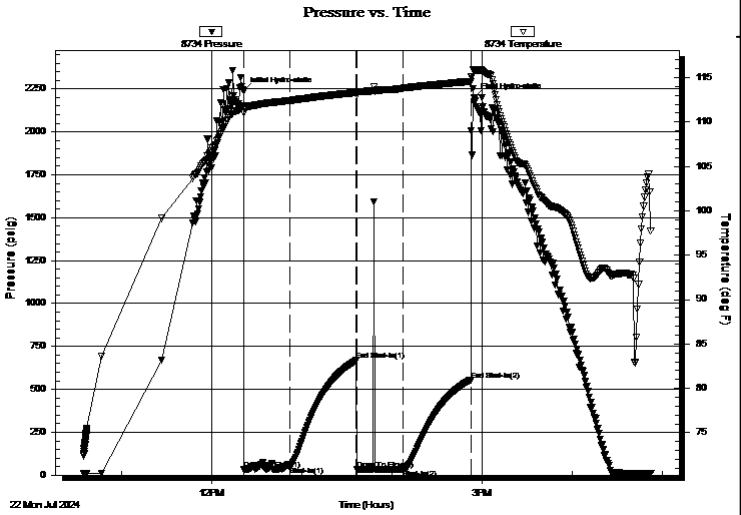
Reference Elevations: 3308.00 ft (KB)
3299.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 33.39 psig @ 4448.00 ft (KB)
Start Date: 2024.07.22 End Date: 2024.07.22
Start Time: 10:35:01 End Time: 16:52:00

Capacity: 8000.00 psig
Last Calib.: 2024.07.22
Time On Btm: 2024.07.22 @ 12:21:20
Time Off Btm: 2024.07.22 @ 14:54:50

TEST COMMENT: 30-IF-Weak surface bubbles dead @ 7 mins
45-ISI-No return
30-FF-No blow @ 10 mins,Flushed tool, died again @ 4 mins
45-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2237.46	111.80	Initial Hydro-static
1	32.78	110.98	Open To Flow (1)
31	48.55	112.44	Shut-In(1)
75	668.27	113.31	End Shut-In(1)
76	32.57	113.01	Open To Flow (2)
106	33.39	113.79	Shut-In(2)
151	555.04	114.57	End Shut-In(2)
154	2197.50	115.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud w/Oil spots	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71823 **DST#: 3**

Test Start: 2024.07.22 @ 10:35:00

GENERAL INFORMATION:

Formation: **Altamont**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:21:30
Time Test Ended: 16:52:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4447.00 ft (KB) To 4478.00 ft (KB) (TVD)
Total Depth: 4478.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

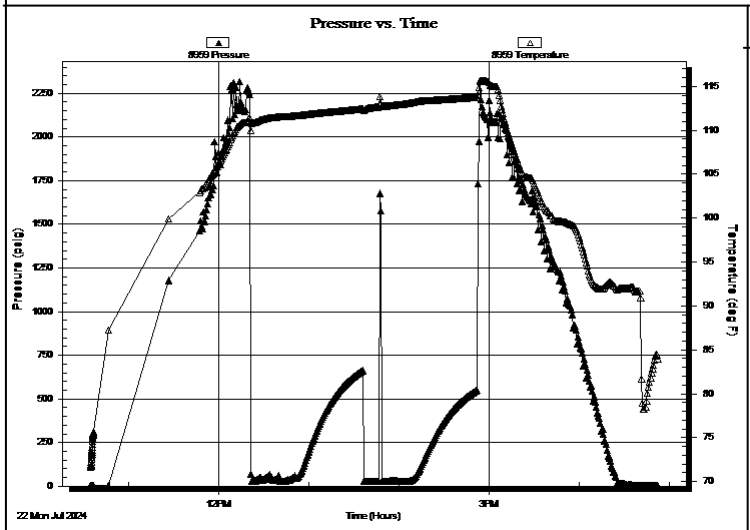
Reference Elevations: 3308.00 ft (KB)
3299.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4448.00 ft (KB)
Start Date: 2024.07.22 End Date: 2024.07.22
Start Time: 10:35:01 End Time: 16:52:00

Capacity: 8000.00 psig
Last Calib.: 2024.07.22
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Weak surface bubbles dead @ 7 mins
45-ISI-No return
30-FF-No blow @ 10 mins,Flushed tool, died again @ 4 mins
45-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud w/Oil spots	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71823 **DST#: 3**

Test Start: 2024.07.22 @ 10:35:00

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:	65.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

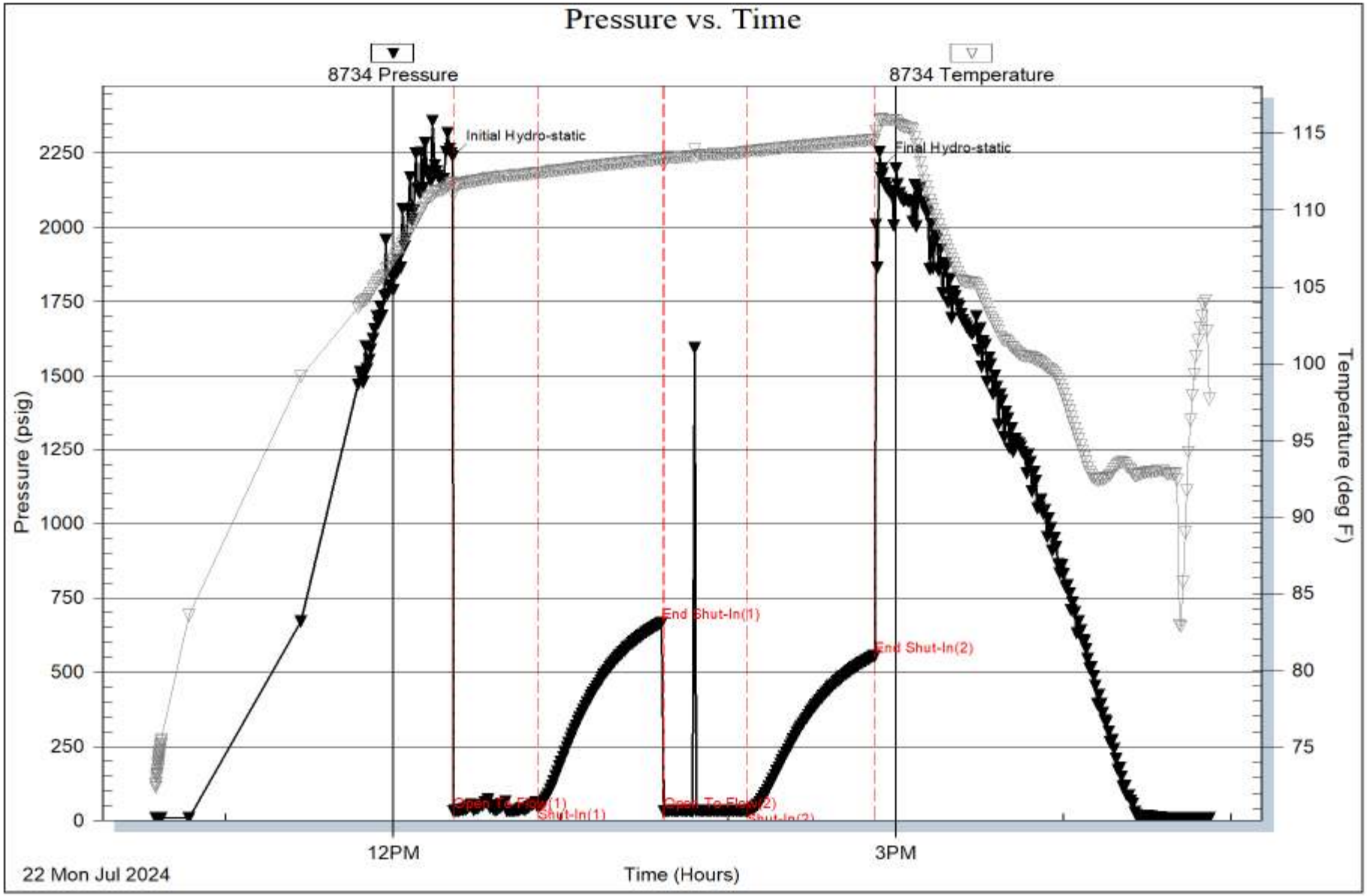
Recovery Table

Length ft	Description	Volume bbl
5.00	100%Mud w /Oil spots	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

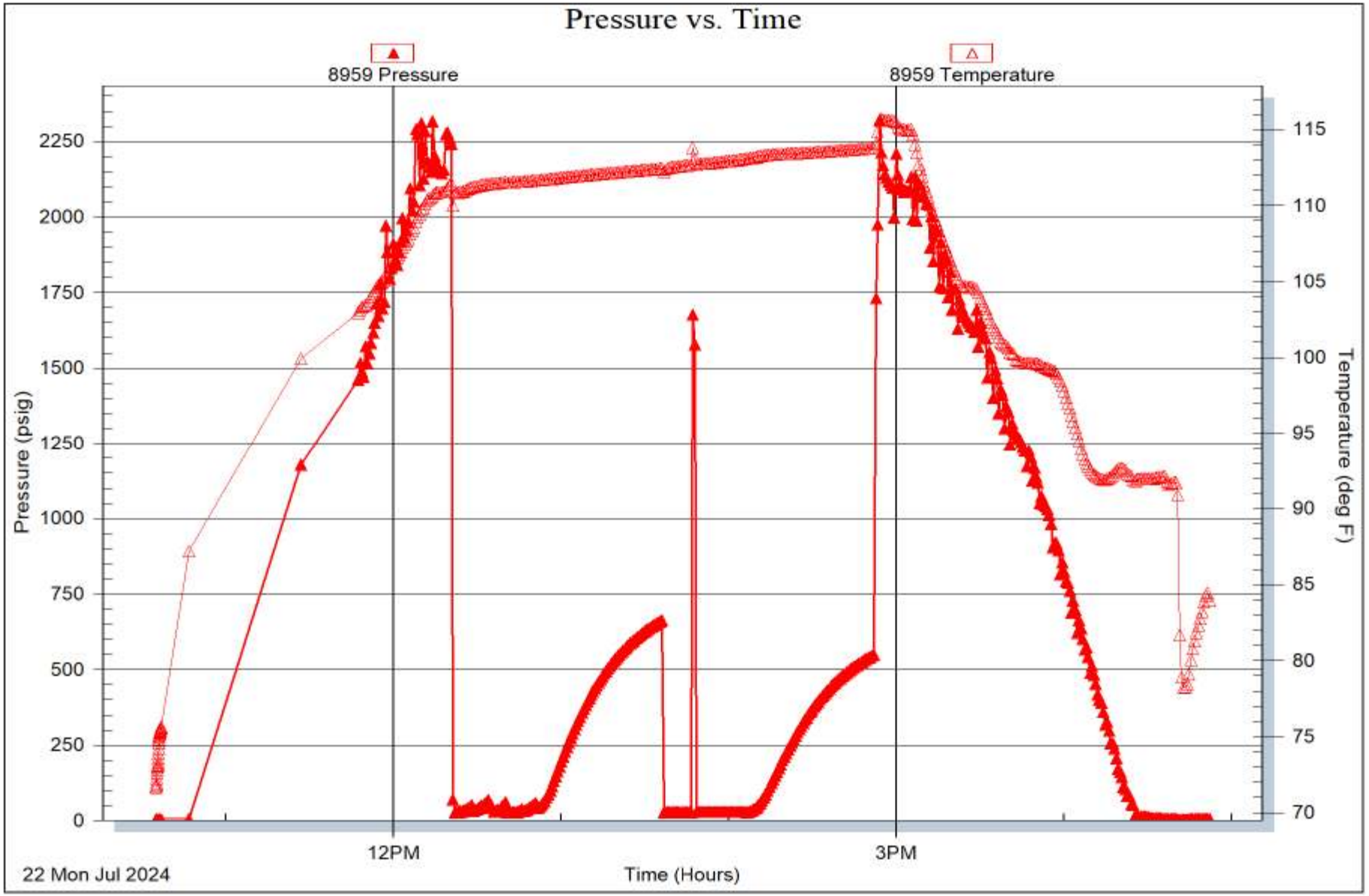
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8734 **Outside** Ritchie Exploration INC #1 Mollenkamp Trust DST Test Number: 3



Trilobite Testing, Inc Ref. No: 71823 Printed: 2024.07.22 @ 17:06:36

Serial #: 8959 **Inside** Ritchie Exploration INC #1 Mollenkamp Trust DST Test Number: 3



Trilobite Testing, Inc Ref. No: 71823 Printed: 2024.07.22 @ 17:06:36

DRILL STEM TEST REPORT

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71824 **DST#: 4**

Test Start: 2024.07.23 @ 00:36:00

GENERAL INFORMATION:

Formation: **Altamont " B "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:50:20
Time Test Ended: 08:43:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4476.00 ft (KB) To 4491.00 ft (KB) (TVD)
Total Depth: 4491.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

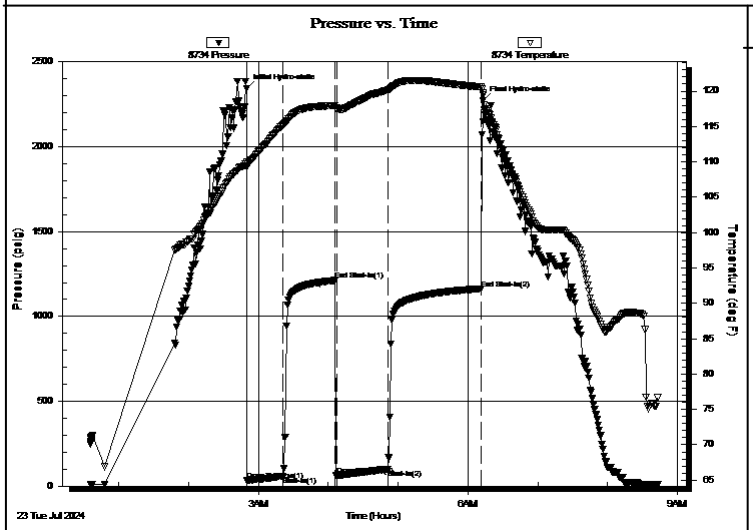
Reference Elevations: 3308.00 ft (KB)
3299.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 99.95 psig @ 4477.00 ft (KB)
Start Date: 2024.07.23 End Date: 2024.07.23
Start Time: 00:36:01 End Time: 08:43:30

Capacity: 8000.00 psig
Last Calib.: 2024.07.23
Time On Btm: 2024.07.23 @ 02:50:00
Time Off Btm: 2024.07.23 @ 06:13:09

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 23 mins (blow built to 13 1/2")
45-ISI-Return @ 7 mins built to 1/2" died @ 40 mins
45-FF-B.O.B @ 25 mins (blow built to 15 3/4")
60-FSI-Return @ 4 mins built to 3/4" died @ 52 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2342.45	110.00	Initial Hydro-static
1	32.76	109.33	Open To Flow (1)
31	59.21	115.17	Shut-In(1)
77	1212.58	117.92	End Shut-In(1)
78	62.47	117.58	Open To Flow (2)
121	99.95	120.10	Shut-In(2)
201	1163.86	120.57	End Shut-In(2)
204	2271.46	119.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOCM 25%G, 20%O, 55%M	0.21
185.00	CGO 19%G, 81%O	2.60
0.00	315' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71824 **DST#: 4**

Test Start: 2024.07.23 @ 00:36:00

GENERAL INFORMATION:

Formation: **Altamont " B "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:50:20
Time Test Ended: 08:43:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4476.00 ft (KB) To 4491.00 ft (KB) (TVD)
Total Depth: 4491.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

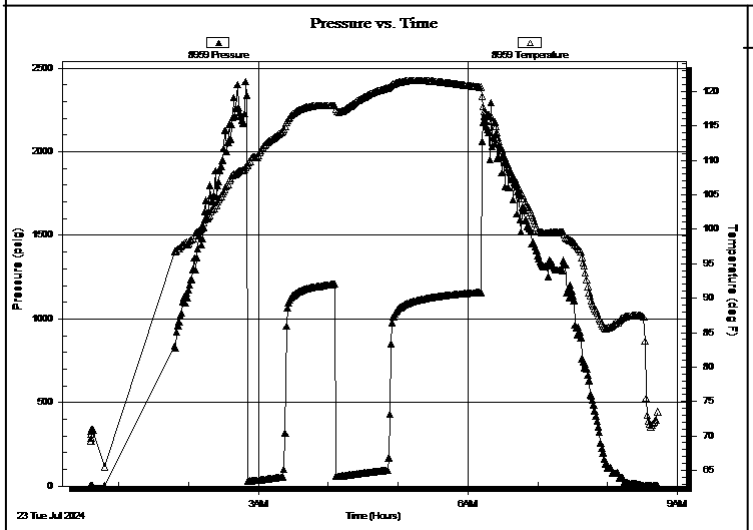
Reference Elevations: 3308.00 ft (KB)
3299.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4477.00 ft (KB)
Start Date: 2024.07.23 End Date: 2024.07.23
Start Time: 00:36:01 End Time: 08:43:30

Capacity: 8000.00 psig
Last Calib.: 2024.07.23
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-B.O.B (11 inches) @ 23 mins (blow built to 13 1/2")
45-ISI-Return @ 7 mins built to 1/2" died @ 40 mins
45-FF-B.O.B @ 25 mins (blow built to 15 3/4")
60-FSI-Return @ 4 mins built to 3/4" died @ 52 mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOCM 25%G, 20%O, 55%M	0.21
185.00	CGO 19%G, 81%O	2.60
0.00	315' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration INC

8100 E 22ND ST
N 700
Wichita,KS 67278
ATTN: Max Lovely

14-15-36W. Logan,KS

#1 Mollenkamp Trust

Job Ticket: 71824 **DST#: 4**

Test Start: 2024.07.23 @ 00:36:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	31.4 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	68.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

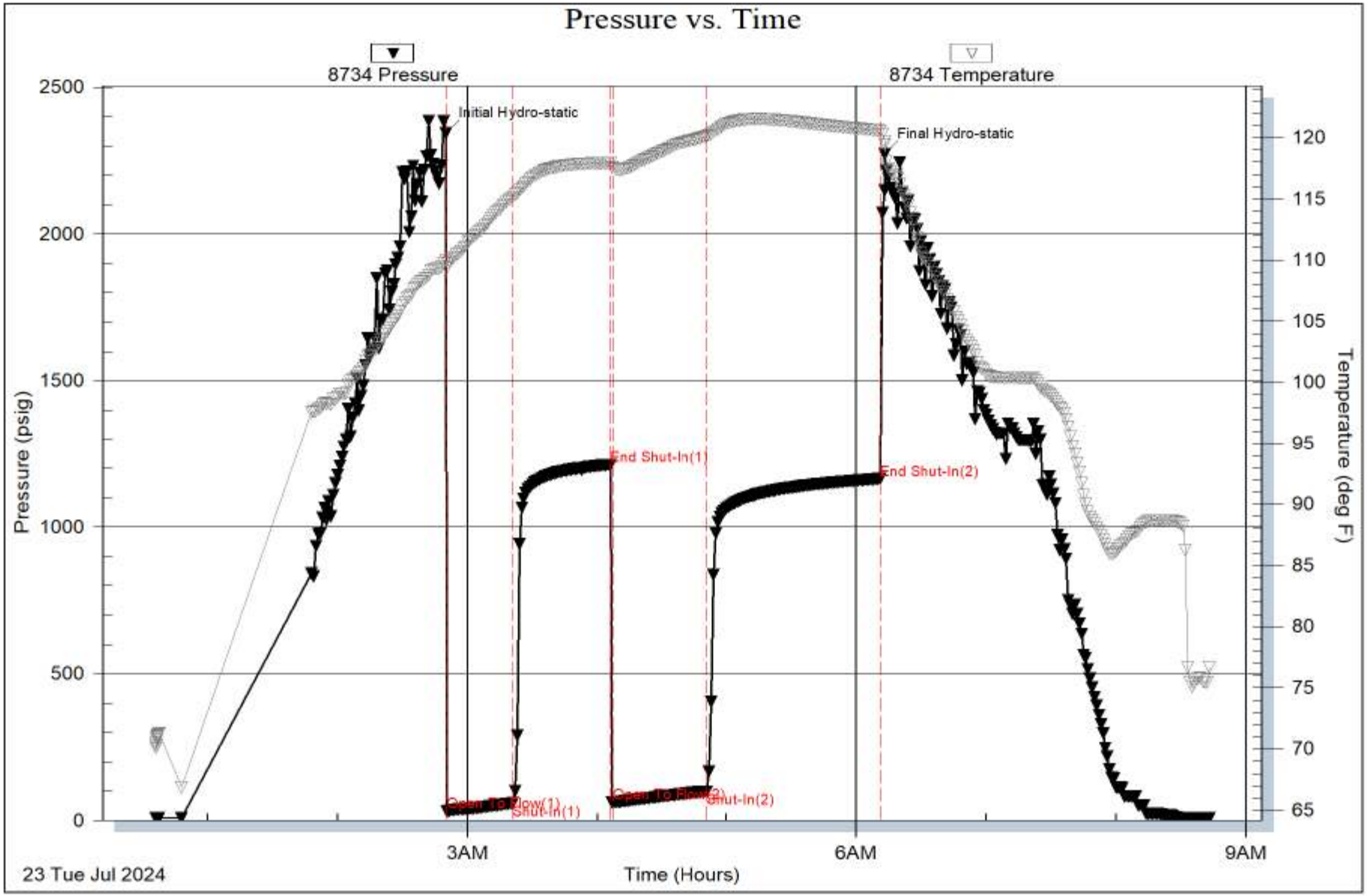
Length ft	Description	Volume bbl
15.00	GOCM 25%G, 20%O, 55%M	0.210
185.00	CGO 19%G, 81%O	2.595
0.00	315' GIP	0.000

Total Length: 200.00 ft Total Volume: 2.805 bbl

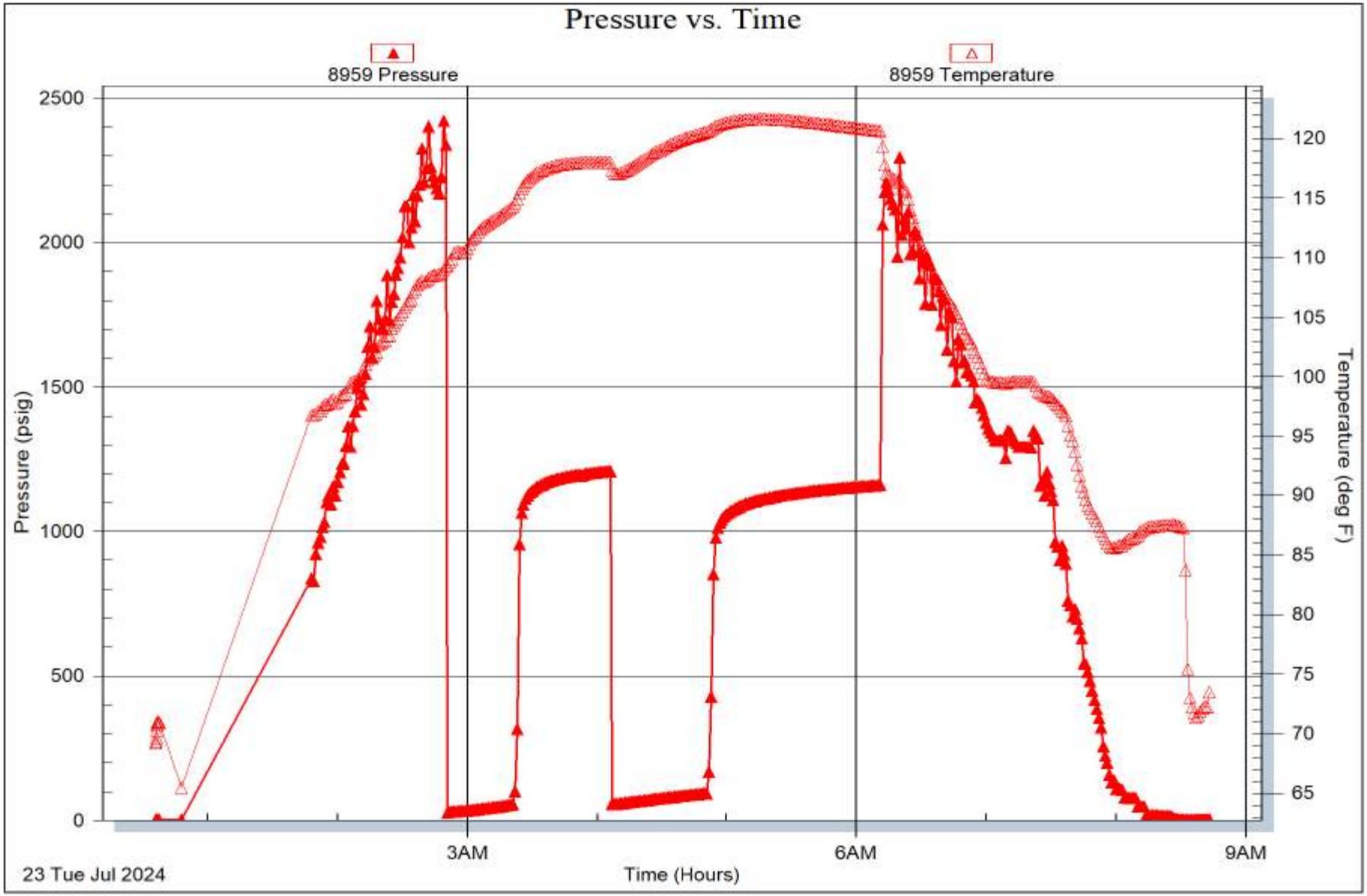
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity of oil = 33.4 @ 80 degs corrected to 31.4 @ 60 degs


Pressure vs. Time
8734 Pressure
8734 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2500
2000
1500
1000
500
0
120
115
110
105
100
95
90
85
80
75
70
65
3AM
6AM
9AM
Time (Hours)
23 Tue Jul 2024

Serial #: 8959 **Inside** Ritchie Exploration INC #1 Mollenkamp Trust DST Test Number: 4



Trilobite Testing, Inc Ref. No: 71824 Printed: 2024.07.23 @ 09:58:56

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

Max R. Lowrey

COMPANY	Electra Exploration
FIELD	Prairie Dog Creek
WELL NO.	1-15
LOCATION	330' FNL & 330' FWL
SEC.	15
TWP.	3N
RGE.	38W
CONTRACTOR	Quality Drlg. Rig #3
SPUD	5/17/84
COMPLETED	5/26/84
TOTAL DEPTH	4900'
ELEVATION	3272' GL 3287' KB
CASING	8-5/8" @ 1234' w/ 550 sx
SAMPLES	30' from 2600' to TD
DRILLING TIME	10' from 2600' to TD
ELECTRIC LOGS	DIL, CNL/FDC
DRILL STEM TESTS	3
FORMATION TOPS	See Tabulation Below
STATUS	Oil Well

FORMATION	SAMPLE TOP	DATUM	LOG TOP	DATUM
Anhydrite	1978	+1309	1974	+1313
Base Anhydrite	2018	+1269	2016	+1271
Topeka	3488	-201	3486	-199
Heebner	3709	-422	3707	-420
Toronto	3730	-443	3728	-441
Lansing	3748	-461	3746	-459
Base Kansas City	4000	-713	3998	-711
Marmaton	4022	-735	4020	-733
Altamont	4076	-789	4074	-787
Pawnee	4144	-857	4142	-855
Fort Scott	4199	-912	4197	-910
Cherokee	4227	-940	4225	-938
Base Penn. Lime	4298	-1011	4296	-1009
Mississippian	4322	-1035	4320	-1033
Kinderhook	4360	-1073	4358	-1071
Viola	4384	-1097	4382	-1095
Simpson	4400	-1113	4398	-1111
Simpson Sand	4414	-1127	4412	-1125
Arbuckle	4470	-1183	4468	-1181
RTD	4900	-1613		
LTD			4898	-1611

REMARKS:

LEGEND

Anhydrite | Salt | Sandstone | Shale | Cherty | Limestone | Oolitic/Fossil | Chert | Dolomite | Colorado

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Increases →
5" 10" 15" 20" 30" 60"

DEPTH	SAMPLE DESCRIPTIONS	SHOWS	REMARKS
2600			
3600			
3700			
3800			
3900			
4000			
4100			
4200			
4300			
4400			
4500			
4600			
4700			
4800			
4900			
DEPTH	SAMPLE DESCRIPTIONS	SHOWS	REMARKS