

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 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	HESTER 4-7
Doc ID	1732290

All Electric Logs Run

DIL
DUCP
MEL
BHCS



CEMENT TREATMENT REPORT

Customer: Murfin Drilling	Well: Hester #4-7	Ticket: WP 4654
City, State: Benkelman NE	County: Cheyenne KS	Date: 8/26/2023
Field Rep: Jay	S-T-R: 7-1S-39W	Service: PTA

Downhole Information	Calculated Slurry - Lead	Calculated Slurry - Tail
Hole Size: 7 7/8 in	Blend: H-Plug A	Blend:
Hole Depth: 5175 ft	Weight: 13.8 ppg	Weight: ppg
Casing Size: in	Water / Sx: 6.9 gal / sx	Water / Sx: gal / sx
Casing Depth: ft	Yield: 1.42 ft ³ / sx	Yield: ft ³ / sx
Tubing / Liner: in	Annular Bbls / Ft.: 0.0406 bbs / ft.	Annular Bbls / Ft.: bbs / ft.
Depth: ft	Depth: 3450 ft	Depth: ft
Tool / Packer:	Annular Volume: 140.1 bbls	Annular Volume: 0 bbls
Tool Depth: ft	Excess:	Excess:
Displacement: bbls	Total Slurry: 64.4 bbls	Total Slurry: 0.0 bbls
	Total Sacks: 255 sx	Total Sacks: 0 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
9:35 AM			-	-	Arrived on location
9:45 AM				-	Safety meeting
9:55 AM				-	Rigged up
10:50 AM	3.0	200.0	5.0	5.0	Water ahead
10:53 AM	3.5	225.0	12.6	17.6	Mixed 50 sacks H-Plug A cement 13.8 ppg @ 3450'
10:58 AM	2.0	100.0	5.0	22.6	Begin water displacement
11:02 AM				22.6	Begin mud displacement with rig pump for 2:45 minutes
11:32 AM	3.5	150.0	5.0	27.6	Water ahead
11:35 AM	3.2	150.0	25.2	52.8	Mixed 100 sacks H-Plug A cement 13.8 ppg @ 2500'
11:43 AM	2.0	100.0	5.0	57.8	Begin water displacement
11:47 AM					Begin mud displacement with rig pump for 2:00 minutes
12:48 PM	3.0	100.0	5.0		Water ahead
12:51 PM	3.0	100.0	12.6		Mixed 50 sacks H-Plug A cement 13.8 ppg @ 350'
12:56 PM	2.0	50.0	0.7		Begin water displacement
1:41 PM	2.0	50.0	2.5		Mixed 10 sacks H-Plug A cement @ 13.8 ppg with wooden plug for top 40'
1:47 PM	2.0	50.0	3.7		Mixed 15 sacks H-Plug A cement @ 13.8 ppg for mousehole plug
1:52 PM	2.0	50.0	7.5		Mixed 30 sacks H-Plug A cement @ 13.8 ppg for rathole plug
1:55 PM					Plug down
1:57 PM					Washed up and rigged down
2:30 PM					Left location

CREW		UNIT	SUMMARY		
Cementer: John		947	Average Rate	Average Pressure	Total Fluid
Pump Operator: Jose T		208	2.6 bpm	110 psi	90 bbls
Bulk #1: Robert		205			
Bulk #2:					

DRILLING REPORT - LOG TOPS - HESTER 4-7

MDCI Hester #4-7 900'FNL 450'FWL Sec. 7-T1S-R40W KB: 3412

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
SC	3420	-8	-4	3416	-4	Flat
B SC	3453	-41	-4	3452	-40	-3
TOPEKA	4171	-759	+5	4175	-763	+1
DEER CR	4201	-789	+3	4208	-796	-4
LECOMP	4251	-839	+2	4253	-841	Flat
OREAD	4302	-890	+1	4303	-891	Flat
LANS	4380	-968	-2	4380	-968	-2
LANS B	4431	-1019	-3	4432	-1020	-4
LANS D	4448	-1036	-3	4449	-1037	-4
LANS G	4500	-1088	-3	4500	-1088	-3
LANS H	4535	-1123	-3	4534	-1122	-2
LANS J	4578	-1166	-2	4576	-1164	Flat
STARK	4604	-1192	-4	4605	-1193	-5
LANS K	4632	-1220	-4	4634	-1222	-6
LANS L	4655	-1243	-7	4657	-1245	-9
MOUND CITY	4664	-1252	-7	4663	-1251	-6
LENAPAH	4674	-1262	-7	4674	-1262	-7
MARM	4700	-1288	-7	4698	-1286	-5
MARM C	4768	-1356	-15	4759	-1347	-6
FT SC	4794	-1382	-3	4789	-1377	+2
L FT SC	4831	-1419	-5	4832	-1420	-6
Breezy Hill	4868	-1456	-10	4865	-1453	-7
OAKLEY	4883	-1471	-7	4882	-1470	-6
CELIA	4886	-1474	-6	4886	-1474	-6
MISSISSIPPIAN	5140	-1728	-20	5146	-1734	-26
RTD	5175					
LTD					5175	

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Company Inc.**

LEASE **Hester #4-7**

FIELD **Sarah Ann**

LOCATION **900'N1 & 450'W1**

SEC **7 TWP 1S RGE 39W**

COUNTY **Cheyenne STATE Kansas**

CONTRACTOR **Murfin Drilling Company Inc. R#1#3**

SPUD **8/14/2023 COMP 8/26/2023**

R/D **5175 LTD 5175**

MUD UP **3801 TYPE MUD Chemical**

SAMPLES SAVED FROM **4080 TO 5175**

DRILLING TIME KEPT FROM **4080 TO 5175**

SAMPLES EXAMINED FROM **4080 TO 5175**

GEOLOGICAL SUPERVISION FROM **5175**

GEOLOGIST ON WELL **Robert D. Hendrix**

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Antydrite

Topoka

Oread

Lansing

Stark Shale

Mound City

FT Scott

Oakley

Mississippian

ELEVATIONS

KB **3412**

DF

GL **3407**

Measurements Are All From **Kelly Bustin**

CASING

CONDUCTOR SURFACE **8-5/8" @ 302'**

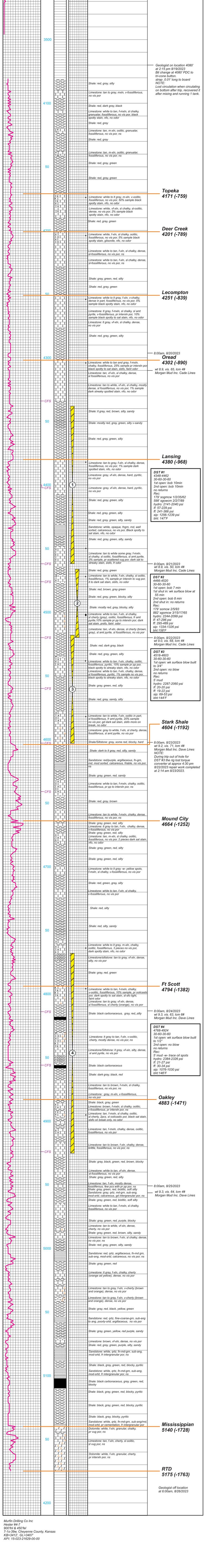
PRODUCTION

ELECTRICAL SURVEYS

Geological

REMARKS: Due to negative results on all Drill Stem Tests over zones with shows and of interest along with negative results indicated on Electric Logs, The decision was made to plug this test.

HSI plugged hole (11:00AM - 2:00PM 08/26/23), as follows using H325 50sxs @ 3450', 100sxs @ 2500', 50sxs @ 350, 10sxs @ 40', 30sxs RH and 15sxs MH. Orders by KCC Jenn Hawthorne.





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Robert Hendrix

Hester #4-7

7-1S-39W Cheyenne,KS

Start Date: 2023.08.21 @ 01:15:00

End Date: 2023.08.21 @ 09:07:00

Job Ticket #: 70437 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.08.25 @ 12:12:00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

ATTN: Robert Hendrix

Job Ticket: 70437

DST#: 1

Test Start: 2023.08.21 @ 01:15:00

GENERAL INFORMATION:

Formation: **LKC A - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:20:30

Time Test Ended: 09:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: 71

Interval: 4348.00 ft (KB) To 4462.00 ft (KB) (TVD)

Reference Elevations: 3412.00 ft (KB)

Total Depth: 4462.00 ft (KB) (TVD)

3407.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 365.62 psig @ 4349.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.08.21

End Date: 2023.08.21

Last Calib.: 2023.08.21

Start Time: 01:15:01

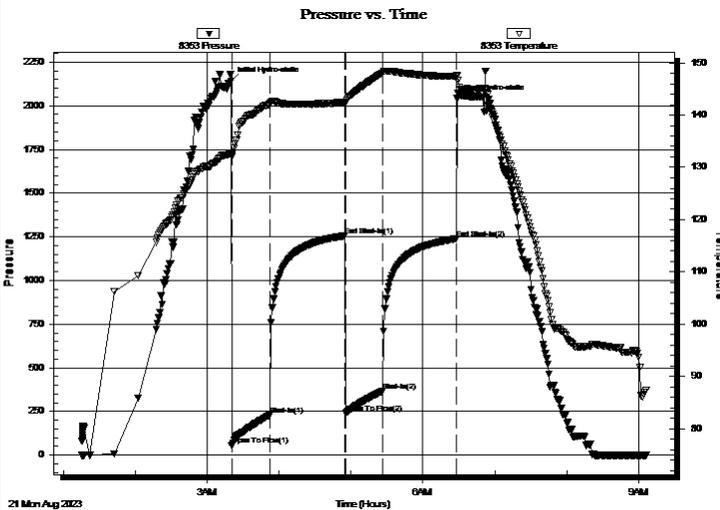
End Time: 09:07:00

Time On Btm: 2023.08.21 @ 03:19:45

Time Off Btm: 2023.08.21 @ 06:28:15

TEST COMMENT: 30:IF- Fair surface blow , built to BOB in 10 min, final is 28 1/4"
60:IS- No blow back
30:FF- Fair surface blow , built to BOB in 10 min, final is 23 1/2"
60:FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.56	132.58	Initial Hydro-static
1	57.38	132.23	Open To Flow (1)
33	229.08	142.21	Shut-In(1)
95	1255.86	142.44	End Shut-In(1)
96	241.29	142.36	Open To Flow (2)
127	365.62	148.06	Shut-In(2)
188	1239.26	147.36	End Shut-In(2)
189	2040.39	147.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
179.00	SOGMCW 62%W 35%M 2%G 1%O	0.88
598.00	SGOWCM 89%M 7%W 2%O 2%G	8.39

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 70437

DST#: 1

ATTN: Robert Hendrix

Test Start: 2023.08.21 @ 01:15:00

Tool Information

Drill Pipe:	Length: 4170.00 ft	Diameter: 3.80 inches	Volume: 58.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 59.37 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4348.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	114.00 ft			
Tool Length:	147.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4316.00	
Shut In Tool	5.00			4321.00	
Hydraulic tool	5.00			4326.00	
EM Tool	4.00			4330.00	
Jars	5.00			4335.00	
Safety Joint	3.00			4338.00	
Packer	5.00			4343.00	33.00 Bottom Of Top Packer
Packer	5.00			4348.00	
Stubb	1.00			4349.00	
Recorder	0.00	8353	Inside	4349.00	
Recorder	0.00	8676	Outside	4349.00	
Perforations	14.00			4363.00	
Change Over Sub	1.00			4364.00	
Blank Spacing	94.00			4458.00	
Change Over Sub	1.00			4459.00	
Bullnose	3.00			4462.00	114.00 Bottom Packers & Anchor
Total Tool Length:	147.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 70437

DST#: 1

ATTN: Robert Hendrix

Test Start: 2023.08.21 @ 01:15:00

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: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
179.00	SOGMCW 62%W 35%M 2%G 1%O	0.880
598.00	SGOWCM 89%M 7%W 2%O 2%G	8.388

Total Length: 777.00 ft

Total Volume: 9.268 bbl

Num Fluid Samples: 0

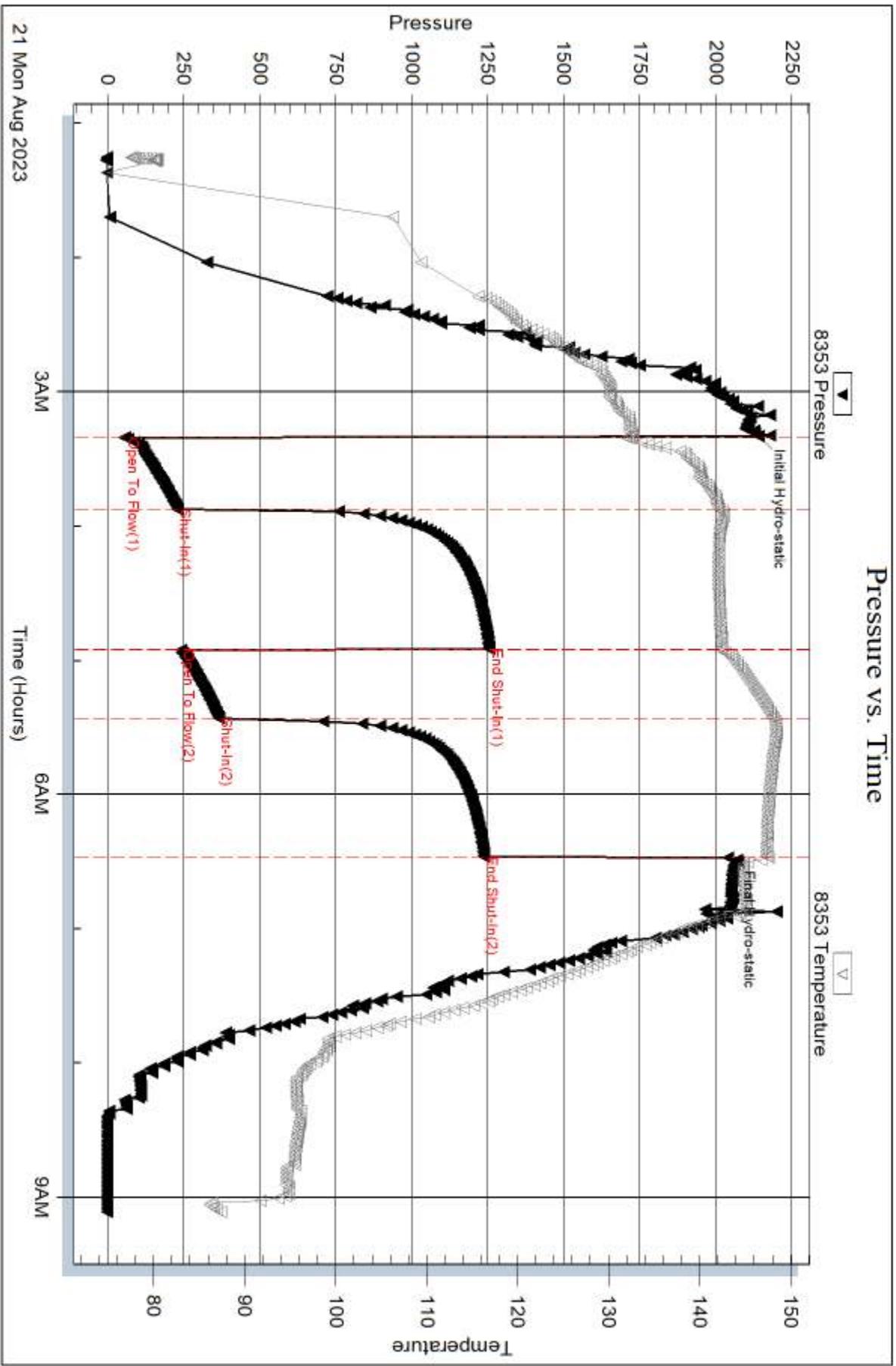
Num Gas Bombs: 0

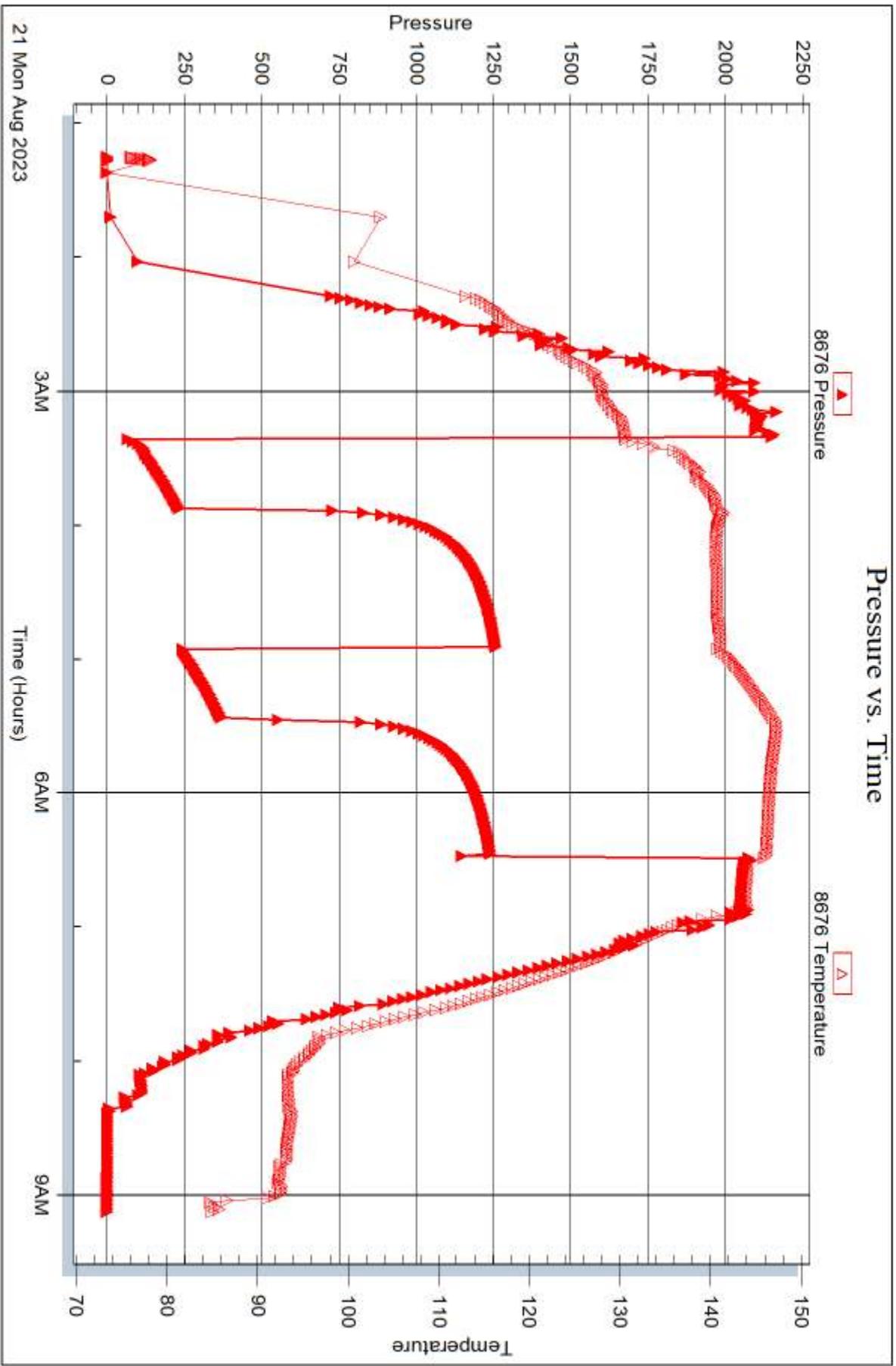
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Robert Hendrix

Hester #4-7

7-1S-39W Cheyenne,KS

Start Date: 2023.08.21 @ 22:09:00

End Date: 2023.08.22 @ 05:59:45

Job Ticket #: 70438 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.08.25 @ 12:10:45



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

7-1S-39W Cheyenne, KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 70438

DST#: 2

ATTN: Robert Hendrix

Test Start: 2023.08.21 @ 22:09:00

GENERAL INFORMATION:

Formation: **LKC D'-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:05:15

Time Test Ended: 05:59:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: 4466.00 ft (KB) To 4520.00 ft (KB) (TVD)

Reference Elevations: 3412.00 ft (KB)

Total Depth: 4520.00 ft (KB) (TVD)

3407.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 489.06 psig @ 4467.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.08.21

End Date:

2023.08.22

Last Calib.:

2023.08.22

Start Time: 22:09:01

End Time:

05:59:45

Time On Btm:

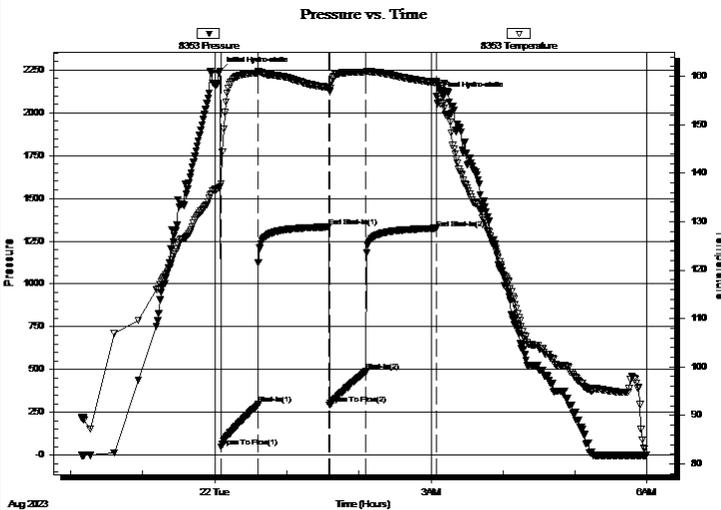
2023.08.22 @ 00:04:15

Time Off Btm:

2023.08.22 @ 03:04:45

TEST COMMENT: 30:IF- Fair surface blow , BOB in 7 min, final is 41 1/4"
60:IS- No blow back for 55 min, final weak surface
30:FF- Fair surface blow , BOB in 8 min, final is 36 1/2"
60:FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2243.97	137.12	Initial Hydro-static
1	46.83	137.84	Open To Flow (1)
32	296.30	160.68	Shut-In(1)
91	1333.79	157.62	End Shut-In(1)
92	295.48	156.81	Open To Flow (2)
122	489.06	160.82	Shut-In(2)
180	1325.55	158.65	End Shut-In(2)
181	2099.30	158.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
179.00	SOMCW 93%W 5%M 2%O	0.88
882.00	SGOMCW 65%W 17%M 15%O 3%G	12.37

* 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 Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 70438

DST#: 2

ATTN: Robert Hendrix

Test Start: 2023.08.21 @ 22:09:00

Tool Information

Drill Pipe:	Length: 4263.00 ft	Diameter: 3.80 inches	Volume: 59.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 60.68 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4466.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4434.00	
Shut In Tool	5.00			4439.00	
Hydraulic tool	5.00			4444.00	
EM Tool	4.00			4448.00	
Jars	5.00			4453.00	
Safety Joint	3.00			4456.00	
Packer	5.00			4461.00	33.00 Bottom Of Top Packer
Packer	5.00			4466.00	
Stubb	1.00			4467.00	
Recorder	0.00	8353	Inside	4467.00	
Recorder	0.00	8676	Outside	4467.00	
Perforations	16.00			4483.00	
Change Over Sub	1.00			4484.00	
Blank Spacing	32.00			4516.00	
Change Over Sub	1.00			4517.00	
Bullnose	3.00			4520.00	54.00 Bottom Packers & Anchor
Total Tool Length:	87.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 70438

DST#: 2

ATTN: Robert Hendrix

Test Start: 2023.08.21 @ 22:09:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 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
179.00	SOMCW 93%W 5%M 2%O	0.880
882.00	SGOMCW 65%W 17%M 15%O 3%G	12.372

Total Length: 1061.00 ft Total Volume: 13.252 bbl

Num Fluid Samples: 0

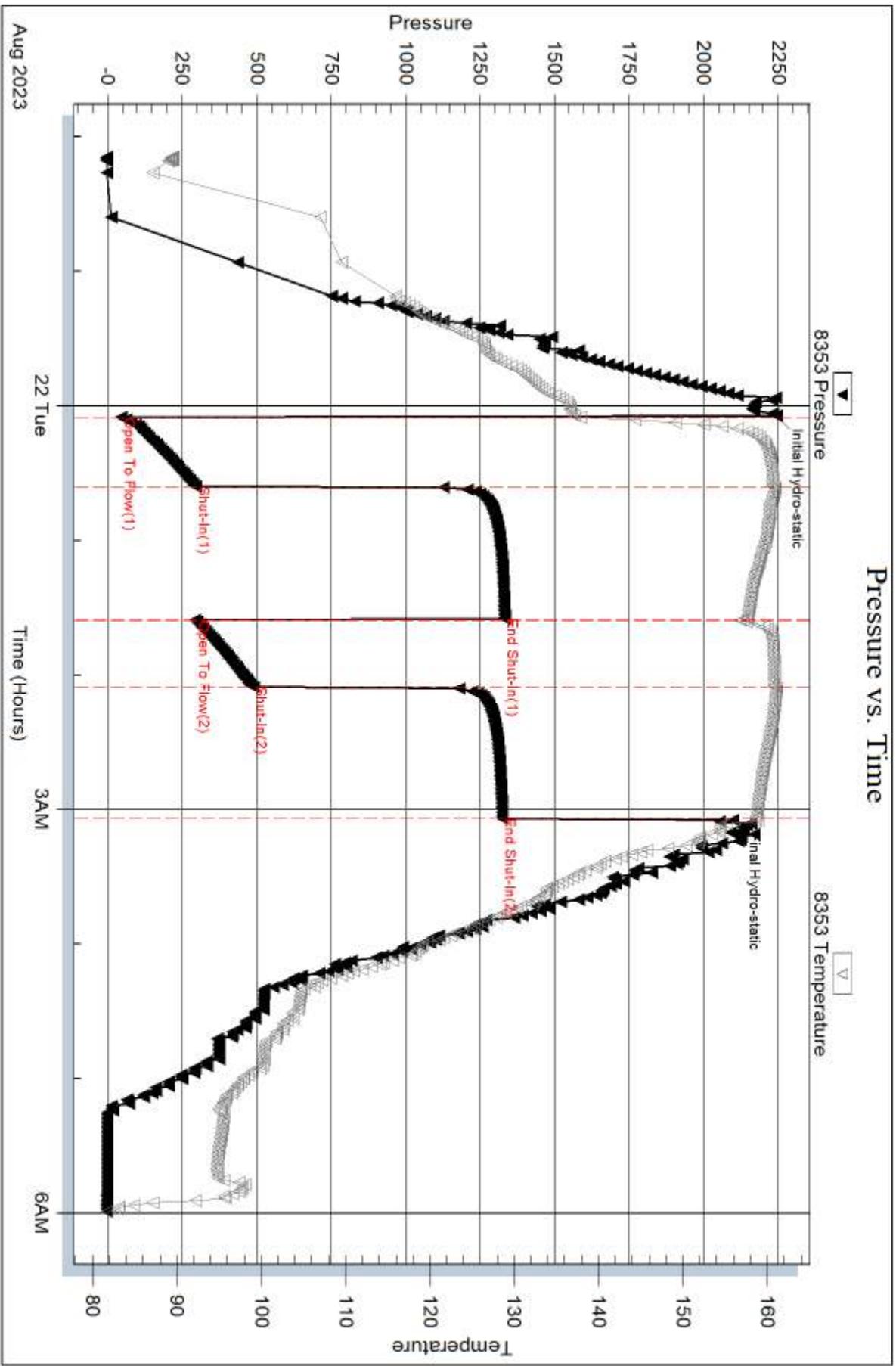
Num Gas Bombs: 0

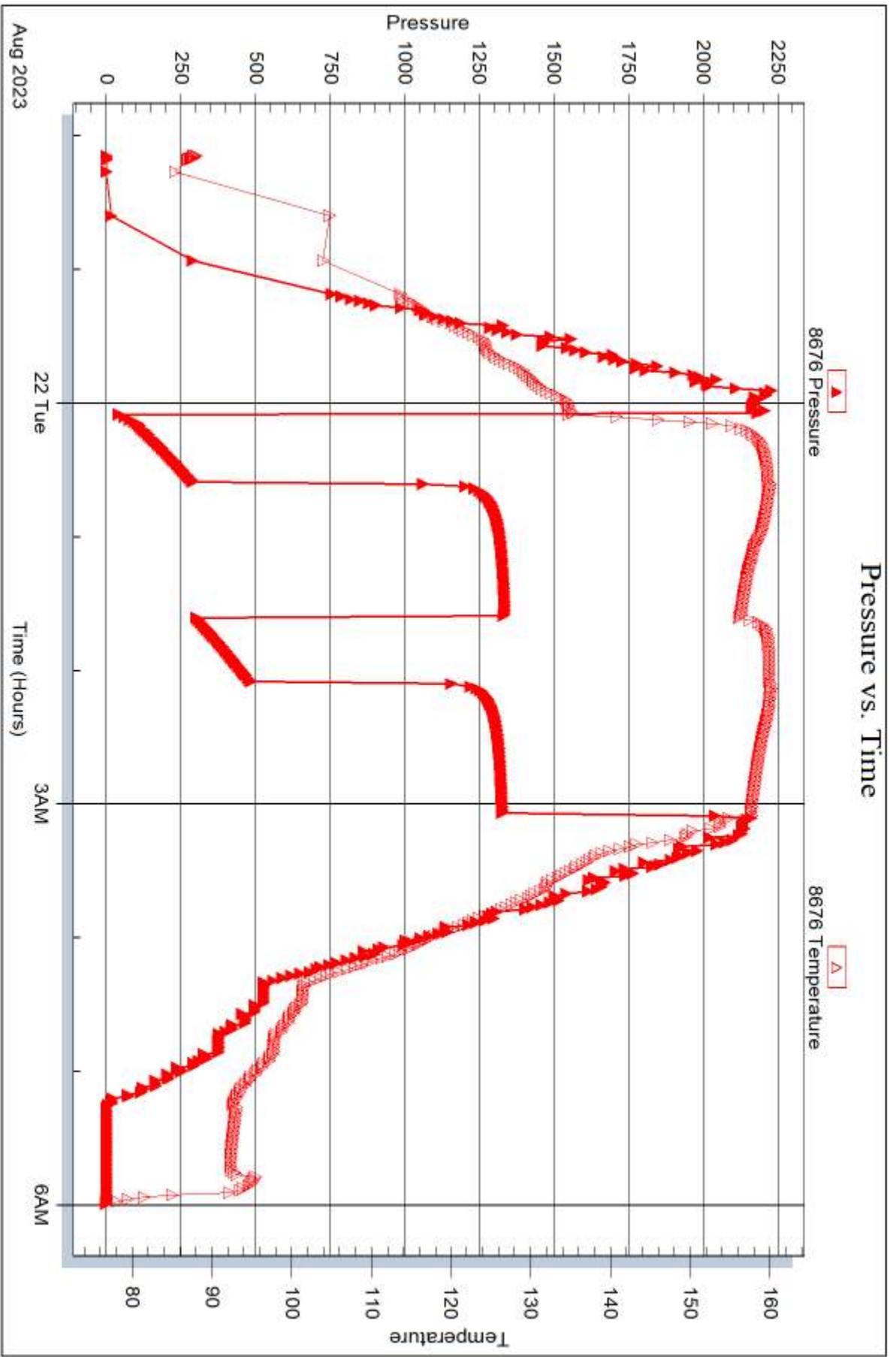
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Robert Hendrix

Hester #4-7

7-1S-39W Cheyenne,KS

Start Date: 2023.08.23 @ 05:15:00

End Date: 2023.08.23 @ 12:38:15

Job Ticket #: 70439 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.08.25 @ 12:09:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 70439

DST#: 3

ATTN: Robert Hendrix

Test Start: 2023.08.23 @ 05:15:00

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:20:00

Time Test Ended: 12:38:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: 4518.00 ft (KB) To 4603.00 ft (KB) (TVD)

Reference Elevations: 3412.00 ft (KB)

Total Depth: 4603.00 ft (KB) (TVD)

3407.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 22.43 psig @ 4519.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.08.23

End Date:

2023.08.23

Last Calib.:

1899.12.30

Start Time: 05:15:01

End Time:

12:38:15

Time On Btm:

2023.08.23 @ 07:19:15

Time Off Btm:

2023.08.23 @ 10:20:15

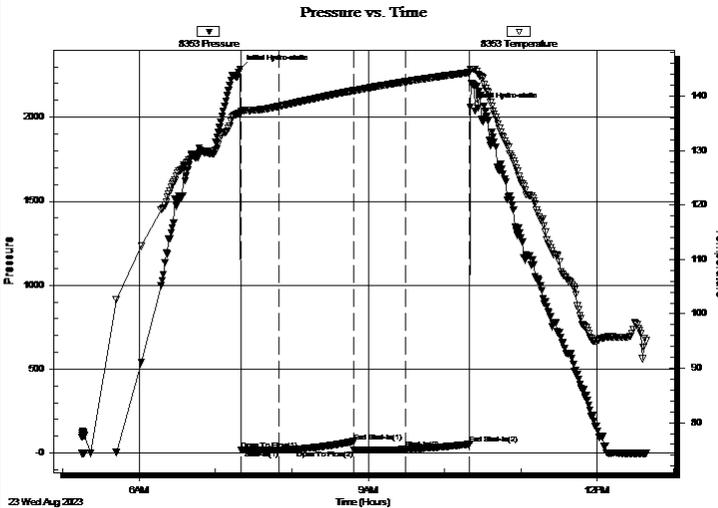
TEST COMMENT: 30:IF- Weak surface blow , built to 3/4" in 10 min, final stayed 3/4"

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	2286.91	136.92	Initial Hydro-static
1	20.16	137.01	Open To Flow (1)
31	20.14	138.14	Shut-In(1)
89	69.00	141.01	End Shut-In(1)
90	19.10	141.01	Open To Flow (2)
130	22.43	142.65	Shut-In(2)
181	52.75	144.34	End Shut-In(2)
181	2059.76	144.96	Final Hydro-static

Recovery

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

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 Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 70439

DST#: 3

ATTN: Robert Hendrix

Test Start: 2023.08.23 @ 05:15:00

Tool Information

Drill Pipe:	Length: 4327.00 ft	Diameter: 3.80 inches	Volume: 60.70 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 61.58 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4518.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4486.00	
Shut In Tool	5.00			4491.00	
Hydraulic tool	5.00			4496.00	
EM Tool	4.00			4500.00	
Jars	5.00			4505.00	
Safety Joint	3.00			4508.00	
Packer	5.00			4513.00	33.00 Bottom Of Top Packer
Packer	5.00			4518.00	
Stubb	1.00			4519.00	
Recorder	0.00	8353	Inside	4519.00	
Recorder	0.00	8676	Outside	4519.00	
Perforations	16.00			4535.00	
Change Over Sub	1.00			4536.00	
Blank Spacing	63.00			4599.00	
Change Over Sub	1.00			4600.00	
Bullnose	3.00			4603.00	85.00 Bottom Packers & Anchor
Total Tool Length:	118.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 70439

DST#: 3

ATTN: Robert Hendrix

Test Start: 2023.08.23 @ 05:15:00

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: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 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

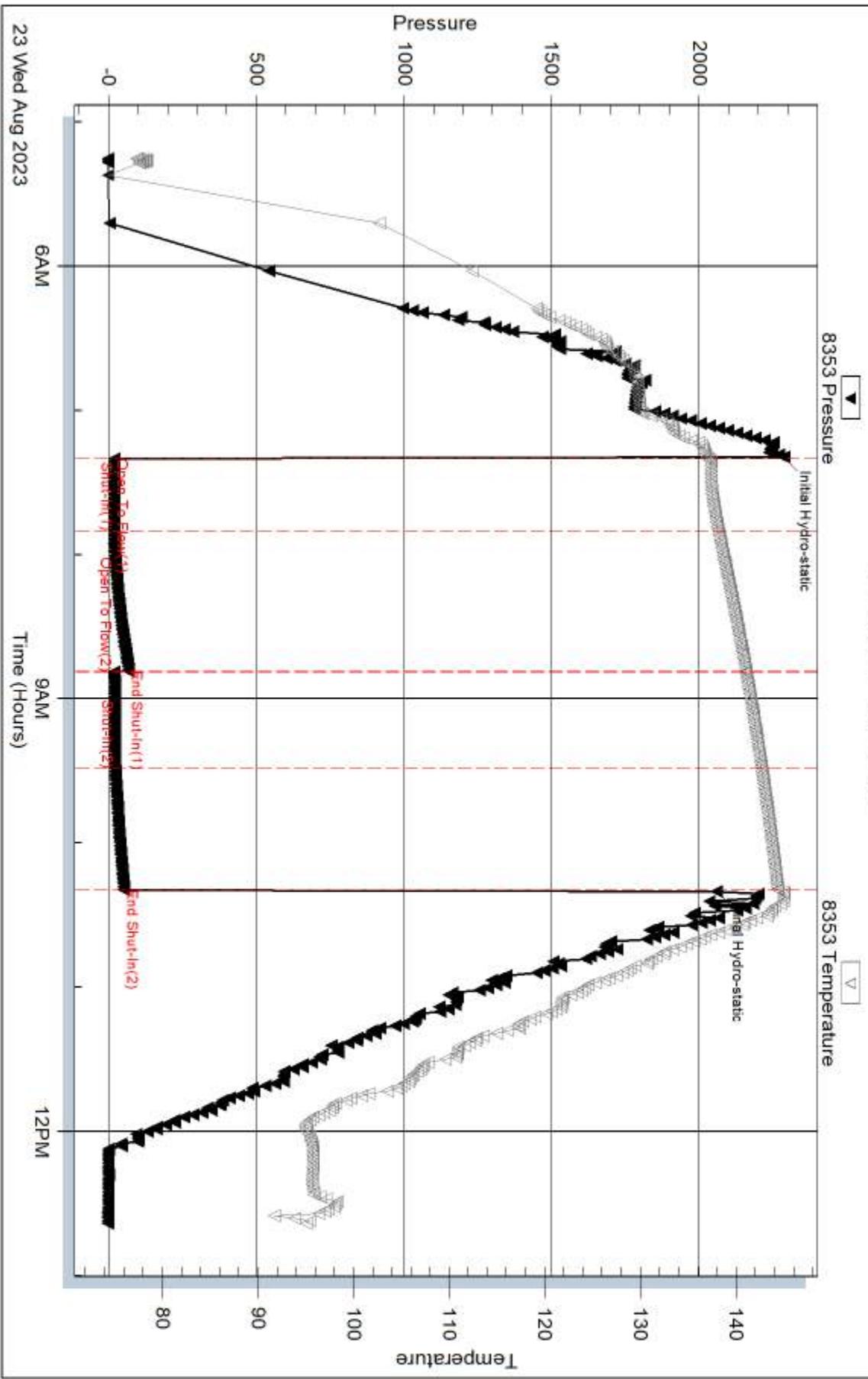
Inside

Murfin Drilling Company Inc

Hester #4-7

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 70439

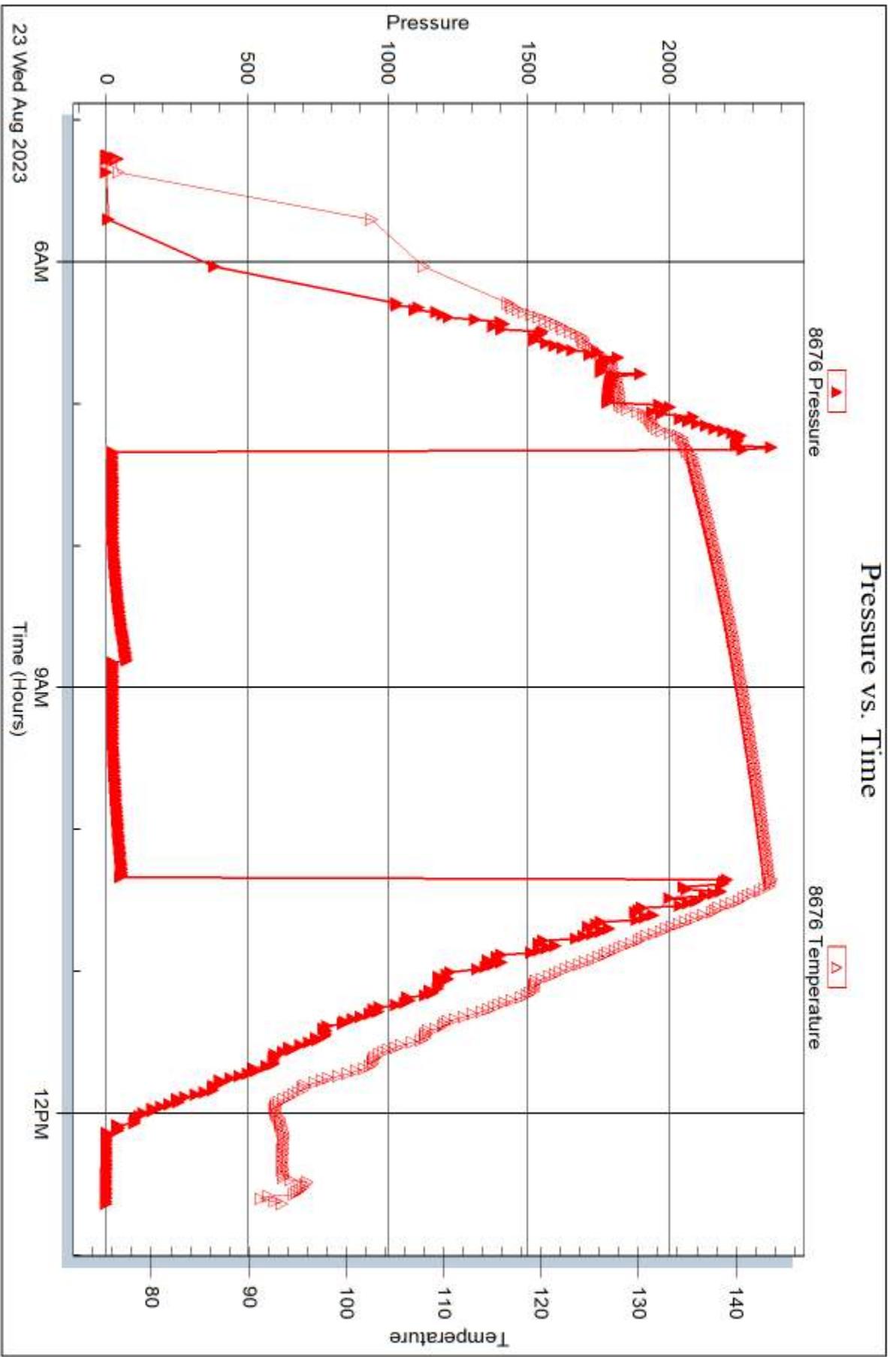
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Serial #: 8676

Outside Murfin Drilling Company Inc

Hester #4-7

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 70439

Printed: 2023.08.25 @ 12:09:08



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Robert Hendrix

Hester #4-7

7-1S-39W Cheyenne,KS

Start Date: 2023.08.24 @ 20:12:00

End Date: 2023.08.25 @ 03:15:00

Job Ticket #: 8/25 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.08.25 @ 12:07:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 8/25

DST#: 4

ATTN: Robert Hendrix

Test Start: 2023.08.24 @ 20:12:00

GENERAL INFORMATION:

Formation: **Ft. Scott- Celia**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:17:30

Time Test Ended: 03:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: 4768.00 ft (KB) To 4924.00 ft (KB) (TVD)

Reference Elevations: 3412.00 ft (KB)

Total Depth: 4924.00 ft (KB) (TVD)

3407.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 34.10 psig @ 4769.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.08.24

End Date:

2023.08.25

Last Calib.:

2023.08.25

Start Time: 20:12:01

End Time:

03:15:00

Time On Btm:

2023.08.24 @ 22:16:30

Time Off Btm:

2023.08.25 @ 01:20:30

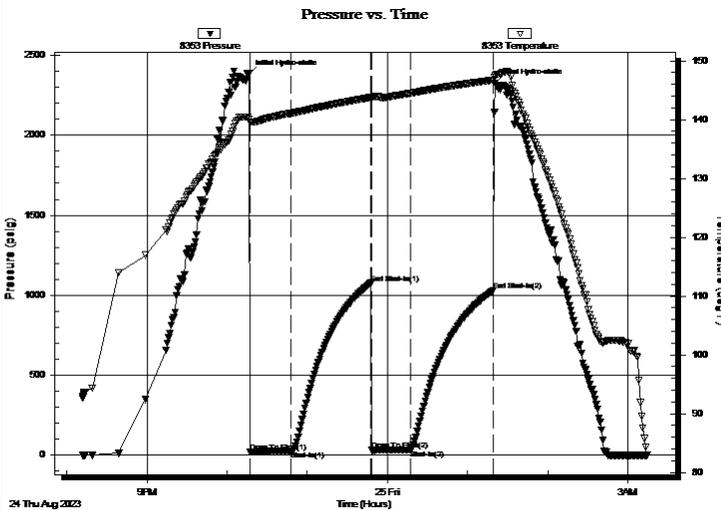
TEST COMMENT: 30:IF- Weak surface blow , built to 1/2" in 10 min, final is 1/2"

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	2383.75	140.00	Initial Hydro-static
1	21.42	139.63	Open To Flow (1)
32	27.23	141.06	Shut-In(1)
92	1076.27	143.78	End Shut-In(1)
92	30.03	143.78	Open To Flow (2)
121	34.10	144.48	Shut-In(2)
183	1029.63	146.74	End Shut-In(2)
184	2326.23	147.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Trace oil in tool) 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 Company Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 8/25

DST#: 4

ATTN: Robert Hendrix

Test Start: 2023.08.24 @ 20:12:00

Tool Information

Drill Pipe:	Length: 4580.00 ft	Diameter: 3.80 inches	Volume: 64.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 65.13 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4768.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	156.00 ft			
Tool Length:	189.00 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
Change Over Sub	1.00			4736.00	
Shut In Tool	5.00			4741.00	
Hydraulic tool	5.00			4746.00	
EM Tool	4.00			4750.00	
Jars	5.00			4755.00	
Safety Joint	3.00			4758.00	
Packer	5.00			4763.00	33.00 Bottom Of Top Packer
Packer	5.00			4768.00	
Stubb	1.00			4769.00	
Recorder	0.00	8353	Inside	4769.00	
Recorder	0.00	8676	Outside	4769.00	
Perforations	24.00			4793.00	
Change Over Sub	1.00			4794.00	
Blank Spacing	126.00			4920.00	
Change Over Sub	1.00			4921.00	
Bullnose	3.00			4924.00	156.00 Bottom Packers & Anchor
Total Tool Length:	189.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

7-1S-39W Cheyenne,KS

250 N Water Ste 300
Wichita, KS 67202

Hester #4-7

Job Ticket: 8/25

DST#: 4

ATTN: Robert Hendrix

Test Start: 2023.08.24 @ 20:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (Trace oil in tool) 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

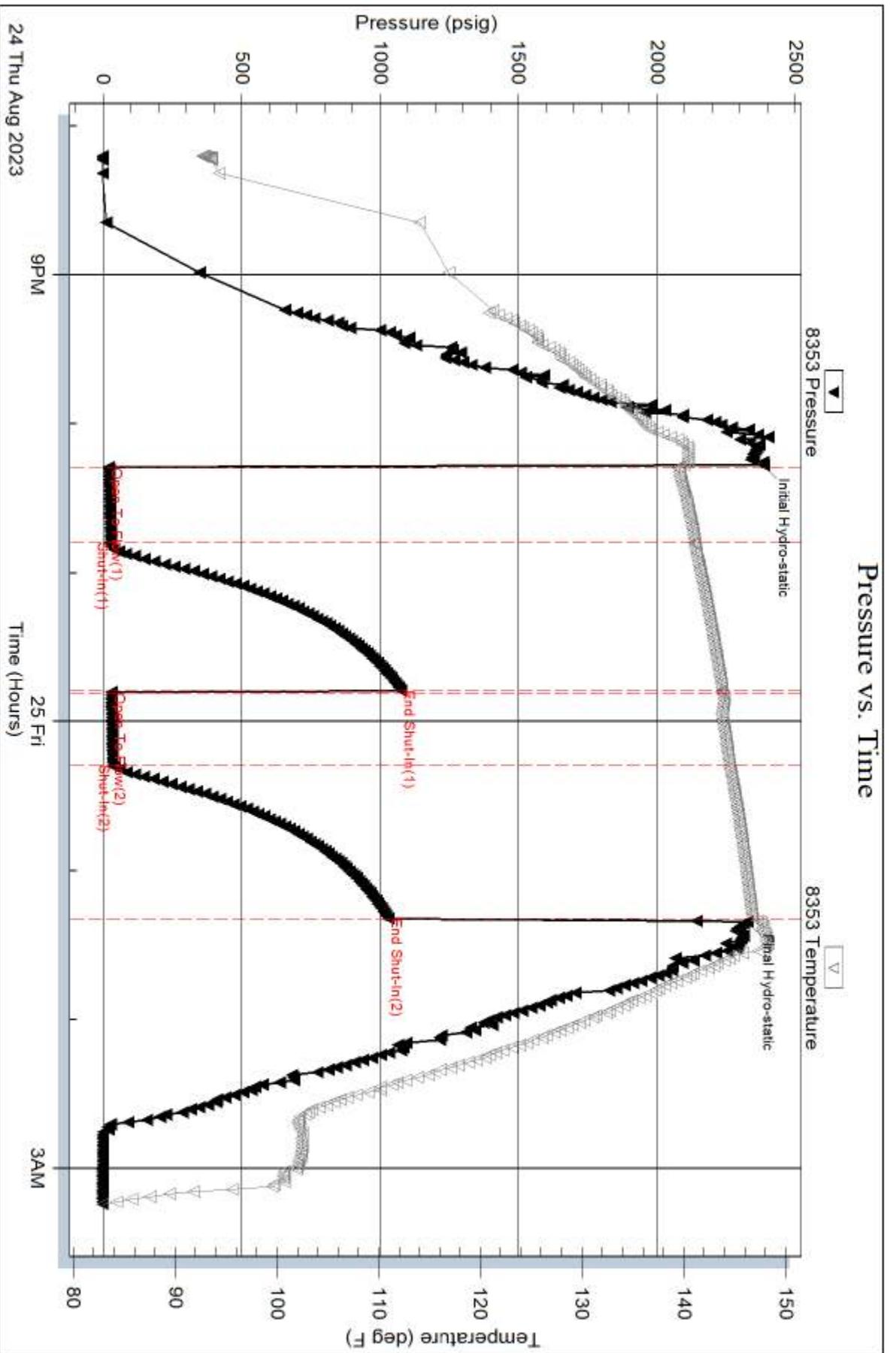
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

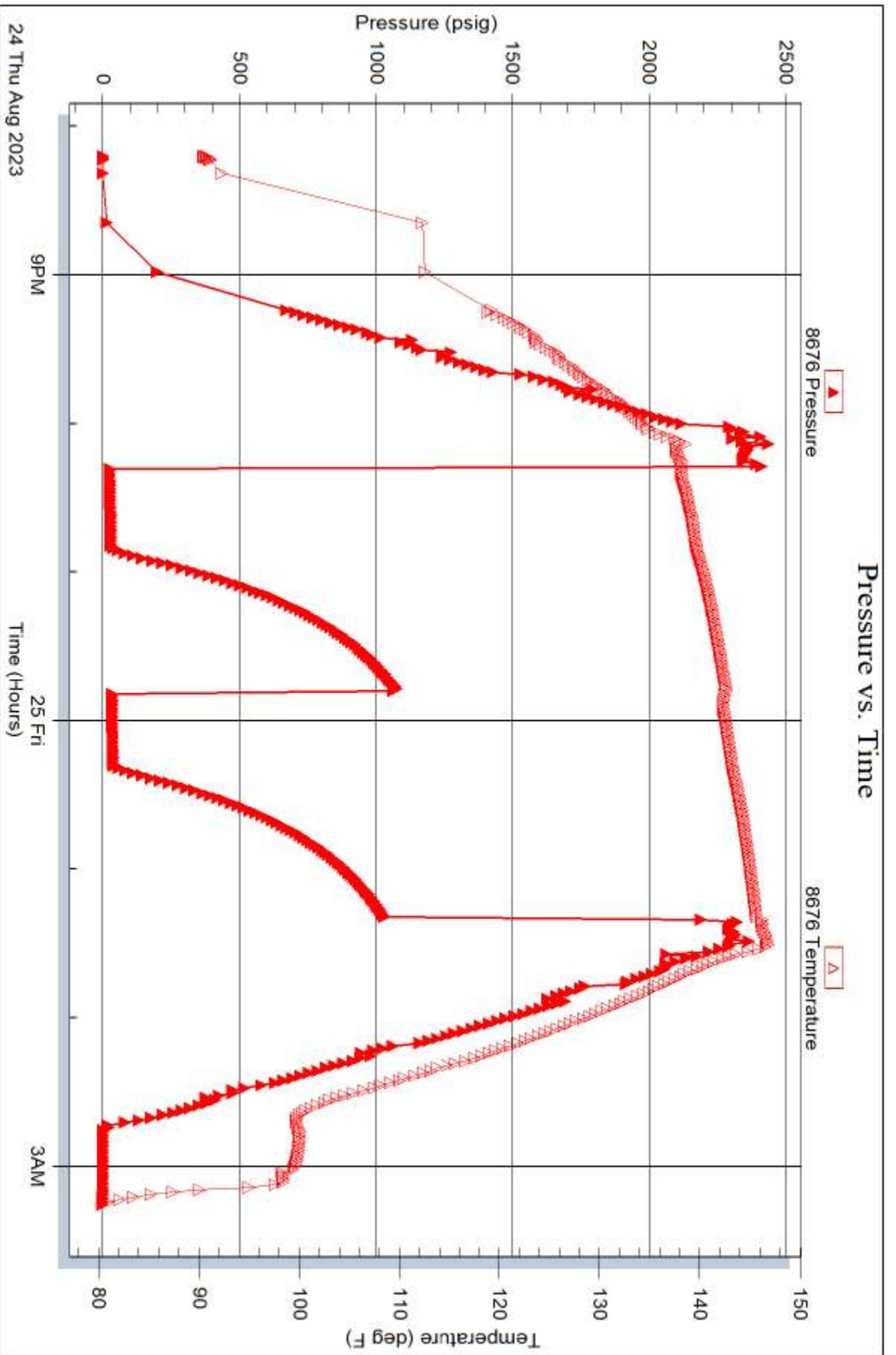


Serial #: 8676

Outside Marfin Drilling Company Inc

Hester #4-7

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 8/25

Printed: 2023.08.25 @ 12:07:48



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70437

Well Name & No. Hester #47 Test No. 1 Date 08/20/23
 Company Murfin Drilling Company Inc Elevation 3412 KB 3407 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo Robert Hendrix Rig Murfin #3
 Location: Sec. 7 Twp 1S Rge. 39W Co. Chayenne State KS

Interval Tested 4348-4462 Zone Tested LKC A-D
 Anchor Length 114' Drill Pipe Run 4170 Mud Wt. 8.9
 Top Packer Depth 4343 Drill Collars Run 179 Vis 65
 Bottom Packer Depth 4348 Wt. Pipe Run _____ WL 7.2
 Total Depth 4462 Chlorides 900 ppm System LCM 4#

Blow Description FF-Fair surface blow, built to BOB in 10min, Final is 28 1/4"
ISI- No blow back
FF-Fair surface blow, built to BOB in 10min, Final is 23 1/2"
ISI- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>179</u>	<u>SGMCW</u>	<u>2</u>	<u>1</u>	<u>62</u>	<u>35</u>
<u>598</u>	<u>SGWCM</u>	<u>2</u>	<u>2</u>	<u>7</u>	<u>89</u>
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 777 BHT 147' Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

Initial Hydrostatic 2141 Test 1950 Ruined Shale Packer _____
 Initial Flow 57 to 229 Jars 300 Ruined Packer _____
 Initial Shut-In 1256 Circ Sub _____ Hotel _____
 Final Flow 241 to 366 Hourly Standby _____ EM Tool Successful _____
 Final Shut-In 1239 Mileage 176 RT Accessibility _____
 Final Hydrostatic ~~2040~~ 2040 Sampler _____ Gas Sample _____
 T- On Location 23:39 Straddle _____ Sub Total 0
 Initial Flow 30 T-Started 01:15 Shale Packer _____ Total 2433.75
 Initial Shut-In 60 T-Open 03:20 Extra Packer _____ Tool Loaded _____ @ _____
 Final Flow 30 T-Pulled 06:30 Extra Recorder _____ MP/DST Disc't _____
 Final Shut-In 60 T-Out 09:07 Day Standby _____

Comments _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of 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. 70438

Well Name & No. Hester #4-7 Test No. 2 Date 02/21/23
 Company Murfin Drilling Company Inc Elevation 3412 KB 3407 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo Robert Hendrick Rig Murfin #3
 Location: Sec. 7 Twp 1S Rge. 39W Co. Cheyenne State KS

Interval Tested 4466-4520 Zone Tested LKC D'-G
 Anchor Length 54' Drill Pipe Run 4263 Mud Wt. 8.9
 Top Packer Depth 4461 Drill Collars Run 179 Vis 50
 Bottom Packer Depth 4466 Wt. Pipe Run _____ WL 7.2
 Total Depth 4520 Chlorides 700 ppm System LCM 4#

Blow Description: FF - Fair surface blow, BOB in 7 min, Final is 41 1/4"
ISF - No blow back for 55 min, Final work surface
FF - Fair surface blow, BOB in 8 min, Final 36 1/2"
ISF - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>179</u>	<u>SOMCOW</u>	<u>2</u>	<u>93</u>	<u>5</u>	
<u>882</u>	<u>SOMCOW</u>	<u>3</u>	<u>15</u>	<u>65</u>	<u>17</u>
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 1061 BHT 158° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 Initial Hydrostatic 2244 Test 1950 Ruined Shale Packer _____
 Initial Flow 47 to 296 Jars 300 Ruined Packer _____
 Initial Shut-In 1334 Circ Sub _____ Hotel _____
 Final Flow 295 to 489 Hourly Standby _____ EM Tool Successful _____
 Final Shut-In 1326 Mileage 176 RT 59.50 Accessibility _____
 Final Hydrostatic 2099 Sampler _____ Gas Sample _____
 T-On Location 21:55 Straddle _____ Sub Total 0
 Initial Flow 30 T-Started 22:09 Shale Packer _____ Total 2309.50
 Initial Shut-In 60 T-Open 00:05 Extra Packer _____ Tool Loaded _____ @ _____
 Final Flow 30 T-Pulled 03:11 Extra Recorder _____ MP/DST Disc't _____
 Final Shut-In 60 T-Out 06:01 Day Standby _____

Comments _____
 Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of 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. 70439

Well Name & No. Hester #4-7 Test No. 3 Date 08/22/23
 Company Murfin Drilling Company Inc Elevation 3412 KB 3407 GL
 Address 250 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo Robert Hendrix Rig Murfin #3
 Location: Sec. 7 Twp 1S Rge. 39W Co. Cheyenne State KS

Interval Tested 4518-4603 Zone Tested LKC H-5
 Anchor Length 85' Drill Pipe Run 4327 Mud Wt. 9.0
 Top Packer Depth 4513 Drill Collars Run 179 Vis 68
 Bottom Packer Depth 4518 Wt. Pipe Run _____ WL 7.2
 Total Depth 4603 Chlorides 1200 ppm System LCM 4#

Blow Description FF-Weak surface blow, built to 3/4" in 10 min, Final stayed 3/4"

FF- No blow back

FF- No blow

FF- No blow back

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

Rec Total 5' BHT 144' Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

Initial Hydrostatic 2287 Test 1950 Ruined Shale Packer _____
 Initial Flow 20 to 20 Jars 300 Ruined Packer _____
 Initial Shut-In 69 Circ Sub _____ Hotel _____
 Final Flow 19 to 22 Hourly Standby _____ EM Tool Successful -350
 Final Shut-In 53 Mileage 176 RT 59.50 Accessibility _____
 Final Hydrostatic 2060 Sampler _____ Gas Sample _____
 T- On Location 17:55/04:30 Straddle _____ Sub Total -350
 Initial Flow 30 T-Started 05:15 Shale Packer _____ Total 1959.50
 Initial Shut-In 60 T-Open 07:20 Extra Packer _____ Tool Loaded @ _____
 Final Flow 30 T-Pulled 10:20 Extra Recorder _____ MP/DST Disc't _____
 Final Shut-In 60 T-Out 12:38 Day Standby _____

Comments Torque converter went out on rig - Left rig at 18:10 to wait for them to repair. Arrived back to rig at 04:30.

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of 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. 70440

Well Name & No. Hester #4-7 Test No. 4 Date 08/24/23
 Company Murfin Drilling Company Inc Elevation 3412 KB 3407 GL
 Address 850 N Water Ste 300 Wichita, KS 67202
 Co. Rep / Geo Robert Hendrix Rig Murfin #3
 Location: Sec. 7 Twp 1S Rge. 39W Co. Cheyenne State KS

Interval Tested 4768-4984 Zone Tested Ft. Scott - Celia
 Anchor Length 156' Drill Pipe Run 4580 Mud Wt. 9.3
 Top Packer Depth 4763 Drill Collars Run 179 Vis 6.3
 Bottom Packer Depth 4768 Wt. Pipe Run _____ WL 7.2
 Total Depth 4984 Chlorides 1200 ppm System LCM 6#

Blow Description Weak surface blow, built to 1/2" in 10 min, Final is 1/2"

ISI - No blow back
FI - No blow
ESI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud (trace oil in tool)</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 _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 5' BHT 146 Gravity - API RW - @ - °F Chlorides - ppm
 Initial Hydrostatic 2384 Test 1950 Ruined Shale Packer _____
 Initial Flow 21 to 27 Jars 300 Ruined Packer _____
 Initial Shut-In 1076 Circ Sub _____ Hotel _____
 Final Flow 30 to 34 Hourly Standby _____ EM Tool Successful -350
 Final Shut-In 1030 Mileage 176 RT Accessibility _____
 Final Hydrostatic 2326 154 + 29.75 Sampler _____ Gas Sample _____
 T- On Location 19:00 Straddle _____ Sub Total 1008.33 - 350
 Initial Flow 30 T-Started 20:12 Shale Packer _____ Total 2083.75 + 1008.33
 Initial Shut-In 60 T-Open 22:17 Extra Packer _____ Tool Loaded 04/25 @ 04:40
 Final Flow 30 T-Pulled 01:20 Extra Recorder _____ MP/DST Disc't _____
 Final Shut-In 60 T-Out 03:16 Day Standby 2d 6.25h

Comments _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damage of any kind of 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.