

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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DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Coberly NNN #3

11-14s- 29w Gove,KS

Start Date: 2022.04.09 @ 03:07:00

End Date: 2022.04.09 @ 11:43:15

Job Ticket #: 68074 DST #: 1

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

Printed: 2022.04.19 @ 11:46:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

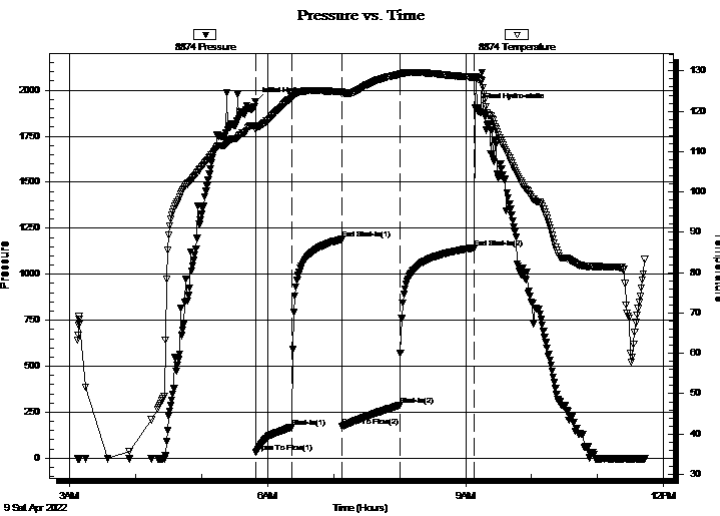
11-14s- 29w Gove,KS
Coberly NNN #3
Job Ticket: 68074 **DST#: 1**
Test Start: 2022.04.09 @ 03:07:00

GENERAL INFORMATION:

Formation: **LKC E+ F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:49:15
Time Test Ended: 11:43:15
Interval: **3914.00 ft (KB) To 3948.00 ft (KB) (TVD)**
Total Depth: 3948.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 78
Reference Elevations: 2725.00 ft (KB)
2714.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8874 Outside
Press@RunDepth: 288.19 psig @ 3915.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.04.09 End Date: 2022.04.09 Last Calib.: 2022.04.09
Start Time: 03:07:05 End Time: 11:43:15 Time On Btm: 2022.04.09 @ 05:48:45
Time Off Btm: 2022.04.09 @ 09:10:15

TEST COMMENT: 30- IF: BOB @ 16 min - 15 3/4".
45- IS: No return.
45- FF: 23 1/4" blow .
60- FS: 1/4" return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.16	116.48	Initial Hydro-static
1	30.81	115.53	Open To Flow (1)
34	169.51	123.44	Shut-In(1)
79	1189.78	124.86	End Shut-In(1)
79	173.68	124.37	Open To Flow (2)
132	288.19	129.15	Shut-In(2)
199	1143.49	128.43	End Shut-In(2)
202	1903.01	128.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
580.00	mcw 2m 98w (oil spots)	6.18
20.00	oil 100 oil	0.28

Gas Rates

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



DRILL STEM TEST REPORT

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

11-14s- 29w Gove,KS
Coberly NNN #3
Job Ticket: 68074 **DST#: 1**
Test Start: 2022.04.09 @ 03:07:00

GENERAL INFORMATION:

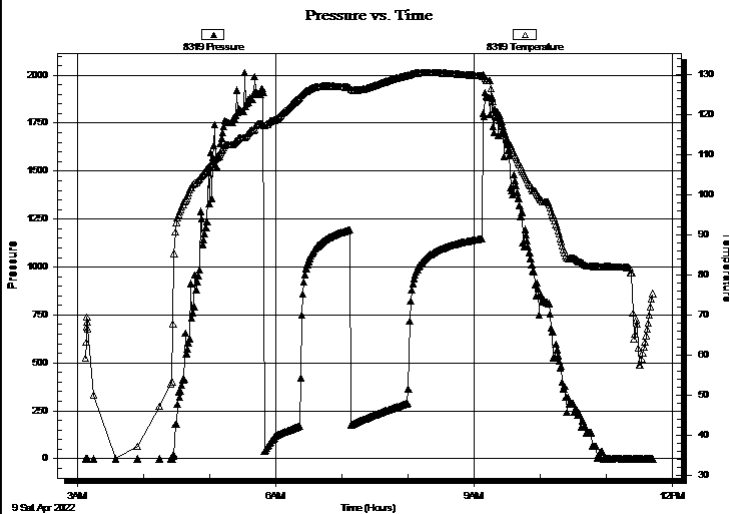
Formation: **LKC E+ F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:49:15
 Time Test Ended: 11:43:15
 Interval: **3914.00 ft (KB) To 3948.00 ft (KB) (TVD)**
 Total Depth: 3948.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2725.00 ft (KB)
 2714.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8319

Inside

Press@RunDepth: psig @ 3915.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2022.04.09	End Date: 2022.04.09
Start Time: 03:07:05	End Time: 11:43:15
	Last Calib.: 2022.04.09
	Time On Btm:
	Time Off Btm:

TEST COMMENT: 30- IF: BOB @ 16 min - 15 3/4".
 45- IS: No return.
 45- FF: 23 1/4" blow .
 60- FS: 1/4" return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
580.00	mcw 2m 98w (oil spots)	6.18
20.00	oil 100 oil	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68074

DST#: 1

ATTN: Max Lovely

Test Start: 2022.04.09 @ 03:07:00

Tool Information

Drill Pipe:	Length: 3696.00 ft	Diameter: 3.80 inches	Volume: 51.85 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 52.91 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	3914.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	64.00 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			3885.00	
Shut In Tool	5.00			3890.00	
Hydraulic tool	5.00			3895.00	
Jars	5.00			3900.00	
EM Tool	3.00			3903.00	
Safety Joint	2.00			3905.00	
Packer	5.00			3910.00	30.00 Bottom Of Top Packer
Packer	4.00			3914.00	
Stubb	1.00			3915.00	
Recorder	0.00	8319	Inside	3915.00	
Recorder	0.00	8874	Outside	3915.00	
Perforations	30.00			3945.00	
Bullnose	3.00			3948.00	34.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68074

DST#: 1

ATTN: Max Lovely

Test Start: 2022.04.09 @ 03:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
580.00	mcw 2m 98w (oil spots)	6.177
20.00	oil 100 oil	0.281

Total Length: 600.00 ft Total Volume: 6.458 bbl

Num Fluid Samples: 0

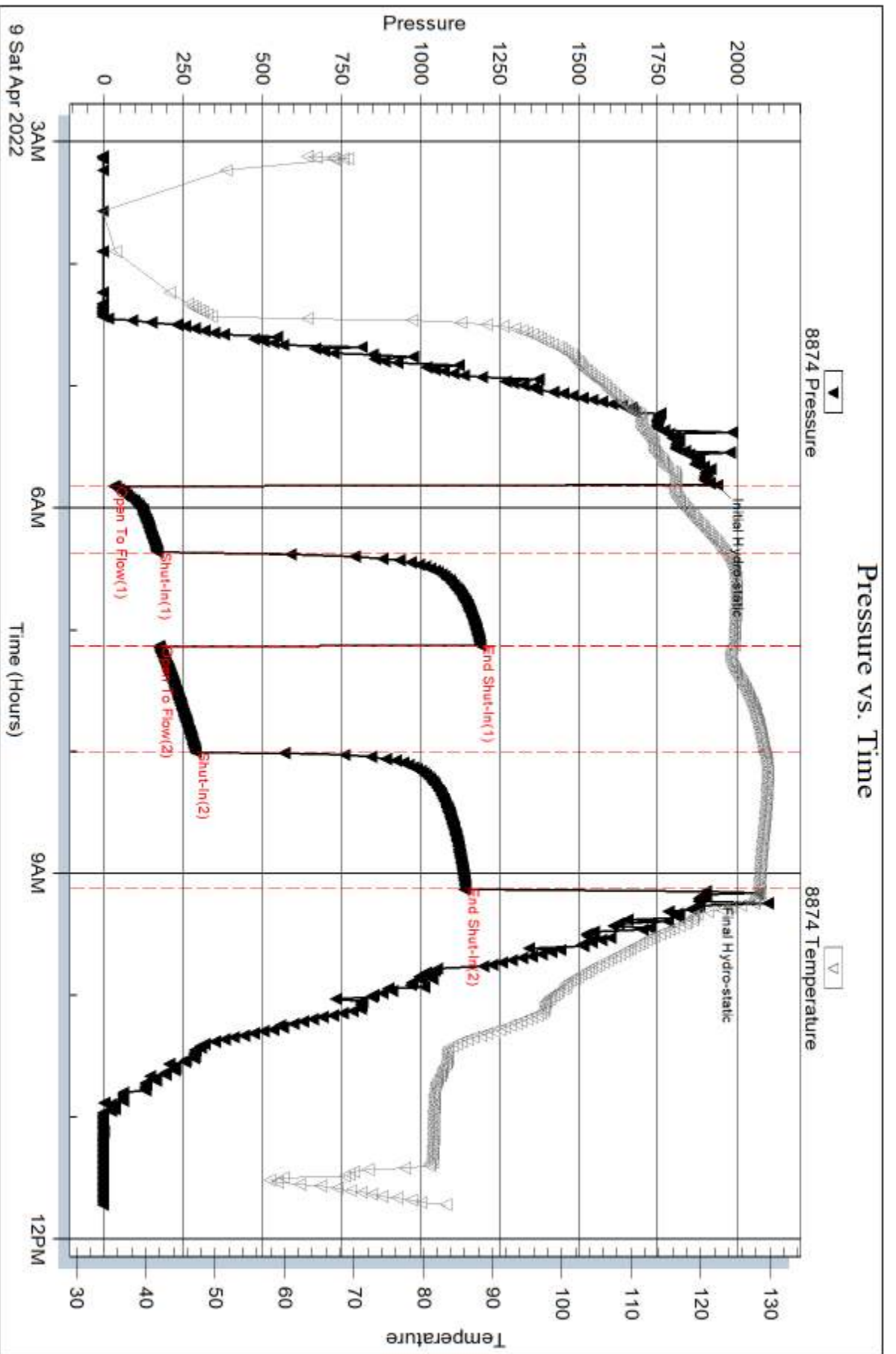
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .220 @ 72f = 32000ppm



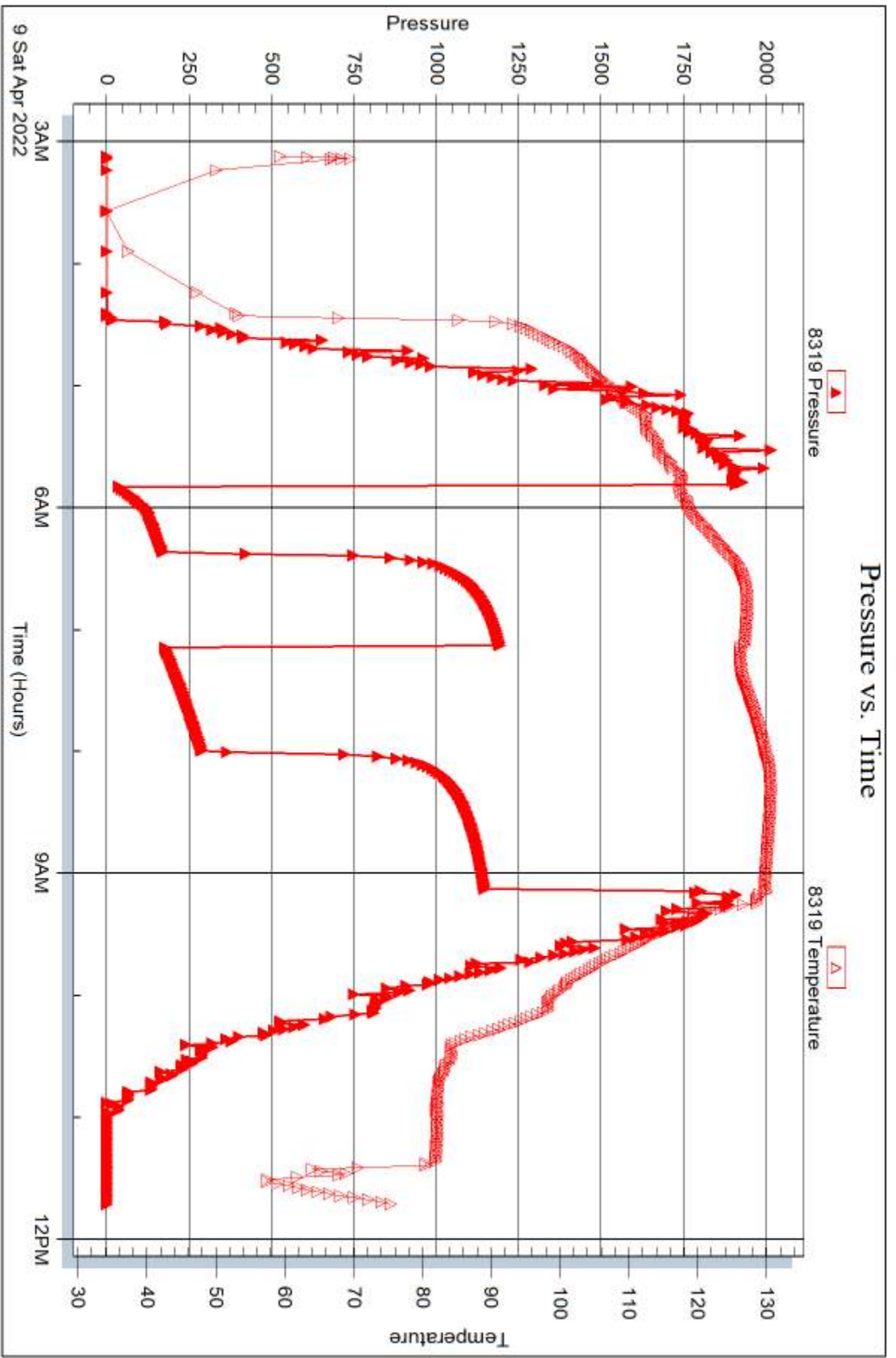
Serial #: 8319

Inside

Richie Exploration

Coberly NNN#3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Coberly NNN #3

11-14s- 29w Gove,KS

Start Date: 2022.04.10 @ 03:46:00

End Date: 2022.04.10 @ 12:52:45

Job Ticket #: 68075 DST #: 2

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

Printed: 2022.04.19 @ 11:46:09

Ritchie Exploration
11-14s- 29w Gove,KS
Coberly NNN #3
DST # 2
LKC H - I
2022.04.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

11-14s- 29w Gove,KS
Coberly NNN #3
Job Ticket: 68075 **DST#: 2**
Test Start: 2022.04.10 @ 03:46:00

GENERAL INFORMATION:

Formation: **LKC H- I**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 07:43:15 Tester: Bradley Walter
Time Test Ended: 12:52:45 Unit No: 78
Interval: 4003.00 ft (KB) To 4056.00 ft (KB) (TVD) Reference Elevations: 2725.00 ft (KB)
Total Depth: 4056.00 ft (KB) (TVD) 2714.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8874 Outside
Press@RunDepth: 116.52 psig @ 4004.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.04.10 End Date: 2022.04.10 Last Calib.: 2022.04.10
Start Time: 03:46:05 End Time: 12:52:45 Time On Btm: 2022.04.10 @ 07:42:45
Time Off Btm: 2022.04.10 @ 10:55:30

TEST COMMENT: 30- IF: 8" blow ,
45- IS: No return.
45- FF: 8" blow .
60- FS: No return.

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.26	120.76	Initial Hydro-static
1	22.15	119.70	Open To Flow (1)
32	72.91	124.34	Shut-In(1)
76	1550.51	124.56	End Shut-In(1)
77	78.03	124.20	Open To Flow (2)
121	116.52	126.58	Shut-In(2)
192	1565.60	127.00	End Shut-In(2)
193	1902.90	127.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
230.00	gocm 40g 20o 40m	1.27

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68075

DST#: 2

ATTN: Max Lovely

Test Start: 2022.04.10 @ 03:46:00

GENERAL INFORMATION:

Formation: **LKC H- I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:43:15

Time Test Ended: 12:52:45

Interval: 4003.00 ft (KB) To 4056.00 ft (KB) (TVD)

Total Depth: 4056.00 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: 2725.00 ft (KB)

2714.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8319

Inside

Press@RunDepth: psig @ 4004.00 ft (KB)

Start Date: 2022.04.10

End Date:

2022.04.10

Capacity: 8000.00 psig

Last Calib.:

1899.12.30

Start Time: 03:46:05

End Time:

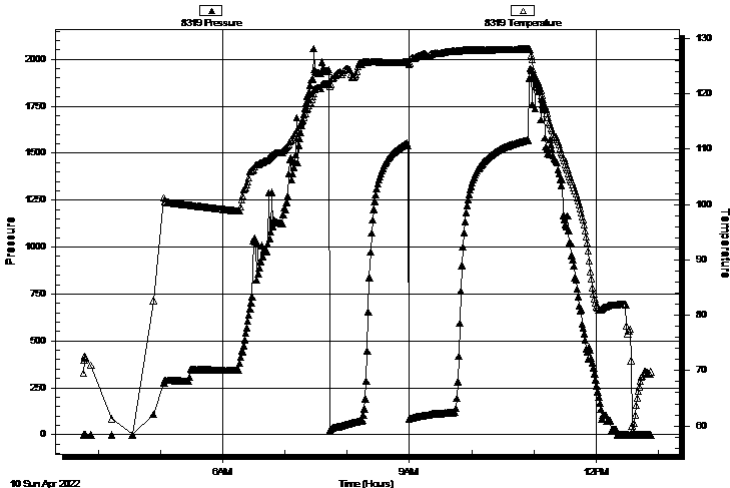
12:53:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF: 8" blow,
45- IS: No return.
45- FF: 8" blow.
60- FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
230.00	gocm 40g 20o 40m	1.27

* 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

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68075

DST#: 2

ATTN: Max Lovely

Test Start: 2022.04.10 @ 03:46:00

Tool Information

Drill Pipe:	Length: 3790.00 ft	Diameter: 3.80 inches	Volume: 53.16 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4003.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3974.00	
Shut In Tool	5.00			3979.00	
Hydraulic tool	5.00			3984.00	
Jars	5.00			3989.00	
EM Tool	3.00			3992.00	
Safety Joint	2.00			3994.00	
Packer	5.00			3999.00	30.00 Bottom Of Top Packer
Packer	4.00			4003.00	
Stubb	1.00			4004.00	
Recorder	0.00	8319	Inside	4004.00	
Recorder	0.00	8874	Outside	4004.00	
Perforations	16.00			4020.00	
Change Over Sub	1.00			4021.00	
Drill Pipe	31.00			4052.00	
Change Over Sub	1.00			4053.00	
Bullnose	3.00			4056.00	53.00 Bottom Packers & Anchor
Total Tool Length:	83.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68075

DST#: 2

ATTN: Max Lovely

Test Start: 2022.04.10 @ 03:46:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 71.75 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 bbl
230.00	gocm 40g 20o 40m	1.268

Total Length: 230.00 ft Total Volume: 1.268 bbl

Num Fluid Samples: 0

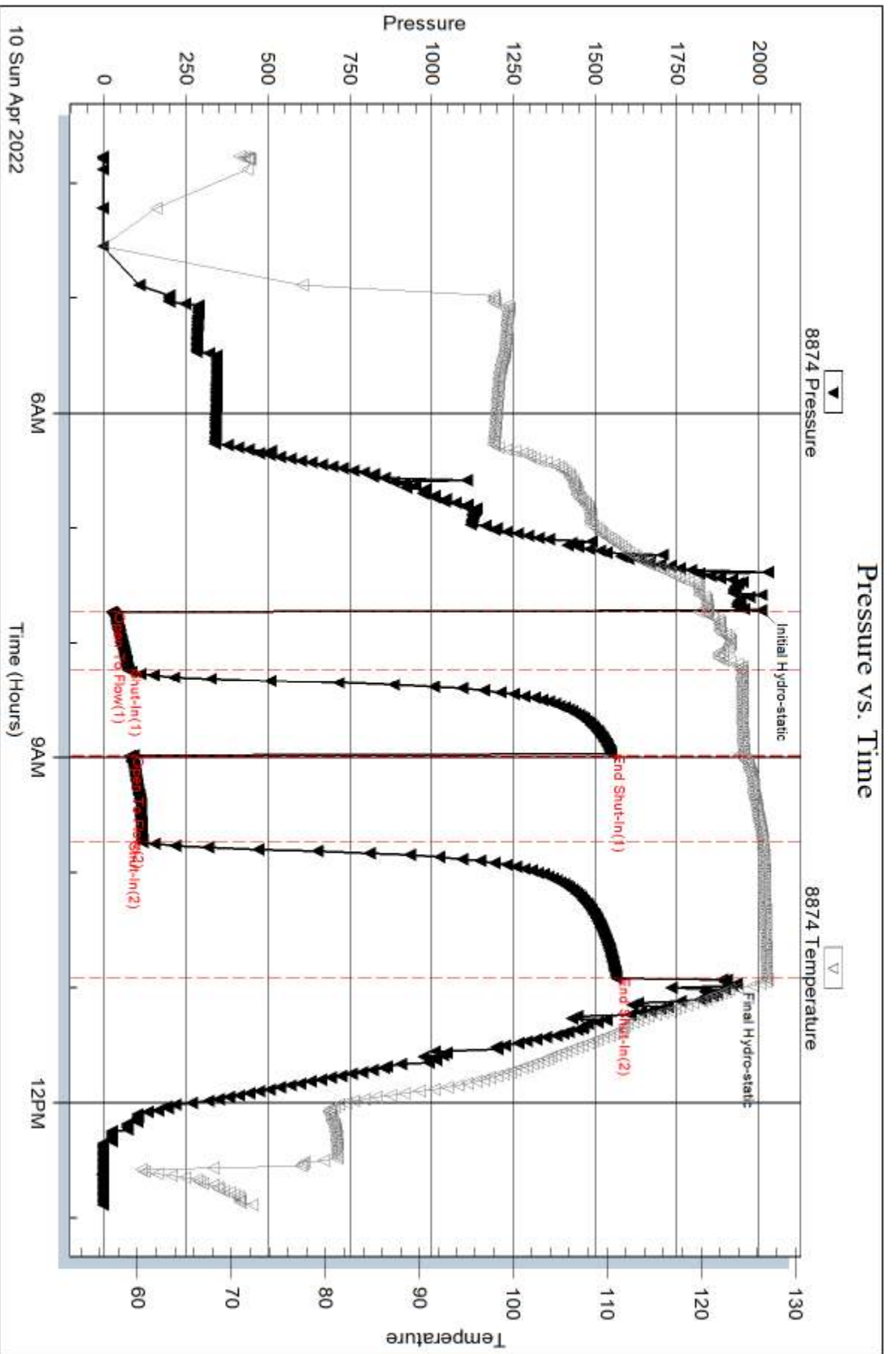
Num Gas Bombs: 0

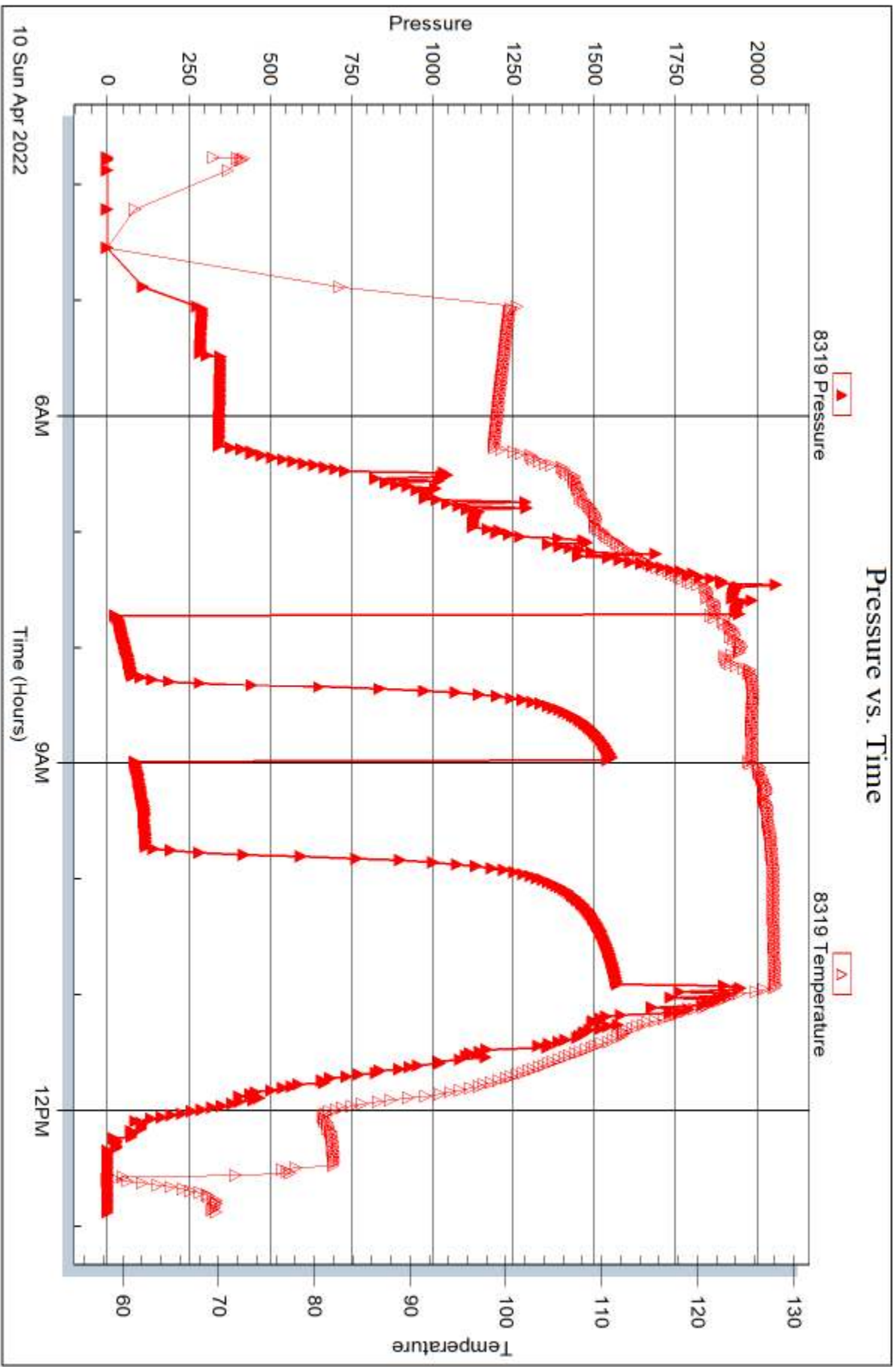
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Coberly NNN #3

11-14s- 29w Gove,KS

Start Date: 2022.04.10 @ 23:36:00

End Date: 2022.04.11 @ 07:04:00

Job Ticket #: 68076 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.04.19 @ 11:45:42



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

11-14s- 29w Gove,KS
Coberly NNN #3
 Job Ticket: 68076 **DST#: 3**
 Test Start: 2022.04.10 @ 23:36:00

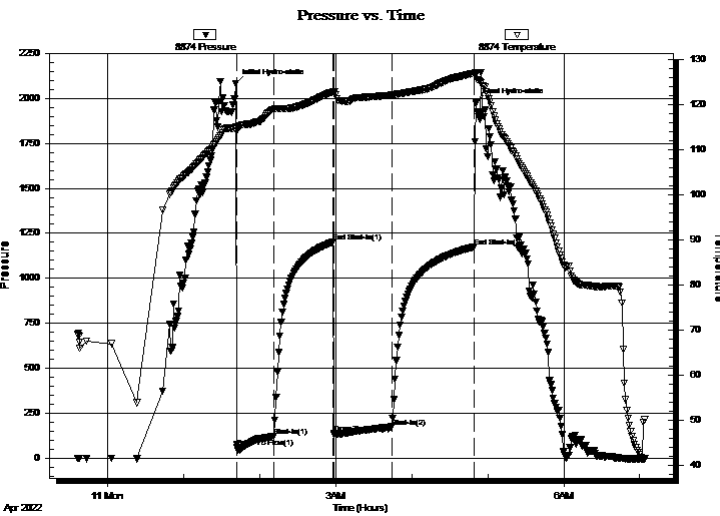
GENERAL INFORMATION:

Formation: **LKC J - K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:41:30
 Time Test Ended: 07:04:00
 Interval: **4064.00 ft (KB) To 4110.00 ft (KB) (TVD)**
 Total Depth: 4064.00 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: 2725.00 ft (KB)
 2714.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8874 Outside

Press@RunDepth: 173.85 psig @ 4065.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.04.10 End Date: 2022.04.11 Last Calib.: 2022.04.11
 Start Time: 23:36:05 End Time: 07:03:59 Time On Btm: 2022.04.11 @ 01:40:45
 Time Off Btm: 2022.04.11 @ 04:50:30

TEST COMMENT: 30- IF: 21.5" blow .
 45- IS: 3 1/4" return
 45- FF: 28 3/4" blow
 60- FS: 3" return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2082.77	115.05	Initial Hydro-static
1	57.24	114.01	Open To Flow (1)
30	121.33	118.92	Shut-In(1)
77	1201.16	122.84	End Shut-In(1)
78	135.20	122.58	Open To Flow (2)
124	173.85	122.08	Shut-In(2)
189	1172.86	126.93	End Shut-In(2)
190	1976.17	127.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	mcw 5m 95w (oil spots)	2.39
10.00	oil 100o	0.14
0.00	480' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68076

DST#: 3

ATTN: Max Lovely

Test Start: 2022.04.10 @ 23:36:00

GENERAL INFORMATION:

Formation: **LKC J - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:41:30

Time Test Ended: 07:04:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4064.00 ft (KB) To 4110.00 ft (KB) (TVD)

Total Depth: 4064.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2725.00 ft (KB)

2714.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8319

Inside

Press@RunDepth: psig @ 4065.00 ft (KB)

Start Date: 2022.04.10

End Date:

2022.04.11

Start Time: 23:36:05

End Time:

07:03:59

Capacity: 8000.00 psig

Last Calib.:

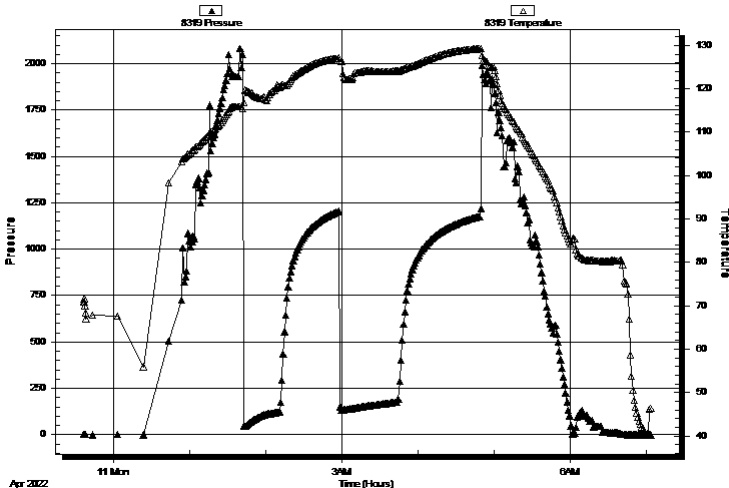
1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF: 21.5" blow .
45- IS: 3 1/4" return
45- FF: 28 3/4" blow
60- FS: 3" return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
310.00	mcw 5m 95w (oil spots)	2.39
10.00	oil 100o	0.14
0.00	480' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68076

DST#: 3

ATTN: Max Lovely

Test Start: 2022.04.10 @ 23:36:00

Tool Information

Drill Pipe:	Length: 3825.00 ft	Diameter: 3.80 inches	Volume: 53.65 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4064.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	76.00 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			4035.00	
Shut In Tool	5.00			4040.00	
Hydraulic tool	5.00			4045.00	
Jars	5.00			4050.00	
EM Tool	3.00			4053.00	
Safety Joint	2.00			4055.00	
Packer	5.00			4060.00	30.00 Bottom Of Top Packer
Packer	4.00			4064.00	
Stubb	1.00			4065.00	
Recorder	0.00	8319	Inside	4065.00	
Recorder	0.00	8874	Outside	4065.00	
Perforations	9.00			4074.00	
Change Over Sub	1.00			4075.00	
Drill Pipe	31.00			4106.00	
Change Over Sub	1.00			4107.00	
Bullnose	3.00			4110.00	46.00 Bottom Packers & Anchor
Total Tool Length:	76.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68076

DST#: 3

ATTN: Max Lovely

Test Start: 2022.04.10 @ 23:36:00

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:

27000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	mcw 5m 95w (oil spots)	2.390
10.00	oil 100o	0.140
0.00	480' GIP	0.000

Total Length: 320.00 ft Total Volume: 2.530 bbl

Num Fluid Samples: 0

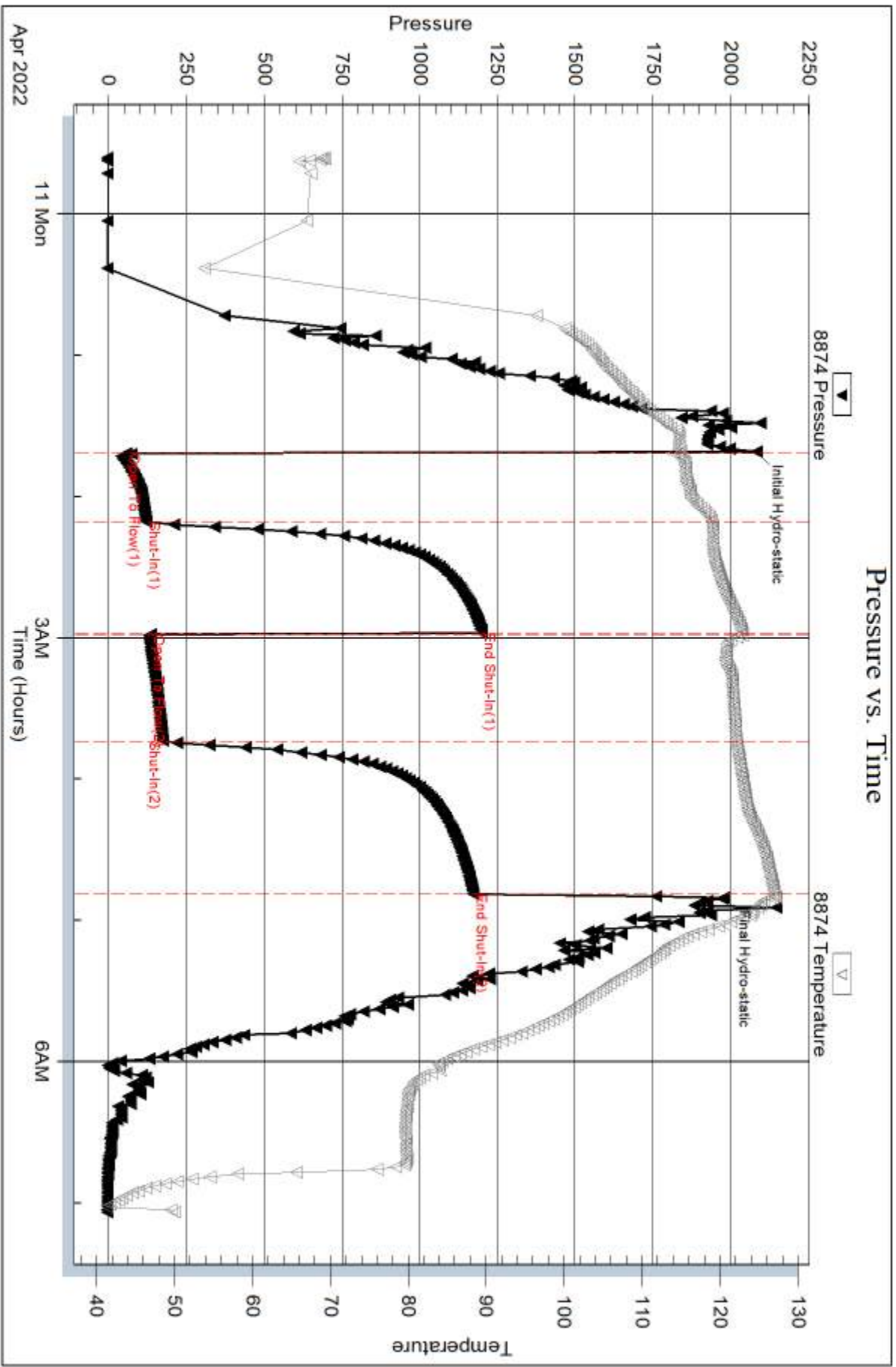
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is ,292 @ 58f = 27000ppm



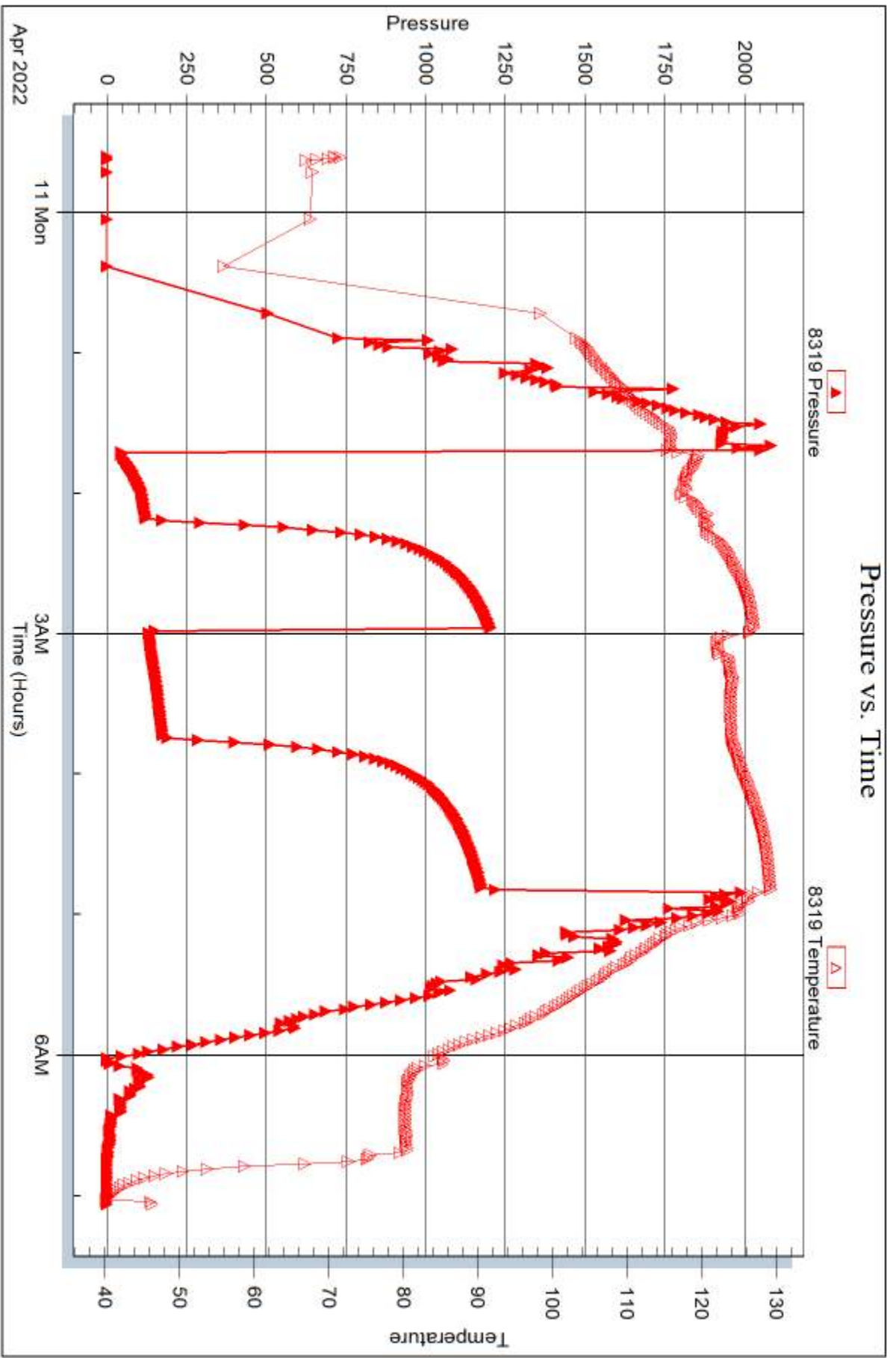
Serial #: 8319

Inside

Richie Exploration

Coberly NNN#3

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68076

Printed: 2022.04.19 @ 11:45:44



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Coberly NNN #3

11-14s- 29w Gove,KS

Start Date: 2022.04.12 @ 23:20:00

End Date: 2022.04.13 @ 07:18:15

Job Ticket #: 68077 DST #: 4

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

Printed: 2022.04.19 @ 11:45:12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

11-14s- 29w Gove,KS
Coberly NNN #3
 Job Ticket: 68077 **DST#: 4**
 Test Start: 2022.04.12 @ 23:20:00

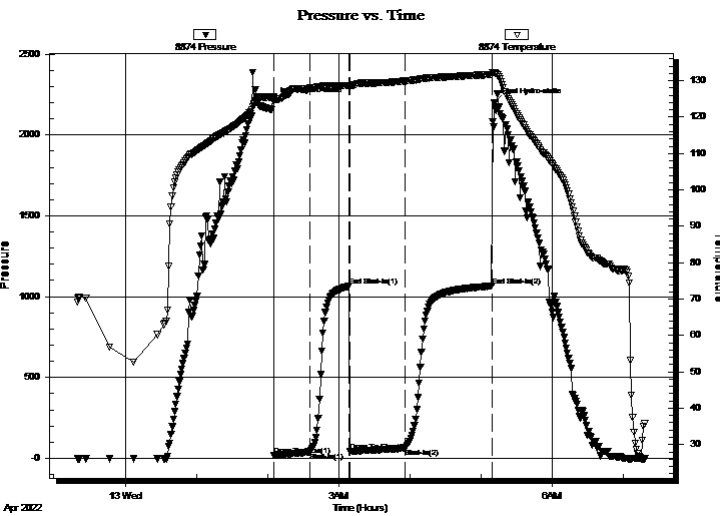
GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:05:30
 Time Test Ended: 07:18:15
 Interval: **4417.00 ft (KB) To 4440.00 ft (KB) (TVD)**
 Total Depth: 4440.00 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: 2725.00 ft (KB)
 2714.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8874 Outside

Press@RunDepth: 61.92 psig @ 4418.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.04.12 End Date: 2022.04.13 Last Calib.: 2022.04.13
 Start Time: 23:20:05 End Time: 07:18:14 Time On Btm: 2022.04.13 @ 02:05:15
 Time Off Btm: 2022.04.13 @ 05:11:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.35	125.55	Initial Hydro-static
1	17.06	124.86	Open To Flow (1)
31	37.50	127.99	Shut-In(1)
64	1064.38	128.70	End Shut-In(1)
65	42.39	128.46	Open To Flow (2)
111	61.92	129.93	Shut-In(2)
184	1065.67	131.72	End Shut-In(2)
186	2200.07	132.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	gocm 20g 25o 55m	0.39
20.00	oil 100o	0.10
0.00	140 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

11-14s- 29w Gove,KS

Coberly NNN #3

Job Ticket: 68077

DST#: 4

Test Start: 2022.04.12 @ 23:20:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:05:30

Time Test Ended: 07:18:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4417.00 ft (KB) To 4440.00 ft (KB) (TVD)**

Reference Elevations: 2725.00 ft (KB)

Total Depth: 4440.00 ft (KB) (TVD)

2714.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8319 Inside

Press@RunDepth: psig @ 4418.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.12

End Date:

2022.04.13

Last Calib.:

2022.04.13

Start Time: 23:20:05

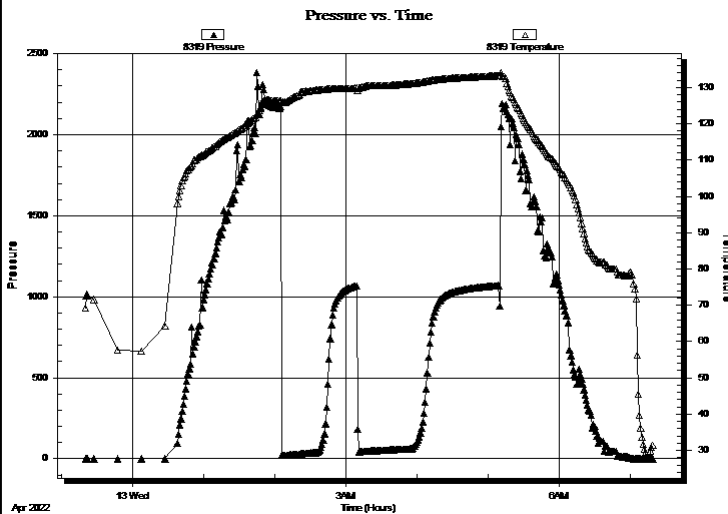
End Time:

07:18:29

Time On Btm:

Time Off Btm:

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



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
80.00	gocm 20g 25o 55m	0.39
20.00	oil 100o	0.10
0.00	140 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68077

DST#: 4

ATTN: Max Lovely

Test Start: 2022.04.12 @ 23:20:00

Tool Information

Drill Pipe:	Length: 4176.00 ft	Diameter: 3.80 inches	Volume: 58.58 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 59.64 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4417.00 ft			Final	72000.00 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			4388.00	
Shut In Tool	5.00			4393.00	
Hydraulic tool	5.00			4398.00	
Jars	5.00			4403.00	
EM Tool	3.00			4406.00	
Safety Joint	2.00			4408.00	
Packer	5.00			4413.00	30.00 Bottom Of Top Packer
Packer	4.00			4417.00	
Stubb	1.00			4418.00	
Recorder	0.00	8319	Inside	4418.00	
Recorder	0.00	8874	Outside	4418.00	
Perforations	19.00			4437.00	
Bullnose	3.00			4440.00	23.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68077

DST#: 4

ATTN: Max Lovely

Test Start: 2022.04.12 @ 23:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	gocm 20g 25o 55m	0.393
20.00	oil 100o	0.098
0.00	140 GIP	0.000

Total Length: 100.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

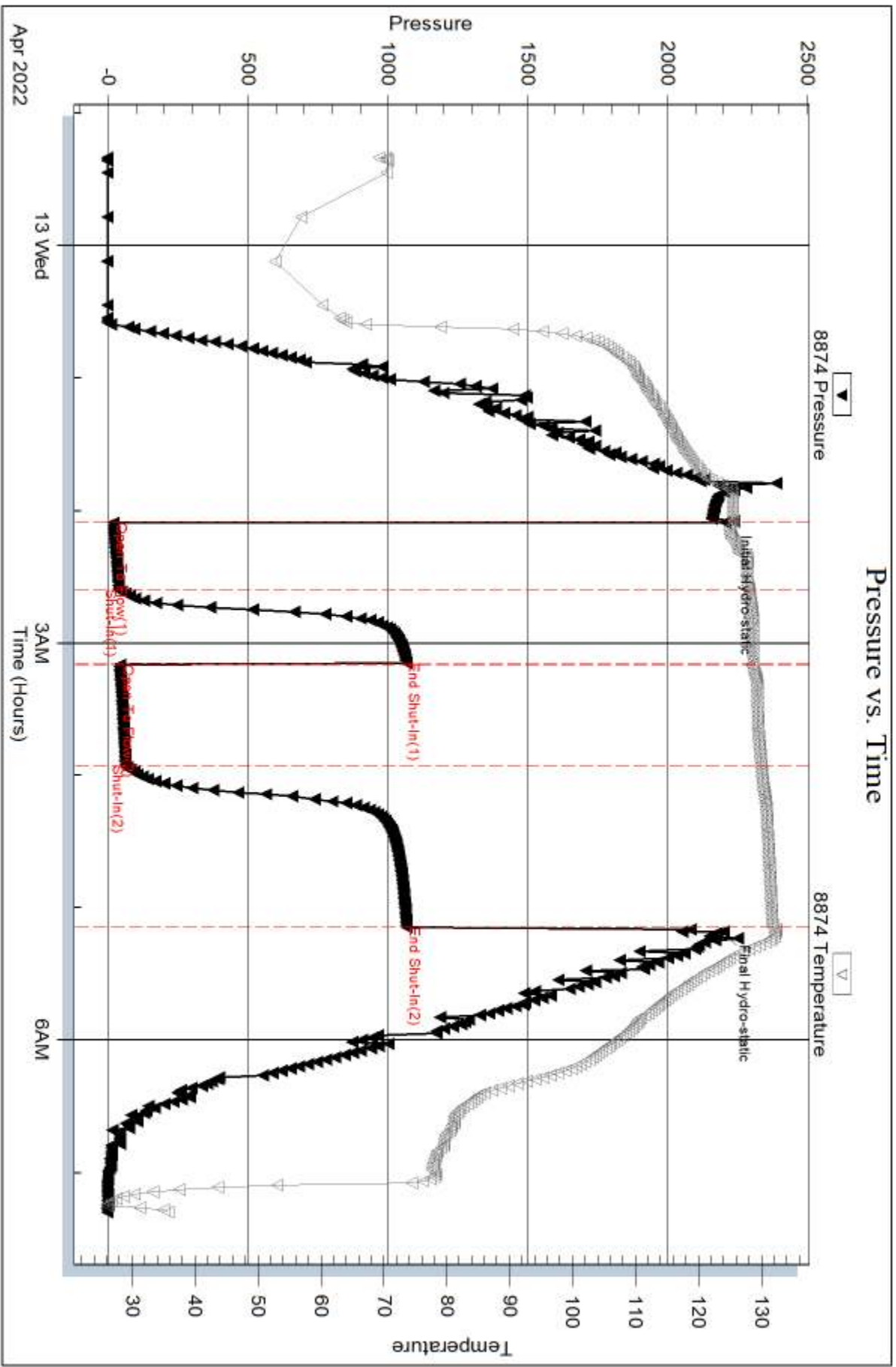
Num Gas Bombs: 0

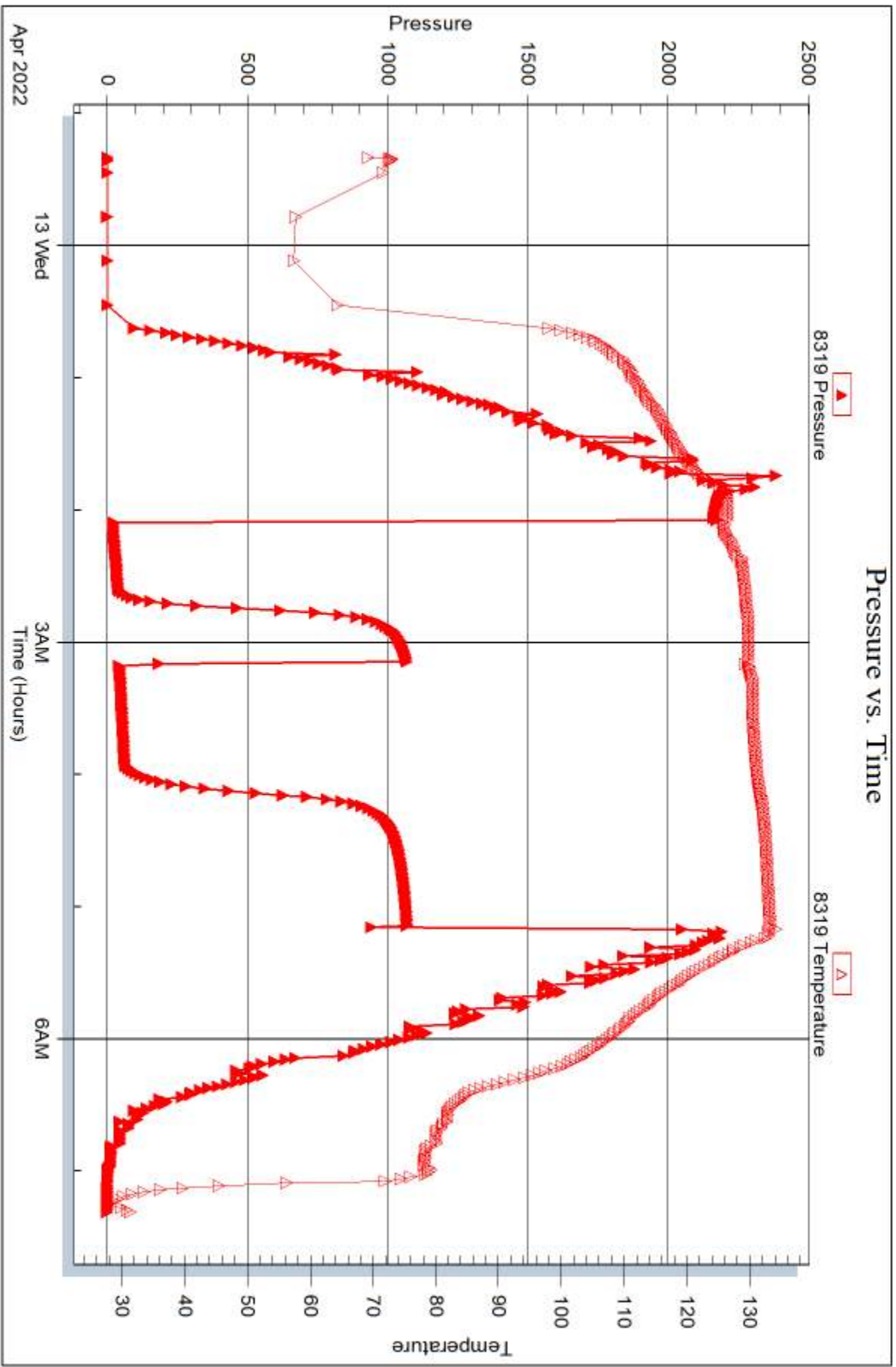
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Coberly NNN #3

11-14s- 29w Gove,KS

Start Date: 2022.04.13 @ 14:25:00

End Date: 2022.04.13 @ 22:18:15

Job Ticket #: 68078 DST #: 5

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

Printed: 2022.04.19 @ 11:14:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

11-14s- 29w Gove,KS
Coberly NNN #3
Job Ticket: 68078 **DST#: 5**
Test Start: 2022.04.13 @ 14:25:00

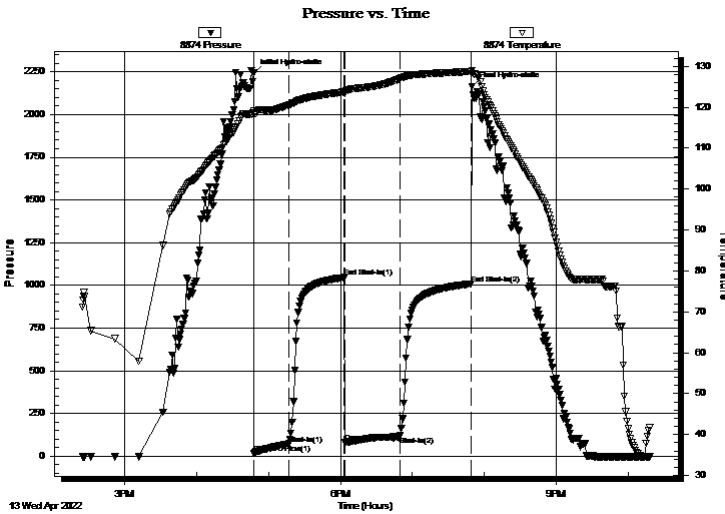
GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 16:48:00 Tester: Bradley Walter
Time Test Ended: 22:18:15 Unit No: 78
Interval: 4416.00 ft (KB) To 4448.00 ft (KB) (TVD) Reference Elevations: 2725.00 ft (KB)
Total Depth: 4448.00 ft (KB) (TVD) 2714.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8874 Outside
Press@RunDepth: 115.10 psig @ 4417.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.04.13 End Date: 2022.04.13 Last Calib.: 2022.04.13
Start Time: 14:25:05 End Time: 22:18:14 Time On Btm: 2022.04.13 @ 16:47:45
Time Off Btm: 2022.04.13 @ 19:49:45

TEST COMMENT: 30- IF: 6" blow .
45- IS: No return.
45- FF: 10" blow .
60- FS: 1/2" return,

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.89	119.07	Initial Hydro-static
1	18.97	118.13	Open To Flow (1)
29	72.19	120.48	Shut-In(1)
76	1046.17	123.71	End Shut-In(1)
77	80.10	123.60	Open To Flow (2)
122	115.10	126.96	Shut-In(2)
181	1008.78	128.70	End Shut-In(2)
182	2164.37	128.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	gmco 20g 40m 40o	0.98
40.00	go 5g 95o	0.42
0.00	250' 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

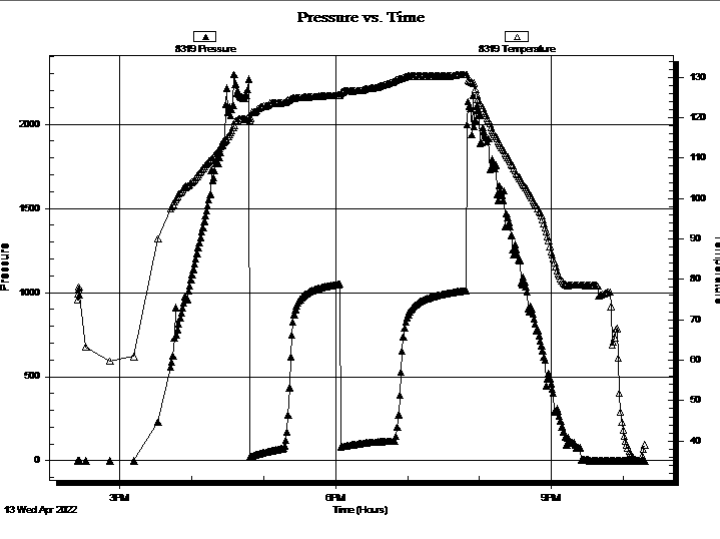
11-14s- 29w Gove, KS
Coberly NNN #3
 Job Ticket: 68078 **DST#: 5**
 Test Start: 2022.04.13 @ 14:25:00

GENERAL INFORMATION:

Formation:	Mississippian		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	16:48:00		Tester: Bradley Walter
Time Test Ended:	22:18:15		Unit No: 78
Interval:	4416.00 ft (KB) To 4448.00 ft (KB) (TVD)		Reference Elevations: 2725.00 ft (KB)
Total Depth:	4448.00 ft (KB) (TVD)		2714.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 11.00 ft

Serial #: 8319	Inside		
Press@RunDepth:	psig @ 4417.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2022.04.13	End Date:	2022.04.13
Start Time:	14:25:05	End Time:	22:18:14
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 30- IF: 6" blow .
 45- IS: No return.
 45- FF: 10" blow .
 60- FS: 1/2" return,



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
200.00	gmco 20g 40m 40o	0.98
40.00	go 5g 95o	0.42
0.00	250' 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

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68078

DST#: 5

ATTN: Max Lovely

Test Start: 2022.04.13 @ 14:25:00

Tool Information

Drill Pipe:	Length: 4176.00 ft	Diameter: 3.80 inches	Volume: 58.58 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 59.64 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4416.00 ft			Final	73000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	62.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4387.00	
Shut In Tool	5.00			4392.00	
Hydraulic tool	5.00			4397.00	
Jars	5.00			4402.00	
EM Tool	3.00			4405.00	
Safety Joint	2.00			4407.00	
Packer	5.00			4412.00	30.00 Bottom Of Top Packer
Packer	4.00			4416.00	
Stubb	1.00			4417.00	
Recorder	0.00	8319	Inside	4417.00	
Recorder	0.00	8874	Outside	4417.00	
Perforations	28.00			4445.00	
Bullnose	3.00			4448.00	32.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68078

DST#: 5

ATTN: Max Lovely

Test Start: 2022.04.13 @ 14:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	gmco 20g 40m 40o	0.984
40.00	go 5g 95o	0.424
0.00	250' GIP	0.000

Total Length: 240.00 ft Total Volume: 1.408 bbl

Num Fluid Samples: 0

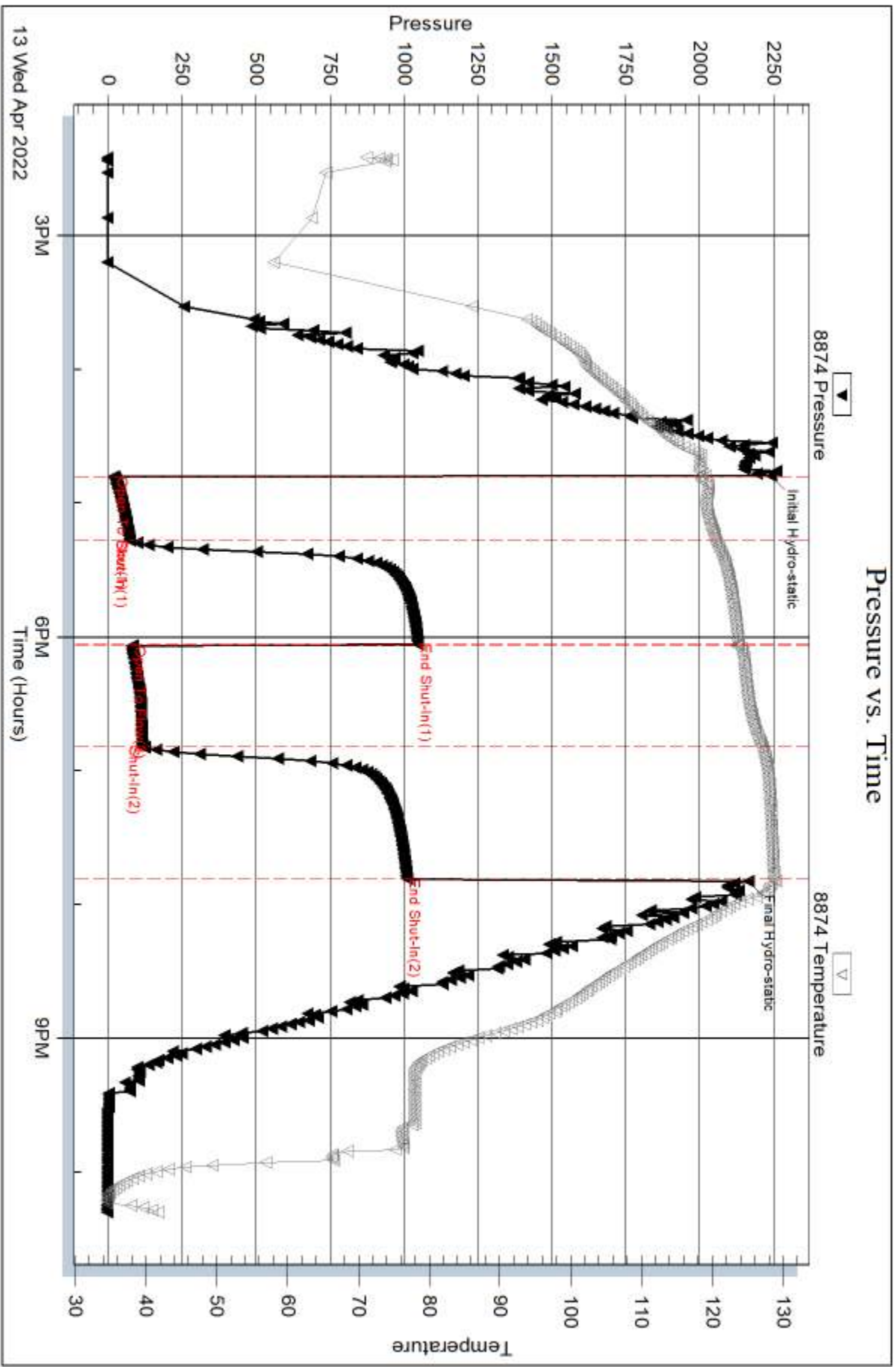
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



13 Wed Apr 2022

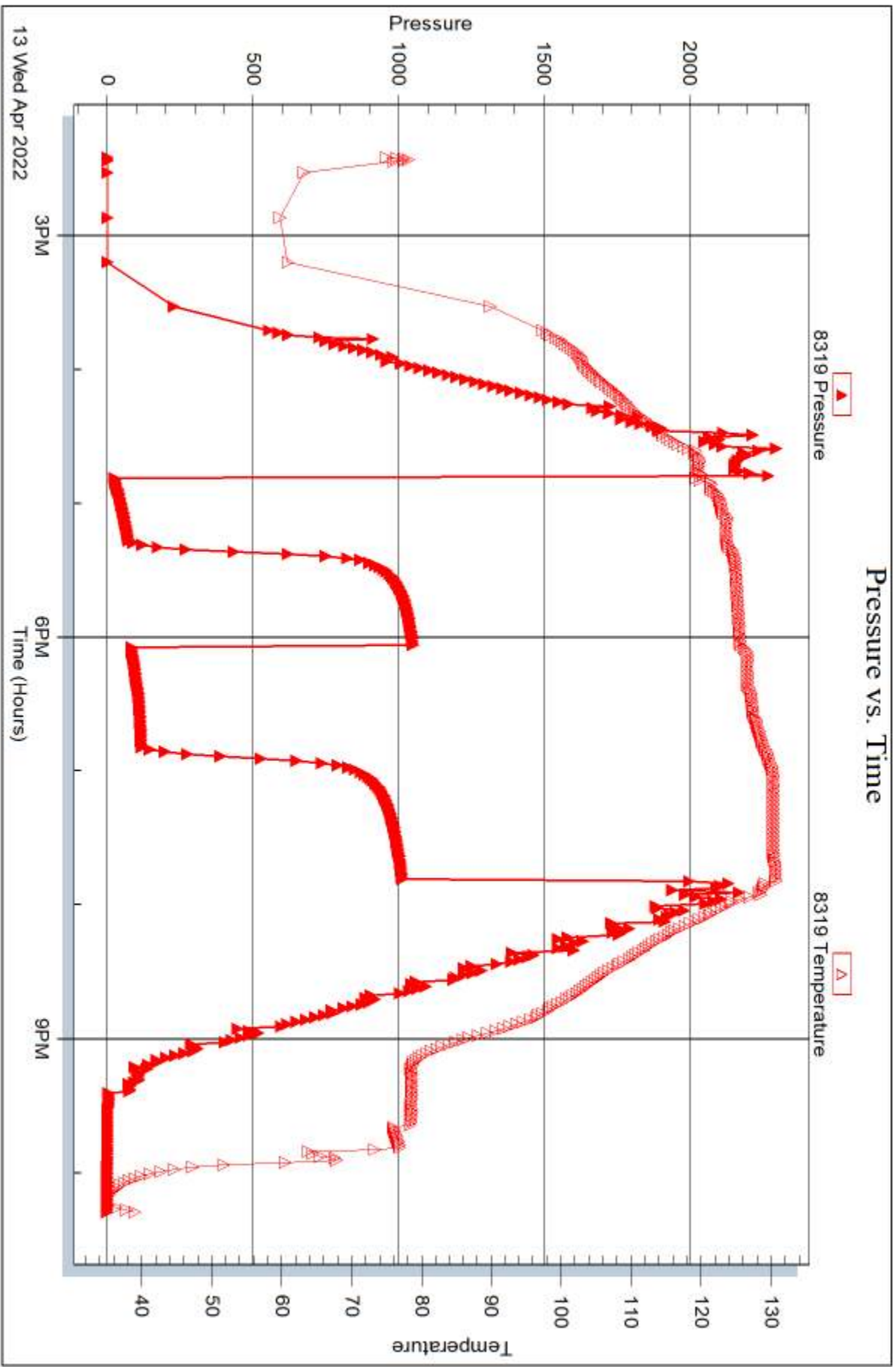
Serial #: 8319

Inside

Ritchie Exploration

Coberly NNN#3

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 68078

Printed: 2022.04.19 @ 11:14:18



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Coberly NNN #3

11-14s- 29w Gove,KS

Start Date: 2022.04.14 @ 07:21:00

End Date: 2022.04.14 @ 14:41:20

Job Ticket #: 68429 DST #: 6

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

Printed: 2022.04.19 @ 11:07:09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

11-14s- 29w Gove,KS
Coberly NNN #3
Job Ticket: 68429 **DST#: 6**
Test Start: 2022.04.14 @ 07:21:00

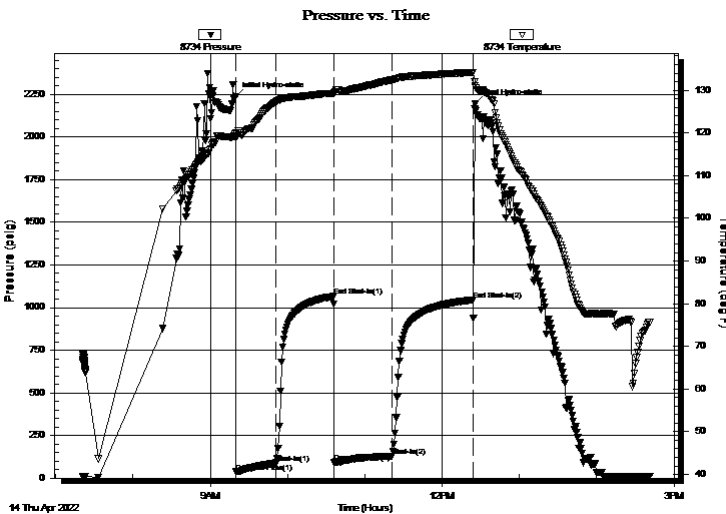
GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:20:10
Time Test Ended: 14:41:20
Interval: **4446.00 ft (KB) To 4460.00 ft (KB) (TVD)**
Total Depth: 4460.00 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: 2725.00 ft (KB)
2714.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8734 Outside
Press@RunDepth: 128.87 psig @ 4447.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.04.14 End Date: 2022.04.14 Last Calib.: 2022.04.14
Start Time: 07:21:01 End Time: 14:41:20 Time On Btm: 2022.04.14 @ 09:20:00
Time Off Btm: 2022.04.14 @ 12:25:39

TEST COMMENT: 30-IF-Blow built to 5 3/4"
45-ISI-No return
45-FF-B.O.B (11 inches) @ 45 mins
60-FSI-Return blow built to 2 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.25	119.92	Initial Hydro-static
1	36.77	118.94	Open To Flow (1)
32	89.36	127.38	Shut-In(1)
76	1065.91	129.31	End Shut-In(1)
77	93.36	129.13	Open To Flow (2)
122	128.87	132.44	Shut-In(2)
185	1045.31	134.17	End Shut-In(2)
186	2192.51	131.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	GSOMW 5%G,6%O,33%W,56%M	0.91
30.00	CGO 20%G, 80%O	0.15
0.00	175' 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

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68429

DST#: 6

ATTN: Max Lovely

Test Start: 2022.04.14 @ 07:21:00

Tool Information

Drill Pipe:	Length: 4204.00 ft	Diameter: 3.80 inches	Volume: 58.97 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: 215.00 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 60.03 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4446.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	47.00 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			4414.00	
Shut In Tool	5.00			4419.00	
Hydraulic tool	5.00	1113		4424.00	
Jars	5.00	01-07		4429.00	
EM Tool	5.00			4434.00	
Safety Joint	3.00	-001		4437.00	
Packer	5.00			4442.00	33.00 Bottom Of Top Packer
Packer	4.00			4446.00	
Packer - Shale	0.00			4446.00	
Stubb	1.00			4447.00	
Recorder	0.00	8959	Inside	4447.00	
Recorder	0.00	8734	Outside	4447.00	
Perforations	8.00			4455.00	
Bullnose	5.00			4460.00	14.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

11-14s- 29w Gove,KS

PO Box 783188
Wichita, KS 67278

Coberly NNN #3

Job Ticket: 68429

DST#: 6

ATTN: Max Lovely

Test Start: 2022.04.14 @ 07:21:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

7500 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	GSOMW 5%G,6%O,33%W,56%M	0.910
30.00	CGO 20%G, 80%O	0.148
0.00	175' GIP	0.000

Total Length: 215.00 ft Total Volume: 1.058 bbl

Num Fluid Samples: 0

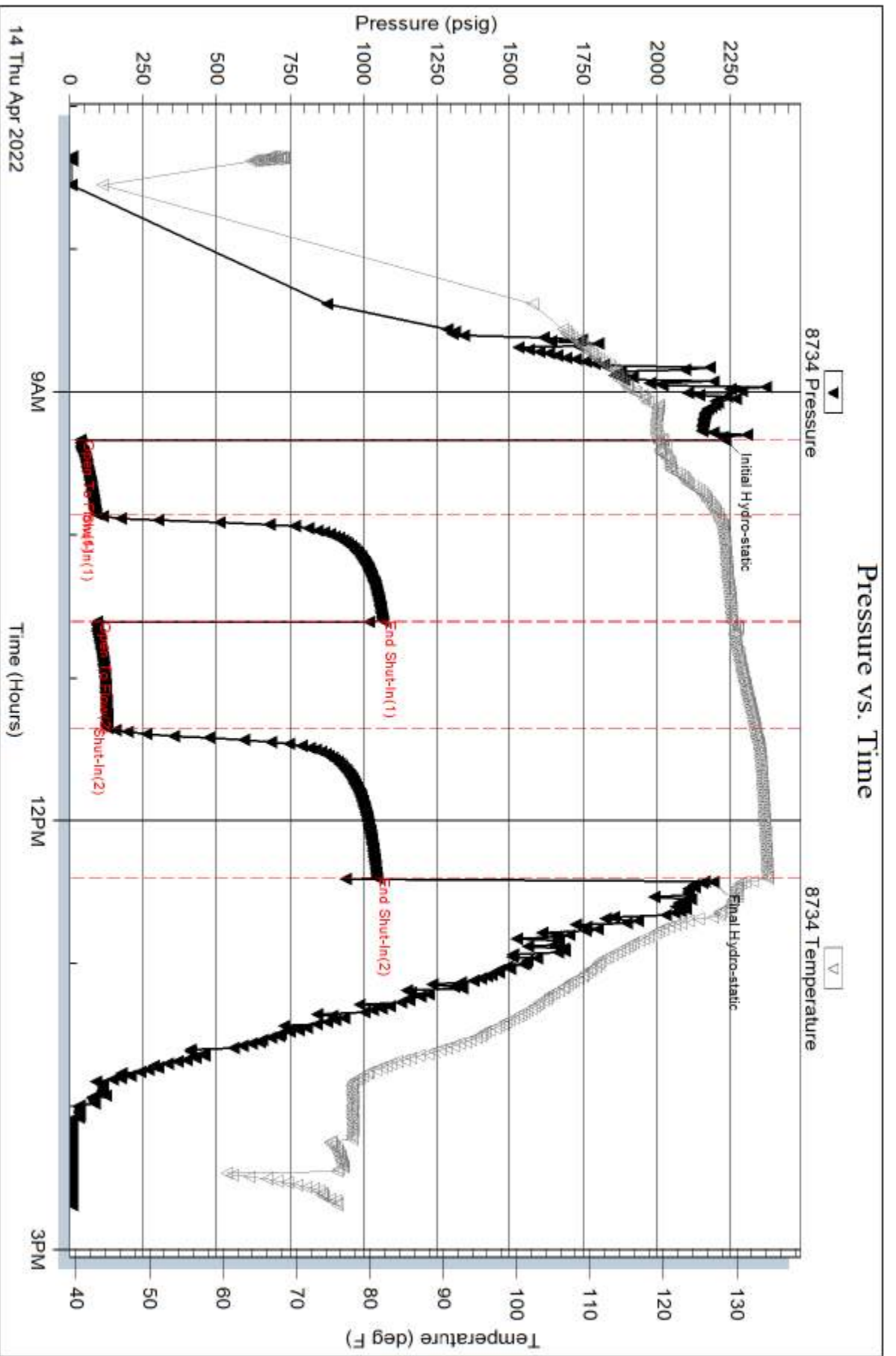
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 38.6@ 72 degs corrected to 37.4 @ 60 degs
RW=.85 @ 69.5 deg= 7,500 PPM



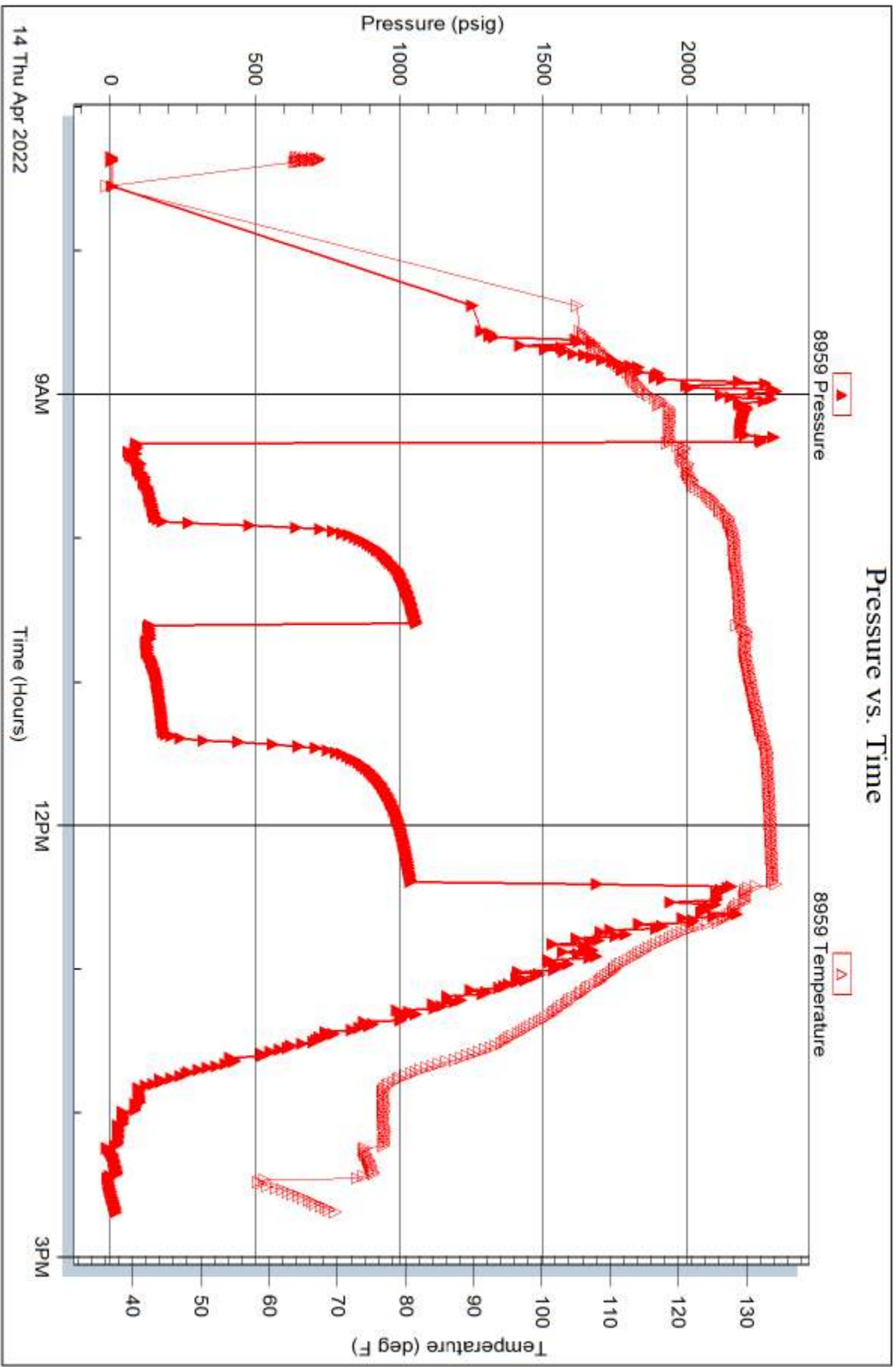
Serial #: 8959

Inside

Ritchie Exploration

Coberly NNN#3

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 68429

Printed: 2022.04.19 @ 11:07:11



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68074

Well Name & No. Coberly NAM #3 Test No. 1 Date 04/09/2022
 Company Ritchie Exploration Elevation 2725 KB 2714 GL
 Address PO Box 783188 Wichita, KS 67278
 Co. Rep / Geo. Max Lovely Rig Sterling #4
 Location: Sec. 11 Twp 14s Rge. 29w Co. Gove State KS

Interval Tested 3914 - 3948 Zone Tested LKC E+F
 Anchor Length 34' Drill Pipe Run 3496 Mud Wt. 9.2
 Top Packer Depth 3909 Drill Collars Run 214 Vis 56
 Bottom Packer Depth 3914 Wt. Pipe Run - WL 6.4
 Total Depth 3948 Chlorides 1500 ppm System LCM 5#

Blow Description IF BOB @ 16 min - 15 3/4" blow
ISF No return.
FF 23 1/4" blow
FSF No 1/4" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>580</u>	<u>MCW (oil spots)</u>			<u>92</u>	<u>2</u>
<u>20</u>	<u>oil</u>		<u>100</u>		

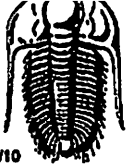
Rec Total 600 BHT 1 Gravity 34 API RW .220 @ 72 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic 1937 Test 1800 T-On Location 0130
 (B) First Initial Flow 30 Jars 300 T-Started 0307
 (C) First Final Flow 169 Safety Joint T-Open 0549
 (D) Initial Shut-In 1189 Circ Sub T-Pulled 0905
 (E) Second Initial Flow 173 Hourly Standby T-Out 1145
 (F) Second Final Flow 288 Mileage 106 hr 159 Comments _____
 (G) Final Shut-In 1143 Sampler _____
 (H) Final Hydrostatic 1903 Straddle _____

EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 2259 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68075

Well Name & No. Coberly NNN #3 Test No. 2 Date 04/10/2022
 Company Ritchie Exploration Elevation 2725 KB 2714 GL
 Address PO Box 793188 Wichita, KS 67278
 Co. Rep / Geo. Max Lovely Rig Stirling 4
 Location: Sec. 11 Twp 14s Rge. 29W Co. Gove State KS

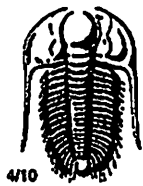
Interval Tested 4003-4056 Zone Tested LKC H&I
 Anchor Length 53' Drill Pipe Run 3790 Mud Wt. 9.2
 Top Packer Depth 3998 Drill Collars Run 214 Vis 54
 Bottom Packer Depth 4003 Wt. Pipe Run Ø WL 7.2
 Total Depth 4056 Chlorides 2,000 ppm System LCM 3#
 Blow Description IF 8" blow
ISI No return.
FF 8" blow.
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>230</u>	<u>600M</u>	<u>40</u>	<u>70</u>	<u>40</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 230 BHT 126 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2007</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>0300</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>0346</u>
(C) First Final Flow <u>72</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0749</u>
(D) Initial Shut-In <u>1550</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1050</u>
(E) Second Initial Flow <u>78</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1252</u>
(F) Second Final Flow <u>116</u>	<input checked="" type="checkbox"/> Mileage <u>106RT</u> 159	Comments
(G) Final Shut-In <u>1565</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1902</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input checked="" type="checkbox"/> EM Tool
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>2409</u>	Total <u>2409</u>
		MP/DST Disc't

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68076

Well Name & No. Coberly MNN #3 Test No. 3 Date 04/11/2022
 Company Ritche Exploration Elevation 2785 KB 2714 GL
 Address PO Box 783188 Wichita, Ks 67278
 Co. Rep / Geo. Max Lovely Rig Sterling #4
 Location: Sec. 11 Twp 14S Rge. 29W Co. Gove State Ks

Interval Tested 4064 - 4110 Zone Tested LKC J+K
 Anchor Length 46 Drill Pipe Run 3825 Mud Wt. 9.2
 Top Packer Depth 4059 Drill Collars Run 21# Vis 54
 Bottom Packer Depth 4064 Wt. Pipe Run Ø WL 3# 7.2
 Total Depth 4110 Chlorides 2200 ppm System LCM 2200 3#
 Blow Description IF 21.5" blow
ISI 3 1/4" return.
FF 28 3/4" blow
FSI 3" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>oil</u>	<u>100</u>			
<u>310</u>	<u>mcw (oil spots)</u>			<u>95</u>	<u>5</u>
	<u>480' GIP</u>				

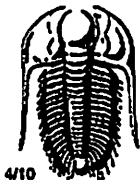
Rec Total 320 BHT 127 Gravity — API RW 1292 @ 58 °F Chlorides 27000 ppm

(A) Initial Hydrostatic <u>2082</u>	<input checked="" type="checkbox"/> Test 1950	T-On Location <u>2300 04/10</u>
(B) First Initial Flow <u>57</u>	<input checked="" type="checkbox"/> Jars 300	T-Started <u>23 25</u>
(C) First Final Flow <u>121</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>01 34</u>
(D) Initial Shut-In <u>1201</u>	<input checked="" type="checkbox"/> Circ Sub <u>NO</u>	T-Pulled <u>0440</u>
(E) Second Initial Flow <u>135</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0705</u>
(F) Second Final Flow <u>173</u>	<input checked="" type="checkbox"/> Mileage <u>106 RT</u> 159	Comments _____
(G) Final Shut-In <u>1172</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1976</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> IEM Tool
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2409</u>
	Sub Total <u>2409</u>	MP/DST Disc't _____

Approved By _____

Our Representative _____

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TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68077

Well Name & No. Coberly N/N #3 Test No. 4 Date 04/13/2022
 Company Ritchie Exploration, Inc Elevation 2725 KB 2714 GL
 Address PO Box 783188 Wichita, KS 67278
 Co. Rep / Geo. Max Loxely Rig Starling #4
 Location: Sec. 11 Twp 14S Rge. 29W Co. Gore State Ks

Interval Tested 4417 ~ 4440 Zone Tested Mississippian
 Anchor Length 23' Drill Pipe Run 4176 Mud Wt. 9.2
 Top Packer Depth 4412 Drill Collars Run 214 Vls 55
 Bottom Packer Depth 4417 Wt. Pipe Run Ø WL 7.2
 Total Depth 4440 Chlorides 2300 ppm System LCM 3 #
 Blow Description IF 1" blow
ISI No return
FF 3 1/2" blow
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Oil</u>				
<u>80</u>	<u>60CM</u>	<u>20%</u>	<u>25%</u>		<u>5.5%</u>
	<u>140' GI</u>				

Rec Total 100 BHT 131 Gravity 39 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2205</u>	<input checked="" type="checkbox"/> Test 1950	T-On Location <u>2230</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars 300	T-Started <u>2320</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0207</u>
(D) Initial Shut-In <u>1064</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0510</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0718</u>
(F) Second Final Flow <u>61</u>	<input checked="" type="checkbox"/> Mileage <u>106 RT</u> 159	Comments _____
(G) Final Shut-In <u>1065</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2200</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>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2409</u>
	Sub Total <u>2409</u>	MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68078

Well Name & No. Coberly NNN #3 Test No. 5 Date 04/13/2022
 Company Ritchie Exploration Elevation 2725 KB 2714 GL
 Address Pobox 783188 Wichita, ks 67278
 Co. Rep / Geo. Max Lovel Rig Starling #4
 Location: Sec. 11 Twp 14S Rge. 29W Co. Gore State Ks

Interval Tested 4416 - 4448 Zone Tested Mississippian
 Anchor Length 32 Drill Pipe Run 476 Mud Wt. 9.2
 Top Packer Depth 4411 Drill Collars Run 214 Vis 57
 Bottom Packer Depth 4416 Wt. Pipe Run Ø WL 7.2
 Total Depth 4448 Chlorides 2200 ppm System LCM 3#

Blow Description IF 6" blow
ISI No return
FF 10" blow
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>60</u>	<u>5</u>	<u>95</u>		
<u>200</u>	<u>6MCO</u>	<u>20</u>	<u>40</u>	<u>40</u>	
	<u>250' GIP</u>				

Rec Total 240 BHT 131 Gravity 39 API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic 2241 Test 1950 T-On Location 1330
 (B) First Initial Flow 18 Jars 300 T-Started 1428
 (C) First Final Flow 72 Safety Joint — T-Open 17:17
 (D) Initial Shut-In 1046 Circ Sub — T-Pulled 19:17
 (E) Second Initial Flow 80 Hourly Standby — T-Out 2:18
 (F) Second Final Flow 115 Mileage 10627 159 Comments —
 (G) Final Shut-In 1008 Sampler —
 (H) Final Hydrostatic 2164 Straddle — EM Tool -350
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total -350
 Total 2059

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 2409

MP/DST Disc'l —

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68429

Well Name & No. Coberly NNN #3 Test No. 6 Date 4-14-22
 Company Ritchie Exploration Elevation 2725 KB 2714 GL
 Address P.O. Box 783118 Wichita, KS 67278
 Co. Rep / Geo. Max Lively Rig Sterling #4
 Location: Sec. 11 Twp 14 Rge. 29 Co. Crowe State KS

Interval Tested 4446 - 4460 Zone Tested MISS
 Anchor Length 14' Drill Pipe Run 4204 Mud Wt. 9.3
 Top Packer Depth 4441 Drill Collars Run 215 Vls 63
 Bottom Packer Depth 4446 (Shale) Wt. Pipe Run --- WL 6.8
 Total Depth 4460 Chlorides 2200 ppm System LCM ~~2200~~ 3#

Blow Description IF - Blow built to 5 3/4"
ISI - No return

FF - B.O.B (11 inches) @ 45 mins.
FSI - Return blow built to 2 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>185</u>	<u>G50WM</u>	<u>5</u>	<u>6</u>	<u>33</u>	<u>56</u>
<u>30</u>	<u>CGO</u>	<u>20</u>	<u>80</u>		
<u>0</u>	<u>175' GIP</u>				

Rec Total 215 BHT 131 Gravity 37.4 API RW .85 @ 69.5 F Chlorides 7500 ppm

(A) Initial Hydrostatic 2234 Test 1950 T-On Location 06:30
 (B) First Initial Flow 37 Jars 300 T-Started 07:21
 (C) First Final Flow 89 Safety Joint T-Open 09:20
 (D) Initial Shut-In 1066 Circ Sub T-Pulled 12:20
 (E) Second Initial Flow 93 Hourly Standby T-Out 14:41
 (F) Second Final Flow 129 Mileage 106 RT 159 Comments Tools loaded @
 (G) Final Shut-In 1045 Sampler 16:00
 (H) Final Hydrostatic 2193 Straddle EM Tool

Initial Open 30 Ruined Shale Packer
 Initial Shut-In 45 Ruined Packer
 Final Flow 45 Extra Copies
 Final Shut-In 60 Extra Recorder
 Sub Total 0
 Total 2659
 Sub Total 2659 MP/DST Disc't

Approved By _____ Our Representative Max Lively

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.

Max R. Lovely

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

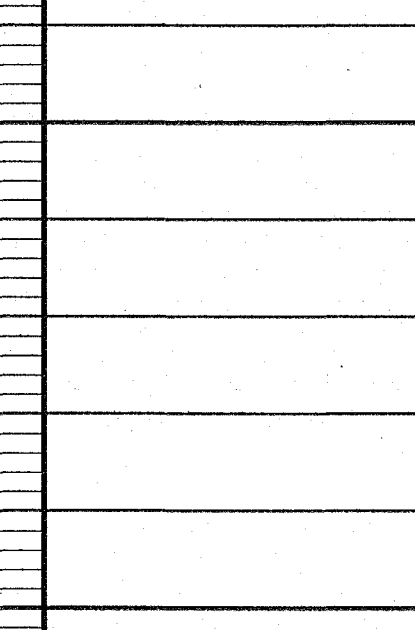
COMPANY Ritchie Exploration
LEASE #3 Coblevy NNN
FIELD Mabel Northwest
LOCATION 914 FEL 1661 FEL
SEC 11 TWP 14 R6E 29W
COUNTY Gove STATE KS
CONTRACTOR Sterling #4
SPUD 4-5-22 COMP 4-15-22
RD 4510 LTD 4510
MUD UP 3370 TYPE MUD Chem

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	START LOG TO	ELECTRIC TO	SUB-SEA TO	STRUCTURAL POSITION
Abundrite	2166	2133	327	A1
Base Abundrite	2187	2194	-204	A1
Stalder	3805	3803	-1078	B
Leaning	3826	3824	-1099	B
Lansing	3882	3842	-1117	B
Muncie Sh	3991	3991	-1266	B
BKC	4144	4145	-1420	B
Pawnee	4207	4184	-1480	B
Fl Scott	4252	4252	-1527	B
Cherokee	4333	4332	-1604	B
Missouri	4360	4361	-1636	B
Mississippi	4412	4408	-1675	B
Johnson	4429	4438	-1711	B

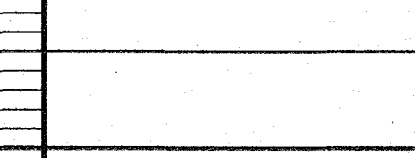
REMARKS

LEGEND



DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration Decreases



DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

ANHYDRITE 2166-559

BASE ANHYDRITE 2200 2197-528

3400

3500

3600

3700

3800

HEEBNER 3805-1080

TERONTO 3826-1101

LANSING 3844-1119

3900

4000

MUNCIE SH 3991-1267

3991-1267

STARK 4078-1353

BKC 4144-1419

4100

CHUSHKOVENY 3992-1387

4112-1387

BKC 4144-1419

4100

MARRATON 4175-1448

4175-1448

4200

LA TAUNTON 4204-1479

4204-1479

4200

PAWNEE 4252-1527

4252-1527

4300

MURK 4307-1582

4307-1582

4300

FT SCOTT 4333-1608

4333-1608

4300

SCHERKKEE 4360-1635

4360-1635

4400

JOHNSON 4412-1687

4412-1687

4400

MISSISSIPPI 4329-1704

4329-1704

4400

4500

5 STAND SHORT TRIP

BIT TAIP @ 3593'

Pump Repair

7AM 4-9-2022 DRLG @ 3687

MUD CHECK VIS: 48 WT: 8.8 CHLOR: 1500 LCM: 2 FILT: 6.4

11 STD SHORT TRIP DST #1 3914-3948 30.45.45.60 IF: 808 INST 151: NR FF: 3082-1174 REC: 20' OIL 580' MUD 10 SPITS 987. W FP: 30-169, 173-288 SIP: 1189-1143 HP: 1937-1903

7AM 4-9-2022 DST #1 @ 3948 MUD CHECK VIS: 48 WT: 8.8 CHLOR: 1500 LCM: 2 FILT: 6.4

7AM 4-10-2022 DST #2 @ 4056 MUD CHECK VIS: 54 WT: 9.2 CHLOR: 2,200 LCM: 4 FILT: 7.2

DST #3 4064-4110 30.45.45.60 IF: 212" 151: 394" FF: 288" 151: 3" REC: 10' OIL 400' MUD 10 SPITS 1180' W FP: 57-121, 135-173 SIP: 1201-1172 HP: 2082-1976

7AM 4-11-2022 DST #3 @ 4110 MUD CHECK VIS: 64 WT: 9.2 CHLOR: 2,500 LCM: 4 FILT: 8.0

7AM 4-12-2022 DRLG @ 4329

MUD CHECK VIS: 57 WT: 9.1 CHLOR: 2,200 LCM: 4 FILT: 7.2

DST #4 4417-4440 30.45.45.60 IF: 1" 151: NR FF: 372" 151: NR REC: 20' OIL 80' GCM 250' OIL 20' GCM 140' GIP FP: 17-77, 42-61 CHLOR: 2,200 LCM: 3 FILT: 6.8

7AM 4-13-2022 DST #4 @ 4440 MUD CHECK VIS: 57 WT: 9.1 CHLOR: 2,200 LCM: 3 FILT: 6.8

7AM 4-14-2022 DST #6 @ 4460 MUD CHECK VIS: 61 WT: 9.2 CHLOR: 2,200 LCM: 3 FILT: 6.8

DST #5 4416-4448 30.45.45.60 IF: 6" 151: NR REC: 40' CO 200' GCM 2076 40' OIL FP: 87-89, 93-129 SIP: 1066-1045 HP: 2241-2164

DST #6 4446-4460 30.45.45.60 IF: 5 1/2" 151: NR FF: 11' 808 45" 151: 2 1/4" REC: 175' GIP 185' GSDW: 160, 336 W 5 1/2" 30' CGO: 2076, 8070 FP: 37-89, 93-129 SIP: 1066-1045 HP: 2241-2164



#3 Coberly NNN

914' FNL & 1,661' FEL

76' N & 11' W of NW SE NW NE Section 11-14S-29W

Gove County, Kansas

API# 15-063-22399-0000

Elevation: GL: 2,714', KB: 2,725'

Sample Tops			Ref. Well
Anhydrite	2166	+559	-2
B/Anhydrite	2198	+527	+2
Stotler	3431	-706	-5
Heebner	3805	-1080	-8
Toronto	3826	-1101	-9
Lansing	3844	-119	-9
Muncie	3992	-1267	-14
Stark	4078	-1353	-8
Hushpuckney	4112	-1387	-8
BKC	4144	-1419	-6
Marmaton	4173	-1448	-8
Altamont	4204	-1479	-6
Pawnee	4252	-1527	-5
Myrick	4307	-1582	-7
Ft Scott	4333	-1608	-4
Cherokee	4360	-1635	-4
Johnson	4407	-1682	-7
Mississippi	4429	-1704	-1
RTD	4510	-1785	



Services, Inc.

CHARGE TO: Richie Explotation

ADDRESS

CITY, STATE, ZIP CODE

TICKET 34557

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Ness City</u>	# <u>3</u>	<u>Cobry ann</u>	<u>Gove</u>	<u>KS</u>		<u>4-19-22</u>	
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Express</u>	RIG NAME/NO.	SHIPPED <u>WGT</u>	DELIVERED TO <u>location</u>	ORDER NO.	
3.	WELL TYPE <u>01</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Part Collar</u>	WELL PERMIT NO.		WELL LOCATION <u>W-1010</u>	<u>Gove 7-5,</u>
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY. U/M			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.		
<u>575</u>					<u>112</u>	<u>60 mi</u>				<u>6.00</u>	<u>360.00</u>
<u>5760</u>					<u>Pump charge</u>	<u>1726</u>				<u>1502.00</u>	<u>1502.00</u>
<u>329-8</u>					<u>60/40 oz mix</u>	<u>275 SK</u>				<u>12.00</u>	<u>3300.00</u>
<u>275</u>					<u>Cotton seed Halls</u>	<u>2 SK</u>				<u>35.00</u>	<u>70.00</u>
<u>290</u>					<u>0-4" -</u>	<u>2 gal</u>				<u>42.00</u>	<u>84.00</u>
<u>581</u>					<u>cmr sinder charge</u>	<u>450 SK</u>				<u>2.00</u>	<u>900.00</u>
<u>583</u>					<u>Drayage</u>	<u>3933B LB</u>				<u>1.00</u>	<u>1180.00</u>

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 4-19-22 TIME SIGNED 15:30 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?	AGREE	UNDECIDED	DISAGREE
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 7394.00

TOTAL 71687.89

SWIFT OPERATOR Richard Blane APPROVAL [Signature]

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 4-19-22 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Richie Exploration		#3		Coberly nnn		Part Collar		34557	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	12:30								ON location 5/2 2 3/8 PC 2124'
	13:40 13:30		75	✓		1200			Pressure test 1200 hold
	13:45	4	90	✓		500			mix 275 SKs cmt with 100# bulls
	14:10	4	8	✓		500			displace cmt
	14:15			✓		1200			test 1200psi hold
	14:40	3	25	✓	✓		400		Reverse Clean
	14:50								Wash truck
	15:30						300		leave PSI on casing
	16:00								Job Complete Thanks! Preston, Kirby, Shane 275 SKs 60/40 pozmix 8% gel 1/4" #10 Used 15 SKs to pit



TICKET 34110

CHARGE TO: Rita's Exploration
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS:
 1. HAYS KS
 2. Ness City KS
 3.
 4.

WELL/PROJECT NO. # 3
 LEASE COBELLY NW
 COUNTY/PARISH GOVE
 STATE KS
 CITY

TICKET TYPE
 SERVICE
 SALES

CONTRACTOR STERLING Drilling
 RIG NAME/NO.
 WELL TYPE Oil
 WELL CATEGORY WOODRIVER
 JOB PURPOSE LONG STRAIN

INVOICE INSTRUCTIONS
 DELIVERED TO LOCATION
 WELL PERMIT NO.
 WELL LOCATION

DATE 4/15/22
 ORDER NO.
 OWNER

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF						
<u>575</u>					<u>MILEAGE TAX # 111</u>	<u>60</u>	<u>mi</u>	<u>6</u>	<u>00</u>	<u>360</u>
<u>578</u>					<u>PUMP CHARGE - LONG STRAINS</u>	<u>1</u>	<u>EA</u>	<u>1500</u>	<u>00</u>	<u>1500</u>
<u>290</u>					<u>D-AIR</u>	<u>2</u>	<u>EA</u>	<u>42</u>	<u>00</u>	<u>84</u>
<u>281</u>					<u>MUD FLUSH</u>	<u>500</u>	<u>gal</u>	<u>1</u>	<u>50</u>	<u>750</u>
<u>221</u>					<u>LIQUID KEL</u>	<u>2</u>	<u>bar</u>	<u>25</u>	<u>00</u>	<u>50</u>
<u>403</u>					<u>CEMENT BASKET</u>	<u>3</u>	<u>EA</u>	<u>275</u>	<u>00</u>	<u>825</u>
<u>409</u>					<u>TURBOLIZER</u>	<u>9</u>	<u>EA</u>	<u>90</u>	<u>00</u>	<u>810</u>
<u>406</u>					<u>LATCH BAND PUG & BASKET</u>	<u>1</u>	<u>EA</u>	<u>250</u>	<u>00</u>	<u>250</u>
<u>402</u>					<u>INSERT FLOAT SHOCK PADD FILL</u>	<u>1</u>	<u>EA</u>	<u>325</u>	<u>00</u>	<u>325</u>
<u>404</u>					<u>PORT COLLAR</u>	<u>1</u>	<u>EA</u>	<u>2500</u>	<u>00</u>	<u>2500</u>

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

PAGE TOTAL 6422 50
 TAX 60
 TOTAL 15056 00

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



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

TICKET CONTINUATION

TICKET No. 34110

CUSTOMER Ritchie Exploration

WELL COBBLEY #3 NND

DATE 4/15/22

PAGE 2 OF 3

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT	DR			QTY	U/M		
325						STANBACH GWT	200	SX	14.50	2900.00
279						BENTONITE GEL	4	SX	30.00	120.00
283						SALT	1050	lbs	85	262.50
292						HALAR - 322	100	lbs	8.50	850.00
277						COAL SEAL	1000	lbs	1.25	1250.00
SERVICE CHARGE Cement MILEAGE TOTAL WEIGHT 21550 CHARGE 60 LOADED MILES 60 CUBIC FEET 200 TON MILES 640 SX 2.00 400.00 1.00 640.00										

CONTINUATION TOTAL

6422.50

JOB LOG

SWIFT Services, Inc.

DATE 4/15/22 PAGE NO. 3

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Kitchie		# 3		Coberly NNN		Loch String		34110	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1500								ON LOCATION
									5 1/2 csg x 14 #
									Rtd - 4510
									Set @ 4494.51
									Shoe JT - 21.23
									CENTRALIZERS - 1, 2, 3, 5, 6, 11, 13, 56, 58
									BASKET - 57, 72, 92
									PORT COLLAR - # 57 @ 2126
	1645								START RUNNING Csg
	1900								BREAK CIRC ON BOTTOM
	2000	2	8			0			plug rat hole - 30 sx
		2	4			0			plug mouse hole - 20 sx
		6	12						pump mud flush - 500 gal
		6	20						pump kel spacer
		4.5	36						pump CNT - 150 sx @ 14.8 PPG
									Drop plug wash P&L
		7	0						START DISP
	2045	6	109			1000			LAND PLUG @ 1500
									RELEASE PSI - DRY
									JOB COMPLETE
									THANKS
									DAVID, SEAN & JOHN