

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 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)</i> <i>(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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Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	S&E RANCH 35B 1
Doc ID	1749627

All Electric Logs Run

Neutron Density
Dual Induction
Micro Resistivity
Sonic

Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	S&E RANCH 35B 1
Doc ID	1749627

Tops

Name	Top	Datum
Anhydrite	1318	+908
Heebner	3790	-1564
Lansing	3885	-1659
Stark	4126	-1900
BKC	4202	-1976
Ft Scott	4392	-2166
Cherokee	4418	-2192
Mississippi	4483	-2257

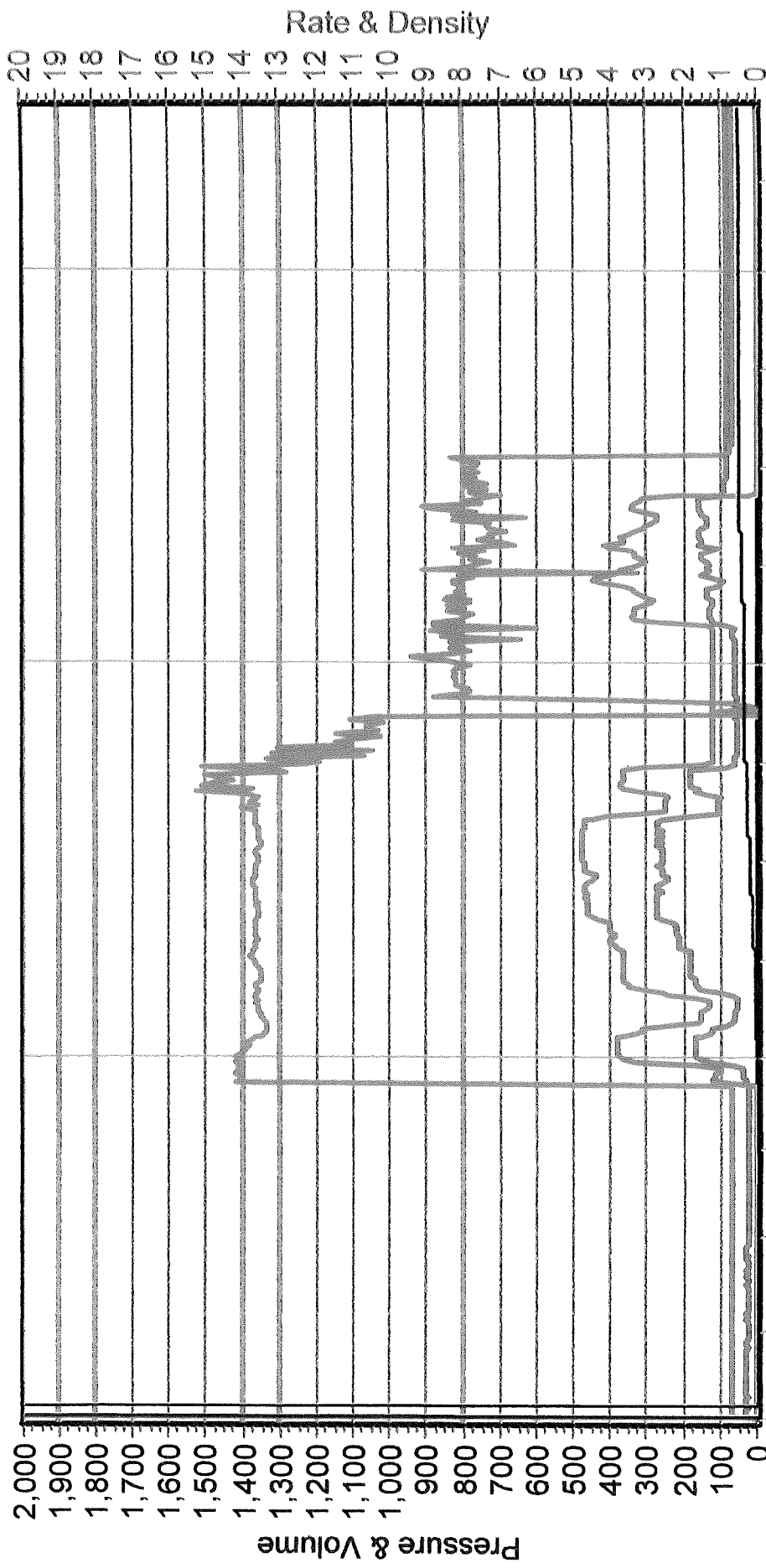






RITCHIE EXP, INC  
SE RANCH #1-35B  
8.625" SURFACE  
10/18/2023

— Pressure 1 — Density — Total Rate — Stage Vol.



10/18/2023 12:22:01 PM 10/18/2023 12:33:03 PM 10/18/2023 12:45:04 PM 10/18/2023 12:57:05 PM

# 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 1105

LOCATION Horize

FOREMAN Reston

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
10-28-23		S&L Ranch 35821	35	23	22	Horlogawa												
CUSTOMER <u>Ritchie Explorations</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>Chris K.</td> <td></td> <td></td> </tr> <tr> <td>201</td> <td>Jack Tull</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	103	Chris K.			201	Jack Tull		
TRUCK #	DRIVER	TRUCK #					DRIVER											
103	Chris K.																	
201	Jack Tull																	
MAILING ADDRESS																		
CITY	STATE	ZIP CODE																

JOB TYPE Log string HOLE SIZE 7 7/8" HOLE DEPTH 4516.5' CASING SIZE & WEIGHT 5 1/2" 15.5"  
 CASING DEPTH 4516.5' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting. Beyond Dike #9. Run 5 1/2" casing. Cement in location for the pump with fish. Run 30 seals, mouse hole w/ 20 seals mix 150 seals down hole brush up lines. Displace w/ 103 Bbl. Level plug w/ 1400' release hold.

*Reston*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PUMP	1	PUMP CHARGE	\$1850.00	\$1850.00
MILE	40	MILEAGE	\$6.50	\$260.00
MISC	10.73 tons		\$60.00	\$643.80
CE039	150 seals	class # 10 1/2" x 5" Kelsal/28 gel	\$27.50	\$4125.00
CP011	72'	insertion sealers	\$9.25	\$666.00
CE010	41 seals	10/40 40% gel 1/4" flaseal	\$17.35	\$707.50
FG033	1	5/8" API grade steel	\$600.00	\$600.00
FE022	1	5/8" latchdown plug case.	\$695.00	\$695.00
FE030	1	5/8" part collar	\$300.00	\$300.00
FE014	7	5/8" turbolines	\$108.00	\$756.00
FE022	2	5/8" linkers	\$385.00	\$770.00
FE022	2	5/8" stringers	\$35.00	\$70.00
CP013	500 gal.	mud flush	\$1.00	\$500.00
		sub total		\$14,904.30
		less 5% disc		\$740.22
		sub total		\$14,164.08
		SALES TAX		875.77
		ESTIMATED TOTAL		14939.85

AUTHORIZATION *[Signature]* TITLE PRODUCTION Supt DATE 10/28/23

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.



## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 2nd St N#700  
Wichita, KS. 67278

ATTN: John Goldsmith

### **S&E Ranch 35B #1**

### **35-23S-22W Hodgeman,KS**

Start Date: 2023.10.24 @ 11:57:19

End Date: 2023.10.24 @ 18:30:58

Job Ticket #: 71055                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.10.27 @ 17:09:52



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Ritchie Exploration

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71055

**DST#: 2**

ATTN: John Goldsmith

Test Start: 2023.10.24 @ 11:57:19

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:17:49

Time Test Ended: 18:30:58

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 4218.00 ft (KB) To 4290.00 ft (KB) (TVD)**

Reference Elevations: 2226.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

2213.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 72.68 psig @ 4225.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.10.24

End Date: 2023.10.24

Last Calib.: 2023.10.24

Start Time: 11:57:20

End Time: 18:30:59

Time On Btm: 2023.10.24 @ 14:16:29

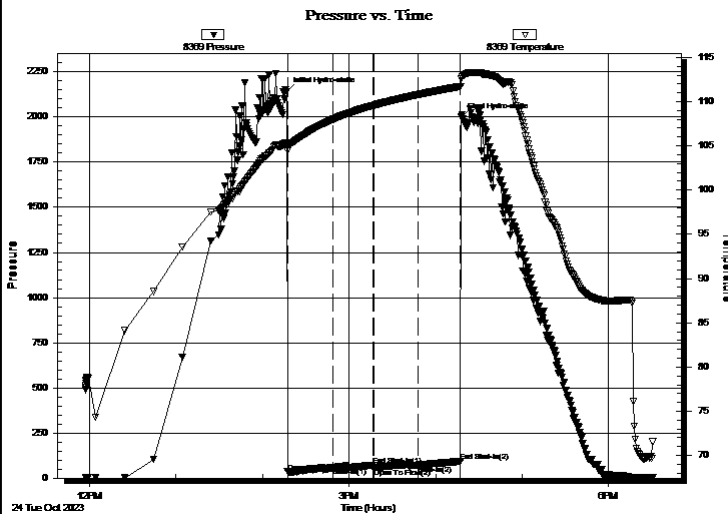
Time Off Btm: 2023.10.24 @ 16:17:49

**TEST COMMENT:** IF:Weak Building Blow built to .52" but died back to .20" (30)

IS:No Blow Back. (30)

FF:No Blow . (30)

FS:No Blow Back. (30)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.25	105.38	Initial Hydro-static
2	35.08	105.10	Open To Flow (1)
33	57.73	108.00	Shut-In(1)
61	71.34	109.56	End Shut-In(1)
61	52.49	109.57	Open To Flow (2)
92	72.68	110.79	Shut-In(2)
121	92.59	111.72	End Shut-In(2)
122	1998.69	112.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	OSM 100%M	0.01

## 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

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71055

**DST#: 2**

ATTN: John Goldsmith

Test Start: 2023.10.24 @ 11:57:19

## Tool Information

Drill Pipe:	Length: 4042.00 ft	Diameter: 3.88 inches	Volume: 59.11 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 59.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4218.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	103.00 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			4188.00	
Shut In Tool	5.00			4193.00	
Hydraulic tool	5.00			4198.00	
Em Tool	3.00			4201.00	
Jars	5.00			4206.00	
Safety Joint	3.00			4209.00	
Packer	4.00			4213.00	31.00 Bottom Of Top Packer
Packer	5.00			4218.00	
Stubb	1.00			4219.00	
Perforations	5.00			4224.00	
Change Over Sub	1.00			4225.00	
Recorder	0.00	8369	Outside	4225.00	
Recorder	0.00	8846	Inside	4225.00	
Blank Spacing	31.00			4256.00	
Change Over Sub	1.00			4257.00	
Perforations	30.00			4287.00	
Bullnose	3.00			4290.00	72.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>103.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Ritchie Exploration

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71055

**DST#: 2**

ATTN: John Goldsmith

Test Start: 2023.10.24 @ 11:57:19

### 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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	OSM 100%M	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

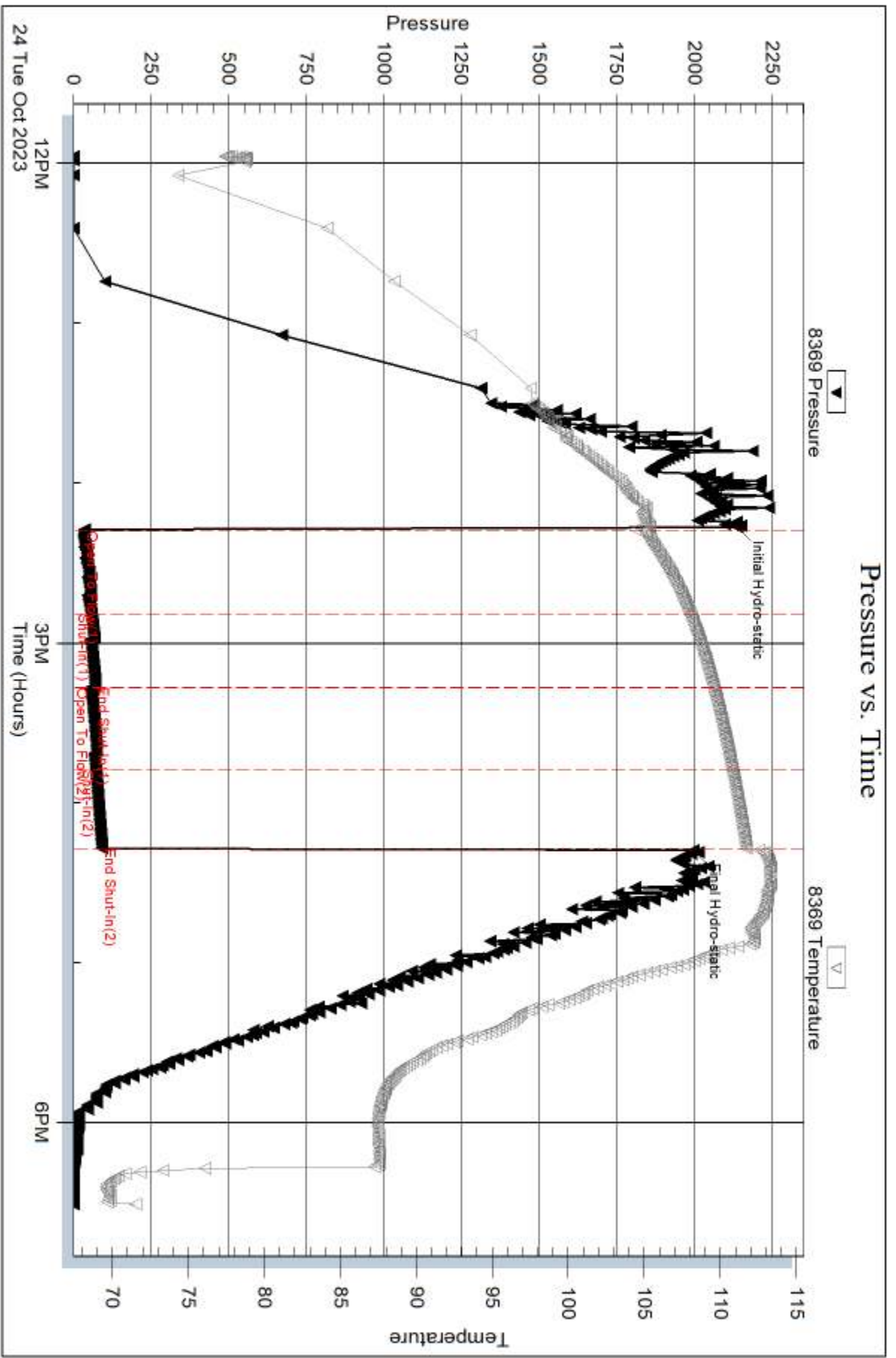
Num Gas Bombs: 0

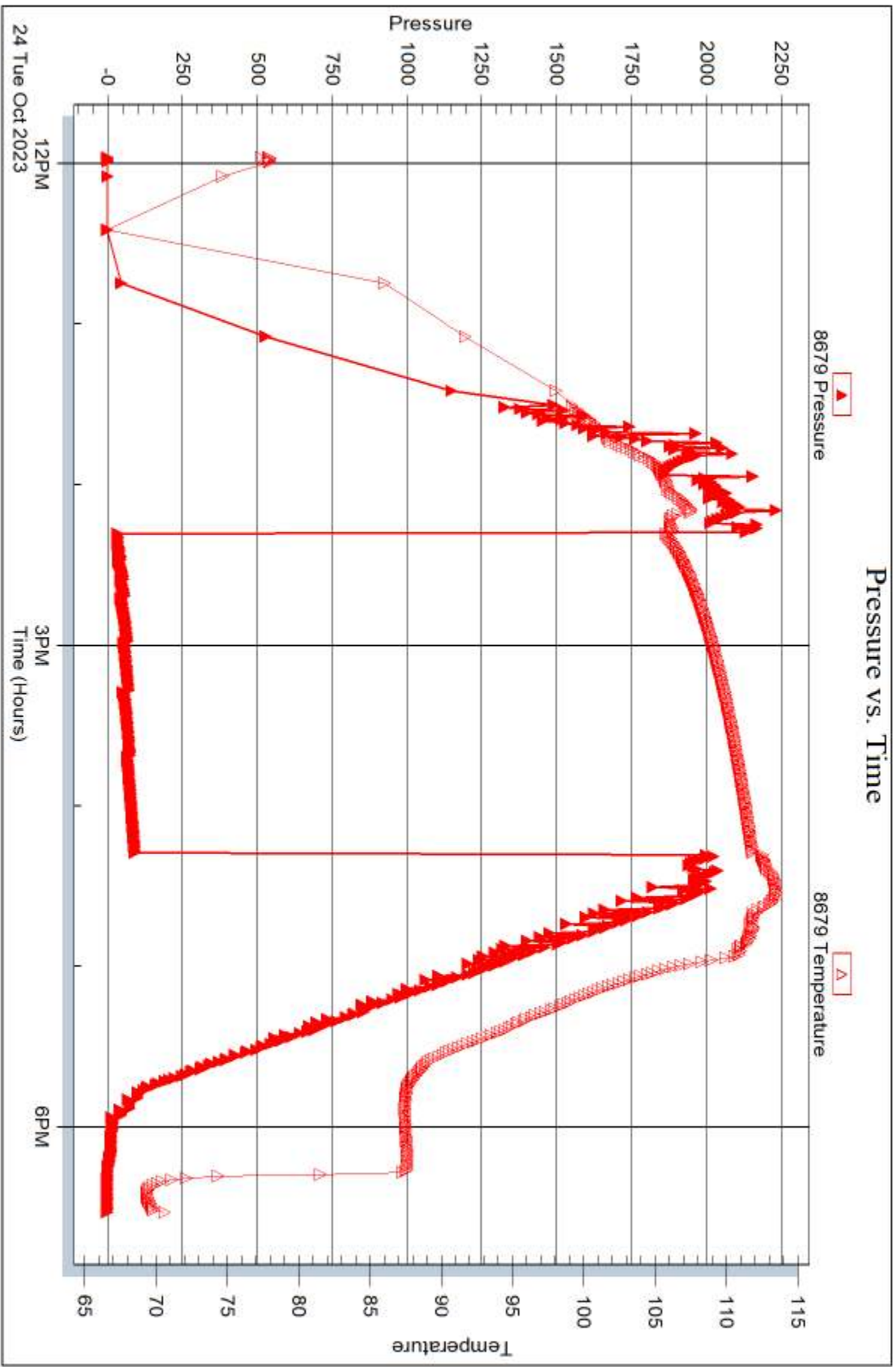
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 2nd St N#700  
Wichita, KS. 67278

ATTN: John Goldsmith

### **S&E Ranch 35B #1**

### **35-23S-22W Hodgeman,KS**

Start Date: 2023.10.25 @ 11:36:35

End Date: 2023.10.25 @ 19:02:35

Job Ticket #: 71056                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.10.27 @ 17:09:28



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Ritchie Exploration

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71056

**DST#: 3**

ATTN: John Goldsmith

Test Start: 2023.10.25 @ 11:36:35

## GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:59:05

Time Test Ended: 19:02:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 4378.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Reference Elevations: 2226.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

2213.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 25.37 psig @ 4379.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.10.25 End Date: 2023.10.25

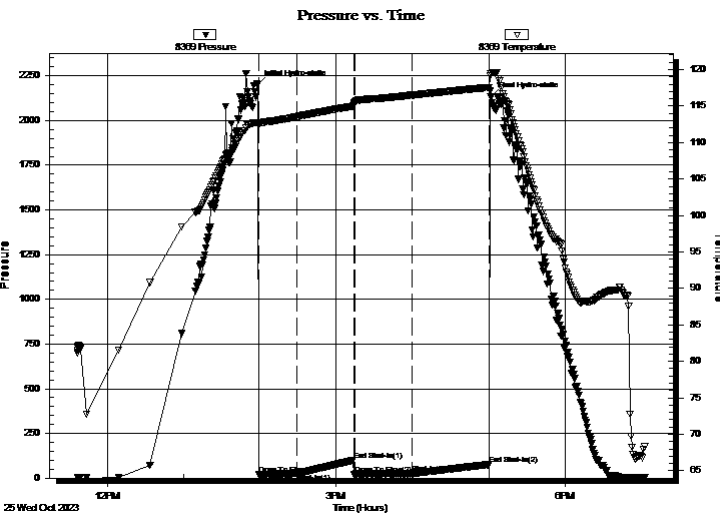
Last Calib.: 2023.10.25

Start Time: 11:36:36 End Time: 19:02:35

Time On Btm: 2023.10.25 @ 13:58:15

Time Off Btm: 2023.10.25 @ 17:01:25

**TEST COMMENT:** IF:Weak Surface blow built to .39" but died back to .22" (30)  
IS:No Blow Back. (45)  
FF:Weak Building Blow built to .63" but died back to .55" (45)  
FS:No Blow Back. (60)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.68	112.58	Initial Hydro-static
1	22.86	112.49	Open To Flow (1)
31	26.02	113.55	Shut-In(1)
76	100.62	115.00	End Shut-In(1)
77	21.73	115.43	Open To Flow (2)
122	25.37	116.50	Shut-In(2)
182	75.99	117.56	End Shut-In(2)
184	2133.69	119.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.05

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71056

**DST#: 3**

ATTN: John Goldsmith

Test Start: 2023.10.25 @ 11:36:35

## Tool Information

Drill Pipe:	Length: 4195.00 ft	Diameter: 3.88 inches	Volume: 61.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 62.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4378.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	73.00 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			4348.00	
Shut In Tool	5.00			4353.00	
Hydraulic tool	5.00			4358.00	
Em Tool	3.00			4361.00	
Jars	5.00			4366.00	
Safety Joint	3.00			4369.00	
Packer	4.00			4373.00	31.00 Bottom Of Top Packer
Packer	5.00			4378.00	
Stubb	1.00			4379.00	
Recorder	0.00	8369	Outside	4379.00	
Recorder	0.00	8846	Inside	4379.00	
Perforations	38.00			4417.00	
Bullnose	3.00			4420.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Ritchie Exploration

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71056

**DST#: 3**

ATTN: John Goldsmith

Test Start: 2023.10.25 @ 11:36:35

### 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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

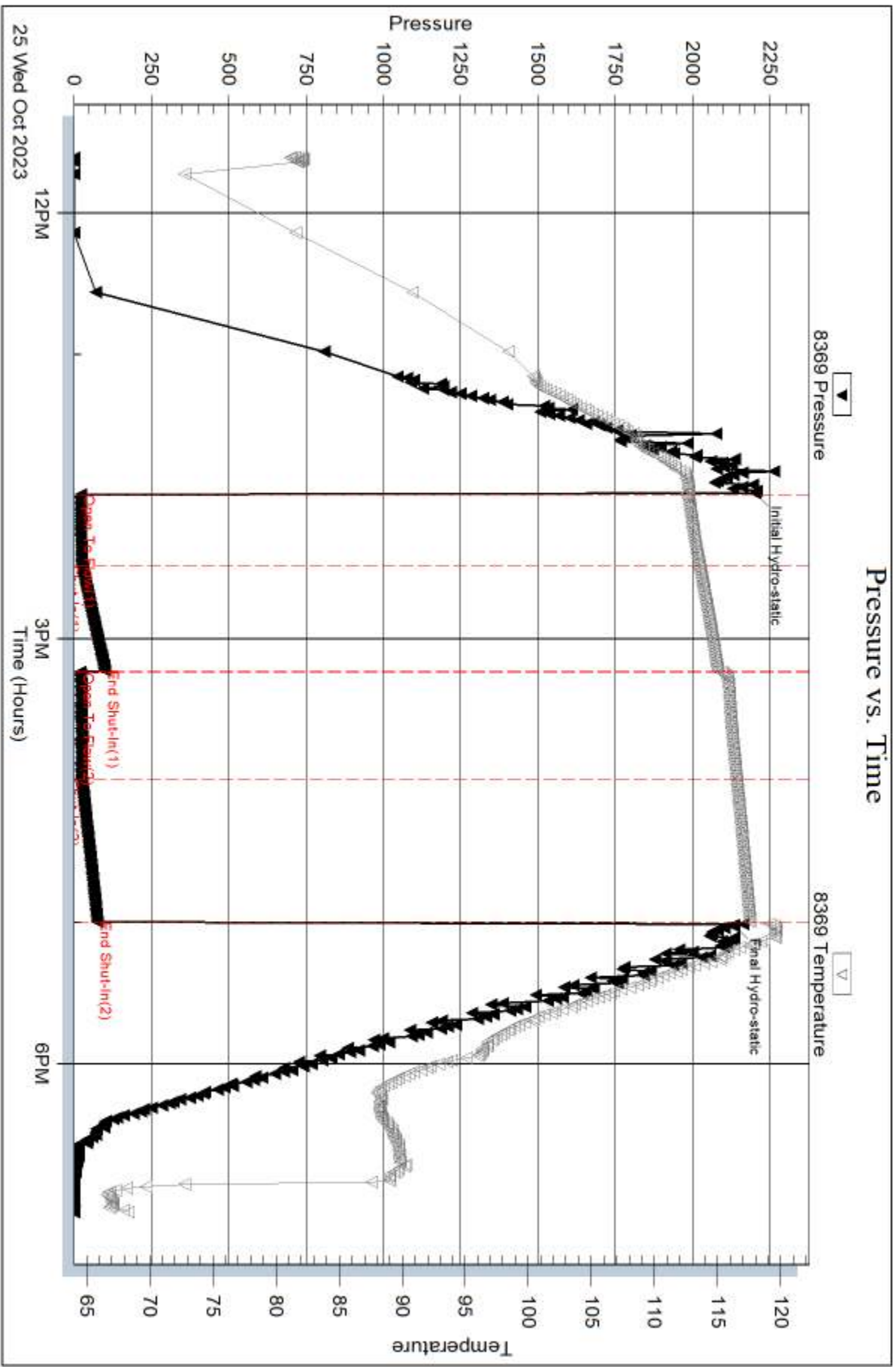
Num Gas Bombs: 0

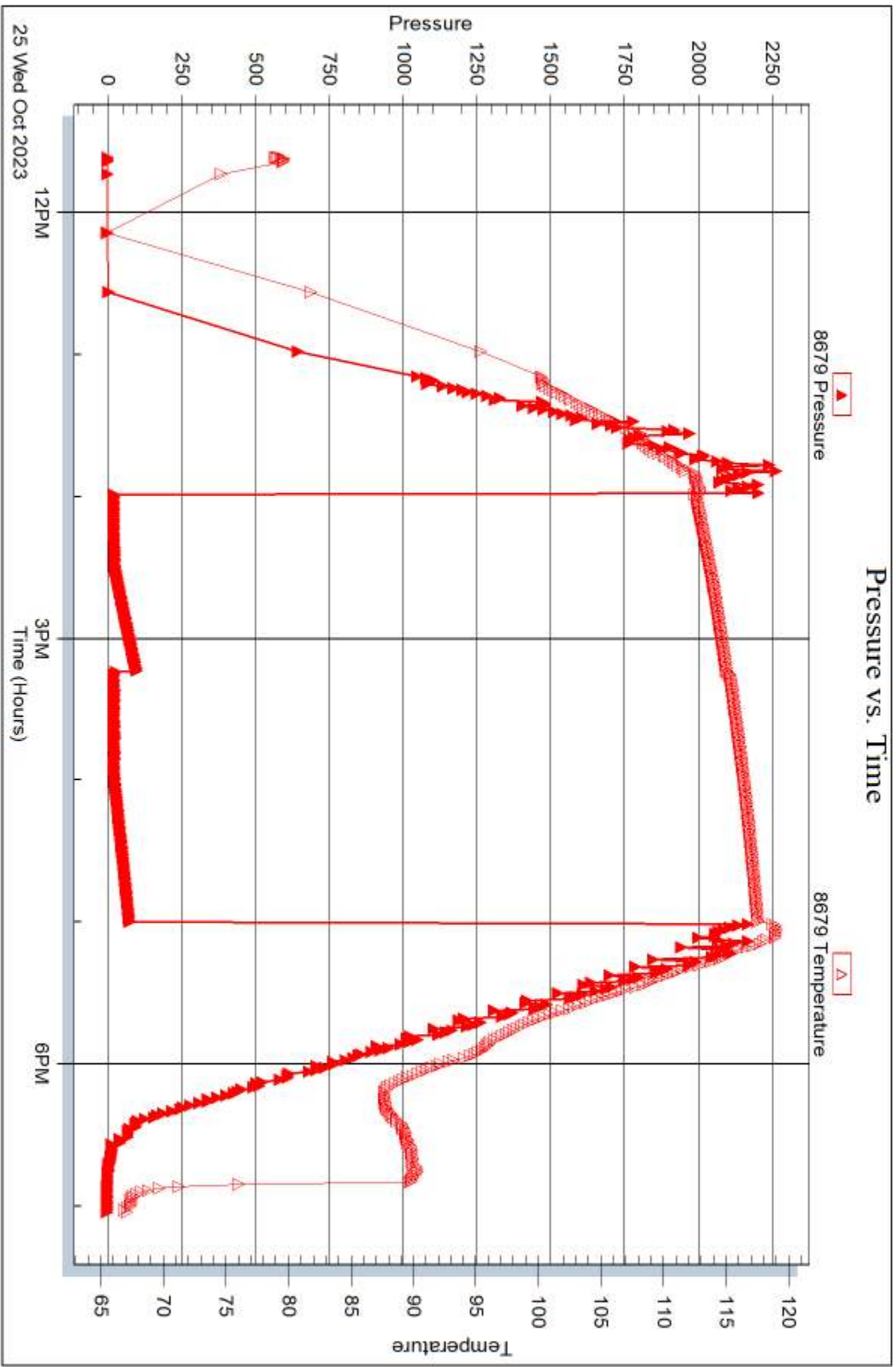
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 2nd St N#700  
Wichita, KS. 67278

ATTN: John Goldsmith

### **S&E Ranch 35B #1**

#### **35-23S-22W Hodgeman,KS**

Start Date: 2023.10.26 @ 05:20:28

End Date: 2023.10.26 @ 12:09:07

Job Ticket #: 71057                      DST #: 4

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

Printed: 2023.10.27 @ 17:09:02



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Ritchie Exploration

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71057

**DST#: 4**

ATTN: John Goldsmith

Test Start: 2023.10.26 @ 05:20:28

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:08

Time Test Ended: 12:09:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 4436.00 ft (KB) To 4490.00 ft (KB) (TVD)**

Reference Elevations: 2226.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

2213.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 49.30 psig @ 4440.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.10.26

End Date:

2023.10.26

Last Calib.:

2023.10.26

Start Time: 05:20:29

End Time:

12:09:08

Time On Btm:

2023.10.26 @ 07:46:18

Time Off Btm:

2023.10.26 @ 09:46:28

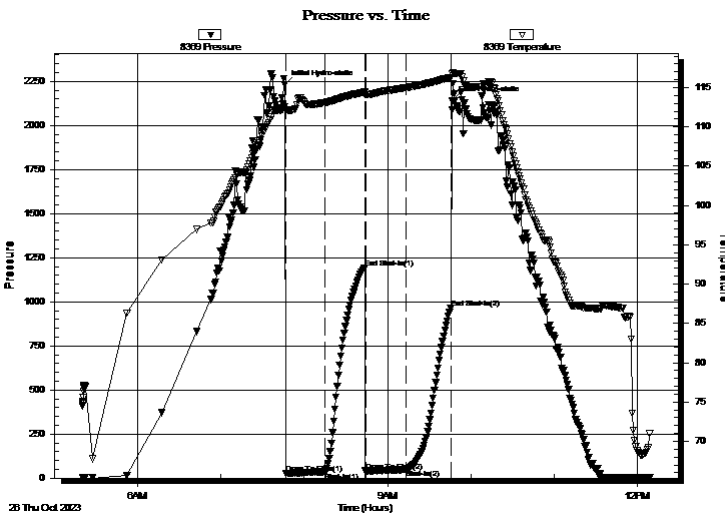
**TEST COMMENT:** IF:Weak Blow built to .55" but died back to .19" (30)

IS:No Blow Back. (30)

FF:No Blow . (30)

FS:No Blow Back. (30)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.59	112.55	Initial Hydro-static
1	26.98	112.12	Open To Flow (1)
29	35.71	113.09	Shut-In(1)
58	1194.03	114.41	End Shut-In(1)
58	40.95	114.11	Open To Flow (2)
88	49.30	114.99	Shut-In(2)
120	963.87	116.28	End Shut-In(2)
121	2139.16	116.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 5%G 5%O 2%W 88%M	0.30

\* 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

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71057

**DST#: 4**

ATTN: John Goldsmith

Test Start: 2023.10.26 @ 05:20:28

## Tool Information

Drill Pipe:	Length: 4260.00 ft	Diameter: 3.88 inches	Volume: 62.30 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 63.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4436.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	85.00 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			4406.00	
Shut In Tool	5.00			4411.00	
Hydraulic tool	5.00			4416.00	
Em Tool	3.00			4419.00	
Jars	5.00			4424.00	
Safety Joint	3.00			4427.00	
Packer	4.00			4431.00	31.00 Bottom Of Top Packer
Packer	5.00			4436.00	
Stubb	1.00			4437.00	
Perforations	2.00			4439.00	
Change Over Sub	1.00			4440.00	
Recorder	0.00	8369	Outside	4440.00	
Recorder	0.00	8846	Inside	4440.00	
Blank Spacing	31.00			4471.00	
Change Over Sub	1.00			4472.00	
Perforations	15.00			4487.00	
Bullnose	3.00			4490.00	54.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>85.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Ritchie Exploration

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71057

**DST#: 4**

ATTN: John Goldsmith

Test Start: 2023.10.26 @ 05:20:28

### 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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOWCM 5%G 5%O 2%W 88%M	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

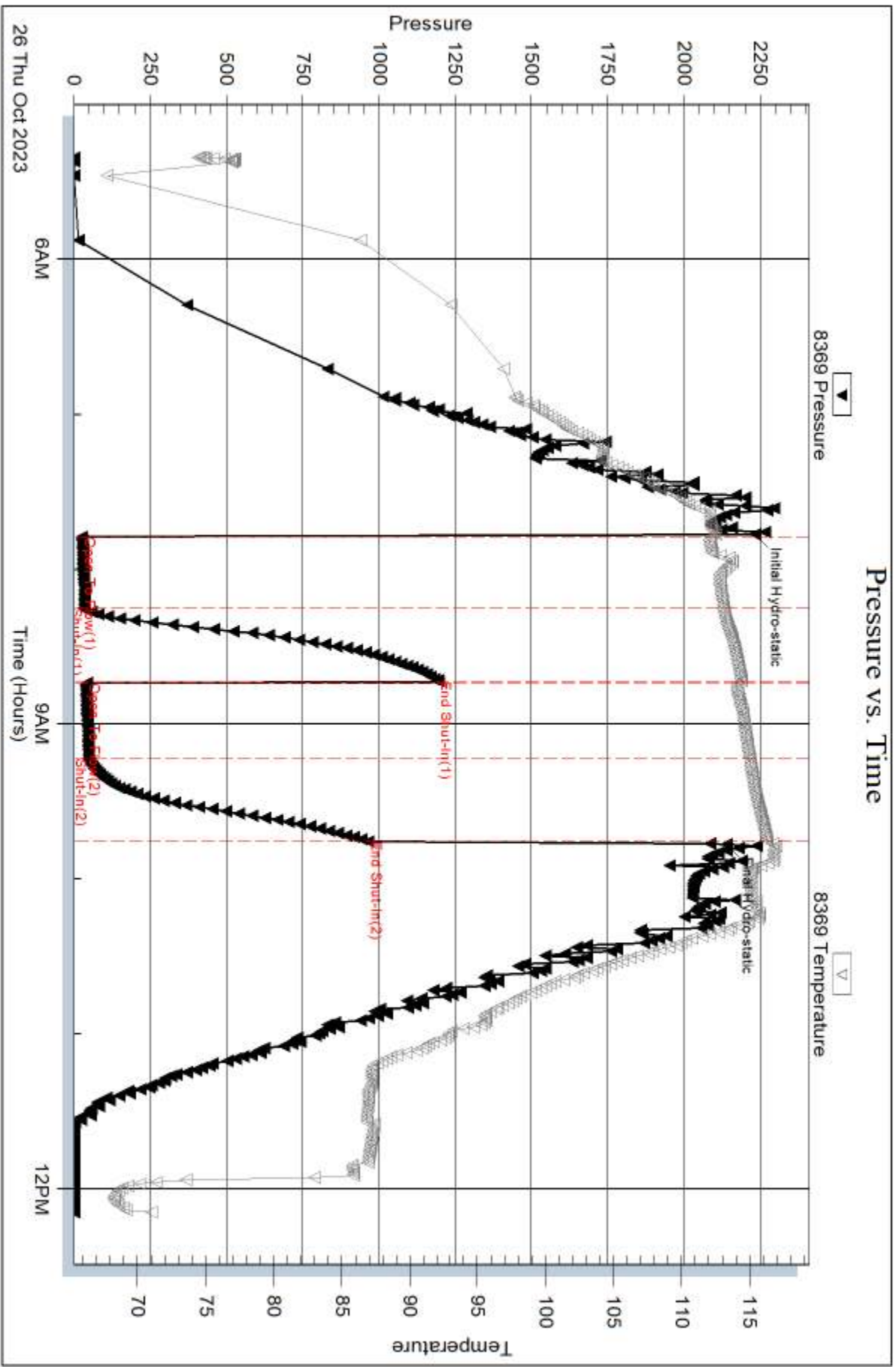
Num Gas Bombs: 0

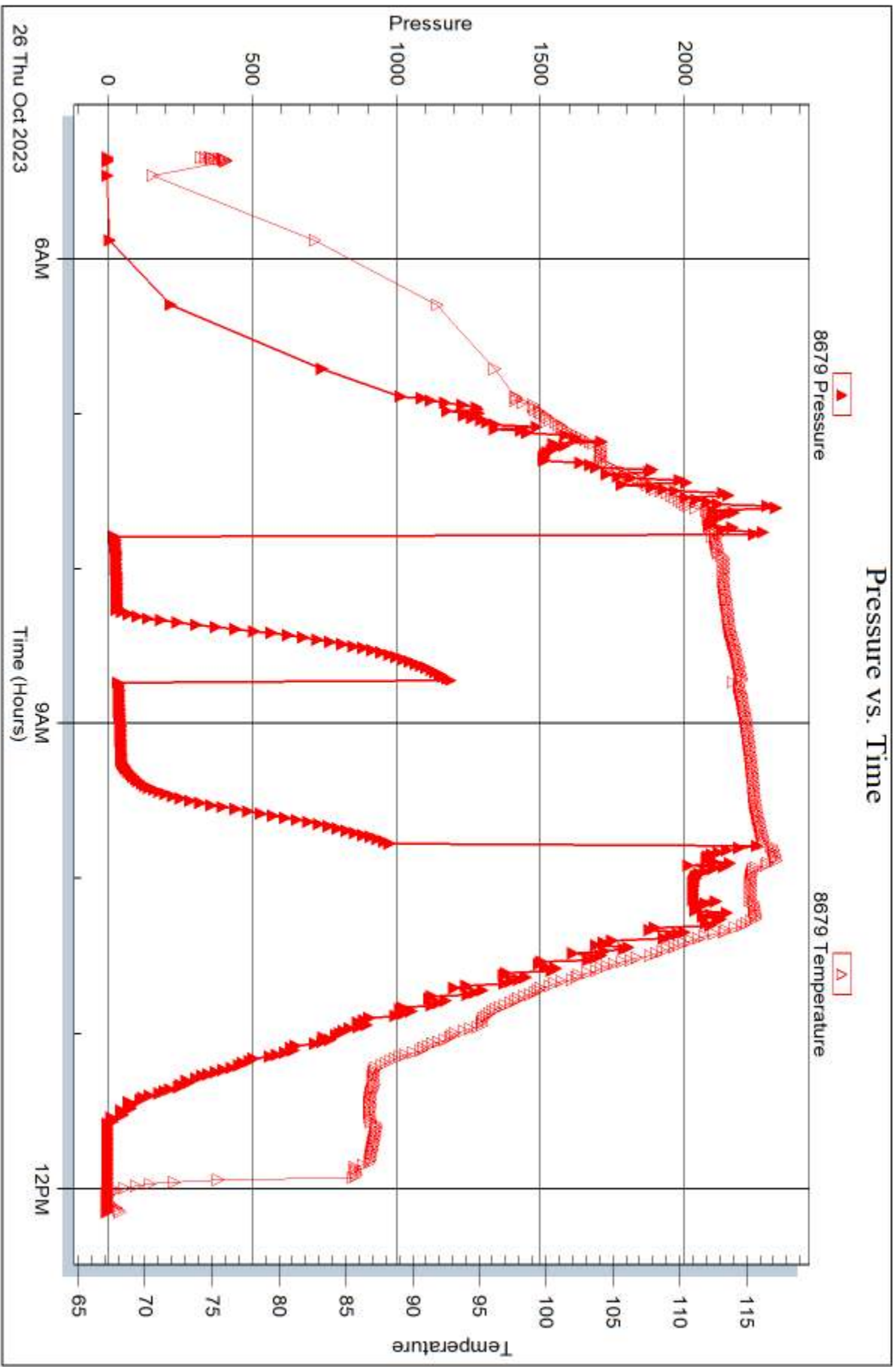
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

8100 E 2nd St N#700  
Wichita, KS. 67278

ATTN: John Goldsmith

### **S&E Ranch 35B #1**

### **35-23S-22W Hodgeman,KS**

Start Date: 2023.10.26 @ 18:00:28

End Date: 2023.10.27 @ 02:16:07

Job Ticket #: 71058                      DST #: 5

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

Printed: 2023.10.27 @ 17:08:32



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Ritchie Exploration

8100 E 2nd St N#700  
Wichita, KS. 67278

ATTN: John Goldsmith

**35-23S-22W Hodgeman,KS**

**S&E Ranch 35B #1**

Job Ticket: 71058

**DST#: 5**

Test Start: 2023.10.26 @ 18:00:28

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:05:08

Time Test Ended: 02:16:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 4489.00 ft (KB) To 4506.00 ft (KB) (TVD)**

Reference Elevations: 2226.00 ft (KB)

Total Depth: 4506.00 ft (KB) (TVD)

2213.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 232.14 psig @ 4490.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.10.26

End Date:

2023.10.27

Last Calib.:

2023.10.27

Start Time: 18:00:29

End Time:

02:16:08

Time On Btm:

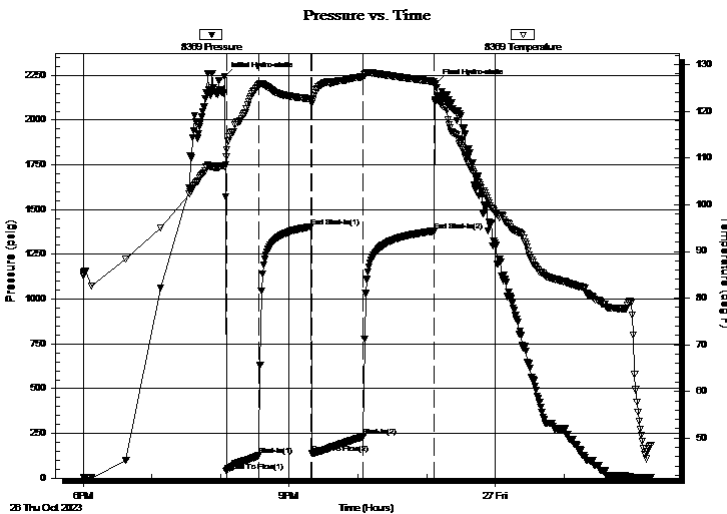
2023.10.26 @ 20:03:38

Time Off Btm:

2023.10.26 @ 23:08:08

**TEST COMMENT:** IF:Strong Building Blow built to 32.01" (30)  
IS:3.05" Blow back that died back to 1.51" (45)  
FF:Strong Building Blow built to 34.41" (45)  
FS: .41" Blow Back. (60)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2243.92	108.22	Initial Hydro-static
2	38.43	110.28	Open To Flow (1)
31	127.35	125.64	Shut-In(1)
76	1403.36	122.65	End Shut-In(1)
77	138.62	121.61	Open To Flow (2)
122	232.14	127.44	Shut-In(2)
183	1379.12	126.37	End Shut-In(2)
185	2204.76	122.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	GWMCO 26%G 50%O 12%W 12%M	0.91
63.00	GWCO 10%G 85%O 5%W	0.92
378.00	Oil 100%O	5.53
0.00	1008' 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

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71058

**DST#: 5**

ATTN: John Goldsmith

Test Start: 2023.10.26 @ 18:00:28

## Tool Information

Drill Pipe:	Length: 4291.00 ft	Diameter: 3.88 inches	Volume: 62.75 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 63.62 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4489.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	48.00 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			4459.00	
Shut In Tool	5.00			4464.00	
Hydraulic tool	5.00			4469.00	
Em Tool	3.00			4472.00	
Jars	5.00			4477.00	
Safety Joint	3.00			4480.00	
Packer	4.00			4484.00	31.00 Bottom Of Top Packer
Packer	5.00			4489.00	
Stubb	1.00			4490.00	
Recorder	0.00	8369	Outside	4490.00	
Recorder	0.00	8846	Inside	4490.00	
Perforations	13.00			4503.00	
Bullnose	3.00			4506.00	17.00 Bottom Packers & Anchor

**Total Tool Length: 48.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Ritchie Exploration

**35-23S-22W Hodgeman,KS**

8100 E 2nd St N#700  
Wichita, KS. 67278

**S&E Ranch 35B #1**

Job Ticket: 71058

**DST#: 5**

ATTN: John Goldsmith

Test Start: 2023.10.26 @ 18:00:28

### 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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8900.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	GW MCO 26%G 50%O 12%W 12%M	0.914
63.00	GWCO 10%G 85%O 5%W	0.921
378.00	Oil 100%O	5.528
0.00	1008' GIP	0.000

Total Length: 621.00 ft

Total Volume: 7.363 bbl

Num Fluid Samples: 0

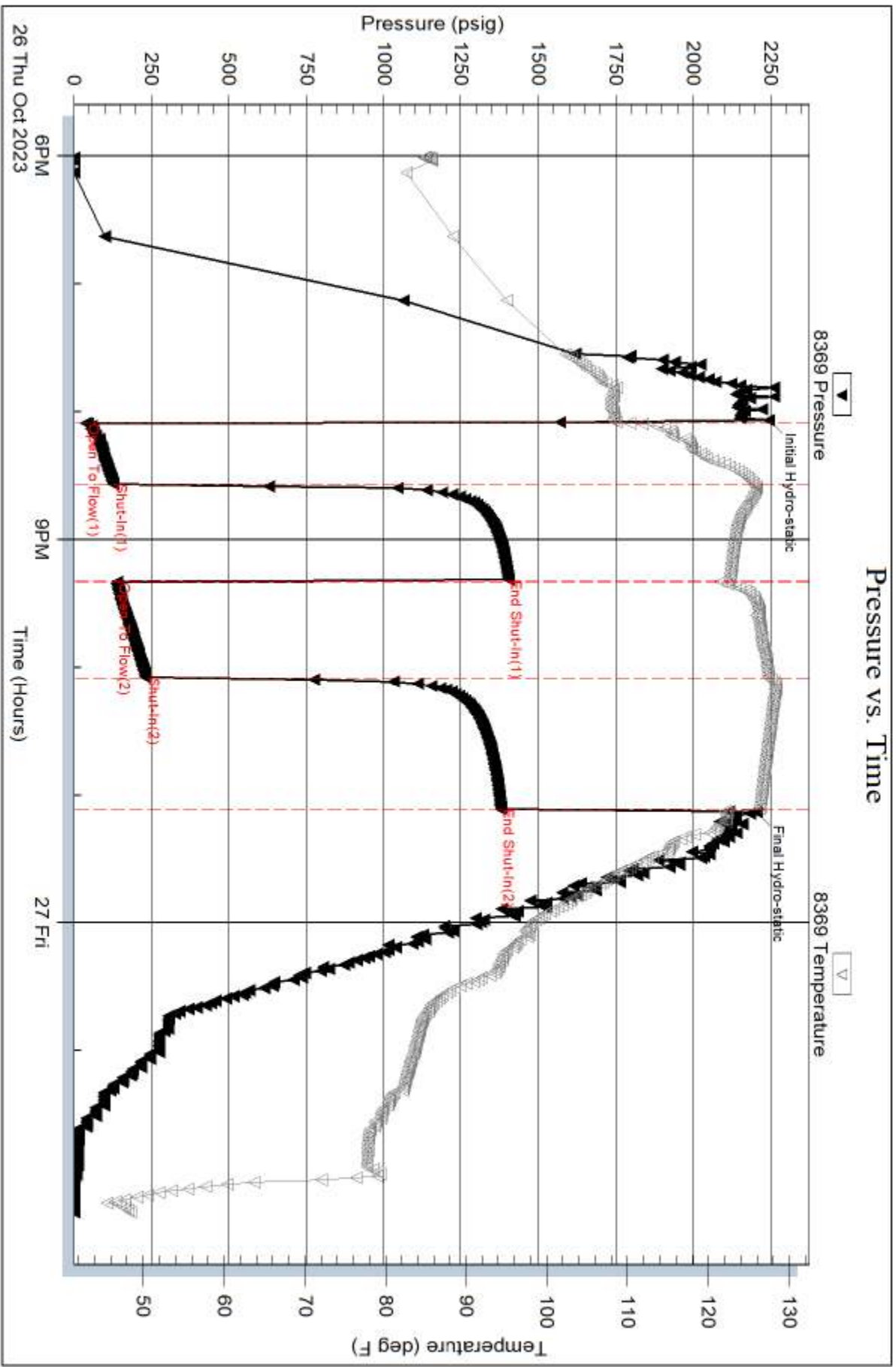
Num Gas Bombs: 0

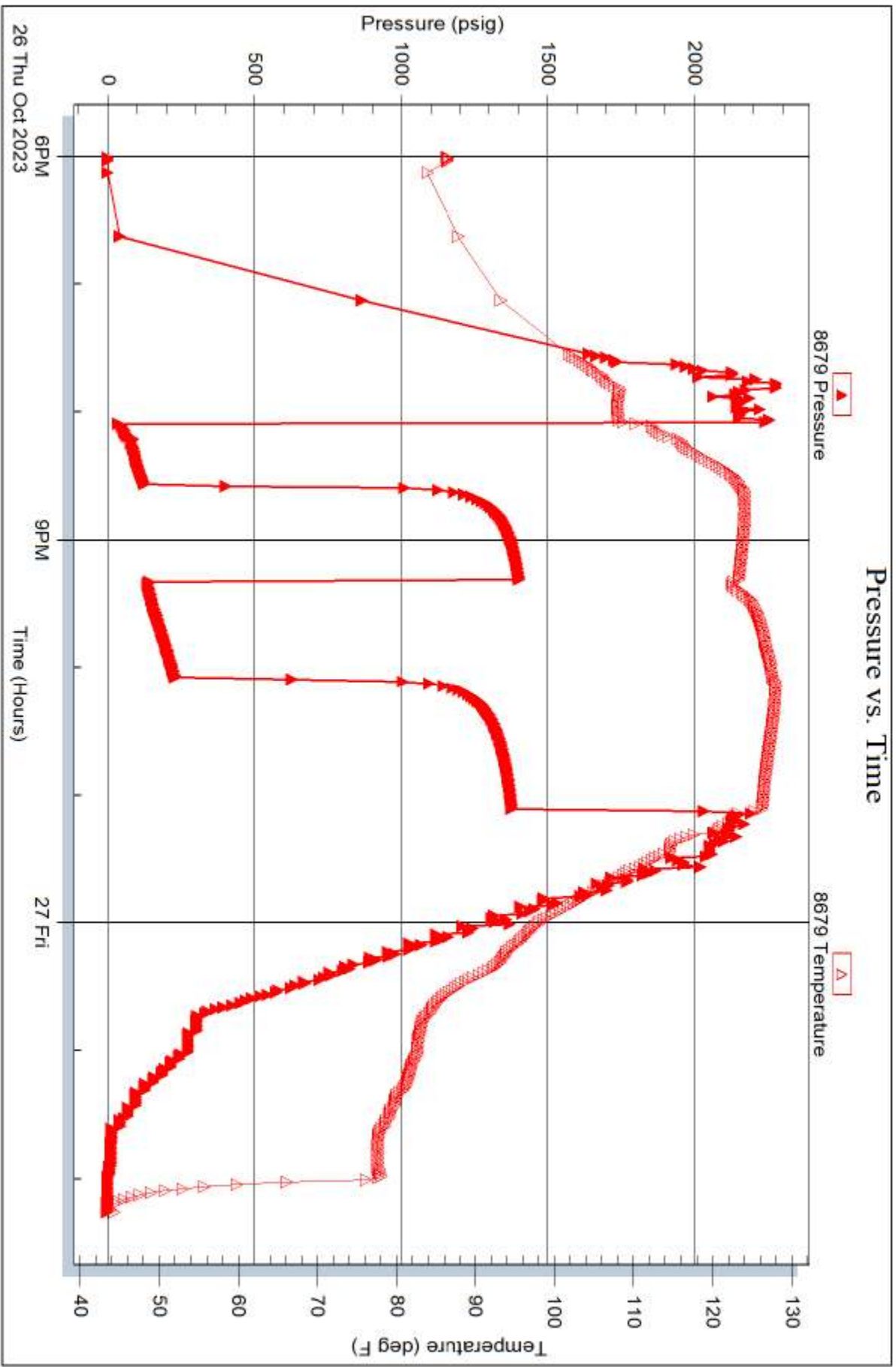
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 71054

Well Name & No. Alicia #1 SE Ranch 35B Test No. 1 Date 10/20/23  
 Company Ritchie Elevation 2226' KB 2213' GL \_\_\_\_\_  
 Address 8100 E 2nd St N#700 Wichita, KS 67278  
 Co. Rep / Geo. John Goldsmith Rig Duke 9  
 Location: Sec. 35 Twp 23S Rge. 22W Co. Hobbs State KS

Interval Tested 2305-2370' Zone Tested Krider  
 Anchor Length 65' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.4  
 Top Packer Depth 2297' Drill Collars Run \_\_\_\_\_ Vis 33  
 Bottom Packer Depth 2301' Wt. Pipe Run \_\_\_\_\_ WL ✓  
 Total Depth 2370' Chlorides 5400 ppm System LCM 3  
 Blow Description \_\_\_\_\_

Rec	Feet of	%gas	%oil	%water	%mud

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

Initial Hydrostatic \_\_\_\_\_  Test WOO \$275  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow \_\_\_\_\_ to \_\_\_\_\_  Jars \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_  Hotel NESS HOUSE  
 Final Flow \_\_\_\_\_ to \_\_\_\_\_  Hourly Standby \_\_\_\_\_  EM Tool Successful \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  Mileage 160 80mi 140 46mi 80.50  Accessibility \_\_\_\_\_  
 Final Hydrostatic \_\_\_\_\_  Sampler \_\_\_\_\_ 140  Gas Sample \_\_\_\_\_  
 T- On Location 1418  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow \_\_\_\_\_ T-Started 1525'  Shale Packer \_\_\_\_\_  Sub Total 0  
 Initial Shut-In \_\_\_\_\_ T-Open \_\_\_\_\_  Extra Packer \_\_\_\_\_  Total 635.50  
 Final Flow \_\_\_\_\_ T-Pulled \_\_\_\_\_  Extra Recorder \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ T-Out 1700  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_

Comments Upon Making UP Test tool Formation started taking mud Ritchie decided  
again to running test in current formation raising LCM and will drill approx. 200'  
of test

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_

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. 71055

Well Name & No. #1 S&E Ranch 35B Test No. 2 Date 10/24/23  
 Company Ritec Elevation 2226' KB 2213' GL  
 Address 8100 E 2nd ST N#7000 Wickenburg KS-67278  
 Co. Rep / Geo John Goldsmith Rig ouke 9  
 Location: Sec. 35 Twp 23S Rge. 23W Co. Hodge State KS

Interval Tested 4218' - 4290' Zone Tested Marmaton  
 Anchor Length 72' Drill Pipe Run 4042' Mud Wt. 9.25  
 Top Packer Depth 4210' Drill Collars Run 177' Vis 64  
 Bottom Packer Depth 4214' Wt. Pipe Run Ø WL 8.8  
 Total Depth 4290' Chlorides 2200 ppm System LCM 4

Blow Description IF: Weak Building blow built to .52" but died back to .20" (30)  
ISL: no blow back. (30)  
FI: No Blow. (30)  
ESI: no Blow Back. (30)

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>OSM</u>			<u>100</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 3 BHT 112 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

Initial Hydrostatic 2139  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 35 to 68  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 71  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 52 to 73  Hourly Standby \_\_\_\_\_  EM Tool Successful \_\_\_\_\_  
 Final Shut-In 93  Mileage 160 280  Accessibility \_\_\_\_\_  
 Final Hydrostatic 1999  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T-On Location 1020  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 30 T-Started 1157  Shale Packer \_\_\_\_\_  Sub Total 2233.33 - 350  
 Initial Shut-In 30 T-Open 1417  Extra Packer \_\_\_\_\_  Total 4413.33  
 Final Flow 30 T-Pulled 1622  Extra Recorder \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Shut-In 30 T-Out 1830  Day Standby 13 3d 19h  MP/DST Disc't \_\_\_\_\_

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 71056

Well Name & No. #1 St E Rang 35S Test No. 3 Date 10/25/23  
 Company Ritchie Elevation 2226' KB 2213' GL  
 Address 8100 E 2nd St NW 700 Wickenburg, KS 67278  
 Co. Rep / Geo. John Goldsmith Rig Ake 9  
 Location: Sec. 35 Twp 23S Rge. 22W Co. Hodgeman State KS

Interval Tested 4378' - 4420' Zone Tested Ft Scott  
 Anchor Length 42' Drill Pipe Run 495' Mud Wt. 9.3  
 Top Packer Depth 4376' Drill Collars Run 177' Vis 54  
 Bottom Packer Depth 4374' Wt. Pipe Run 0 WL 10.8  
 Total Depth 4420 Chlorides 5800 ppm System LCM 4

Blow Description IF: Weak Surface Blow built to .39" but died back to .22" (30)  
IS: No Blow back. (45)  
FF: Weak Building Blow built to .63" but died back to .55" (45)  
FSI:

Rec	Feet of	%gas	%oil	%water	%mud
10	OSM			100	

Rec Total 10 BHT 119 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ \*F Chlorides \_\_\_\_\_ ppm  
 Initial Hydrostatic 2201  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 23 to 26  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 101  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 22 to 25  Hourly Standby \_\_\_\_\_  EM Tool Successful -350  
 Final Shut-In 76  Mileage 82 161  Accessibility \_\_\_\_\_  
 Final Hydrostatic 2134  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_  
 T-On Location 1020  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 30 T-Started 1136  Shale Packer \_\_\_\_\_  Sub Total -350  
 Initial Shut-In 45 T-Open 1358  Extra Packer \_\_\_\_\_  Total 2061  
 Final Flow 45 T-Pulled 1700  Extra Recorder \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Shut-In 60 T-Out 1902  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ 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. **71057**

Well Name & No. #1 S&E Ranch Test No. 4 Date 10/26/23  
 Company Ritchie Elevation 2226' KB 2213' GL  
 Address 8100 E 2nd ST M# 700 Wichita, KS. 67228  
 Co. Rep / Geo John Goldsmith Rig \_\_\_\_\_  
 Location: Sec. 35 Twp 23S Rge. 2A W Co. Harborman State KS

Interval Tested 4436' - 4490' Zone Tested MISS  
 Anchor Length 54' Drill Pipe Run 4260' Mud Wt. 9.3  
 Top Packer Depth 4428' Drill Collars Run 177' Vis 54  
 Bottom Packer Depth 4432' Wt. Pipe Run 0' WL 10.8  
 Total Depth 4430 Chlorides 5800 ppm System LCM 4

Blow Description IF: Weak Blow built to .55" but died back to .19

ISI: No Blow Back. (30)

FF: NO Blow. (30)

FSI: NO Blow Back. (30)

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>					

Rec Total 60 BHT 116 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ \*F Chlorides \_\_\_\_\_ ppm

Initial Hydrostatic 2233  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 27 to 36  Jars 300  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 1194  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 41 to 49  Hourly Standby \_\_\_\_\_  EM Tool Successful -350  
 Final Shut-In 964  Mileage 160 161  Accessibility \_\_\_\_\_  
 Final Hydrostatic 2139  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_

T- On Location 0900  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 30 T-Started 0520  Shale Packer \_\_\_\_\_  Sub Total -350  
 Initial Shut-In 30 T-Open 0739  Extra Packer \_\_\_\_\_  Total 2061  
 Final Flow 30 T-Pulled 0940  Extra Recorder \_\_\_\_\_  Tool Loaded \_\_\_\_\_ @ \_\_\_\_\_  
 Final Shut-In 30 T-Out 1209  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_

Comments \_\_\_\_\_

Approved By \_\_\_\_\_ 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. **71058**

Well Name & No. #1 S+E Ranch 355 Test No. 5 Date 10/26/83  
 Company Ritchie Elevation 2226' KB 2213' GL  
 Address 8100 E 2nd St NE 700 Witches, KS 67278  
 Co. Rep / Geo John Goldsmith Rig Duke 1  
 Location: Sec. 35 Twp 23S Rge. 22W Co. Hoke State KS.

Interval Tested 4489' - 4506' Zone Tested MISS  
 Anchor Length 17' Drill Pipe Run 4291' Mud Wt. 9.4  
 Top Packer Depth 4485' Drill Collars Run 177' Vis 47  
 Bottom Packer Depth 4485' Wt. Pipe Run 0' WL 12.4  
 Total Depth 4506' Chlorides 8900 ppm System LCM 3

Blow Description FF Strong Building Blow built to 32.01" (30)  
FF: 3.05" Blow back but died back to 1.51" (45)  
FF Strong Building Blow built to 34.41" (60) (45)  
FSD: .41" Blow back. (60)

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>1008' GIP</u>	<u>100</u>			
<u>378</u>	<u>oil</u>		<u>100</u>		
<u>63</u>	<u>GWCO</u>	<u>10</u>	<u>85</u>	<u>5</u>	
<u>180</u>	<u>GWMC0</u>	<u>26</u>	<u>50</u>	<u>12</u>	<u>12</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 621 BHT 122 Gravity 37@60 API RW \_\_\_\_\_ @ \_\_\_\_\_ \*F Chlorides 10,000 ppm

Initial Hydrostatic 2244  Test 1950  Ruined Shale Packer \_\_\_\_\_  
 Initial Flow 38 to 127  Jars 300  Ruined Packer \_\_\_\_\_

Initial Shut-In 1403  Circ Sub \_\_\_\_\_  Hotel \_\_\_\_\_  
 Final Flow 139 to 232  Hourly Standby \_\_\_\_\_  EM Tool Successful -350

Final Shut-In 1379  Mileage 160 161 + 161  Accessibility \_\_\_\_\_  
 Final Hydrostatic 2205  Sampler \_\_\_\_\_  Gas Sample \_\_\_\_\_

T- On Location 17K  Straddle \_\_\_\_\_  Oversized Hole \_\_\_\_\_  
 Initial Flow 30 T-Started 1800  Shale Packer \_\_\_\_\_  Sub Total -350

Initial Shut-In 45 T-Open 2008  Extra Packer \_\_\_\_\_  Total 2222  
 Final Flow 45 T-Pulled 2308  Extra Recorder \_\_\_\_\_  Tool Loaded 10/27 @ 1200

Final Shut-In 60 T-Out 0216  Day Standby \_\_\_\_\_  MP/DST Disc't \_\_\_\_\_  
 Comments \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# Wellsite Services, LLC

**John Goldsmith**  
**(316) 640-0236**

**427 Roosevelt St.**  
**Cheney, KS 67025**

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

Well Name: #1 S&E Ranch 35B  
API: 15-083-22035  
Location: 1628'FNL & 382'FWL in Sec. 35-23S-22W  
License Number: #4767  
Spud Date: 10/18/2023  
Surface Coordinates: Lat = 38.010336  
Long = -99.714199  
Bottom Hole Coordinates: 1/2 Degree Deviation  
Ground Elevation (ft): 2213' K.B. Elevation (ft): 2226'  
Logged Interval (ft): 3800 To: 4565 Total Depth (ft): 4565  
Formation: Mississippi Osage  
Type of Drilling Fluid: Chemical

Region: Hodgman Co.  
Drilling Completed: 10/27/2023

Printed by MudLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

## OPERATOR

Company: Ritchie Exploration Inc.  
Address: 8100 E 22nd St. N  
Bldg. #700  
Wichita, KS 67226

## GEOLOGIST

Name: John Goldsmith  
Company: Wellsite Service LLC  
Address: 427 Roosevelt St.  
Cheney, KS 67025  
(316) 640-0236

## Comments

Contractor: Duke Drilling Rig #9  
Pusher: Emigdio Rojas (620) 655-7138  
Collar Talley 575.4 (9 Stands)  
Surface Casing: 6 jnts of 8 5/8" set @ 270'  
Prod Casing: 5.5" 15.5# set @ 4562'  
Mud by: MudCo  
DST's by: Trilobite Testing  
Logs by: ELI (DIL, CN-CD, ML, CS)  
RTD = 4565'  
LTD = 4564'

Formation	Sample Tops		E-Log Tops	
	Depth	Datum	Depth	Datum
Anhydrite	1318'	+908	1318'	+908
B/Anhydrite	1353'	+873	1354'	+872
Stotler	3226'	-1000	3222'	-996
Heebner	3790'	-1564	3792'	-1566
Toronto	3816'	-1590	3814'	-1588
Lansing	3885'	-1659	3882'	-1656
Muncie	4026'	-1800	4023'	-1797
Stark	4126'	-1900	4127'	-1901
Hushpuckney	4167'	-1941	4167'	-1941
BKC	4202'	-1976	4202'	-1976
Marmaton	4245'	-2019	4244'	-2018
Altamont	4272'	-2046	4273'	-2047
Pawnee	4336'	-2110	4334'	-2108
Ft Scott	4392'	-2166	4394'	-2168
Cherokee	4418'	-2192	4418'	-2192
Mississippi	4483'	-2257	4480'	-2254
RTD	4565'	-2339	4564'	-2338
LTD				

#### DSTs

**DST #1: 2305'-2370' Krider 10-20-23**

Was unable to run test due to losing mud before running tool in. LCM was increased and hole stabilized. No test was ran.

**DST #2: 4218'-4290' Marmaton 10-24-23**

IF: Wk blw blt to .52" (No BB)

FF: No blw (No BB)

Hyd = 2139-1999#

IFP = 35-58# ISIP: 71#

FFP = 52-73# FSIP: 93#

Rec: 3' OSM

**DST #3: 4378'-4420' Ft Scott 10-25-23**

IF: Wk blw blt to .39" (No BB)

FF: Wk blw blt to .63" (No BB)

Hyd = 2201-2134#

IFP = 23-26# ISIP: 101#

FFP = 22-25# FSIP: 76#

Rec: 10' OSM

**DST #4: 4436'-4490' Miss 10-26-23**

IF: Wk blw blt to .55" (No BB)

FF: No blw (No BB)

Hyd = 2233-2139#

IFP = 27-36# ISIP: 1194#

FFP = 41-49# FSIP: 964#

Rec: 60' GOWCM

**DST #5: 4489'-4506' Miss 10-26-23**

IF: Strg blw blt to 32" (3" BB)

FF: Strg blw blt to 34.5" (.5" BB)

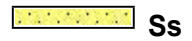
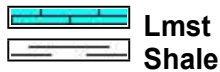
Hyd = 2244-2205#

IFP = 38-127# ISIP: 1403#

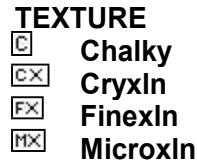
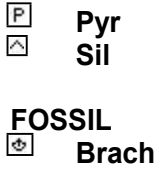
FFP = 139-232# FSIP: 1379#

Rec: 1008' GIP, 378' Oil, 63' GWCO, 180' GWMCO

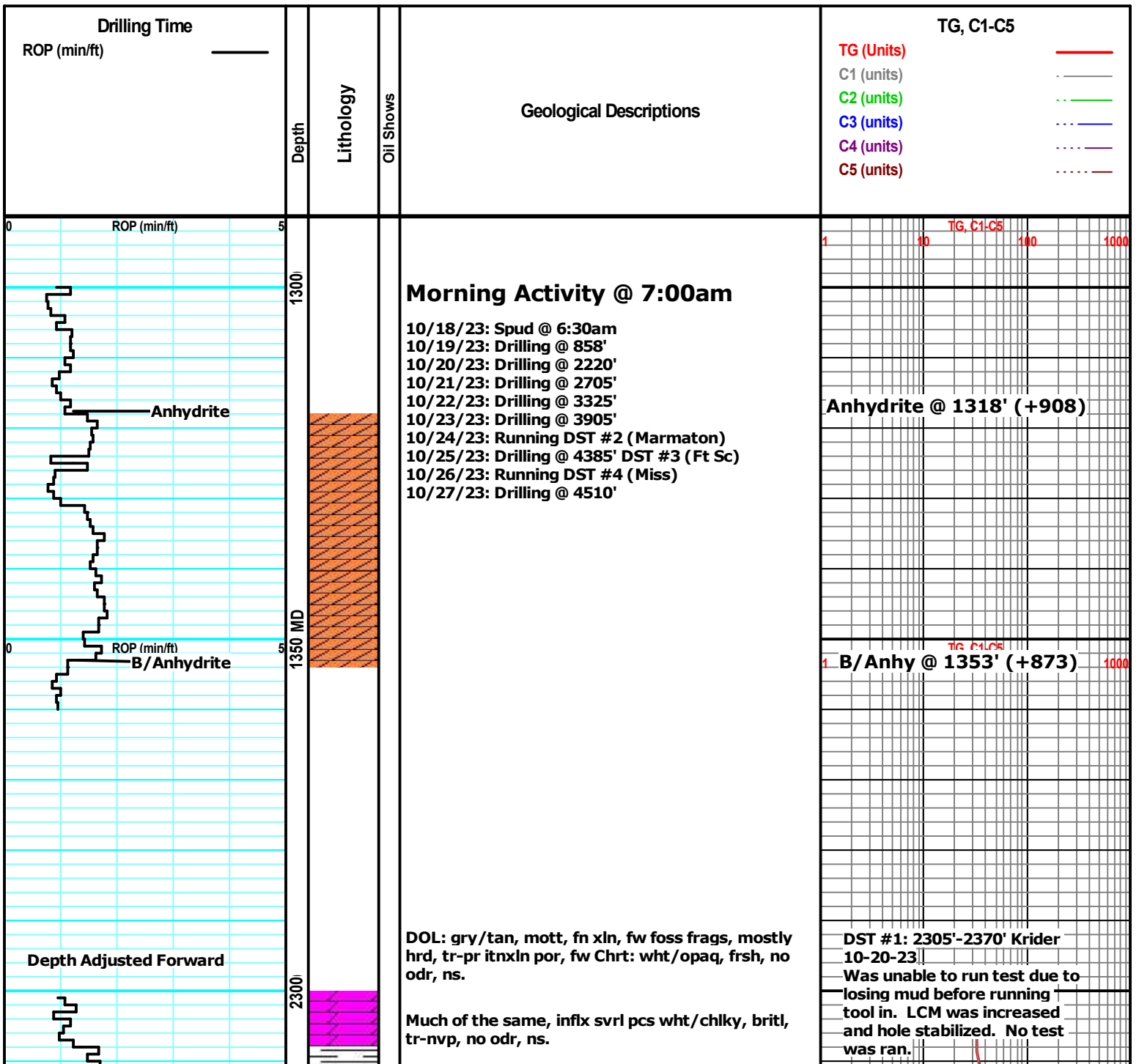
**ROCK TYPES**

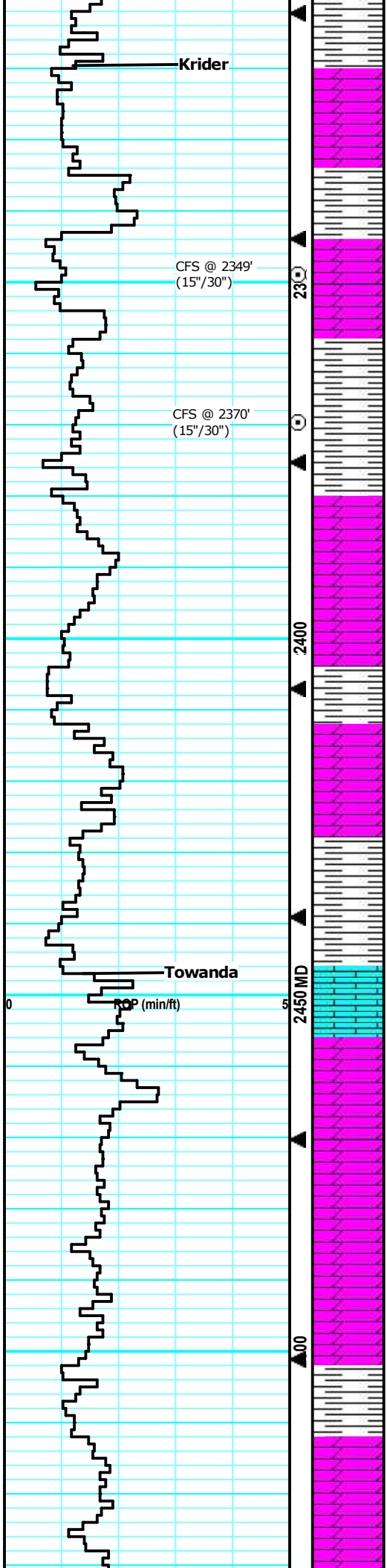


**ACCESSORIES**



**OTHER SYMBOLS**





SltStn: brn/lt brn, gritty, soft, fw DOL: gry, v fw w/ gd por, britl, sml blk spcs, no fluor/odr.

DOL: gry, suc, mostly firm, sm tan/hard, tr-ppt intxn por, svrl pcs chlk, no odr, ns.

DOL: gry/lt gry, mott in prt, fn xln, suc, sm hard, tr-ppt intxn por, fw Chrt: gry, sharp, no odr, no fluor.

DOL: gry, gritty/suc, sm firm, tr-v pr ppt intxn por, sm SH: gry/grn, soft, no odr/fluor.

DOL: gry/lt gry, mostly suc, sm firm, fw lrg xln, vuggy por, sm SH: gry/grn, no odr/fluor.

DOL: tan/gry, mott, fn-med xln, pr ppt intxn por, britl, no odr/fluor.

DOL: gry/lt gry, suc, fr ppt intxn por in sm, v fw vugs, sm firm, no odr/no fluor.

DOL: lt gry/tan, fn xln, mostly dense, sm britl, tr-nvp, svrl SH: brn/gry, soft, no odr, ns.

Much of the same w/ infx SltStn: lt brn, soft, sm muddy.

DOL: tan/lt gry/gry, mott, fn xln, gritty/suc, chlky in prt, tr-ppt intxn por in sm, no odr/ns.

Much of the sm, sm SH: grn/brn, soft, waxy, no odr/ns.

SH: gry/brn/gry, soft, waxy.

DOL: gry/lt gry, mott, grainy, tr-nvp por, svrl SH: gry/brn, no odr/fluor.

Much of the same, abund SH: brn/gry/grn, soft.

LS: gry/lt tan, fn xln, fw flakey, no odr/fluor.

LS: gry/lt tan, mott in prt, fn xln, sm flakey, many firm, tr-nvp, fw DOL: gry, dense, firm, tr-nvp, no odr, ns.

DOL: gry/dense, tr-nvp, sm SH: brn/gry/grn, no odr/fluor.

Much of the same.

DOL: gry, slight mott, mostly dense, sm brittle, tr-nvp, fw Chrt, no odr/fluor.

Much of the same.

LS: gry/lt tan, slight mott, fn xln, fw foss frags, tr-nvp, sm DOL: gry, mostly dense, tr-nvp, no odr/no fluor.

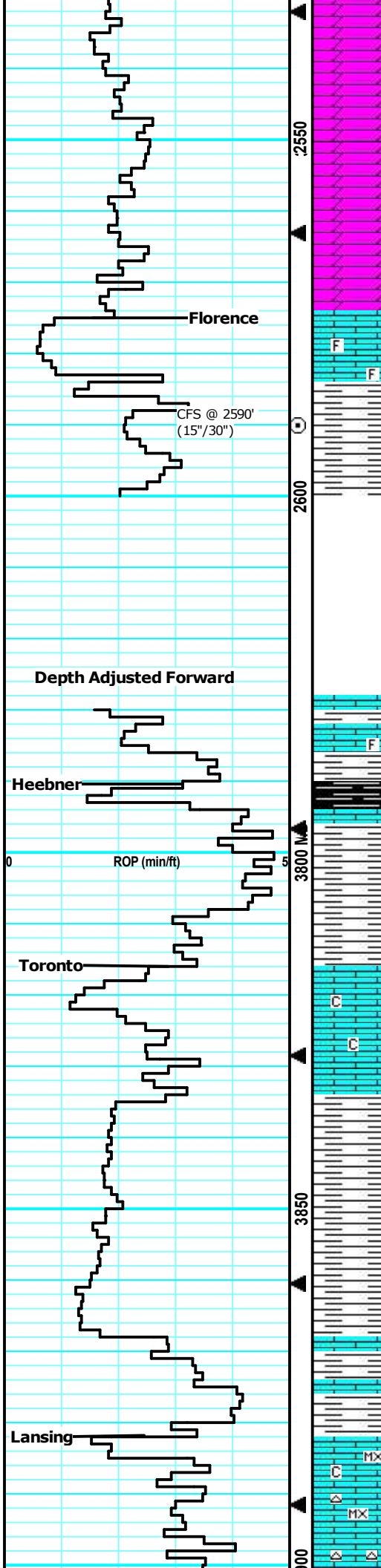
LS: gry/lt tan, fn xln, many dense, sub-chlky in prt, tr-nvp, no odr, no fluor.

Krider @ 2320' (-94)

Small Increase in TG

Towanda @ 2447' (-221)





Much of the same.

LS: gry/tan, mott, fn xln, many foss, fw flakey/mealy, tr-pr intxln por in v fw, many firm, no odr, ns.

Much of the same foss LS, no odr, ns.

LS: gry/tan, mott, many v foss, sub-chlky in prt, tr-nvp, fw pcs Chrt: gry/smoke, sharp, no odr/no flour.

LS: tan/lt gry, fn xln, sm v foss, mostly dense, britl, sub-chlky in prt, tr-nvp, no odr/no flour.

SH: gry/brn/grn, soft, fw waxy.

SH: gry, soft, silty, fw LS: tan/lt tan, slght mott, fn xln, fw foss frags, sub-chlky, nvp, no odr/ns.

SH: blk, carb.

SH: gry, silty, soft.

LS: crm/lt tan, sing, micro-fn xln, chlky, britl, tr-nvp, svrl pcs pur chlk, no odr/ns.

LS: tan/lt tan, sing, fn xln, dense, sm britl, sub-chlky in prt, tr-nvp, fw pcs pur chlk, no odr/ns.

Much of the same LS, lrg infx SH: gry/brn, silty, soft, no odr/ns.

SH: brn/gry/grn, silty, soft, muddy.

SH: gry/drk gry, sm soft, fw waxy, sm fissile.

LS: tan/lt tan, mott in prt, fw foss, sm flakey/mealy, hard, tr-nvp, svrl SH: gry, soft, no odr/ns.

LS: crm/lt tan, sing, micro-fn xln, sub-chlky, britl, nvp, fw pcs pur chlk, fw Chrt: wht/opaq, oll, sharp, no odr/ns.

Much of the same.

Florence @ 2575' (-349)

Heebner @ 3790' (-1564)

Toronto @ 3816' (-1590)

Lansing @ 3882' (-1656)

TG, C1-C5  
1 10 100 1000

CFS @ 3904'  
(20"/45")

C Zone

D Zone

F Zone

E Zone

G Zone

ROP (mth/ft)

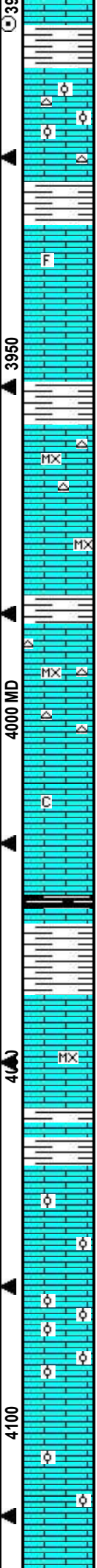
Muncie

H Zone

I Zone

J Zone

CFS @ 4113'  
(20"/45")



LS: gry/tan, mott, v ool, many hrd, sm britl, tr-nvp, fw Chrt: gry/brn, sharp, infx gry SH: fissile, med crsh, no odr/ns.

LS: lt tan, sing, fn xln, sub-chlky, britl, tr-nvp, fw Chrt: gry/wht, foss, no odr/ns.

LS: tan/lt tan, sing, fn xln, fw flky/mealy, sm hard, tr-nvp, fw Chrt: gry/wht, sm SH: gry/drk gry, fissile, no odr/ns.

LS: gry/tan, mott, fn xln, foss, sm britl, v fw pcs w/ drk spec stns, no flour, nsfo, pos drk dead oil, no odr.

LS: lt gry/lt tan, sing, fn xln, mostly dense, flakey/mealy in prt, tr-nvp, no odr/ns.

Much of the same, infx SH: gry, soft, no odr/ns.

LS: crm/lt tan, sing, micro-fn xln, dense, sub-chlky, britl, tr-nvp, fw Chrt: wht/gry, foss, shrp, no odr/ns.

LS: lt tan, sing, micro-fn xln, dense, sub-chlky, britl, tr-nvp, svrl SH: gry/grn, soft, fw fissile, no odr/ns.

SH: gry/grn/drk brn, silty, soft, sm fissile.

LS: lt tan, sing, dense, sub-chlky in prt, micro-fn xln, tr-nvp, svrl CHrt: wht/lt tan, fw foss, sharp, tr-ppt por in fw, no odr/ns.

LS: lt tan/lt gry, fn xln, sub-chlky in prt, sm firm, tr-nvp, no odr/ns.

Much of the same dense, hard LS, fw SH: gry/blu, soft, no odr/ns.

SH: blk, silty, carb, fw fissile, sm gry/blu/grn, soft.

SH: gry/blu/grn, soft, sm fissile.

LS: lt tan, sing, micro-fn xln, sub-chlky, mostly dense, tr-nvp, fw pcs pur chl, no odr/ns.

LS: lt tan/lt gry, fn xln, mostly dense, tr-nvp, svrl SH: gry, soft, no odr/ns.

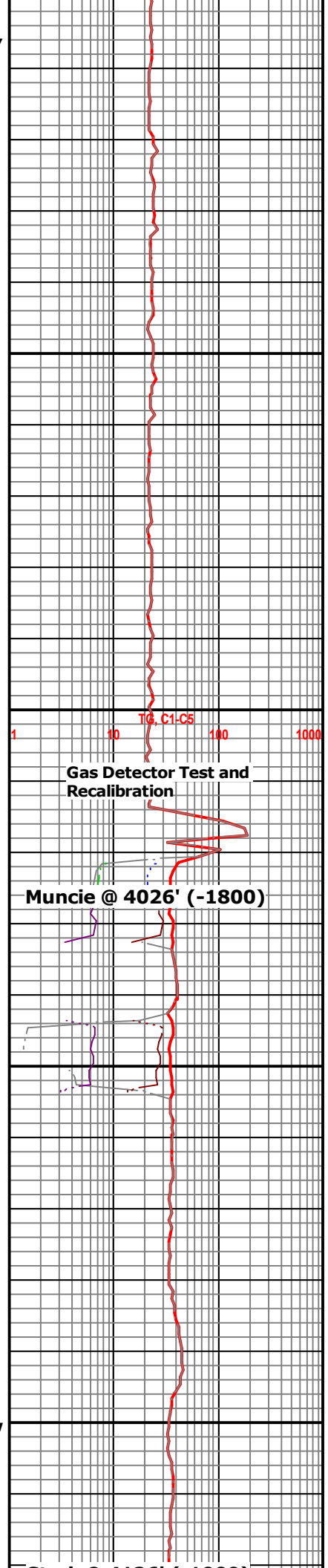
LS: tan/lt tan, slight mott, many v ool, sm hrd, tr-pr intool por in v fw, svrl pcs pur chl, no odr/ns.

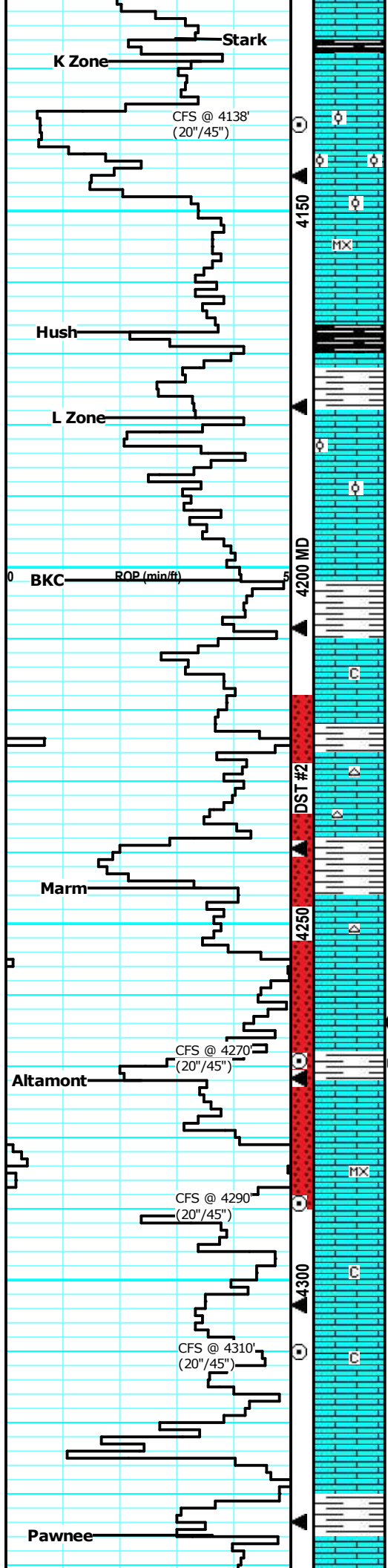
LS: tan/lt tan, sing, fn xln, dense, sub-chlky, tr-nvp, fw pcs pur chl, no odr/ns.

LS: tan/lt tan, sm profus ool/foss, mostly dense, sm hard, fw pcs oolcast & britl, gd oolcast por in svrl pcs, no odr/ns. No stns present in dry smpl.

LS: gry/tan, slight mott, mostly dense/hrd, nvp, fw pcs v ool most likely frm abov, sm SH: gry/blu, soft, waxy, no odr/ns.

LS: gry/tan, mott, mostly dense/hrd, tr-nvp, sm SH: soft, no odr/ns.





SH: blk, carb, fissile.

LS: tan, fn xln, sub-chlky in prt, sm flakey/mealy, tr-nvp, no odr/ns.

LS: tan/lt tan, sing, fn xln, sm v ool, britl, sm pr intool por, sm vuggy oolcast por, chlky, no odr/ns.

LS: lt tan, sing, micro-fn xln, dense, chlky, tr-nvp, svrl pcs pur chlky, no odr/ns.

LS: tan, slght mott, fn xln, mostly dense, sub-chlky in prt, fw flakey/mealy, tr-nvp, no odr/ns.

LS: gry/tan, mott, fn xln, sm ool, mostly dense, sm hrd, tr-nvp, fw SH: blk, carb, no odr/ns.

LS: gry/tan, mott, fn xln, foss/ool, many firm, sm flakey/mealy, tr-nvp, no odr/ns.

LS: tan, slght mott, fn xln, mostly dense, sub-chlky in prt, fw flakey, tr-nvp, fw pcs pur chlky, no odr/ns.

LS: gry/tan, mott in prt, fn xln, dense/hrd, flakey, tr-nvp, lrg amt SH: gry/brn, soft, no odr/ns.

LS: lt tan/lt gry, fn xln, sub-chlky, britl, tr-nvp, no odr/ns.

Much of the same dense LS, tr-nvp, no odr/ns.

LS: gry/tan, slght mott, fn xln, sub-chlky in prt, tr-nvp, fw Chrt: wht/opaq, sharp, no odr/ns.

LS: gry/tan, fn xln, dense, tr-nvp, fw Chrt: gry, sharp, infx SH: drk gry, fissile, no odr/ns.

LS: tan, fn xln, chlky/britl, 3 pcs w/ patch brn stns, wk fluor, strm cut, ssfo on brk, wk cup odr.

60min smpl: much of the same, 2 pcs w/ sho, and 2 pcs w/ drk dead oil w/ not fo or cut resid, fnt-? cup odr.

LS: tan/gry, mott, fn xln, flakey/mealy, many firm, tr-nvp, svrl SH: gry/blu, no odr/ns.

LS: crm/lt tan, sing, micro-fn xln, dense, sub-chlky, britl, tr-nvp, no odr/ns.

LS: tan/lt tan, fn xln, dense, many hrd, tr-nvp, abund SH: gry/grn/brn, soft, no odr/ns.

LS: tan/lt gry, fn xln, dense/hrd, fw flakey/mealy, tr-nvp, no odr/ns.

LS: lt tan, fn xln, sub-chlky in prt, many hrd, flakey, tr-nvp, fw pcs pur chlky, no odr/ns.

LS: tan, fn xln, hard, sm flakey/mealy, tr-nvp, no sho, pos hnt of odr, 2 smpl trys wet/dry, no sfo, no stning.

LS: crm/lt tan, sing, micro-fn xln, britl, chlky, tr-nvp, fw SH: gry, soft, fissile, no odr/ns.

Stark @ 4126' (-1900)

Shale Kick

Hushpuckney @ 4167' (-1941)

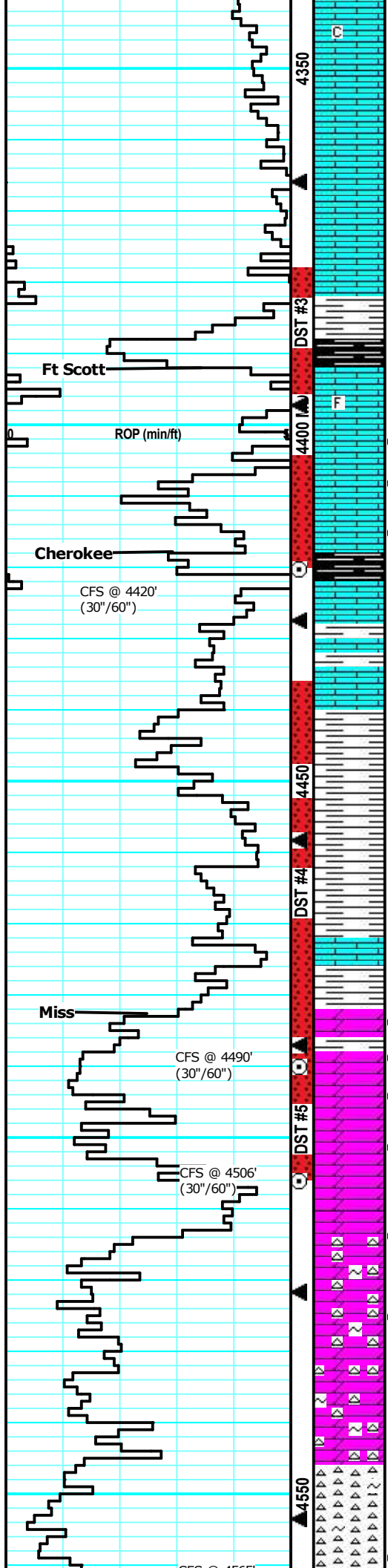
BKC @ 4202' (1976)

DST #2: 4218'-4290'  
Marmaton 10-24-23  
IF: Wk blw blt to .52" (No BB)  
FF: No blw (No BB)  
Hyd = 2139-1999#  
IFP = 35-58# ISIP: 71#  
FFP = 52-73# FSIP: 93#  
Rec: 3' OSM

Marmaton @ 4245' (-2019)

Altamont @ 4272' (-2046)

Pawnee @ 4336' (-2110)



LS: lt tan, sing, fn xln, brity, chlky in prt, tr-nvp, no odr/ns.

LS: tan/lt brn, sing, fn xln, dense, hard, tr-nvp, no odr/ns.

Much of the same, fw SH:; gry/blu, fissile, no odr/ns.

LS: tan/gry/drk gry, mott, sm v hrd, dense, masiv, tr-nvp, fw SH: gry, fissile, med crush, no odr/ns.

LS: tan/lt brn, fn xln, dense, hrd, tr-nvp, svrl SH: gry/drk gry, silty, sm fissile, no odr/ns.

SH: blk, silty, soft, carb.

LS: tan/lt brn, fn xln, dense, hrd, fw foss, tr-nvp, abund SH: blk, carb, no odr/ns.

LS: tan, fn xln, semi-hrd, fr-gd intxln por, sm scat vugs, spttd brn stns in por, fr sfo on brk w/ fizz gas bubls, gd fluor/strm cut, gd cup odr.

LS: tan, fn xln, fr intxln por, lght brn stns in por, fr sfo on brk, fr cup odr, gd fluor/strm cut.

LS: gry/tan, fn xln, mostly dense, hrd, tr-nvp, svrl SH: drk gry/blk, silty, sm carb, no odr/ns.

LS: lt gry/lt tan, sing, fn xln, fw foss, sub-chlky in prt, britl, tr-nvp, no odr/ns.

LS: lt gry/lt tan, fn xln, mostly dense, tr-nvp, abund SH: gry/brn, silty, soft, no odr/ns.

SH: gry/brn/red/yel, sm soft, sm withrd, svrl LS: gry/tan, mott, fn xln, tr-nvp, no odr/ns.

Much of the same withrd SH, sm SS: grn/gry, sandy/gritty, glauc, hrd, tr-nvp, sm SltStn: lt brn, gritty, soft, no odr/ns.

DOL: tan, fn xln, sm sucr in prt, fr-gd intxln por w/ sm scat vug, evn brn stns in por, gld fluor w/ strm cut, gd sfo on brk w/ sm l gas bubls in svrl pcs, gd cup odr.

DOL: tan, fn xln, mostly dense, sm fr intxln por w/ lrg scat vug, sat stns in por, gd fluor/strm cut, gd sfo on brk, svrl pcs pur try, fr cup odr, fw pcs w/ drk dead oil

DOL: tan, fn xln, gd intxln por, fr scat vuggy por, even stns, gd fluor/strm cut, gd cup odr, fw pcs w/ oil clng to rx chp, gd sfo on brk.

SH: gry/brn/grn/yel, sm withrd, fw DOL: tan, fn xln, sm dense, fw w/ fr intxln por w/ scat vugs, lght brn stns, gd fluor/cut, slight cup odr.

DOL: tan, fn xln, dense, firm, tr-nvp, fw w/ por-fr intxln por, lght brn stns, pos from above, infx Chrt: wht, fresh, sharp, wk cup odr.

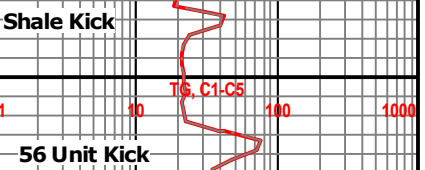
DOL: tan, fn xln, glauc, pr-fr intxln por in sm, lght brn stns, gd fluor/cut, ssfo on brk, incrs amt Chrt: wht, sharp, pr intxln por, patchy brn stns, gd fluor/cut, fr cup odr.

Chrt: wht, frsh, shrp, fw pcs w/ pr ppt intxln por, patchy brn stns, gd fluor/cut, gd cup odr, fw DOL: as above.

Chrt: wht. frsh. sharp. patchy stns. and gd odr as

DST #3: 4378'-4420' Ft Scott  
10-25-23  
IF: Wk blw blt to .39" (No BB)  
FF: Wk blw blt to .63" (No BB)  
Hyd = 2201-2134#  
IFP = 23-26# ISIP: 101#  
FFP = 22-25# FSIP: 76#  
Rec: 10' OSM

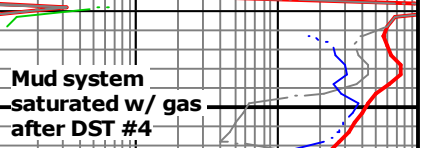
Ft Scott @ 4392' (-2166)



Cherokee @ 4418' (-2192)

DST #4: 4436'-4490' Miss  
10-26-23  
IF: Wk blw blt to .55" (No BB)  
FF: No blw (No BB)  
Hyd = 2233-2139#  
IFP = 27-36# ISIP: 1194#  
FFP = 41-49# FSIP: 964#  
Rec: 60' GOWCM

Mississippi @ 4483' (-2257)



DST #5: 4489'-4506' Miss  
10-26-23  
IF: Strg blw blt to 32" (3" BB)  
FF: Strg blw blt to 34.5" (.5" BB)  
Hyd = 2244-2205#  
IFP = 38-127# ISIP: 1403#  
FFP = 139-232# FSIP: 1379#  
Rec: 1008' GIP, 378' Oil, 63' GWCO, 180' GWMCO



CFS @ 4565'  
(30"/60")



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desc above.

RTD = 4565' (-2339)  
LTD = 4564' (-2338)

