

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	BEREXCO LLC
Well Name	PRR 1-22
Doc ID	1517571

All Electric Logs Run

Sonic
Porosity
Resistivity
Microlog





MAR 24 2020

### HURRICANE SERVICES INC

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

Customer:  
BEREXCO LLC  
2020 N BRAMBLEWOOD  
WICHITA, KS 67206-1094

Invoice Date: 3/4/2020  
Invoice #: 0346978  
Lease Name: PRR  
Well #: 1-22 (New)  
County: Cheyenne, Ks  
Job Number: ICT3367  
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Cement Pump	1.000	637.500	637.50
Heavy Eq Mileage	95.000	3.400	323.00
Light Eq Mileage	95.000	1.700	161.50
H-325	300.000	17.000	5,100.00
Ton Mileage	1,406.400	1.275	1,793.16

*Cmt 8 5/8" surf csq*

*cc: WF*

*RRR*

**Total** 8,015.16

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% 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!**



**HURRICANE SERVICES INC**

<b>Customer</b> <b>Borexco LLC</b>		<b>Lease &amp; Well #</b> <b>PRR #1-22</b>		<b>Date</b> <b>3/4/2020</b>	
<b>Service District</b> <b>Oakley KS</b>		<b>County &amp; State</b> <b>Chayenne KS</b>		<b>Logals S/T/R</b> <b>s2/sø 22-2S-38W</b>	
<b>Job Type</b> <b>surface</b>		<input checked="" type="checkbox"/> <b>PROD</b> <input type="checkbox"/> <b>INJ</b> <input type="checkbox"/> <b>SWD</b>		<b>New Well?</b> <input type="checkbox"/> <b>YES</b> <input checked="" type="checkbox"/> <b>No</b>	
<b>Equipment #</b>		<b>Driver</b>		<b>Ticket #</b> <b>ICT 3367</b>	
<b>29</b>		<b>Josh Mosier</b>		<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b> <input checked="" type="checkbox"/> <b>Hard hat</b> <input checked="" type="checkbox"/> <b>Gloves</b> <input type="checkbox"/> <b>Lockout/Tagout</b> <input type="checkbox"/> <b>Warning Signs &amp; Flagging</b> <input checked="" type="checkbox"/> <b>H2S Monitor</b> <input checked="" type="checkbox"/> <b>Eye Protection</b> <input type="checkbox"/> <b>Required Permits</b> <input type="checkbox"/> <b>Fall Protection</b> <input checked="" type="checkbox"/> <b>Safety Footwear</b> <input type="checkbox"/> <b>Respiratory Protection</b> <input checked="" type="checkbox"/> <b>Slip/Trip/Fall Hazards</b> <input type="checkbox"/> <b>Specific Job Sequence/Expectations</b> <input checked="" type="checkbox"/> <b>FRC/Protective Clothing</b> <input type="checkbox"/> <b>Additional Chemical/Acid PPE</b> <input checked="" type="checkbox"/> <b>Overhead Hazards</b> <input checked="" type="checkbox"/> <b>Muster Point/Medical Locations</b> <input type="checkbox"/> <b>Hearing Protection</b> <input checked="" type="checkbox"/> <b>Fire Extinguisher</b> <input type="checkbox"/> <b>Additional concerns or issues noted below</b>	
<b>230</b>		<b>Jesse Jones</b>			
<b>194/254</b>		<b>Mike Rebarchek</b>			
<b>78</b>		<b>Dane Retzloff</b>			
<b>Comments</b>					
<b>Product/ Service Code</b>					
		<b>Description</b>		<b>Unit of Measure</b>	
				<b>Quantity</b>	
				<b>Net Amount</b>	
<b>c010</b>	<b>Cement Pump</b>		<b>ea</b>	<b>1.00</b>	<b>\$637.50</b>
<b>m010</b>	<b>Heavy Equipment Mileage</b>		<b>mi</b>	<b>95.00</b>	<b>\$323.00</b>
<b>m015</b>	<b>Light Equipment Mileage</b>		<b>mi</b>	<b>95.00</b>	<b>\$161.50</b>
<b>cp015</b>	<b>H-325</b>		<b>sack</b>	<b>300.00</b>	<b>\$5,100.00</b>
<b>m020</b>	<b>Ton Mileage</b>		<b>tm</b>	<b>1,406.40</b>	<b>\$1,793.16</b>
<b>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</b>					
				<b>Total Taxable</b>	<b>\$ -</b>
				<b>Tax Rate:</b>	
				<b>Net:</b>	<b>\$8,015.16</b>
<b>Based on this job, how likely is it you would recommend HSI to a colleague?</b>				State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	
<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"/>					
Unlikely   1   2   3   4   5   6   7   8   9   10   Extremly Likely				<b>Sale Tax:</b>	<b>\$ -</b>
				<b>Total:</b>	<b>\$ 8,015.16</b>
<b>HSI Representative:</b> <i>Josh Mosier</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**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco  
2020 N Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

**23-2-38 Cheyenne, Ks**

**PRR 1-22**

Job Ticket: 66629

**DST#: 1**

Test Start: 2020.05.02 @ 02:08:46

## GENERAL INFORMATION:

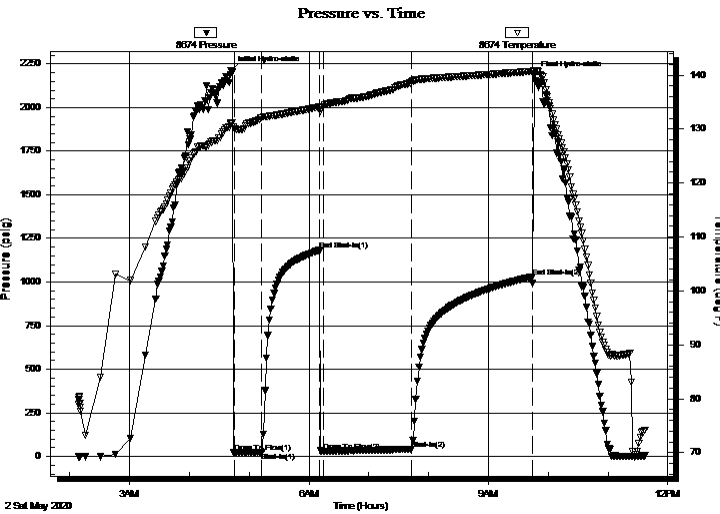
Formation: **Lansing A**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:45:16  
 Time Test Ended: 11:37:16  
 Interval: **4330.00 ft (KB) To 4420.00 ft (KB) (TVD)**  
 Total Depth: 4420.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3456.00 ft (KB)  
 3448.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8674

Outside

Press@RunDepth: 41.08 psig @ 4331.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.05.02 End Date: 2020.05.02 Last Calib.: 1899.12.30  
 Start Time: 02:08:51 End Time: 11:37:16 Time On Btm: 2020.05.02 @ 04:41:46  
 Time Off Btm: 2020.05.02 @ 09:45:46

TEST COMMENT: IF: 1/4 blow built to 2 1/2.  
 IS: No return.  
 FF: Surface blow built to 3/4.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.04	131.15	Initial Hydro-static
4	21.59	130.11	Open To Flow (1)
31	26.10	132.11	Shut-In(1)
89	1181.99	134.11	End Shut-In(1)
93	29.22	134.21	Open To Flow (2)
181	41.08	138.78	Shut-In(2)
302	1029.68	140.72	End Shut-In(2)
304	2182.56	140.89	Final Hydro-static

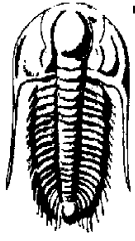
## Recovery

Length (ft)	Description	Volume (bbl)
50.00	wcm 5%w 95%m	0.70

## Gas Rates

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





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Berexco  
2020 N Bramble ood  
Wichita, KS 67206  
ATTN: Bryan Bynog

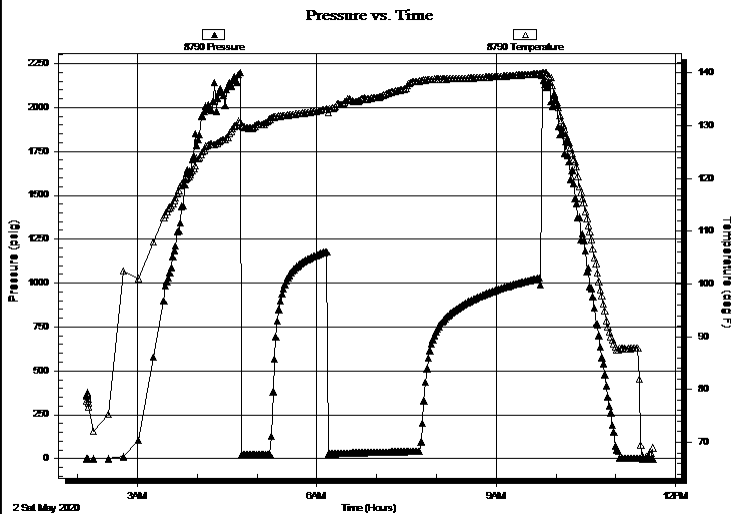
**23-2-38 Cheyenne, Ks**  
**PRR 1-22**  
Job Ticket: 66629 **DST#: 1**  
Test Start: 2020.05.02 @ 02:08:46

**GENERAL INFORMATION:**

Formation: **Lansing A**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 04:45:16 Tester: Brandon Turley  
Time Test Ended: 11:37:16 Unit No: 79  
**Interval: 4330.00 ft (KB) To 4420.00 ft (KB) (TVD)** Reference Elevations: 3456.00 ft (KB)  
Total Depth: 4420.00 ft (KB) (TVD) 3448.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8790** Inside  
Press@RunDepth: psig @ 4331.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2020.05.02 End Date: 2020.05.02 Last Calib.: 2020.05.02  
Start Time: 02:08:57 End Time: 11:37:22 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: 1/4 blow built to 2 1/2.  
IS: No return.  
FF: Surface blow built to 3/4.  
FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
50.00	w cm 5%w 95%m	0.70

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco

**23-2-38 Cheyenne, Ks**

2020 N Bramblewood  
Wichita, KS 67206

**PRR 1-22**

Job Ticket: 66629

**DST#: 1**

ATTN: Bryan Bynog

Test Start: 2020.05.02 @ 02:08:46

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	w cm 5%w 95%m	0.701

Total Length: 50.00 ft      Total Volume: 0.701 bbl

Num Fluid Samples: 0

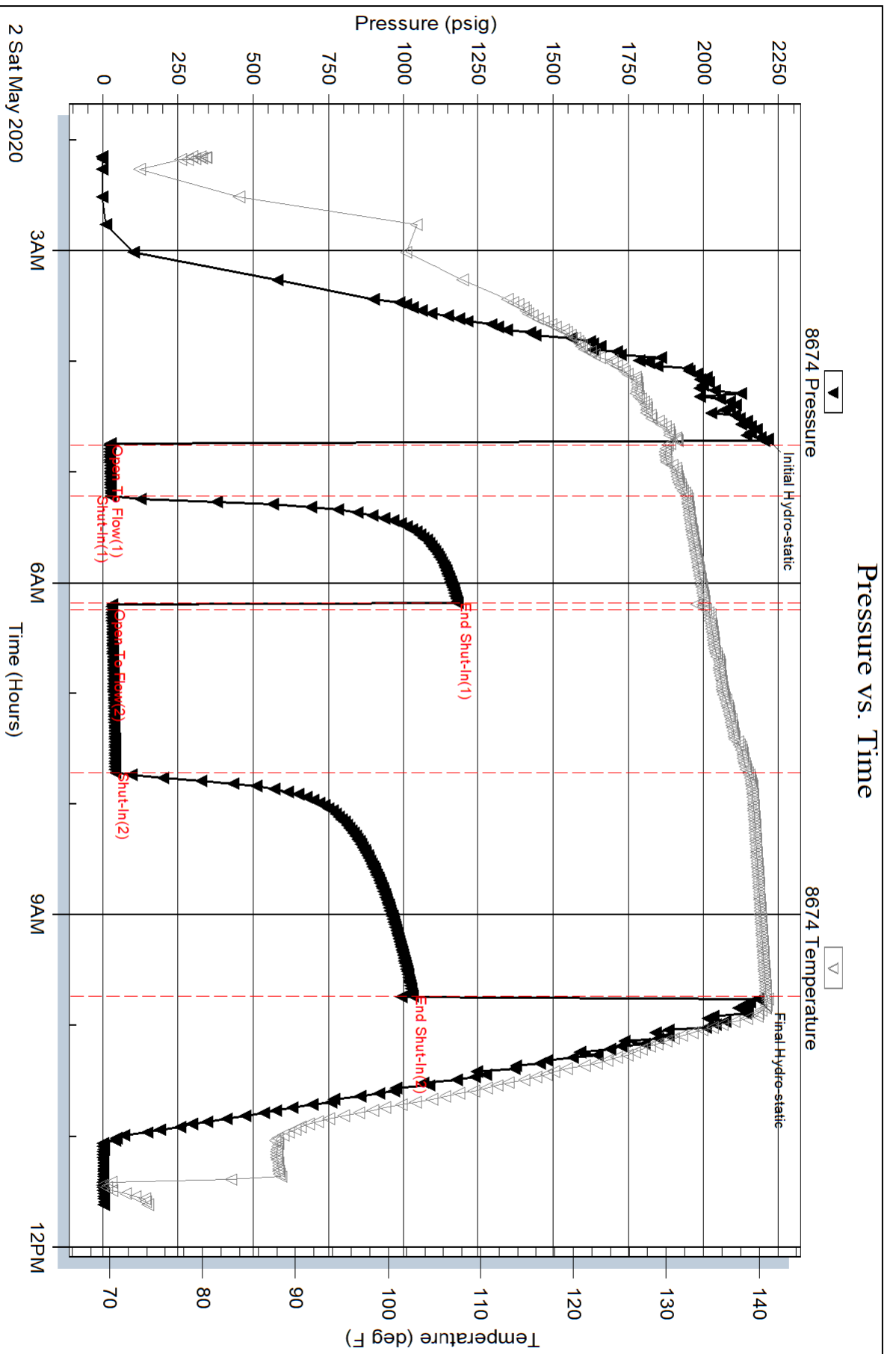
Num Gas Bombs: 0

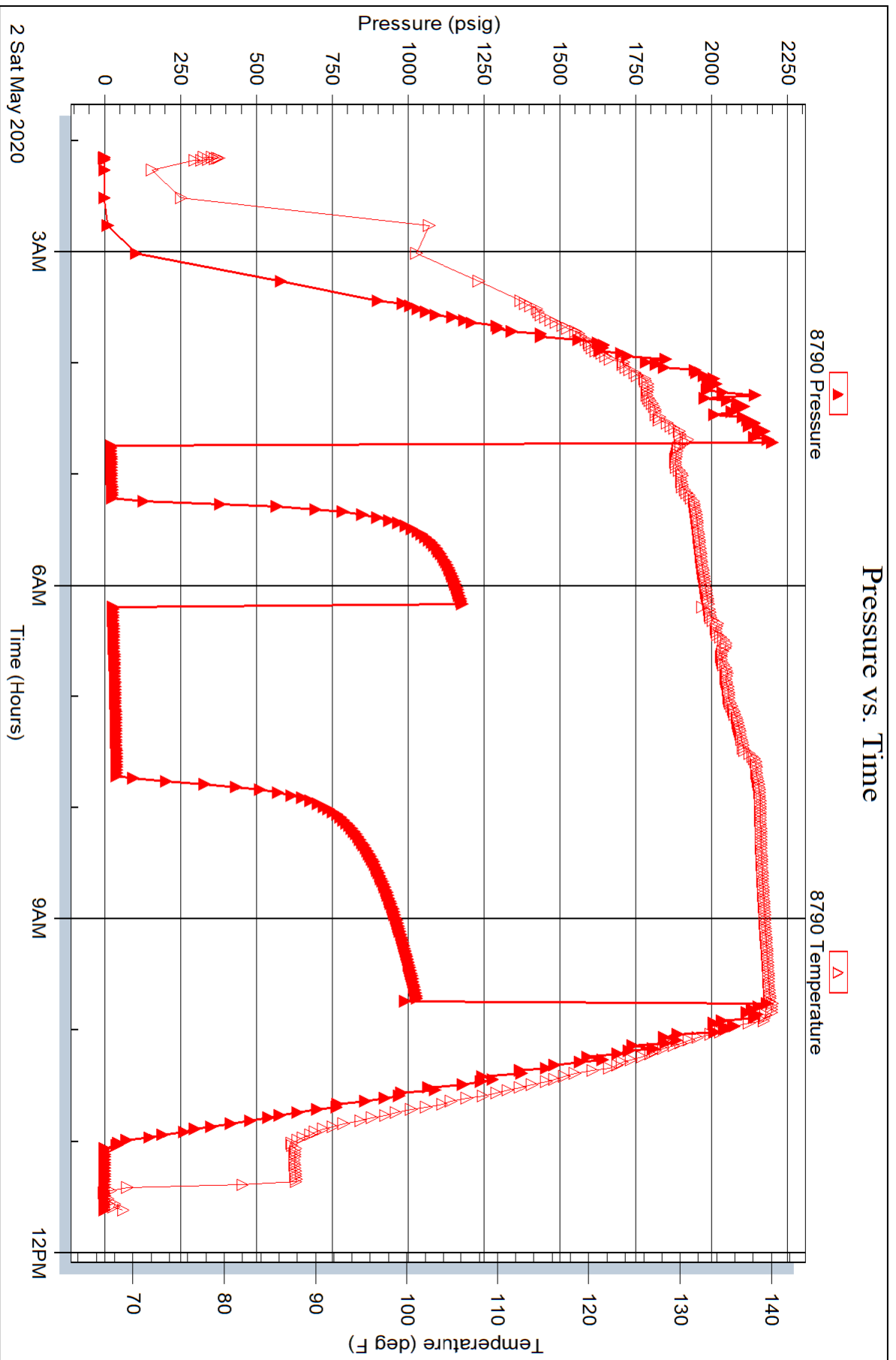
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco  
 2020 N Bramblewood  
 Wichita, KS 67206  
 ATTN: Bryan Bynog

**23-2-38 Cheyenne, Ks**

**PRR 1-22**

Job Ticket: 66630

**DST#: 2**

Test Start: 2020.05.03 @ 01:00:50

## GENERAL INFORMATION:

Formation: **B&C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:50:50  
 Time Test Ended: 10:25:20  
 Interval: **4395.00 ft (KB) To 4520.00 ft (KB) (TVD)**  
 Total Depth: 4520.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3456.00 ft (KB)  
 3448.00 ft (CF)  
 KB to GR/CF: 8.00 ft

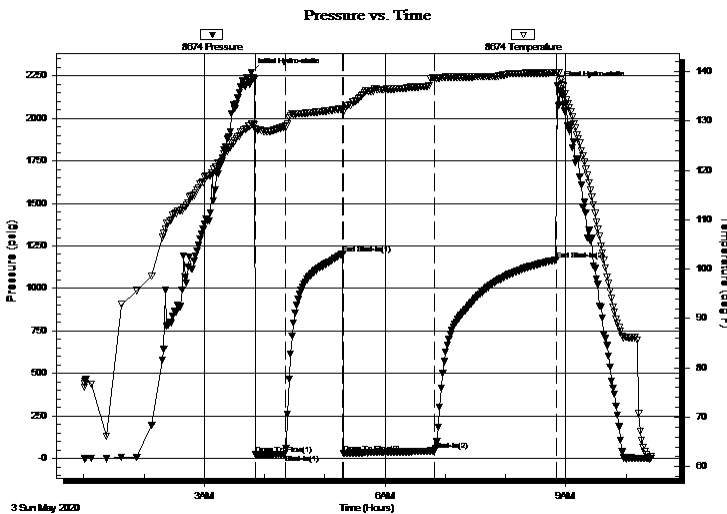
**Serial #: 8674**

**Outside**

Press@RunDepth: 47.29 psig @ 4396.00 ft (KB)  
 Start Date: 2020.05.03 End Date: 2020.05.03  
 Start Time: 01:00:55 End Time: 10:25:20  
 Capacity: 8000.00 psig  
 Last Calib.: 2020.05.03  
 Time On Btm: 2020.05.03 @ 03:46:50  
 Time Off Btm: 2020.05.03 @ 08:51:20

**TEST COMMENT:** IF: 1" blow built to 2 1/2  
 IS: No return.  
 FF: Surface blow built to 1 3/4.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.22	129.36	Initial Hydro-static
4	22.44	128.36	Open To Flow (1)
34	25.16	128.91	Shut-In(1)
91	1203.25	132.49	End Shut-In(1)
92	30.51	132.04	Open To Flow (2)
183	47.29	138.80	Shut-In(2)
304	1167.89	139.86	End Shut-In(2)
305	2194.30	139.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
67.00	mud 100%m	0.94

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

Berexco  
2020 N Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

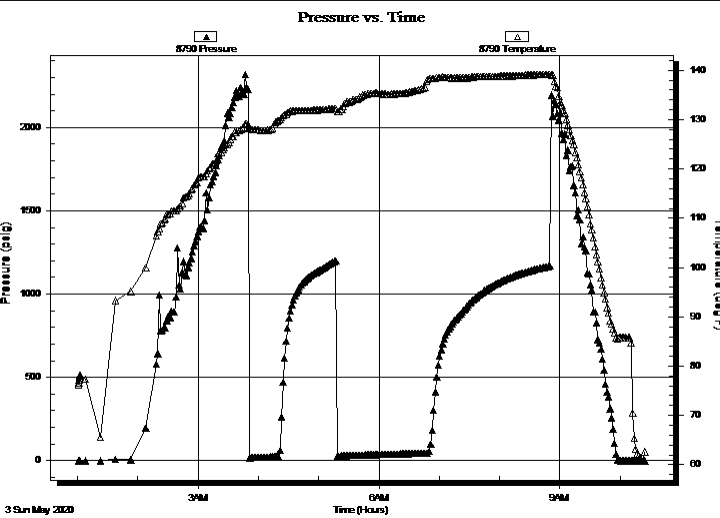
**23-2-38 Cheyenne, Ks**  
**PRR 1-22**  
Job Ticket: 66630      **DST#: 2**  
Test Start: 2020.05.03 @ 01:00:50

## GENERAL INFORMATION:

Formation: **B&C**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 03:50:50      Tester: Brandon Turley  
Time Test Ended: 10:25:20      Unit No: 79  
**Interval: 4395.00 ft (KB) To 4520.00 ft (KB) (TVD)**      Reference Elevations: 3456.00 ft (KB)  
Total Depth: 4520.00 ft (KB) (TVD)      3448.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 8.00 ft

**Serial #: 8790**      **Inside**  
Press@RunDepth:      psig @      4396.00 ft (KB)      Capacity:      8000.00 psig  
Start Date:      2020.05.03      End Date:      2020.05.03      Last Calib.:      2020.05.03  
Start Time:      01:01:01      End Time:      10:25:26      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: 1" blow built to 2 1/2  
IS: No return.  
FF: Surface blow built to 1 3/4.  
FS: No return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
67.00	mud 100% m	0.94

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Berexco

**23-2-38 Cheyenne, Ks**

2020 N Bramblewood  
Wichita, KS 67206

**PRR 1-22**

Job Ticket: 66630

**DST#: 2**

ATTN: Bryan Bynog

Test Start: 2020.05.03 @ 01:00:50

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
67.00	mud 100%m	0.940

Total Length: 67.00 ft      Total Volume: 0.940 bbl

Num Fluid Samples: 0

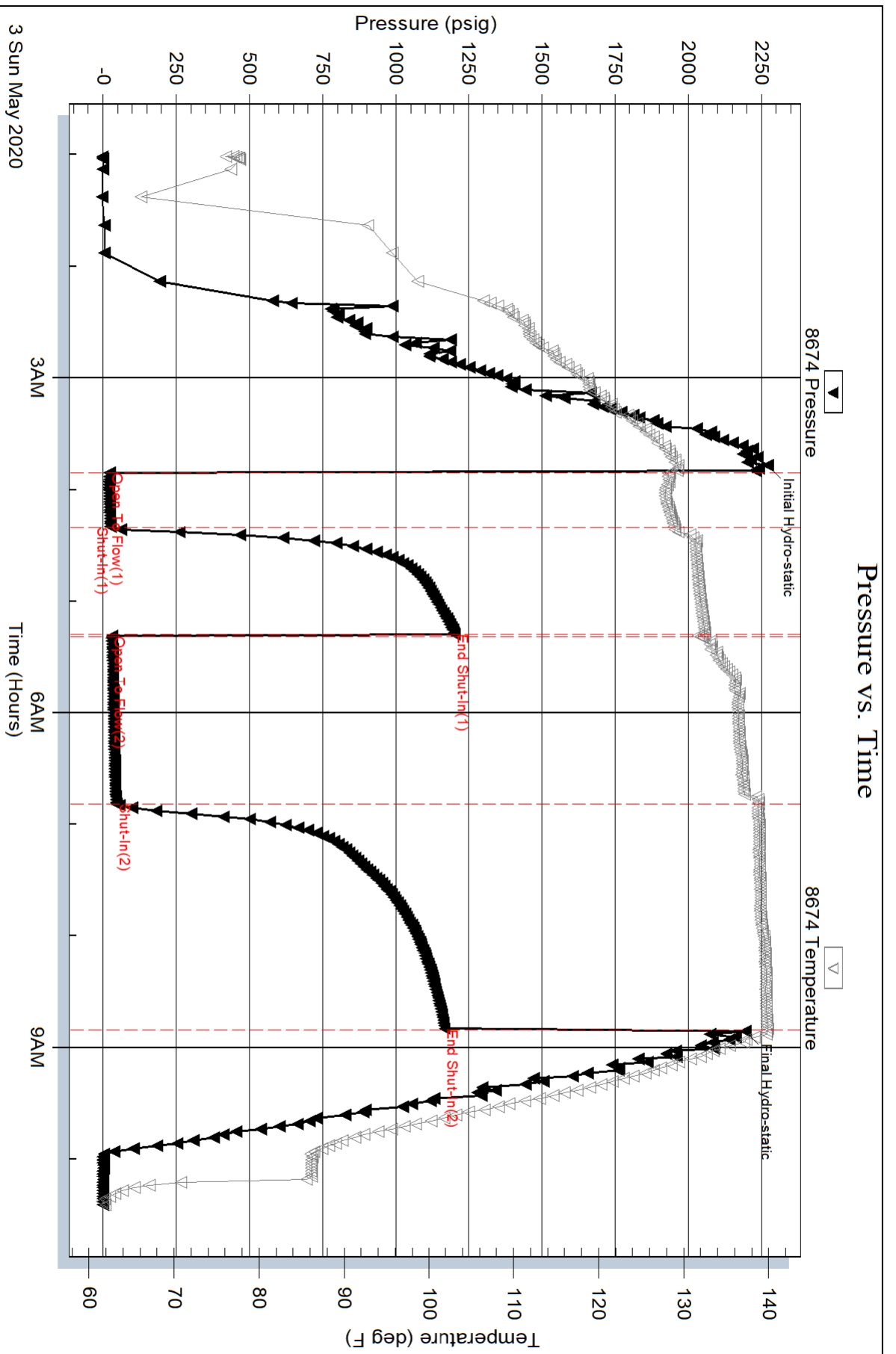
Num Gas Bombs: 0

Serial #:

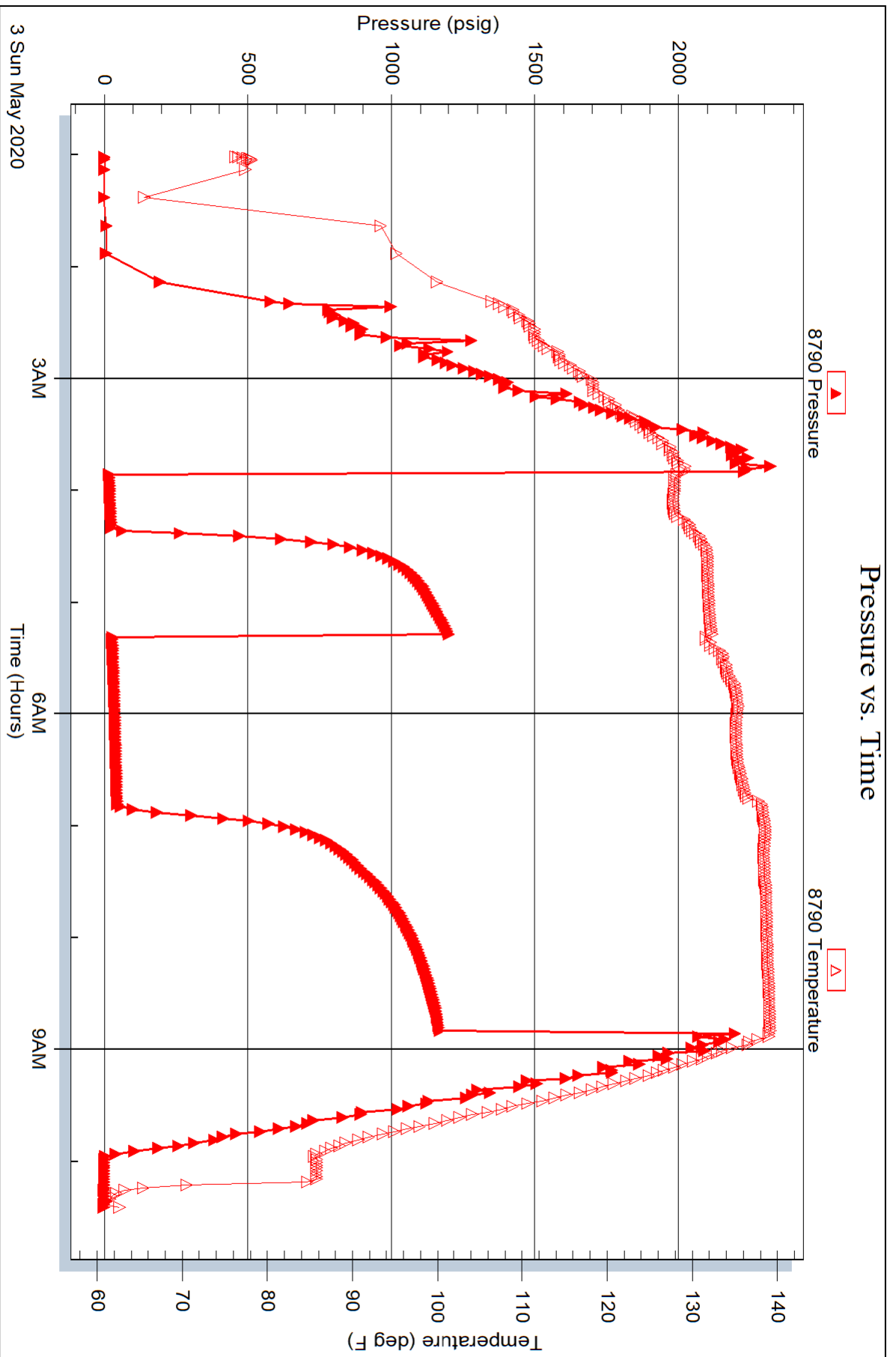
Laboratory Name:

Laboratory Location:

Recovery Comments:









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco  
 2020 N Bramblewood  
 Wichita, KS 67206  
 ATTN: Bryan Bynog

**23-2-38 Cheyenne, KS**

**PRR #1-22**

Job Ticket: 66631

**DST#: 3**

Test Start: 2020.05.03 @ 23:33:01

## GENERAL INFORMATION:

Formation: **D-E**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 02:01:31 Tester: Brandon Turley  
 Time Test Ended: 08:45:01 Unit No: 79  
 Interval: **4515.00 ft (KB) To 4610.00 ft (KB) (TVD)** Reference Elevations: 3456.00 ft (KB)  
 Total Depth: 4610.00 ft (KB) (TVD) 3448.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

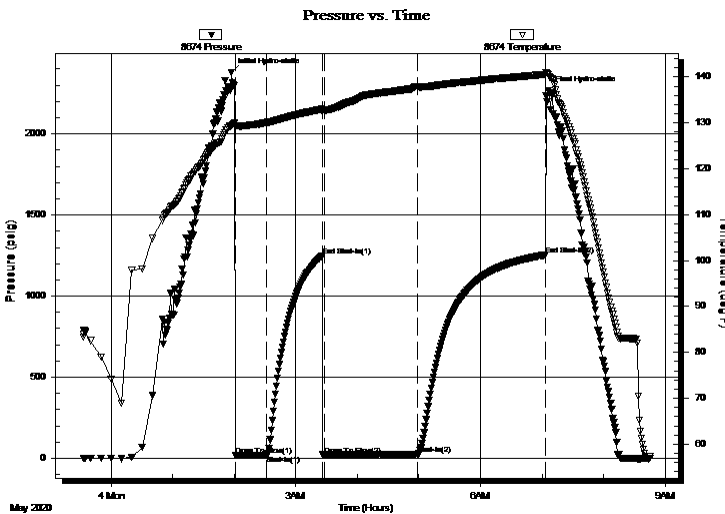
**Serial #: 8674**

**Outside**

Press@RunDepth: 24.40 psig @ 4516.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.05.03 End Date: 2020.05.04 Last Calib.: 2020.05.04  
 Start Time: 23:33:06 End Time: 08:45:01 Time On Btm: 2020.05.04 @ 01:57:01  
 Time Off Btm: 2020.05.04 @ 07:06:01

**TEST COMMENT:** IF: 1" blow built to 3 3/4"  
 IS: No return.  
 FF: Surface blow built to 1/2"  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2378.88	129.35	Initial Hydro-static
5	18.78	129.39	Open To Flow (1)
34	20.89	130.07	Shut-In(1)
89	1247.05	133.01	End Shut-In(1)
91	21.05	132.80	Open To Flow (2)
182	24.40	137.84	Shut-In(2)
307	1253.74	140.58	End Shut-In(2)
309	2266.76	140.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%m	0.42

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco  
 2020 N Bramblewood  
 Wichita, KS 67206  
 ATTN: Bryan Bynog

**23-2-38 Cheyenne, KS**

**PRR #1-22**

Job Ticket: 66631

**DST#: 3**

Test Start: 2020.05.03 @ 23:33:01

## GENERAL INFORMATION:

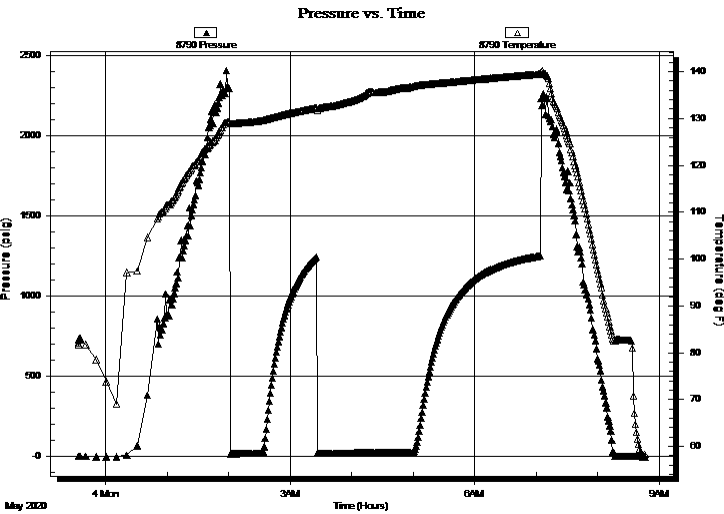
Formation: **D-E**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 02:01:31 Tester: Brandon Turley  
 Time Test Ended: 08:45:01 Unit No: 79  
 Interval: **4515.00 ft (KB) To 4610.00 ft (KB) (TVD)** Reference Elevations: 3456.00 ft (KB)  
 Total Depth: 4610.00 ft (KB) (TVD) 3448.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8790

Inside

Press@RunDepth: psig @ 4516.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.05.03 End Date: 2020.05.04 Last Calib.: 2020.05.04  
 Start Time: 23:33:43 End Time: 08:45:38 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: 1" blow built to 3 3/4"  
 IS: No return.  
 FF: Surface blow built to 1/2"  
 FS: No return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100% m	0.42

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Berexco

**23-2-38 Cheyenne,KS**

2020 N Bramblewood  
Wichita, KS 67206

**PRR #1-22**

Job Ticket: 66631

**DST#: 3**

ATTN: Bryan Bynog

Test Start: 2020.05.03 @ 23:33:01

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100%m	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

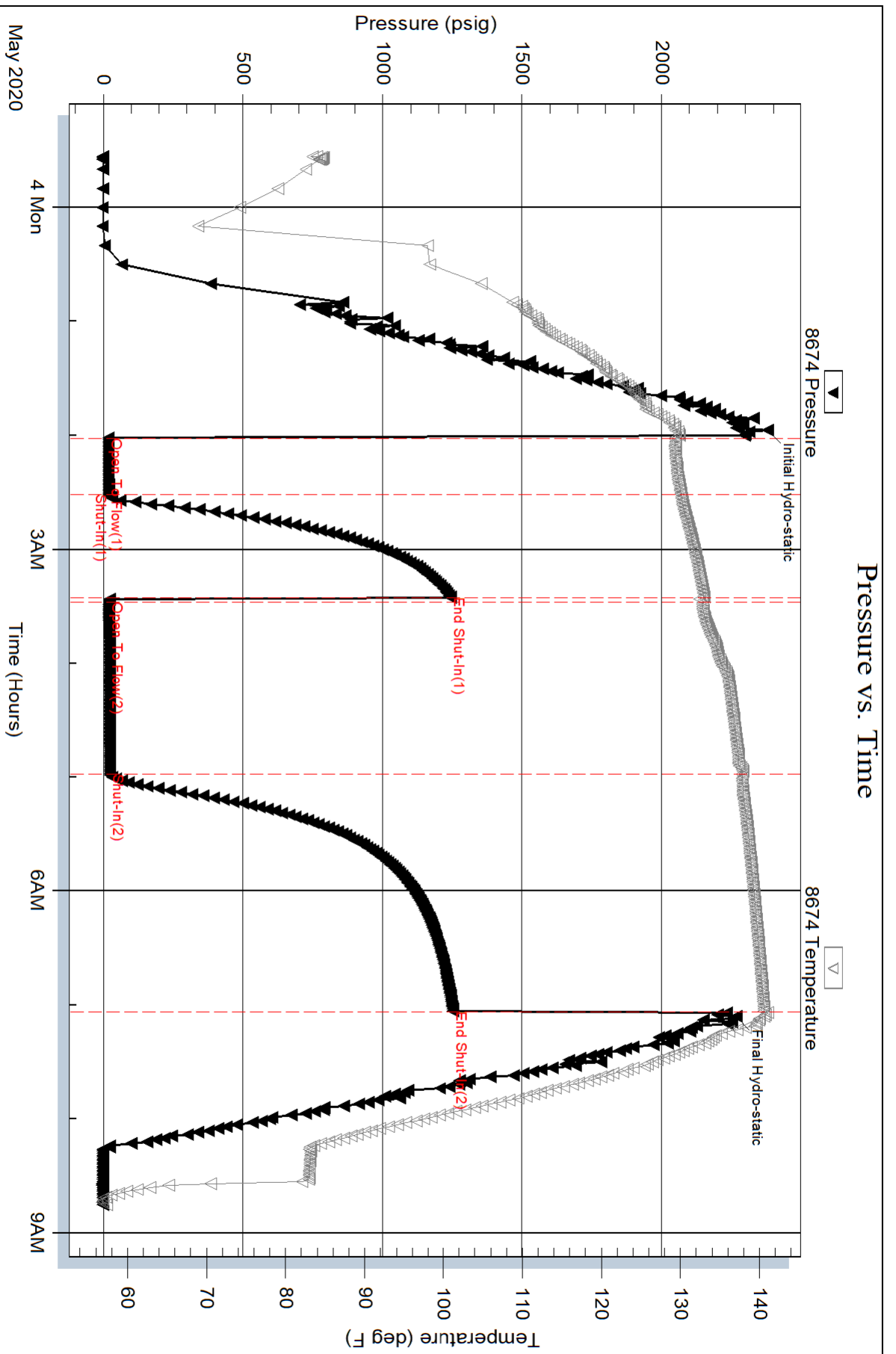
Num Gas Bombs: 0

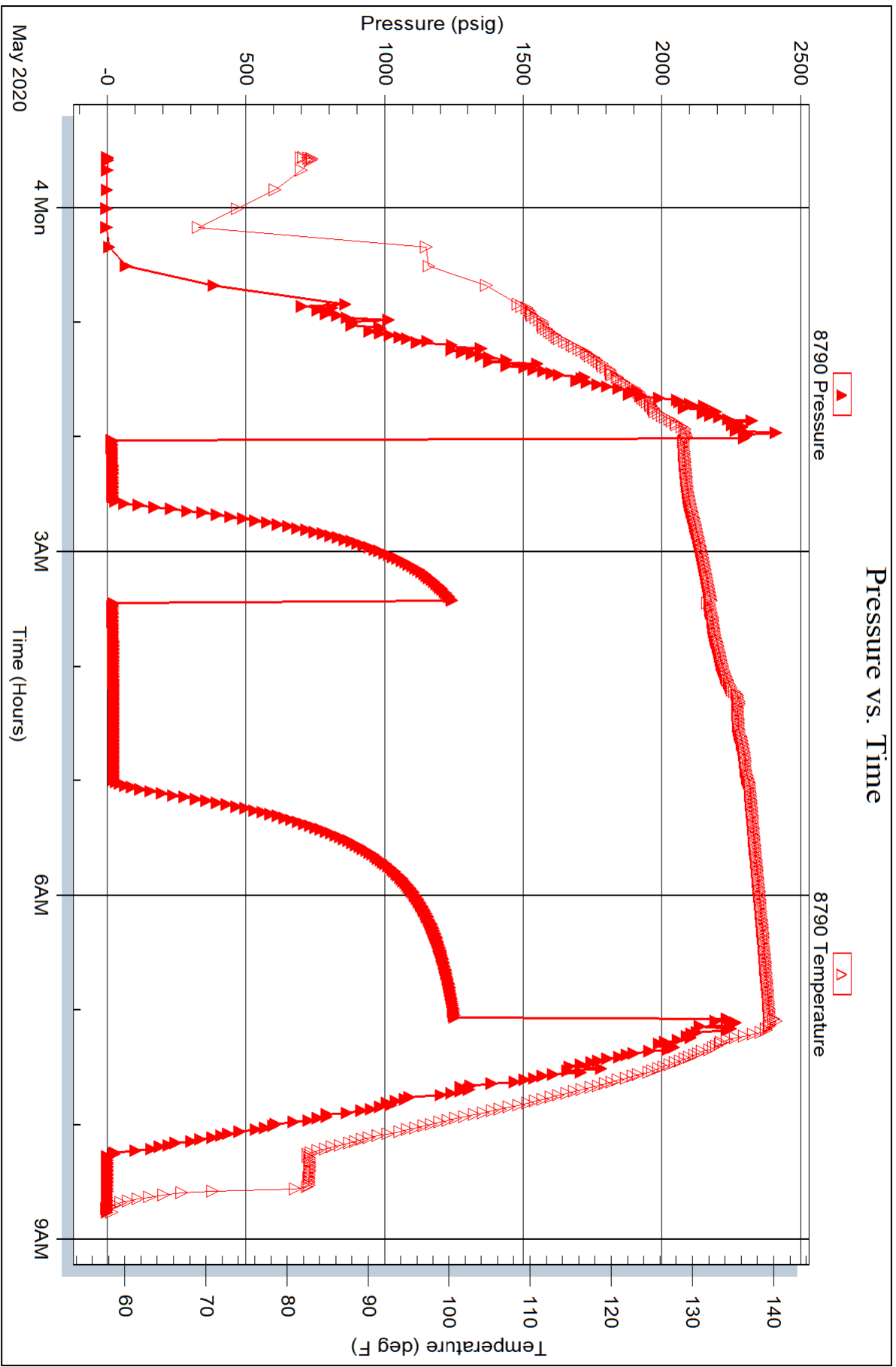
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco  
2020 N Bramblewood  
Wichita, KS 67206  
ATTN: Bryan Bynog

**22-2-38 Cheyenne, Ks**

**PRR 1-22**

Job Ticket: 66632

**DST#: 4**

Test Start: 2020.05.05 @ 09:29:48

## GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:50:48  
 Time Test Ended: 17:02:48  
 Interval: **4760.00 ft (KB) To 4840.00 ft (KB) (TVD)**  
 Total Depth: 4840.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3456.00 ft (KB)  
 3448.00 ft (CF)  
 KB to GR/CF: 8.00 ft

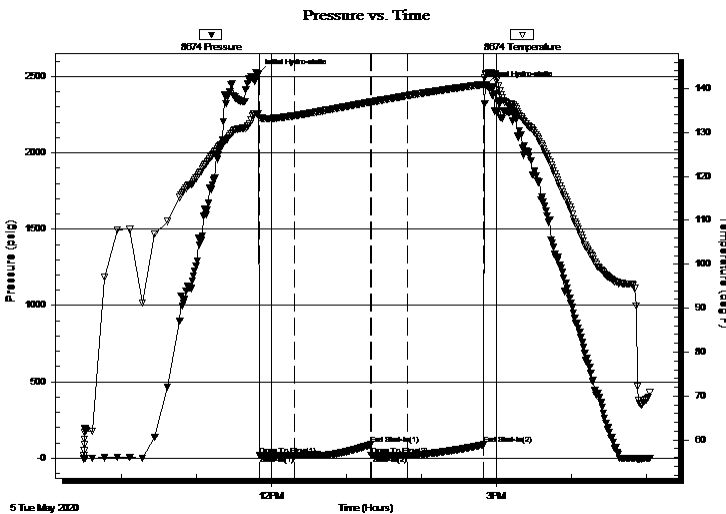
## Serial #: 8674

**Outside**

Press@RunDepth: 17.45 psig @ 4765.00 ft (KB)  
 Start Date: 2020.05.05 End Date: 2020.05.05  
 Start Time: 09:29:53 End Time: 17:02:47  
 Capacity: 8000.00 psig  
 Last Calib.: 2020.05.05  
 Time On Btm: 2020.05.05 @ 11:49:48  
 Time Off Btm: 2020.05.05 @ 14:51:18

TEST COMMENT: IF: 1" blow died in 20 mins.  
 IS: No return.  
 FF: No blow.  
 FS: No return. 30-60-30-60

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2516.41	134.25	Initial Hydro-static
1	16.96	133.40	Open To Flow (1)
29	16.74	133.82	Shut-In(1)
90	87.92	136.93	End Shut-In(1)
90	17.45	136.96	Open To Flow (2)
120	17.45	138.42	Shut-In(2)
180	87.90	140.97	End Shut-In(2)
182	2443.88	143.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco  
 2020 N Bramblewood  
 Wichita, KS 67206  
 ATTN: Bryan Bynog

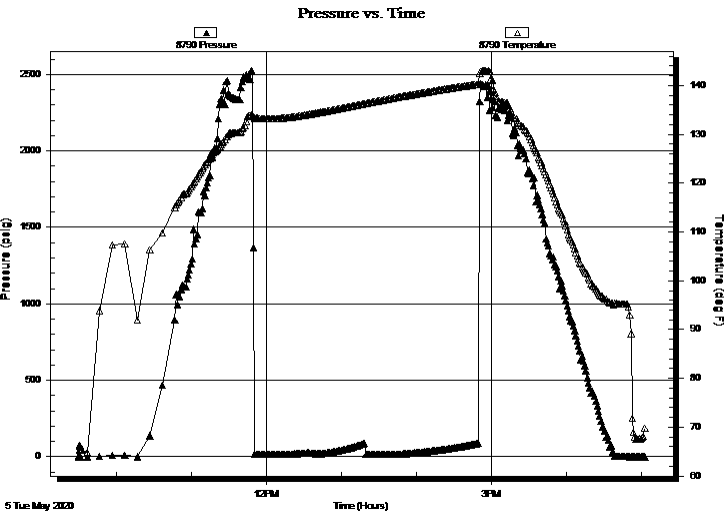
**22-2-38 Cheyenne, Ks**  
**PRR 1-22**  
 Job Ticket: 66632      **DST#: 4**  
 Test Start: 2020.05.05 @ 09:29:48

## GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 11:50:48 Tester: Brandon Turley  
 Time Test Ended: 17:02:48 Unit No: 79  
 Interval: **4760.00 ft (KB) To 4840.00 ft (KB) (TVD)** Reference Elevations: 3456.00 ft (KB)  
 Total Depth: 4840.00 ft (KB) (TVD) 3448.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8790**      **Inside**  
 Press@RunDepth: psig @ 4765.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.05.05 End Date: 2020.05.05 Last Calib.: 2020.05.05  
 Start Time: 09:29:24 End Time: 17:02:18 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: 1" blow died in 20 mins.  
 IS: No return.  
 FF: No blow.  
 FS: No return. 30-60-30-60



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.07

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco

**22-2-38 Cheyenne, Ks**

2020 N Bramblewood  
Wichita, KS 67206

**PRR 1-22**

Job Ticket: 66632

**DST#: 4**

ATTN: Bryan Bynog

Test Start: 2020.05.05 @ 09:29:48

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 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	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

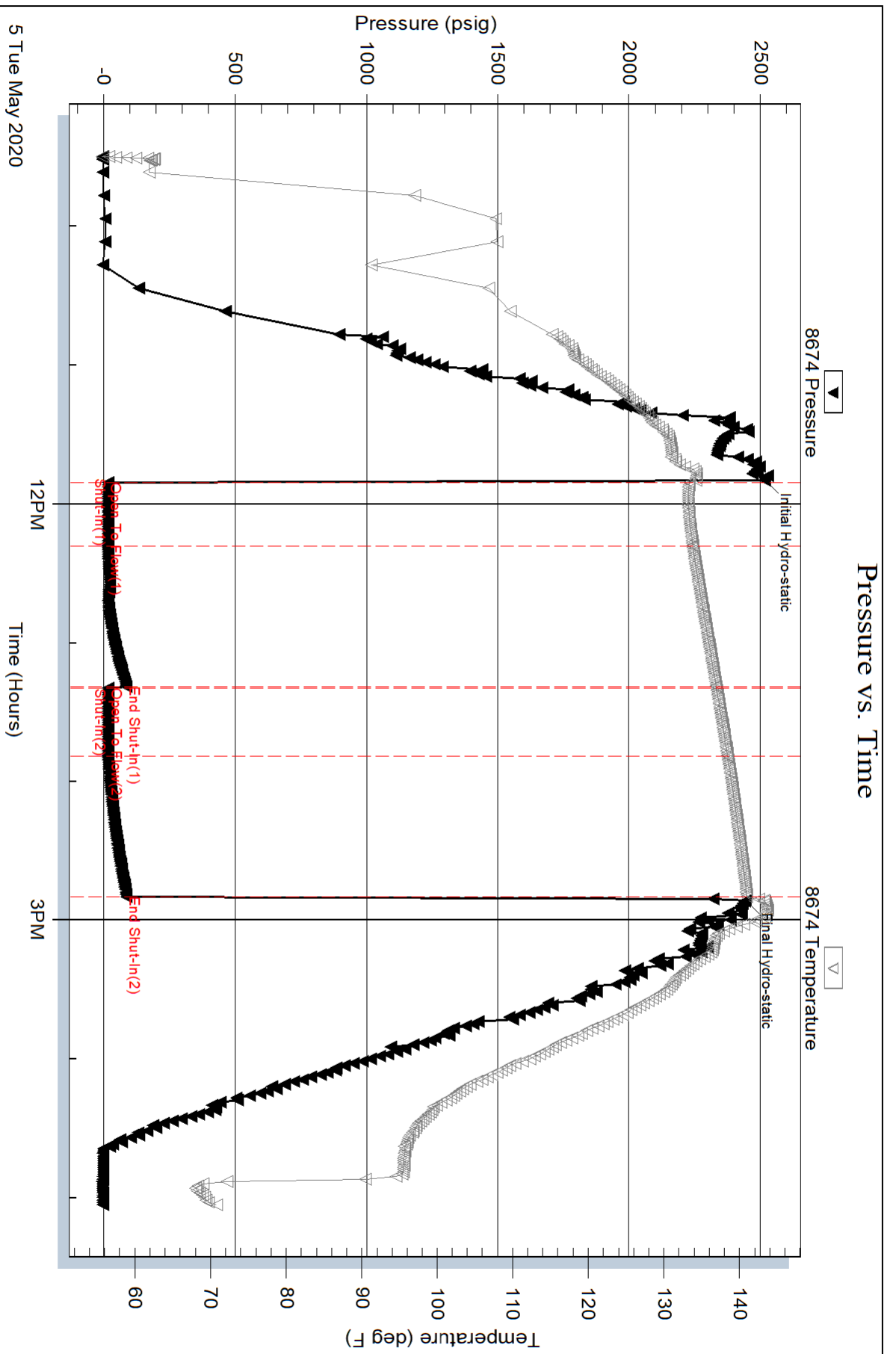
Num Gas Bombs: 0

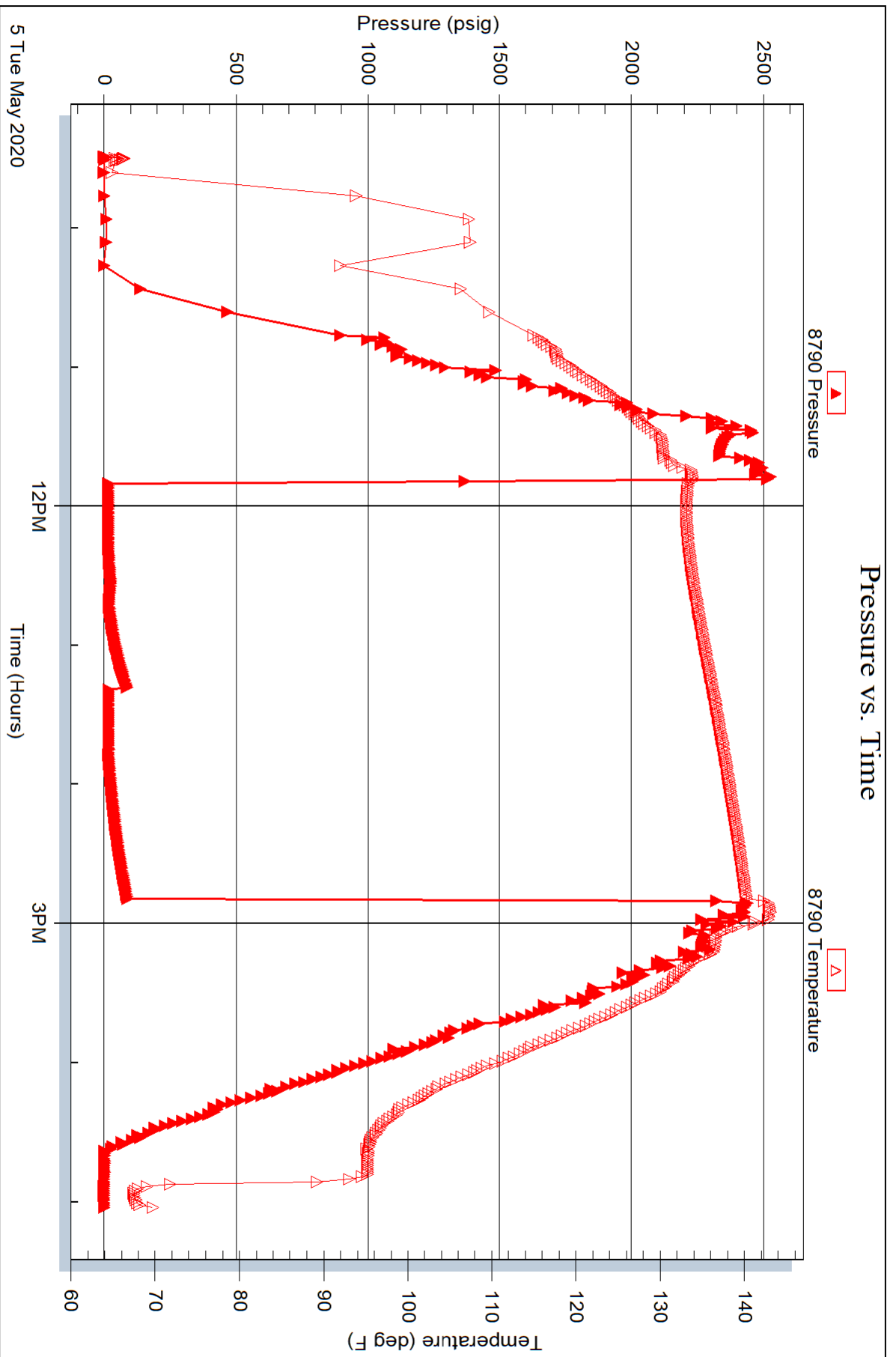
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: PRR #1-22  
Well Id:  
Location: S2S2SE 2S-38W CHEYENNE COUNTY, KANSAS  
License Number: 15-023-21540  
Spud Date: 3-3-2020  
Surface Coordinates: 330' FSL & 1320' FEL  
Region: MID-CONTINENT  
Drilling Completed: 5-7-2020

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 3448  
Logged Interval (ft): 3600 To: 5058  
Formation: LKC, PAWNEE, FT SCOTT & CHEROKEE  
Type of Drilling Fluid: WBM

K.B. Elevation (ft): 3456

Total Depth (ft): 5058

Printed by WellSight LogViewer from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

Company: BEREXCO, LLC.  
Address: 2020 N. Bramblewood  
Wichita, Kansas 67206

### GEOLOGIST

Name: William B. Bynog  
Company:  
Address: P.O.Box 687  
Pinecliffe, Co. 80471

### SURVEYS & FORMATION TOPS

DEPTH	ANGLE	FORMATION TOPS (LOG)
3586'	.25	ANHYDRITE 3346(+110) FORAKER 3926(-470) TOPEKA 4156(-700) OREAD 4308(-852) LANSING A 4377(-921) B 4444(-988) C 4500(-1044) D 4538(-1082) E 4602(-1146) F 4634(-1178) PAWNEE 4752(-1296) FT. SCOTT 4793(-1337) CHEROKEE 4860(-1404)

### DSTs

DST#1 4330-4420, DST#2 4395-4520, DST#3 4515-4610, DST#4 4760-4840

### Remarks

DRY HOLE

### ROCK TYPES

 Anhy	 Coal	 Lmst	 Shcol
 Bent	 Congl	 Meta	 Shgy
 Brec	 Dol	 Mrlst	 Sltst
 Cht	 Gyp	 Salt	 Ss
 Clyst	 Igne	 Shale	 Till

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral

- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

### OTHER SYMBOLS

#### POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

#### OIL SHOW

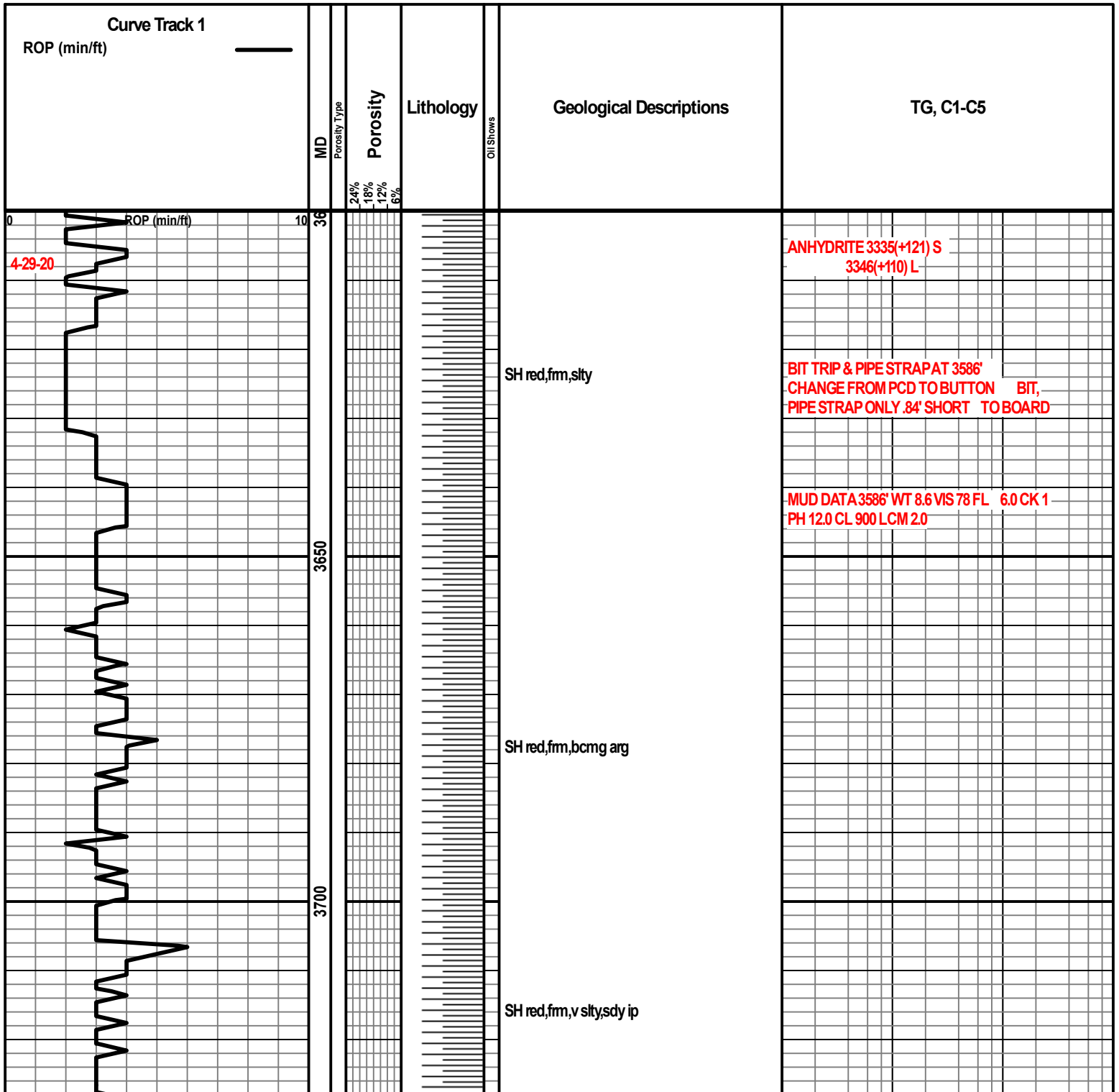
- Even
- Spotted
- Ques
- Dead

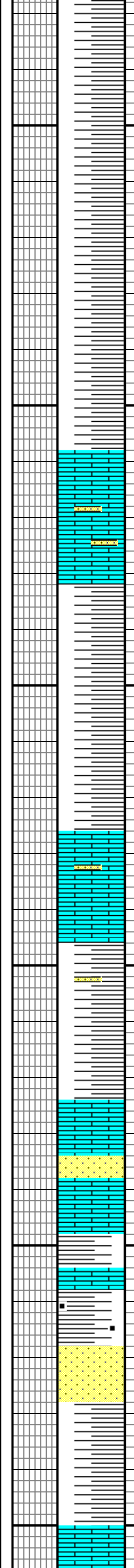
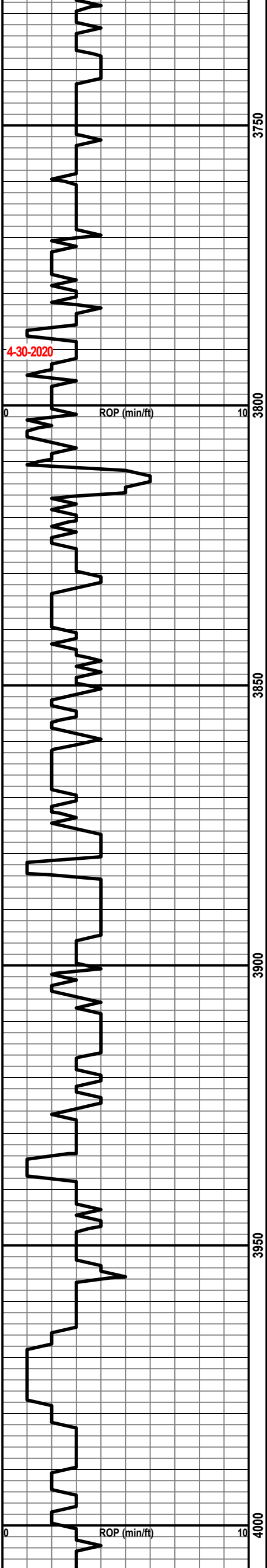
#### INTERVAL

- Dst
- Dst mis-run

#### EVENT

- Rft
- Sidewall





SH red, fm, bcmg v arg

LS pale gy, hd, blk, dns, p por, some sdy ip, ns

SH red, sft, v arg

LS cm, hd, dns, p vis por, sdy ip, vfg, p por, ns

SH red, fm, arg, some sdy ip

LS cm, sl hd, sl chk, sdy ip, p vis por, ns

SS wh, fm, vfg, chky, p por, ns

LS cm, hd, blk, dns, p por, ns

SH gy, fm, foss, limy, some blk, carb with thin LS aa

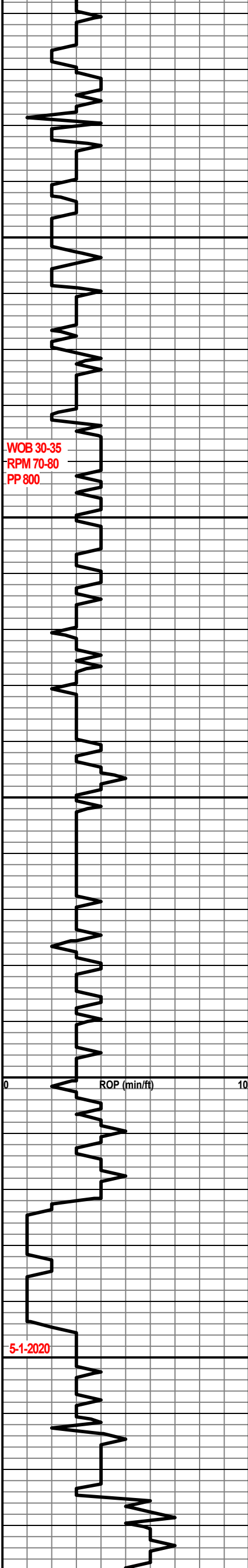
SS wh, fm, vfg, v chk, p por, ns

SH gy, red, sft, v arg

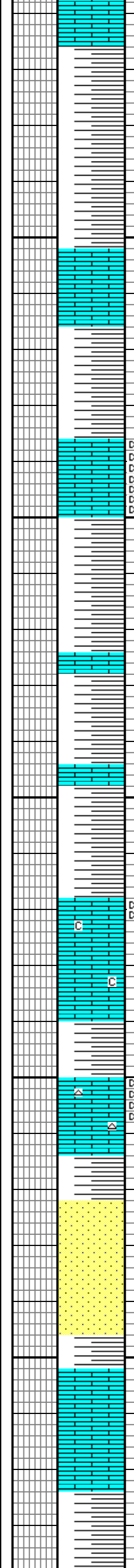
LS cm, hd, dirty, p por, ns

MUD DATA 3854' WT 8.8 VIS 93 FL 6.0 CK 2  
PH 11.0 CL 2000 LCM 1.0

FORAKER  
3925(-469) S  
3926(-470) L



4050  
4100  
4150  
4200  
4250



SH red,v sft,v arg,gummy

LS cm,pale gy,frm,foss ip,dirty,p por,ns

SH red,sft,v arg

LS wh-pale gyl hd, sbchky,p vis por,v spty blk dd stn

SH red,v sft,v arg with thin LS wh,frm,v chky

LS wh,frm,v chky-sbchky,p vis por,rare blk dd stn

SH aa

LS wh,frm,v chky,abnt CHT wh,p por,spty blk dd stn

SH aa

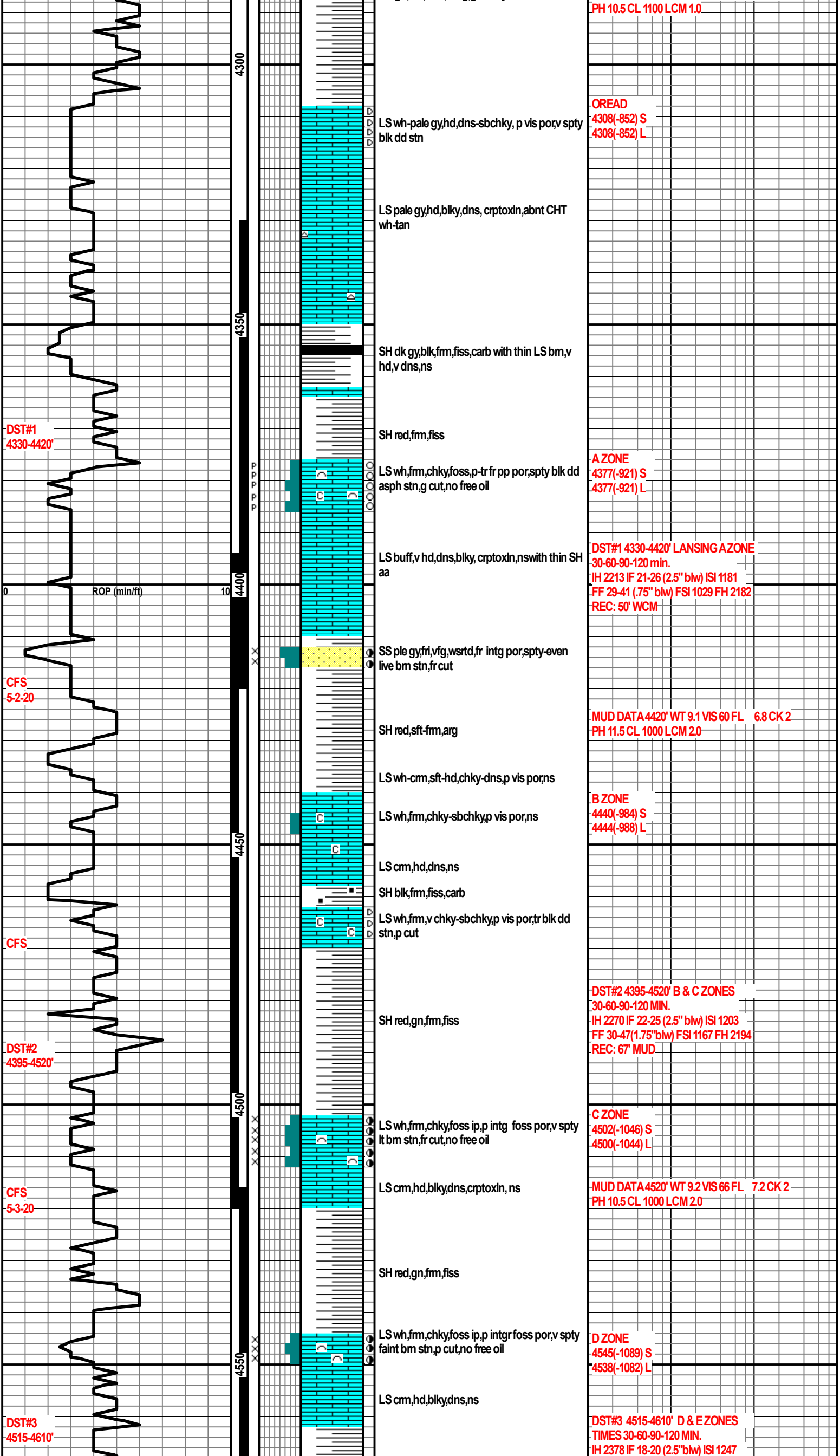
SS pale gy,frt,vfg,clay filled,p vis por,ns

SH red,sft,arg

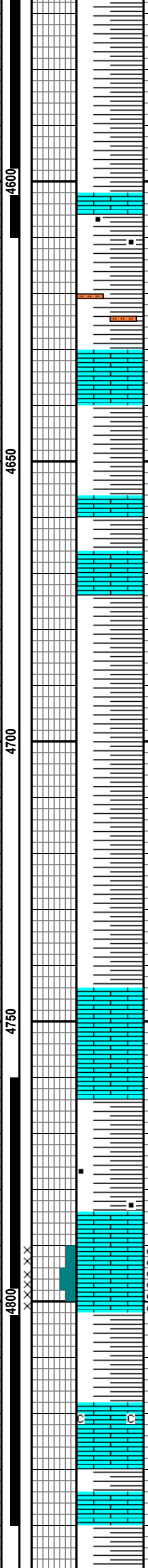
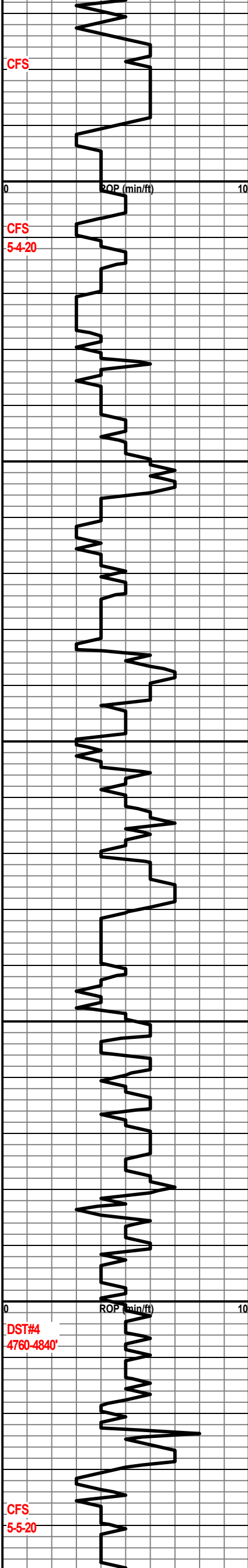
LS cm,hd,dns,v fnly xln,p por,ns

SH gn,red,v sft,v arg,gummy

TOPEKA  
4168(-712) S  
4156(-700) L







SH red,gn,frm,fiss

LS cm,hd,blk,dns,some chky,p vis por,ns

SH dk gy,gn, some blk,frm,fiss,carb

SH red,frm,v sity

LS cm,hd,blk,dns,crptoxln

SH aa

LS, SH aa

SH red,gy,gn,frm,fiss

LS wh-cm,frm,sbchky,p vis por,ns

SH red,gn,gy,frm,fiss

SH dk gy,blk,frm,fiss,s carb

LS cm,v hd,dns,blk, crptoxln,ns

GRAINSTONE wh,frm,v foss,p-fr intg foss por,spty live bm str,v g cut,fr show free oil

SH gy,blk,frm,fiss,sl carb

LS cm,v hd,dns,crptoxln,ns abnt chky

SH & LS aa

SH red,gn,frm,fiss

FF 21-24 (.5"blw) FSI 1253 FH 2266  
REC: 30' MUD

E ZONE  
4602(-1146) S  
4602(-1146) L

MUD DATA 4612' WT 9.1 VIS 64 FL 7.2 CK 2  
PH 11.0 CL 1000 LCM 2.0

F ZONE  
4630(-1174) S  
4634(-1178) L

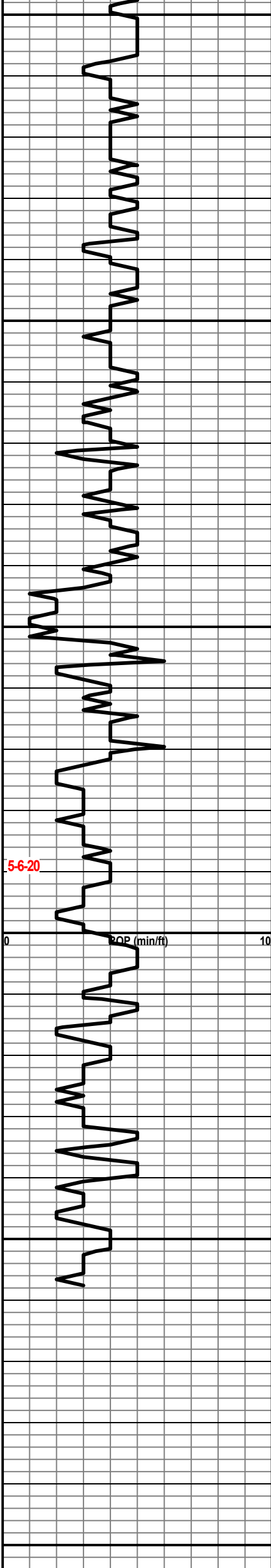
PAWNEE  
4744(-1288) S  
4752(-1296) L

FT SCOTT  
4786(-1330) S  
4780(-1324) L

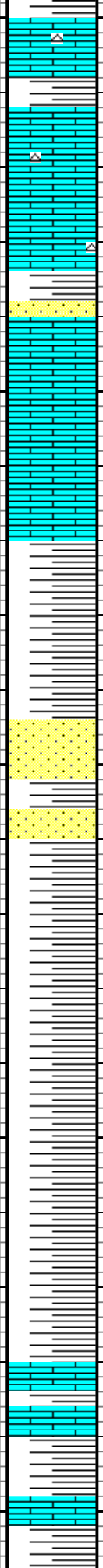
DST#4 4760-4840' PAWNEE & FT. SCOTT  
30-60-30-60  
IH 2516 IF 16-16 (1"blw) ISI 87 FF 17-17  
FSI 87 FH 2443 REC: 5' MUD

MUD DATA 4840' WT 9.5 VIS 76 FL 8.0 CK 2  
PH 10.0 CL 1000 LCM 3.0

4850  
4900  
4950  
5000  
5050  
5100



ROP (min/ft)



LS cm,hd,dns,cptoxln, abnt CHT wh,tmsl  
with thin SH aa

SS tmsl,fm,fg,msrtd,fr intg por,ns

LS wh,fm,sbchky-chky,sl foss,p vis por,ns

SH red,gn,mam,fm,fiss

SS tmsl-pale omg,fm,f-m g,srtd,fair-g intg  
por,ns

SH var col aa

SH partings aa & LS cm,hd,dns,cptoxln,ns

RTD 5058'  
LTD 5058'

CHEROKEE  
4860(-1404) S  
4860(-1404) L

MUD DATA 5017' WT 9.4 VIS 61 FL 8.0 CK 2  
PH 11.0 CL 900 LCM 2.0

