

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](mailto: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>

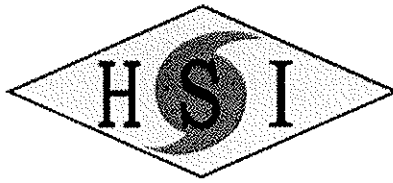
TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	FOUR BOYS 2-28
Doc ID	1638421

Tops

Name	Top	Datum
Anhydrite	3152	260
Topeka	4040	-628
Heebner	4232	-820
Lansing	4282	-870
Muncie Creek	4406	-994
Stark Shale	4486	-1074
B/KC	4558	-1146
Marmaton	4576	-1164
Pawnee	4666	-1254
Fort Scott	4720	-1308
Cherokee	4748	-1336
Mississippi	4970	-1558





**HURRICANE SERVICES INC**

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

Customer:  
CARMEN SCHMITT INC  
PO BOX 47  
GREAT BEND, KS 67530-0047

Invoice Date: 4/18/2022  
Invoice #: 0360153  
Lease Name: Four Boys  
Well #: 2-28 (New)  
County: Cheyenne, Ks  
Job Number: WP2693  
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Depth Charge 0'-500'	1.000	920.000	920.00
Heavy Eq Mileage	95.000	4.000	380.00
Light Eq Mileage	95.000	2.000	190.00
Ton Mileage	1,410.750	1.500	2,116.13
Cement Blending & Mixing	300.000	1.288	386.40
Service Supervisor	1.000	253.000	253.00
H-325	300.000	20.700	6,210.00

710/43  
197600.0228  
Well Rte  
Surface Cement.

**Total** 10,455.53

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**



<b>Customer</b>	Carmen Schmitt		<b>Lease &amp; Well #</b>	Four Boys # 2-28		<b>Date</b>	4/18/2022	
<b>Service District</b>	Oakley KS		<b>County &amp; State</b>	Cheyenne KS		<b>Legals S/T/R</b>	28-4S-37W	
<b>Job Type</b>	Surface	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	<b>Legals S/T/R</b>	<b>New Well?</b>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> No
<b>Equipment #</b>	<b>Driver</b>	<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b>						
73	Josh	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Lockout/Tagout	<input checked="" type="checkbox"/> Warning Signs & Flagging			
180/520	Jimmie	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input checked="" type="checkbox"/> Required Permits	<input checked="" type="checkbox"/> Fall Protection			
165/530	Christain	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations			
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations			
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below				
<b>Comments</b>								

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
D010	Depth Charge: 0'-500'	job	1.00	\$920.00
M010	Heavy Equipment Mileage	mi	95.00	\$380.00
M015	Light Equipment Mileage	mi	95.00	\$190.00
M020	Ton Mileage	tm	1,410.75	\$2,116.13
C060	Cement Blending & Mixing Service	sack	300.00	\$386.40
R061	Service Supervisor	day	1.00	\$253.00
CP015	H-325	sack	300.00	\$6,210.00

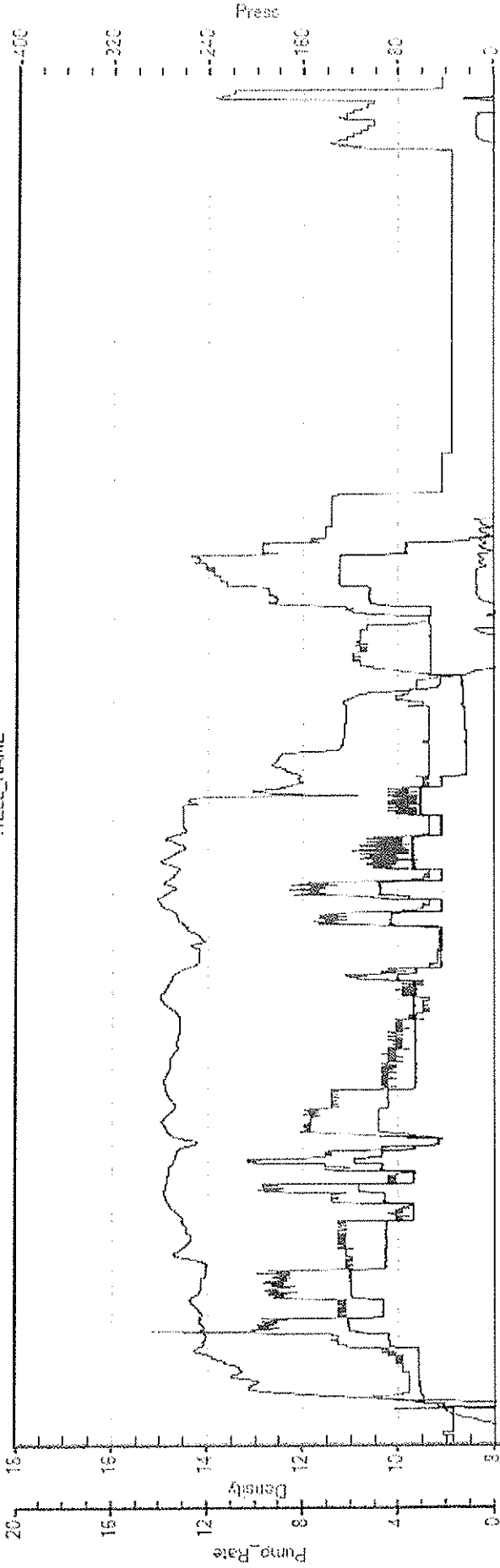
<b>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</b>		<b>Net:</b>	\$10,455.53
Based on this job, how likely is it you would recommend HSI to a colleague?		<b>Total Taxable</b>	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		<b>Tax Rate:</b>	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely		<b>Sale Tax:</b>	\$ -
		<b>Total:</b>	\$ 10,455.53
		<b>HSI Representative:</b> <i>Josh Master</i>	

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X \_\_\_\_\_ **CUSTOMER AUTHORIZATION SIGNATURE**



Carmen Schmitt  
WELL\_NAME



---CEMENT 14.8 PPG 5.7  
 ---H2O AHEAD 11.4  
 ---SHUT IN PLUG DOWN 39.9  
 ---DISPLACE H2O 34.2  
 Job Started On: 04/19/2022 @ 1:13:36 AM





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Four Boys #2-28**

### **28-4S-37W Cheyenne, KS**

Start Date: 2022.04.23 @ 11:40:00

End Date: 2022.04.23 @ 17:39:15

Job Ticket #: 68751                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.05.03 @ 11:26:24

Carmen Schmitt Inc

28-4S-37W Cheyenne, KS

Four Boys #2-28

DST # 1

Toronto - LKC C

2022.04.23



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

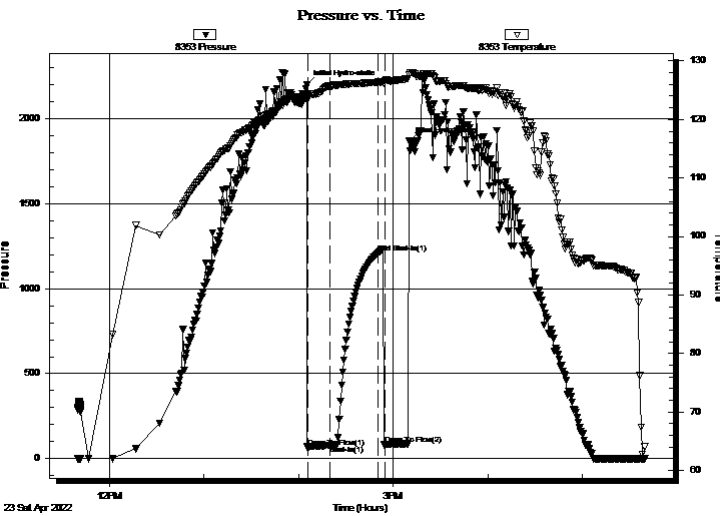
**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68751      **DST#: 1**  
Test Start: 2022.04.23 @ 11:40:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC C**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 14:05:45  
Time Test Ended: 17:39:15  
Interval: **4232.00 ft (KB) To 4350.00 ft (KB) (TVD)**  
Total Depth: 4350.00 ft (KB) (TVD)  
Hole Diameter: 7.87 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Nathan Aneas  
Unit No: 71  
Reference Elevations: 3412.00 ft (KB)  
3407.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8353      Inside**  
Press@RunDepth: 78.03 psig @ 4233.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.04.23      End Date: 2022.04.23      Last Calib.: 2022.04.23  
Start Time: 11:40:01      End Time: 17:39:15      Time On Btm: 2022.04.23 @ 14:05:15  
Time Off Btm: 2022.04.23 @ 15:10:00

**TEST COMMENT:** 15:IF- Weak surface blow , built to 1/4 inch in 5 min, final blow is 3/4 inch  
30:IS- No blow back  
10:FF- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.03	123.82	Initial Hydro-static
1	69.70	123.77	Open To Flow (1)
15	78.03	125.74	Shut-In(1)
45	1208.09	126.38	End Shut-In(1)
50	81.92	126.53	Open To Flow (2)
65	1867.48	127.63	Final Hydro-static

## Recovery

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

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68751      **DST#: 1**  
Test Start: 2022.04.23 @ 11:40:00

**Tool Information**

Drill Pipe:	Length: 4046.00 ft	Diameter: 3.80 inches	Volume: 56.75 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:            ft	Diameter:            inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	86000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4232.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	118.00 ft				
Tool Length:	150.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Did not start coming out of the hole for short trip until 3:30 AM due to the weather, Driller was supposed to call me never did. I got to the rig at 1:30 AM and they were supposed to be on the bank at 3:30 AM

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4205.00	
Hydraulic tool	5.00			4210.00	
Jars	5.00			4215.00	
EM Tool	4.00			4219.00	
Safety Joint	3.00			4222.00	
Packer	5.00			4227.00	32.00      Bottom Of Top Packer
Packer	5.00			4232.00	
Stubb	1.00			4233.00	
Recorder	0.00	8353	Inside	4233.00	
Recorder	0.00	8676	Outside	4233.00	
Change Over Sub	1.00			4234.00	
Blank Spacing	94.00			4328.00	
Change Over Sub	1.00			4329.00	
Perforations	18.00			4347.00	
Bullnose	3.00			4350.00	118.00      Bottom Packers & Anchor

**Total Tool Length: 150.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68751      **DST#: 1**  
Test Start: 2022.04.23 @ 11:40:00

### 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: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

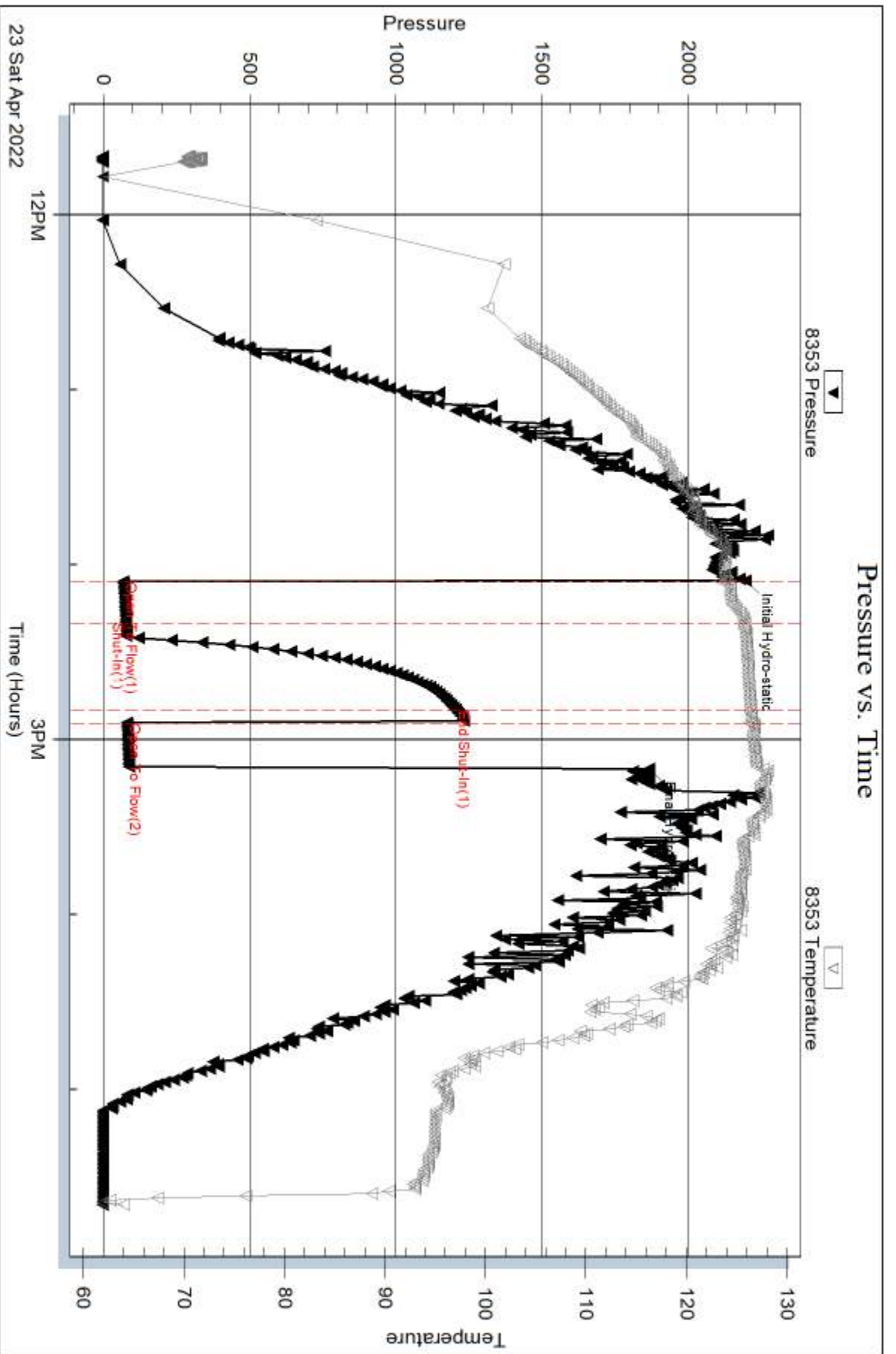
Length ft	Description	Volume bbl
10.00	Mud 100%M	0.049

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:

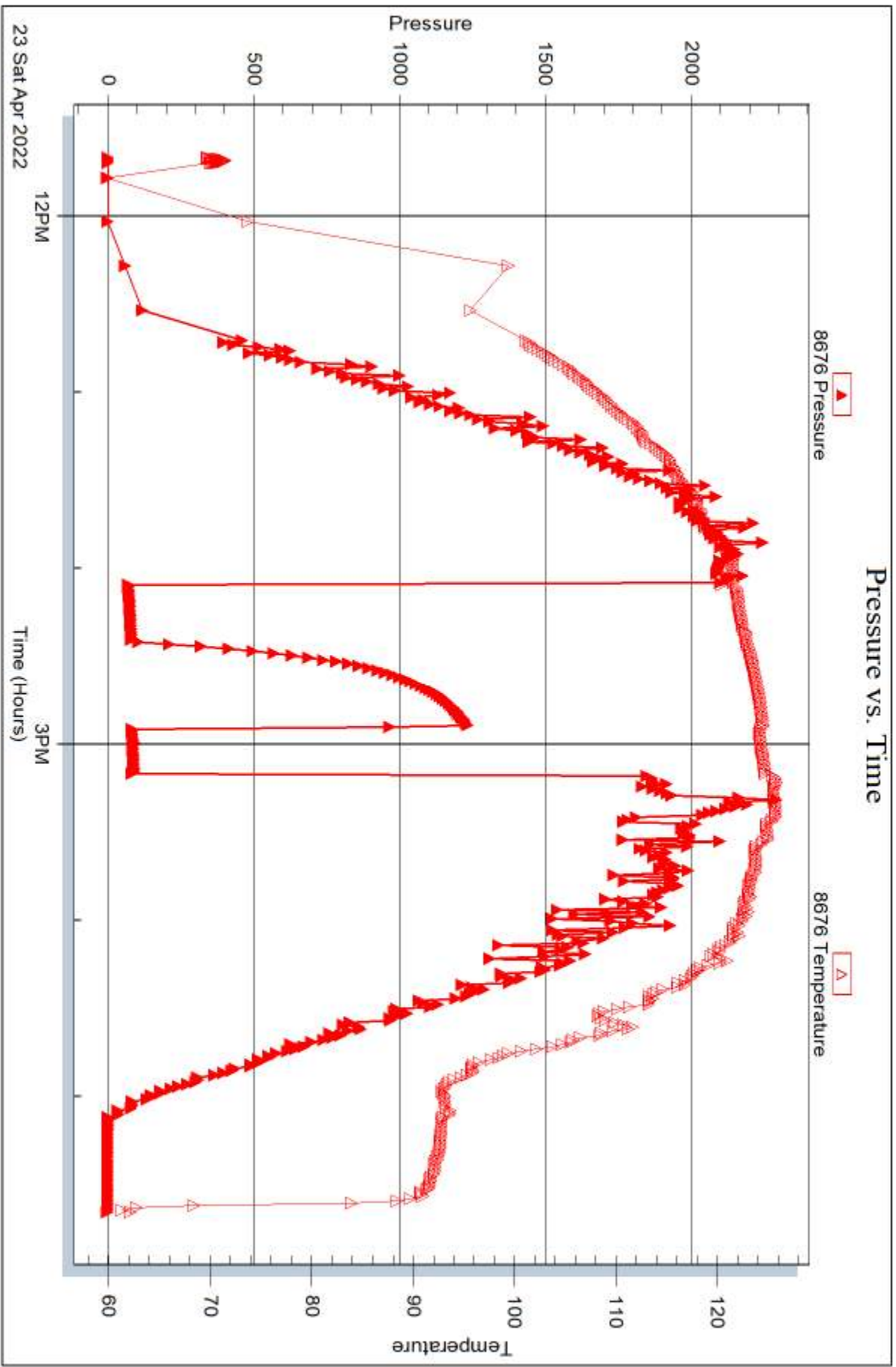


Serial #: 8676

Outside Carmen Schnitt Inc

Four Boys #2-28

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68751

Printed: 2022.05.03 @ 11:26:26



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Four Boys #2-28**

### **28-4S-37W Cheyenne, KS**

Start Date: 2022.04.24 @ 18:40:00

End Date: 2022.04.25 @ 01:02:00

Job Ticket #: 68752                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.05.03 @ 11:25:08

Carmen Schmitt Inc  
28-4S-37W Cheyenne, KS  
Four Boys #2-28  
DST # 2  
LKC H - J  
2022.04.24





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68752      **DST#: 2**  
Test Start: 2022.04.24 @ 18:40:00

## GENERAL INFORMATION:

Formation: **LKC H - J**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:38:15  
Time Test Ended: 01:02:00  
Interval: **4403.00 ft (KB) To 4490.00 ft (KB) (TVD)**  
Total Depth: 4490.00 ft (KB) (TVD)  
Hole Diameter: 7.87 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Nathan Aneas  
Unit No: 71  
Reference Elevations: 3412.00 ft (KB)  
3407.00 ft (CF)  
KB to GR/CF: 5.00 ft

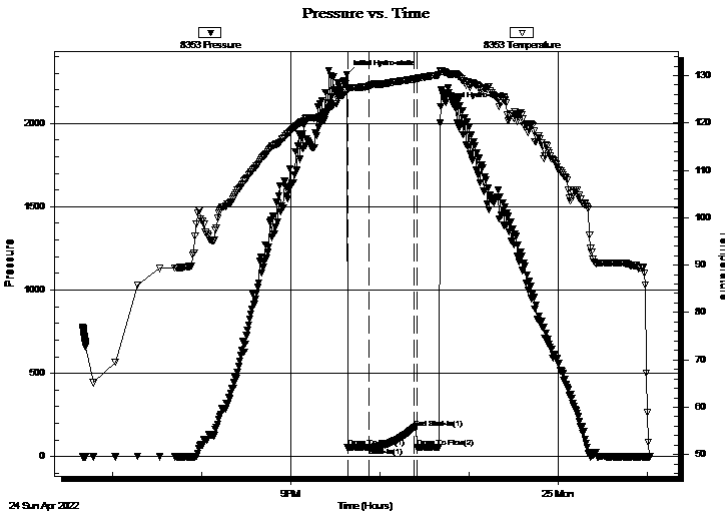
## Serial #: 8353

Inside

Press@RunDepth: 55.98 psig @ 4404.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.04.24 End Date: 2022.04.25 Last Calib.: 2022.04.25  
Start Time: 18:40:01 End Time: 01:02:00 Time On Btm: 2022.04.24 @ 21:37:45  
Time Off Btm: 2022.04.24 @ 22:41:00

TEST COMMENT: 15:IF- Weak surface blow , built to 1/4 inch in 5 min, final blow is 1/2 inch  
30:IS- No blow back  
10:FF- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2293.77	127.36	Initial Hydro-static
1	53.76	127.22	Open To Flow (1)
16	55.98	127.82	Shut-In(1)
46	172.03	129.26	End Shut-In(1)
48	56.18	129.37	Open To Flow (2)
64	2099.56	130.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68752      **DST#: 2**  
Test Start: 2022.04.24 @ 18:40:00

**Tool Information**

Drill Pipe:	Length: 4203.00 ft	Diameter: 3.80 inches	Volume: 58.96 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4403.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	119.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			4376.00	
Hydraulic tool	5.00			4381.00	
Jars	5.00			4386.00	
EM Tool	4.00			4390.00	
Safety Joint	3.00			4393.00	
Packer	5.00			4398.00	32.00      Bottom Of Top Packer
Packer	5.00			4403.00	
Stubb	1.00			4404.00	
Recorder	0.00	8353	Inside	4404.00	
Recorder	0.00	8676	Outside	4404.00	
Change Over Sub	1.00			4405.00	
Blank Spacing	63.00			4468.00	
Change Over Sub	1.00			4469.00	
Perforations	18.00			4487.00	
Bullnose	3.00			4490.00	87.00      Bottom Packers & Anchor

**Total Tool Length: 119.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68752      **DST#: 2**  
Test Start: 2022.04.24 @ 18:40:00

## Mud and Cushion Information

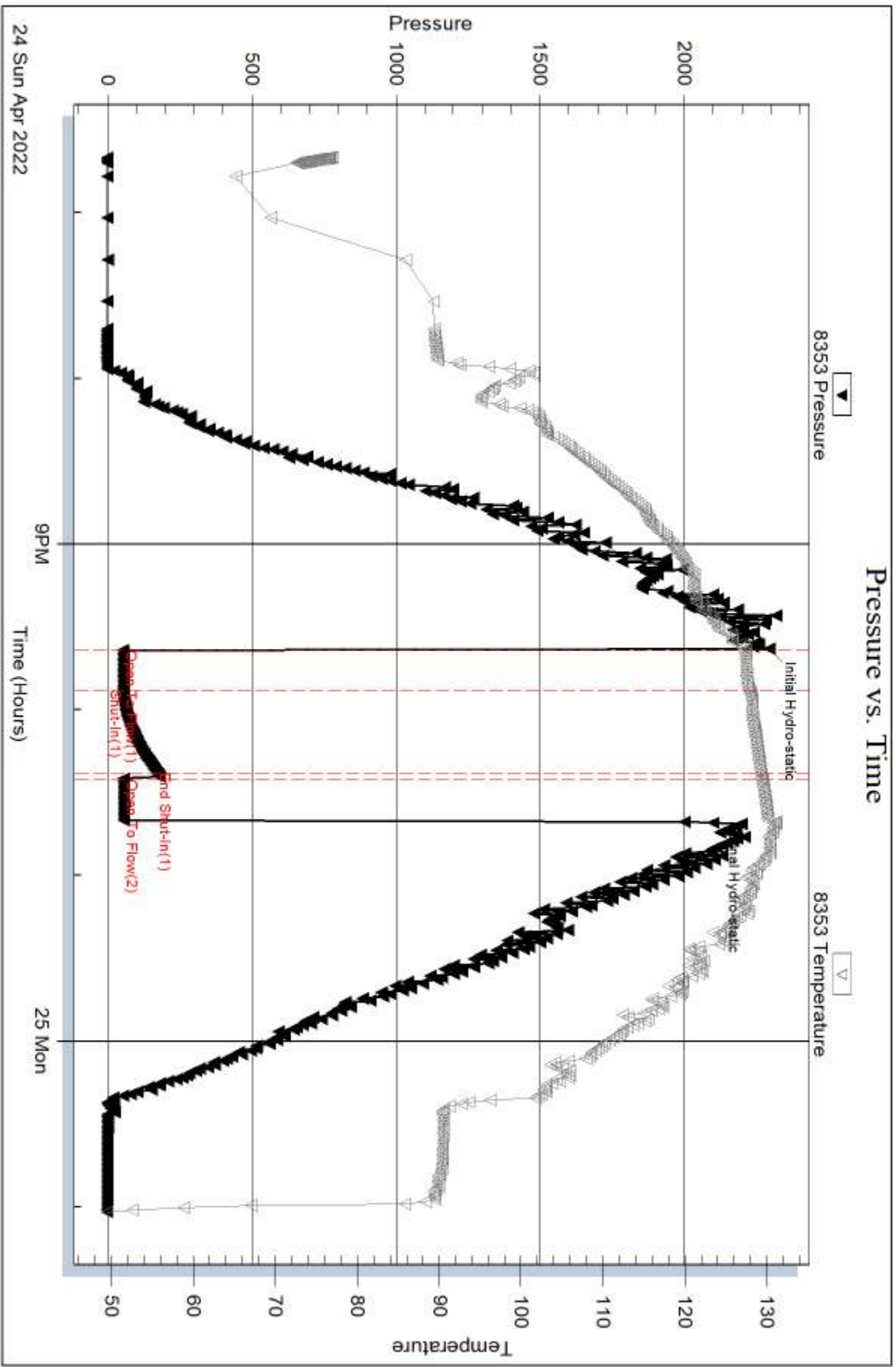
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

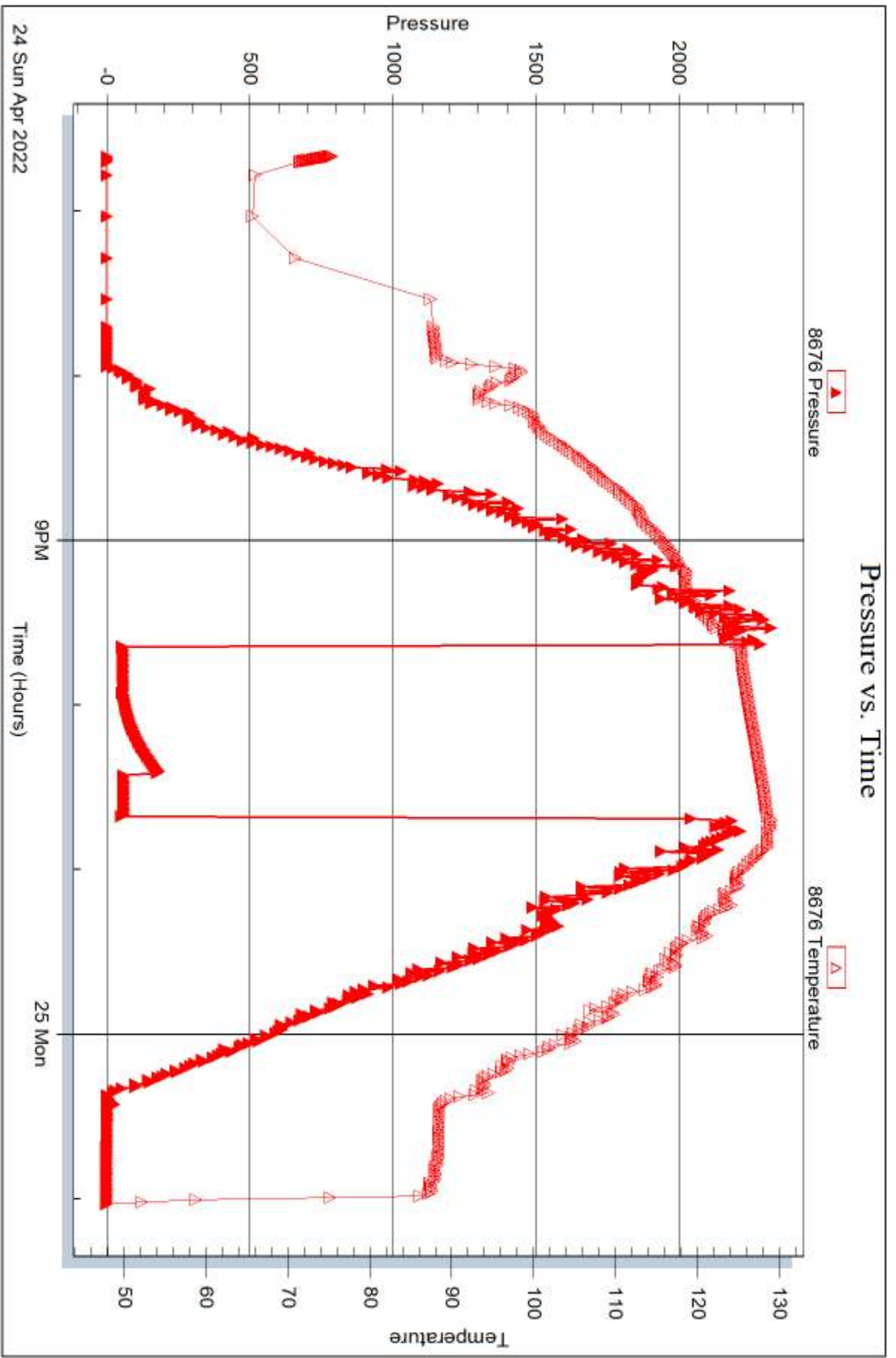


Serial #: 8676

Outside Carmen Schmitt Inc

Four Boys #2-28

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68752

Printed: 2022.05.03 @ 11:25:09



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend,KS 67530

ATTN: Brad Rine

### **Four Boys #2-28**

### **28-4S-37W Cheyenne,KS**

Start Date: 2022.04.26 @ 04:50:00

End Date: 2022.04.26 @ 10:21:30

Job Ticket #: 68753                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.05.03 @ 11:24:05



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

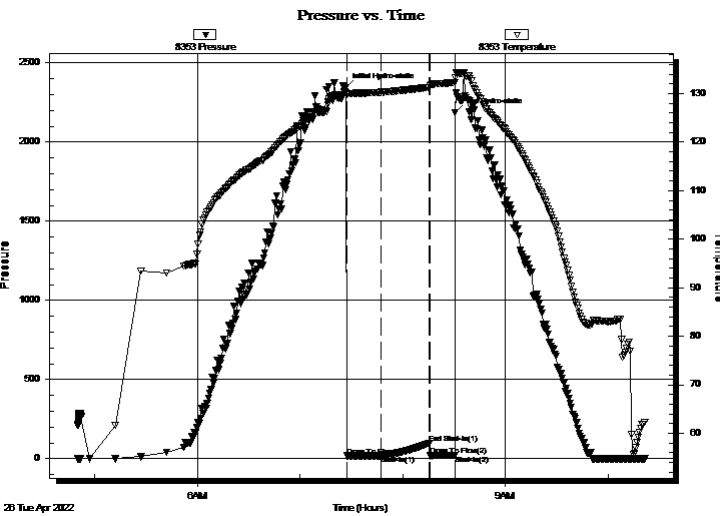
**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68753      **DST#: 3**  
Test Start: 2022.04.26 @ 04:50:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
Deviated: No Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 07:27:30      Tester: Nathan Aneas  
Time Test Ended: 10:21:30      Unit No: 71  
**Interval: 4652.00 ft (KB) To 4692.00 ft (KB) (TVD)**      Reference Elevations: 3412.00 ft (KB)  
Total Depth: 4692.00 ft (KB) (TVD)      3407.00 ft (CF)  
Hole Diameter: 7.87 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8353      Inside**  
Press@RunDepth: 18.83 psig @ 4653.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.04.26      End Date: 2022.04.26      Last Calib.: 2022.04.26  
Start Time: 04:50:01      End Time: 10:21:30      Time On Btm: 2022.04.26 @ 07:26:45  
Time Off Btm: 2022.04.26 @ 08:30:45

**TEST COMMENT:** 15:IF- Weak surface blow , built to 1/4 inch in 5 min, final blow is 3/4 inch  
30:IS- No blow back  
10:FF- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2342.99	130.23	Initial Hydro-static
1	17.83	129.84	Open To Flow (1)
21	18.83	130.27	Shut-In(1)
49	98.35	131.27	End Shut-In(1)
50	19.02	131.55	Open To Flow (2)
64	21.13	132.28	Shut-In(2)
64	2186.68	133.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M Spots of oil in tool	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

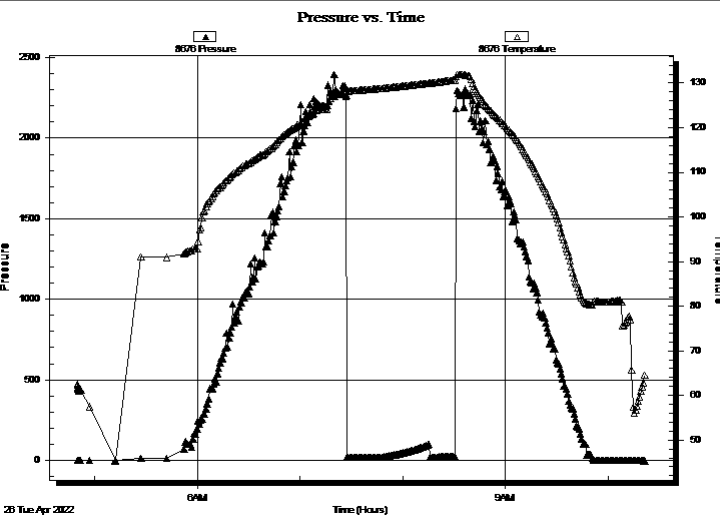
**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68753      **DST#: 3**  
Test Start: 2022.04.26 @ 04:50:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
Deviated: No Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 07:27:30      Tester: Nathan Aneas  
Time Test Ended: 10:21:30      Unit No: 71  
**Interval: 4652.00 ft (KB) To 4692.00 ft (KB) (TVD)**      Reference Elevations: 3412.00 ft (KB)  
Total Depth: 4692.00 ft (KB) (TVD)      3407.00 ft (CF)  
Hole Diameter: 7.87 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8676      Outside**  
Press@RunDepth:                      psig @ 4653.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.04.26      End Date: 2022.04.26      Last Calib.: 2022.04.26  
Start Time: 04:50:01      End Time: 10:21:45      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 15:IF- Weak surface blow , built to 1/4 inch in 5 min, final blow is 3/4 inch  
30:IS- No blow back  
10:FF- No blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M Spots of oil in tool	0.02

\* Recovery from multiple tests

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68753      **DST#: 3**  
Test Start: 2022.04.26 @ 04:50:00

**Tool Information**

Drill Pipe:	Length: 4455.00 ft	Diameter: 3.80 inches	Volume: 62.49 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	84000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4652.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	72.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			4625.00	
Hydraulic tool	5.00			4630.00	
Jars	5.00			4635.00	
EM Tool	4.00			4639.00	
Safety Joint	3.00			4642.00	
Packer	5.00			4647.00	32.00      Bottom Of Top Packer
Packer	5.00			4652.00	
Stubb	1.00			4653.00	
Recorder	0.00	8353	Inside	4653.00	
Recorder	0.00	8676	Outside	4653.00	
Perforations	36.00			4689.00	
Bullnose	3.00			4692.00	40.00      Bottom Packers & Anchor

**Total Tool Length: 72.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68753      **DST#: 3**  
Test Start: 2022.04.26 @ 04:50:00

## Mud and Cushion Information

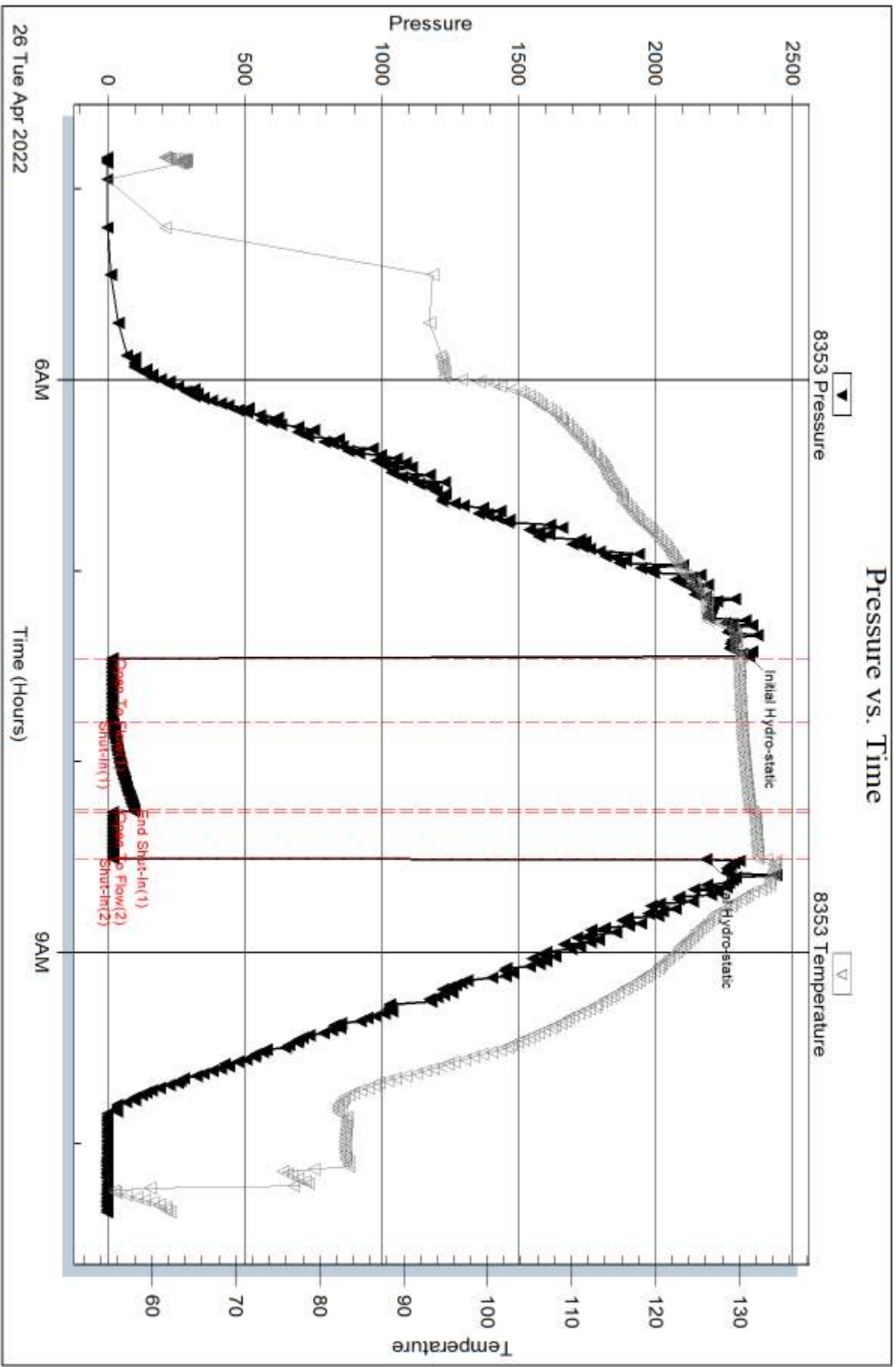
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M Spots of oil in tool	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

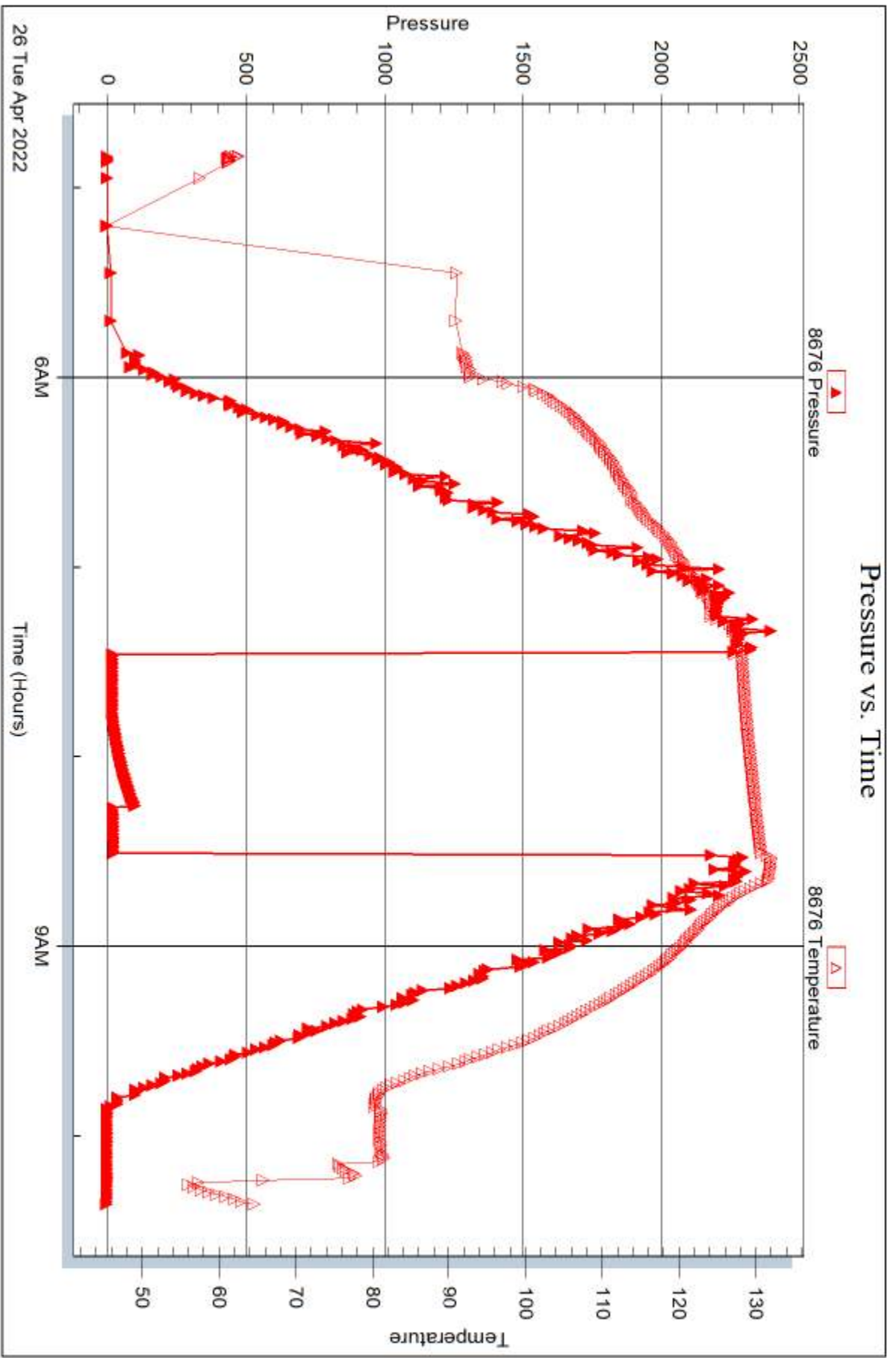


Serial #: 8676

Outside Carmen Schnitt Inc

Four Boys #2-28

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Four Boys #2-28**

### **28-4S-37W Cheyenne, KS**

Start Date: 2022.04.26 @ 18:54:00

End Date: 2022.04.27 @ 01:15:00

Job Ticket #: 68754                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.05.03 @ 11:16:35

Carmen Schmitt Inc

28-4S-37W Cheyenne, KS

Four Boys #2-28

DST # 4

Myrick Station

2022.04.26



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

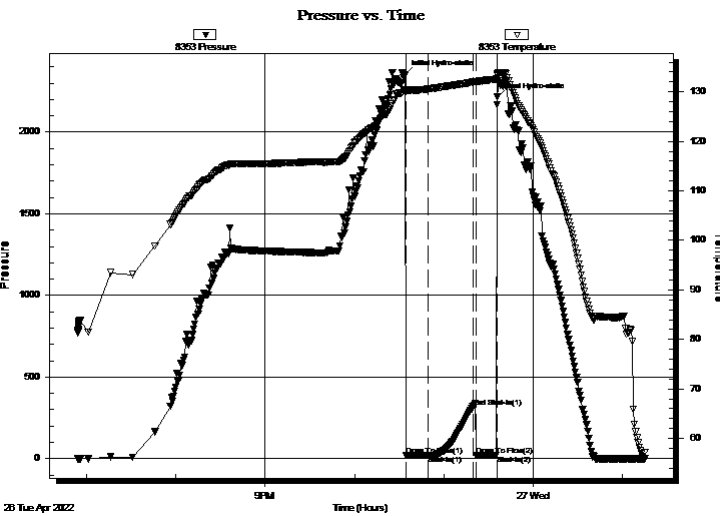
**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68754      **DST#: 4**  
Test Start: 2022.04.26 @ 18:54:00

## GENERAL INFORMATION:

Formation: **Myrick Station**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 22:34:30      Tester: Nathan Aneas  
Time Test Ended: 01:15:00      Unit No: 71  
**Interval: 4681.00 ft (KB) To 4719.00 ft (KB) (TVD)**      Reference Elevations: 3412.00 ft (KB)  
Total Depth: 4719.00 ft (KB) (TVD)      3407.00 ft (CF)  
Hole Diameter: 7.87 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8353      Inside**  
Press@RunDepth: 19.82 psig @ 4682.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.04.26      End Date: 2022.04.27      Last Calib.: 2022.04.27  
Start Time: 18:54:01      End Time: 01:15:00      Time On Btm: 2022.04.26 @ 22:33:45  
Time Off Btm: 2022.04.26 @ 23:35:45

**TEST COMMENT:** 15:IF- Weak surface blow , built to 1/4 inch in 5 min, final blow is 3/4 inch  
30:IS- No blow back  
10:FF- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2350.34	130.49	Initial Hydro-static
1	18.61	130.26	Open To Flow (1)
16	19.82	130.57	Shut-In(1)
46	317.08	131.97	End Shut-In(1)
49	20.50	132.03	Open To Flow (2)
62	20.39	132.57	Shut-In(2)
62	2214.17	133.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68754      **DST#: 4**  
Test Start: 2022.04.26 @ 18:54:00

**Tool Information**

Drill Pipe:	Length: 4487.00 ft	Diameter: 3.80 inches	Volume: 62.94 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	86000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4681.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	70.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			4654.00	
Hydraulic tool	5.00			4659.00	
Jars	5.00			4664.00	
EM Tool	4.00			4668.00	
Safety Joint	3.00			4671.00	
Packer	5.00			4676.00	32.00      Bottom Of Top Packer
Packer	5.00			4681.00	
Stubb	1.00			4682.00	
Recorder	0.00	8353	Inside	4682.00	
Recorder	0.00	8676	Outside	4682.00	
Perforations	34.00			4716.00	
Bullnose	3.00			4719.00	38.00      Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc

**28-4S-37W Cheyenne,KS**

PO Box 47  
Great Bend,KS 67530

**Four Boys #2-28**

Job Ticket: 68754

**DST#: 4**

ATTN: Brad Rine

Test Start: 2022.04.26 @ 18:54:00

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

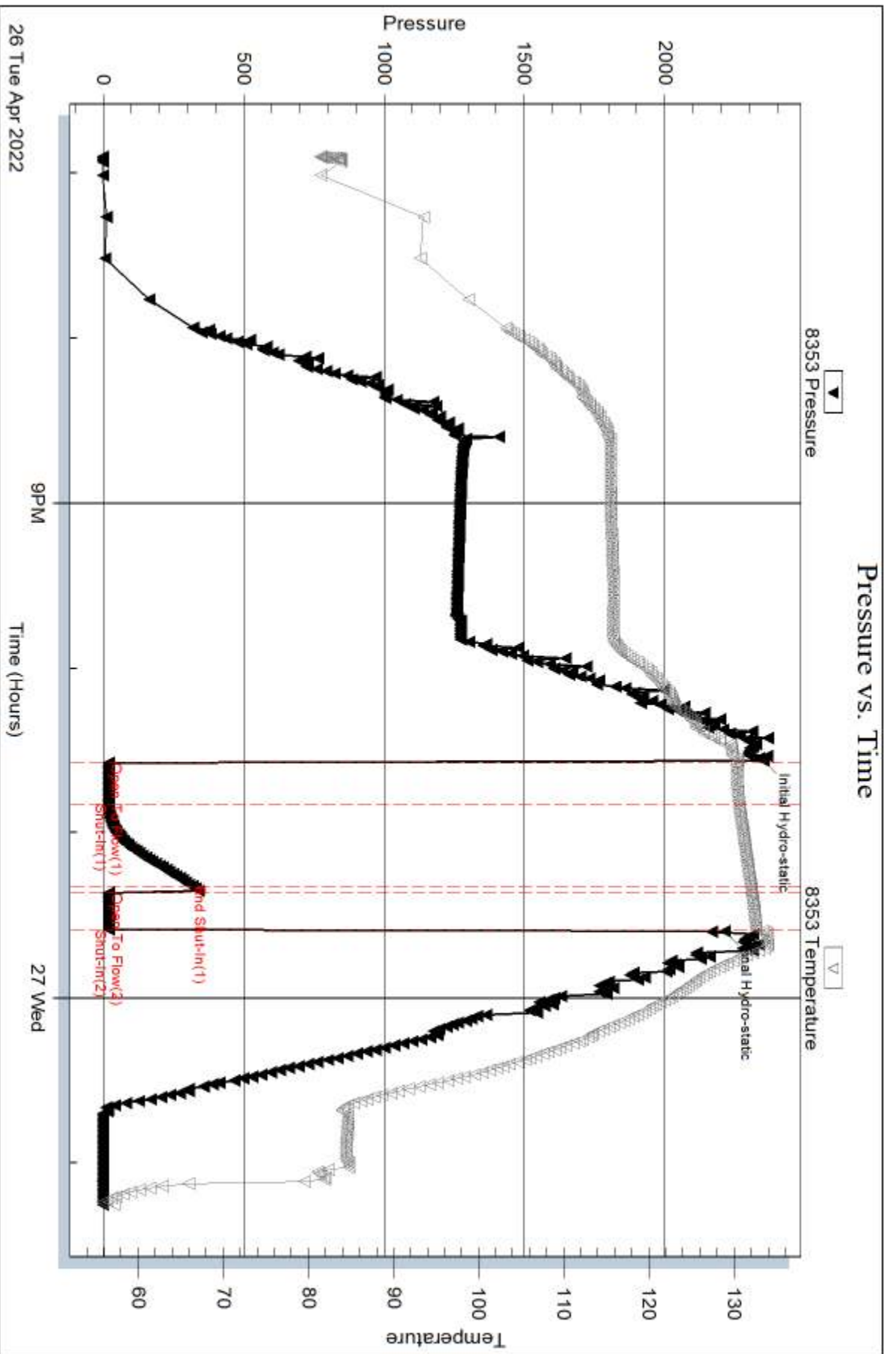
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

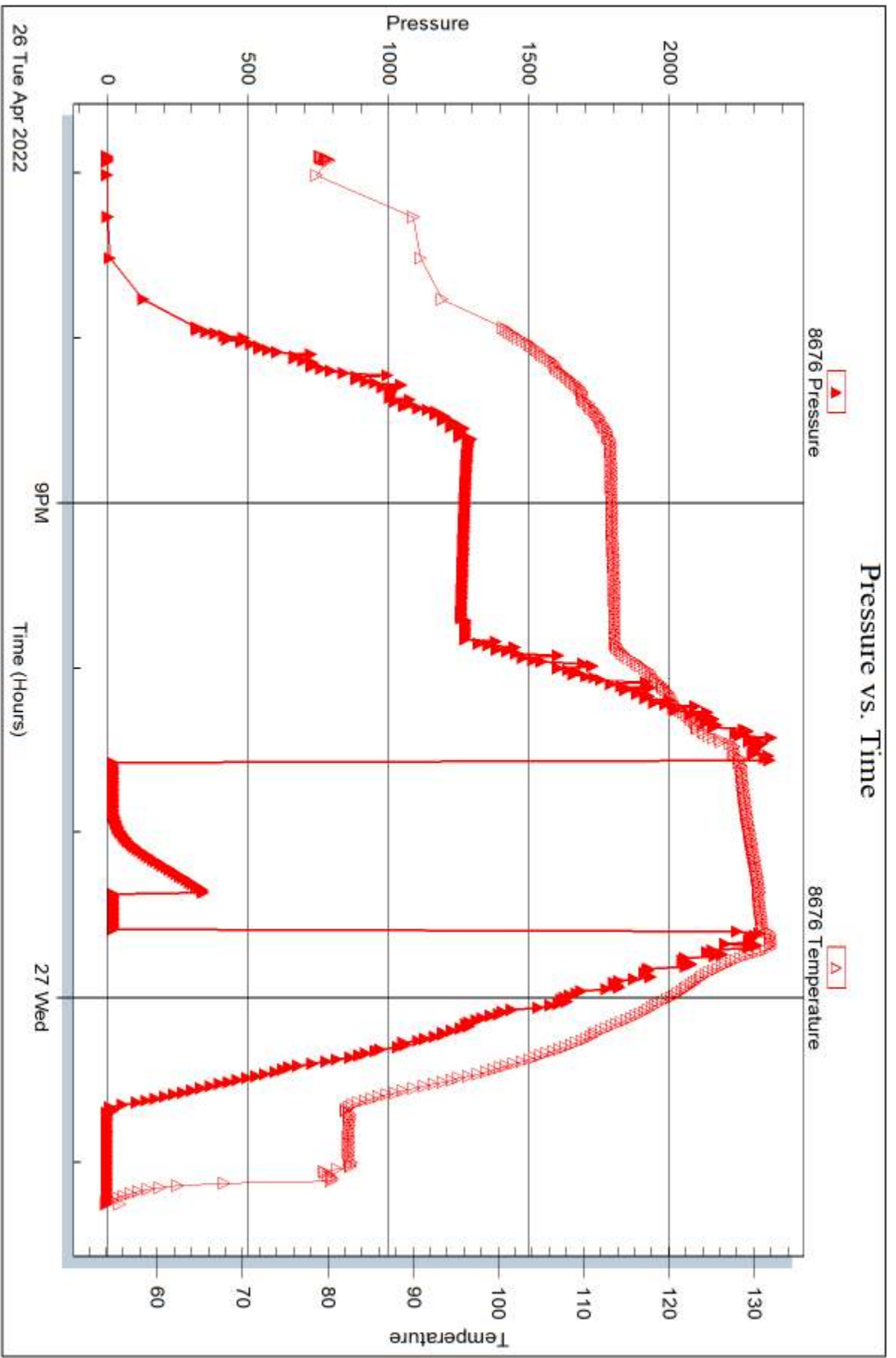


Serial #: 8676

Outside Carmen Schnitt Inc

Four Boys #2-28

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 68754

Printed: 2022.05.03 @ 11:16:37



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Four Boys #2-28**

### **28-4S-37W Cheyenne, KS**

Start Date: 2022.04.28 @ 14:10:00

End Date: 2022.04.28 @ 21:39:30

Job Ticket #: 68755                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.05.03 @ 11:13:53

Carmen Schmitt Inc

28-4S-37W Cheyenne, KS

Four Boys #2-28

DST # 5

Cherokee SD

2022.04.28







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

**28-4S-37W Cheyenne, KS**  
**Four Boys #2-28**  
Job Ticket: 68755 **DST#: 5**  
Test Start: 2022.04.28 @ 14:10:00

## Tool Information

Drill Pipe:	Length: 4579.00 ft	Diameter: 3.80 inches	Volume: 64.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4767.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	5039.00 ft			
Interval between Packers:	272.00 ft			
Tool Length:	304.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4740.00	
Hydraulic tool	5.00			4745.00	
Jars	5.00			4750.00	
EM Tool	4.00			4754.00	
Safety Joint	3.00			4757.00	
Packer	5.00			4762.00	32.00 Bottom Of Top Packer
Packer	5.00			4767.00	
Stubb	1.00			4768.00	
Change Over Sub	1.00			4769.00	
Blank Spacing	63.00			4832.00	
Change Over Sub	1.00			4833.00	
Recorder	0.00	8353	Inside	4833.00	
Recorder	0.00	8676	Outside	4833.00	
Perforations	37.00			4870.00	
Blank Off Sub	1.00			4871.00	
Recorder	0.00	8646	Below	4871.00	
Packer - Shale	5.00			4876.00	
Stubb	1.00			4877.00	
Change Over Sub	1.00			4878.00	
Blank Spacing	157.00			5035.00	
Change Over Sub	1.00			5036.00	
Bullnose	3.00			5039.00	272.00 Bottom Packers & Anchor

**Total Tool Length: 304.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carmen Schmitt Inc

**28-4S-37W Cheyenne,KS**

PO Box 47  
Great Bend,KS 67530

**Four Boys #2-28**

Job Ticket: 68755

**DST#: 5**

ATTN: Brad Rine

Test Start: 2022.04.28 @ 14:10:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

12500 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.49 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
179.00	MW 70%W 30%M	0.880
1764.00	WM 50%M 50%W	24.744

Total Length: 1943.00 ft      Total Volume: 25.624 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: straddle recorder didn't work

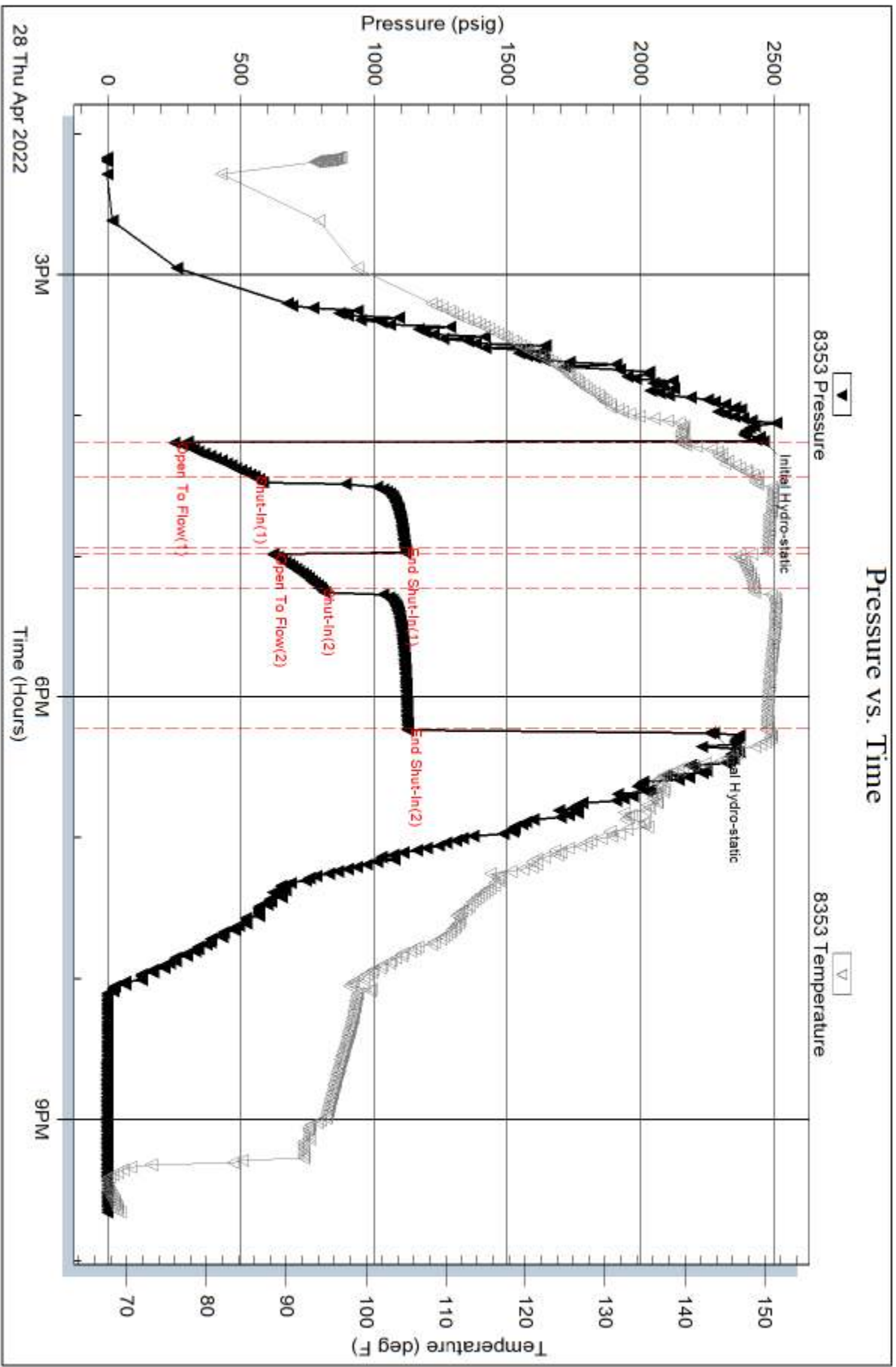
Serial #: 8353

Inside

Carmen Schmitt Inc

Four Boys #2-28

DST Test Number: 5



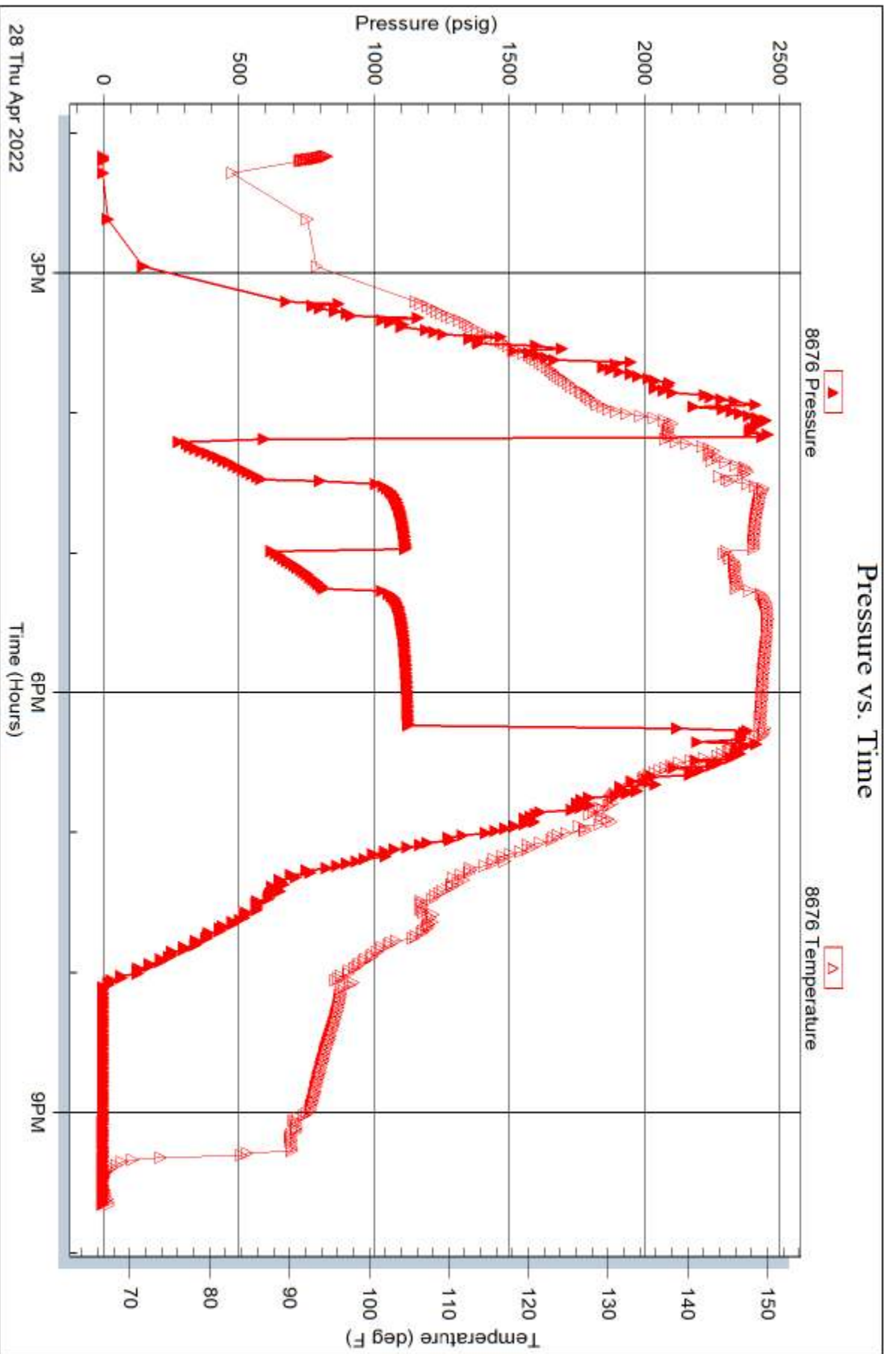
Serial #: 8676

Outside

Carmen Schnitt Inc

Four Boys #2-28

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 68755

Printed: 2022.05.03 @ 11:13:54



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68751**

Well Name & No. Four Boys #2-28 Test No. 1 Date 4/23/22  
 Company Carmen Schmitt, Inc Elevation 3412 KB 3407 GL  
 Address P.O. Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig Murfin #110  
 Location: Sec. 28 Twp 4s Rge. 37W Co. Chayenne State KS

Interval Tested 4232 - 4350 Zone Tested Toronto, LKC A, B, C  
 Anchor Length 118 Drill Pipe Run 4046 Mud Wt. 9.2  
 Top Packer Depth 4227 Drill Collars Run 179 Vls 67  
 Bottom Packer Depth 4232 Wt. Pipe Run \_\_\_\_\_ WL 6.4  
 Total Depth 4350 Chlorides 1000 ppm System LCM 2  
 Blow Description IF-Weak surface blow, built to 1/4 inch in 5 min, Final blow is 3/4 inch  
ISI- No blow back  
FP- No blow

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

Rec Total 10 BHT 127 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2198  Test 1950 T-On Location 01:30  
 (B) First Initial Flow \_\_\_\_\_ 70  Jars 300 T-Started 11:40  
 (C) First Final Flow \_\_\_\_\_ 78  Safety Joint \_\_\_\_\_ T-Open 14:05  
 (D) Initial Shut-In 1208  Circ Sub \_\_\_\_\_ T-Pulled 15:04  
 (E) Second Initial Flow \_\_\_\_\_ 82  Hourly Standby 4h 400 T-Out 17:30  
 (F) Second Final Flow \_\_\_\_\_  Mileage 118RT 177 Comments Didn't come out of the hole till after 3:30 PM  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ Due to weather  
 (H) Final Hydrostatic 1867  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 2827  
 Sub Total 2827 MPDST Disc't \_\_\_\_\_

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68752**

Well Name & No. Four Boys #2-28 Test No. 2 Date 4/24/22  
 Company Carmen Schmitt Inc Elevation 3412 KB 3407 OL  
 Address P.O. Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Bruce Rine Rig Murfin #110  
 Location: Sec. 28 Twp 4S Rge. 37W Co. Cherokee State KS

Interval Tested 4403-4490 Zone Tested LKC H, I, J  
 Anchor Length 87 Drill Pipe Run 4203 Mud Wt. 9.2  
 Top Packer Depth 4398 Drill Collars Run 179 Vis 54  
 Bottom Packer Depth 4403 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth 4490 Chlorides 800 ppm System LCM 2

Blow Description IF-Weak surface blow, built to 1/4 inch in 5 min. Final blow is 1/2 inch

ISF- No blow back

FF- No blow

FSI-

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</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 Total 5 BHT 130 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

- (A) Initial Hydrostatic 2294
- (B) First Initial Flow 54
- (C) First Final Flow 56
- (D) Initial Shut-In 172
- (E) Second Initial Flow 56
- (F) Second Final Flow \_\_\_\_\_
- (G) Final Shut-In \_\_\_\_\_
- (H) Final Hydrostatic 2100

- Test 1950
- Jars 300
- Safety Joint \_\_\_\_\_
- Circ Sub \_\_\_\_\_
- Hourly Standby \_\_\_\_\_
- Mileage 118RT 177
- Sampler \_\_\_\_\_
- Straddle \_\_\_\_\_
- Shale Packer \_\_\_\_\_
- Extra Packer \_\_\_\_\_
- Extra Recorder \_\_\_\_\_
- Day Standby \_\_\_\_\_
- Accessibility \_\_\_\_\_
- Sub Total 2427

- T-On Location 16:30
- T-Started 18:40
- T-Open 21:38
- T-Pulled 22:42
- T-Out 01:05

- Comments \_\_\_\_\_
- EM Tool -350
  - Ruined Shale Packer \_\_\_\_\_
  - Ruined Packer \_\_\_\_\_
  - Extra Copies \_\_\_\_\_
  - Sub Total -350
  - Total 2077

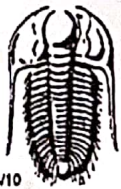
Initial Open 15  
 Initial Shut-In 30  
 Final Flow 10  
 Final Shut-In \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68753

Well Name & No. Four Boys #2-28 Test No. 3 Date 4/26/22  
 Company Carmen Schmitt Inc Elevation 3412 KB 3407 GL  
 Address P.O. Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig Martin #110  
 Location: Sec. 28 Twp 4S Rge. 37W Co. Cheyenne State KS

Interval Tested 4652 - 4692 Zone Tested Pawnee  
 Anchor Length 40 Drill Pipe Run 4455 Mud Wt. 9.3  
 Top Packer Depth 4647 Drill Collars Run 179 Vis 63  
 Bottom Packer Depth 4652 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 4692 Chlorides 1000 ppm System LCM 3

Blow Description IF - Weak surface blow, built to 1/4 inch, Final blow is 3/4 inch  
ISI - No blow back  
FF - No blow  
FSI -

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud spots of oil in</u>				<u>100</u>
	<u>tool</u>				

Rec Total 5 BHT 133 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2343  Test 1950 T-On Location 03:00  
 (B) First Initial Flow 18  Jars 300 T-Started 04:50  
 (C) First Final Flow 19  Safety Joint \_\_\_\_\_ T-Open 07:27  
 (D) Initial Shut-In 98  Circ Sub \_\_\_\_\_ T-Pulled 08:35  
 (E) Second Initial Flow 19  Hourly Standby \_\_\_\_\_ T-Out 10:20  
 (F) Second Final Flow \_\_\_\_\_  Mileage 118 RT 177 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2187  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 2427  
 Sub Total 2427 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68754**

Well Name & No. Four Boys #2-28 Test No. 4 Date 4/26/22  
 Company Carmen Schmitt Inc Elevation 3412 KB 3407 GL  
 Address P.O. Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig Murfin #110  
 Location: Sec. 28 Twp 4S Rge. 37W Co. Cheyenne State KS

Interval Tested 4681-4719 Zone Tested Myrick Station  
 Anchor Length 38' Drill Pipe Run 4487 Mud Wt. 9.4  
 Top Packer Depth 4676 Drill Collars Run 179 Vis 51  
 Bottom Packer Depth 4681 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth 4719 Chlorides 1000 ppm System LCM 2

Blow Description IF - Weak surface blow, built to 1/4 inch in 5 min, Final blow is 3/4 inch  
IST - No blow back  
FF - No blow  
FST -

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				<u>100</u>
_____	_____				
_____	_____				
_____	_____				
_____	_____				

Rec Total 5 BHT 133 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2350  
 (B) First Initial Flow 19  
 (C) First Final Flow 20  
 (D) Initial Shut-In 317  
 (E) Second Initial Flow 21  
 (F) Second Final Flow \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  
 (H) Final Hydrostatic 2214

Test 1950  
 Jars 300  
 Safety Joint \_\_\_\_\_  
 Circ Sub \_\_\_\_\_  
 Hourly Standby \_\_\_\_\_  
 Mileage 118 RT <sup>177</sup>  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2427

T-On Location 18:15  
 T-Started 18:54  
 T-Open 22:34  
 T-Pulled 23:31  
 T-Out 01:07

Comments Having problems with drum clutch @ 20:45  
Fixed it @ 21:45

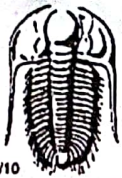
Initial Open 15  
 Initial Shut-In 30  
 Final Flow 10  
 Final Shut-In \_\_\_\_\_

EM Tool -350  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total -350  
 Total 2077

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68755

Well Name & No. Four Boys #2-28 Test No. 5 Date 4/28/22  
 Company Carmen Schmitt Inc Elevation 3412 KB 9407 GL  
 Address P.O. Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig Murfin #110  
 Location: Sec. 28 Twp 4S Rge. 37W Co. Cheyenne State KS

Interval Tested 4767-4871 Zone Tested Cherokee SD  
 Anchor Length 104' - Tail 169' Drill Pipe Run 4579 Mud Wt. 9.4  
 Top Packer Depth 4762 Drill Collars Run 179 Vis 55  
 Bottom Packer Depth 4767 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth 5040 Chlorides 2000 ppm System LCM 3

Blow Description IF - Strong surface blow, BOB in 1min 15sec, built to 76 inches

ISF - No blow back

FF - Fair surface blow, BOB in 3min, built to 47 inches

FSF - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>179</u>	<u>MW</u>		<u>70</u>	<u>30</u>	
<u>1764</u>	<u>WM</u>		<u>50</u>	<u>50</u>	
_____	_____				
_____	_____				
_____	_____				

Rec Total 1943 BHT 150 Gravity \_\_\_\_\_ API RW .490 @ 74 °F Chlorides 12,500 ppm

(A) Initial Hydrostatic 2462  Test 1700 T-On Location 12:30  
 (B) First Initial Flow 250  Jars 300 T-Started 14:10  
 (C) First Final Flow 546  Safety Joint \_\_\_\_\_ T-Open 16:11  
 (D) Initial Shut-In 1114  Circ Sub \_\_\_\_\_ T-Pulled 17:54  
 (E) Second Initial Flow 620  Hourly Standby \_\_\_\_\_ T-Out 20:59  
 (F) Second Final Flow 799  Mileage 118 RT 177 Comments Bottom Recorder failed  
 (G) Final Shut-In 1125  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2275  Straddle 600  EM Tool \_\_\_\_\_

Initial Open 15  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 15  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 60  Day Standby 1d 11.25h Sub Total 375  
 Accessibility \_\_\_\_\_ Total 3152  
 Sub Total 2777 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
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**M. Bradford Rine**

*Consulting Geologist*

*Licensed/Certified: Kansas, Wyoming, AAPG/DPA, SIPES*

*Phone: (316) 250-5941*

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

**Well Name:** Four Boys #2-28 - Carmen Schmitt, Inc.  
**API:** 15-023-21569-00-00  
**Location:** NW-NE-SE-SW, Section 28-04S-37W  
**License Number:** KCC #6569  
**Spud Date:** April 18, 2022  
**Surface Coordinates:** 1025' FSL & 2020' FWL,  
of Section  
**Bottom Hole Vertical Wellbore**  
**Coordinates:**  
**Ground Elevation (ft):** 3407 Ft.      **K.B. Elevation (ft):** 3412 Ft.  
**Logged Interval (ft):** 3900 Ft.    **To:** 5040 Ft    **Total Depth (ft):** RTD 5040 Ft. LTD 5038 Ft.  
**Formation:** Mississippian at Total Depth  
**Type of Drilling Fluid:** Chemical

**Region:** Cheyenne Co., Ks.  
**Drilling Completed:** April 29, 2022  
**Results:** P & A  
**Field:** Pianalto

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

**Operator**

**Company:** Carmen Schmitt, Inc.  
**Address:** PO Box 47  
Great Bend, Kansas 67530+0047

**Geologist**

**Name:** M. Bradford Rine  
**Company:** Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647  
**Address:** 100 South Main, Suite #320A  
Wichita, Kansas 67202

**Remarks**

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to plug and abandon the "Four Boys #2-28", on April 29, 2022.

Respectfully,  
M. Bradford Rine, geologist

## Drilling Information

**Rig:** Murfin Drlg, Rig #110  
**Pump:** National K-380 6x14  
**Drawworks:** National 550  
**Collars:** 528' 2-1/4 x 6-1/4  
**Drillpipe:** 4-1/2" 16.6# XH  
**Toolpusher:** Ricky Hilgers

**Mud:** Mudco (Reid Atkins)  
**Gas Detector:** None  
**Drill Stem Tests:** Trilobite (Nathan Aneas)  
**Logs:** Midwest (Dan Schmidt)  
**Water:** Water well at #1-28 Location (Midwest Waterline)  
**Company Representatives:**  
**Office:** Carmen Schmitt  
**Field:** None

## Daily Drilling Status

<b>Date:</b>	<b>Operations/Depth/Comments</b>
04-18-22	MIRT, RU, Spud @ 0'
04-19-22	Waiting on Cement @ 390'
04-20-22	Drilling @ 2400'
04-21-22	Bit Trip @ 3809'
04-22-22	Drilling @ 4122'
04-23-22	Trip Out of Hole for DST #1 @ 4350'
04-24-22	Drilling @ 4398'
04-25-22	Drilling @ 4500'
04-26-22	Trip in Hole with DST#3 @ 4692'
04-27-22	Circulating for Samples @ 4746'
04-28-22	Circulating to Condition Hole for Logging @ 5040' RTD
04-29-22	Complete Plugging at 10:00 AM, Rig Released

	Results: D&A			(Well A)	Oil	(Well B)	Oil		
	Carmen Schmitt, Inc.			Brito Oil Company		Brito Oil Company			
	Four Boys #2-28			Four Boys #1-28		Shelton Trust #1-33			
	1005'FSL&2047'FWL			2000'FSL&1320'FWL		660'FNL&2300'FWL			
	Sec. 28-045-37W			Sec. 28-045-37W		Sec. 33-045-37W			
	KB 3412			KB 3386		KB 3398		Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	3157	3152	260	3126	260	3131	267	0	-7
B/Anhydrite	3195	3191	221	3165	221	3169	229	0	-8
Topeka	4096	4040	-628	4070	-684	4068	-670	56	42
Heebner Sh	4232	4232	-820	4209	-823	4210	-812	3	-8
Toronto	4271	4270	-858	4248	-862	4246	-848	4	-10
Lansing	4286	4282	-870	4260	-874	4260	-862	4	-8
Muncie Creek Sh	4410	4406	-994	4385	-999	4383	-985	5	-9
Stark Sh.	4486	4486	-1074	4464	-1078	4462	-1064	4	-10
B/Kansas City	4560	4558	-1146	4536	-1150	4540	-1142	4	-4
Marmaton	4576	4576	-1164	4554	-1168	4550	-1152	4	-12
Pawnee	4669	4666	-1254	4648	-1262	4641	-1243	8	-11
Myrick Station	4696	4692	-1280	4676	-1290	4668	-1270	10	-10
Ft. Scott	4723	4720	-1308	4704	-1318	4696	-1298	10	-10
Cherokee Sh	4749	4748	-1336	4728	-1342	4723	-1325	6	-11
Cherokee Sd/Cgl	4807	4807	-1395	4786	-1400	4778	-1380	5	-15
Mississippian	4970	4970	-1558	4948	-1562	4947	-1549	4	-9
Total Depth	5040	5038	-1626	5000	-1614	4999	-1601	-12	-25

## Casing Record, Bit Record, Deviation Surveys

### CASING:

Conductor: None

Surface: Ran 9 jts 8-5/8" 23#, set at 390'. (HSI) Cement with 300sx H-325. PLug down at 2:00 AM, April 19, 2022. Cement did circulate.

Production: Plug as follows: 240 sx Total, 60/40 POZ, 04% gel, 1/4#/sk Floseal. 50sx @ 3200', 100sx @ 2200', 50sx @ 425', 10sx @ 40', 30sx in Rathole. Job completed at 10:00 AM, April 29, 2022.

### BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Smith	Tooth	0	390	5.00
2	7-7/8	Smith	Mi66 PDC	390	3809	36.75
3	7-7/8	Smith	F27	3809	5040	73.00

### DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
1.00*	390'	1.00*	4350'
1.00*	3809'	1.00*	5040'

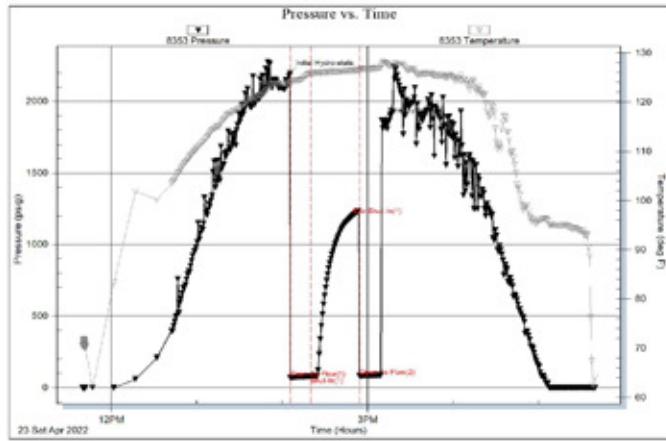
### PIPE STRAPS:

Difference:	Depth:
2.65 short	3809'

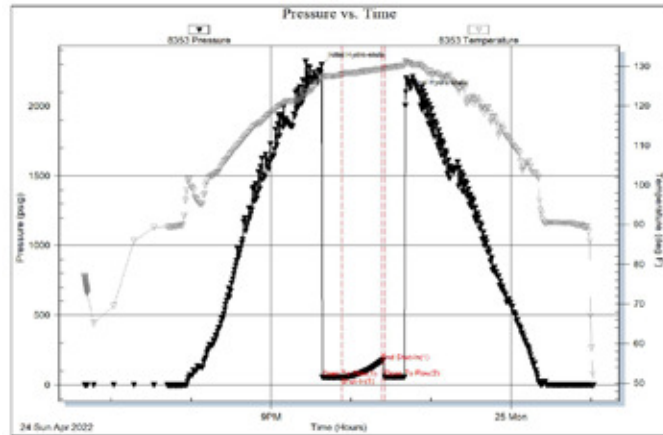
### MUD UP:

Displace and Mudup @ 3589'

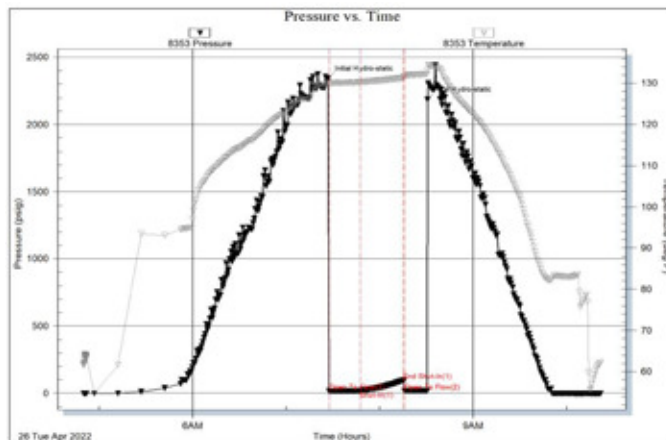
**DST #1: 4232-4350 (Tor, Lsg A,B,C)**  
**Times: 15-30-10-out**  
**Initial Open: Wk Blow, built to 0.75"**  
**Final Open: No Blow**  
**Rec: 10' mud**  
**IHP: 2198 FHP: 1867**  
**IFP: 70-78 FFP: 82-NA**  
**ISIP: 1208 FSIP: NA**  
**BHT: 127°F**  
**(Test pulled tight coming off bottom!)**



**DST #2: 4403-4490 (KC H,I,J)**  
**Times: 15-30-10-out**  
**Initial Open: Wk Blow, built to 1/2"**  
**Final Open: No Blow**  
**Rec: 5' mud**  
**IHP: 2294 FHP: 2100**  
**IFP: 54-56 FFP: 56-NA**  
**ISIP: 172 FSIP: NA**  
**BHT: 130°F**



**DST #3: 4652-4692 (Pawnee)**  
**Times: 15-30-10-out**  
**Initial Open: Wk Blow, built to 3/4"**  
**Final Open: No Blow**  
**Rec: 5' mud with oil spots in tool**  
**IHP: 2343 FHP: 2187**  
**IFP: 18-19 FFP: 19**  
**ISIP: 98 FSIP: NA**  
**BHT: 133°F**



**DST #4: 4681-4719 (Myrick Station)**

**Times: 15-30-10-out**

**Initial Open: Wk Blow, built to 3/4"**

**Final Open: No Blow**

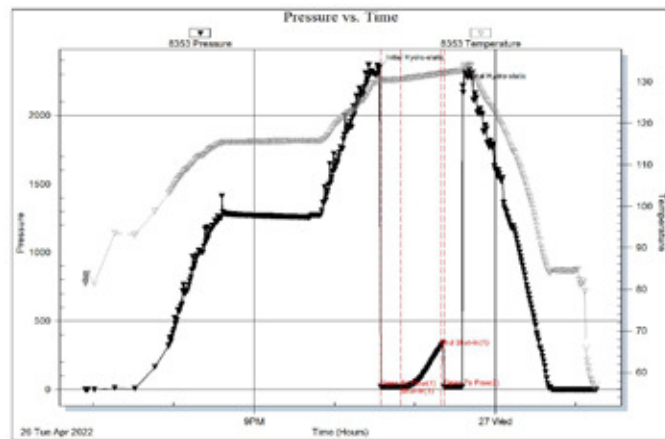
**Rec: 5' mud**

**IHP: 2350 FHP: 2214**

**IFP: 19-20 FFP: 21**

**ISIP: 317 FSIP: NA**

**BHT: 133°F**



**DST #5: 4767-4871 (Cherokee/Mw Sd)**

**\*Straddle Test - After Logs!\***

**Times: 15-30-15-60**

**Initial Open: Stg Blow, b.o.b. 1.25 min,**

**Built to 76", No Return Blow**

**Final Open: Stg Blow, b.o.b. 3 min,**

**Built to 47", No Return Blow**

**Rec: 1943' Total Fluid**

**179' MCW: 70%w 30%m**

**1764' WCM: 50%w 50%m**

**(Chl of wtr: 12,500ppm, Chl of mud: 1300ppm)**

**IHP: 2462 FHP: 2275**

**IFP: 250-546 FFP: 620-799**

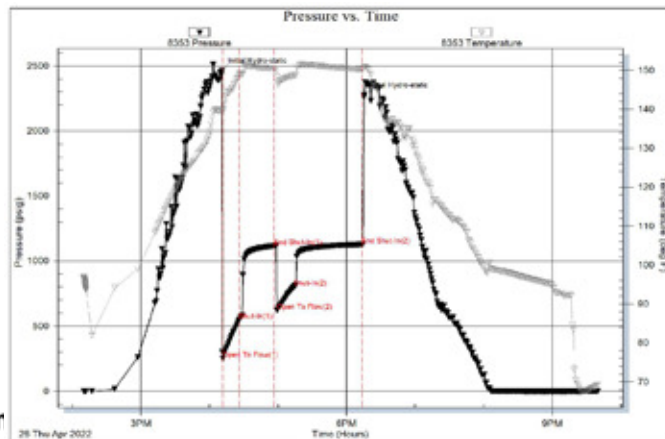
**ISIP: 1114 FSIP: 1125**

**BHT: 150°F**

**\*(The recorder at the straddle packer corrupted.**

**No data was retrievable. It is unknown if**

**straddle packer failed or held!)**





Anhydrite Interval, based on drill time only!

< B/ANHYDRITE

← 3195 (+217)

ROP (min/ft)

3200

50

<<< Depth Change >>>

3900

conn

\* No Shows in Spls from 3900-4000 ft!

conn

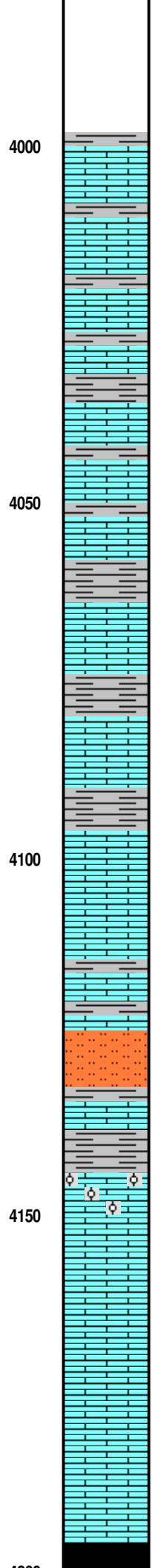
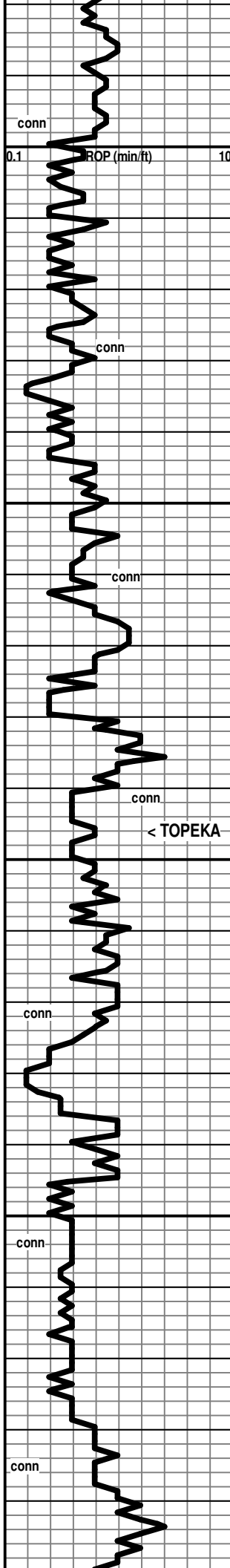
3950

conn

\* Bit Trip @ 3809 ft!

Pipe Strap @ 3809 ft:  
2.65' short!





75% Ls wh, fn xln, pr xln por, foss; 25% Sh red-gy-grn  
**[No Odor, No fluor, scatt blk gilson specks, NSFO]**

80% Ls wh-cr, fn xln, pr xln por, foss; 20% Sh red-gy-grn

90% Ls wh-cr, fn xln, pr xln por to dns, foss; 10% Sh red-gy-grn  
**[No Odor, No fluor, few pcs with scatt blk gilson specks, NSFO]**

90% Ls wh-pl gy, fn xln, subchalky in pt, pr xln por to dns in pt, foss; 10% Sh red-gy-grn

Sh red- gy-grn

Ls wh, fn xln, mostly pr xln por to dns, foss  
**[No Odor, No fluor, few pcs with specks of gilson, NSFO]**

← 4096 (-684)

Ls wh, fn xln, pr-fr xln por in pt, subchalky in pt, foss to packed foss

Ls wh, fn xln, pr-fr xln por in pt, subchalky in pt, foss to packed foss; 15% Sh red-gy-grn  
**[No Odor, No Fluor, few pcs with dry, dead brnsh-copperish patches, ? stn, NSFO]**

Ls wh, fn xln, pr xln por in pt, subchalky in pt, foss to packed foss; 15% Sh red-gy-grn  
**[No Odor, No Fluor, few pcs with dry, Dead resid stn, few pcs with trace of dk brn NVL micro-drops on crush, NSFO]**

Siltstone gy-grn-red, shaley in pt, calc in pt

Ls wh-cr, fn xln, pr-fr xln por, subchalky in pt, abund foss, ool in pt

Ls wh-cr, fn xln, abund chalky & soft, some pr xln por, scatt sm vugs, foss

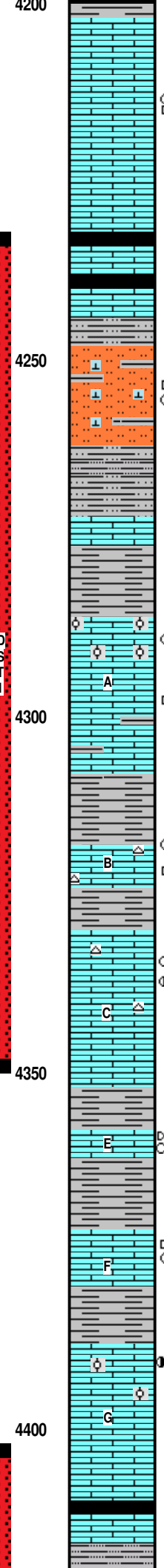
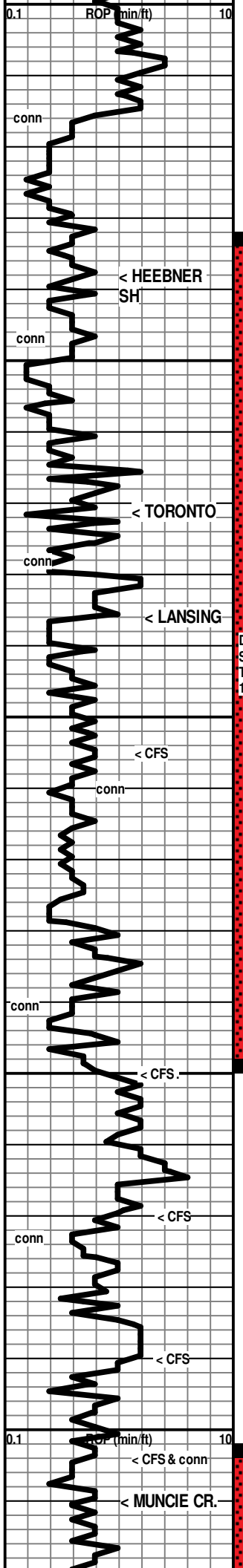
Ls wh-cr, fn xln, abund chalky & soft, some pr xln por, scatt sm vugs, foss

4190' spl: Trace of black, carb shale with Ls as above

Ls vfn-fn xln, dns, sli foss in pt, with some dk gy & black shale

7:00 AM, April 22, 2022

Mud Check, Drlg @ 4167':  
 Vis Wt WL PV YP  
 67 9.2 6.4 18 17  
 Chl Hd pH Solids  
 1000 60 11.5 6.0



Ls above above with increased dark gy & black shale

4230' spl: 60% Ls wh-cr-gy, fn xln, pr-fr xln por in pt, chalky in pt, some chalky, foss in pt; 40% Sh red-gy-gm-black

[No Odor, No fluor, Rr pcs with specks of resid blk stn, NSFO]

4240' spl: Ls cr, fn xln, pr xln por to dns, foss  
 ← 4232 (-820)

4250' spl: Mostly Ls, wh-cr-tan, fn xln, pr xln por in pt, foss to abund foss; Low % of black shale

Mix of siltstones pl gy-gyish white, calc in pt, silty gy shales, Ls cr-gy, dns  
 [No Odor, No fluor, NSFO, scatt patches of black speckled residual DO]

← 4271 (-859)  
 Ls cr, fn xln, dns, foss in pt  
 Sh gy-red

← 4286 (-874)  
 Ls wh, fn xln, pr vis xln por, some subchalky, ool & abund foss with scatt interool/interfoss pores  
 Show descr. →

Ls wh-cr, fn xln, pr xln por to dns, foss  
 Sh gy-grnish gy-grm

4330' spl: 60% Ls wh-cr, fn xln, pr xln por subchalky in pt, foss in pt, scatt pp pores; 30% Sh red-gy grm, silty in pt, pyritic in pt; 10% pyrite and fresh chert  
 Show Descr. →

Sh gy-grm-red (washes red)

Ls wh, fn xln, much dns with scatt pr xln por, some subchalky, Rr sm vugs, foss, chert: fresh, subtrans-transl  
 Show Descr. →

4360' spl: 80% Ls wh, vfn-fn xln, dns, sli foss; 20% Sh redpl grn-black

4370' spl: 85% Ls wh-cr, vfn-fn xln, dns with Rr patches of pr xln por, chalky in pt, sli foss  
 [No Odor, No fluor, NSFO, few pcs with scant spots of Dk brn & blk resid stn]

4380' spl: 90% Ls wh-cr, fn xln, chalky in pt, mostly dns, Rr pr xln por, foss; 10% Sh red-gy-dk

4390' spl: 90% Ls wh-cr, fn xln, chalky in pt, mostly dns, Rr pr xln por, scatt pyr patches, foss; 10% Sh red-gy-grm-dk

[No Odor, No fluor, NSFO, few pcs with scant spots of Dk brn stn]  
 Ls wh-cr-tan, vfn-fn xln, chalky in pt, dns in pt

4400' spl: Ls wh-cr, fn xln, chalky in pt, pr xln por with scatt pp pores, some grainy text pcs, foss  
 Show Descr. →

Ls wh-cr-tan, fn xln, subchalky in pt, foss in pt, scatt ool pcs; 40 min cfs was 90% lcm  
 ← 4410 (-998)  
 Sh black, carb

4430' spl: 50% Ls cr-pl gy, fn xln, dns, foss; 50% Sh red-gy-dk gy, & Cht-arg-ult

DST #1: 4232-4350 (Tor, Lsg A,B,C)  
 Times: 15-30-10-out  
 Initial Open: Wk Blow, built to 0.75"  
 Final Open: No Blow  
 Rec: 10' mud  
 IHP: 2198 FHP: 1867  
 IFP: 70-78 FFP: 82-NA  
 ISIP: 1208 FSIP: NA  
 BHT: 127°F  
 (Test pulled tight coming off bottom!)

\* High Winds blowing swivel and drilling line around causing erratic drilling!

\*Preparing for DST #1 @ 4350', Ran two short trips due to tight hole conditions. 12 stds then 19 stds!

[Fnt Odor, scatt dull-mod spotty & patchy fluor, moderately abund am't of patchy brn stn, with trace to sli shows of NVL dk brn oil and trace to sli shows of sli gassy brn FO on crush, some dead gilson stn, scatt dk tarry oil, becoming more dead/gilson with depth]

[Show Possibly form above? No Odor, Rr spots of dull fluor, Mostly gilson to tarry spots with Rr tr of dk micr-drops NVL oil]

[No Odor, Rr spots of dull fluor, mod % pcs with spotty brn-dk brn-blk stn, Some pcs with trace to sli shows of brn micro-drops and sm drops of FO on crush, some NVL oil on crush, some gilson dead spots]

Mud Check, CTCH @ 4350':

Vis	Wt	WL	PV	YP
54	9.2	8.0	16	15
Chl	Hd	pH	Solids	
600	120	10.0	6.1	

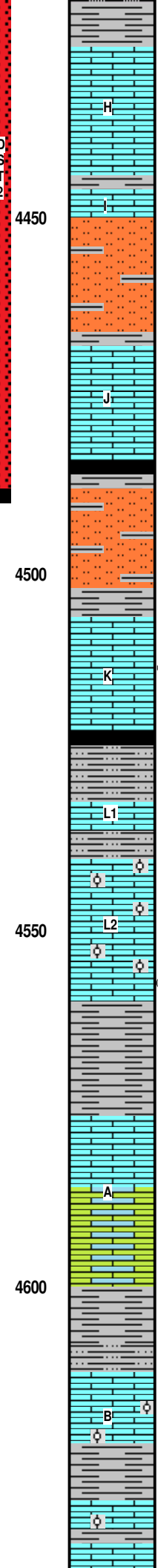
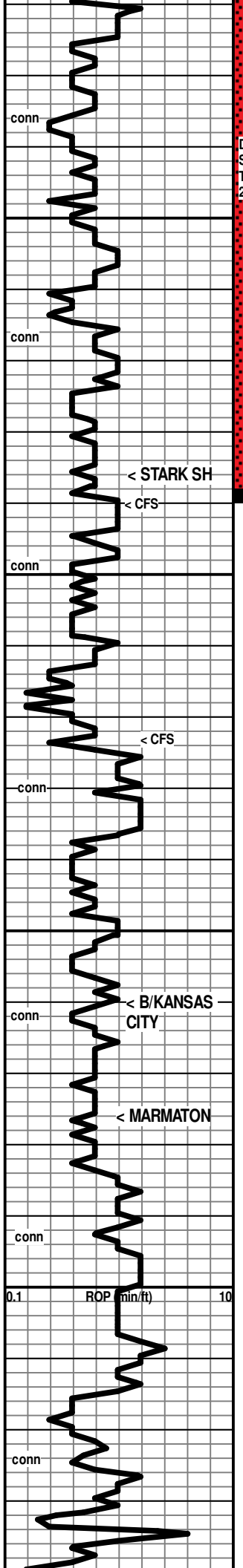
\* Marked Spl depths may be unreliable between 4370-4400'

[No Odor, Scatt dull spotty fluor, scatt spotty brn-dk brn stn, with low% pcs with sli shows of brn FO & dk brn NVL on crush. This show may be from earlier, near 4380'?]

7:00 AM, April 24, 2022

Mud Check, Drlg @ 4400':

Vis	Wt	WL	PV	YP
54	9.2	7.2	15	17
Chl	Hd	pH	Solids	
800	60	10.0	5.9	



& Siltstone wh-gy

Ls wh-cr, fn xln, pr xln por in pt, abund chalky to subchalky in pt, foss in pt, becoming more dns and more chalky with depth

[No Odor, Scatt spotty to patchy dull-mod fluor, abund spotty-patchy lt brn stn mostly in chalky pcs, mod am't of pcs with trace-v sli shows of NVL of some tiny drops of lt brn FO, Rr trace gassy, some dead oil]

Sh & Siltstone, mostly red, some gy-grn, soft (washes red); Low % Ls wh, fn xln, dsn foss

Sh & Siltstone, mostly red, some gy-grn, mushy-soft (washes deep red);

Ls wh-cr, fn xln, mostly dns, scatt pr xln por, scatt foss pores, a few grainy text pcs, abund mixed foss

Show Descr. —————>

Ls wh-cr, fn xln, dns to pr xln por in patches, foss

←————— 4486 (-1074)

Sh dk gy-black, soft

Siltstone & Shale mostly dk red, somewh-gy-grnish, soft (washes red)

Ls wh-cr, fn xln, dns to some pr xln por, Rr pp pores, abund foss

[No Odor, Few pcs per tray with dull fluor, and spotty-patchy brn stn, and trace shows of brn micr-drops of NVL oil & tr of dk brn micro-drops FO]

Ls wh-cr, fn xln, dns to chalky

4540' spl: 80% Sh pl red-red, mushy, silty in pt (washes deep red); 20% Ls wh-cr, fn xln, dns, foss

4550' spl: 85% Ls wh-cr-gy, vfn-fn xln, mostly dns with Rr patch of pr xln por, foss; 15% Sh red-gy-dk gy-grn, silty in pt (washes red)

4560' spl: 50% Ls wh-cr-gy, vfn-fn xln, mostly dns with Rr patch of pr xln por, foss; 50% Sh red-gy-dk gy-grn, silty in pt (washes red)

4570' spl: 98% Ls wh-cr-tan, vfn-fn xln, dnsin pt, chalky in pt, abund packed ool pcs-well cemented

←————— 4560 (-1148)

4580' spl: 75% Ls wh-cr-gy, vfn-fn xln, dns, sli foss in pt; 25% Sh & silty sh red, soft, (washes red)

←————— 4576 (-1164)

4590' spl: 85% Ls wh-cr-gy, vfn-fn xln, mostly dns, subchalky in pt, foss; 25% Sh red-gy-grn

Ls & Dol Ls cr & gy, vfn-fn xln, grainy/subsucr text in pt, dns, v hard

4620' spl: 70%pink-red mushy shale (washes reddish); 30% Ls wh-gy, vfn xln, dns

4630' spl: Ls wh-cr, fn xln, mostly dns, soome chalky, grainy in pt, micro-ool in pt, appears well cem.

4640' spl: Ls wh-cr, fn xln, chalky in pt, mostly dns, scatt pr xln por, foss, ool in pt-well cem.

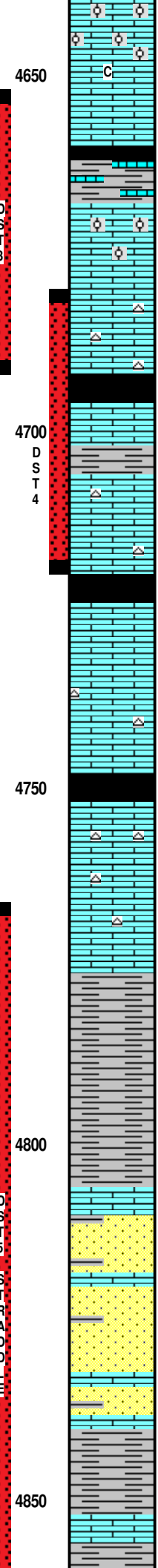
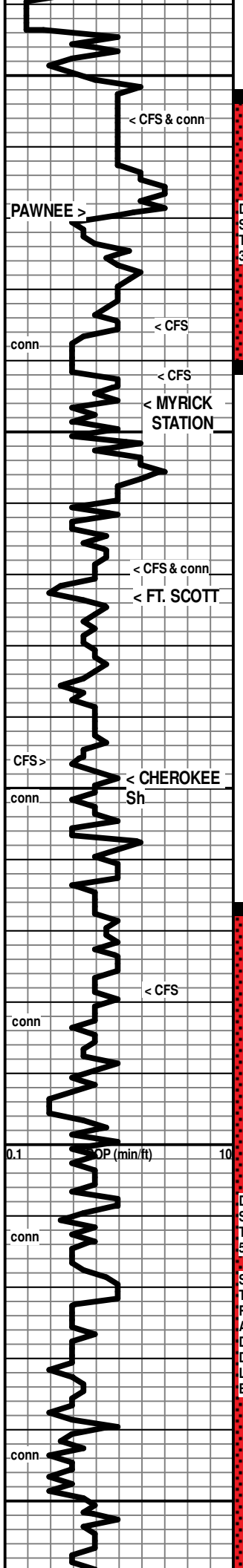
[No Odor, No fluor, few pcs with patchy lt brn stn, tr show of tan oily film on crush, some blk resid spots,

DST #2: 4403-4490 (KC H,I,J)  
 Times: 15-30-10-out  
 Initial Open: Wk Blow, built to 1/2"  
 Final Open: No Blow  
 Rec: 5' mud  
 IHP: 2294 FHP: 2100  
 IFP: 54-56 FFP: 56-NA  
 ISIP: 172 FSIP: NA  
 BHT: 130°F

[No Odor, spotty-patchy dull mod-brt fluor, low % pcs with brn-blk patches of spotty stn, few pcs with even dk stn, some pcs with sli+ shows of brn gassy FO & trace of tiny drops of NVL oil & trace & tiny drops of FO on crush]

7:00 AM, April 25, 2022

Mud Check, Drlg @ 4520':  
 Vis Wt WL PV YP  
 63 9.3 8.0 18 16  
 Chl Hd pH Solids  
 1000 80 9.5 6.6



NSFO

4650' spl: 60% Ls wh, fn xln, ool with interool pores & scatt weth'd ool; 40% mixed shales

4656' spl: Ls as above

Ls wh-cr, fn xln, dns & hard to softer & chalky, with Rr pr xln por, foss

Ls cr-gy, vfn xln, mostly dns, some chalky pcs, some silty text pcs, foss

Sh black, carb

Sh red-gy-dk gy-grn, with some dns wh Ls

← 4669 (-1257)

Ls wh-cr, fn xln, pr xln por, chalky in pt, scatt pp interool pores, ool in pt (small), foss

[No Odor, mod % pcs with spotty-patchy mod fluor, with tan-tl brn spotty-patchy stn, with Tr-sli shows of tan-brn FO on crush in some pcs, sli gassy]

Ls wh-cr-tan, fn xln, dns, foss in pt, chert: fresh, cr-tan, transl

Sh black, carb

← 4696 (-1284)

4710' spl: Ls wh-cr-tan, fn xln, pr xln por, scatt pp pores & sm vugs, foss

Sh gy

Show Descr. →

Ls wh-cr-tan, fn xln, pr xln por to dns, with scatt pp pores & a few sm vugs, foss, chert: fresh, wh-cr, subtransl-subopaq, foss

Show Descr. →

Sh black, carb (abund in 4730' spl)

← 4723 (-1311)

Ls wh-cr-tan-gy, vfn-fn xln, mostly dns, some subchalky, foss-abund foss, scatt embedded pyr patches

Ls wh-cr-tan-gy, vfn-fn xln, mostly dns, some subchalky, some grainy text pcs, foss, Tr of chert: fresh, cr, subtransl

← 4749 (-1337)

Sh black, carb

4760' spl: Ls wh-cr-tan, vfn-fn xln, mostly dns, low % pr xln por, some chalky, foss in pt, chert: fresh, tan, subtr.

4770' spl: Ls wh-cr-tan-gy, vfn-fn xln, mostly dns, low % pr xln por, some chalky, foss in abund, chert: fresh, wh-tan, subtr.

4778' spl: Ls wh-cr, vfn-fn xln, mostly dns & hard, some softer & chalky, Rr pr xln por in patches & pcs, foss, sli chert as above

4790' spl: 80% Sh mostly gy-grn, some red; 20% Ls wh-cr-tan, fn xln, dns, foss

4800' spl: 70% Sh red-gy-grn, subsilty in pt, earthy text in pt; 30% Ls wh-cr, fn xln, dns to pr xln por

4810' spl: 85% Sh red-gy-grn, subsilty-silty in pt, earthy text in pt; 15% Ls wh-cr, fn xln, dns to pr xln por; Trace Sd wh, calc in pt, cem, glauc,

4820' spl: 85% Sh red-gy-grn, subsilty-silty in pt, earthy text in pt; 15% Ls wh-cr, fn xln, dns to pr xln por, scatt embedded and loose sd grns, fn-md-crs, subrd'd, Trace Sd wh, calc in pt, cem, glauc, subfrostod

4830' spl: 80% Sh red-gy-grn, subsilty-silty in pt, earthy text in pt; 15% Ls wh-cr, fn xln, dns to pr xln por, 05% Sd scatt embedded and loose sd grns, fn-md-crs, subrd'd-subanglr, pr-fr sort, pr-gd fri, pr-fr grmlr por, wh, calc in pt, cem, glauc, a few loose subrd crs, subfrostod

4840' & 4850' spl: 85% Sh red-gy-grn, subsilty-silty in pt, earthy text in pt; 05% Ls wh-cr, fn xln, dns to pr xln por, 10% Sd scatt embedded and loose sd grns, fn-md-crs, subrd'd-subanglr, pr-fr sort, pr-gd fri, pr-fr grmlr por, wh, calc in pt, cem, glauc, a few loose subrd crs, subfrostod

4860' spl: 90% Sh red-gy-grn, subsilty-silty in pt, earthy text in pt; 05% Ls wh-cr, fn xln, dns to pr xln por; 05% Sd scatt embedded and loose sd grns, fn-md-crs, subrd'd-subanglr, pr-fr sort, pr-gd fri, pr-fr grmlr por, wh, calc in pt, cem, glauc in pt

4870' spl: 85% Sh red-gy-grn, subsilty-silty in pt, earthy text in pt; 10% Ls wh-cr, fn xln, silty-sdy in pt, dns to pr xln por; 05% Sd scatt embedded and loose sd grns, fn-md-crs, subrd'd-subanglr,

DST #3: 4652-4692 (Pawnee)

Times: 15-30-10-out

Initial Open: Wk Blow, built to 3/4"

Final Open: No Blow

Rec: 5' mud with oil spots in tool

IHP: 2343 FHP: 2187

IFP: 18-19 FFP: 19

ISIP: 98 FSIP: NA

BHT: 133°F

Mud Check, TIH/DST3 @ 4692':

Vis	Wt	WL	PV	YP
51	9.4	7.2	15	16
Chl	Hd	pH	Solids	
1000	80	10.5	7.3	

7:00 AM, April 26, 2022

[V Fnt Odor, abund patchy mod-brt fluor, mod'ly-low % pcs with sli shows of lt brn-brn gassy FO & some brn NVL oil on crush]

[No Odor, mod am't of patchy mod fluor, low% pcs with spotty-patchy lt brn stn, with trace-sli shows of brn gassy FO on crush]

DST #4: 4681-4719 (Myrick Station)

Times: 15-30-10-out

Initial Open: Wk Blow, built to 3/4"

Final Open: No Blow

Rec: 5' mud

IHP: 2350 FHP: 2214

IFP: 19-20 FFP: 21

ISIP: 317 FSIP: NA

BHT: 133°F

7:00 AM, April 27, 2022

Mud Check, Drlg @ 4792':

Vis	Wt	WL	PV	YP
45	9.4	8.0	15	15
Chl	Hd	pH	Solids	
1300	80	10.5	7.4	

DST #5: 4767-4871 (Cherokee/Mw Sd)

\*Straddle Test - After Logs!

Times: 15-30-15-60

Initial Open: Stg Blow, b.o.b. 1.25 min, Built to 76", No Return Blow

Final Open: Stg Blow, b.o.b. 3 min, Built to 47", No Return Blow

Rec: 1943' Total Fluid

179' MCW: 70%w 30%w

1764' WCM: 50%w 50%w

(Chl of wtr: 12,500ppm, Chl of mud: 1300ppm)

IHP: 2462 FHP: 2275

IFP: 250-546 FFP: 620-799

ISIP: 1114 FSIP: 1125

BHT: 150°F

\*(The recorder at the straddle packer corrupted. No data was retrievable. It is unknown if straddle packer failed or held!)

