

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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Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Richmeier #19-1  
 API: 15-065-24240-00-00  
 Location: SW SE NE NW Sec19 T9S R24W  
 License Number: Spud Date: 5/8/2023  
 Surface Coordinates: 1261' FNL & 2188' FWL  
 Region: Graham County, KS  
 Drilling Completed: 5/16/2023  
 Bottom Hole Coordinates: Surface casing- 8 5/8 @ 263'  
 Production casing-  
 Ground Elevation (ft): 2551 K.B. Elevation (ft): 2558  
 Logged Interval (ft): 3500 To: TD Total Depth (ft): 4210  
 Formation:  
 Type of Drilling Fluid: Chemical Mud  
 Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Canyon Operating LLC  
 Address: 5228 Lonetree Dr  
 Loveland, CO 80537

GEOLOGIST

Name: Clayton Erickson  
 Company: Erickson Wellsite Geology  
 Address: 402 Palmer Street  
 P.O. Box 294  
 Loomis, NE 68958

DSTs

DST #1 3900-3960 30-60-60-90; Hydro: 1935-1820 IFP: 38-206 ISIP: 367 FFP: 209-345 FSIP: 366; Rec: 660' 65%w 35%w w/ oil spots; BHT: 119F; RW: .16 @77F Chl: 40,000ppm; IF: dead in 15min ISI: dead FF: 9" FSI: dead  
 DST #2 3950-3982 30-60-30-60; Hydro: 1966-1464 IFP: 21-166 ISIP: 764 FFP: 176-250 FSIP: 761; Rec: 750' 85%w 15%w; BHT: 118F; RW: .2 @ 58F Chl: 45,000ppm; IF: BOB 9min ISI: dead FF: BOB 17min FSI: dead  
 DST #3 4010-4085 30-60-30-60; Hydro: 2050-1883 IFP: 49-97 ISIP: 241 FFP: 106-167 FSIP: 393; Rec: 1500' gas 120' 50%o 50%w; BHT: 112F; RW: .2 @ 55F Chl: 45,000ppm; IF: BOB 5min ISI: dead FF: BOB 5min FSI: dead  
 DST #4 4081-4130 30-60-60-120; Hydro: 2098-1873 IFP: 77-95 ISIP: 409 FFP: 104-137 FSIP: 577; Rec: 200' gas 200' oil 120' 60%o 40%w; BHT: 116F Grav: 33 @ 55F; IF: BOB 4min ISI: 1.5" FF: 7" FSI: dead

COMMENTS

FORMATION TOPS

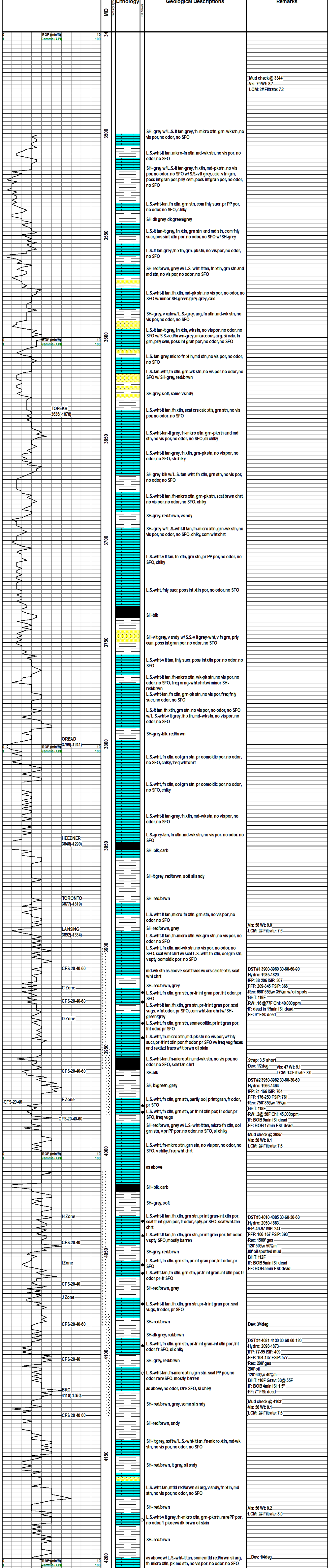
Formation	Log Tops	Sample tops
Anhydrite	2230(+322)	2233(+325)
TOPEKA	3632(-1074)	3636(-1078)
HEEBNER	3848(-1290)	3848(-1290)
LANSING	3895(-1337)	3892(-1334)
BKC	4114(-1556)	4118(-1560)
TD	4206(-1648)	4210(-1652)

ROCK TYPES

Anhy	Bent	Brec	Cht	Clyst	Carb. shale	Arkose	Dol	Gyp	Igne	Lmst	Meta	Mrlst	Salt	Shale	Shcol	Shgt	Stst	Ss	Till
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OTHER SYMBOLS

Oil Show Even	Spotted Ques	Dead	Interval Dst
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## DRILL STEM TEST REPORT

Prepared For: **Canyon Operating LLC**

PO Box 7117  
Loveland CO 80537-7117

ATTN: Clayton Erickson

### **Richmeier #19-1**

#### **19-9s-24w Graham,KS**

Start Date: 2023.05.13 @ 02:46:00

End Date: 2023.05.13 @ 12:38:00

Job Ticket #: 70328                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.05.16 @ 16:57:32



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Canyon Operating LLC  
 PO Box 7117  
 Loveland CO 80537-7117  
 ATTN: Clayton Erickson

**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
 Job Ticket: 70328 **DST#: 1**  
 Test Start: 2023.05.13 @ 02:46:00

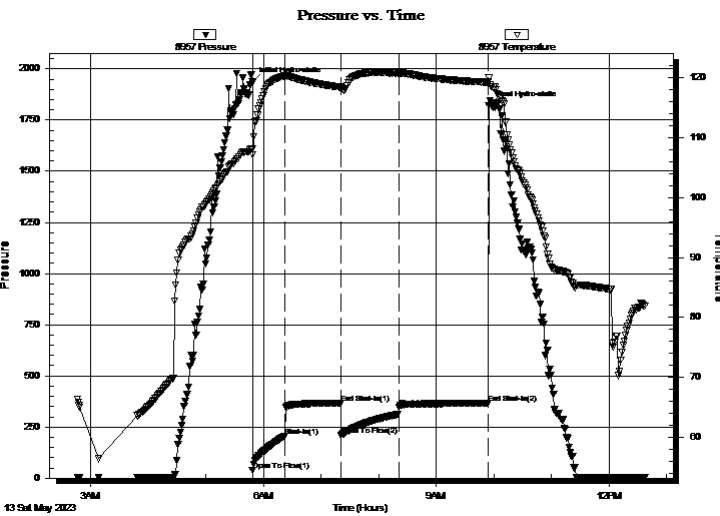
## GENERAL INFORMATION:

Formation: **LKC C-D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:48:15  
 Time Test Ended: 12:38:00  
 Interval: **3900.00 ft (KB) To 3960.00 ft (KB) (TVD)**  
 Total Depth: 3960.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Terrance  
 Unit No: 75  
 Reference Elevations: 2558.00 ft (KB)  
 2551.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8957

Press@RunDepth: 345.86 psig @ 3904.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2023.05.13 End Date: 2023.05.13 Last Calib.: 2023.05.13  
 Start Time: 02:46:05 End Time: 12:38:00 Time On Btm: 2023.05.13 @ 05:48:00  
 Time Off Btm: 2023.05.13 @ 09:54:30

TEST COMMENT: IF-30-Surface blow died in 15 min  
 IS-60-No return  
 FF-60-9 Inches  
 FS-90-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.51	108.12	Initial Hydro-static
1	38.40	107.21	Open To Flow (1)
34	205.83	120.41	Shut-In(1)
93	367.29	118.42	End Shut-In(1)
93	209.86	118.33	Open To Flow (2)
153	345.86	120.77	Shut-In(2)
246	366.49	119.28	End Shut-In(2)
247	1819.40	119.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
660.00	OSMW 65%WATER 35%MUD	7.96

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Canyon Operating LLC  
 PO Box 7117  
 Loveland CO 80537-7117  
 ATTN: Clayton Erickson

**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
 Job Ticket: 70328 **DST#: 1**  
 Test Start: 2023.05.13 @ 02:46:00

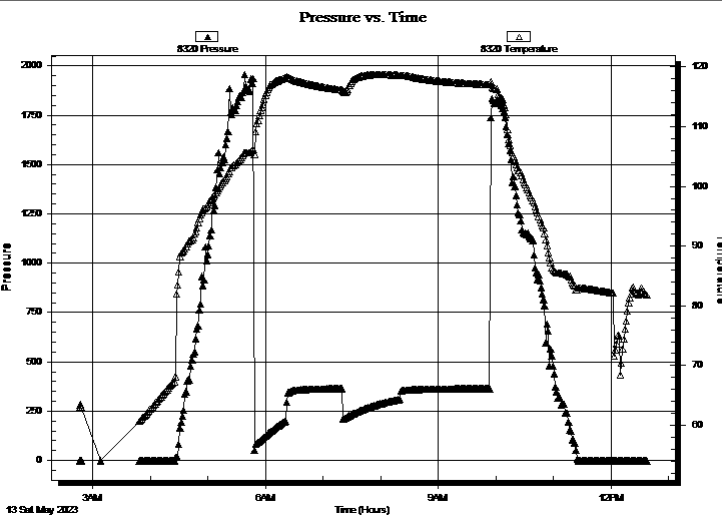
## GENERAL INFORMATION:

Formation: **LKC C-D**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 05:48:15 Tester: Terrance  
 Time Test Ended: 12:38:00 Unit No: 75  
 Interval: **3900.00 ft (KB) To 3960.00 ft (KB) (TVD)** Reference Elevations: 2558.00 ft (KB)  
 Total Depth: 3960.00 ft (KB) (TVD) 2551.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

## Serial #: 8320

Press@RunDepth: psig @ 3904.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2023.05.13 End Date: 2023.05.13 Last Calib.: 1899.12.30  
 Start Time: 02:46:05 End Time: 12:37:45 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF-30-Surface blow died in 15 min  
 IS-60-No return  
 FF-60-9 Inches  
 FS-90-No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
660.00	OSMW 65%WATER 35%MUD	7.96

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Canyon Operating LLC

**19-9s-24w Graham,KS**

PO Box 7117  
Loveland CO 80537-7117

**Richmeier #19-1**

Job Ticket: 70328

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2023.05.13 @ 02:46:00

## Tool Information

Drill Pipe:	Length: 3754.00 ft	Diameter: 3.75 inches	Volume: 51.28 bbl	Tool Weight: 25000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3900.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3874.00	
Hydraulic tool	5.00			3879.00	
Jars	5.00			3884.00	
EM Sub	3.00			3887.00	
Safety Joint	3.00			3890.00	
Packer	5.00			3895.00	31.00 Bottom Of Top Packer
Packer	5.00			3900.00	
Stubb	1.00			3901.00	
Perforations	3.00			3904.00	
Recorder	0.00	8957		3904.00	
Recorder	0.00	8320		3904.00	
Perforations	18.00			3922.00	
Change Over Sub	1.00			3923.00	
Drill Pipe	31.00			3954.00	
Change Over Sub	1.00			3955.00	
Perforations	2.00			3957.00	
Bullnose	3.00			3960.00	60.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>91.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Canyon Operating LLC  
PO Box 7117  
Loveland CO 80537-7117  
ATTN: Clayton Erickson

**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
Job Ticket: 70328      **DST#: 1**  
Test Start: 2023.05.13 @ 02:46:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 77 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 40000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.16 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1900.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

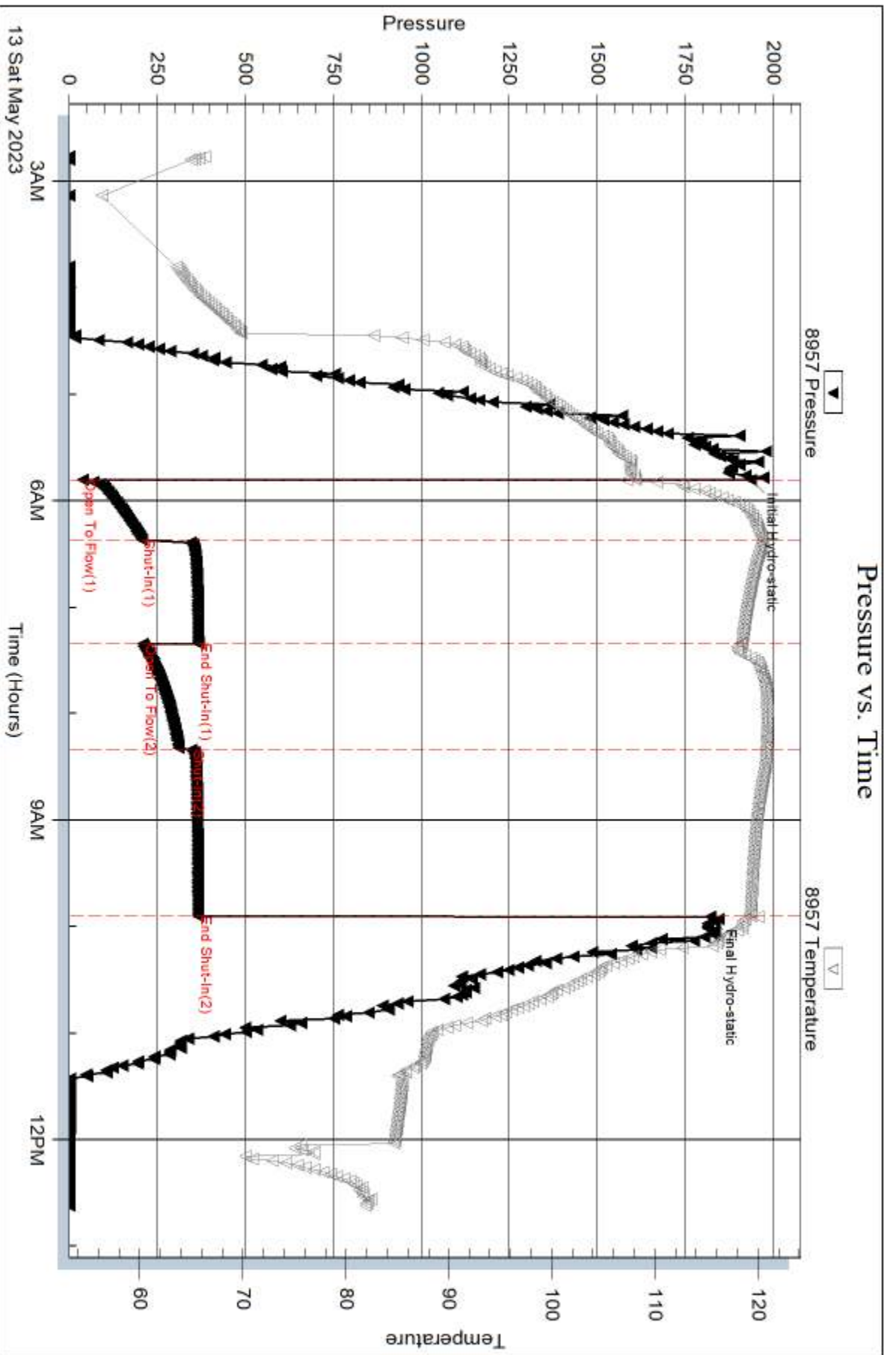
Length ft	Description	Volume bbl
660.00	OSMW 65%WATER 35%MUD	7.958

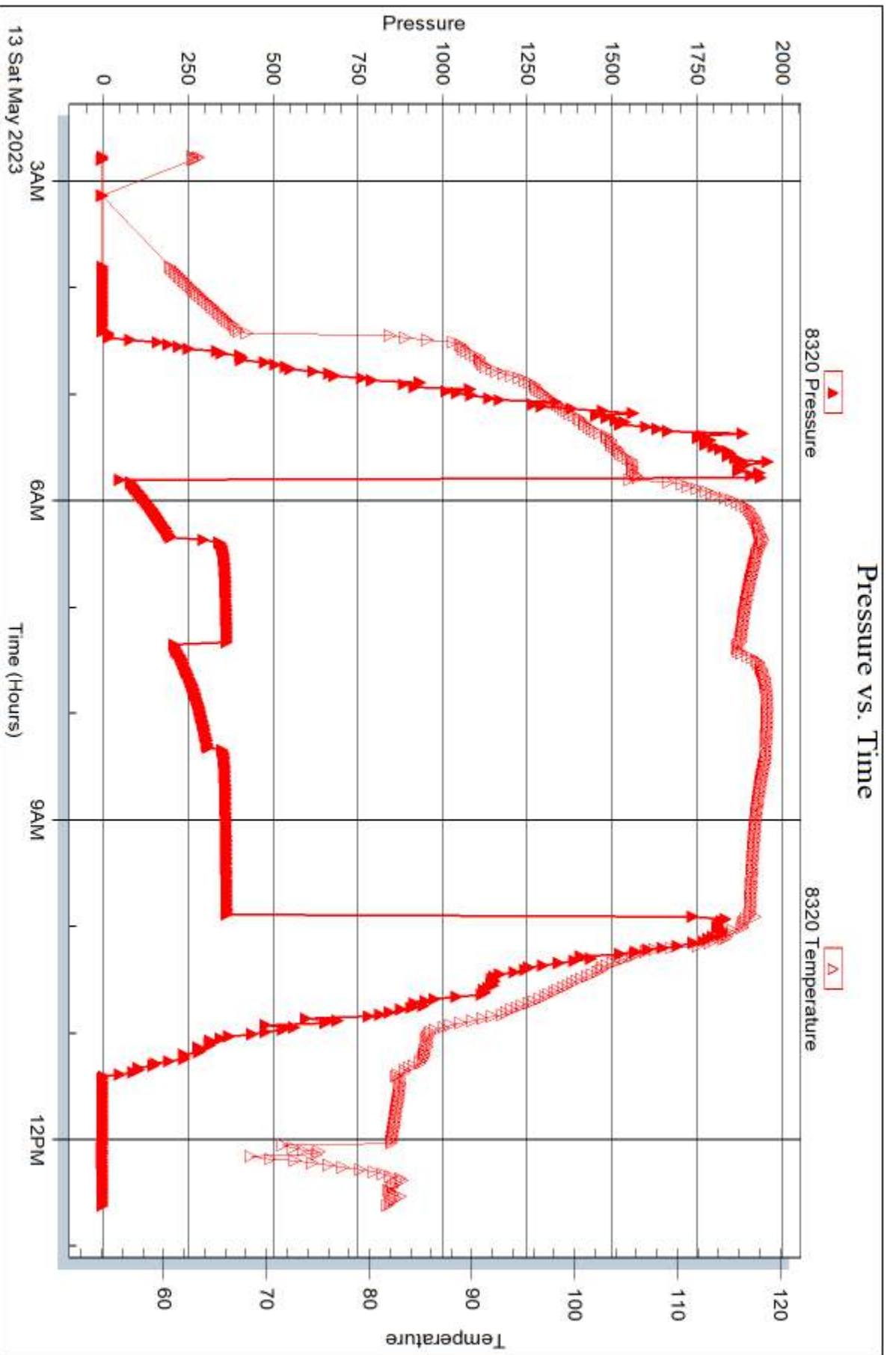
Total Length: 660.00 ft      Total Volume: 7.958 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Canyon Operating LLC**

PO Box 7117  
Loveland CO 80537-7117

ATTN: Clayton Erickson

### **Richmeier #19-1**

### **19-9s-24w Graham,KS**

Start Date: 2023.05.13 @ 21:51:00

End Date: 2023.05.14 @ 06:23:15

Job Ticket #: 70329                      DST #: 2

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

Printed: 2023.05.16 @ 16:57:03



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Canyon Operating LLC  
 PO Box 7117  
 Loveland CO 80537-7117  
 ATTN: Clayton Erickson

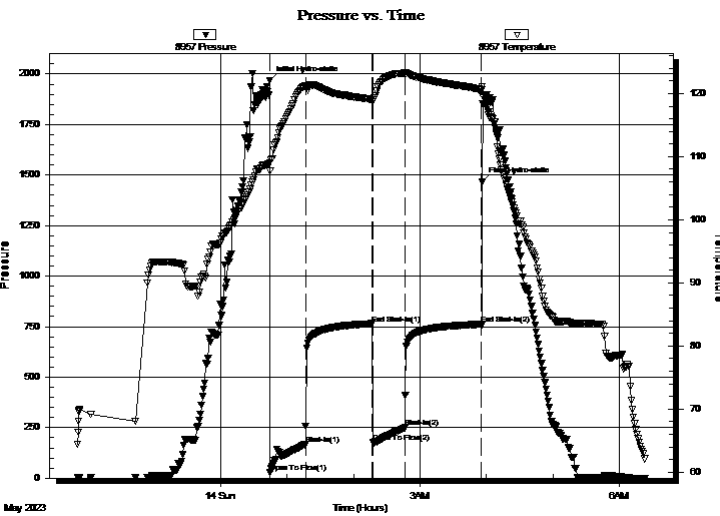
**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
 Job Ticket: 70329 **DST#: 2**  
 Test Start: 2023.05.13 @ 21:51:00

## GENERAL INFORMATION:

Formation: **LKC F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:44:45  
 Time Test Ended: 06:23:15  
 Interval: **3950.00 ft (KB) To 3982.00 ft (KB) (TVD)**  
 Total Depth: 3960.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Terrance  
 Unit No: 75  
 Reference Elevations: 2558.00 ft (KB)  
 2551.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8957 Inside**  
 Press@RunDepth: 249.58 psig @ 3954.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2023.05.13 End Date: 2023.05.14 Last Calib.: 2023.05.13  
 Start Time: 21:51:05 End Time: 06:23:15 Time On Btm: 2023.05.14 @ 00:44:30  
 Time Off Btm: 2023.05.14 @ 03:56:00

TEST COMMENT: IF-30-BOB In 9 min  
 IS-60-No return  
 FF-30-BOB In 17 min  
 FS-60-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.97	109.05	Initial Hydro-static
1	29.03	107.79	Open To Flow (1)
32	166.30	121.21	Shut-In(1)
93	764.48	119.03	End Shut-In(1)
93	175.87	118.77	Open To Flow (2)
122	249.58	123.25	Shut-In(2)
191	761.47	120.67	End Shut-In(2)
192	1464.70	121.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
750.00	MW 15%MUD 85%WATER	9.19

\* Recovery from multiple tests

## Gas Rates

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



# DRILL STEM TEST REPORT

Canyon Operating LLC  
 PO Box 7117  
 Loveland CO 80537-7117  
 ATTN: Clayton Erickson

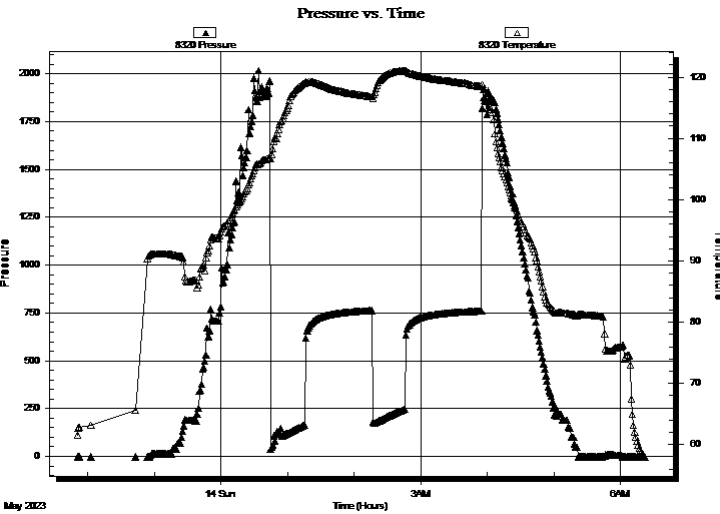
**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
 Job Ticket: 70329 **DST#: 2**  
 Test Start: 2023.05.13 @ 21:51:00

### GENERAL INFORMATION:

Formation: **LKC F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:44:45  
 Time Test Ended: 06:23:15  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Terrance  
 Unit No: 75  
 Interval: **3950.00 ft (KB) To 3982.00 ft (KB) (TVD)**  
 Total Depth: 3960.00 ft (KB) (TVD)  
 Reference Elevations: 2558.00 ft (KB)  
 2551.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 7.00 ft

**Serial #: 8320** **Inside**  
 Press@RunDepth: psig @ 3954.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2023.05.13 End Date: 2023.05.14 Last Calib.: 1899.12.30  
 Start Time: 21:51:05 End Time: 06:22:29 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF-30-BOB In 9 min  
 IS-60-No return  
 FF-30-BOB In 17 min  
 FS-60-No return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
750.00	MW 15%MUD 85%WATER	9.19

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Canyon Operating LLC

**19-9s-24w Graham,KS**

PO Box 7117  
Loveland CO 80537-7117

**Richmeier #19-1**

Job Ticket: 70329

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2023.05.13 @ 21:51:00

## Tool Information

Drill Pipe:	Length: 3816.00 ft	Diameter: 3.75 inches	Volume: 52.13 bbl	Tool Weight: 25000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3950.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

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

Shut In Tool	5.00			3924.00	
Hydraulic tool	5.00			3929.00	
Jars	5.00			3934.00	
EM Sub	3.00			3937.00	
Safety Joint	3.00			3940.00	
Packer	5.00			3945.00	31.00 Bottom Of Top Packer
Packer	5.00			3950.00	
Stubb	1.00			3951.00	
Perforations	3.00			3954.00	
Recorder	0.00	8957	Inside	3954.00	
Recorder	0.00	8320	Inside	3954.00	
Perforations	25.00			3979.00	
Bullnose	3.00			3982.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Canyon Operating LLC  
PO Box 7117  
Loveland CO 80537-7117  
ATTN: Clayton Erickson

**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
Job Ticket: 70329      **DST#: 2**  
Test Start: 2023.05.13 @ 21:51:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 59 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 45000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.20 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1900.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
750.00	MW 15%MUD 85%WATER	9.188

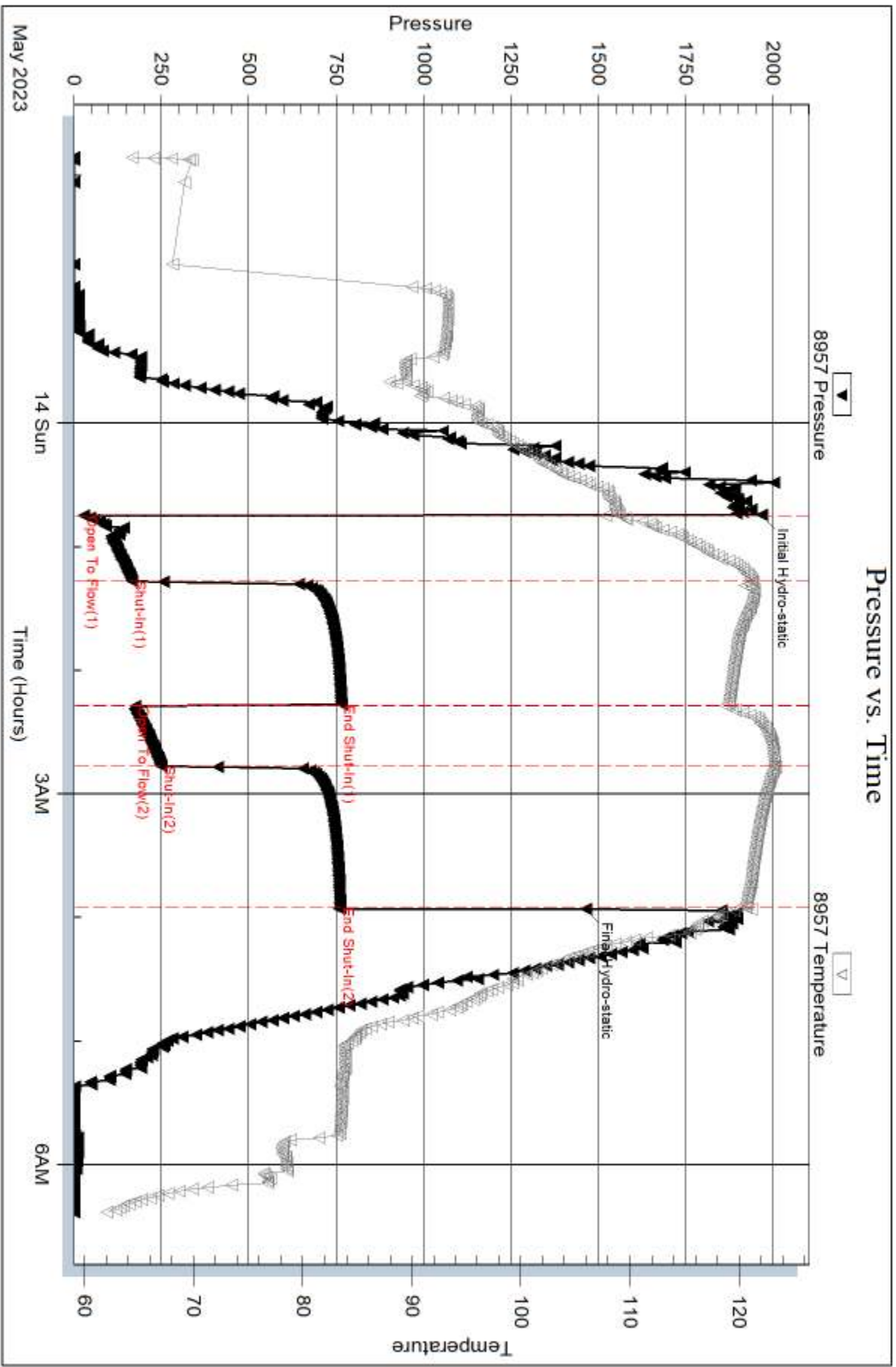
Total Length: 750.00 ft      Total Volume: 9.188 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





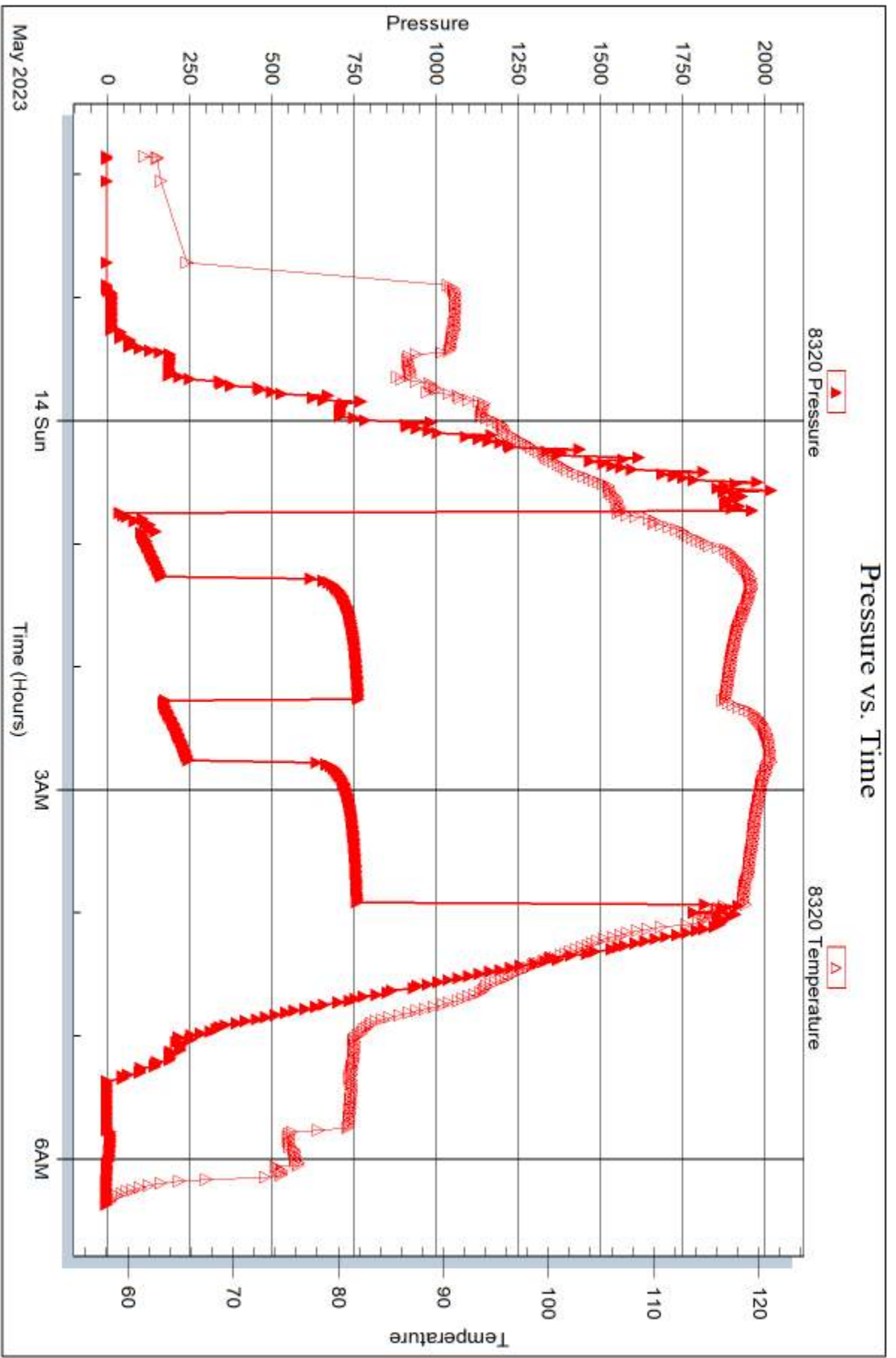
Serial #: 8320

Inside

Canyon Operating LLC

Richmeier #19-1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Canyon Operating LLC**

PO Box 7117  
Loveland CO 80537-7117

ATTN: Clayton Erickson

### **Richmeier #19-1**

#### **19-9s-24w Graham,KS**

Start Date: 2023.05.14 @ 23:11:00

End Date: 2023.05.15 @ 06:44:30

Job Ticket #: 70330                      DST #: 3

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

Printed: 2023.05.16 @ 16:56:33



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Canyon Operating LLC  
PO Box 7117  
Loveland CO 80537-7117  
ATTN: Clayton Erickson

**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
Job Ticket: 70330 **DST#: 3**  
Test Start: 2023.05.14 @ 23:11:00

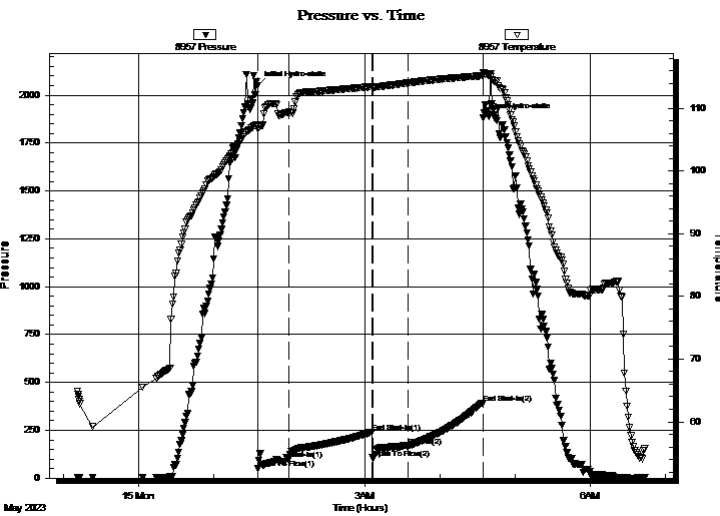
## GENERAL INFORMATION:

Formation: **LKC J**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 01:34:45  
Time Test Ended: 06:44:30  
Interval: **4010.00 ft (KB) To 4085.00 ft (KB) (TVD)**  
Total Depth: 4085.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Terrance  
Unit No: 75  
Reference Elevations: 2558.00 ft (KB)  
2551.00 ft (CF)  
KB to GR/CF: 7.00 ft

## Serial #: 8957

Press@RunDepth: 167.91 psig @ 4017.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2023.05.14 End Date: 2023.05.15 Last Calib.: 2023.05.15  
Start Time: 23:11:05 End Time: 06:44:29 Time On Btm: 2023.05.15 @ 01:34:30  
Time Off Btm: 2023.05.15 @ 04:35:00

TEST COMMENT: IF-30-BOB In 5 min [87 inches I-PRO sensor  
IS-60-No return  
FF-30-BOB In 5 min [ 15 inches on I-PRO sensor]  
FS-60-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.77	107.35	Initial Hydro-static
1	49.21	106.69	Open To Flow (1)
26	96.65	109.37	Shut-In(1)
92	240.71	113.46	End Shut-In(1)
92	105.85	113.41	Open To Flow (2)
121	167.91	114.05	Shut-In(2)
181	393.24	115.20	End Shut-In(2)
181	1882.73	115.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	50% mud 50%oil	0.59
80.00	OSM	1.08
0.00	1500 GAS	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Canyon Operating LLC  
 PO Box 7117  
 Loveland CO 80537-7117  
 ATTN: Clayton Erickson

**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
 Job Ticket: 70330 **DST#: 3**  
 Test Start: 2023.05.14 @ 23:11:00

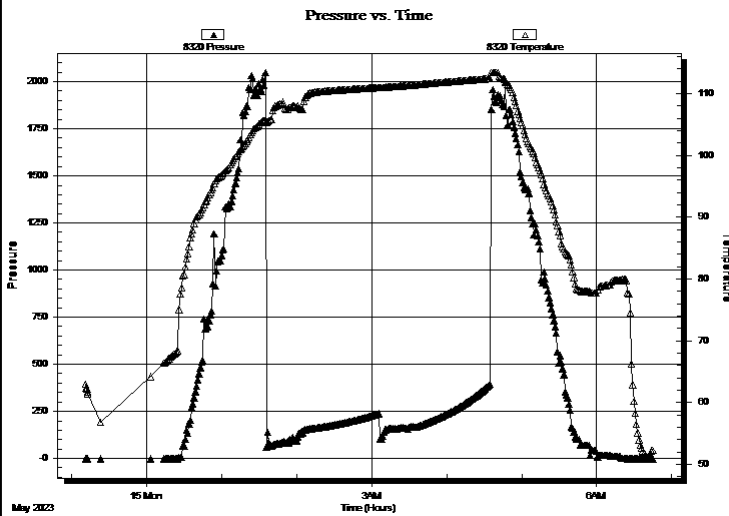
## GENERAL INFORMATION:

Formation: **LKC J**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 01:34:45 Tester: Terrance  
 Time Test Ended: 06:44:30 Unit No: 75  
 Interval: **4010.00 ft (KB) To 4085.00 ft (KB) (TVD)** Reference Elevations: 2558.00 ft (KB)  
 Total Depth: 4085.00 ft (KB) (TVD) 2551.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

## Serial #: 8320

Press@RunDepth: psig @ 4017.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2023.05.14 End Date: 2023.05.15 Last Calib.: 1899.12.30  
 Start Time: 23:11:05 End Time: 06:44:44 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF-30-BOB In 5 min [87 inches I-PRO sensor  
 IS-60-No return  
 FF-30-BOB In 5 min [ 15 inches on I-PRO sensor]  
 FS-60-No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	50% mud 50%oil	0.59
80.00	OSM	1.08
0.00	1500 GAS	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**

Canyon Operating LLC

**19-9s-24w Graham,KS**

PO Box 7117  
Loveland CO 80537-7117

**Richmeier #19-1**

Job Ticket: 70330

**DST#: 3**

ATTN: Clayton Erickson

Test Start: 2023.05.14 @ 23:11:00

## Tool Information

Drill Pipe:	Length: 3881.00 ft	Diameter: 3.75 inches	Volume: 53.02 bbl	Tool Weight: 25000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4010.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

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

Shut In Tool	5.00			3984.00	
Hydraulic tool	5.00			3989.00	
Jars	5.00			3994.00	
EM Sub	3.00			3997.00	
Safety Joint	3.00			4000.00	
Packer	5.00			4005.00	31.00 Bottom Of Top Packer
Packer	5.00			4010.00	
Stubb	1.00			4011.00	
Perforations	5.00			4016.00	
Change Over Sub	1.00			4017.00	
Recorder	0.00	8957		4017.00	
Recorder	0.00	8320		4017.00	
Drill Pipe	63.00			4080.00	
Change Over Sub	1.00			4081.00	
Perforations	1.00			4082.00	
Bullnose	3.00			4085.00	75.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>106.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Canyon Operating LLC  
PO Box 7117  
Loveland CO 80537-7117  
ATTN: Clayton Erickson

**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
Job Ticket: 70330      **DST#: 3**  
Test Start: 2023.05.14 @ 23:11:00

## 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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

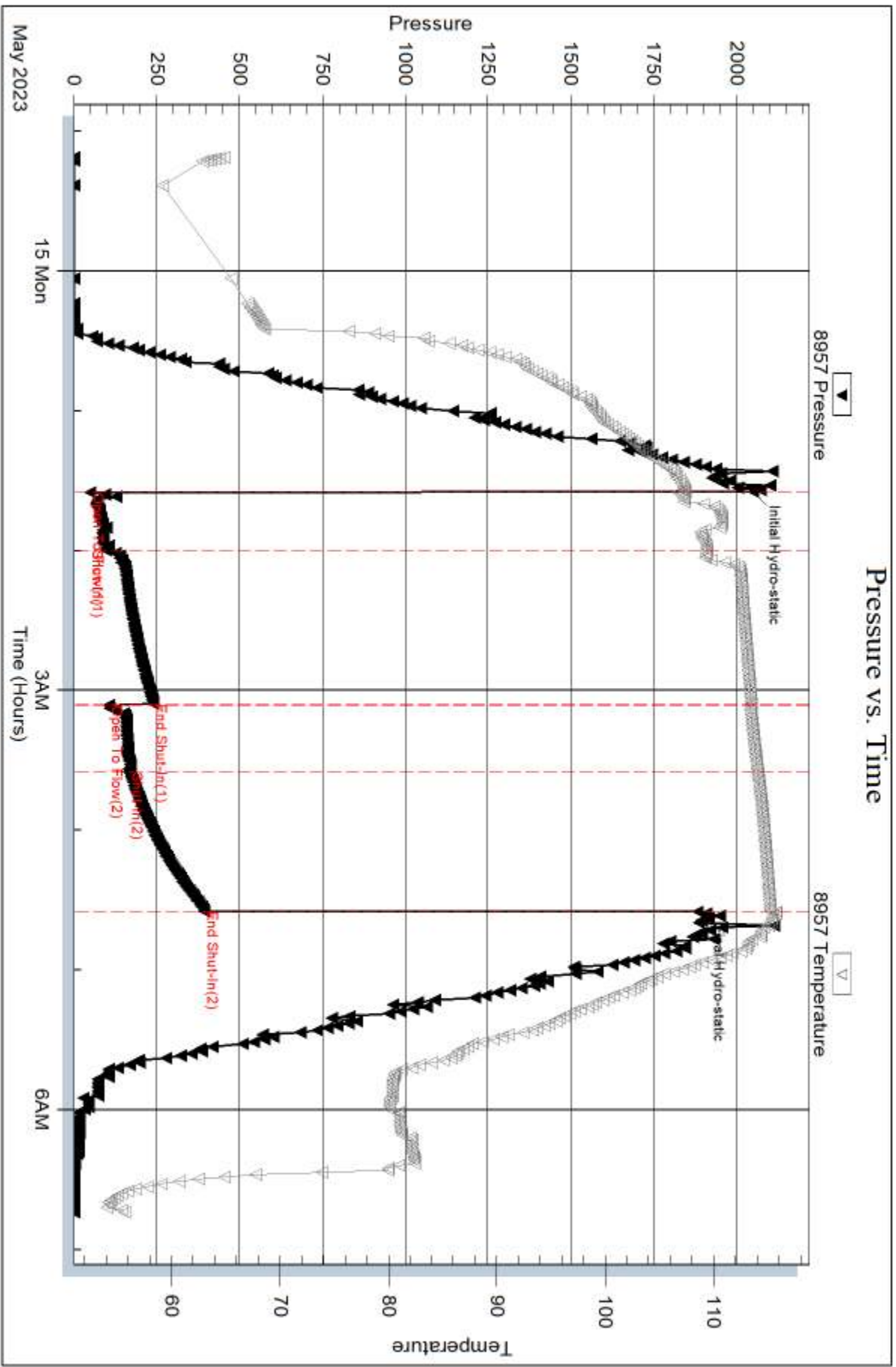
Length ft	Description	Volume bbl
120.00	50% mud 50%oil	0.590
80.00	OSM	1.084
0.00	1500 GAS	0.000

Total Length: 200.00 ft      Total Volume: 1.674 bbl

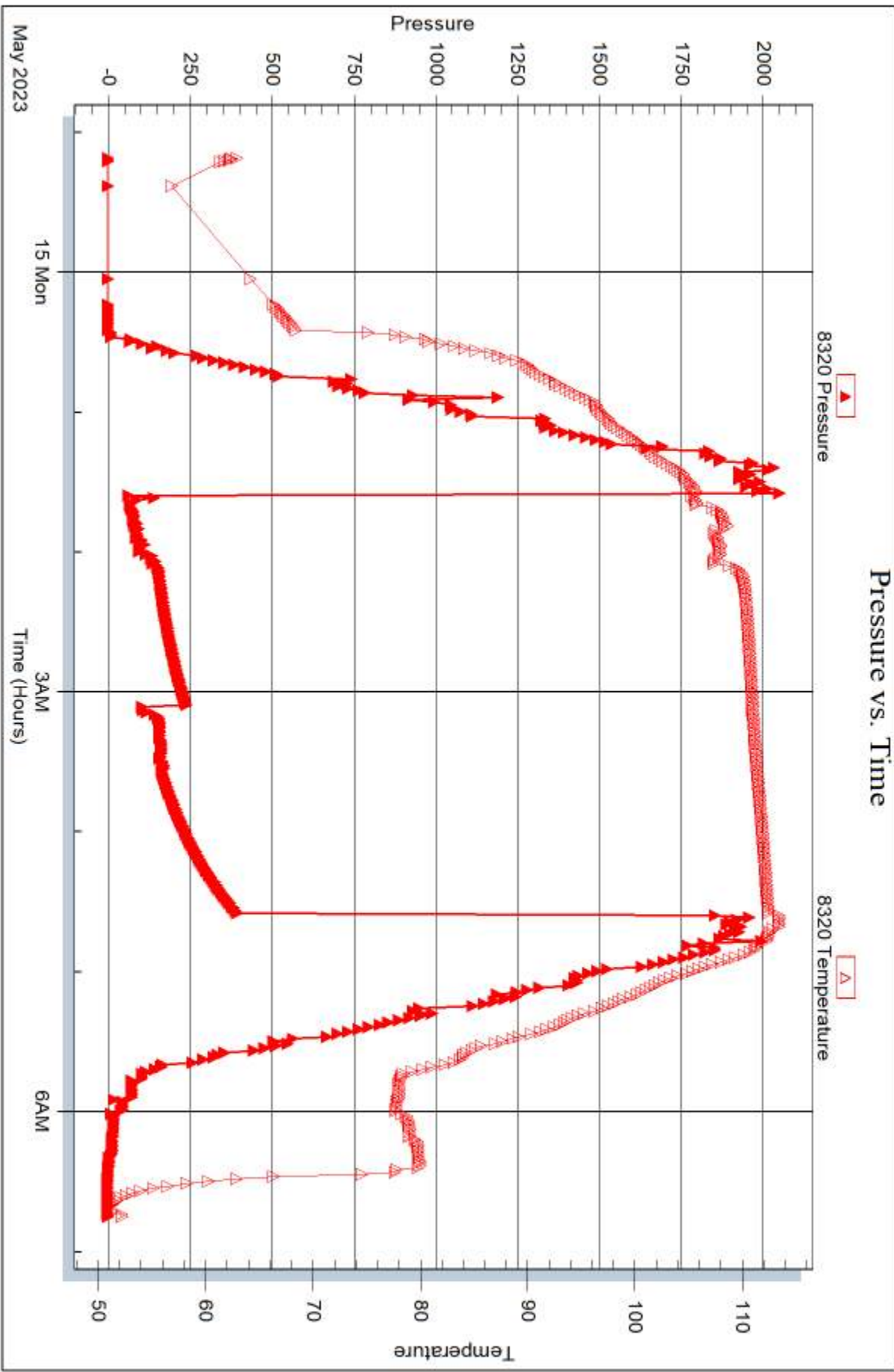
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Canyon Operating LLC**

PO Box 7117  
Loveland CO 80537-7117

ATTN: Clayton Erickson

### **Richmeier #19-1**

### **19-9s-24w Graham,KS**

Start Date: 2023.05.15 @ 17:45:00

End Date: 2023.05.16 @ 03:55:00

Job Ticket #: 70331                      DST #: 4

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

Printed: 2023.05.16 @ 16:56:01



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Canyon Operating LLC  
 PO Box 7117  
 Loveland CO 80537-7117  
 ATTN: Clayton Erickson

**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
 Job Ticket: 70331 **DST#: 4**  
 Test Start: 2023.05.15 @ 17:45:00

## GENERAL INFORMATION:

Formation: **LKC K-L**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 20:18:30  
 Tester: Terrance  
 Time Test Ended: 03:55:00  
 Unit No: 75  
 Interval: **4081.00 ft (KB) To 4130.00 ft (KB) (TVD)**  
 Reference Elevations: 2558.00 ft (KB)  
 Total Depth: 4130.00 ft (KB) (TVD)  
 2551.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 7.00 ft

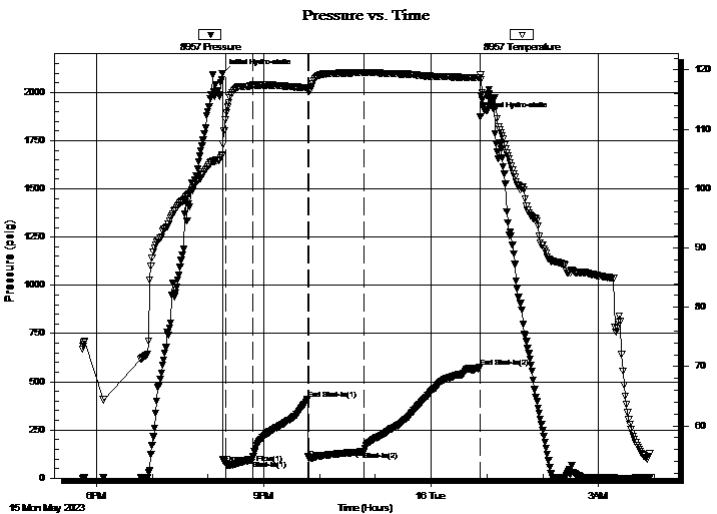
## Serial #: 8957

Inside

Press@RunDepth: 136.87 psig @ 4082.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2023.05.15 End Date: 2023.05.16 Last Calib.: 2023.05.16  
 Start Time: 17:45:05 End Time: 03:55:00 Time On Btm: 2023.05.15 @ 20:15:15  
 Time Off Btm: 2023.05.16 @ 00:53:00

TEST COMMENT: IF-30-BOB In 4 min  
 IS-60- 1 1/2 Return  
 FF-60- 7 Inches  
 FS-120-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2098.78	105.69	Initial Hydro-static
4	76.94	111.58	Open To Flow (1)
33	94.54	117.41	Shut-In(1)
92	409.22	117.00	End Shut-In(1)
93	104.31	116.46	Open To Flow (2)
153	136.87	119.54	Shut-In(2)
278	577.00	118.68	End Shut-In(2)
278	1872.76	119.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MO 40%MUD 60%OIL	0.59
200.00	100%OIL	2.72
0.00	200' GAS	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Canyon Operating LLC  
 PO Box 7117  
 Loveland CO 80537-7117  
 ATTN: Clayton Erickson

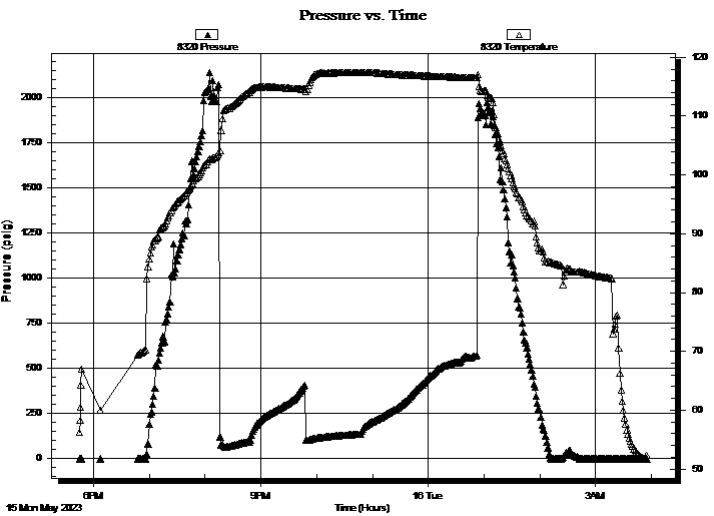
**19-9s-24w Graham,KS**  
**Richmeier #19-1**  
 Job Ticket: 70331 **DST#: 4**  
 Test Start: 2023.05.15 @ 17:45:00

**GENERAL INFORMATION:**

Formation: **LKC K-L**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 20:18:30 Tester: Terrance  
 Time Test Ended: 03:55:00 Unit No: 75  
**Interval: 4081.00 ft (KB) To 4130.00 ft (KB) (TVD)** Reference Elevations: 2558.00 ft (KB)  
 Total Depth: 4130.00 ft (KB) (TVD) 2551.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

**Serial #: 8320 Inside**  
 Press@RunDepth: psig @ 4082.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2023.05.15 End Date: 2023.05.16 Last Calib.: 1899.12.30  
 Start Time: 17:45:05 End Time: 03:55:15 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF-30-BOB In 4 min  
 IS-60- 1 1/2 Return  
 FF-60- 7 Inches  
 FS-120-No return



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	MO 40%MUD 60%OIL	0.59
200.00	100%OIL	2.72
0.00	200 ' GAS	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**

Canyon Operating LLC

**19-9s-24w Graham,KS**

PO Box 7117  
Loveland CO 80537-7117

**Richmeier #19-1**

Job Ticket: 70331

**DST#: 4**

ATTN: Clayton Erickson

Test Start: 2023.05.15 @ 17:45:00

## Tool Information

Drill Pipe:	Length: 3945.00 ft	Diameter: 3.75 inches	Volume: 53.89 bbl	Tool Weight:	25000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	4081.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.00 ft				
Tool Length:	80.00 ft				
Number of Packers:	2	Diameter: 6.88 inches			

Tool Comments:

## Tool Description

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

Shut In Tool	5.00			4055.00	
Hydraulic tool	5.00			4060.00	
Jars	5.00			4065.00	
EM Sub	3.00			4068.00	
Safety Joint	3.00			4071.00	
Packer	5.00			4076.00	31.00 Bottom Of Top Packer
Packer	5.00			4081.00	
Stubb	1.00			4082.00	
Recorder	0.00	8957	Inside	4082.00	
Recorder	0.00	8320	Inside	4082.00	
Perforations	11.00			4093.00	
Change Over Sub	1.00			4094.00	
Drill Pipe	31.00			4125.00	
Change Over Sub	1.00			4126.00	
Perforations	1.00			4127.00	
Bullnose	3.00			4130.00	49.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>80.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Canyon Operating LLC

**19-9s-24w Graham,KS**

PO Box 7117  
Loveland CO 80537-7117

**Richmeier #19-1**

Job Ticket: 70331

**DST#: 4**

ATTN: Clayton Erickson

Test Start: 2023.05.15 @ 17:45:00

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MO 40%MUD 60%OIL	0.590
200.00	100%OIL	2.723
0.00	200 ' GAS	0.000

Total Length: 320.00 ft      Total Volume: 3.313 bbl

Num Fluid Samples: 0

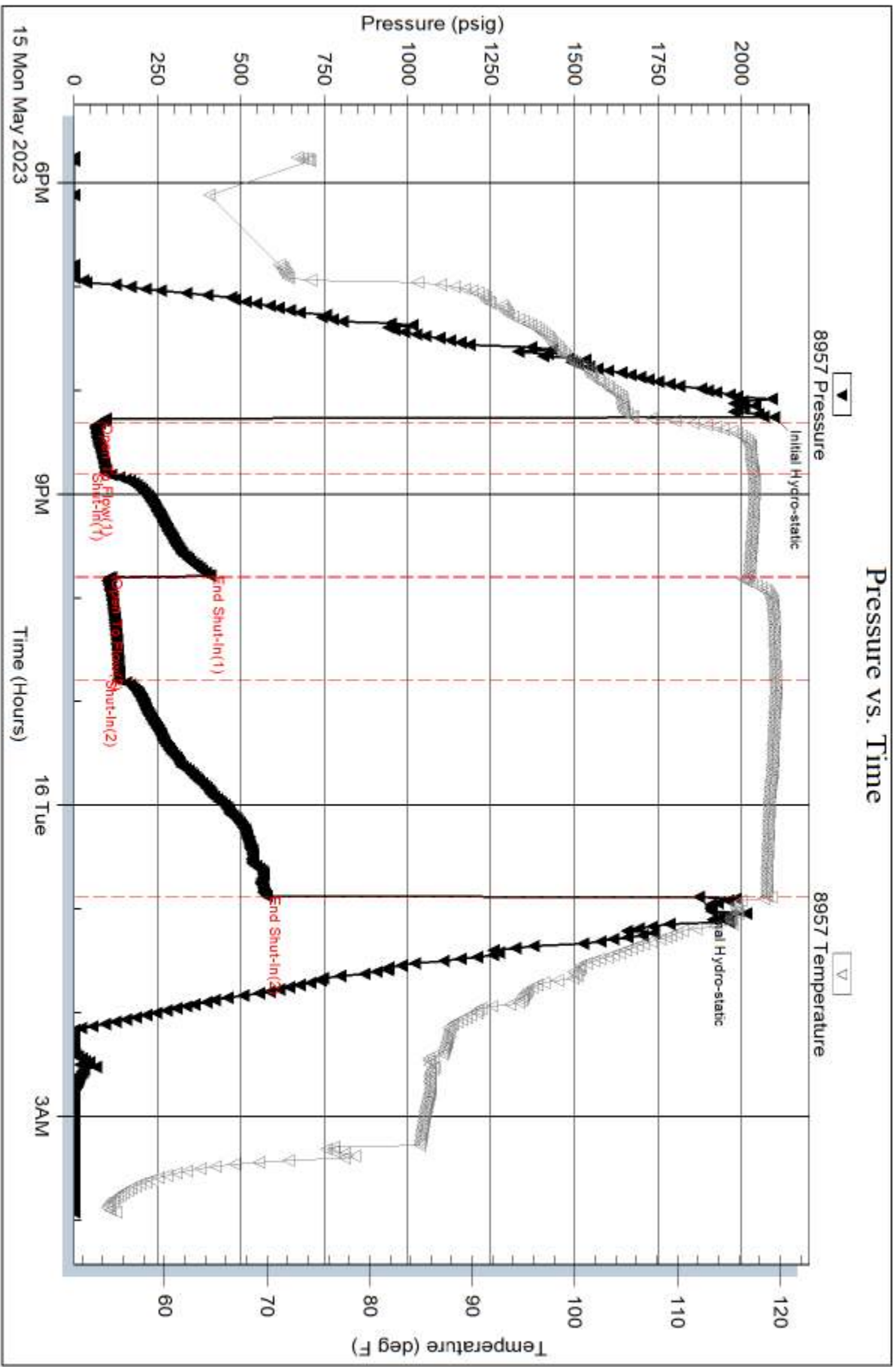
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



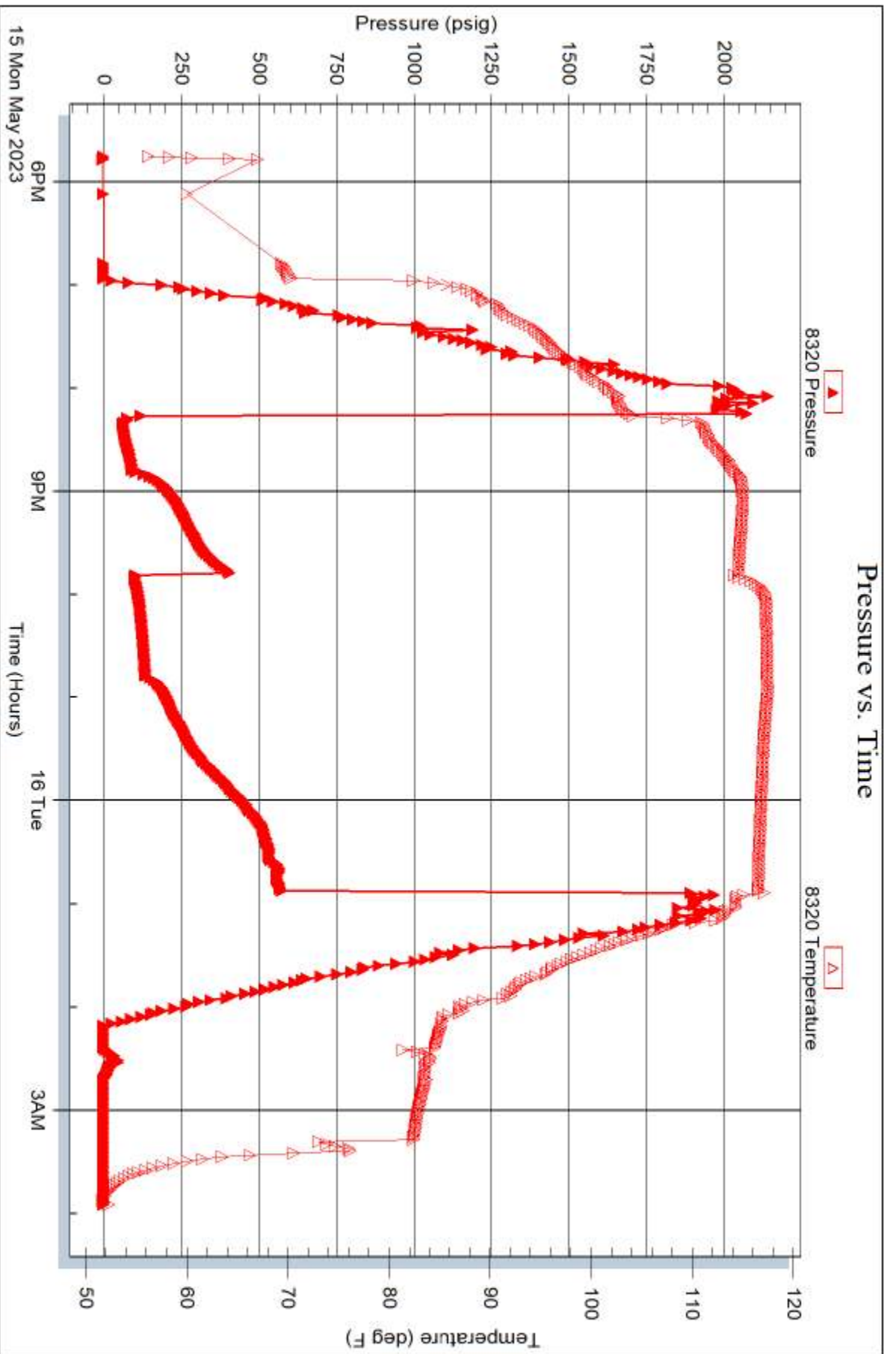
Serial #: 8320

Inside

Canyon Operating LLC

Richmeier #19-1

DST Test Number: 4







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **70328**

Well Name & No. Richmeier 19-1 Test No. 1 Date May 13, 23  
 Company Canyon Operating LLC Elevation 2554 KB 2551 GL  
 Address P.O. Box 7117 Loveland, Co. 80537-7117  
 Co. Rep / Geo Clayton Erickson Rig STP #2  
 Location: Sec. 19 Twp 9S Rge. 24W Co. Graham State KS

Interval Tested 3900-3960 Zone Tested LKL C-D  
 Anchor Length 60 Drill Pipe Run 3754 Mud Wt. 58  
 Top Packer Depth 3895 Drill Collars Run 121 Vis 9.0  
 Bottom Packer Depth 3900 Wt. Pipe Run \_\_\_\_\_ WL 7.6  
 Total Depth 3960 Chlorides 1900 ppm System LCM 2

Blow Description IF-30 - Surface Blow Died in 15 min  
ISI-60 - No Return  
ISI-60 - 9 inches  
ISI-90 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>460</u>	<u>OSMW</u>		<u>65</u>	<u>35</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 460 BHT 119 Gravity \_\_\_\_\_ API RW .16 @ 77 °F Chlorides 40,000 ppm  
 Initial Hydrostatic 1935  Test 1800  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 38 to 204  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 367  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 209 to 345  Hourly Standby \_\_\_\_\_  EM Tool Successful -175  
 Final Shut-In 316  Mileage 44x2 224  Accessibility \_\_\_\_\_  
 Final Hydrostatic 1820  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T-On Location 23:30  Straddle \_\_\_\_\_  Sub Total -175  
 Initial Flow 30 T-Started 02:46  Shale Packer 250  Total 2399  
 Initial Shut-In 60 T-Open 05:50  Extra Packer \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Flow 60 T-Pulled 09:50  Extra Recorder \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 T-Out 12:40  Day Standby \_\_\_\_\_

Comments \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]

TriLOBITE TESTING Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 70329

Well Name & No. Richmeier # 19-1 Test No. 2 Date May 13, 23  
 Company Canyon Operating LLC Elevation 2558 KB 2557 GL  
 Address P.O. Box 7117 Loveland, Co. 80537-7117  
 Co. Rep / Geo Clayton Erickson Rig STP # 2  
 Location: Sec. 19 Twp 9s Rge. 24w Co. Graham State KS

Interval Tested 3950 - 3982 Zone Tested LKC F  
 Anchor Length 32 Drill Pipe Run 3814 Mud Wt. 9.0  
 Top Packer Depth 3945 Drill Collars Run \_\_\_\_\_ Vis 58  
 Bottom Packer Depth 3950 Wt. Pipe Run 121 WL 7.6  
 Total Depth 3982 Chlorides 1900 ppm System LCM 2

Blow Description FF-30 - B.O.B. 9 min  
ESI-60 - No Return  
FF-30 - B.O.B. 17 min  
ESI-60 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>750</u>	<u>mw</u>			<u>85</u>	<u>15</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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 750 BHT 118 Gravity \_\_\_\_\_ API RW 12 @ 59 °F Chlorides 45,000 ppm  
 Initial Hydrostatic 1964  Test 1800  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 21 to 1464  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 764  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 174 to 250  Hourly Standby \_\_\_\_\_  EM Tool Successful \_\_\_\_\_  
 Final Shut-In 761  Mileage 64 x 2 224  Accessibility \_\_\_\_\_  
 Final Hydrostatic 1464  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T-On Location 20:30  Straddle \_\_\_\_\_  Sub Total 0  
 Initial Flow 30 T-Started 21:51  Shale Packer 250  Total 2574  
 Initial Shut-In 60 T-Open 00:50  Extra Packer \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Flow 30 T-Pulled 03:50  Extra Recorder \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 T-Out 06:30  Day Standby \_\_\_\_\_

Comments \_\_\_\_\_

Approved By Thanks!! Our Representative [Signature]

TriLOBITE TESTING INC. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 70330

Well Name & No. Richmeier # 19-1 Test No. 3 Date May 14, 23  
 Company Canyon Operating LLC Elevation 2554 KB 2551 GL  
 Address P.O. Box 7117 Loveland, Co. 80537-7117  
 Co. Rep / Geo Clayton Erickson Rig STP#2  
 Location: Sec. 19 Twp 9S Rge. 24W Co. Graham State KS

Interval Tested 4010 - 4085 Zone Tested LKc 5'  
 Anchor Length 75' Drill Pipe Run 3881 Mud Wt. 9.1  
 Top Packer Depth 4005 Drill Collars Run \_\_\_\_\_ Vis 58  
 Bottom Packer Depth 4010 Wt. Pipe Run 121 WL 7.8  
 Total Depth 4085 Chlorides 4000 ppm System LCM 2

Blow Description IF-30-BOB in 5 min (87" F-Pro Sensor)  
ISI-60- No Return  
EF-30-BOB in 5 min (15" F-Pro Sensor)  
FSI-60- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1500</u>		<u>100</u>			
<u>120</u>			<u>50</u>		<u>50</u>
<u>80</u>	<u>OSM</u>			<u>100</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 200 BHT 112 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

Initial Hydrostatic 2050  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 49 to 97  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 241  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 106 to 167  Hourly Standby \_\_\_\_\_  EM Tool Successful -175  
 Final Shut-In 393  Mileage 64 X 2 224  Accessibility \_\_\_\_\_  
 Final Hydrostatic 1883  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T-On Location 22:45  Straddle \_\_\_\_\_  Sub Total \_\_\_\_\_  
 Initial Flow 30 T-Started 23:11  Shale Packer 250  Total 2549  
 Initial Shut-In 60 T-Open 01:35  Extra Packer \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Flow 30 T-Pulled 04:35  Extra Recorder \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 T-Out 06:45  Day Standby \_\_\_\_\_

Comments \_\_\_\_\_

Approved By ThankSi Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 70331

Well Name & No. Richmeier #19-1 Test No. 4 Date May 15, 23  
 Company Canyon Operating LLC Elevation 2558 KB 2551 GL  
 Address P.O. Box 7117 Loveland, Co. 80537-7117  
 Co. Rep / Geo Clayton Erickson Rig STP 2  
 Location: Sec. 19 Twp 9S Rge. 24W Co. Graham State KS

Interval Tested 4081 - 4130 Zone Tested K-L  
 Anchor Length 49 Drill Pipe Run 3945 Mud Wt. 9.1  
 Top Packer Depth 4076 Drill Collars Run 121 Vis 5.8  
 Bottom Packer Depth 4081 Wt. Pipe Run \_\_\_\_\_ WL 7.8  
 Total Depth 4130 Chlorides 4,000 ppm System LCM 2

Blow Description FF-30-BOB in 4 min  
FSI-60-1/2 Return  
FF-60-7 inches  
FSI-120-No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>GMO</u>	<u>60</u>		<u>40</u>	
<u>200</u>		<u>100</u>		<u>0</u>	
<u>200</u>		<u>100</u>			

Rec Total 520 BHT 116 Gravity 33 API RW @ 55 \*F Chlorides \_\_\_\_\_ ppm  
 Initial Hydrostatic 2094  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 77 to 95  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 409  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 104 to 137  Hourly Standby \_\_\_\_\_  EM Tool Successful -350  
 Final Shut-In 577  Mileage 64 x 2 224  Accessibility \_\_\_\_\_  
 Final Hydrostatic 1873  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T-On Location 17:00  Straddle \_\_\_\_\_  Sub Total -350  
 Initial Flow 30 T-Started 19:45  Shale Packer 250  Total 2374  
 Initial Shut-In 60 T-Open 20:18  Extra Packer \_\_\_\_\_  Tool Loaded @ \_\_\_\_\_  
 Final Flow 60 T-Pulled 00:48  Extra Recorder \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 120 T-Out 04:00  Day Standby \_\_\_\_\_

Comments \_\_\_\_\_

Approved By Thanks Our Representative [Signature]

TriLOBITE TESTING INC. shall not be liable for damage of any kind of 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.



416 Main Street  
 P.O. Box 225  
 Victoria, KS 67671  
 Office (785) 639-3949  
 24 Hour Service Line (785) 639-7269

# Invoice

Date	Invoice #
5/8/2023	0929

Please Pay from this Invoice.  
 Remit Payment to:  
 416 Main Street PO BOX 225  
 Victoria, KS 67671  
 Billing Questions-Call Tianna at  
 (785) 639-3949  
 Email: franksoilfield@yahoo.com

KCC License Number  
 35469

Bill To
Canyon Operating, LLC P.O. Box 7117 Loveland, CO 80537-7117

County/State	Lease/Well#	Terms	Job Type
Graham County, KS	Richmeier 19-1	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	45	6.50	292.50
Ton Mileage (min.)	1	600.00	600.00
60/40 3%cal 2% gel	160	18.85	3,016.00T
Discount		-252.92	-252.92

Thank you!

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.	<b>Subtotal</b>	\$4,805.58
We appreciate your business and look forward to serving you again!	<b>Sales Tax (7.5%)</b>	\$214.89
	<b>Balance Due</b>	\$5,020.47

# FRANKS Oilfield Service

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

TICKET NUMBER 0929  
 LOCATION Hayes  
 FOREMAN Tom Williams

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-8-23	35571	Richtmeier 19-1	19	9	24	

CUSTOMER  
 Canyon Operating  
 MAILING ADDRESS  
 PO Box 2117  
 CITY  
 Loveland STATE  
 CO ZIP CODE  
 80537

TRUCK #	DRIVER	TRUCK #	DRIVER
103	Tom W		
202	Jack		

JOB TYPE 5u5m HOLE SIZE 12 1/4" HOLE DEPTH 222' CASING SIZE & WEIGHT 8 7/8" 23#  
 CASING DEPTH 222' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting & set up STP #2 Circulate mud.  
Mix 160# surface blend & displace 13 Bbl. shot in 1.15 pm  
Cement did circulate

Thanks Tom & Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P002	1	PUMP CHARGE <u>surface</u>	\$1150.00	\$1150.00
M001	45	MILEAGE	\$16.50	\$742.50
M002	7.84 tons	Ton Mileage Delivery	\$100.00	\$784.00
CB014	160#	60/40 3" dia 2.9 gal	\$19.82	\$3171.16
			sub total	\$5058.16
			less 5% disc	\$252.92
			sub total	\$4805.24
			SALES TAX	214.89
			ESTIMATED TOTAL	5020.13

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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



416 Main Street  
 P.O. Box 225  
 Victoria, KS 67671  
 Office (785) 639-3949  
 24 Hour Service Line (785) 639-7269

# Invoice

Date	Invoice #
5/17/2023	0944

Please Pay from this Invoice.  
 Remit Payment to:  
 416 Main Street PO BOX 225  
 Victoria, KS 67671  
 Billing Questions-Call Tianna at  
 (785) 639-3949  
 Email: franksoilfield@yahoo.com

KCC License Number  
 35469

Bill To
Canyon Operating, LLC P.O. Box 7117 Loveland, CO 80537-7117

County/State	Lease/Well#	Terms	Job Type
Graham County, KS	Richmeier 19-1	Net 30	DV Tool

Description	Quantity	Rate	Amount
Pump Charge	1	2,500.00	2,500.00
Mileage	45	6.50	292.50
26.28 tons at 45 miles	1,182.6	1.50	1,773.90
Medium Truck Miloase	45	1.50	67.50T
Class A 10% salt, 5 Kolseal	150	27.00	4,050.00T
60/40 8% gel 1/4# Flo-Seal	400	17.95	7,180.00T
5-1/2" DV Tool	1	4,200.00	4,200.00T
5-1/2" Guide Shoe AFU	1	600.00	600.00T
5-1/2" Flex Latchdown Plug & Assembly	1	695.00	695.00T
5-1/2" Basket	1	385.00	385.00T
5-1/2" Turbalizer Centralizers	11	108.00	1,188.00T
Mud Flush	500	1.00	500.00T
KCL	2	30.00	60.00T
Discount		-1,174.59	-1,174.59

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

**Subtotal** \$22,317.31

*We appreciate your business and look forward to serving you again!*

**Sales Tax (7.5%)** \$1,348.44

**Balance Due** \$23,665.75

# FRANKS Oilfield Service

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

TICKET NUMBER 0944  
 LOCATION Harve  
 FOREMAN Tom Williams

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
5-17-23	35571	Richmier 19-1	19	9	24	Graham																
CUSTOMER <u>Canyon Operating LLC</u>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>103</td> <td>Preston P</td> <td></td> <td></td> </tr> <tr> <td>202</td> <td>Jake T</td> <td></td> <td></td> </tr> <tr> <td>4/301</td> <td>Tom W</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	103	Preston P			202	Jake T			4/301	Tom W		
TRUCK #	DRIVER	TRUCK #					DRIVER															
103	Preston P																					
202	Jake T																					
4/301	Tom W																					
MAILING ADDRESS																						
CITY	STATE	ZIP CODE																				

JOB TYPE Du Tool HOLE SIZE 7 7/8" HOLE DEPTH 4206' CASING SIZE & WEIGHT 5 1/2" 15.5#  
 CASING DEPTH 4200' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting Ran float equipment + set up on STP#2  
Hooked up head & manifold. Circulate mud 1 hr. Mix 500 gal ME  
Followed by 20 Bbl KCL water. Mix 150 gal AWL. Wash up & displace plug.  
Prop dart 20 min pump dart open DU Tool. Circulate 1 hr.  
Mix 400 gal KCL. 30 RH 370 down hole. Wash up & displace Top  
plug. Release pressure. Rack up more oil

*Thanks Tom & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P004	1	PUMP CHARGE DU Tool	\$2500.00	\$2500.00
M001	45	MILEAGE	\$1.50	\$292.50
M002	26.25 tons	Ton Mileage Delivery	\$1773.90	\$1773.90
M004	45	Medium truck charge	\$1.50	\$67.50
CB031	150 gal	Class A 10% salt 5# Kalsol	\$27.00	\$4050.00
CB021	400 gal	60/40 8% gal 1/2# flocc	\$17.95	\$7180.00
FE099	1	5 1/2" DU Tool	\$4200.00	\$4200.00
FE0033	1	5 1/2" AFU guide shoe	\$100.00	\$100.00
FE052	1	5 1/2" latch down plug 9054	\$195.00	\$195.00
FE022	1	5 1/2" basket	\$385.00	\$385.00
FE014	11	5 1/2" turbolizer	\$158.00	\$1738.00
CP013	500 gal	mud flush	\$1.00	\$500.00
CP014	2 gal	KCL	\$30.00	\$60.00
CE009	+	head & manifold		
			sub total	\$73491.90
			less 5% disc.	\$1174.59
				\$72317.31
			SALES TAX	1348.44
			ESTIMATED TOTAL	23665.75

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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



Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Andrew J. French, Chairperson  
Dwight D. Keen, Commissioner  
Annie Kuether, Commissioner

Laura Kelly, Governor

September 27, 2023

Mike Bradley  
Canyon Operating LLC  
PO BOX 7117  
LOVELAND, CO 80537-7117

Re: ACO-1  
API 15-065-24240-00-00  
RICHMEIER 19-1  
NW/4 Sec.19-09S-24W  
Graham County, Kansas

Dear Mike Bradley:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 5/8/2023 and the ACO-1 was received on September 15, 2023 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department