

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	Murfin Drilling Co., Inc.
Well Name	FRISBIE 'B' 2-15
Doc ID	1628173

All Electric Logs Run

DIL
MEL
BHCS
DUCP







**CEMENT TREATMENT REPORT**

Customer: Murfin Drilling	Well: Frisbie B #2-15	Ticket: WP2284
City, State: Oakley KS	County: Rawlins KS	Date: 1/5/2022
Field Rep: Arturo	S-T-R: 15-2S-35W	Service: PTA

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	3075 ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	4800 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbls

Calculated Slurry - Lead	
Blend:	h-plug
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	0.0406 bbs / ft.
Depth:	3075 ft
Annular Volume:	124.8 bbls
Excess:	
Total Slurry:	60.7 bbls
Total Sacks:	240 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
230p			-	-	convoy arrives on location
235p				-	jsa
240p				-	spot in trucks
250p				-	rig in pumps and lines
300p				-	standby
329p			5.0	5.0	h2o ahead
331p	4.0	500.0	12.7	17.7	pump lead slurry, 50sks @ 13.8 ppg @3075'
335p	12.0	400.0	36.0	53.7	rig displaces plug
342p					shut down
430p			5.0	58.7	h2o ahead
432p	4.0	400.0	25.3	84.0	pump lead slurry, 100 sks @ 13.8 ppg @2300'
441p	5.0	400.0	22.0	106.0	displacement
446p					shut down
603p			5.0		h2o ahead
605p	5.0	350.0	12.7		pump lead slurry 50 sks @13.8 ppg @375'
608p			1.0		displacement
610p					shut down
720p			2.0		h2o ahead
722p	2.0	170.0	7.6		pump 30 sks @13.8 ppg rat hole
725p					shut down
731p	2.0	170.0	3.9		pump 15 sks @ 13.8 ppg mouse hole
732p					shut down
736p			1.0		h2o ahead
737p	2.0	170.0	2.5		pump 10 sks @ 13.8 ppg top out @40'
739p					plug down
740p					wash pumps and lines
750p					rig down
806p					depart location

CREW		UNIT	SUMMARY		
Cementer:	thomas dundas	914	Average Rate	Average Pressure	Total Fluid
Pump Operator:	John	208	4.5 bpm	320 psi	142 bbls
Bulk #1:	Trevino/Jose	242			
Bulk #2:	Mo	73			

## DRILLING REPORT - LOG TOPS - FRISBIE B 2-15

MDCI Frisbie 'B' #2-15 1250' FSL 2640'FWL Sec. 15-2S-35W 3195' KB
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Formation	Sample top	Datum	Ref	Log tops	Datum	Ref
Anhydrite	3040	+155	-6	3040	+155	-6
B/Anhydrite	3078	+117	-9	3076	+119	-7
Topeka	3916	-721	-12	3915	-720	-11
Oread	4028	-833	-13	4028	-833	-13
Lansing	4120	-925	-12	4120	-925	-12
Stark	4342	-1147	-17	4339	-1144	-14
Mound City	4397	-1202	-27	4388	-1193	-18
Ft Scott	4508	-1313	-16	4510	-1315	-18
Oakley	4586	-1391	-19	4585	-1390	-18
Mississippi	4762	-1567	-19			
RTD	4800					
LTD				4801		



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300 Wichita,KS 67202

ATTN: Clayton Erickson

### **Frisbie B #2-15**

#### **15-2S-35W Rawlins,KS**

Start Date: 2021.12.31 @ 09:30:00

End Date: 2021.12.31 @ 17:47:15

Job Ticket #: 67572                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.01.05 @ 17:03:20





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company  
 250 N Water Ste 300 Wichita, KS 67202  
 ATTN: Clayton Erickson

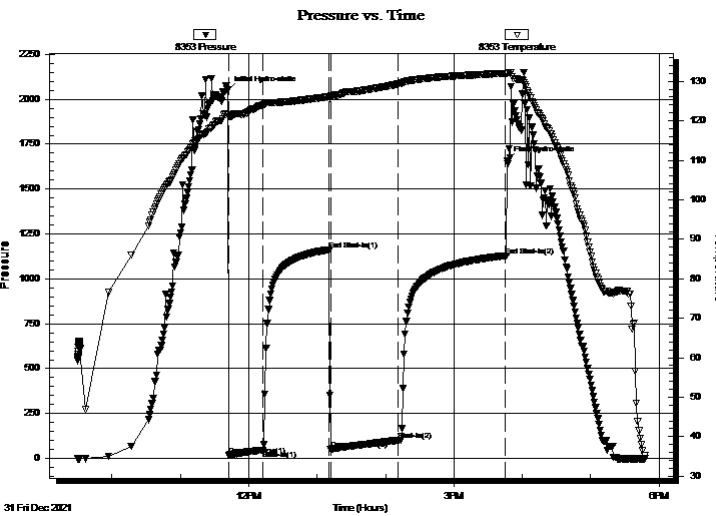
**15-2S-35W Rawlins, KS**  
**Frisbie B #2-15**  
 Job Ticket: 67572 **DST#: 1**  
 Test Start: 2021.12.31 @ 09:30:00

## GENERAL INFORMATION:

Formation: **Douglas- LKC A**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:42:15  
 Time Test Ended: 17:47:15  
 Interval: **4070.00 ft (KB) To 4140.00 ft (KB) (TVD)**  
 Total Depth: 4140.00 ft (KB) (TVD)  
 Hole Diameter: 7.87 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Nathan Aneas  
 Unit No: 71  
 Reference Elevations: 3195.00 ft (KB)  
 3190.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8353 Inside**  
 Press@RunDepth: 100.79 psig @ 4071.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.12.31 End Date: 2021.12.31 Last Calib.: 2021.12.31  
 Start Time: 09:30:01 End Time: 17:47:15 Time On Btm: 2021.12.31 @ 11:41:45  
 Time Off Btm: 2021.12.31 @ 15:47:00

**TEST COMMENT:** 30:IF- Weak surface blow , blow built to 1 1/4 inch  
 60:IS- No blow back  
 60:FF- No surface blow , blow built to 1 1/2 inch  
 90:FS- No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2048.65	121.50	Initial Hydro-static
1	18.26	121.01	Open To Flow (1)
31	47.32	124.01	Shut-In(1)
89	1162.63	126.09	End Shut-In(1)
90	51.24	126.20	Open To Flow (2)
150	100.79	129.31	Shut-In(2)
243	1128.32	132.02	End Shut-In(2)
246	1659.11	131.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	SWCM 90%M 10%W	0.89

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company

**15-2S-35W Rawlins,KS**

250 N Water Ste 300 Witchita,KS 67202

**Frisbie B #2-15**

Job Ticket: 67572

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2021.12.31 @ 09:30:00

## Tool Information

Drill Pipe:	Length: 3844.49 ft	Diameter: 3.80 inches	Volume: 53.93 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: 239.03 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 81000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	45.52 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4070.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	102.00 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			4043.00	
Hydraulic tool	5.00			4048.00	
Jars	5.00			4053.00	
EM Tool	4.00			4057.00	
Safety Joint	3.00			4060.00	
Packer	5.00			4065.00	32.00 Bottom Of Top Packer
Packer	5.00			4070.00	
Stubb	1.00			4071.00	
Recorder	0.00	8353	Inside	4071.00	
Recorder	0.00	8676	Outside	4071.00	
Perforations	32.00			4103.00	
Change Over Sub	1.00			4104.00	
Blank Spacing	32.00			4136.00	
Change Over Sub	1.00			4137.00	
Bullnose	3.00			4140.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company

**15-2S-35W Rawlins,KS**

250 N Water Ste 300 Wichita,KS 67202

**Frisbie B #2-15**

Job Ticket: 67572

**DST#: 1**

ATTN: Clayton Erickson

Test Start: 2021.12.31 @ 09:30:00

## 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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	SWCM 90%M 10%W	0.885

Total Length: 180.00 ft      Total Volume: 0.885 bbl

Num Fluid Samples: 0

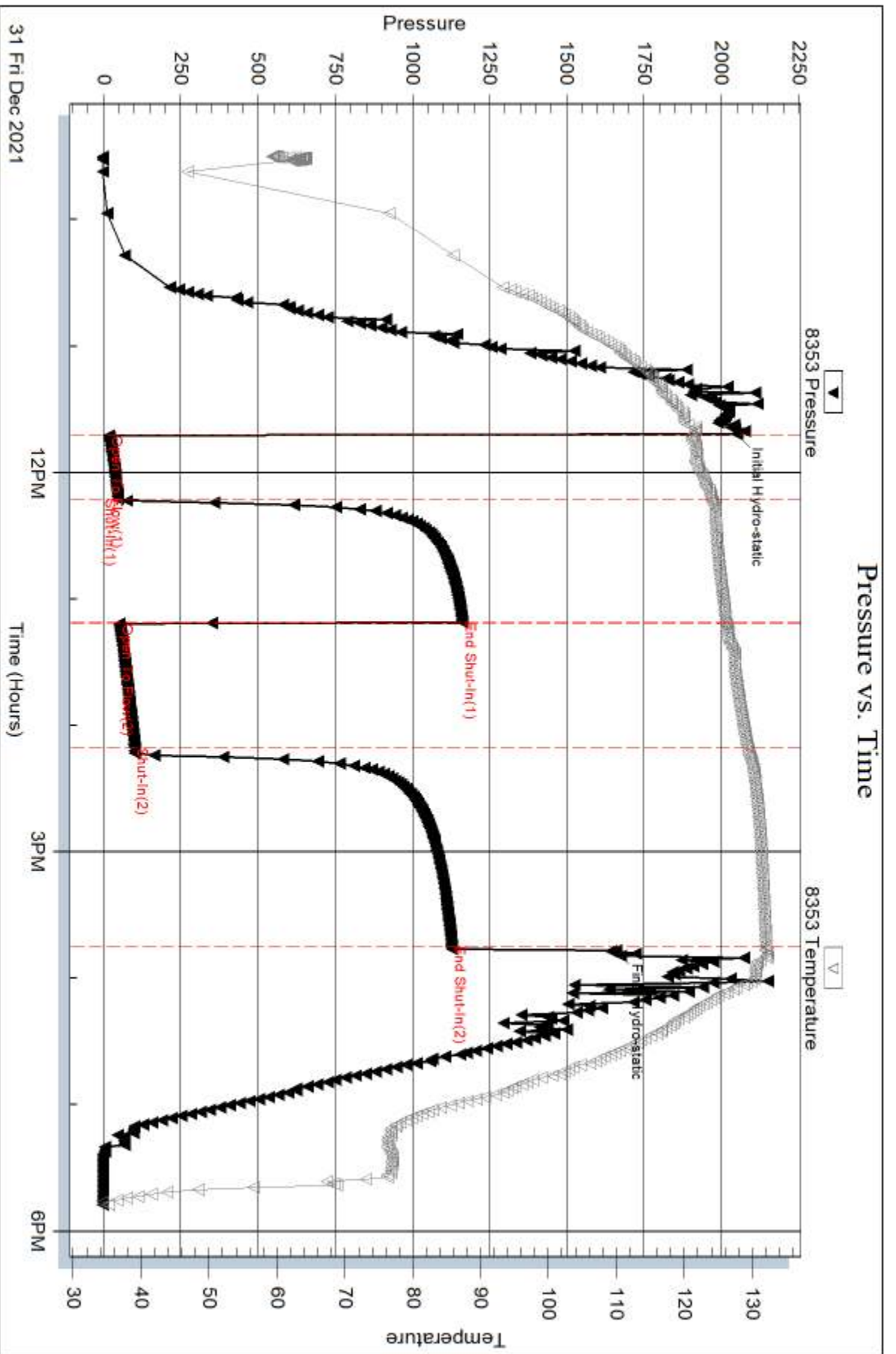
Num Gas Bombs: 0

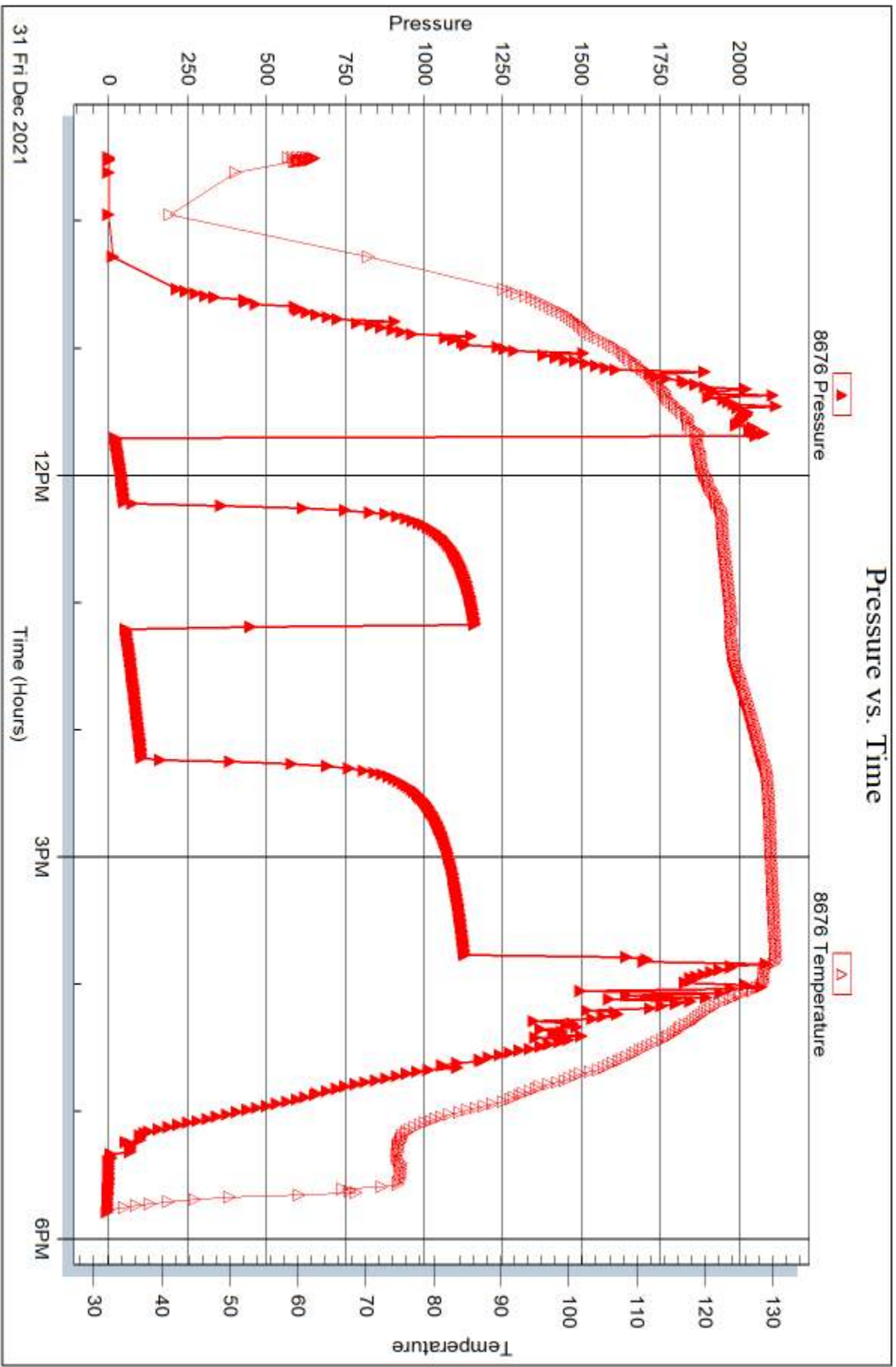
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300 Wichita,KS 67202

ATTN: Clayton Erickson

### **Frisbie B #2-15**

#### **15-2S-35W Rawlins,KS**

Start Date: 2022.01.01 @ 07:00:00

End Date: 2022.01.01 @ 15:51:30

Job Ticket #: 67573                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.01.05 @ 17:01:00



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company  
 250 N Water Ste 300 Wichita, KS 67202  
 ATTN: Clayton Erickson

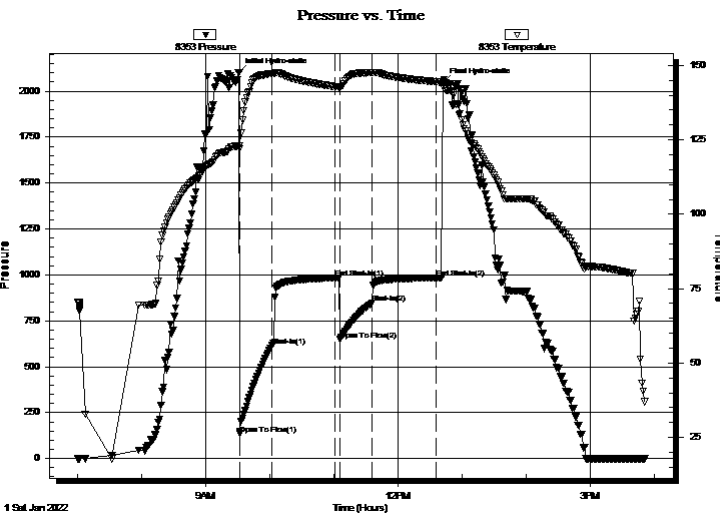
**15-2S-35W Rawlins, KS**  
**Frisbie B #2-15**  
 Job Ticket: 67573 **DST#: 2**  
 Test Start: 2022.01.01 @ 07:00:00

## GENERAL INFORMATION:

Formation: **LKC B - D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:31:30  
 Time Test Ended: 15:51:30  
 Interval: **4142.00 ft (KB) To 4215.00 ft (KB) (TVD)**  
 Total Depth: 4215.00 ft (KB) (TVD)  
 Hole Diameter: 7.87 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Nathan Aneas  
 Unit No: 71  
 Reference Elevations: 3195.00 ft (KB)  
 3190.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8353 Inside**  
 Press@RunDepth: 846.43 psig @ 4148.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.01.01 End Date: 2022.01.01 Last Calib.: 2022.01.01  
 Start Time: 07:00:01 End Time: 15:51:30 Time On Btm: 2022.01.01 @ 09:31:00  
 Time Off Btm: 2022.01.01 @ 12:41:45

**TEST COMMENT:** 30:IF- Good surface blow , built to 80"  
 60:IS- No blow back  
 30:FF- Good surface blow , built to 34"  
 60:FS- No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.50	122.95	Initial Hydro-static
1	134.12	122.12	Open To Flow (1)
31	614.11	147.27	Shut-In(1)
90	983.70	142.87	End Shut-In(1)
95	647.24	142.53	Open To Flow (2)
125	846.43	147.53	Shut-In(2)
184	984.12	144.54	End Shut-In(2)
191	2044.35	144.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1347.00	V SOMCW 90%W 5%O 5%M	16.72
239.00	SMCW 95%W 5%M	3.35

\* 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 Company

**15-2S-35W Rawlins,KS**

250 N Water Ste 300 Wichita,KS 67202

**Frisbie B #2-15**

Job Ticket: 67573

**DST#: 2**

ATTN: Clayton Erickson

Test Start: 2022.01.01 @ 07:00:00

## Tool Information

Drill Pipe:	Length: 3912.37 ft	Diameter: 3.80 inches	Volume: 54.88 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: 239.03 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	36.40 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4142.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	105.00 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			4120.00	
Hydraulic tool	5.00			4125.00	
Jars	5.00			4130.00	
EM Tool	4.00			4134.00	
Safety Joint	3.00			4137.00	
Packer	5.00			4142.00	27.00 Bottom Of Top Packer
Packer - Shale	5.00			4147.00	
Stubb	1.00			4148.00	
Recorder	0.00	8353	Inside	4148.00	
Recorder	0.00	8676	Outside	4148.00	
Perforations	35.00			4183.00	
Change Over Sub	1.00			4184.00	
Blank Spacing	32.00			4216.00	
Change Over Sub	1.00			4217.00	
Bullnose	3.00			4220.00	78.00 Anchor Tool

**Total Tool Length: 105.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Company  
250 N Water Ste 300 Wichita, KS 67202  
ATTN: Clayton Erickson

**15-2S-35W Rawlins, KS**  
**Frisbie B #2-15**  
Job Ticket: 67573      **DST#: 2**  
Test Start: 2022.01.01 @ 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:	38000 ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.28 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1347.00	VSOMCW 90%W 5%O 5%M	16.717
239.00	SMCW 95%W 5%M	3.353

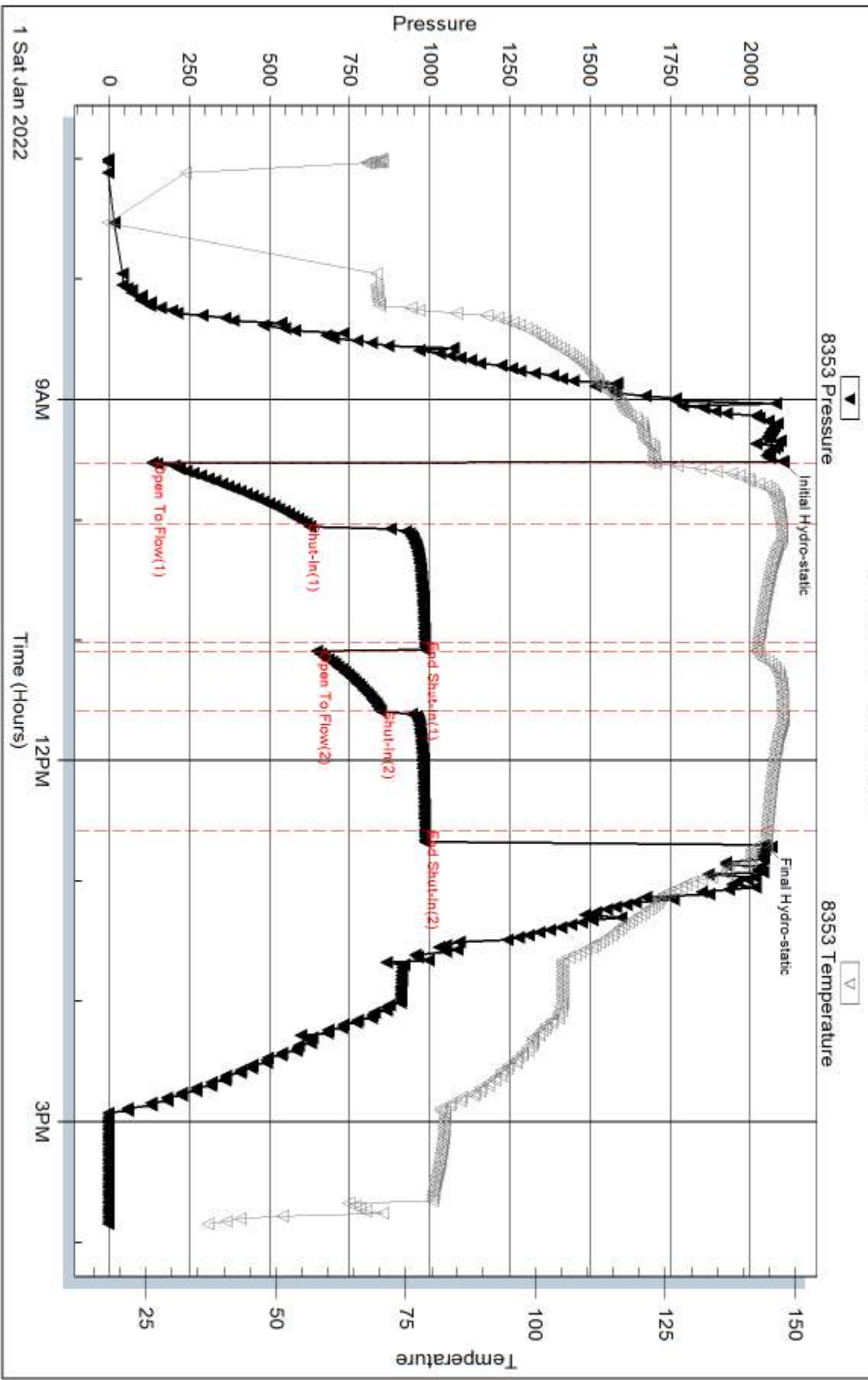
Total Length: 1586.00 ft      Total Volume: 20.070 bbl

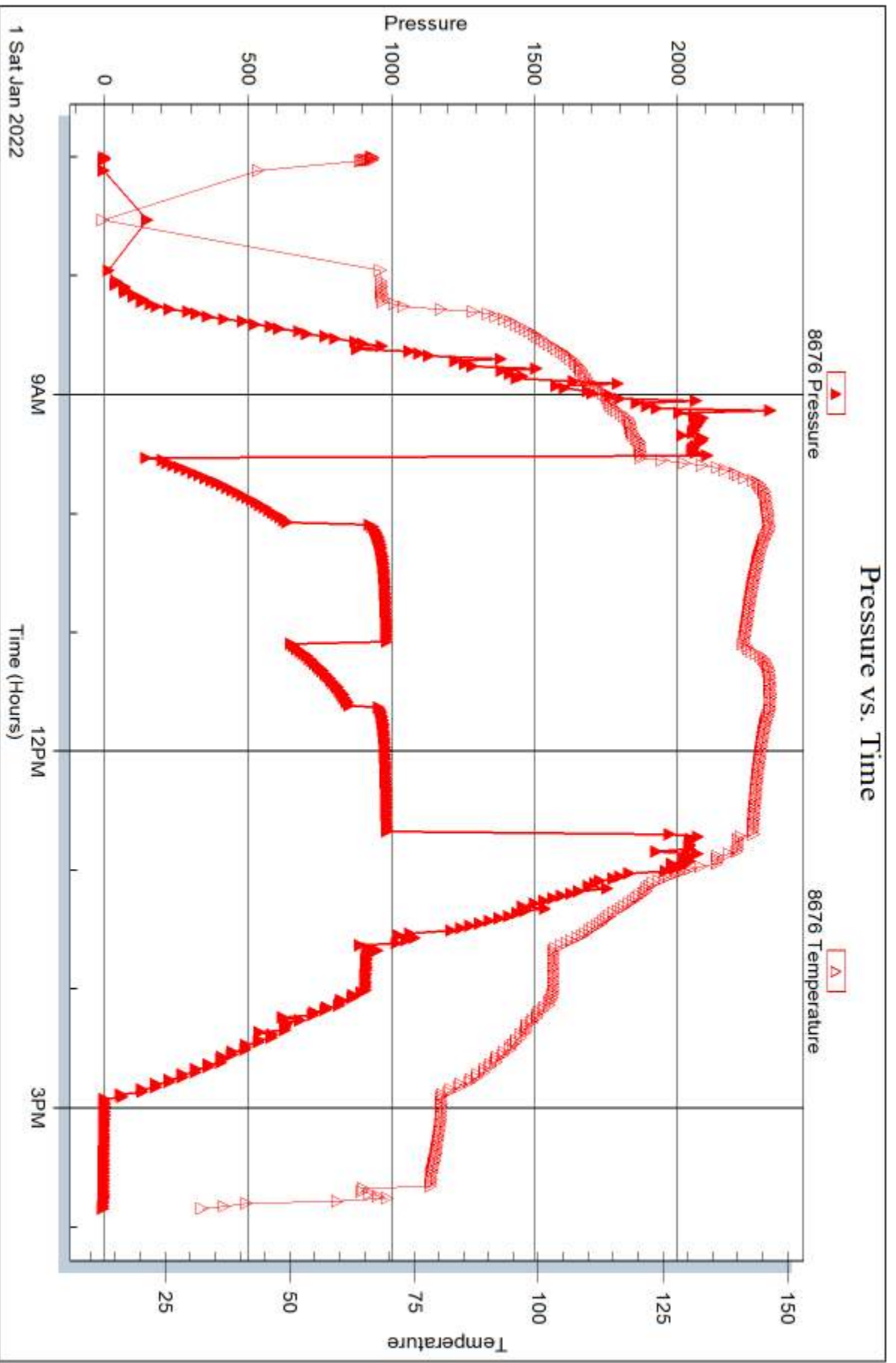
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300 Wichita,KS 67202

ATTN: Clayton Erickson

### **Frisbie B #2-15**

#### **15-2S-35W Rawlins,KS**

Start Date: 2022.01.02 @ 03:05:00

End Date: 2022.01.02 @ 11:26:30

Job Ticket #: 67574                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.01.05 @ 16:57:32



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company  
250 N Water Ste 300 Wichita, KS 67202  
ATTN: Clayton Erickson

**15-2S-35W Rawlins, KS**  
**Frisbie B #2-15**  
Job Ticket: 67574 **DST#: 3**  
Test Start: 2022.01.02 @ 03:05:00

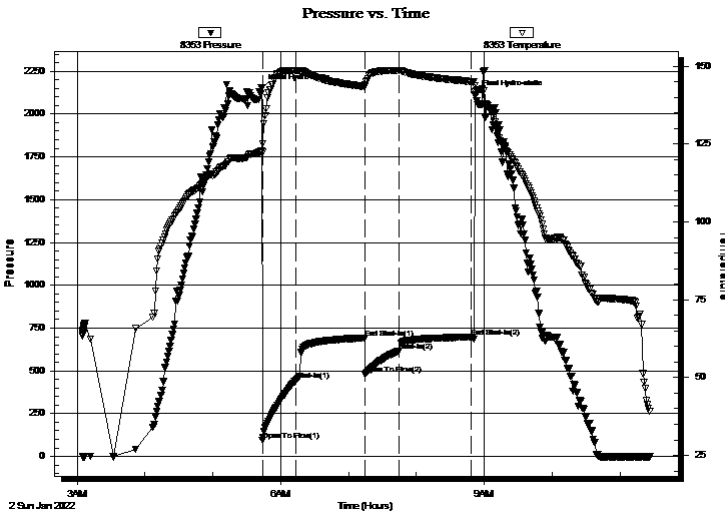
## GENERAL INFORMATION:

Formation: **LKC G**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 05:43:45  
Time Test Ended: 11:26:30  
Interval: **4211.00 ft (KB) To 4255.00 ft (KB) (TVD)**  
Total Depth: 4255.00 ft (KB) (TVD)  
Hole Diameter: 7.87 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Nathan Aneas  
Unit No: 71  
Reference Elevations: 3195.00 ft (KB)  
3190.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8353 Inside**  
Press@RunDepth: 616.02 psig @ 4212.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.01.02 End Date: 2022.01.02 Last Calib.: 1899.12.30  
Start Time: 03:05:01 End Time: 11:26:30 Time On Btm: 2022.01.02 @ 05:43:00  
Time Off Btm: 2022.01.02 @ 08:51:45

**TEST COMMENT:** 30:IF- Good surface blow , built to BOB in 5 min blow built to 50"  
60:IS- No blow back  
30:FF- Weak surface blow , built to 9.11 inch then died to 5.19 inch  
60:FS- No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2151.03	122.69	Initial Hydro-static
1	94.79	122.41	Open To Flow (1)
31	443.47	148.62	Shut-In(1)
92	690.43	143.55	End Shut-In(1)
92	482.01	144.19	Open To Flow (2)
122	616.02	148.59	Shut-In(2)
185	697.18	145.11	End Shut-In(2)
189	2112.69	143.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
920.00	SMCW 95%W 5%M	10.73
239.00	MW 90%W 10%M	3.35

\* 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 Company  
250 N Water Ste 300 Wichita, KS 67202  
ATTN: Clayton Erickson

**15-2S-35W Rawlins, KS**  
**Frisbie B #2-15**  
Job Ticket: 67574      **DST#: 3**  
Test Start: 2022.01.02 @ 03:05:00

**Tool Information**

Drill Pipe:	Length: 3970.90 ft	Diameter: 3.80 inches	Volume: 55.70 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: 239.03 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	30.93 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4211.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4184.00	
Hydraulic tool	5.00			4189.00	
Jars	5.00			4194.00	
EM Tool	4.00			4198.00	
Safety Joint	3.00			4201.00	
Packer	5.00			4206.00	32.00      Bottom Of Top Packer
Packer	5.00			4211.00	
Stubb	1.00			4212.00	
Recorder	0.00	8353	Inside	4212.00	
Recorder	0.00	8676	Outside	4212.00	
Perforations	40.00			4252.00	
Bullnose	3.00			4255.00	44.00      Bottom Packers & Anchor

**Total Tool Length: 76.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Company  
250 N Water Ste 300 Wichita, KS 67202  
ATTN: Clayton Erickson

**15-2S-35W Rawlins, KS**  
**Frisbie B #2-15**  
Job Ticket: 67574      **DST#: 3**  
Test Start: 2022.01.02 @ 03:05:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 90.00 lb/gal	Cushion Length: ft	Water Salinity:	45000 ppm
Viscosity: 85.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.28 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

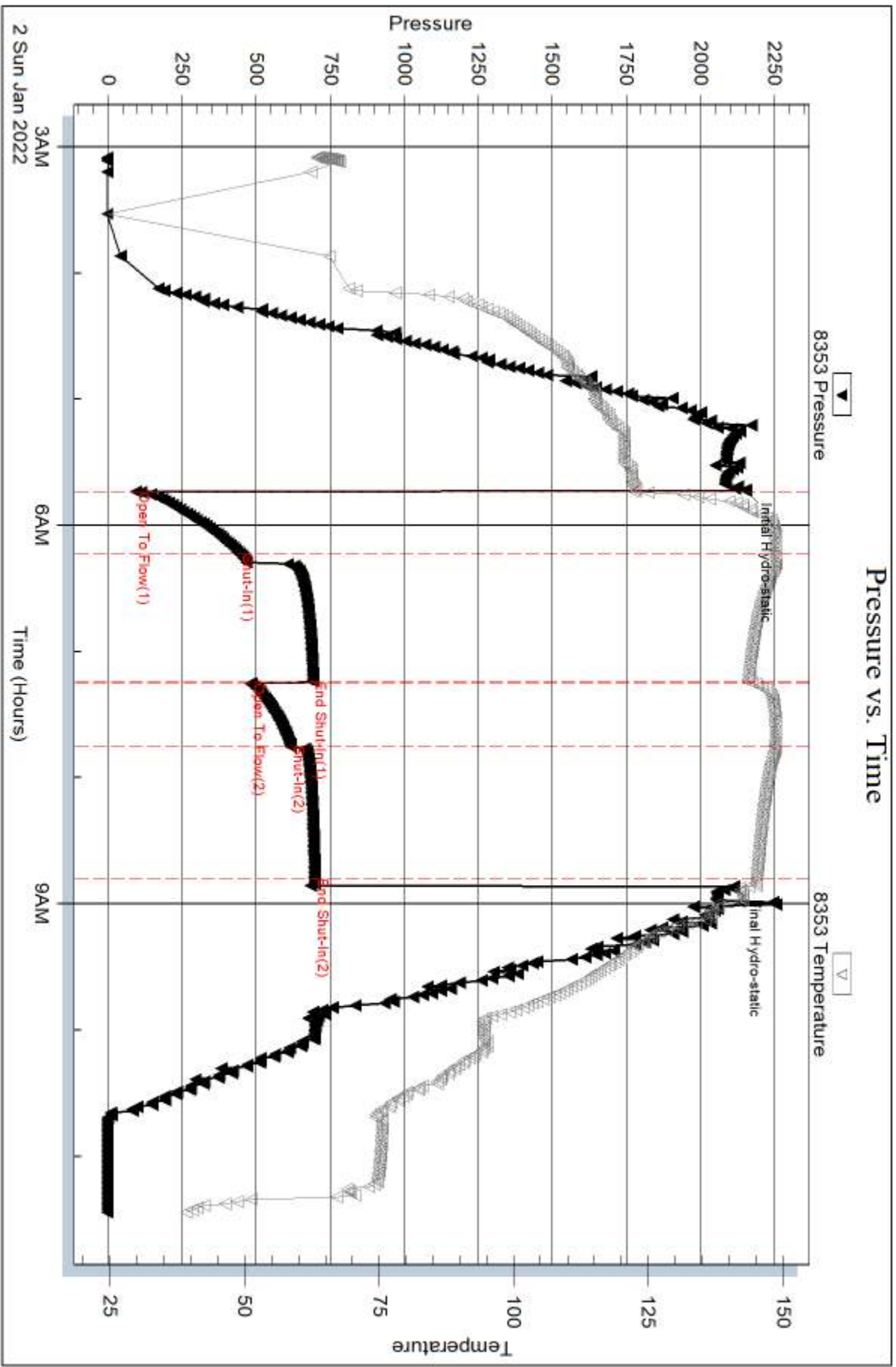
Length ft	Description	Volume bbl
920.00	SMCW 95%W 5%M	10.728
239.00	MW 90%W 10%M	3.353

Total Length: 1159.00 ft      Total Volume: 14.081 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

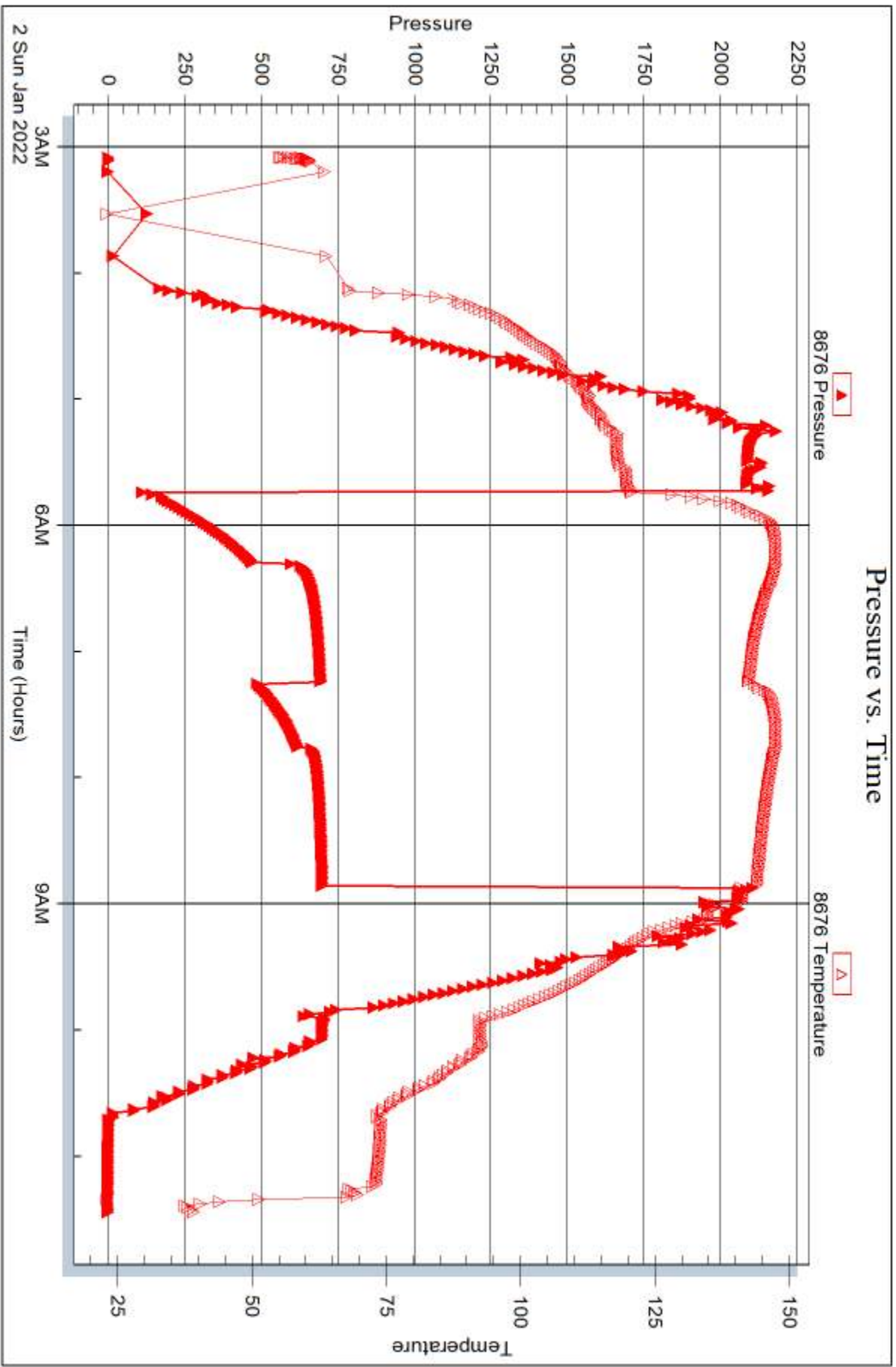


Serial #: 8676

Outside Marfin Drilling Company

Frisbie B #2-15

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67574

Printed: 2022.01.05 @ 17:00:28



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300 Wichita,KS 67202

ATTN: Clayton Erickson

### **Frisbie B #2-15**

#### **15-2S-35W Rawlins,KS**

Start Date: 2022.01.03 @ 02:30:00

End Date: 2022.01.03 @ 10:17:15

Job Ticket #: 67575                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.01.05 @ 16:49:38



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Company  
 250 N Water Ste 300 Wichita, KS 67202  
 ATTN: Clayton Erickson

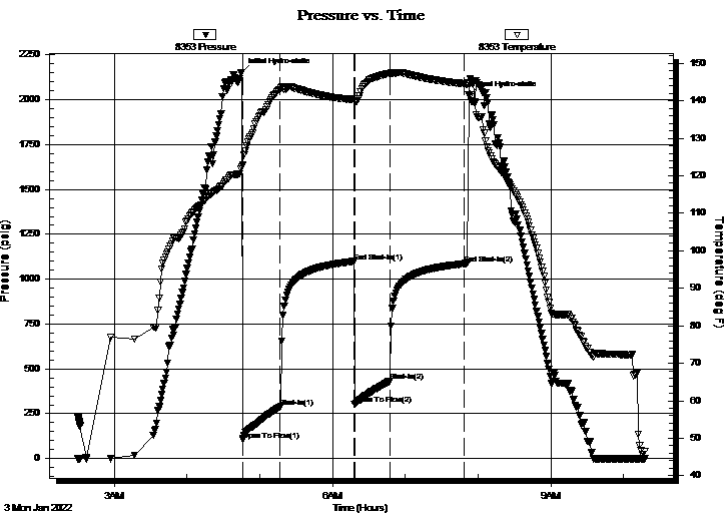
**15-2S-35W Rawlins, KS**  
**Frisbie B #2-15**  
 Job Ticket: 67575 **DST#: 4**  
 Test Start: 2022.01.03 @ 02:30:00

## GENERAL INFORMATION:

Formation: **LKC H-J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:46:00  
 Time Test Ended: 10:17:15  
 Interval: **4253.00 ft (KB) To 4345.00 ft (KB) (TVD)**  
 Total Depth: 4345.00 ft (KB) (TVD)  
 Hole Diameter: 7.87 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Nathan Aneas  
 Unit No: 71  
 Reference Elevations: 3195.00 ft (KB)  
 3190.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8353 Inside**  
 Press@RunDepth: 431.32 psig @ 4254.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.01.03 End Date: 2022.01.03 Last Calib.: 2022.01.03  
 Start Time: 02:30:01 End Time: 10:17:15 Time On Btm: 2022.01.03 @ 04:45:15  
 Time Off Btm: 2022.01.03 @ 07:52:15

**TEST COMMENT:** 30:IF- Good surface blow , BOB in 3 min, blow built to 41.11 inches  
 60:IS- Weak surface blow , blow built to 1/4 inch then died out  
 30:FF- Good surface blow , BOB in 7 min, blow built to 28.18 inches  
 60:FS- No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2150.39	122.30	Initial Hydro-static
1	104.13	122.71	Open To Flow (1)
32	287.81	143.13	Shut-In(1)
93	1098.89	140.42	End Shut-In(1)
93	303.54	139.91	Open To Flow (2)
122	431.32	147.32	Shut-In(2)
184	1086.18	144.55	End Shut-In(2)
187	2025.32	144.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	SGOMCW 75%W 10%O 10%M 5%G	2.17
206.00	VSOMCW 90%W 5%O 5%M	2.89
239.00	MW 95%W 5%M	3.35

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

Murfin Drilling Company  
250 N Water Ste 300 Wichita, KS 67202  
ATTN: Clayton Erickson

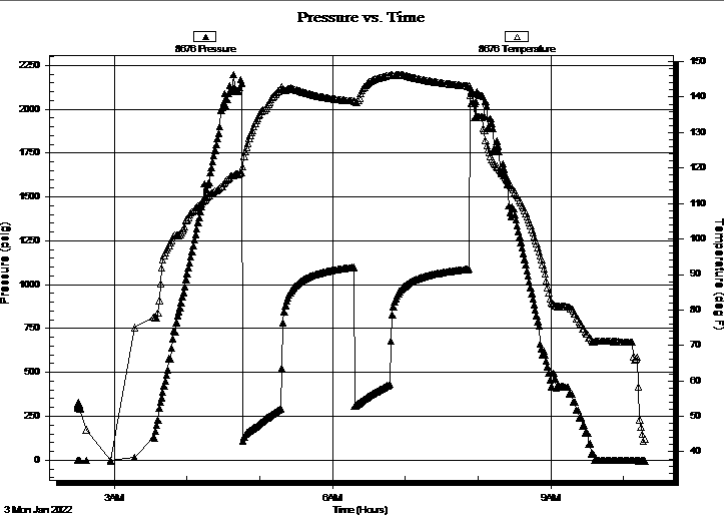
**15-2S-35W Rawlins, KS**  
**Frisbie B #2-15**  
Job Ticket: 67575 **DST#: 4**  
Test Start: 2022.01.03 @ 02:30:00

## GENERAL INFORMATION:

Formation: **LKC H-J**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 04:46:00 Tester: Nathan Aneas  
Time Test Ended: 10:17:15 Unit No: 71  
**Interval: 4253.00 ft (KB) To 4345.00 ft (KB) (TVD)** Reference Elevations: 3195.00 ft (KB)  
Total Depth: 4345.00 ft (KB) (TVD) 3190.00 ft (CF)  
Hole Diameter: 7.87 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8676** **Outside**  
Press@RunDepth: psig @ 4254.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.01.03 End Date: 2022.01.03 Last Calib.: 2022.01.03  
Start Time: 02:30:01 End Time: 10:17:30 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 30:IF- Good surface blow , BOB in 3 min , blow built to 41.11 inches  
60:IS- Weak surface blow , blow built to 1/4 inch then died out  
30:FF- Good surface blow , BOB in 7 min , blow built to 28.18 inches  
60:FS- No blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	SGOMCW 75%W 10%O 10%M 5%G	2.17
206.00	VSOMCW 90%W 5%O 5%M	2.89
239.00	MW 95%W 5%M	3.35

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company

**15-2S-35W Rawlins,KS**

250 N Water Ste 300 Witchita,KS 67202

**Frisbie B #2-15**

Job Ticket: 67575

**DST#: 4**

ATTN: Clayton Erickson

Test Start: 2022.01.03 @ 02:30:00

## Tool Information

Drill Pipe:	Length: 4003.23 ft	Diameter: 3.80 inches	Volume: 56.15 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: 239.03 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	21.26 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4253.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	92.00 ft				
Tool Length:	124.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4226.00	
Hydraulic tool	5.00			4231.00	
Jars	5.00			4236.00	
EM Tool	4.00			4240.00	
Safety Joint	3.00			4243.00	
Packer	5.00			4248.00	32.00 Bottom Of Top Packer
Packer	5.00			4253.00	
Stubb	1.00			4254.00	
Recorder	0.00	8353	Inside	4254.00	
Recorder	0.00	8676	Outside	4254.00	
Perforations	23.00			4277.00	
Change Over Sub	1.00			4278.00	
Blank Spacing	63.00			4341.00	
Change Over Sub	1.00			4342.00	
Bullnose	3.00			4345.00	92.00 Bottom Packers & Anchor

**Total Tool Length: 124.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company

**15-2S-35W Rawlins,KS**

250 N Water Ste 300 Wichita,KS 67202

**Frisbie B #2-15**

Job Ticket: 67575

**DST#: 4**

ATTN: Clayton Erickson

Test Start: 2022.01.03 @ 02:30:00

## 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:

30000 ppm

Viscosity: 92.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.33 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
310.00	SGOMCW 75%W 10%O 10%M 5%G	2.171
206.00	VSOMCW 90%W 5%O 5%M	2.890
239.00	MW 95%W 5%M	3.353

Total Length: 755.00 ft

Total Volume: 8.414 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

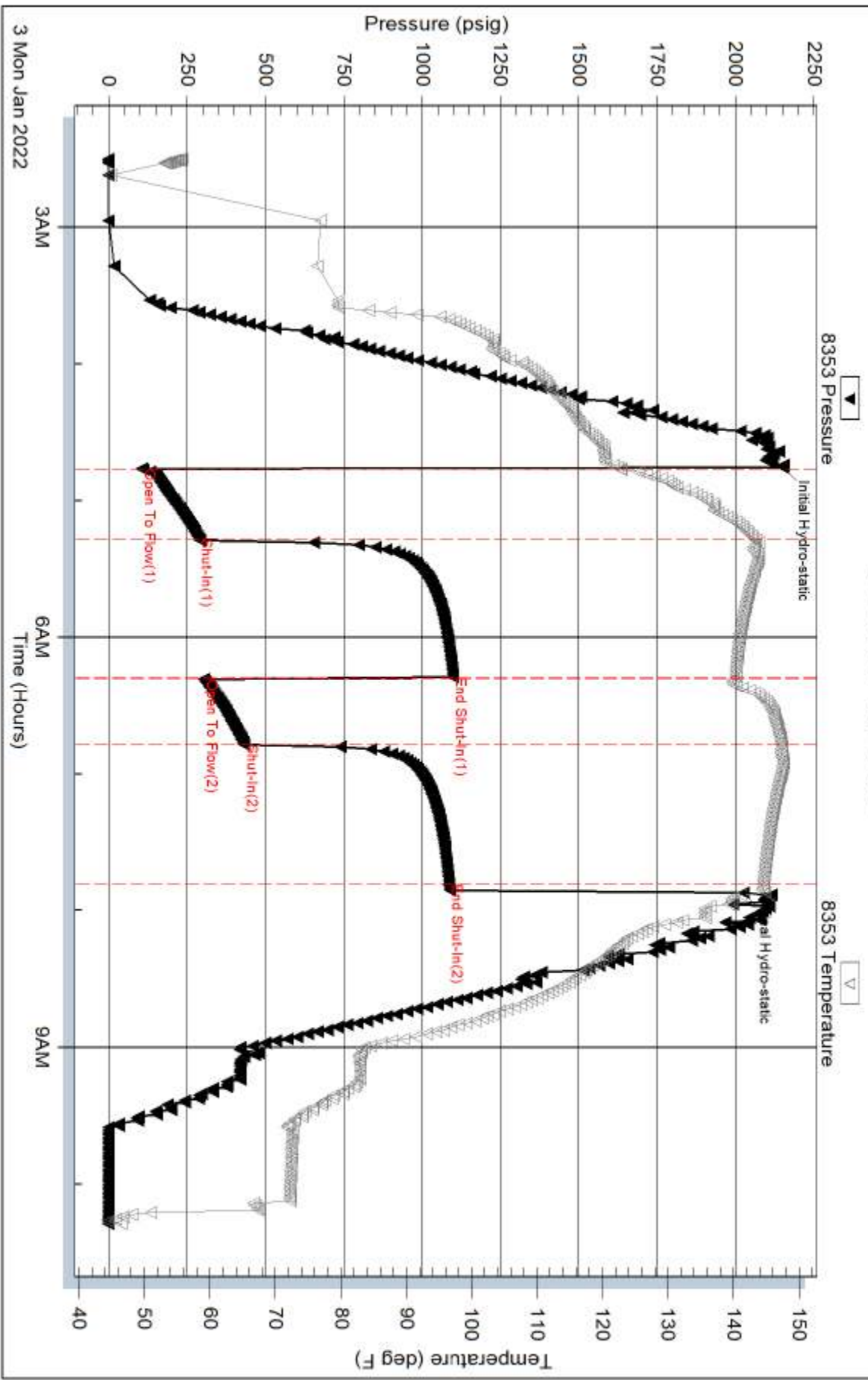
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

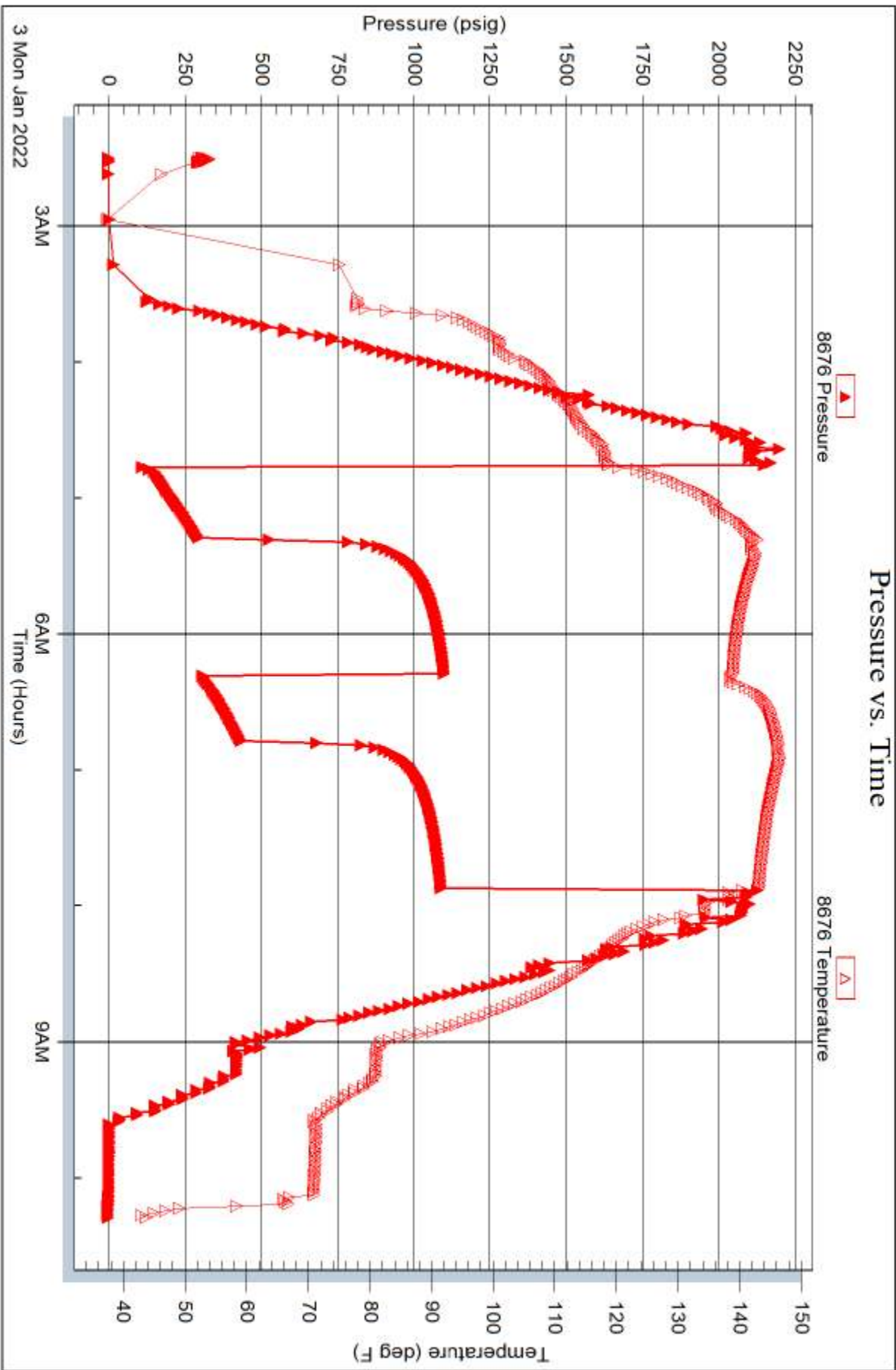


Serial #: 8676

Outside Marfin Drilling Company

Frisbie B #2-15

DST Test Number: 4





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67572**

Well Name & No. Frisbie B # 2-15 Test No. 1 Date 12/31/21  
 Company Murfin Drilling Company Elevation 3195 KB 3190 GL  
 Address 250 N Water Ste 300 Wichita, KS 67202  
 Co. Rep / Geo. Clayton Erickson Rig Murfin #7  
 Location: Sec. 15 Twp 25 Rge. 35W Co. Rawlins State KS

Interval Tested 4070-4140 Zone Tested Douglas, LKC A  
 Anchor Length 70 Drill Pipe Run 3844.49 Mud Wt. 8.8  
 Top Packer Depth 4065 Drill Collars Run 239.03 Vis 65  
 Bottom Packer Depth 4070 Wt. Pipe Run \_\_\_\_\_ WL 6.4  
 Total Depth 4140 Chlorides 1300 ppm System LCM 5

Blow Description IF-Weak surface blow, blow built to 1 1/4"  
ISF-No blow back  
FF-No surface blow, Blow built to 1 1/2"  
FSI-No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u><del>180</del> SWCM</u>			<u>10</u>	<u>90</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 180 BHT 132 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2048.65</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>06:30</u>
(B) First Initial Flow <u>18.26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>09:30</u>
(C) First Final Flow <u>47.32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:42</u>
(D) Initial Shut-In <u>1162.63</u>	<input checked="" type="checkbox"/> Circ Sub _____	T-Pulled <u>15:23</u>
(E) Second Initial Flow <u>51.24</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:20</u>
(F) Second Final Flow <u>100.79</u>	<input checked="" type="checkbox"/> Mileage <u>90 RT</u> 112.50	Comments _____
(G) Final Shut-In <u>1128.32</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1659.11</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350</u>

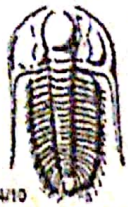
Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

Shale Packer 250  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2137.50

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 350  
 Total 2487.50  
 MP/DST Disc'l \_\_\_\_\_

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. **67573**

Well Name & No. Frisbie B #2-15 Test No. 2 Date 1/1/22  
 Company Murfin Drilling Company Elevation 3195 KB 3190 GL  
 Address 250 N Water Ste 300 Wichita, KS 67202  
 Co. Rep / Geo. Clayton Erickson Rig Murfin #7  
 Location: Sec. 15 Twp 25 Rge. 35W Co. Rawlins State KS

Interval Tested 4142-4215 Zone Tested LKC B&D  
 Anchor Length 73 Drill Pipe Run 3112.37 Mud Wt. 8.9  
 Top Packer Depth 4137 Drill Collars Run 239.03 Vis 68  
 Bottom Packer Depth 4142 Wt. Pipe Run \_\_\_\_\_ WL 6.0  
 Total Depth 4215 Chlorides 1400 ppm System LCM 4

Blow Description IF: Good surface blow, blow built to 80"  
IST: No blow back  
FF: Good surface blow, blow built to 34"  
FST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1347</u>	<u>VSOMCN</u>		<u>5</u>	<u>90</u>	<u>5</u>
<u>239</u>	<u>SMCN</u>			<u>95</u>	<u>5</u>
____	____				
____	____				
____	____				

Rec Total 1536 BHT 144 Gravity \_\_\_\_\_ API RW 282 @ 50 °F Chlorides 1400 ppm

(A) Initial Hydrostatic 2102.50  Test 1450 T-On Location 04:30  
 (B) First Initial Flow 134.12  Jars 250 T-Started 07:00  
 (C) First Final Flow 614.11  Safety Joint 75 T-Open 09:31  
 (D) Initial Shut-In 983.70  Circ Sub \_\_\_\_\_ T-Pulled 12:34  
 (E) Second Initial Flow 647.24  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 846.43  Mileage 90RT 112.50 Comments Used diesel for blow bucket  
 (G) Final Shut-In 984.12  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic ~~2044.35~~ 2044.35  Straddle \_\_\_\_\_  EM Tool 350  
 Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Copies \_\_\_\_\_  
 Final Flow 30  Sub Total 350  
 Final Shut-In 60  Accessibility \_\_\_\_\_ Total 2487.50  
 Sub Total 2137.50 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. **67574**

Well Name & No. Frisbie B #2-15 Test No. 3 Date 1/2/22  
 Company Murfin Drilling Company Elevation 3195 KB 3190 GL  
 Address 250 N Water Ste 300 Wichita, KS 67202  
 Co. Rep / Geo. Clayton Erickson Rig Murfin #17  
 Location: Sec. 15 Twp 2S Rge. 35W Co. Rawlins State KS

Interval Tested 4211-4255 Zone Tested LKC "G"  
 Anchor Length 44 Drill Pipe Run 3970.90 Mud Wt. 9.0  
 Top Packer Depth 4206 Drill Collars Run 239.03 Vis 85  
 Bottom Packer Depth 4211 Wt. Pipe Run \_\_\_\_\_ WL 6.0  
 Total Depth 4255 Chlorides 1600 ppm System LCM 4

Blow Description IF - Good surface blow, BOB in 5 min built to 50"  
ISF - No blow back  
FF - Weak surface blow, built to 9.11 inch then died to 5.19 inch  
FSI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>920</u>	<u>Feet of SMCW</u>			<u>95</u>	<u>5</u>
<u>239</u>	<u>Feet of MW</u>			<u>90</u>	<u>10</u>
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 1159 BHT 145° Gravity \_\_\_\_\_ API RW 273 @ 53 F Chlorides 5000 ppm  
 (A) Initial Hydrostatic 2151.03  Test 1450 T-On Location 01:15  
 (B) First Initial Flow 94.79  Jars 250 T-Started 03:05  
 (C) First Final Flow 443.47  Safety Joint 75 T-Open 05:43  
 (D) Initial Shut-In 690.43  Circ Sub \_\_\_\_\_ T-Pulled 08:45  
 (E) Second Initial Flow 482.01  Hourly Standby \_\_\_\_\_ T-Out 11:35  
 (F) Second Final Flow 616.02  Mileage 90RT 112.50 Comments used diesel for blow bucket  
 (G) Final Shut-In 697.18  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2112.69  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer 250  EM Tool 350 NS  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Sub Total 2137.50  Accessibility \_\_\_\_\_ Sub Total 350  
 Total 2487.50 MP/DST Disc \_\_\_\_\_

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, tests lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67575**

Well Name & No. Frisbie B #2-15 Test No. 4 Date 1/3/22  
 Company Murfin Drilling Company Elevation 3195 KB 3190 GL  
 Address 250 N Water Ste 300 Wichita, KS 67202  
 Co. Rep / Geo. Clayton Erickson Rig Murfin #7  
 Location: Sec. 15 Twp 2S Rge. 35W Co. Rawlins State KS

Interval Tested 4253-4345 Zone Tested LKC 14-J  
 Anchor Length 92 Drill Pipe Run 4003.23 Mud Wt. 9.2  
 Top Packer Depth 4248 Drill Collars Run 239.03 Vis 92  
 Bottom Packer Depth 4253 Wt. Pipe Run \_\_\_\_\_ WL 60  
 Total Depth 4345 Chlorides 1600 ppm System LCM 4  
 Blow Description IF - Good surface blow, BOB in 3 min, blow built to 41.11 inches  
ISI - ~~Good surface blow~~ Weak surface blow, blow built to 1/4" then died  
FF - Good surface blow, BOB in 7 min, blow built to 28.18 inches  
FSI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
310	SGOMCW	5	10	75	10
206	VSOMCW		5	90	5
239	MW			95	5

Rec Total 755 BHT 144 Gravity \_\_\_\_\_ API RW 328 @ 51 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic <u>2150.39</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>01:15</u>
(B) First Initial Flow <u>104.13</u>	<input type="checkbox"/> Jars <u>250</u>	T-Started <u>02:30</u>
(C) First Final Flow <u>287.81</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>04:46</u>
(D) Initial Shut-In <u>1098.89</u>	<input checked="" type="checkbox"/> Circ Sub _____	T-Pulled <u>07:27</u>
(E) Second Initial Flow <u>303.54</u>	<input checked="" type="checkbox"/> Hourly Standby _____	T-Out <u>09:30</u>
(F) Second Final Flow <u>431.32</u>	<input checked="" type="checkbox"/> Mileage <u>90RT</u> 225	Comments <u>Picked up tools @ 01:45 1/4/22</u>
(G) Final Shut-In <u>1086.18</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2025.32</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350?</u>
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>350</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	Total <u>2600</u>
	Sub Total <u>2250</u>	MP/DST Disc'l _____

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

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

Well Name: Frisbie B #2-15  
 API: 15-153-21278-00-00  
 Location: N2 N2 S2 Sec 15 T2S R35W  
 License Number:  
 Spud Date: 12/27/2021  
 Surface Coordinates: 1250' FSL & 2640' FWL  
 Region: Rawlins County, KS  
 Drilling Completed: 1/4/2022

Bottom Hole Coordinates: 8 5/8" @330'  
 Production Casing:  
 Ground Elevation (ft): 3190  
 Logged Interval (ft): 3800  
 Formation:  
 Type of Drilling Fluid: Chemical Mud  
 K.B. Elevation (ft): 3195  
 Total Depth (ft): 4800

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

OPERATOR

Company: Murfin Drilling Co., Inc.  
 Address: 250 N Water, Suite 300  
 Wichita, KS 67202

GEOLOGIST

Name: Clayton Erickson  
 Company: Erickson Wellsite Geology  
 Address: 402 Palmer Street  
 P.O. Box 294  
 Loomis, NE 68958

DSTs

DST #1 4070-4140 30-60-60-90; Hydro: 2049-1659 IFP: 18-47 FSIP: 1163 FFP: 51-101 FSIP: 1128; Rec: 180' 10%w 90%w; BHT: 132F; IF: 1 1/4" ISI: dead FF: 1 1/12" FSI: dead  
 DST #2 4142-4215 30-60-30-60; Hydro: 2103-2044 IFP: 134-614 ISIP: 984 FFP: 647-846 FSIP: 984; Rec: 1347' 5%o 90%w 5%w 239' 95%w 5%w; BHT: 144F; RW: .282@ 50F Chl: 38,000ppm; IF: 80" ISI: dead FF: 34" FSI: dead  
 DST #3 4211-4255 30-60-30-60; Hydro: 2151-2113 IFP: 95-443 ISIP: 690 FFP: 482-616 FSIP: 697; Rec: 920' 95%w 5%w 239' 90%w 10%w; BHT: 145F; RW: .278@ 43F Chl: 45,000ppm; IF: BOB 5min ISI: dead FF: 9" died back to 5" FSI: dead  
 DST #4 4253-4345 30-60-30-60; Hydro: 2104-2025 IFP: 104-288 ISIP: 1099 FFP: 304-431 FSIP: 1086; Rec: 310' 5%g 10%o 75%w 10%w 206' 5%o 90%w 5%w 239' 95%w 5%w; BHT: 144F; RW: .328@ 51F Chl: 30,000ppm; IF: BOB 3min ISI: 1/4" FF: BOB 7min FSI: dead

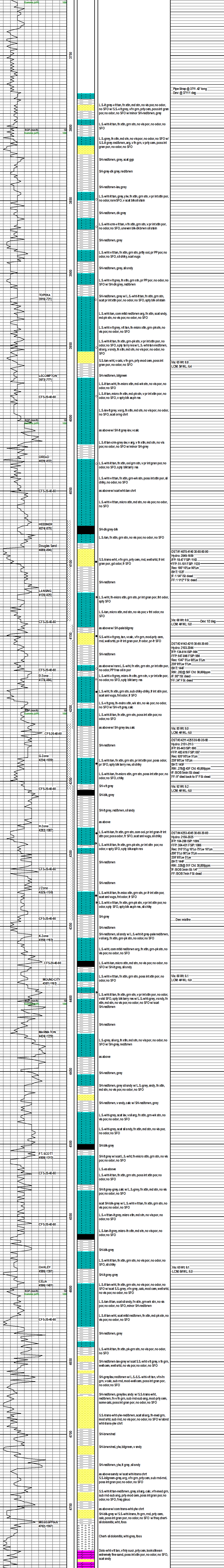
COMMENTS

FORMATION TOPS

Log Tops	Sample tops
Anhydrite	
Base Anhy	
TOPEKA	3916(-721)
OREAK	4028(-833)
LANSING	4120(-925)
Mound City	4387(-1192)
MARMATON	4423(-1228)
FT SCOTT	4508(-1313)
CELIA	4596(-1399)
MISSA	4564(-1569)
TD	4801(-1605)

ROCK TYPES				
Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Carb. shale	Igne	Salt	Slstst
Brec	Arkose	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Till

OTHER SYMBOLS			
OIL SHOW	Spotted	Dead	INTERVAL
Even	Ques		Dst



Remarks

Pipe Strap @ 3711.42' long  
Dev @ 3711.1 deg

Vis: 65 Wt: 8.8  
LCM: # WL: 6.4

Vis: 68 Wt: 8.9  
LCM: # WL: 6.0

Vis: 85 Wt: 9.0  
LCM: # WL: 6.0

Vis: 68 Wt: 8.9  
LCM: # WL: 6.0

Vis: 65 Wt: 9.1  
LCM: # WL: 6.0

Vis: 65 Wt: 9.1  
LCM: # WL: 6.0

Dev: misfire

Vis: 65 Wt: 9.1  
LCM: # WL: 6.0

Dev: 34 deg