

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	MRM 4
Doc ID	1510721

All Electric Logs Run

Porosity
Induction
Microlog
Radiation Guard

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	MRM 4
Doc ID	1510721

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	4303	4306			Acidized w/ 1000 gal 15% NEFE
4	4285	4290			Acidized w/ 1000 gal 15% NEFE
4	4250	4254			Acidized w/ 1000 gal 15% NEFE
4	4130	4135			Acidized w/ 1000 gal 15% NEFE
4	4077	4080			Acidized w/ 1000 gal 15% NEFE
4	4145	4148			Acidized w/ 500 gal 15% NEFE



CEMENT TREATMENT REPORT

Customer: Berexco	Well: MRM #4	Ticket: ICT 3135
City, State:	County: Thomas, Ks	Date: 1/19/2020
Field Rep: Justin	S-T-R: 15-10s-33w	Service: Surface

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	394.37 ft
Casing Size:	8.625 in
Casing Depth:	394.37 ft
Tubing / Liner:	in
Depth:	ft
CMT left in CSG	25 feet
Depth:	ft
Displacement:	23.5 bbls

Calculated Slurry	
Weight:	14.8 # / sx
Water / Sx:	6.88 gal / sx
Yield:	1.41 ft ³ / sx
Bbls / Ft.:	0.0735
Depth:	394.37 ft
Annular Volume:	28.9862 bbls
Excess:	100%
Total Slurry:	56.9 bbls
Total Sacks:	225 sx

Product	% / #	#
Class A	100.00	21150
Poz		
Gel	2.00	423
CaCl	3.00	635
Gypsum		
Metso		
Kol Seal		
Flo Seal	0.50	106
Salt (bww)		
Total		22,313

TIME	RATE	PSI	BBLs	REMARKS
10:00 PM				On location safety meeting
				Spot in and rig up
				Run casing
				Break circulation with rig
				Hook up to cement
	4.0	250.0	5.0	Pump 5 BBL water ahead
	5.0	200.0	56.9	Mix and pump 225 sacks H325
				Stop
	4.0	200.0		Wash up and displace
	4.0	250.0		Continue displacement
				Stop
2:15 AM		150.0	23.5	Shut in well and release pressure
				Circulate 5 BBL cement to pit

CREW	UNIT	SUMMARY			
Cementer:	Jake H	77	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Cory	209	4.25 bpm	210 psi	85 bbls
Bulk #1:	Kale	294			
Bulk #2:					



HURRICANE SERVICES INC

Customer	Berexco	Lease & Well #	MRM #4	Date	1/19/2020
Service District	Oakley, Ks	County & State	Thomas, Ks	Legals S/T/R	15-10s-33w
Job Type	Surface	<input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input type="checkbox"/> YES <input type="checkbox"/> No	Job #
Equipment #	Driver	Ticket #			

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
77	Jake H	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
209	Cory	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
294	Kale	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

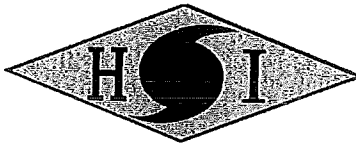
Product/ Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
0010	Cement Pump	ea	1.00				\$637.50
0012	Heavy Equipment Mileage	mi	100.00				\$34.00
0015	Light Equipment Mileage	mi	100.00				\$17.00
0020	Ton Mileage- Minimum	each	1.00				\$255.00
0025	H-325	sack	310.00				\$3,825.00
0030	Sugar	lb	8.25				\$63.75

Customer Section: On the following scale how would you rate Hurricane Services Inc ?		Gross:		Net:	\$4,832.25
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -	Tax Rate:	
<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"/>		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.		Sale Tax:	\$ -
Unlikely	1 2 3 4 5 6 7 8 9 10			Total:	\$ 4,832.25
		HSI Representative: <i>Jake Heard</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



CEMENT TREATMENT REPORT

Customer: Berexco	Well: MRM 4	Ticket: ICT 3177
City, State:	County: Thomas KS	Date: 2/3/2020
Field Rep:	S-T-R: 15-10S-33W	Service: DV Tool

Downhole Information

Hole Size:	7 7/8 in
Hole Depth:	4770 ft
Casing Size:	5 1/2 in
Casing Depth:	4754 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	DV Tool
Depth:	2643 ft
Displacement:	111.5 bbls

Calculated Slurry

Weight:	14.5 # / sx
Water / Sx:	gal / sx
Yield:	1.59 ft ³ / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	56.6 bbls
Total Sacks:	200 sx

Product	% / #	#
Class A		
Poz		
Gel		
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		
Total		

TIME	RATE	PSI	BBLs	REMARKS
600P				ON LOCATION
610P				GET THE FOLLOWING FROM CO MAN: 7 7/8 OPEN HOLE, TD 4770 FT 5 1/2 15.5 LB CASING (RACK VERIFIED), 86.12 FT SHOE J.
				DV TOOL @ 2643 FT TURBOLIZERS ON JTS 1, 3, 5, 8-18, 57, 78 BASKETS ON JTS 49, 52 DV TOOL ON JT 50
955P				CASING ON BOTTOM
1000P				CIRCULATE, MUD VIS 35
1115P	4.4	200.0	5.0	H2O AHEAD
1117P	4.4	210.0	12.0	MUDFLUSH
1120P	4.4	230.0	5.0	H2O SPACER
1122P	6.0	480.0	46.5	LEAD CEMENT 125 SKS 65/35/6
1130P	6.7	450.0	56.6	TAIL CEMENT 200 SKS THIXOTROPIC
1145P				SHUT DOWN/WASH PUMP AND LINES
1148P				DROP PLUG
1150P	5.4	260.0	25.0	DISPLACE H2O
1155P	5.4	400.0	25.0	DISPLACE H2O MUD PUMP BROKE DOWN, FINISHED DISPLACING WITH H2O
1200A	5.4	550.0	25.0	DISPLACE H2O
1205A	5.4	1,100.0	25.0	DISPLACE H2O
1210A	4.0	1,300.0	11.5	DISPLACE H2O
1213A				PLUG LANDED
1215A				CHECK FLOATS THEY HELD
1220A				DROP BOMB
1235A	3.3	900.0	5.0	OPEN TOOL
1240A				SWITCH TO RIG PUMP

CREW		UNIT	SUMMARY		
Cementer:	Jimmie Cottrell	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jesse Jones	231	4.98182 bpm	553 psi	242 bbls
Bulk #1:	John Polley	194/254			
Bulk #2:	Jeff Jackson	180/250			

Hurricane Services, Inc.
 250 N. Water
 Wichita, KS 67202



CEMENT TREATMENT REPORT

Customer: Berexco	Well: MRM 4	Ticket: ICT 3177
City, State: Oakley KS	County: Thomas KS	Date: 2/3/2020
Field Rep:	S-T-R: 15-10S-33W	Service: DV TOOL

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4770 ft
Casing Size:	5 1/2 in
Casing Depth:	4754 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	DV TOOL
Depth:	2643 ft
Displacement:	63.3 bbls

Calculated Slurry	
Weight:	13 # / sx
Water / Sx:	gal / sx
Yield:	2.09 ft ³ / sx
Bbls / Ft.:	
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	204.7 bbls
Total Sacks:	550 sx

Product	% / #	#
Class A		
Poz		
Gel		
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		

TIME	RATE	PSI	BBLs	REMARKS
				STAGE 2
240A	3.2	190.0	5.0	H2O AHEAD
242A	3.2	200.0	12.0	MUDFLUSH
246A	3.2	200.0	5.0	H2O SPACER
248A	3.2	200.0	18.6	PLUG RATHOLE 50 SKS 65/35/6
254A	6.1	400.0	186.1	CEMENT 500 SKS 65/35/6
318A				SHUT DOWN/WASH UP
320A				DROP PLUG
324A	7.0	500.0	20.0	DISPLACE H2O
327A	7.0	720.0	15.0	DISPLACE H2O
329A	7.0	960.0	15.0	DISPLACE H2O
331A	3.4	820.0	13.5	DISPLACE H2O
335A		2,050.0		PLUG LANDED
340A				RELEASE PRESSURE/TOOL CLOSED
345A				RIG DOWN
415A				LEFT LOCATION
				CIRCULATE 25 BBLs TO PIT

CREW		UNIT	SUMMARY		
Cementer:			Average Rate	Average Pressure	Total Fluid
Pump Operator:			4.81111 bpm	624 psi	290 bbls
Bulk #1:					
Bulk #2:					

Hurricane Services, Inc.
 250 N. Water
 Wichita, KS 67202



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

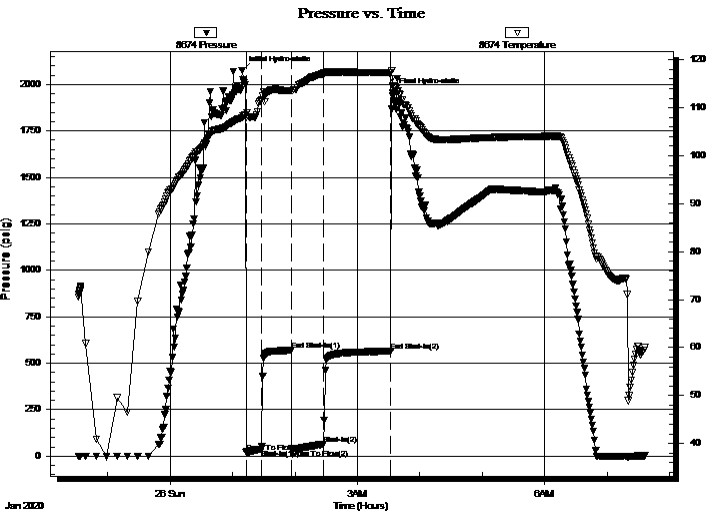
15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66142 **DST#: 1**
Test Start: 2020.01.25 @ 22:31:59

GENERAL INFORMATION:

Formation: **Lansing A-B**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 01:12:59 Tester: Brandon Turley
Time Test Ended: 07:35:59 Unit No: 79
Interval: 4085.00 ft (KB) To 4140.00 ft (KB) (TVD) Reference Elevations: 3154.00 ft (KB)
Total Depth: 4140.00 ft (KB) (TVD) 3147.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8674 Outside
Press@RunDepth: 63.40 psig @ 4086.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.01.25 End Date: 2020.01.26 Last Calib.: 2020.01.26
Start Time: 22:32:04 End Time: 07:35:59 Time On Btm: 2020.01.26 @ 01:08:59
Time Off Btm: 2020.01.26 @ 03:33:29

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



PRESSURE SUMMARY

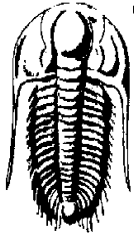
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.30	107.85	Initial Hydro-static
4	22.62	107.94	Open To Flow (1)
19	36.04	111.62	Shut-In(1)
48	570.30	113.60	End Shut-In(1)
48	38.63	113.56	Open To Flow (2)
78	63.40	117.13	Shut-In(2)
143	564.36	117.36	End Shut-In(2)
145	1956.09	116.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	ocm 10%o 90% m	1.26
1.00	free oil 100%o	0.01

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks

MRM #4

Job Ticket: 66142

DST#: 1

Test Start: 2020.01.25 @ 22:31:59

GENERAL INFORMATION:

Formation: **Lansing A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:12:59

Time Test Ended: 07:35:59

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4085.00 ft (KB) To 4140.00 ft (KB) (TVD)

Reference Elevations: 3154.00 ft (KB)

Total Depth: 4140.00 ft (KB) (TVD)

3147.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8790 **Inside**

Press@RunDepth: psig @ 4086.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.01.25

End Date:

2020.01.26

Last Calib.:

2020.01.26

Start Time: 22:31:51

End Time:

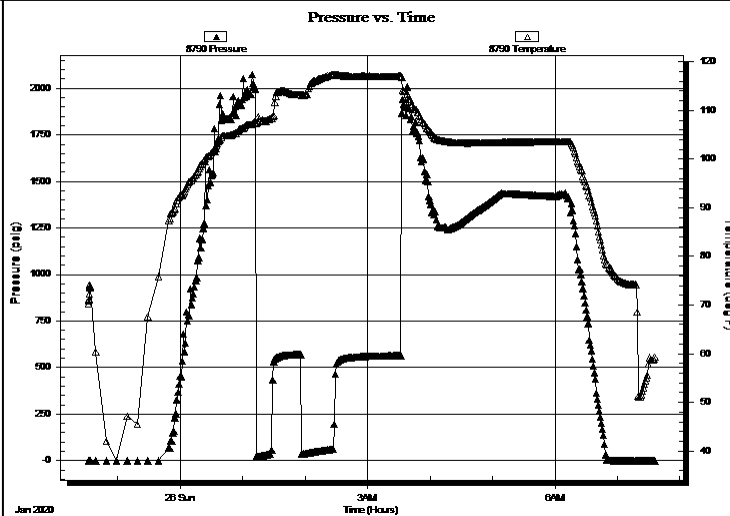
07:35:46

Time On Btm:

Time Off Btm:

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

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	ocm 10%o 90%m	1.26
1.00	free oil 100%o	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66142 **DST#: 1**
Test Start: 2020.01.25 @ 22:31:59

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: 65.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1800.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

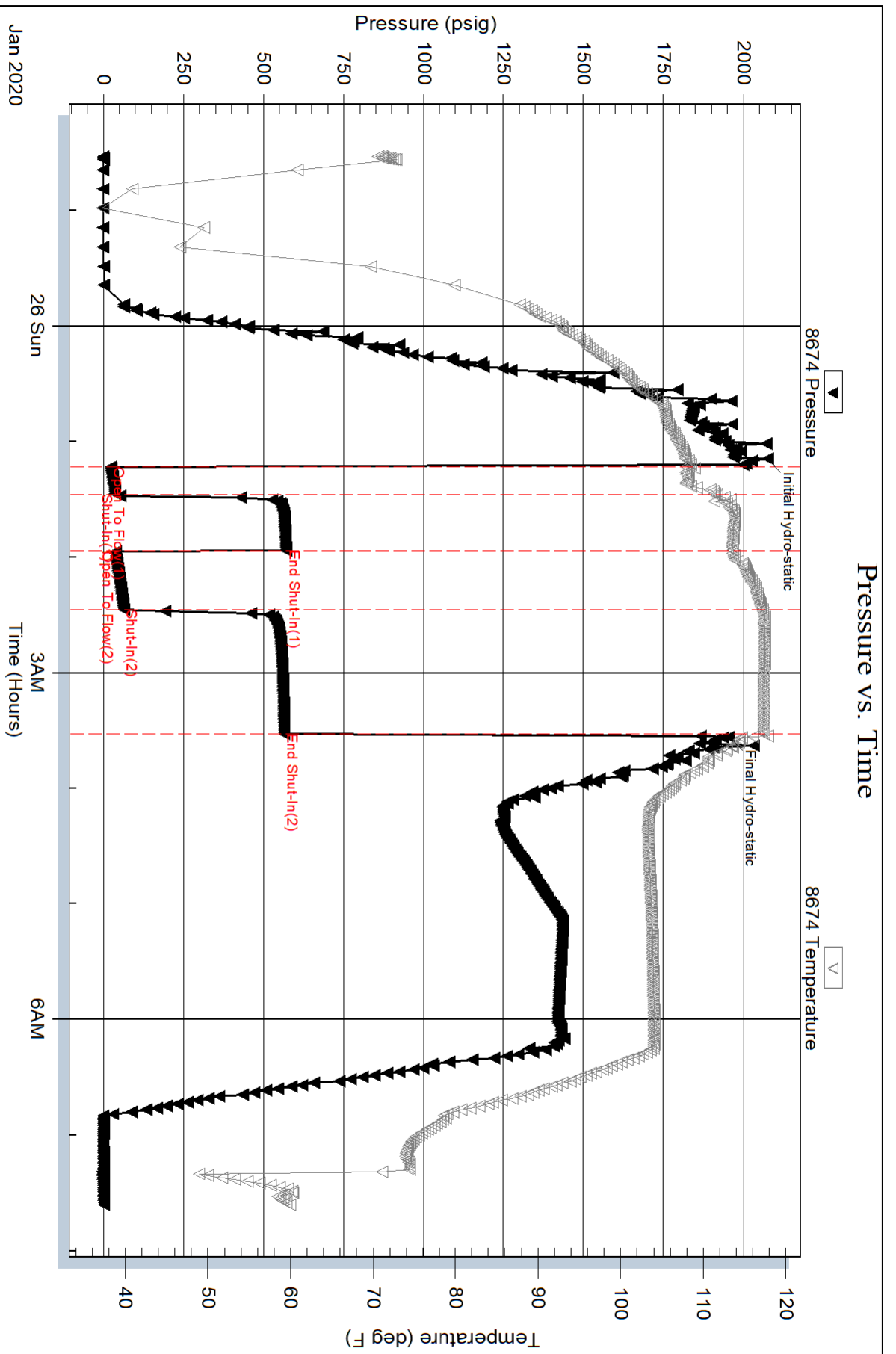
Length ft	Description	Volume bbl
90.00	ocm 10%o 90%m	1.262
1.00	free oil 100%o	0.014

Total Length: 91.00 ft Total Volume: 1.276 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



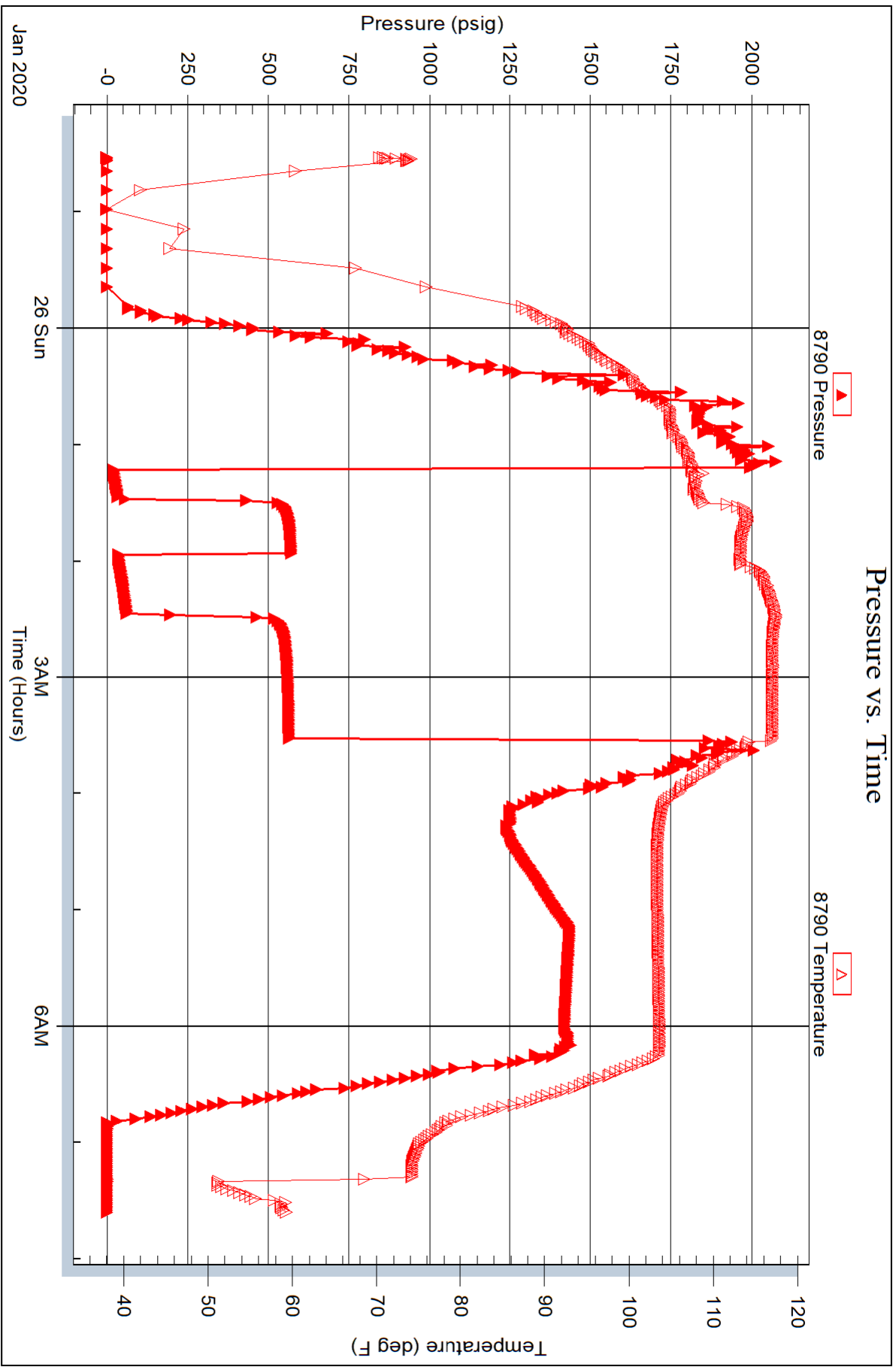
Serial #: 8790

Inside

Bereco LLC

MRM#4

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bereco LLC
 2020 N Brambeew ood
 Wichita, Ks 67206
 ATTN: Bryan Bynog

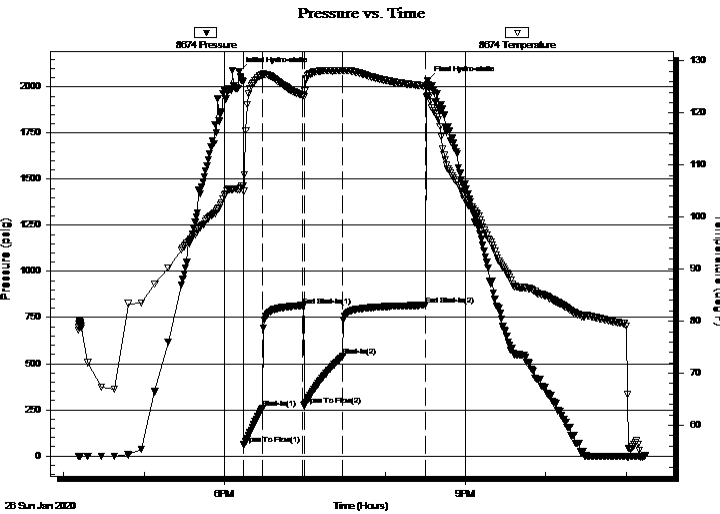
15-10s-33w Thomas, Ks
MRM #4
 Job Ticket: 66143 **DST#: 2**
 Test Start: 2020.01.26 @ 16:10:54

GENERAL INFORMATION:

Formation: **C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:14:24
 Time Test Ended: 23:14:24
 Interval: **4138.00 ft (KB) To 4160.00 ft (KB) (TVD)**
 Total Depth: 4160.00 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: 3154.00 ft (KB)
 3147.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8674 Outside
 Press@RunDepth: 539.65 psig @ 4139.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.01.26 End Date: 2020.01.26 Last Calib.: 2020.01.26
 Start Time: 16:10:59 End Time: 23:14:23 Time On Btm: 2020.01.26 @ 18:10:54
 Time Off Btm: 2020.01.26 @ 20:31:24

TEST COMMENT: IF: BOB in 2 min. 50"
 IS: No return.
 FF: BOB in 3 min. 65"
 FS: No return. 15-30-30-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2083.19	105.33	Initial Hydro-static
4	63.67	104.93	Open To Flow (1)
18	256.52	127.31	Shut-In(1)
48	814.59	123.43	End Shut-In(1)
49	272.40	123.13	Open To Flow (2)
78	539.65	128.08	Shut-In(2)
139	816.24	125.16	End Shut-In(2)
141	2032.05	123.39	Final Hydro-static

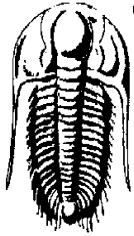
Recovery

Length (ft)	Description	Volume (bbl)
248.00	water 100%w	3.48
558.00	ocmw 5%o 90%w 5%m	7.83
331.00	ocmw 10%o 55%w 40%m	4.64
10.00	free oil 100%o	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bereco LLC

15-10s-33w Thomas, Ks

2020 N Brambeew ood
Wichita, Ks 67206

MRM #4

ATTN: Bryan Bynog

Job Ticket: 66143

DST#: 2

Test Start: 2020.01.26 @ 16:10:54

GENERAL INFORMATION:

Formation: **C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:14:24
 Time Test Ended: 23:14:24
 Interval: **4138.00 ft (KB) To 4160.00 ft (KB) (TVD)**
 Total Depth: 4160.00 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: 3154.00 ft (KB)
 3147.00 ft (CF)
 KB to GR/CF: 7.00 ft

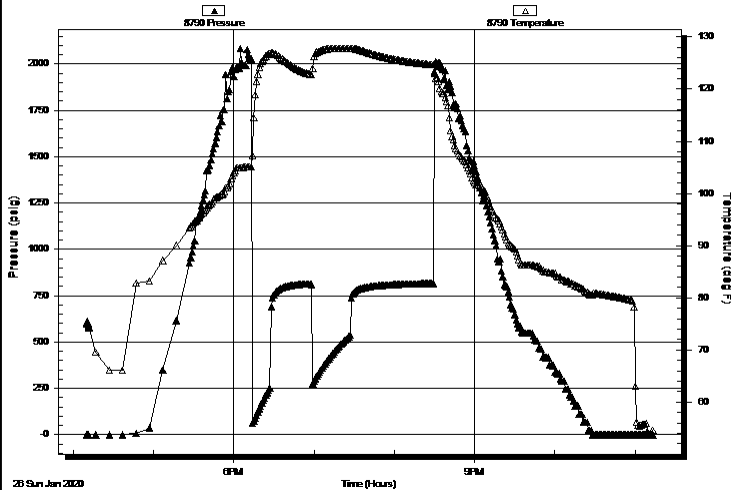
Serial #: 8790

Inside

Press@RunDepth: psig @ 4139.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.01.26 End Date: 2020.01.26 Last Calib.: 2020.01.26
 Start Time: 16:10:09 End Time: 23:13:33 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 2 min. 50"
 IS: No return.
 FF: BOB in 3 min. 65"
 FS: No return. 15-30-30-60

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
248.00	water 100%w	3.48
558.00	ocmw 5%o 90%w 5%m	7.83
331.00	ocmw 10%o 55%w 40%m	4.64
10.00	free oil 100%o	0.14

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66143 **DST#: 2**
Test Start: 2020.01.26 @ 16:10:54

Mud and Cushion Information

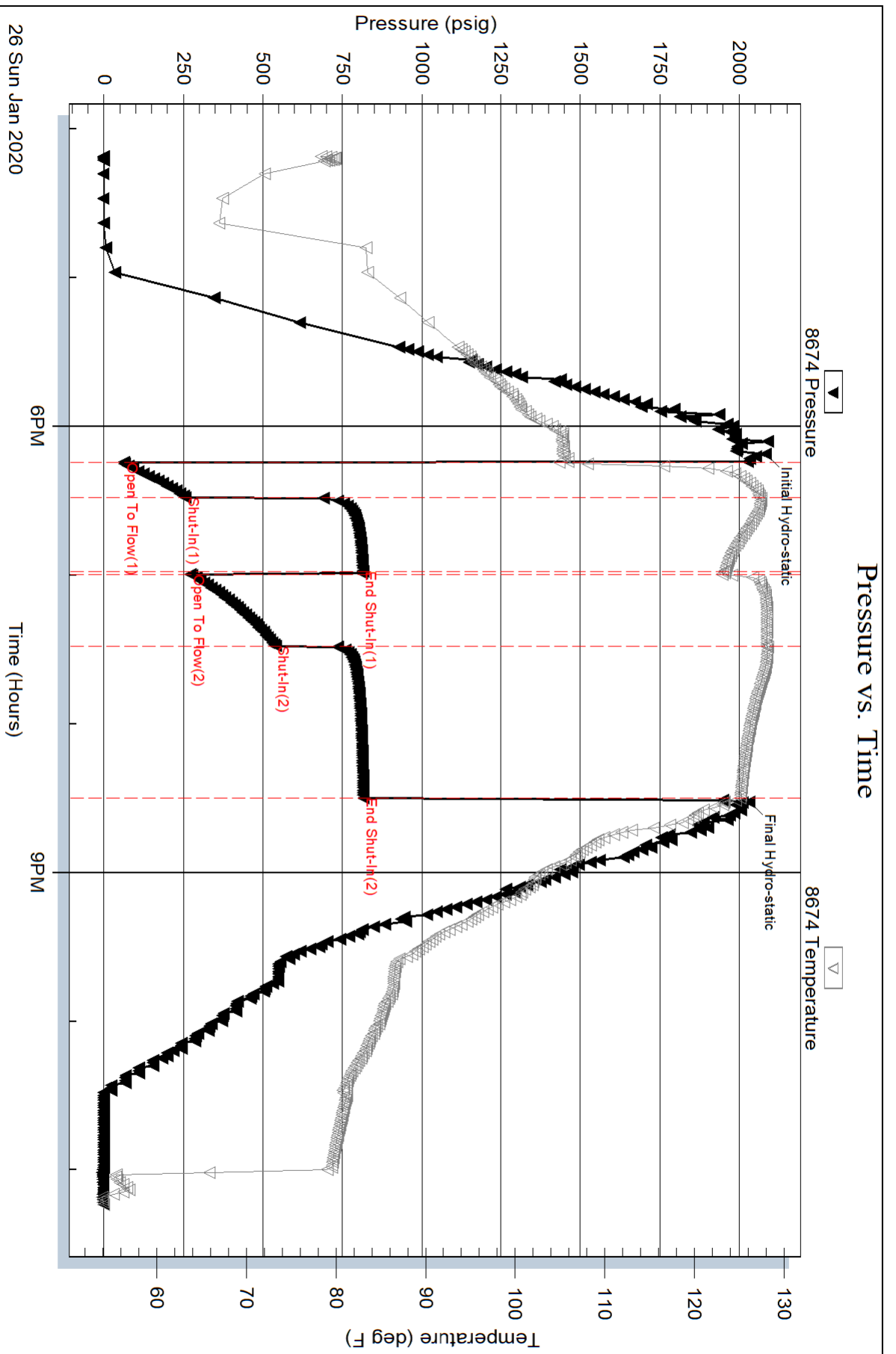
Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 100000 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.80 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2300.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	water 100%w	3.479
558.00	ocmw 5%o 90%w 5%m	7.827
331.00	ocmw 10%o 55%w 40%m	4.643
10.00	free oil 100%o	0.140

Total Length: 1147.00 ft Total Volume: 16.089 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 33@60=33
 .16@34=100000



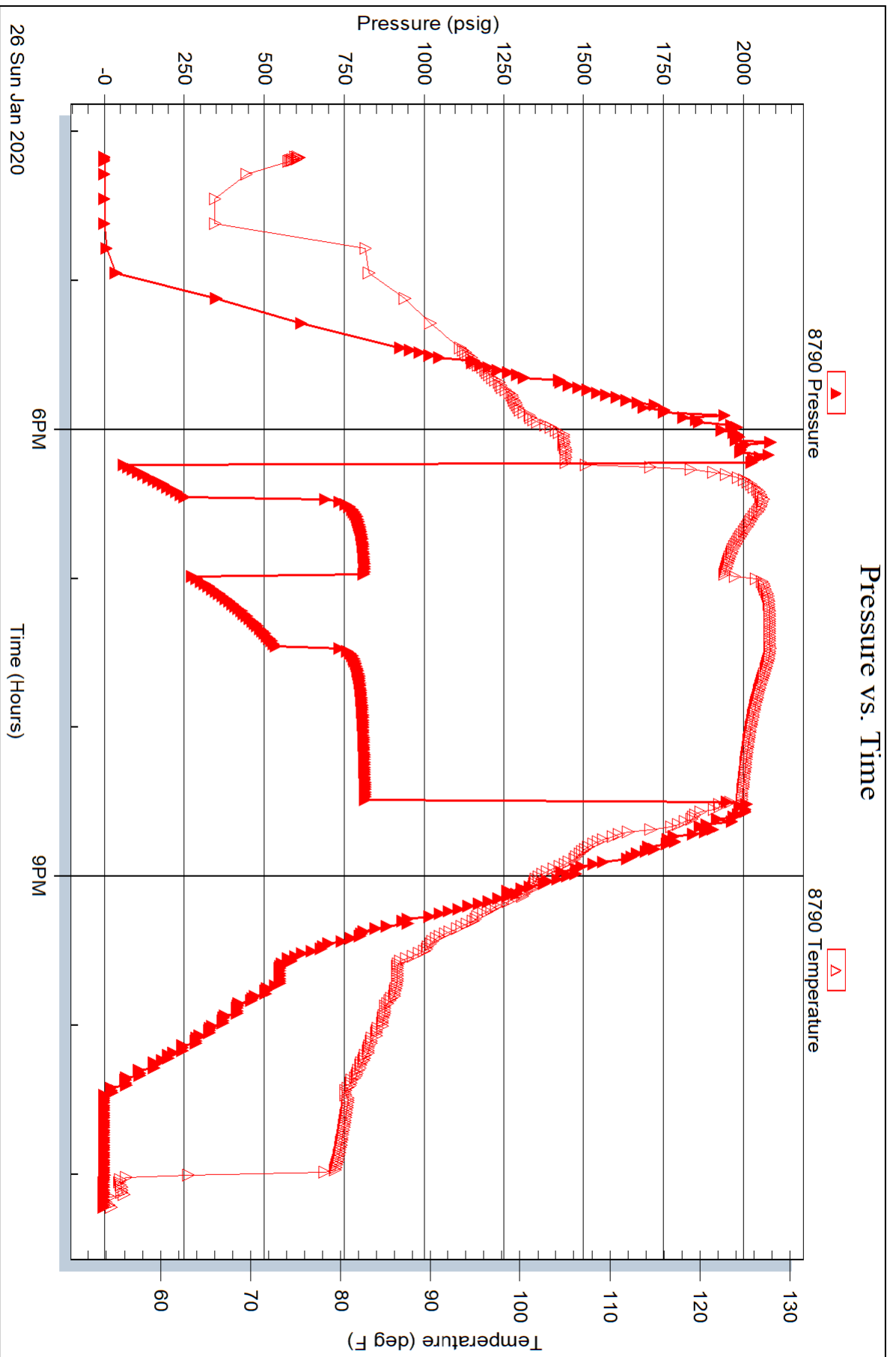
Serial #: 8790

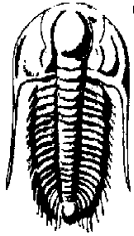
Inside

Bereco LLC

MRM#4

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bereco LLC
 2020 N Brambeew ood
 Wichita, Ks 67206
 ATTN: Bryan Bynog

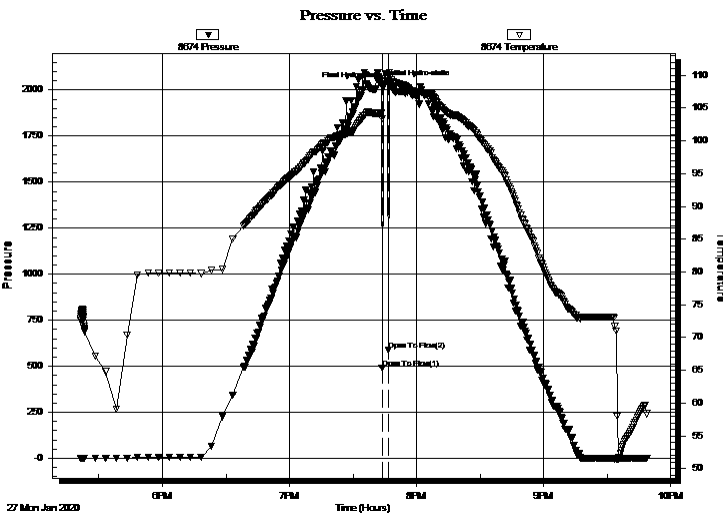
15-10s-33w Thomas, Ks
MRM #4
 Job Ticket: 66144 **DST#: 3**
 Test Start: 2020.01.27 @ 17:21:15

GENERAL INFORMATION:

Formation: E			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 19:43:45		Tester: Brandon Turley	
Time Test Ended: 21:48:45		Unit No: 79	
Interval: 4165.00 ft (KB) To 4185.00 ft (KB) (TVD)		Reference Elevations: 3154.00 ft (KB)	
Total Depth: 4185.00 ft (KB) (TVD)		3147.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 7.00 ft	

Serial #: 8674	Outside				
Press@RunDepth: psig @	4166.00 ft (KB)	Capacity:	8000.00 psig		
Start Date: 2020.01.27	End Date: 2020.01.27	Last Calib.:	2020.01.27		
Start Time: 17:21:20	End Time: 21:48:44	Time On Btm:	2020.01.27 @ 19:43:15		
		Time Off Btm:	2020.01.27 @ 19:47:15		

TEST COMMENT: Packers Failed at Open



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2032.47	104.22	Initial Hydro-static
1	491.39	103.35	Open To Flow (1)
4	588.74	109.09	Open To Flow (2)
4	2019.07	110.43	Final Hydro-static

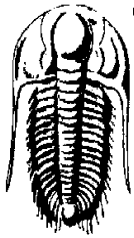
Recovery

Length (ft)	Description	Volume (bbl)
124.00	Mud 100% _m	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66144 **DST#: 3**
Test Start: 2020.01.27 @ 17:21:15

GENERAL INFORMATION:

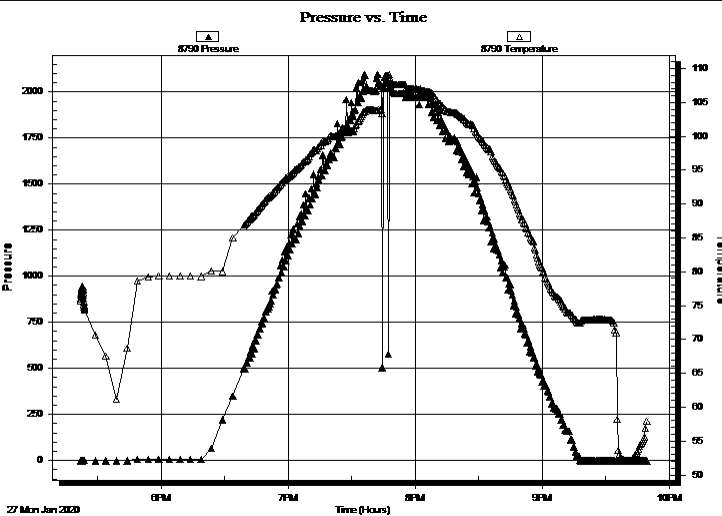
Formation: E			
Deviated: No	Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 19:43:45			Tester: Brandon Turley
Time Test Ended: 21:48:45			Unit No: 79
Interval: 4165.00 ft (KB) To 4185.00 ft (KB) (TVD)			Reference Elevations: 3154.00 ft (KB)
Total Depth: 4185.00 ft (KB) (TVD)			3147.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair		KB to GR/CF: 7.00 ft

Serial #: 8790

Inside

Press@RunDepth: psig @	4166.00 ft (KB)	Capacity:	8000.00 psig
Start Date: 2020.01.27	End Date: 2020.01.27	Last Calib.:	2020.01.27
Start Time: 17:21:57	End Time: 21:49:21	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: Packers Failed at Open



PRESSURE SUMMARY

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

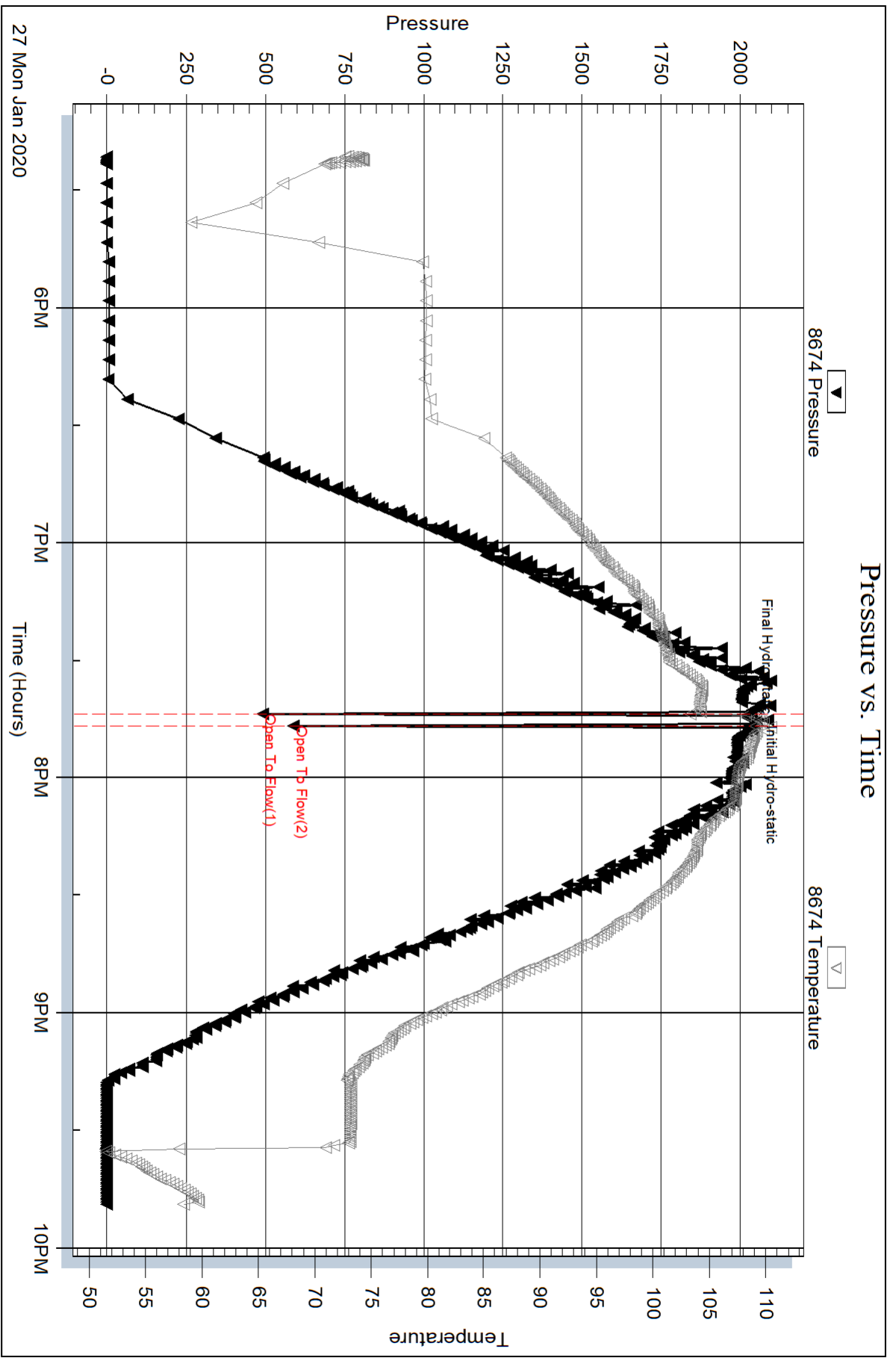
Recovery

Length (ft)	Description	Volume (bbl)
124.00	Mud 100%m	1.74

Gas Rates

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

* Recovery from multiple tests



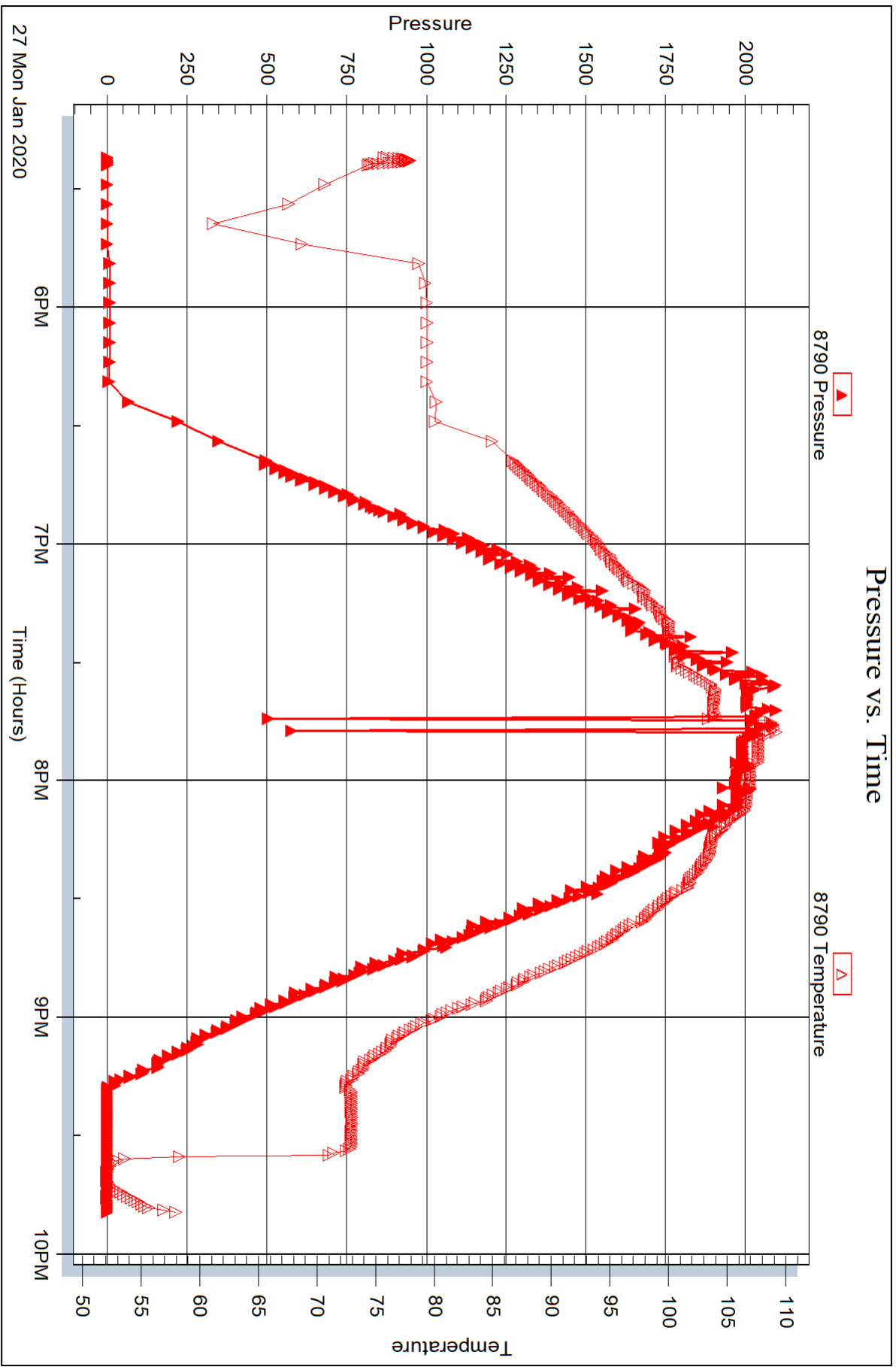
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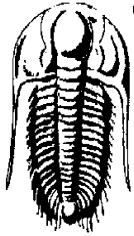
Inside

Bereco LLC

MRM#4

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

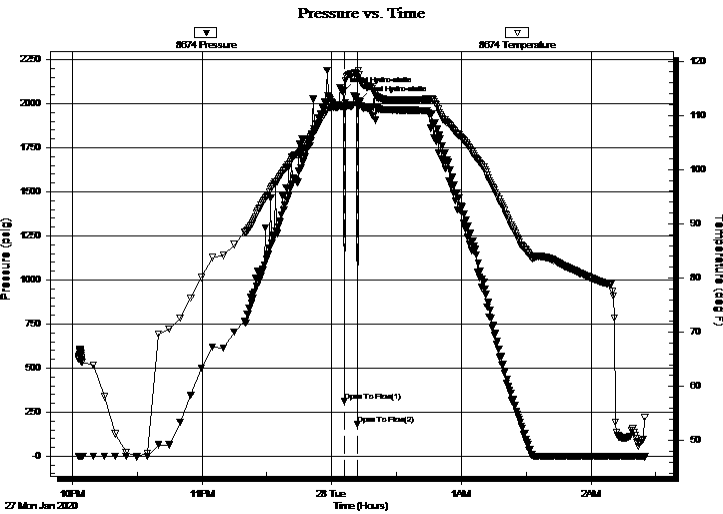
15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66145 **DST#: 4**
Test Start: 2020.01.27 @ 22:02:49

GENERAL INFORMATION:

Formation: **E**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 00:05:49 Tester: Brandon Turley
Time Test Ended: 02:24:49 Unit No: 79
Interval: 4155.00 ft (KB) To 4185.00 ft (KB) (TVD) Reference Elevations: 3154.00 ft (KB)
Total Depth: 4185.00 ft (KB) (TVD) 3147.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8674 Outside
Press@RunDepth: psig @ 4160.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.01.27 End Date: 2020.01.28 Last Calib.: 2020.01.28
Start Time: 22:02:54 End Time: 02:24:48 Time On Btm: 2020.01.28 @ 00:05:19
Time Off Btm: 2020.01.28 @ 00:12:49

TEST COMMENT: Packer Failed at open



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2070.90	111.66	Initial Hydro-static
1	313.26	110.97	Open To Flow (1)
7	183.15	116.58	Open To Flow (2)
8	2018.93	117.52	Final Hydro-static

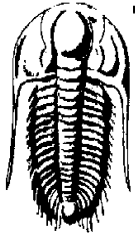
Recovery

Length (ft)	Description	Volume (bbl)
134.00	mud 100%m	1.88

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bereco LLC
 2020 N Brambeew ood
 Wichita, Ks 67206
 ATTN: Bryan Bynog

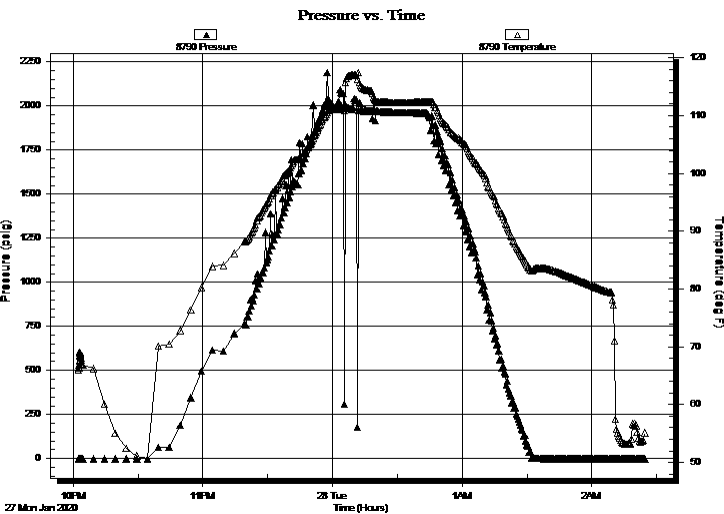
15-10s-33w Thomas, Ks
MRM #4
 Job Ticket: 66145 **DST#: 4**
 Test Start: 2020.01.27 @ 22:02:49

GENERAL INFORMATION:

Formation: **E**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 00:05:49 Tester: Brandon Turley
 Time Test Ended: 02:24:49 Unit No: 79
Interval: 4155.00 ft (KB) To 4185.00 ft (KB) (TVD) Reference Elevations: 3154.00 ft (KB)
 Total Depth: 4185.00 ft (KB) (TVD) 3147.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8790 Inside
 Press@RunDepth: psig @ 4160.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.01.27 End Date: 2020.01.28 Last Calib.: 2020.01.28
 Start Time: 22:02:31 End Time: 02:24:25 Time On Btm:
 Time Off Btm:

TEST COMMENT: Packer Failed at open



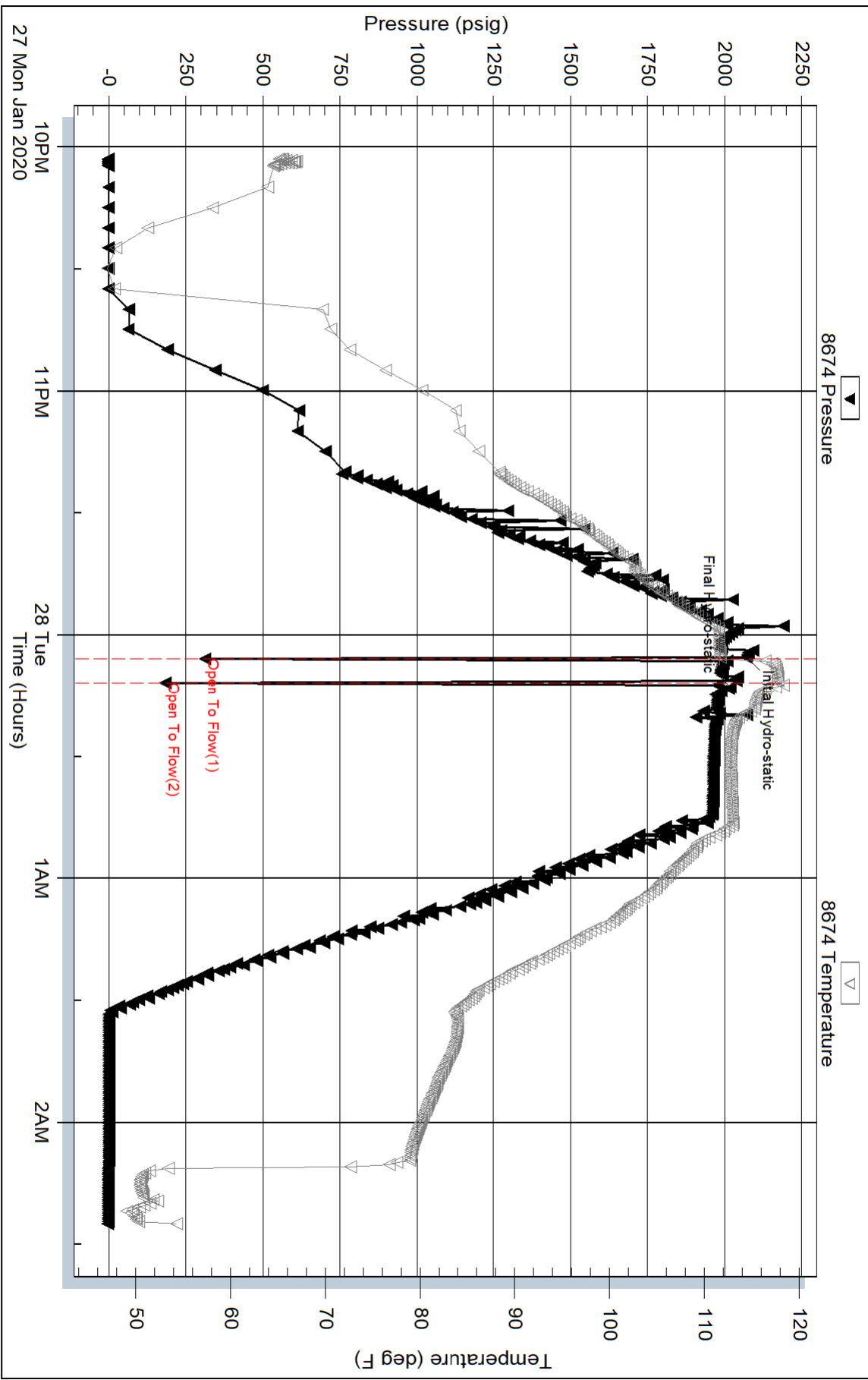
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
134.00	mud 100% ^m	1.88

* Recovery from multiple tests

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

Pressure vs. Time



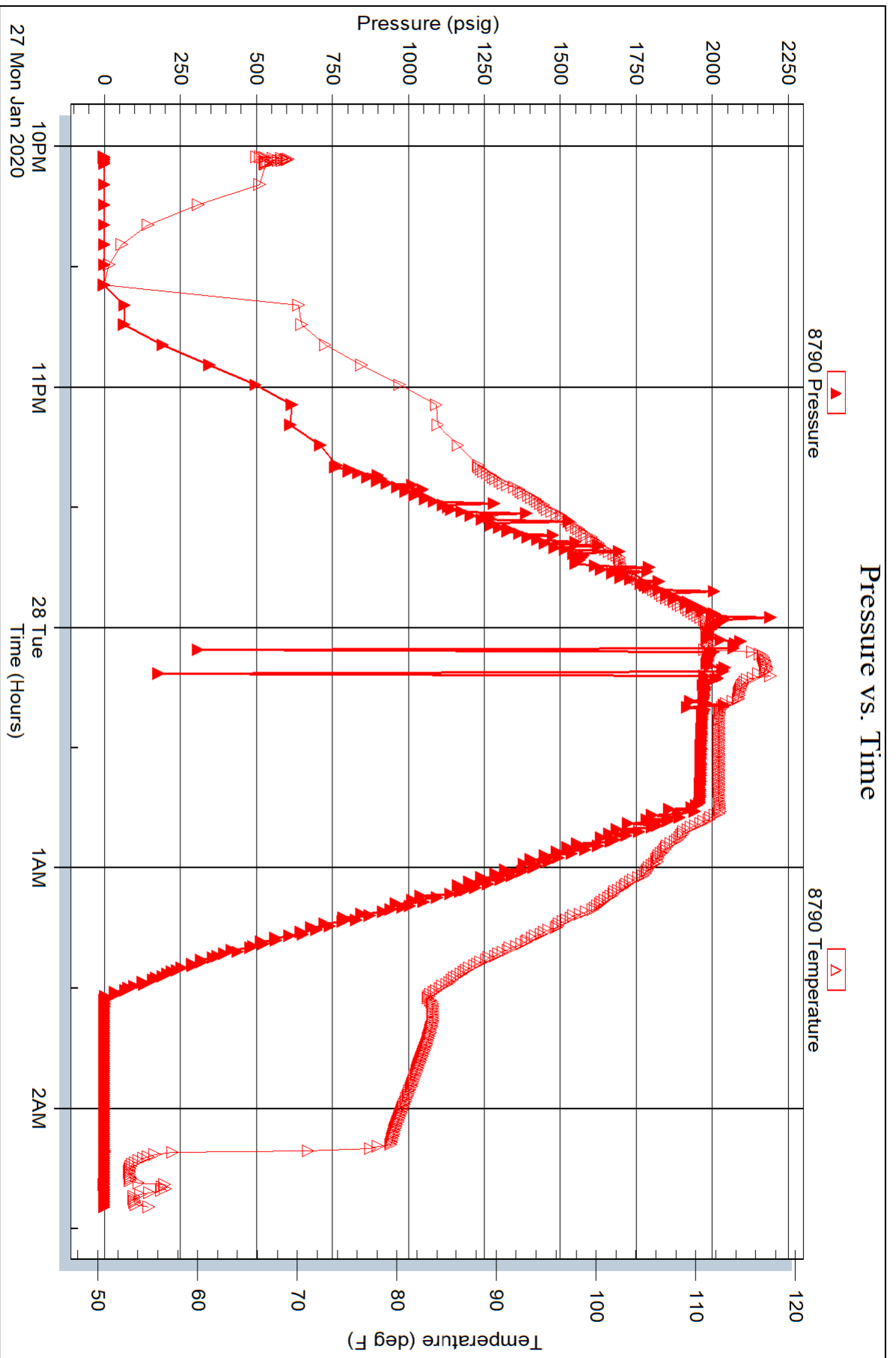
Serial #: 8790

Inside

Bereco LLC

MRM#4

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66146 **DST#: 5**
Test Start: 2020.01.28 @ 16:30:18

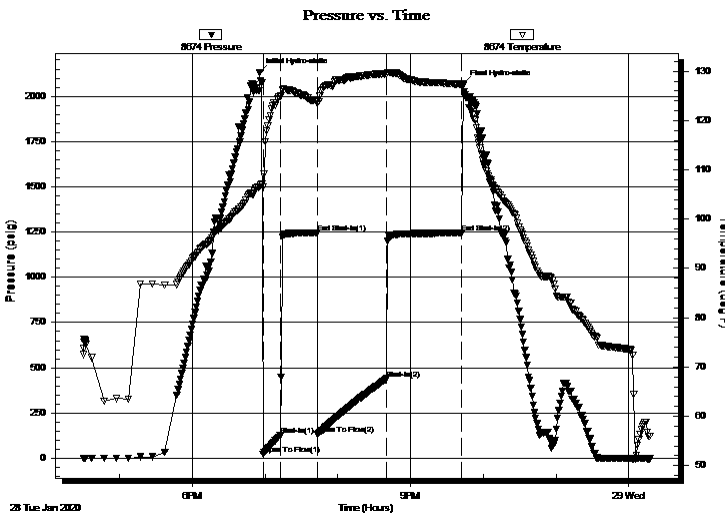
GENERAL INFORMATION:

Formation: **G&H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:58:18
Time Test Ended: 00:17:48
Interval: **4215.00 ft (KB) To 4265.00 ft (KB) (TVD)**
Total Depth: 4265.00 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: 3154.00 ft (KB)
3147.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8674 Outside
Press@RunDepth: 439.63 psig @ 4220.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.01.28 End Date: 2020.01.29 Last Calib.: 2020.01.29
Start Time: 16:30:23 End Time: 00:17:47 Time On Btm: 2020.01.28 @ 18:55:48
Time Off Btm: 2020.01.28 @ 21:43:18

TEST COMMENT: IF: BOB in 6 min. 21 1/2
IS: Surface blow built to 1/2.
FF: BOB in 8 min. 70
FS: No return. 15-30-60-60

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.51	106.58	Initial Hydro-static
3	23.71	106.56	Open To Flow (1)
17	126.76	124.96	Shut-In(1)
47	1246.36	124.14	End Shut-In(1)
48	130.96	123.40	Open To Flow (2)
105	439.63	129.43	Shut-In(2)
167	1244.74	127.38	End Shut-In(2)
168	2067.11	127.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
496.00	mcw 95%w 5%m	6.96
186.00	ocmw 5%o 85%w 10%m	2.61
211.00	ocw m 10%o 40%w 50%m	2.96
20.00	free oil 100%o	0.28
0.00	62 Gip	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

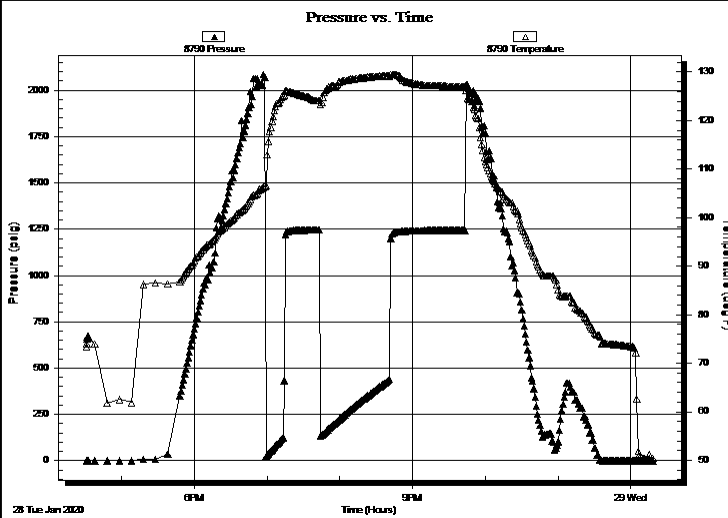
15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66146 **DST#: 5**
Test Start: 2020.01.28 @ 16:30:18

GENERAL INFORMATION:

Formation: **G&H**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 18:58:18 Tester: Brandon Turley
Time Test Ended: 00:17:48 Unit No: 79
Interval: 4215.00 ft (KB) To 4265.00 ft (KB) (TVD) Reference Elevations: 3154.00 ft (KB)
Total Depth: 4265.00 ft (KB) (TVD) 3147.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8790 Inside
Press@RunDepth: psig @ 4220.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.01.28 End Date: 2020.01.29 Last Calib.: 2020.01.29
Start Time: 16:31:04 End Time: 00:18:28 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 6 min. 21 1/2
IS: Surface blow built to 1/2.
FF: BOB in 8 min. 70
FS: No return. 15-30-60-60



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

Recovery		
Length (ft)	Description	Volume (bbl)
496.00	mcw 95%w 5%m	6.96
186.00	ocmw 5%o 85%w 10%m	2.61
211.00	ocw m 10%o 40%w 50%m	2.96
20.00	free oil 100%o	0.28
0.00	62 Gip	0.00

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66146 **DST#: 5**
Test Start: 2020.01.28 @ 16:30:18

Mud and Cushion Information

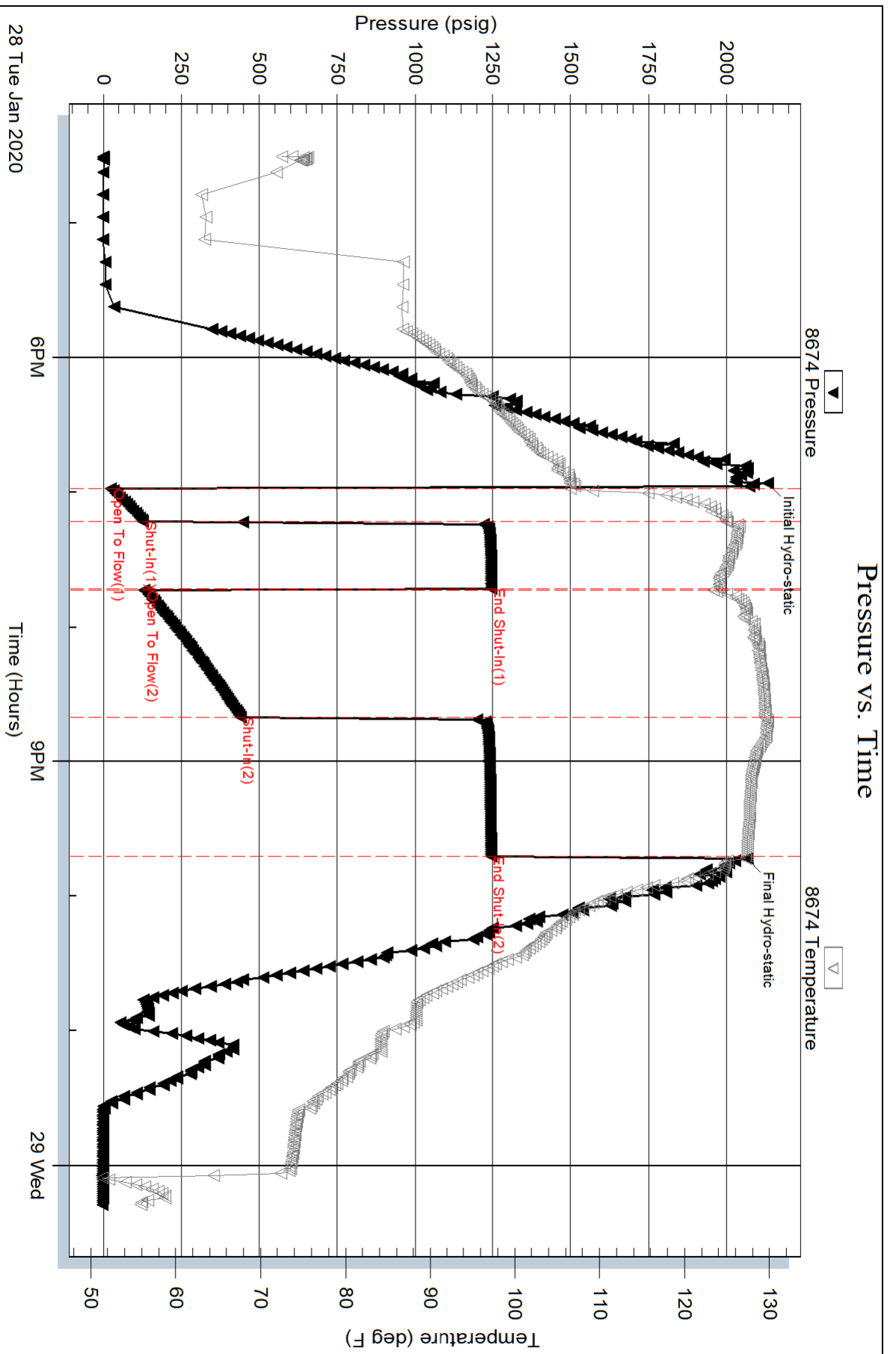
Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 58000 ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.60 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3600.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
496.00	mcw 95%w 5%m	6.958
186.00	ocmw 5%o 85%w 10%m	2.609
211.00	ocw m 10%o 40%w 50%m	2.960
20.00	free oil 100%o	0.281
0.00	62 Gip	0.000

Total Length: 913.00 ft Total Volume: 12.808 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 31@40=33
 .29@32=58000



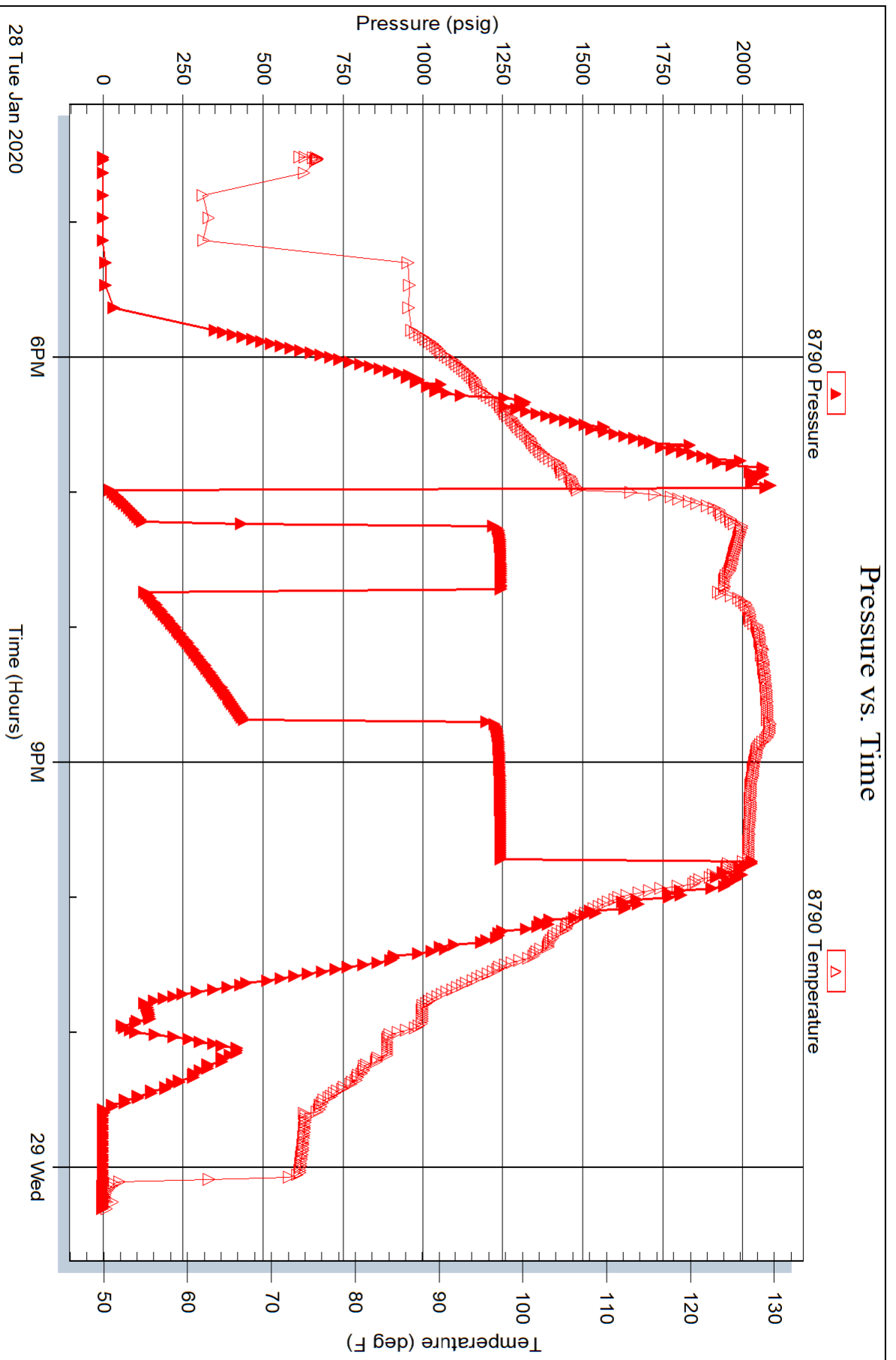
Serial #: 8790

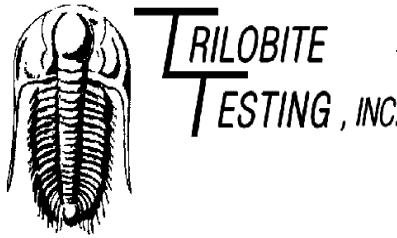
Inside

Bereco LLC

MRM#4

DST Test Number: 5





DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66147 **DST#: 6**
Test Start: 2020.01.29 @ 13:55:51

GENERAL INFORMATION:

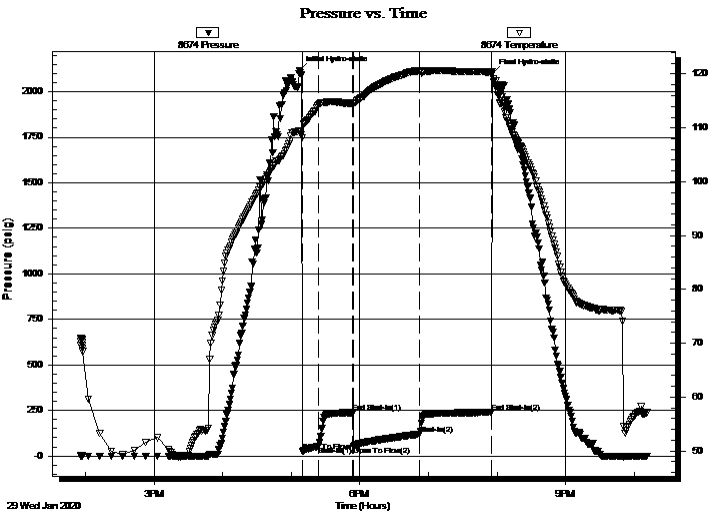
Formation:	I-J		
Deviated:	No	Whipstock:	ft (KB)
Time Tool Opened:	17:09:51		
Time Test Ended:	22:10:51		
Interval:	4255.00 ft (KB) To 4320.00 ft (KB) (TVD)	Reference Elevations:	3154.00 ft (KB)
Total Depth:	4320.00 ft (KB) (TVD)		3147.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition:	Fair
		KB to GR/CF:	7.00 ft

Serial #: 8674

Outside

Press@RunDepth:	119.17 psig @	4260.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2020.01.29	End Date:	2020.01.29	Last Calib.:	2020.01.29
Start Time:	13:55:56	End Time:	22:10:50	Time On Btm:	2020.01.29 @ 17:07:21
				Time Off Btm:	2020.01.29 @ 19:55:51

TEST COMMENT: IF: BOB in 11 min, 14
IS: Surface blow
FF: BOB in 10 min. 41
FS: 1/4 blow built to 2. 15-30-60-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.30	109.23	Initial Hydro-static
3	26.85	108.24	Open To Flow (1)
17	54.44	114.22	Shut-In(1)
47	238.12	114.56	End Shut-In(1)
48	54.34	114.60	Open To Flow (2)
105	119.17	120.54	Shut-In(2)
168	238.84	120.26	End Shut-In(2)
169	2099.83	120.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mogo 50%g 10%o 40%m	2.61
82.00	gocm 10%g 40%o 50%m	1.15
0.00	476 Gip	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66147 **DST#: 6**
Test Start: 2020.01.29 @ 13:55:51

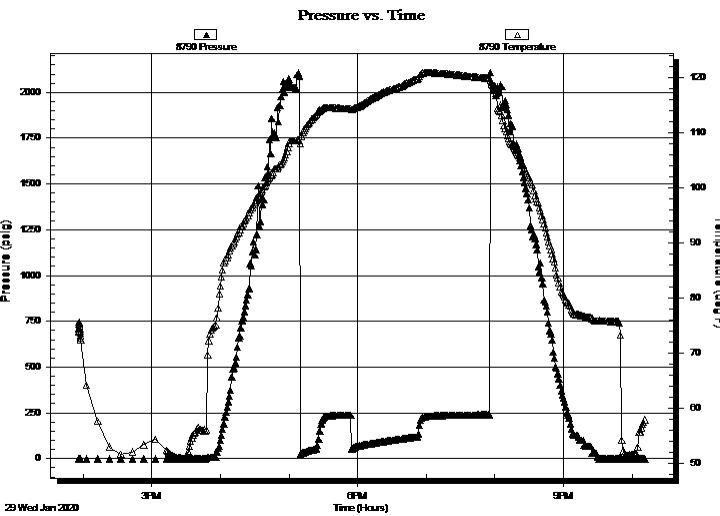
GENERAL INFORMATION:

Formation: **I-J**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 17:09:51
Time Test Ended: 22:10:51
Interval: 4255.00 ft (KB) To 4320.00 ft (KB) (TVD)
Total Depth: 4320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 3154.00 ft (KB)
3147.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8790 Inside

Press@RunDepth: psig @ 4260.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.01.29 End Date: 2020.01.29 Last Calib.: 2020.01.29
Start Time: 13:56:01 End Time: 22:10:55 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 11 min, 14
IS: Surface blow
FF: BOB in 10 min. 41
FS: 1/4 blow built to 2. 15-30-60-60



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcgo 50%g 10%o 40%m	2.61
82.00	gocm 10%g 40%o 50%m	1.15
0.00	476 Gip	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66147 **DST#: 6**
Test Start: 2020.01.29 @ 13:55:51

Mud and Cushion Information

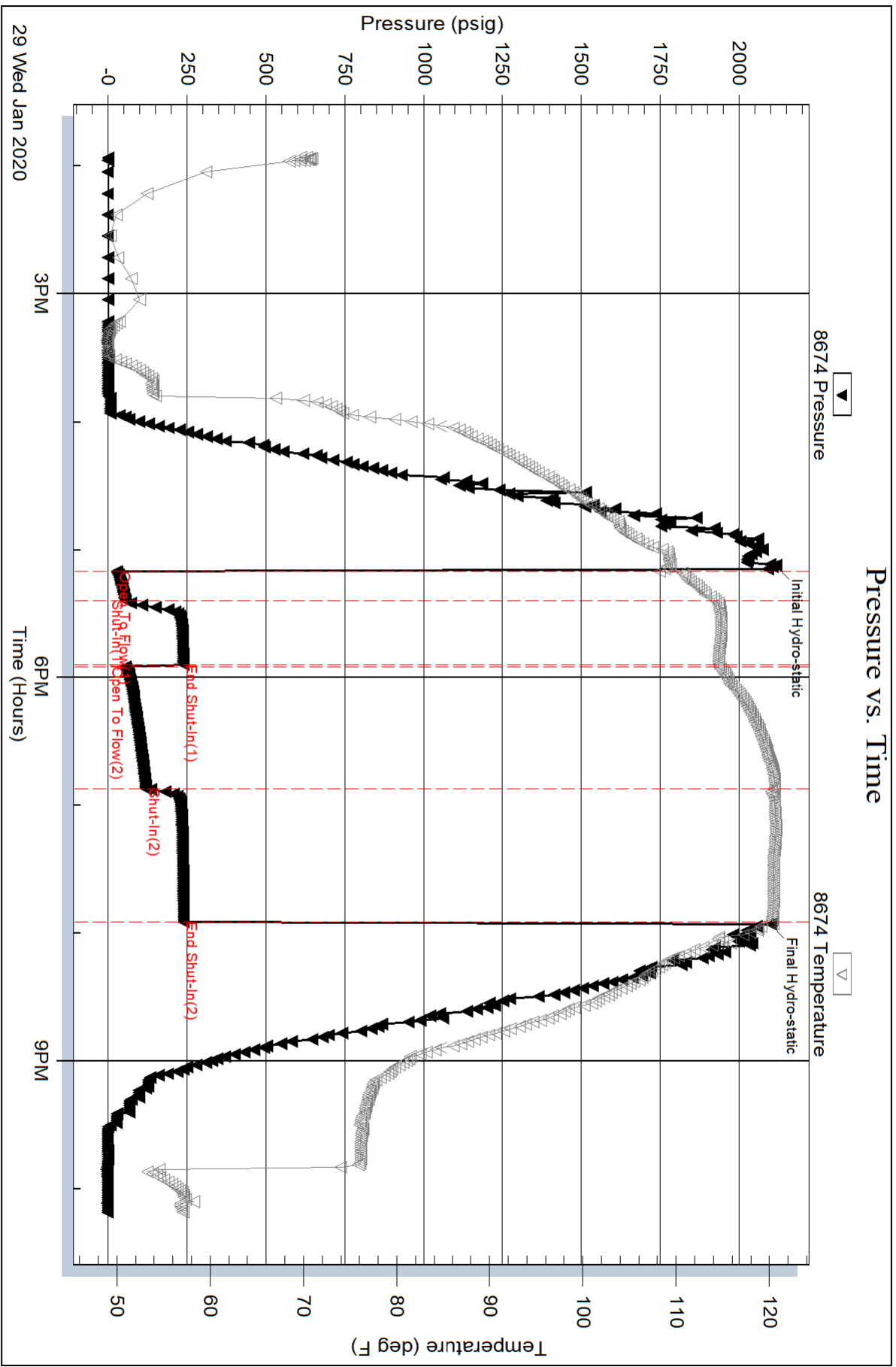
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 85.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2800.00 ppm			
Filter Cake: 2.00 inches			

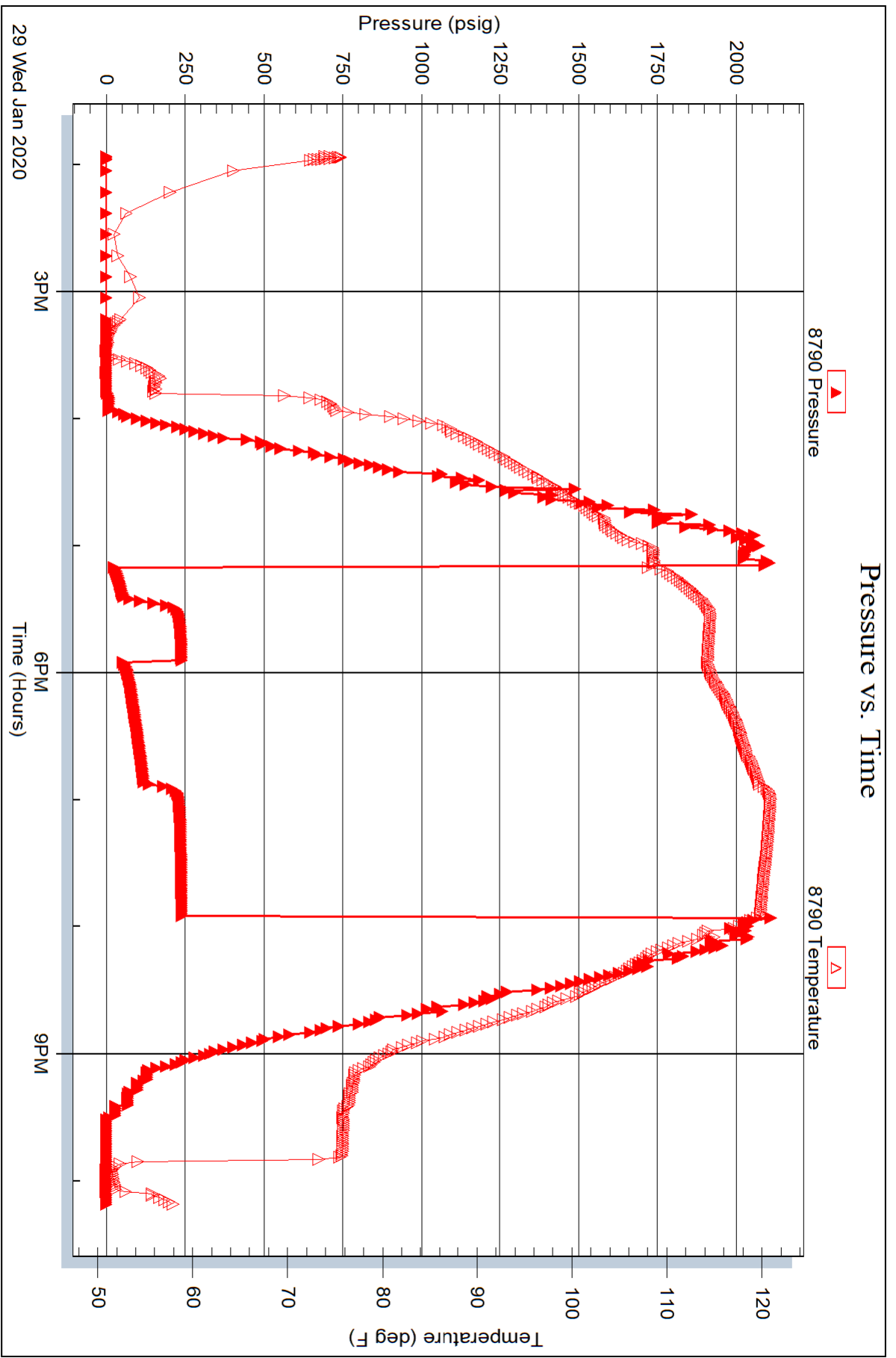
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	mcgo 50%g 10%o 40%m	2.609
82.00	gocm 10%g 40%o 50%m	1.150
0.00	476 Gip	0.000

Total Length: 268.00 ft Total Volume: 3.759 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bereco LLC
 2020 N Brambeew ood
 Wichita, Ks 67206
 ATTN: Bryan Bynog

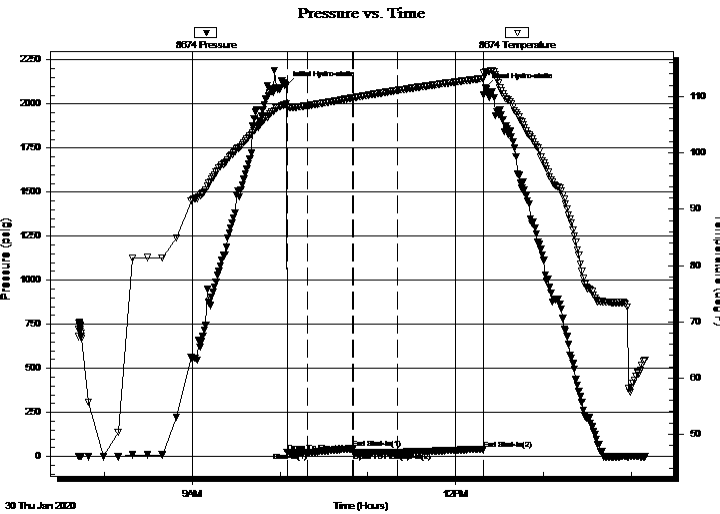
15-10s-33w Thomas, Ks
MRM #4
 Job Ticket: 66148 **DST#: 7**
 Test Start: 2020.01.30 @ 07:42:19

GENERAL INFORMATION:

Formation: **K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:04:49
 Time Test Ended: 14:09:49
 Interval: **4310.00 ft (KB) To 4350.00 ft (KB) (TVD)**
 Total Depth: 4350.00 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: 3154.00 ft (KB)
 3147.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8674 **Outside**
 Press@RunDepth: 24.17 psig @ 4311.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.01.30 End Date: 2020.01.30 Last Calib.: 2020.01.30
 Start Time: 07:42:24 End Time: 14:09:48 Time On Btm: 2020.01.30 @ 10:04:19
 Time Off Btm: 2020.01.30 @ 12:20:19

TEST COMMENT: IF: Surface blow built to 1/2.
 IS: No return.
 FF: No blow.
 FS: No return. 15-30-30-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.87	108.75	Initial Hydro-static
1	22.97	108.10	Open To Flow (1)
15	23.02	108.40	Shut-In(1)
46	44.78	109.79	End Shut-In(1)
46	24.05	109.81	Open To Flow (2)
76	24.17	111.10	Shut-In(2)
135	41.81	113.23	End Shut-In(2)
136	2094.43	114.44	Final Hydro-static

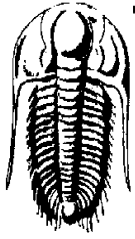
Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.14

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66148 **DST#: 7**
Test Start: 2020.01.30 @ 07:42:19

GENERAL INFORMATION:

Formation: **K**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 10:04:49
Time Test Ended: 14:09:49

Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Brandon Turley**
Unit No: **79**

Interval: 4310.00 ft (KB) To 4350.00 ft (KB) (TVD)
Total Depth: **4350.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **3154.00 ft (KB)**
3147.00 ft (CF)
KB to GR/CF: **7.00 ft**

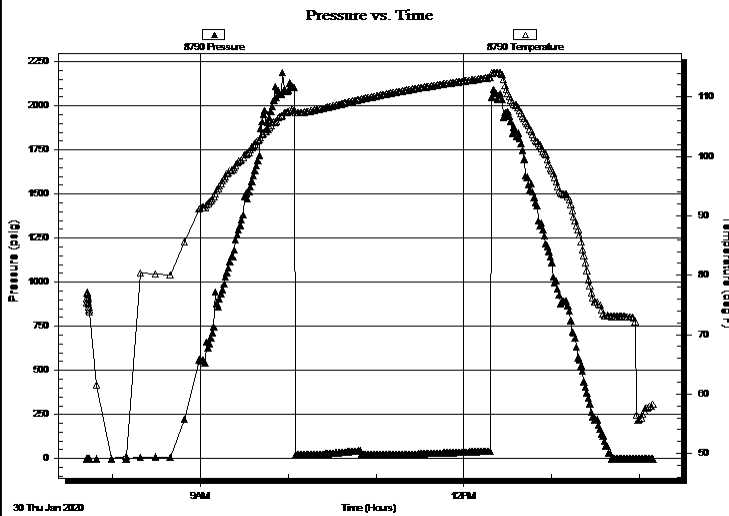
Serial #: 8790

Inside

Press@RunDepth: psig @ **4311.00 ft (KB)**
Start Date: **2020.01.30** End Date: **2020.01.30**
Start Time: **07:42:10** End Time: **14:09:34**

Capacity: **8000.00 psig**
Last Calib.: **2020.01.30**
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Surface blow built to 1/2.
IS: No return.
FF: No blow.
FS: No return. 15-30-30-60



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% <i>m</i>	0.14

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66148 **DST#: 7**
Test Start: 2020.01.30 @ 07:42:19

Mud and Cushion Information

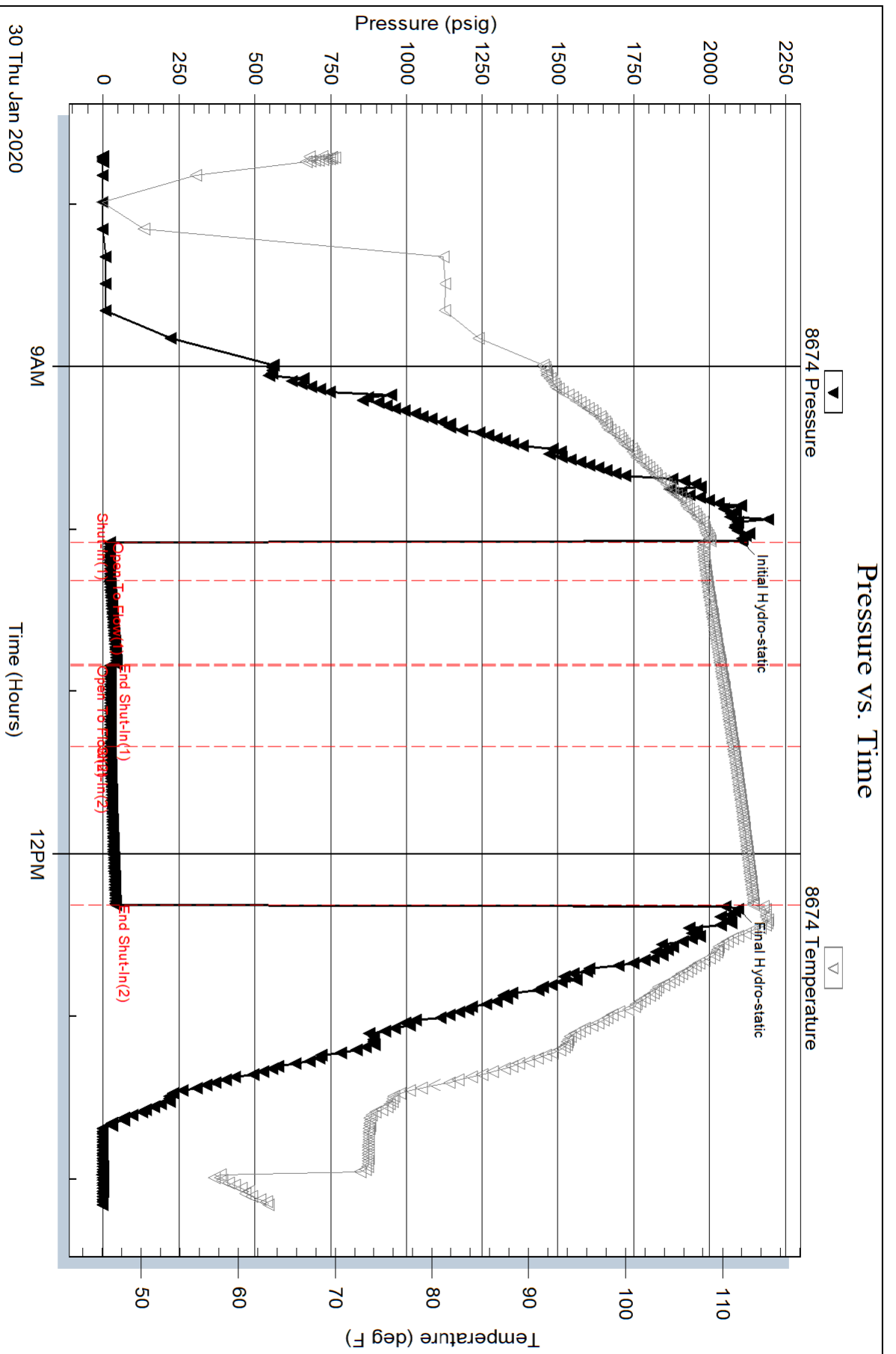
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 85.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



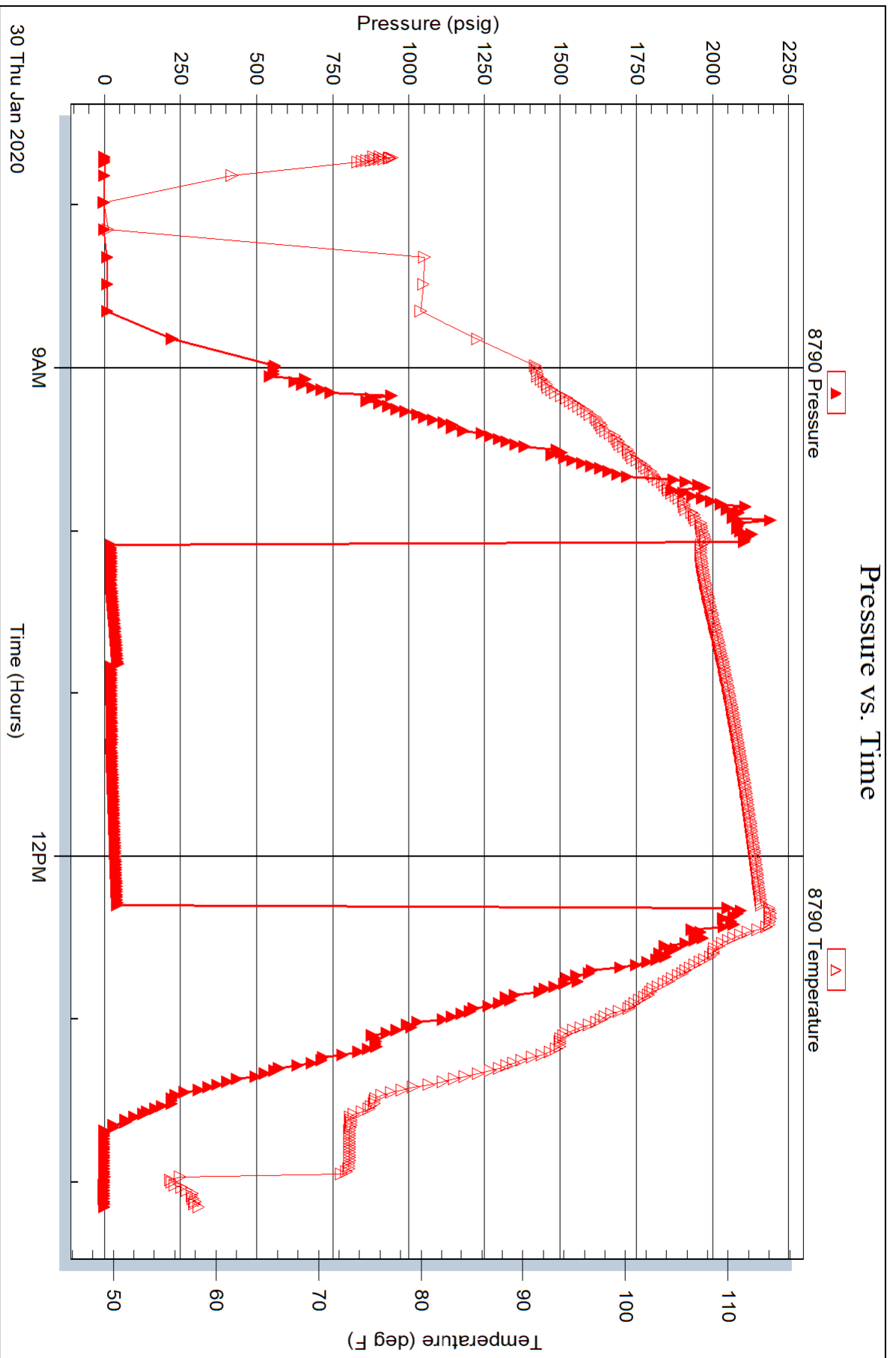
Serial #: 8790

Inside

Bereco LLC

MRM#4

DST Test Number: 7





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

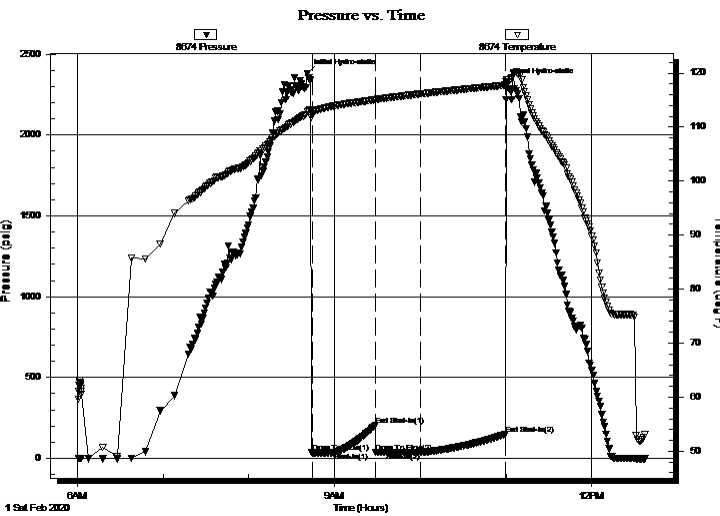
15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66149 **DST#: 8**
Test Start: 2020.02.01 @ 06:00:56

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:44:26
Time Test Ended: 12:37:26
Interval: **4595.00 ft (KB) To 4670.00 ft (KB) (TVD)**
Total Depth: 4670.00 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: 3154.00 ft (KB)
3147.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8674 Outside
Press@RunDepth: 36.87 psig @ 4596.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.02.01 End Date: 2020.02.01 Last Calib.: 2020.02.01
Start Time: 06:01:01 End Time: 12:37:25 Time On Btm: 2020.02.01 @ 08:40:56
Time Off Btm: 2020.02.01 @ 11:00:26

TEST COMMENT: IF: 1/2 blow built to 1.
IS: No return.
FF: Surface blow died in 20 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2378.24	112.81	Initial Hydro-static
4	35.17	112.75	Open To Flow (1)
19	35.90	113.92	Shut-In(1)
48	203.85	115.07	End Shut-In(1)
48	37.31	115.06	Open To Flow (2)
80	36.87	116.15	Shut-In(2)
139	149.77	117.76	End Shut-In(2)
140	2323.56	118.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07
0.00	oil Spots in tool	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66149 **DST#: 8**
Test Start: 2020.02.01 @ 06:00:56

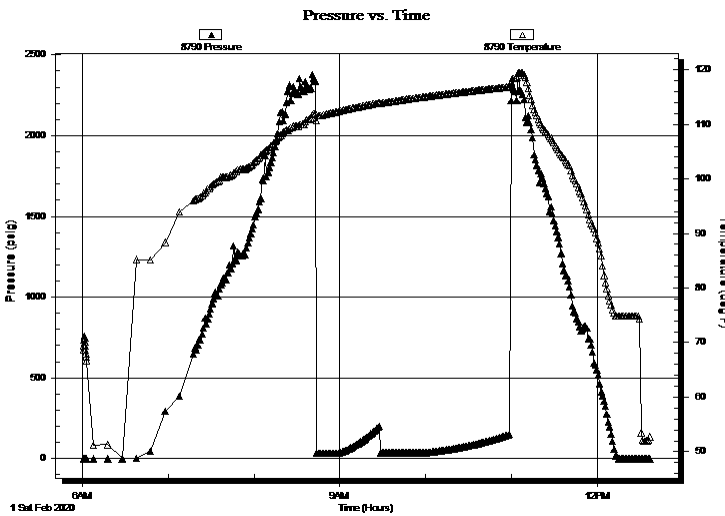
GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 08:44:26 Tester: Brandon Turley
Time Test Ended: 12:37:26 Unit No: 79
Interval: 4595.00 ft (KB) To 4670.00 ft (KB) (TVD) Reference Elevations: 3154.00 ft (KB)
Total Depth: 4670.00 ft (KB) (TVD) 3147.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8790 Inside
Press@RunDepth: psig @ 4596.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.02.01 End Date: 2020.02.01 Last Calib.: 2020.02.01
Start Time: 06:00:49 End Time: 12:37:13 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/2 blow built to 1.
IS: No return.
FF: Surface blow died in 20 min.
FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07
0.00	oil Spots in tool	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bereco LLC
2020 N Brambeew ood
Wichita, Ks 67206
ATTN: Bryan Bynog

15-10s-33w Thomas, Ks
MRM #4
Job Ticket: 66149 **DST#: 8**
Test Start: 2020.02.01 @ 06:00:56

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: 75.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

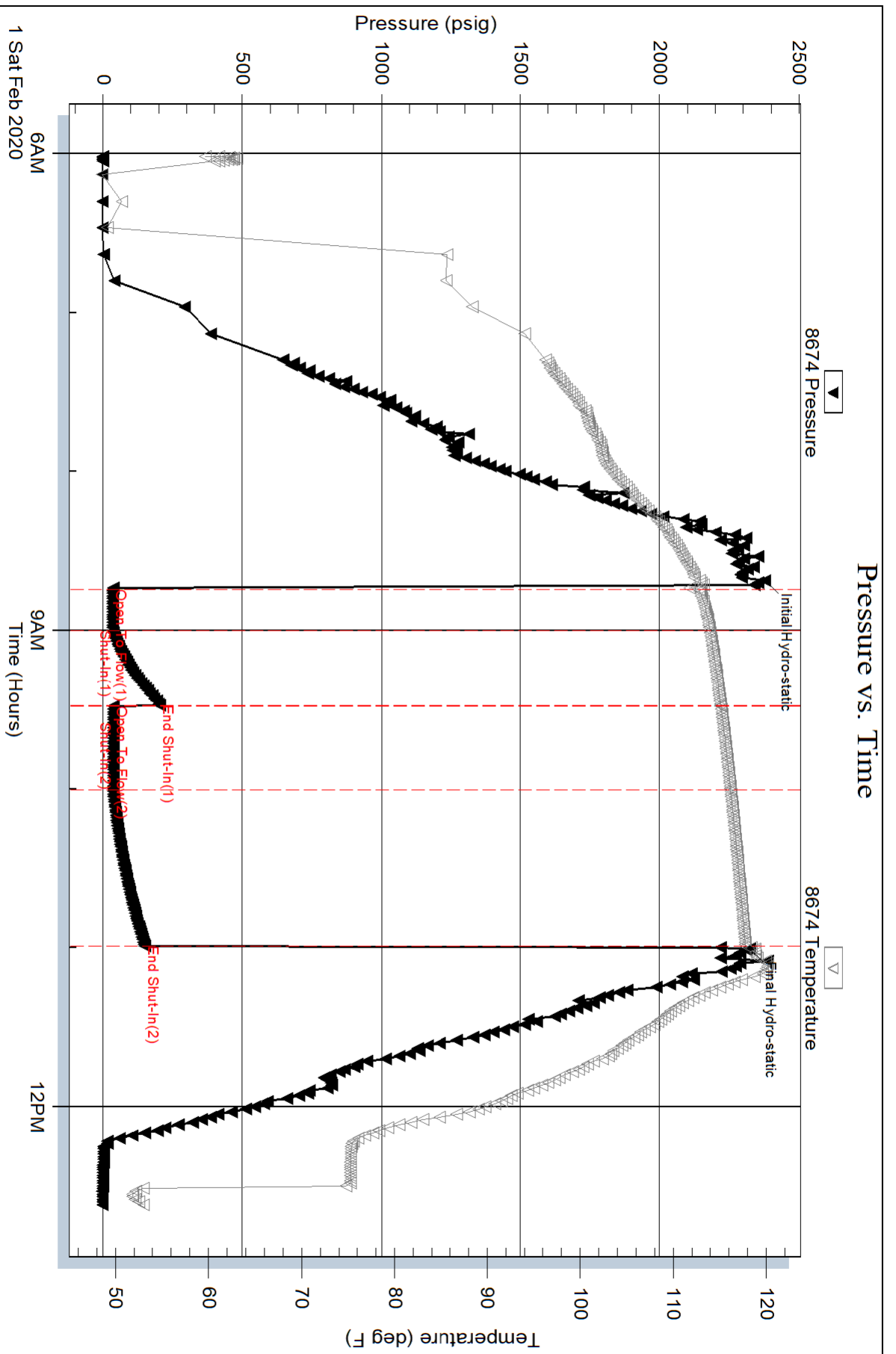
Length ft	Description	Volume bbl
5.00	mud 100%m	0.070
0.00	oil Spots in tool	0.000

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:



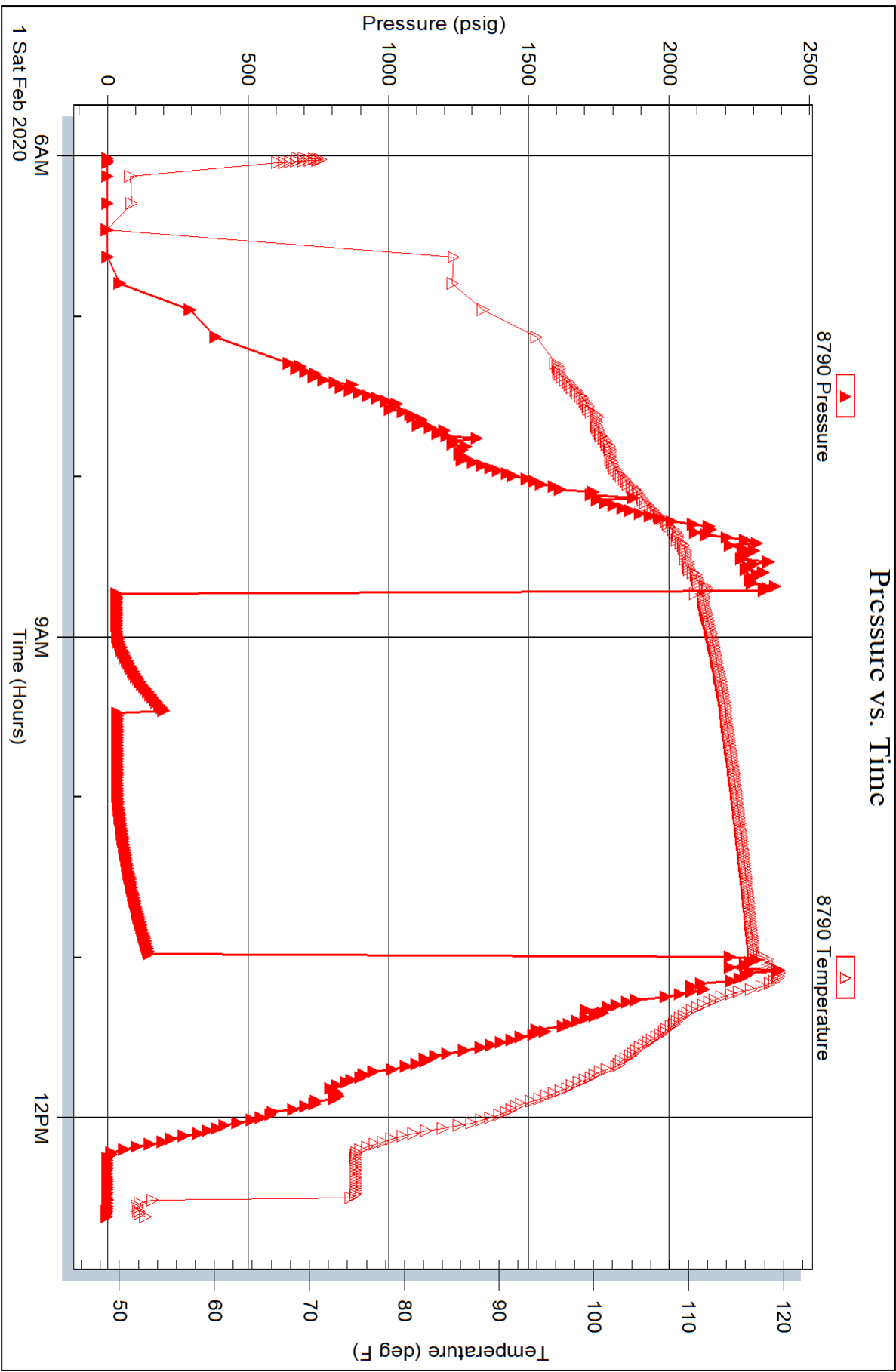
Serial #: 8790

Inside

Bereco LLC

MRM#4

DST Test Number: 8



LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: MRM #4
Well Id:
Location: E2SENE 15 10S-33W THOMAS COUNTY, KANSAS
License Number: 15-193-21070
Spud Date: 1-19 2020
Surface Coordinates: 1980' FNL & 330' FEL
Region: CENTRAL USA
Drilling Completed: 2-2-2020

Bottom Hole
Coordinates:
Ground Elevation (ft): 3147
Logged Interval (ft): 3600
Formation: LKC, PAWNEE, FT SCOTT, JOHNSON & MISS
Type of Drilling Fluid: WBM
K.B. Elevation (ft): 3155
To: 4770
Total Depth (ft): 4770

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)
395'	1	ANHYDRITE 2668(+487)
3677'	2	TOPEKA 3844(-688)
4140'	1.75	HEEBNER 4058(-903)
		TORONTO 4076(-921)
		LANSING A 4096(-941)
		B ZONE 4130(-975)
		C ZONE 4146(-991)
		E ZONE 4174(-1019)
		G ZONE 4200(-1045)
		H ZONE 4250(-1095)
		I ZONE 4278(-1123)
		J ZONE 4302(-1147)
		K ZONE 4332(-1177)
		PAWNEE 4520(-1365)
		FT. SCOTT 4576(-1421)
		JOHNSON 4638(-1483)
		MISS 4700(-1545)

DSTs

DST#1 4085-4140', DST#2 4138-60', DST#3 4165-85'(MIS-RUN), DST#4 4158-85'(MIS-RUN), DST#5H ZONE 424215-65',
DST#6 4255-4320', DST#7 4310-50', DST#8 4595-4670'

Remarks

PRODUCTIVE

ROCK TYPES

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

ACCESSORIES

- MINERAL**
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Brecfrag
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau
 - Gyp
 - Hvymn
 - 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

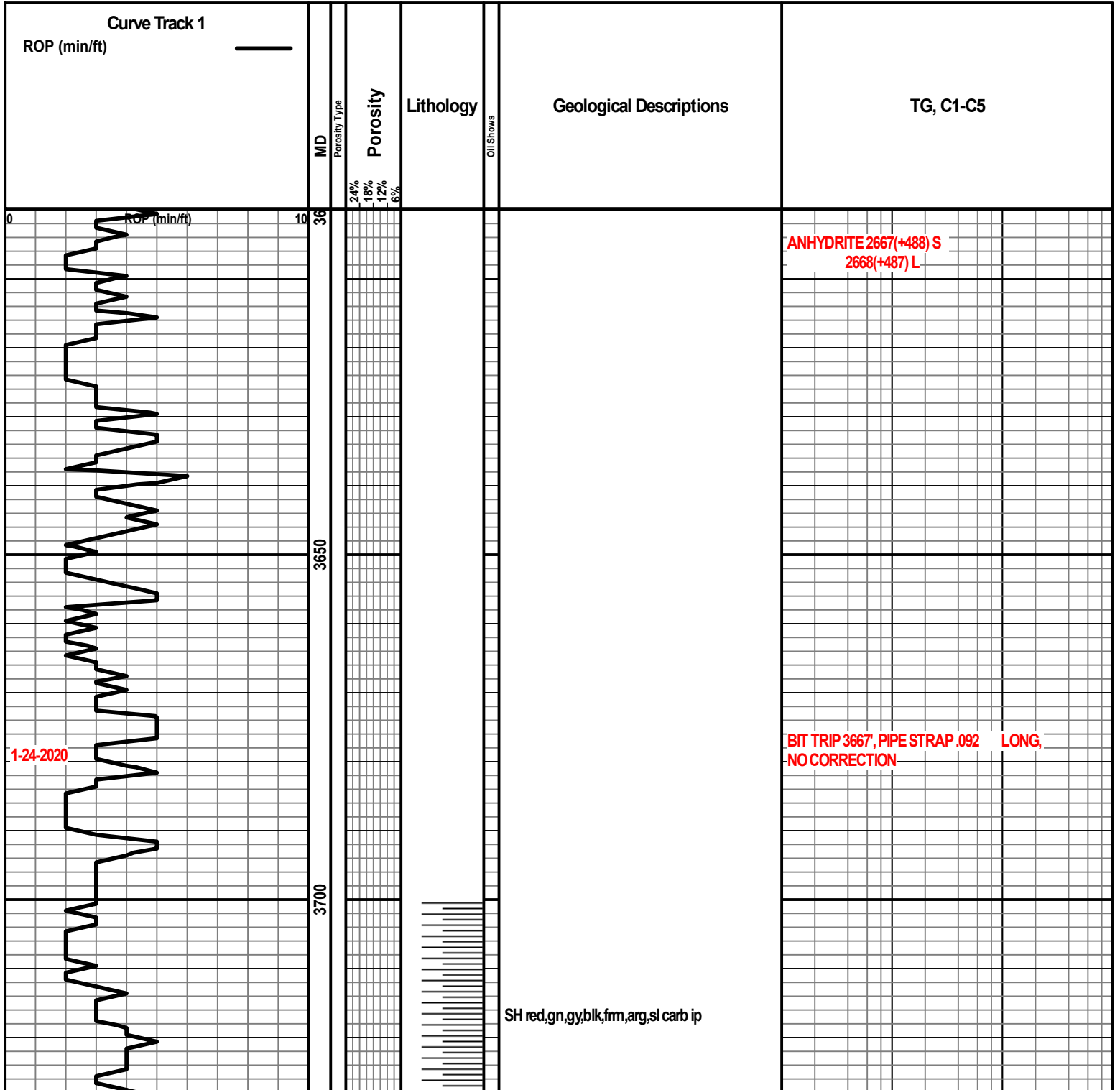
- SORTING**
- Well
 - Moderate
 - Poor

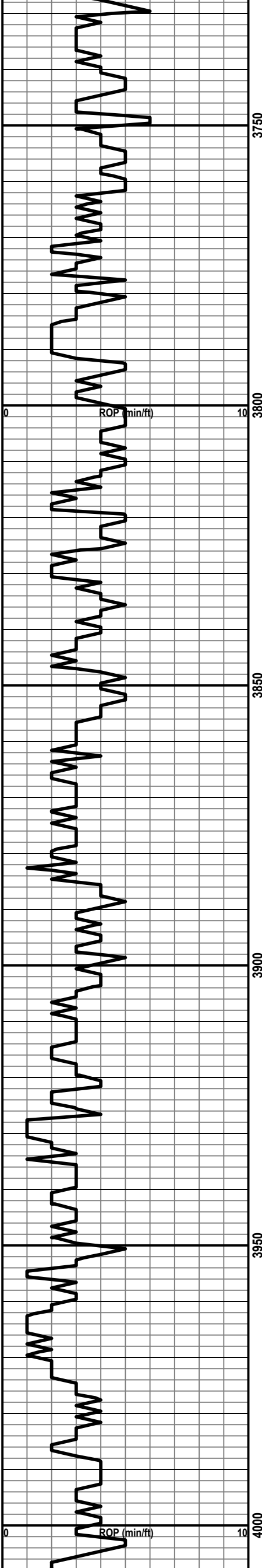
- ROUNDING**
- Rounded
 - Subrnd
 - Subang

- Angular
- OIL SHOW**
- Even
 - Spotted
 - Ques
 - Dead

- INTERVAL**
- Dst
 - Dst mis-run

- EVENT**
- Rft
 - Sidewall





3750

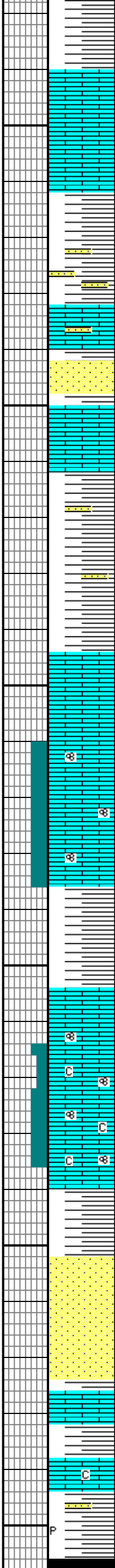
3800

3850

3900

3950

4000



LS cm,hd,dns,cryptoxl,sl chky ip,p por,ns

SH aa bcmg sdy at base

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

SS cm,fm,fg,calc,p por,ns with thin SH aa

LS cm,v hd,dns,cryptoxl,ns

SH red,gn,sft,arg some sdy ip

LS cm,v hd,dns,cryptoxl,p por,ns

LS cm,fm,foss,gran tex,p por,ns

SH red,v sft,v arg

LS cm,fm,v foss,abnt chky ip,p-fr por,ns

SH gn,sft,arg

SS pale gn,fr,vfg,v arg,p vis por,ns

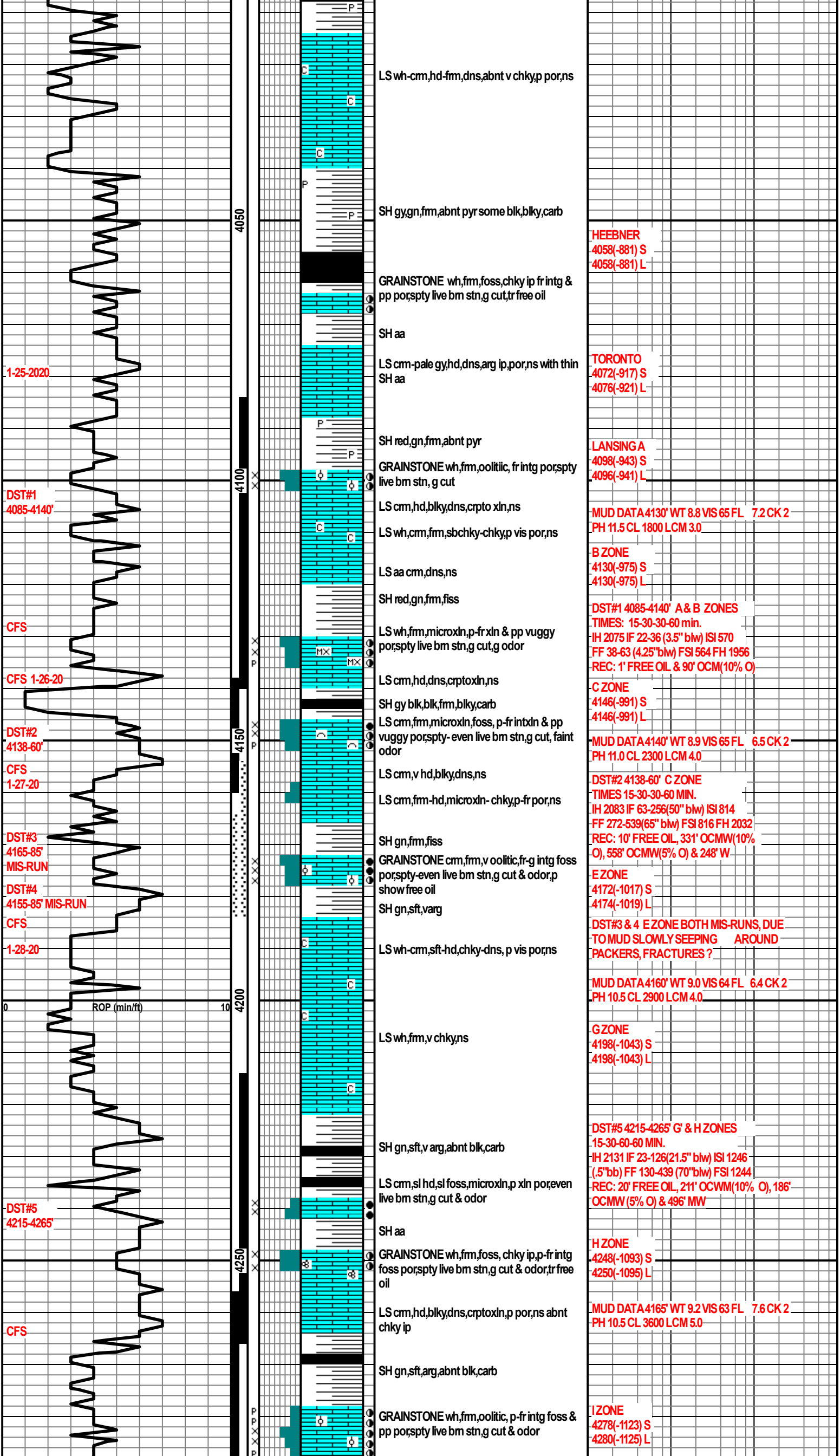
SH red,fm,fiss,arg with thin LS aa

LS aacm,hd,blk,chky ip p por,ns

SH gn,sft,sdy ip,some blk,carb abnt pyr nods

MUD DATA 3757' WT 8.6 VIS 82 FL 6.4 CK 1
PH 12.0 CL 1600 LCM 4.0

TOPEKA
3844(-688) S
3844(-688) L



LS wh-cm,hd-fm,dns,abnt v chky,p por,ns

SH gy,gn,frm,abnt pyr some blk,blky,carb

GRAINSTONE wh,frm,foss,chky ip fr intg & pp por,spty live bm stn,g cut,tr free oil

SH aa

LS cm-pale gy,hd,dns,arg ip,por,ns with thin SH aa

SH red,gn,frm,abnt pyr

GRAINSTONE wh,frm,oolitic, fr intg por,spty live bm stn, g cut

LS cm,hd,blky,dns,crpto xln,ns

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

LS aa cm,dns,ns

SH red,gn,frm,fiss

LS wh,frm,microxln,p-fr xln & pp vuggy por,spty live bm stn,g cut,g odor

LS cm,hd,dns,crptoxln,ns

SH gy blk,blk,frm,blky,carb

LS cm,frm,microxln,foss, p-fr intxln & pp vuggy por,spty- even live bm stn,g cut, faint odor

LS cm,v hd,blky,dns,ns

LS cm,frm-hd,microxln- chky,p-fr por,ns

SH gn,frm,fiss

GRAINSTONE cm,frm,v oolitic,fr-g intg foss por,spty-even live bm stn,g cut & odor,p show free oil

SH gn,sft,varg

LS wh-cm,sft-hd,chky-dns, p vis por,ns

LS wh,frm,v chky,ns

SH gn,sft,v arg,abnt blk,carb

LS cm,sl hd,sl foss,microxln,p xln pore,even live bm stn,g cut & odor

SH aa

GRAINSTONE wh,frm,foss, chky ip,p-fr intg foss por,spty live bm stn,g cut & odor,tr free oil

LS cm,hd,blky,dns,crptoxln,p por,ns abnt chky ip

SH gn,sft,arg,abnt blk,carb

GRAINSTONE wh,frm,oolitic, p-fr intg foss & pp por,spty live bm stn,g cut & odor

HEEBNER
4058(-881) S
4058(-881) L

TORONTO
4072(-917) S
4076(-921) L

LANSING A
4098(-943) S
4096(-941) L

MUD DATA 4130' WT 8.8 VIS 65 FL 7.2 CK 2
PH 11.5 CL 1800 LCM 3.0

B ZONE
4130(-975) S
4130(-975) L

DST#1 4085-4140' A & B ZONES
TIMES: 15-30-30-60 min.
IH 2075 IF 22-36 (3.5" blw) ISI 570
FF 38-63 (4.25"blw) FSI 564 FH 1956
REC: 1' FREE OIL & 90' OCM(10% O)

C ZONE
4146(-991) S
4146(-991) L

MUD DATA 4140' WT 8.9 VIS 65 FL 6.5 CK 2
PH 11.0 CL 2300 LCM 4.0

DST#2 4138-60' C ZONE
TIMES 15-30-30-60 MIN.
IH 2083 IF 63-256(50" blw) ISI 814
FF 272-539(65" blw) FSI 816 FH 2032
REC: 10' FREE OIL, 331' OCMW(10% O), 558' OCMW(5% O) & 248' W

E ZONE
4172(-1017) S
4174(-1019) L

DST#3 & 4 E ZONE BOTH MIS-RUNS, DUE TO MUD SLOWLY SEEPING AROUND PACKERS, FRACTURES ?

MUD DATA 4160' WT 9.0 VIS 64 FL 6.4 CK 2
PH 10.5 CL 2900 LCM 4.0

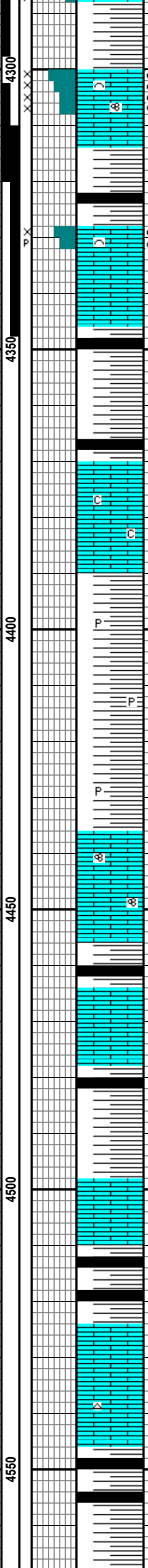
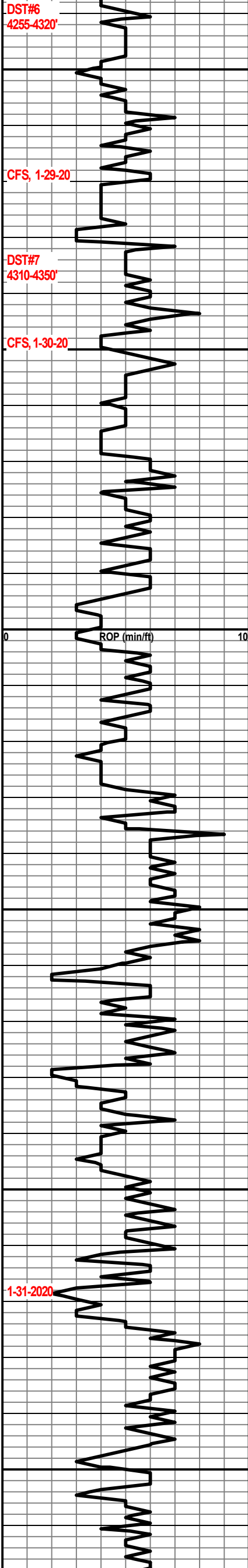
G ZONE
4198(-1043) S
4198(-1043) L

DST#5 4215-4265' G & H ZONES
15-30-60-60 MIN.
IH 2131 IF 23-126(21.5" blw) ISI 1246
(.5"bb) FF 130-439 (70"blw) FSI 1244
REC: 20' FREE OIL, 211' OCMW(10% O), 186' OCMW(5% O) & 496' MW

H ZONE
4248(-1093) S
4250(-1095) L

MUD DATA 4165' WT 9.2 VIS 63 FL 7.6 CK 2
PH 10.5 CL 3600 LCM 5.0

I ZONE
4278(-1123) S
4280(-1125) L



SH aa

GRAINSTONE wh,frm,v foss,fr intg foss & microxn por, spty-even live bm stn,g cut & odor

LS cm,hd,crptoxln,dns,ns

SH gn,sft,v arg,some blk ,carb

LS cm,frm,sl foss,microxn tex,p-fr xln & pp por,spty-even live bm stn,g cut & odor

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

SH aa

LS cm,hd,dns,crptoxln,chky ip,p por,ns

SH red,gn,v sft,arg,abnt pyr

4436-LS cm,sl hd,foss,p vis por,ns

SH gn,blk,frm,carb

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

SH gn,red,sft,arg, abnt blk,carb

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

SH gn,red,frm,fiss,abnt blk, carb

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

LS aa some CHT wh

SH aa v abnt blk,carb

J ZONE
4300(-1145) S
4302(-1147) L

DST#6 4255-4320' I & J ZONE
15-30-60-60 min.
IH 2116 IF 25-54 (14" blw) ISI 238
(surf. bb) FF 54-119 (41" blw) FSI
238 (2" bb) FH 2099
REC: 476' GIP, 186' MCGO & 82' GOCM

MUD DATA 4320' WT 9.0 VIS 85 FL 6.4 CK 2
PH 11.5 CL 2800 LCM 5.0

K ZONE
4328(-1173) S
4332(-1177) L

DST#7 4310-4350' K ZONE
15-30-60-60 min.
IH 2104 IF 22-23 (.5" blw) ISI 44 FF 24-44 FSI
41 FH 2094
REC: 10' MUD

MUD DATA 4350' WT 9.1 VIS 54 FL 7.2 CK 2
PH 11.0 CL 8000 LCM 5.0

SH red,gn,v sft,arg,abnt pyr

4436-LS cm,sl hd,foss,p vis por,ns

SH gn,blk,frm,carb

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

SH gn,red,sft,arg, abnt blk,carb

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

SH gn,red,frm,fiss,abnt blk, carb

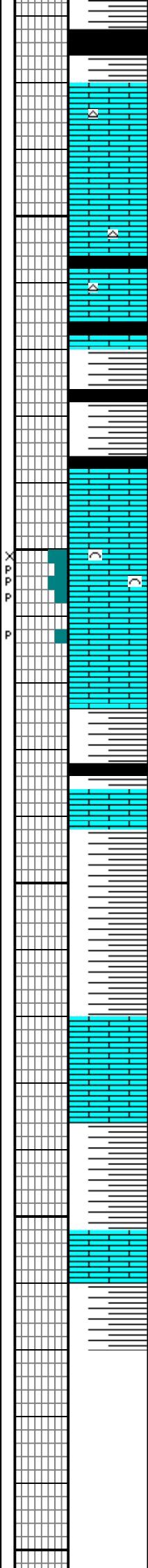
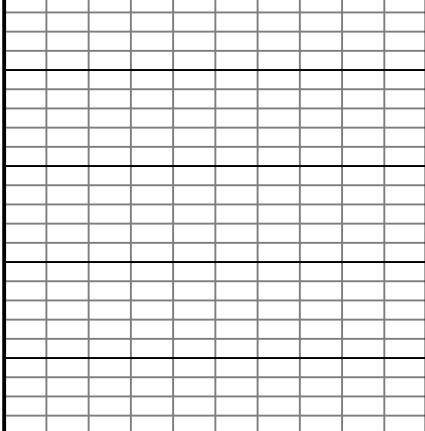
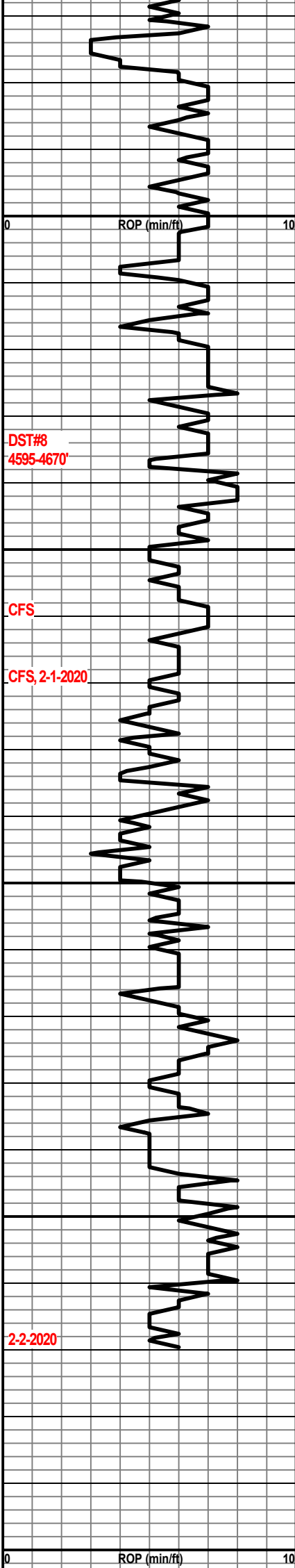
LS cm,v hd,blk,v dns,ns

LS aa some CHT wh

SH aa v abnt blk,carb

PAWNEE
4525(-1370) S
4520(-1365) L

MUD DATA 4537' WT 9.2 VIS 75 FL 7.6 CK 2
PH 10.5 CL 8000 LCM 4.0



LS cm,v hd,dns,blk,y, some chky p por,ns tr
 CHT with thin SH aa

LS aa,chky ip,incr CHT wh with SH aa

SH gn,blk,sl hd,fiss,carb

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

LS cm,sl hd,microxln,foss,p-fr xln & pp
 vuggy por,spty-even live bm stn,g cut &
 odorg show free oil

LS cm,v hd,dns,crptoxln,ms

LS cm,hd,dns,p pp vuggy por,v spty live bm
 stn,g cut & odor

SH gn,blk,frm,fiss,carb

LS aa

SH red,gn,yell,frm,fiss

SH gn,red,yell,sft,v arg

LS cm,v hd,dns,crptoxln,some CHT cm

SH gn,gy,yell,frm,some sdy ip,p por,clay
 filled,ns

LS aa

SH aa

RTD 4770'
 LTD 4771'

FT. SCOTT
 4580(-1425) S
 4578(-1423) L

JOHNSON
 4638(-1483) S
 4638(-1483) L

DST#8 4595-4670' JOHNSON ZONE
 15-30-30-60 MIN.
 IH 2378 IF 35-35 (1" blw) ISI 203 FF
 37-36 FSI 149 FH 2323
 REC: 5' MUD, SPOTS OIL IN TOOL

MUD DATA 4670' WT 9.2 VIS 51 FL 8.0 CK 2
 PH 10.5 CL 8000 LCM 4.0

MISSISSIPPIAN
 4720(-1565) S
 4700(-1545) L

DST#8
 4595-4670'

CFS

CFS, 2-1-2020

2-2-2020

