

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)</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	Murfin Drilling Co., Inc.
Well Name	ANTHOLZ B 2-22
Doc ID	1622537

All Electric Logs Run

DIL
MEL
BHCS
DUCP

DRILLING REPORT - LOG TOPS - ANTHOLZ B 2-22

MDCI Antholz 'B' #2-22 2170' FNL 1100'FEL Sec. 22-2S-37W 3410' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref
Anhydrite	3299	+111	-11	3294	+116	-6
B/Anhydrite	3316	+94	+8	3322	+88	+2
Topeka	4118	-708	-4	4114	-704	Flat
Oread	4252	-842	+3	4254	-844	+1
Lansing	4330	-920	+3	4333	-923	Flat
Stark	4560	-1150	+1	4561	-1151	Flat
Mound City	4606	-1196	+3	4608	-1198	+1
Ft Scott	4736	-1326	+3	4741	-1331	-2
Oakley	4803	-1393	+6	4810	-1400	-1
Mississippian	5028	-1618	----			
RTD	5130					
LTD				5132		

Saman Sharifaie

Petroleum Geologist

GEOLOGIST'S REPORT

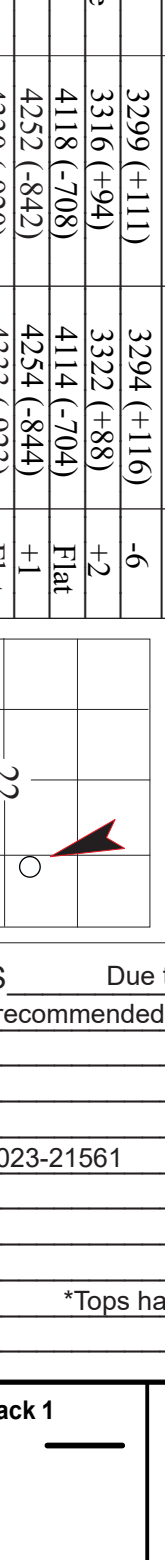
DRILLING TIME AND SAMPLE LOG

COMPANY: **Martin Drilling Co, Inc.**
WELL: **Antholz #2-22**
FIELD: **Widakei**
LOCATION: **2170' F.N.I. & 1100' FEL**
SEC: **22** TWP: **2S** R: **RE** S: **37W**
COUNTY: **Cheyenne** STATE: **Kansas**
CONTRACTOR: **Martin Drilling #10**
RPTD: **11/09/21** COMP: **11/17/91**
SPUD: **5130'** TYPE MUD: **5122'**
MUD UP: **3613'** LITH: **Chemical**

ELEVATIONS
KB 3411'
DF _____
GL 3405'
Measurements Are All From Kelly Bushing
CASING
CONDUCTOR 8-5/8" at 327'
SURFACE 8-5/8" at 125'
PRODUCTION 5-1/2" at 125'

SAMPLES SAVED FROM 4010' TO RTD
DRILLING TIME KEPT FROM 4010' TO RTD
SAMPLES EXAMINED FROM 4010' TO RTD
GEOLOGICAL SUPERVISION FROM 3710'
GEOLOGICAL WELL LOG - Antholz #2-22
CND/DLL: MEL; SANC
REFERENCE WELL LOG - Antholz #2-22
MWD/EST: MZ/ELINE

Formation	Sample Tops	E-log Tops	Strat Pos.
Antholitic	3394 (+111)	3294 (+116)	-6
Base Antholitic	3316 (+94)	3222 (+88)	-2
Topeka	4118 (-708)	4114 (-704)	FTL
Oreola	4352 (-842)	4244 (-844)	FTL
Oreola	4320 (-870)	4333 (-823)	FTL
Stark	4300 (-890)	4301 (-891)	FTL
Mound City	4600 (-1190)	4608 (-1198)	+1
FT Scott	4741 (-1331)	4741 (-1331)	-2
ORKEY	4803 (-1393)	4810 (-1400)	-1



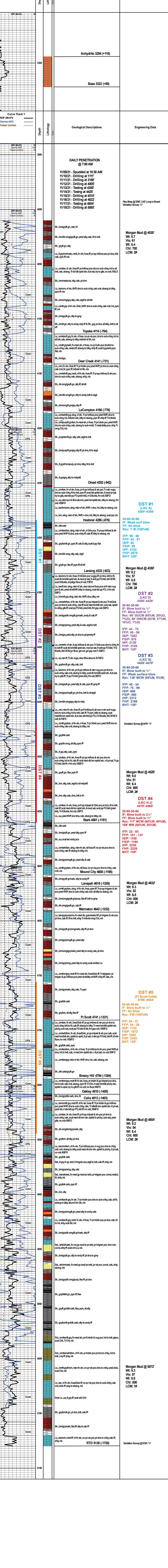
REMARKS Due to poor to fair shows of oil in multiple potential pay zones and negative DST results, it is recommended and agreed upon by all parties that production casing be set to use this well as disposal.

Respectfully Submitted,

API #15-023-21561

Saman Sharifaie
Petroleum Geologist

*Tops have been adjusted to electric logs





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Antholz "B" #2-22

22-2S-37W Cheyenne,KS

Start Date: 2021.11.13 @ 07:51:00

End Date: 2021.11.13 @ 13:59:00

Job Ticket #: 67554 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.19 @ 15:55:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67554

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2021.11.13 @ 07:51:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:31:00

Time Test Ended: 13:59:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: 71

Interval: 4284.00 ft (KB) To 4350.00 ft (KB) (TVD)

Reference Elevations: 3410.00 ft (KB)

Total Depth: 4350.00 ft (KB) (TVD)

3405.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 50.67 psig @ 4285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.13

End Date:

2021.11.13

Last Calib.: 2021.11.13

Start Time: 07:51:01

End Time:

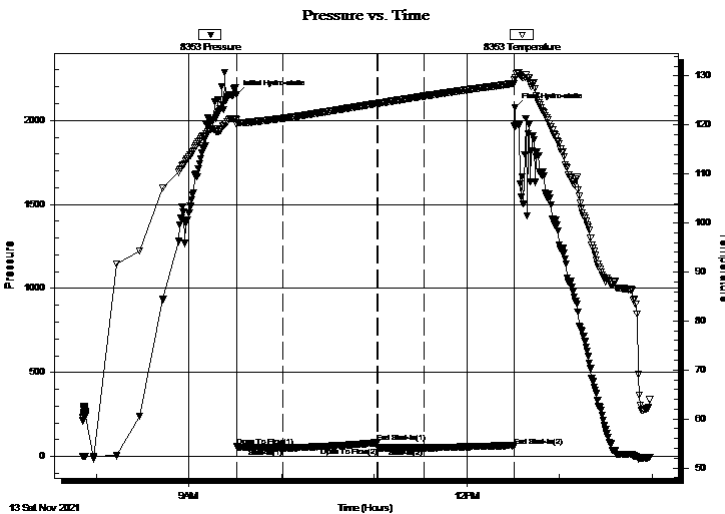
13:59:00

Time On Btm: 2021.11.13 @ 09:30:45

Time Off Btm: 2021.11.13 @ 12:31:15

TEST COMMENT: 30:IF- Weak surface blow died in 3 min
60: IS- No Blow Back
30:FF- No Blow
60:FS- No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.65	121.06	Initial Hydro-static
1	58.08	120.10	Open To Flow (1)
31	49.79	121.36	Shut-In(1)
91	81.98	124.40	End Shut-In(1)
92	54.00	124.41	Open To Flow (2)
122	50.67	125.88	Shut-In(2)
180	59.11	128.46	End Shut-In(2)
181	2078.04	129.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%M	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67554

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2021.11.13 @ 07:51:00

Tool Information

Drill Pipe:	Length: 4157.00 ft	Diameter: 3.80 inches	Volume: 58.31 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 96000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4284.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4257.00	
Hydraulic tool	5.00			4262.00	
Jars	5.00			4267.00	
EM tool	4.00			4271.00	
Safety Joint	3.00			4274.00	
Packer	5.00			4279.00	32.00 Bottom Of Top Packer
Packer	5.00			4284.00	
Stubb	1.00			4285.00	
Recorder	0.00	8353	Inside	4285.00	
Recorder	0.00	8646	Outside	4285.00	
Blank Spacing	34.00			4319.00	
Perforations	26.00			4345.00	
Bullnose	3.00			4348.00	64.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67554

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2021.11.13 @ 07:51:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud 100%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

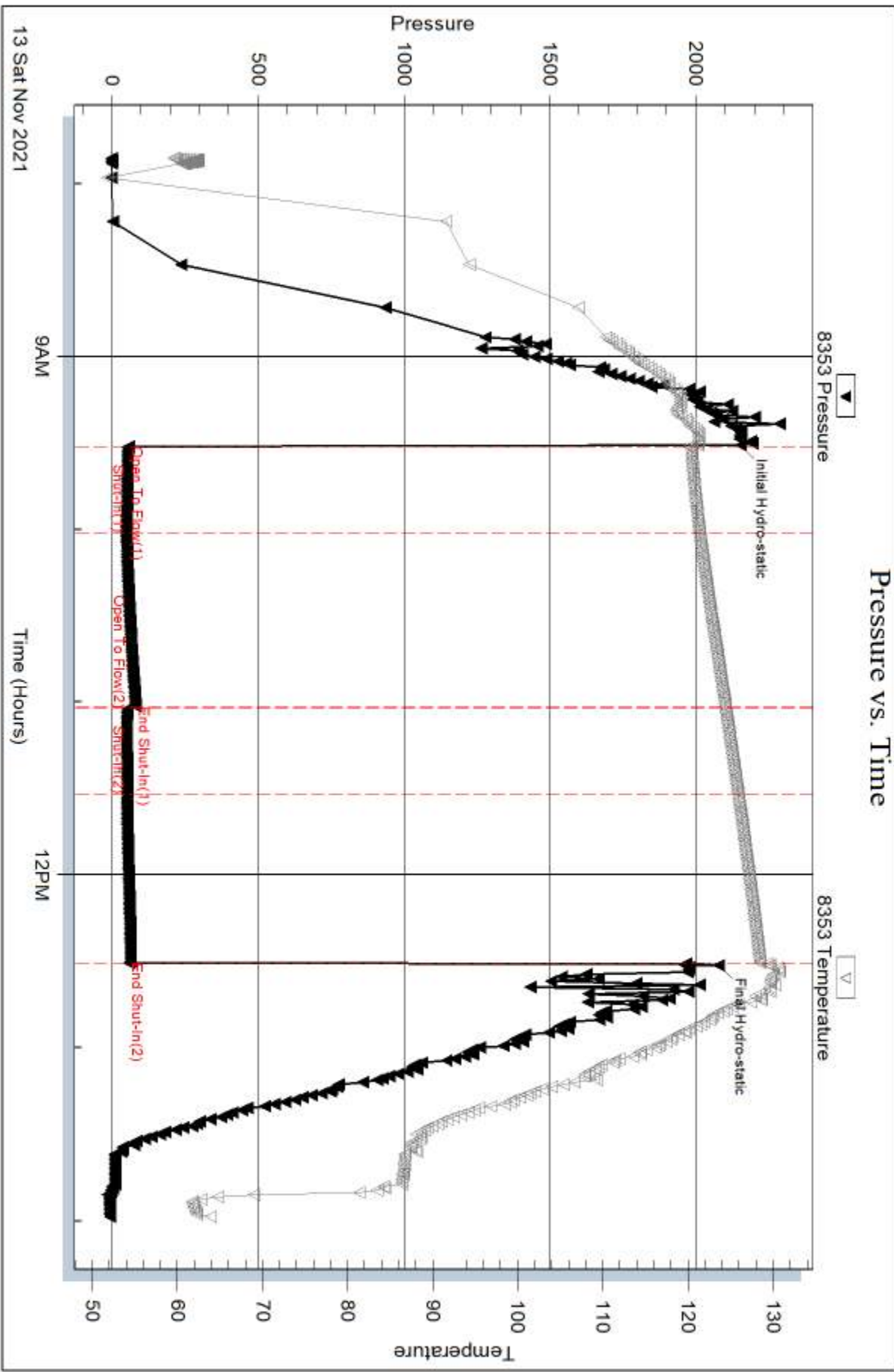
Num Gas Bombs: 0

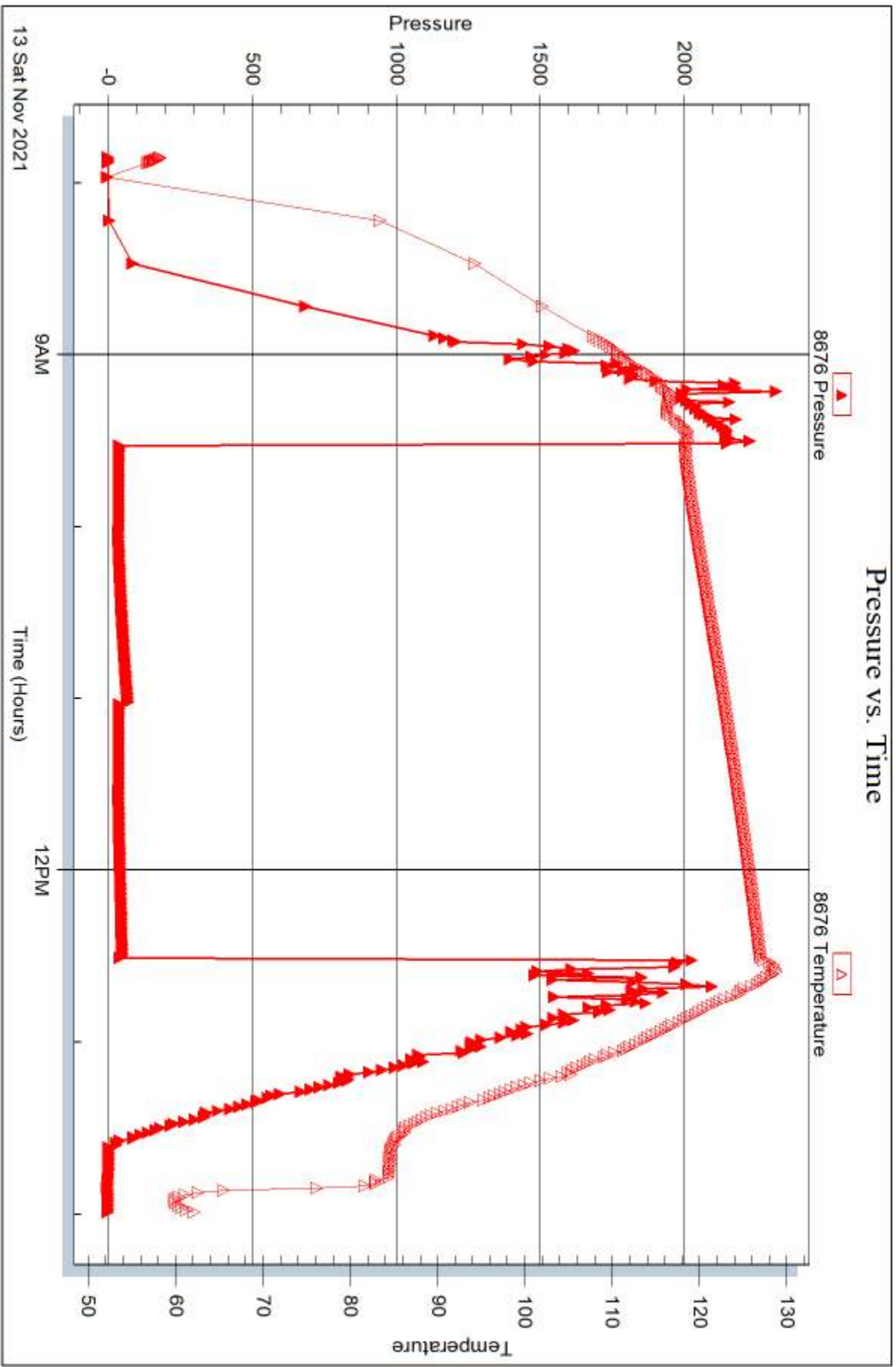
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Antholz "B" #2-22

22-2S-37W Cheyenne,KS

Start Date: 2021.11.14 @ 02:14:00

End Date: 2021.11.14 @ 09:10:45

Job Ticket #: 67555 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.19 @ 09:09:38



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Saman Sharifaie

22-2S-37W Cheyenne,KS
Antholz "B" #2-22
Job Ticket: 67555 **DST#: 2**
Test Start: 2021.11.14 @ 02:14:00

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:16:30
Time Test Ended: 09:10:45
Interval: **4350.00 ft (KB) To 4428.00 ft (KB) (TVD)**
Total Depth: 4428.00 ft (KB) (TVD)
Hole Diameter: 7.87 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Nathan Aneas
Unit No: 71
Reference Elevations: 3410.00 ft (KB)
3405.00 ft (CF)
KB to GR/CF: 5.00 ft

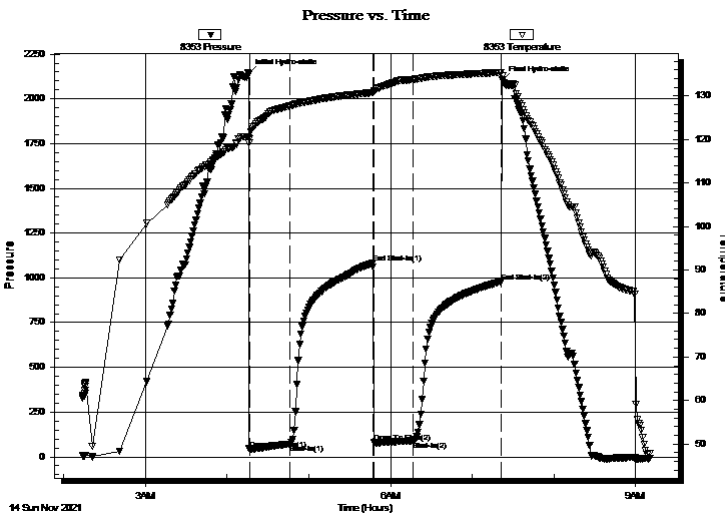
Serial #: 8353

Inside

Press@RunDepth: 87.50 psig @ 4351.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.11.14 End Date: 2021.11.14 Last Calib.: 2021.11.14
Start Time: 02:14:01 End Time: 09:10:45 Time On Btm: 2021.11.14 @ 04:16:00
Time Off Btm: 2021.11.14 @ 07:22:15

TEST COMMENT: 30:IF-Blow built to 1/2 inch in 10 min
60:IS- No Blow back
30:FF-Blow built to 1/4 inch in 10 min
60:FS- No Blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2138.65	120.44	Initial Hydro-static
1	43.96	120.27	Open To Flow (1)
31	72.04	127.77	Shut-In(1)
91	1083.30	130.79	End Shut-In(1)
92	80.18	131.07	Open To Flow (2)
121	87.50	133.81	Shut-In(2)
185	978.49	135.44	End Shut-In(2)
187	2104.57	134.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	OWCM 62%M 27%W 10%O 1%G	0.29
90.00	GOCM 65%M 28%O 7%G	0.73

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67555

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2021.11.14 @ 02:14:00

Tool Information

Drill Pipe:	Length: 4223.00 ft	Diameter: 3.80 inches	Volume: 59.24 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 87000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	4350.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	110.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4323.00	
Hydraulic tool	5.00			4328.00	
Jars	5.00			4333.00	
EM tool	4.00			4337.00	
Safety Joint	3.00			4340.00	
Packer	5.00			4345.00	32.00 Bottom Of Top Packer
Packer	5.00			4350.00	
Stubb	1.00			4351.00	
Recorder	0.00	8353	Inside	4351.00	
Recorder	0.00	8646	Outside	4351.00	
Perforations	9.00			4360.00	
Blank Spacing	65.00			4425.00	
Bullnose	3.00			4428.00	78.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67555

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2021.11.14 @ 02:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	OWCM 62%M 27%W 10%O 1%G	0.285
90.00	GOCM 65%M 28%O 7%G	0.725

Total Length: 148.00 ft

Total Volume: 1.010 bbl

Num Fluid Samples: 0

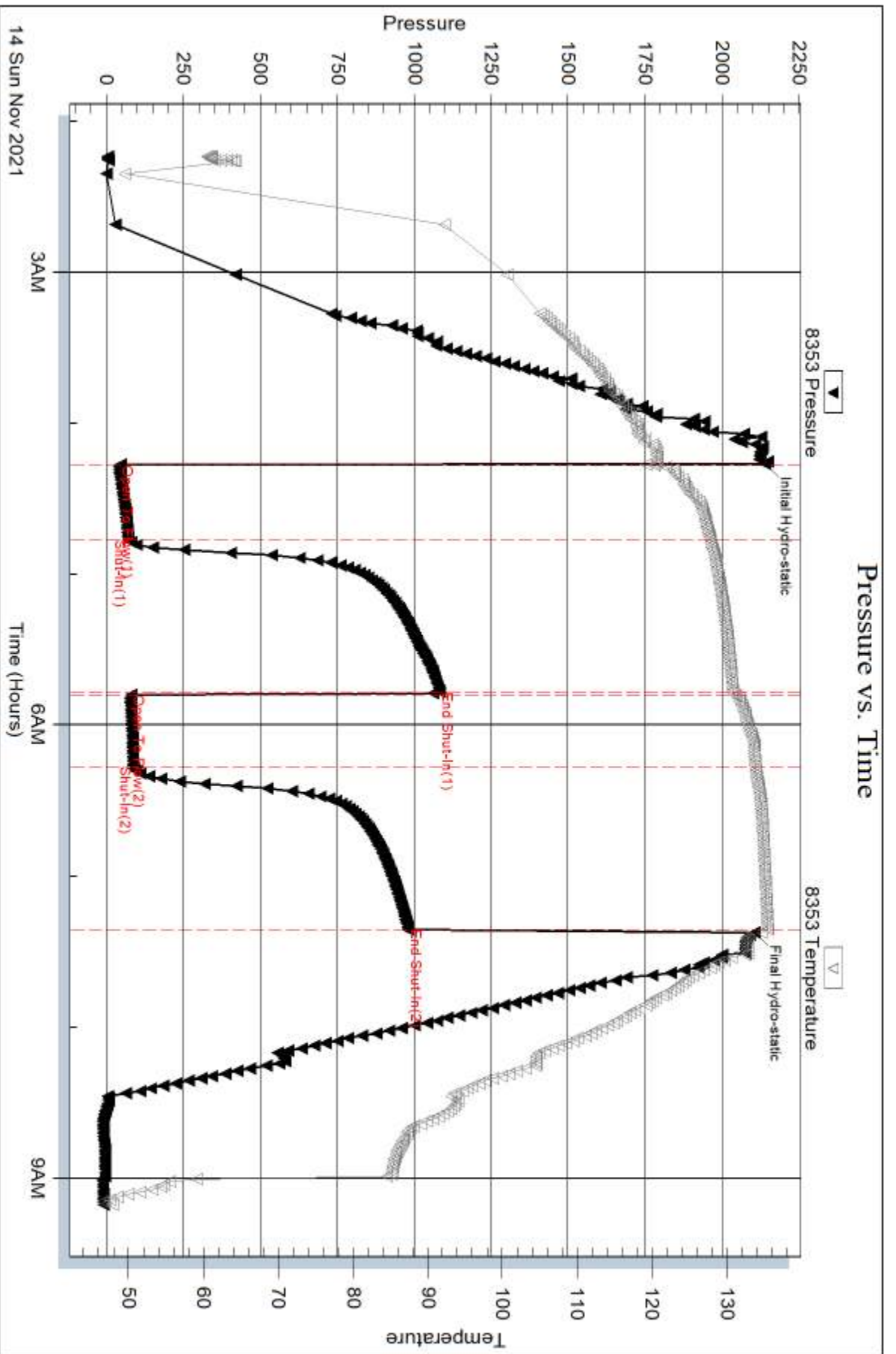
Num Gas Bombs: 0

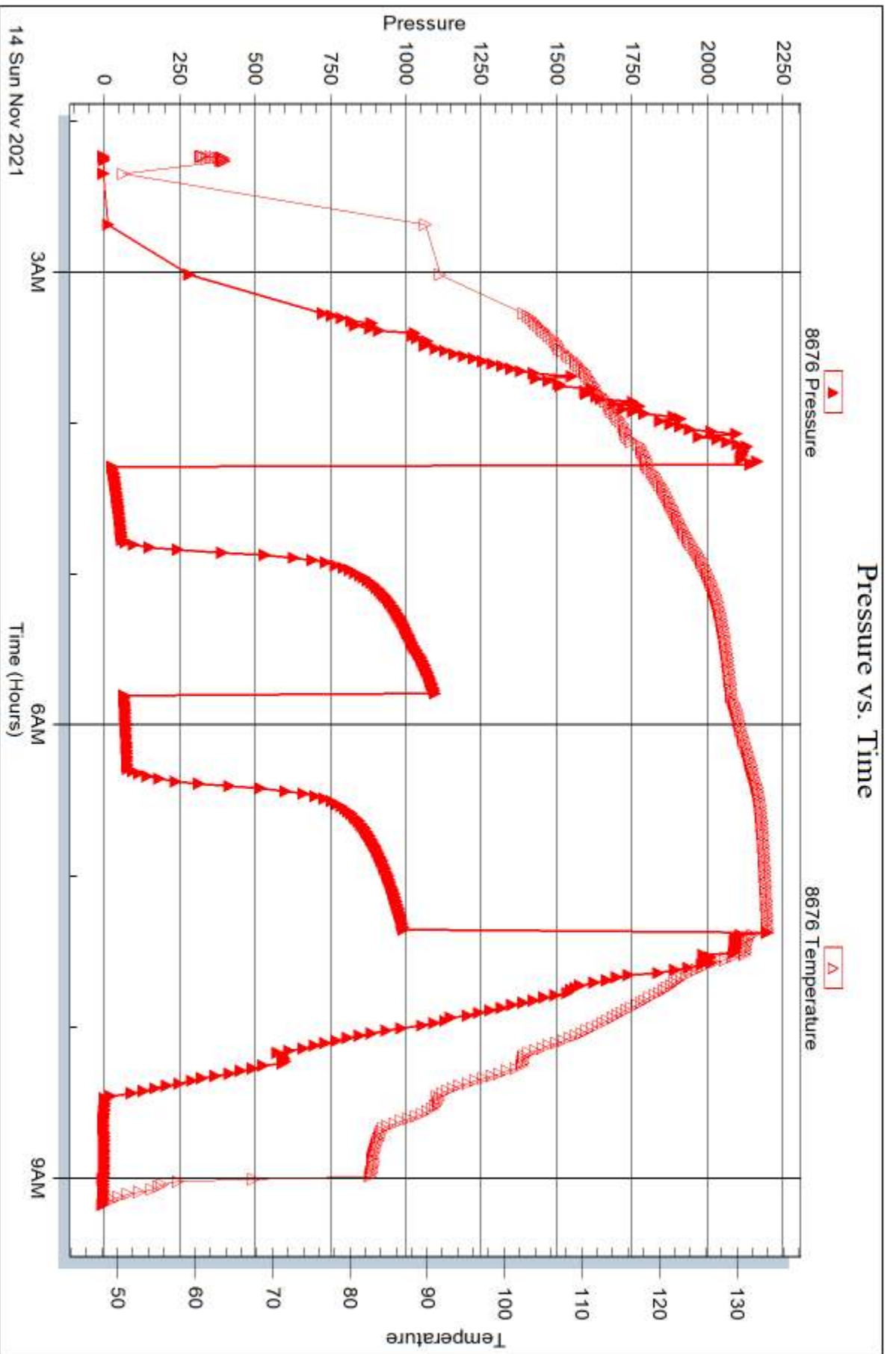
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Antholz "B" #2-22

22-2S-37W Cheyenne,KS

Start Date: 2021.11.14 @ 16:52:00

End Date: 2021.11.15 @ 01:23:45

Job Ticket #: 67556 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.19 @ 09:09:10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Saman Sharifaie

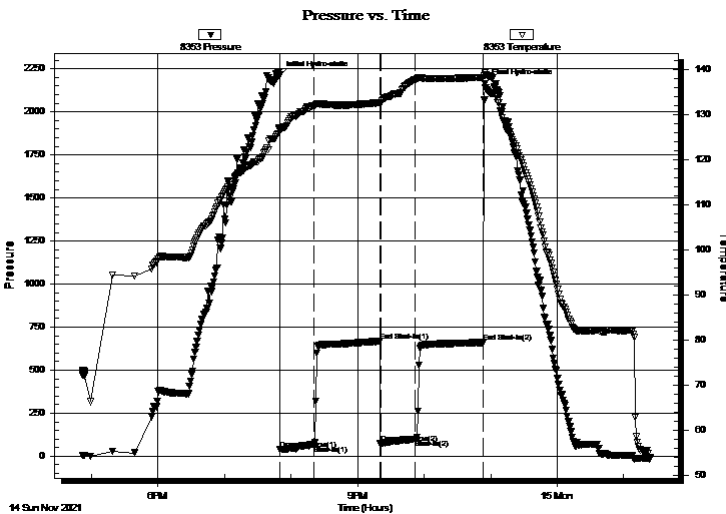
22-2S-37W Cheyenne,KS
Antholz "B" #2-22
Job Ticket: 67556 **DST#: 3**
Test Start: 2021.11.14 @ 16:52:00

GENERAL INFORMATION:

Formation: **LKC "G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:50:00
Time Test Ended: 01:23:45
Interval: **4428.00 ft (KB) To 4470.00 ft (KB) (TVD)**
Total Depth: 4470.00 ft (KB) (TVD)
Hole Diameter: 7.87 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Nathan Aneas
Unit No: 71
Reference Elevations: 3410.00 ft (KB)
3405.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8353 Inside
Press@RunDepth: 98.70 psig @ 4431.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.11.14 End Date: 2021.11.15 Last Calib.: 2021.11.15
Start Time: 16:52:01 End Time: 01:23:45 Time On Btm: 2021.11.14 @ 19:49:30
Time Off Btm: 2021.11.14 @ 22:54:45

TEST COMMENT: 30:IF- Weak surface blow , built to 1/4 inch in 10 min and stayed the same for 30 min
60:IS- No Blow back
30:FF- No Blow
60:FS- No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2212.65	126.99	Initial Hydro-static
1	40.35	126.60	Open To Flow (1)
31	63.85	131.76	Shut-In(1)
91	667.54	132.64	End Shut-In(1)
91	75.17	132.57	Open To Flow (2)
122	98.70	137.63	Shut-In(2)
184	660.46	138.26	End Shut-In(2)
186	2165.98	139.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
138.00	MCW 95%M 5%W	0.87

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67556

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2021.11.14 @ 16:52:00

Tool Information

Drill Pipe:	Length: 4287.00 ft	Diameter: 3.80 inches	Volume: 60.14 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4428.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4401.00	
Hydraulic tool	5.00			4406.00	
Jars	5.00			4411.00	
EM tool	4.00			4415.00	
Safety Joint	3.00			4418.00	
Packer	5.00			4423.00	32.00 Bottom Of Top Packer
Packer	5.00			4428.00	
Stubb	1.00			4429.00	
Perforations	2.00			4431.00	
Recorder	0.00	8353	Inside	4431.00	
Recorder	0.00	8646	Outside	4431.00	
Blank Spacing	0.00			4431.00	
Perforations	36.00			4467.00	
Bullnose	3.00			4470.00	42.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67556

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2021.11.14 @ 16:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
138.00	MCW 95%M 5%W	0.870

Total Length: 138.00 ft Total Volume: 0.870 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

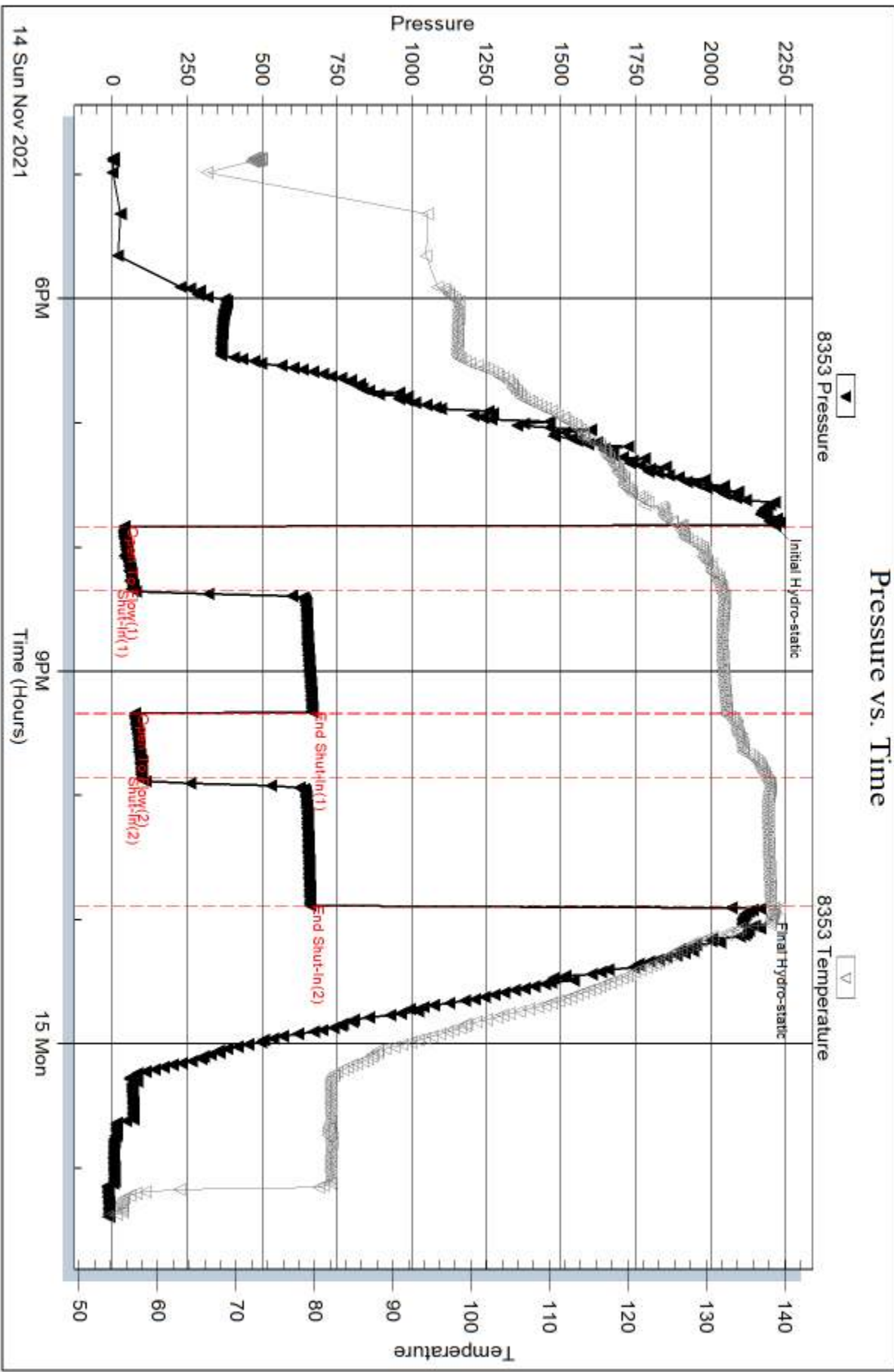
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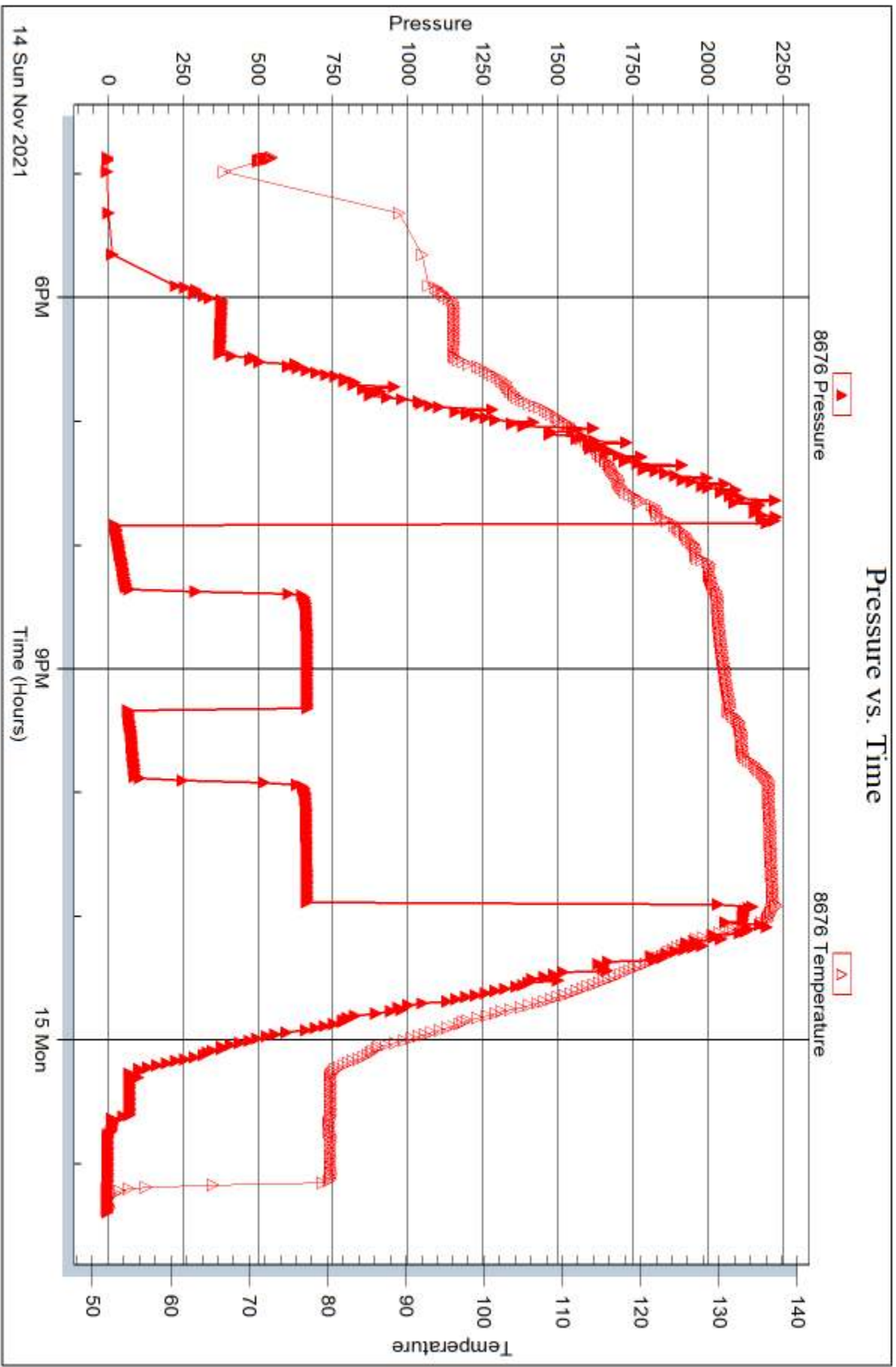
Inside

Marfin Drilling Co

Anthoz "B" #2-22

DST Test Number: 3







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Antholz "B" #2-22

22-2S-37W Cheyenne,KS

Start Date: 2021.11.15 @ 14:00:00

End Date: 2021.11.15 @ 22:27:15

Job Ticket #: 67557 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.11.19 @ 09:08:40



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N Water Ste 300
 Wichita, KS 67202
 ATTN: Saman Sharifaie

22-2S-37W Cheyenne,KS
Antholz "B" #2-22
 Job Ticket: 67557 **DST#: 4**
 Test Start: 2021.11.15 @ 14:00:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:11:45
 Time Test Ended: 22:27:15
 Interval: **4470.00 ft (KB) To 4560.00 ft (KB) (TVD)**
 Total Depth: 4560.00 ft (KB) (TVD)
 Hole Diameter: 7.87 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Nathan Aneas
 Unit No: 71
 Reference Elevations: 3410.00 ft (KB)
 3405.00 ft (CF)
 KB to GR/CF: 5.00 ft

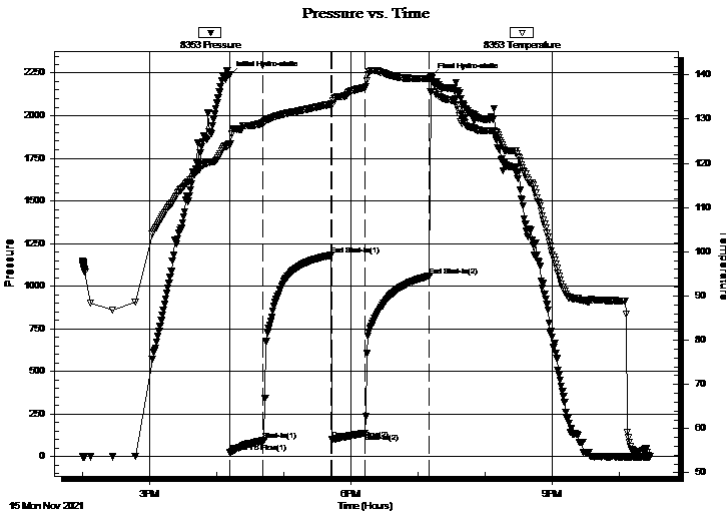
Serial #: 8353

Inside

Press@RunDepth: 137.26 psig @ 4471.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.11.15 End Date: 2021.11.15 Last Calib.: 2021.11.15
 Start Time: 14:00:01 End Time: 22:27:15 Time On Btm: 2021.11.15 @ 16:11:15
 Time Off Btm: 2021.11.15 @ 19:11:30

TEST COMMENT: 30:IF- Blow built to 2 1/4 inch in 10 min then died to 1 1/2 inch in 30 min
 60:IS- No blow back
 30:FF- Blow built to 1/2 inch in 10 min then died off
 60:FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2237.61	124.38	Initial Hydro-static
1	22.14	124.03	Open To Flow (1)
31	93.16	129.24	Shut-In(1)
91	1180.46	133.38	End Shut-In(1)
92	101.38	133.35	Open To Flow (2)
122	137.26	137.15	Shut-In(2)
179	1060.07	139.12	End Shut-In(2)
181	2226.07	139.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
117.00	MCW 60%W 40%M	0.58
189.00	MW 80%W 20%M	2.65

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67557

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2021.11.15 @ 14:00:00

Tool Information

Drill Pipe:	Length: 4350.00 ft	Diameter: 3.80 inches	Volume: 61.02 bbl	Tool Weight:	20000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	92000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	89000.00 lb
Depth to Top Packer:	4470.00 ft			Final	89000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	122.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4443.00	
Hydraulic tool	5.00			4448.00	
Jars	5.00			4453.00	
EM tool	4.00			4457.00	
Safety Joint	3.00			4460.00	
Packer	5.00			4465.00	32.00 Bottom Of Top Packer
Packer	5.00			4470.00	
Stubb	1.00			4471.00	
Recorder	0.00	8353	Inside	4471.00	
Recorder	0.00	8646	Outside	4471.00	
Perforations	21.00			4492.00	
Change Over Sub	1.00			4493.00	
Blank Spacing	63.00			4556.00	
Change Over Sub	1.00			4557.00	
Bullnose	3.00			4560.00	90.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67557

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2021.11.15 @ 14:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
117.00	MCW 60%W 40%M	0.575
189.00	MW 80%W 20%M	2.651

Total Length: 306.00 ft Total Volume: 3.226 bbl

Num Fluid Samples: 0

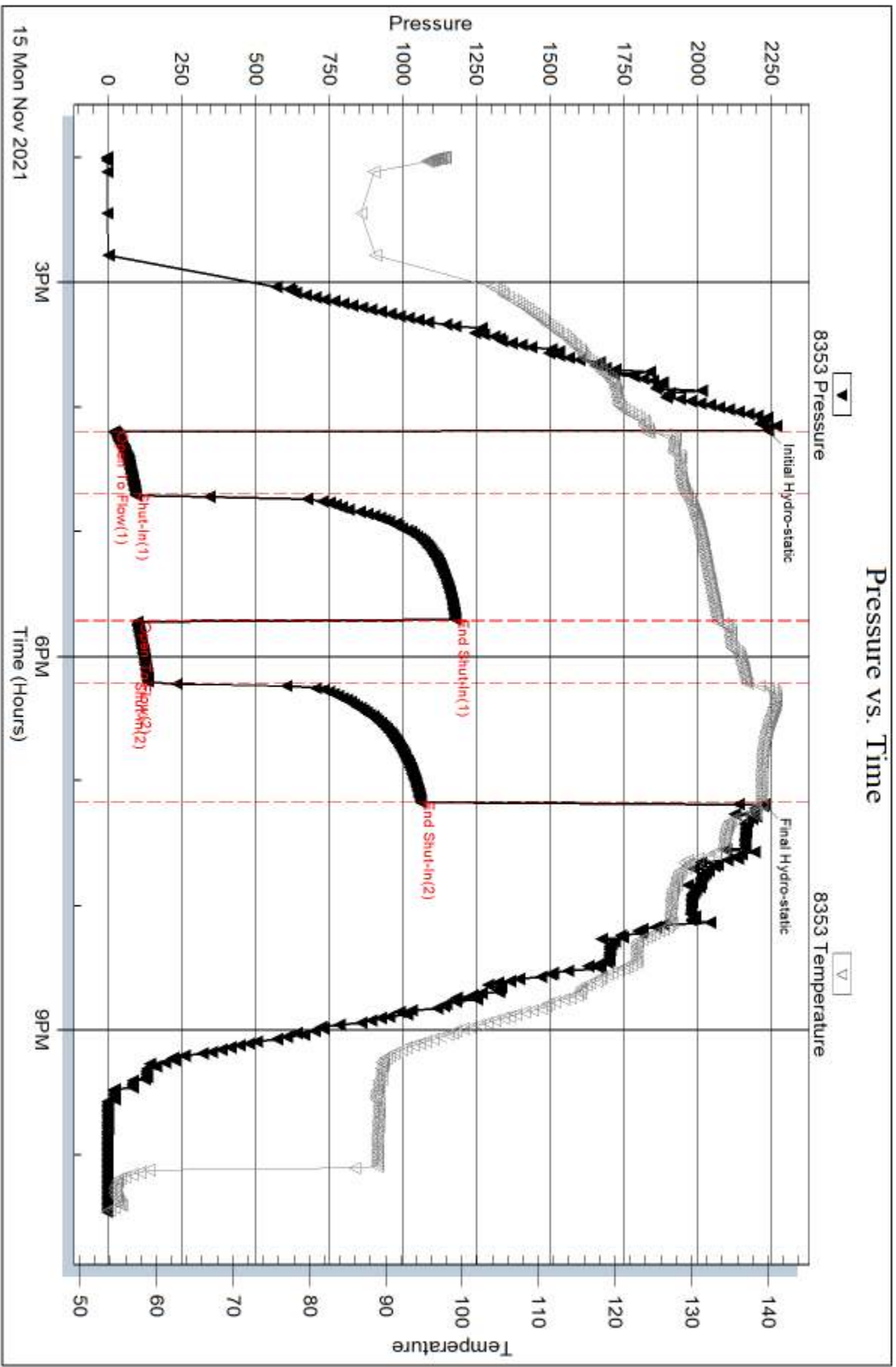
Num Gas Bombs: 0

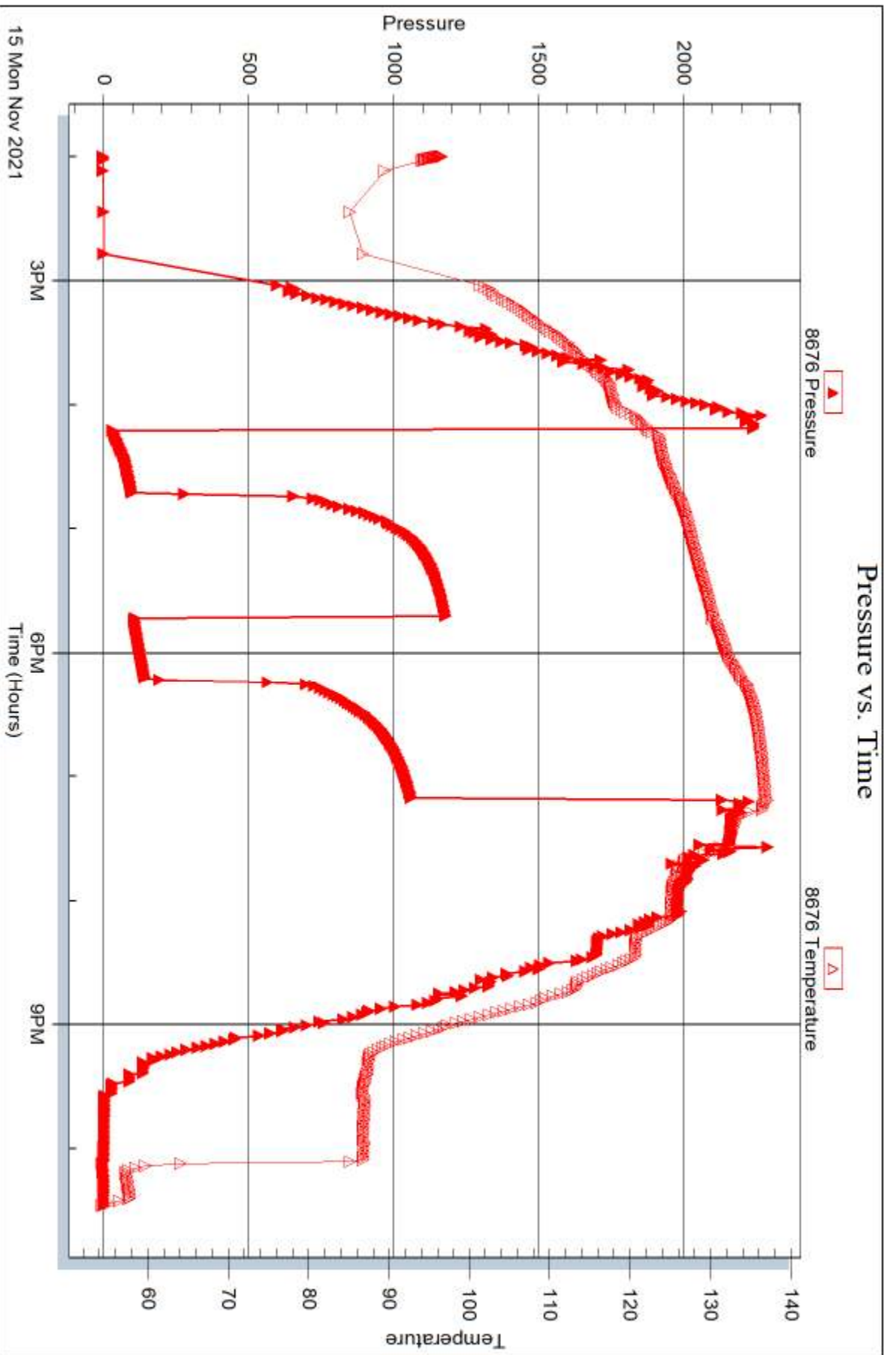
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Antholz "B" #2-22

22-2S-37W Cheyenne,KS

Start Date: 2021.11.17 @ 07:00:00

End Date: 2021.11.17 @ 14:11:00

Job Ticket #: 67558 DST #: 5

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

Printed: 2021.11.19 @ 09:08:02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Saman Sharifaie

22-2S-37W Cheyenne,KS
Antholz "B" #2-22
Job Ticket: 67558 **DST#: 5**
Test Start: 2021.11.17 @ 07:00:00

GENERAL INFORMATION:

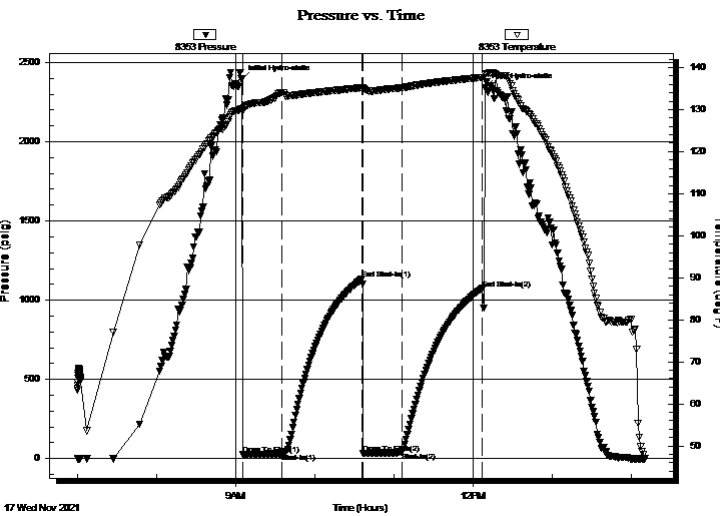
Formation: **Ft Scott - Celia**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:05:30
Time Test Ended: 14:11:00
Interval: **4706.00 ft (KB) To 4854.00 ft (KB) (TVD)**
Total Depth: 4854.00 ft (KB) (TVD)
Hole Diameter: 7.87 inches Hole Condition: Fair
Reference Elevations: 3410.00 ft (KB)
3405.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Nathan Aneas
Unit No: 71

Serial #: 8353

Inside

Press@RunDepth: 38.27 psig @ 4707.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.11.17 End Date: 2021.11.17 Last Calib.: 2021.11.17
Start Time: 07:00:01 End Time: 14:11:00 Time On Btm: 2021.11.17 @ 09:04:45
Time Off Btm: 2021.11.17 @ 12:09:15

TEST COMMENT: 30:IF- Weak surface blow , built to 1/4 inch in 10 min then died out
60:IS- No blow back
30:FF- No blow
60:- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2392.28	130.08	Initial Hydro-static
1	24.42	129.91	Open To Flow (1)
31	30.54	134.04	Shut-In(1)
91	1132.54	135.21	End Shut-In(1)
92	33.92	134.99	Open To Flow (2)
122	38.27	135.18	Shut-In(2)
182	1072.33	137.65	End Shut-In(2)
185	2341.78	138.39	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67558

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2021.11.17 @ 07:00:00

Tool Information

Drill Pipe:	Length: 4574.00 ft	Diameter: 3.80 inches	Volume: 64.16 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 92000.00 lb
Depth to Top Packer:	4706.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	148.00 ft			
Tool Length:	180.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4679.00	
Hydraulic tool	5.00			4684.00	
Jars	5.00			4689.00	
EM tool	4.00			4693.00	
Safety Joint	3.00			4696.00	
Packer	5.00			4701.00	32.00 Bottom Of Top Packer
Packer	5.00			4706.00	
Stubb	1.00			4707.00	
Recorder	0.00	8353	Inside	4707.00	
Recorder	0.00	8646	Outside	4707.00	
Perforations	16.00			4723.00	
Change Over Sub	1.00			4724.00	
Blank Spacing	126.00			4850.00	
Change Over Sub	1.00			4851.00	
Bullnose	3.00			4854.00	148.00 Bottom Packers & Anchor

Total Tool Length: 180.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

22-2S-37W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Antholz "B" #2-22

Job Ticket: 67558

DST#: 5

ATTN: Saman Sharifaie

Test Start: 2021.11.17 @ 07:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8353

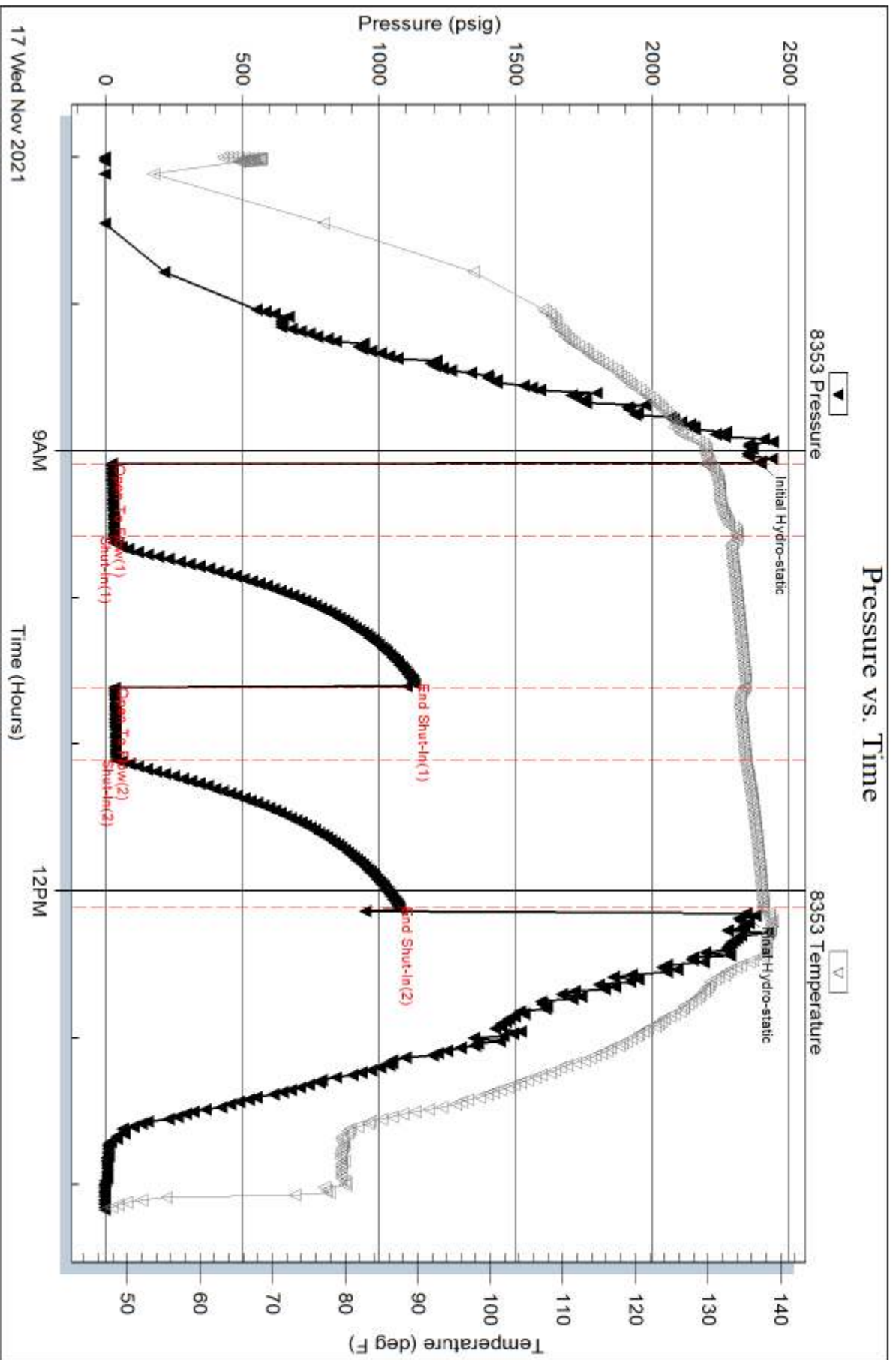
Inside

Murfin Drilling Co

Anchor "B" #2-22

DST Test Number: 5

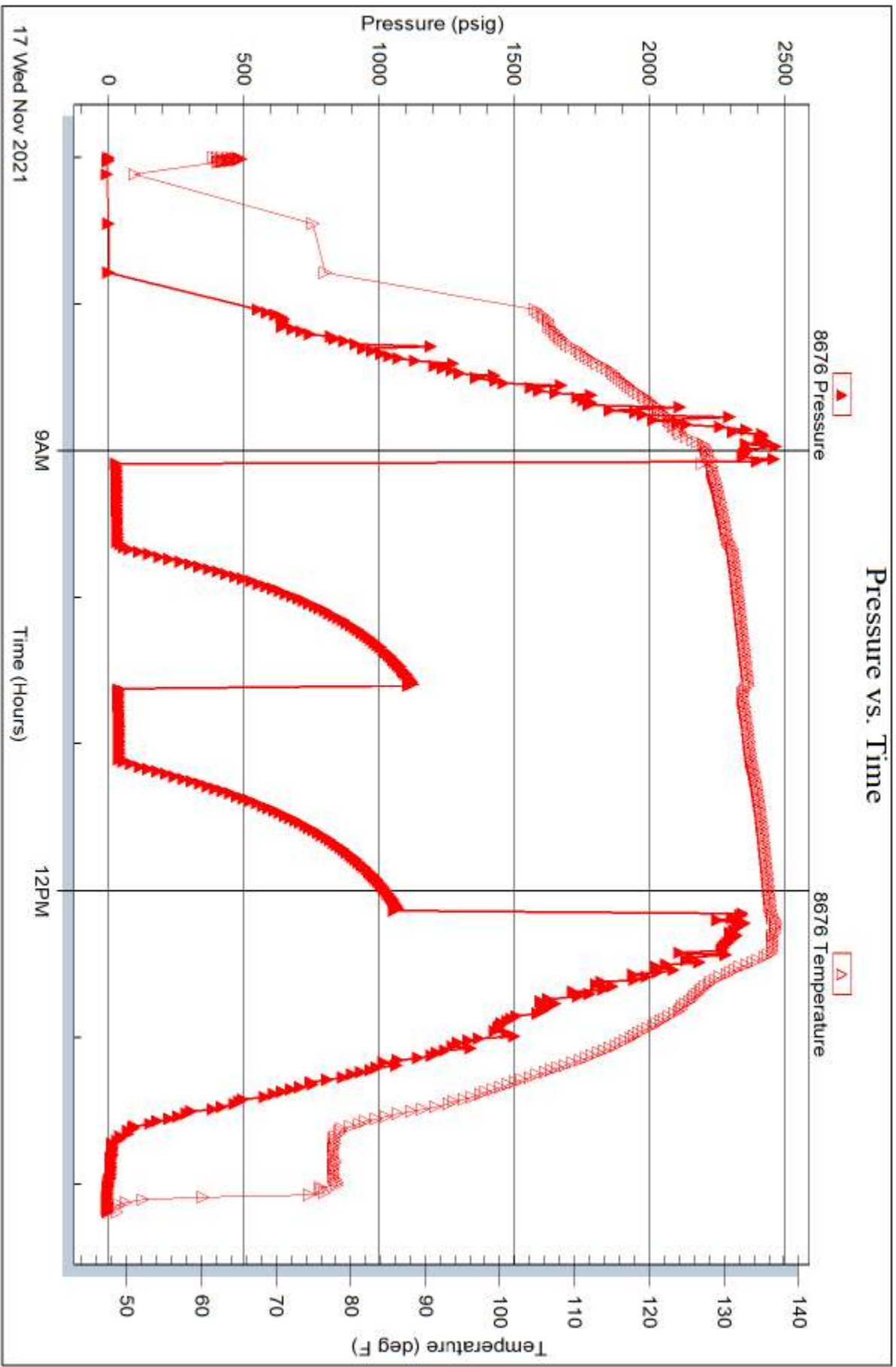
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 67558

Printed: 2021.11.19 @ 09:08:03





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67554 26557

Well Name & No. Antholz "B" # 2-22 Test No. 1 Date 11/13/21
 Company Murfin Drilling Co. Inc. Elevation 3410 KB 3405 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Sharifate Rig Murfin #110
 Location: Sec. 22 Twp 29 Rge. 37W Co. Cheyenne State KS

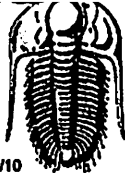
Interval Tested 4284 - 4350 Zone Tested LKC "A"
 Anchor Length 64 Drill Pipe Run 4157 Mud Wt. 8.7
 Top Packer Depth 4279 Drill Collars Run 117 Vis 61
 Bottom Packer Depth 4284 Wt. Pipe Run _____ WL 6.4
 Total Depth 4350 Chlorides 700 ppm System LCM 2
 Blow Description IF: Weak surface blow died in 3 min
ISI: No Blow Back
FF: No Blow
FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>Mud</u>			<u>100</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 1' BHT 129 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2153 Test 1450 T-On Location 5:45
 (B) First Initial Flow 58 Jars 250 T-Started 7:51
 (C) First Final Flow 49 Safety Joint 75 T-Open 9:31
 (D) Initial Shut-In 82 Circ Sub _____ T-Pulled ~~11:05~~ 12:30
 (E) Second Initial Flow 54 Hourly Standby _____ T-Out ~~13:05~~ 14:05
 (F) Second Final Flow 50 Mileage 116 RT 145 Comments _____
 (G) Final Shut-In 59 Sampler _____
 (H) Final Hydrostatic 2078 Straddle _____ EM Tool 350 NS
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1920
 Sub Total 1920 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67555

Well Name & No. Antholz 'B' #2-22 Test No. 2 Date 11/19/21
 Company Murfin Drilling Co Inc Elevation 3410 KB 3405 GL
 Address 250 N Water Ste 300 Wichita, KS
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #110
 Location: Sec. 22 Twp 2s Rge. 37W Co. Cheyenne State KS

Interval Tested 4350-4428 Zone Tested LKC "D"
 Anchor Length 78 Drill Pipe Run 4223 Mud Wt. 9.2
 Top Packer Depth 4345 Drill Collars Run 117 Vis 57
 Bottom Packer Depth 4350 Wt. Pipe Run _____ WL 6.8
 Total Depth 4428 Chlorides 700 ppm System LCM 2

Blow Description IF: Blow built to 1/2 inch in 10 min
ISI: No Blow back
FF: Blow built to 1/4 inch in 10 min
FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>GOCM</u>	<u>7</u>	<u>28</u>	<u>65</u>	
<u>58</u>	<u>OWCM</u>	<u>1</u>	<u>10</u>	<u>27</u>	<u>62</u>
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

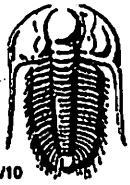
Rec Total 148 BHT 134 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2139 Test 1450 T-On Location 1:00 AM
 (B) First Initial Flow 44 Jars 250 T-Started 2:14 AM
 (C) First Final Flow 72 Safety Joint 75 T-Open 4:16 AM
 (D) Initial Shut-In 1083 Circ Sub _____ T-Pulled 7:30 AM
 (E) Second Initial Flow 80 Hourly Standby _____ T-Out 9:05 AM
 (F) Second Final Flow 87 Mileage 116 RT 145' Comments _____
 (G) Final Shut-In 978 Sampler _____
 (H) Final Hydrostatic 2104 Straddle _____ EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1920 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 350
 Total 2270

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67556

Well Name & No. Antholz 'B' #2-22 Test No. 3 Date 11/14/21
 Company Murfin Drilling Co. Inc. Elevation 3410 KB 3405 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #110
 Location: Sec. 22 Twp 2S Rge. 37W Co. Cheyenne State KS

Interval Tested 4428 - 4470 Zone Tested LKC 'G'
 Anchor Length 42 Drill Pipe Run 4287 Mud Wt. 9.1
 Top Packer Depth 4423 Drill Collars Run 117 Vis SS
 Bottom Packer Depth 4428 Wt. Pipe Run _____ WL 6
 Total Depth 4470 Chlorides 700 ppm System LCM 3
 Blow Description IF: weak surface blow / Built to 1/4 inch in 10 min
ISI: No Blow back (stayed the same for 30 min)
FF: NO Blow
FSI: NO Blow back

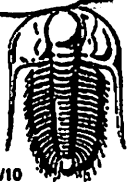
Rec	Feet of	%gas	%oil	%water	%mud
<u>138</u>	<u>MCW</u>			<u>5</u>	<u>95</u>
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 138 BHT 139° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2212 Test 1450 T-On Location 15:45
 (B) First Initial Flow 40 Jars 250 T-Started 16:52
 (C) First Final Flow 64 Safety Joint 75 T-Open 19:50
 (D) Initial Shut-In 667 Circ Sub _____ T-Pulled 22:53
 (E) Second Initial Flow 75 Hourly Standby _____ T-Out 1:30 AM
 (F) Second Final Flow 99 Mileage 116 RT 145 Comments _____
 (G) Final Shut-In 660 Sampler _____
 (H) Final Hydrostatic ~~2165~~ 2166 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 2270
 Sub Total 1920 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67557

Well Name & No. Antholz B #2-22 Test No. 4 Date 11/15/21
 Company Murfin Drilling Co Inc. Elevation 3410 KB 3405 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #110
 Location: Sec. 22 Twp 2S Rge. 37W Co. Cheyenne State KS

Interval Tested 4470-4560 Zone Tested LXC "H-J"
 Anchor Length 90 Drill Pipe Run 4350 Mud Wt. 9.0
 Top Packer Depth 4465 Drill Collars Run 117 Vis 51
 Bottom Packer Depth 4470 Wt. Pipe Run _____ WL 6.4
 Total Depth 4560 Chlorides 800 ppm System LCM 2

Blow Description IF: Blow built to 2 1/4 inch in 10 min then died to 1 1/2 in 30 min
FSI: No blow back
FF: Blow built to 1/2 inch in 10 min then died out
FSI: No blow back

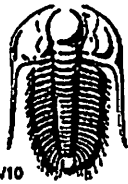
Rec	Feet of	%gas	%oil	%water	%mud
<u>189</u>	<u>189 MCW</u>		<u>80</u>	<u>20</u>	
<u>117</u>	<u>MW</u>		<u>60</u>	<u>40</u>	
<u>117</u>					

Rec Total 306 BHT ~~139~~ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2238</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>11:45</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:00</u>
(C) First Final Flow <u>93</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open _____
(D) Initial Shut-In <u>1180</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>18:45</u>
(E) Second Initial Flow <u>101</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>21:30</u>
(F) Second Final Flow <u>137</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT</u> 145	Comments _____
(G) Final Shut-In <u>1060</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2226</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2270</u>
	Sub Total <u>1920</u>	MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67558

Well Name & No. Antholz B #2-22 Test No. 5 Date 11/17/21
 Company Murfin Drilling Co. Inc Elevation 3410 KB 3405 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Gen. Saman Sharifaie Rig Murfin #110
 Location: Sec. 22 Twp 23 Rge. 37 W Co. Cheyenne State KS

Interval Tested 4706 - 4854 Zone Tested Ft Scott - Celia
 Anchor Length 148 Drill Pipe Run 4574 Mud Wt. 9.3
 Top Packer Depth 4701 Drill Collars Run 117 Vls 52
 Bottom Packer Depth 4706 Wt. Pipe Run _____ WL 6.8
 Total Depth 4854 Chlorides 800 ppm System LCM 2

Blow Description IF: Weak surface blow, built to 1/4 inch in 10 min then died out
ISI: No blow back
PF: No Blow
FSI: No Blow back

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

Rec Total 5 BHT 130 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2392 Test 1450 T-On Location 3:00 Am
 (B) First Initial Flow 24 Jars 250 T-Started 7:00 Am
 (C) First Final Flow 30 Safety Joint 75 T-Open 9:05 Am
 (D) Initial Shut-In 1132 Circ Sub _____ T-Pulled 12:30
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 14:00
 (F) Second Final Flow 38 Mileage 116 RT 145 Comments _____
 (G) Final Shut-In 1072 Sampler _____
 (H) Final Hydrostatic 2342 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 2270
 Sub Total 1920 ME/DST Disc't _____

Approved By _____ Our Representative [Signature]

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