

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 Recompletion Date _____ 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	GIENGER 1-33
Doc ID	1585072

All Electric Logs Run

DIL
DUCP
MEL
BHCS

DRILLING REPORT - LOG TOPS

MDCI
 Gienger #1-33
 500' FNL 500' FWL
 Sec. 33-T2S-R40W
 3456' KB

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
Anhydrite	3348	+108	-13	3344	+112	-9
B/Anhydrite	3382	+74	-7	3378	+78	-3
Topeka	4172	-716	-2	4163	-707	+7
Oread	4279	-823	+6	4280	-824	+5
Lansing	4364	-908	+3	4361	-905	+6
Stark	4594	-1138	+4	4593	-1137	+5
Mound City	4658	-1202	+5	4655	-1199	+8
Ft Scott	4791	-1335	+11	4791	-1335	+11
Oakley	4867	-1411	+10	4875	-1419	+2
Mississippi	5144	-1688	+5	5140	-1684	+11
RTD	5250	-1794				
LTD				5246	-1790	



CEMENT TREATMENT REPORT

Customer:	Murfin Drilling	Well:	Glenger 1-33	Ticket:	WP 1479
City, State:		County:	Cheyenne KS	Date:	6/13/2021
Field Rep:	Jimmie Cottrell	S-T-R:	33-2S-40W	Service:	PTA

Downhole Information	
Hole Size:	7 7/8 In
Hole Depth:	5250 ft
Casing Size:	In
Casing Depth:	ft
Tubing / Liner:	4 1/2 DP In
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbls

Calculated Slurry - Lead	
Blends:	H-Plug
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	64.0 bbls
Total Sacks:	255 sx

Calculated Slurry - Tail	
Blends:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / 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
515A			-	-	ON LOCATION
525A			-	-	SAFETY MEETING
545A			-	-	RIG UP
653A	3.0	200.0	5.0	5.0	H2O AHEAD
656A	3.0	250.0	12.5	12.5	CEMENT 50 SX H-PLUG @ 3360 FT
704A	3.0	200.0	5.0	5.0	DISPLACE H2O
706A					RIG PUMP MUD FOR DISPLACEMENT
					-
738A	3.0	200.0	5.0	5.0	H2O AHEAD
740A	4.0	200.0	25.0	25.0	CEMENT 100 SX H-PLUG @ 2580 FT
754A	4.5	200.0	30.0	30.0	DISPLACE H2O
910A	3.0	225.0	5.0		H2O AHEAD
912A	3.0	200.0	12.5		CEMENT 50 SX H-PLUG @ 360 FT
915A	3.0	200.0	1.5		DISPLACE H2O
1000A	1.5	100.0	7.5		PUMP 30 SX H-PLUG IN RATHOLE
1012A	1.5	100.0	3.8		PUMP 15 SX H-PLUG IN MOUSEHOLE
1016A	1.5	100.0	2.5		PUMP 10 SX H-PLUG @ 40 FT
1020A					WASH UP
1030A					RIG DOWN
1050A					LEFT LOCATION

CREW		UNIT	SUMMARY		
Cementer:	Jimmie	208	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Spencer	205	2.8 bpm	181 psi	115 bbls
Bulk #1:					
Bulk #2:					

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Company Inc.**

LEASE **Glenger #1-33**

FIELD **Wildcat**

LOCATION **500' Int & 500' Int**

SEC **33** TWP **2s** RGE **40w**

COUNTY **Cheyenne** STATE **Kansas**

CONTRACTOR **Murfin Drilling Company Inc. R13**

STUD **6/3/2021** COMP **6/13/2021**

RTD **5250'** LID **5247'**

MUD UP **3700'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **4070'** TO **2550'**

DRILLING TIME KEPT FROM **4070'** TO **2550'**

SAMPLES EXAMINED FROM **4070'** TO **2550'**

GEOLOGICAL SUPERVISION FROM **4000'**

GEOLOGIST ON WELL **Robert D. Hendrix**

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Anchorite

Oread

Lansing

Mound City

Ft. Scott

Oakley/Shale

Mississippian

RTD

ELEVATIONS

KB **3456'**

DF **3451'**

GL **3451'**

Measurements are All From **Kelly Bustin**

CASING CONDUCTOR **8-5/8" at 3099'**

PRODUCTION

Source: **McGraw Hill**

API# **15-023-21552**

33

3344 (+112)

4162 (-706)

4280 (-824)

4361 (-905)

4656 (-1200)

4791 (-1335)

4874 (-1418)

5140 (-1684)

3346 (+110)

4177 (-716)

4364 (-908)

4658 (-1202)

4797 (-1336)

4867 (-1411)

5144 (-1688)

3346 (+110)

4177 (-716)

4364 (-908)

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4364 (-908)

4658 (-1202)

4797 (-1336)

4867 (-1411)

5144 (-1688)

3346 (+110)

4177 (-716)



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Gienger #1-33

33-2s-40w Cheyenne KS

Start Date: 2021.06.08 @ 17:32:00

End Date: 2021.06.09 @ 01:28:21

Job Ticket #: 67014 DST #: 1

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

Printed: 2021.06.14 @ 10:55:25

Murfin Drilling Co., Inc.

33-2s-40w Cheyenne KS

Gienger #1-33

DST # 1

LKC "A-D"

2021.06.08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

33-2s-40w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Gienger #1-33

Job Ticket: 67014

DST#: 1

ATTN: Robert Hendrix

Test Start: 2021.06.08 @ 17:32:00

GENERAL INFORMATION:

Formation: **LKC "A - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:32:06

Time Test Ended: 01:28:21

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

Interval: 4312.00 ft (KB) To 4446.00 ft (KB) (TVD)

Reference Elevations: 3456.00 ft (KB)

Total Depth: 4446.00 ft (KB) (TVD)

3451.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 24.87 psig @ 4313.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.08

End Date:

2021.06.09

Last Calib.: 2021.06.09

Start Time: 17:32:01

End Time:

01:28:21

Time On Btm: 2021.06.08 @ 21:31:51

Time Off Btm: 2021.06.08 @ 23:19:06

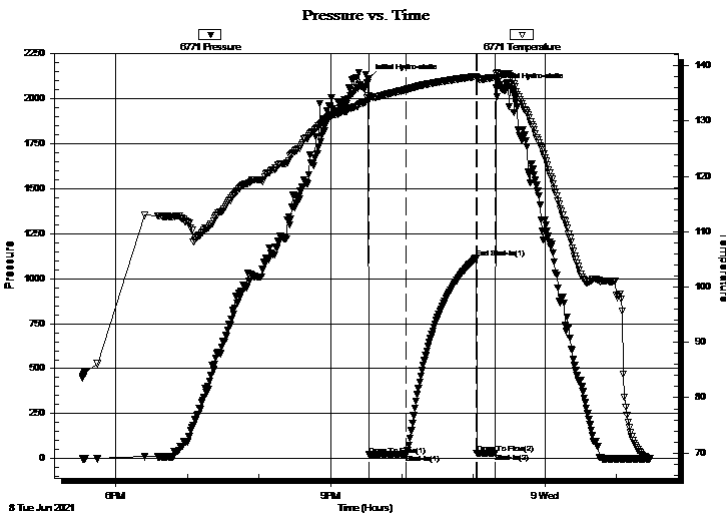
TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 3/4", died back to 1/2"

60 - IS: No blow back

15 - FF: No blow

Pulled Tools

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.78	134.51	Initial Hydro-static
1	21.15	133.69	Open To Flow (1)
32	24.87	135.70	Shut-In(1)
91	1114.24	138.08	End Shut-In(1)
91	27.84	137.73	Open To Flow (2)
106	29.56	137.87	Shut-In(2)
108	2062.50	138.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w /trace of oil 100%m	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

33-2s-40w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Gienger #1-33

Job Ticket: 67014

DST#: 1

ATTN: Robert Hendrix

Test Start: 2021.06.08 @ 17:32:00

Tool Information

Drill Pipe:	Length: 4110.00 ft	Diameter: 3.80 inches	Volume: 57.65 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	76000.00 lb
			<u>Total Volume: 58.52 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4312.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	134.00 ft				
Tool Length:	167.00 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			4280.00	
Shut In Tool	5.00			4285.00	
Hydraulic tool	5.00			4290.00	
Jars	5.00			4295.00	
EM Tool	4.00			4299.00	
Safety Joint	3.00			4302.00	
Packer	5.00			4307.00	33.00 Bottom Of Top Packer
Packer	5.00			4312.00	
Stubb	1.00			4313.00	
Recorder	0.00	6771	Inside	4313.00	
Recorder	0.00	8367	Outside	4313.00	
Perforations	30.00			4343.00	
Change Over Sub	1.00			4344.00	
Drill Pipe	95.00			4439.00	
Change Over Sub	1.00			4440.00	
Perforations	3.00			4443.00	
Bullnose	3.00			4446.00	134.00 Bottom Packers & Anchor
Total Tool Length:	167.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

33-2s-40w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Gienger #1-33

Job Ticket: 67014

DST#: 1

ATTN: Robert Hendrix

Test Start: 2021.06.08 @ 17:32:00

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: 6.39 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
30.00	Mud w /trace of oil 100%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

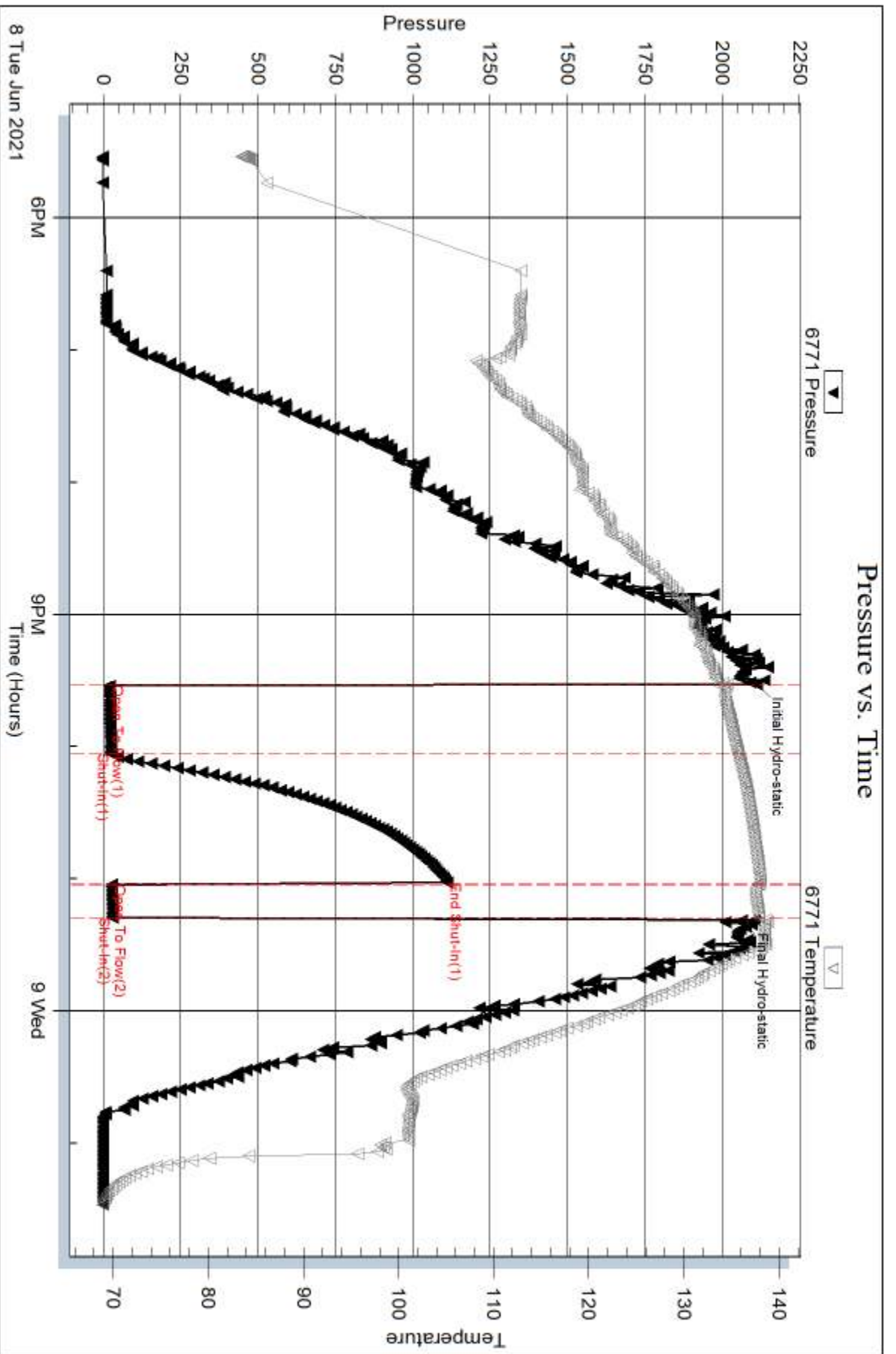
Num Gas Bombs: 0

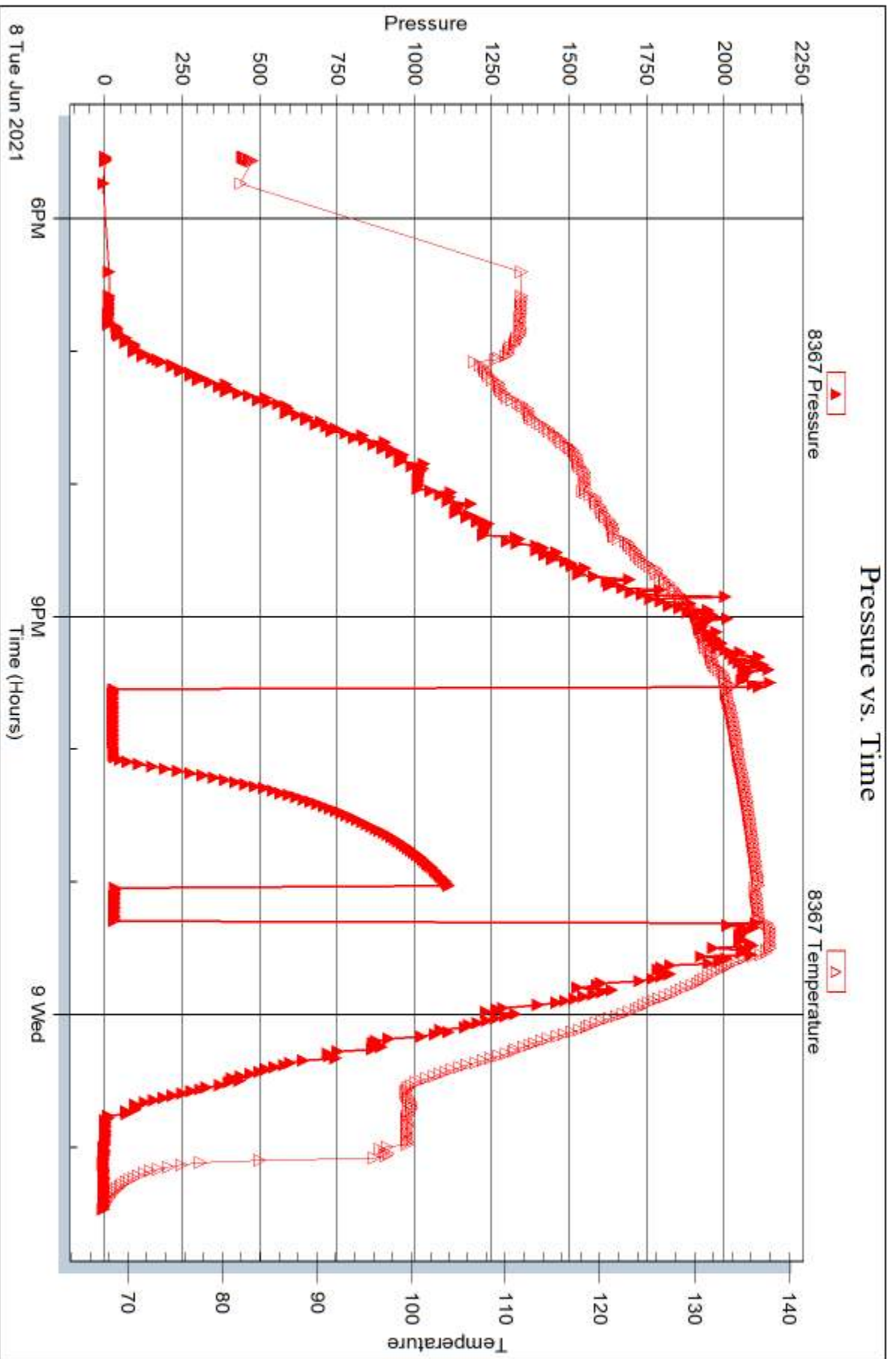
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N. Water STE 300
Wichita, KS 67202

ATTN: Robert Hendrix

Gienger #1-33

33-2s-40w Cheyenne KS

Start Date: 2021.06.09 @ 21:58:00

End Date: 2021.06.10 @ 06:42:50

Job Ticket #: 67015 DST #: 2

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

Printed: 2021.06.14 @ 10:54:30

Murfin Drilling Co., Inc.
33-2s-40w Cheyenne KS
Gienger #1-33
DST # 2
LKC "G-J"
2021.06.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

33-2s-40w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Gienger #1-33

Job Ticket: 67015

DST#: 2

ATTN: Robert Hendrix

Test Start: 2021.06.09 @ 21:58:00

GENERAL INFORMATION:

Formation: **LKC "G - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:13:21

Time Test Ended: 06:42:50

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4446.00 ft (KB) To 4605.00 ft (KB) (TVD)

Reference Elevations: 3456.00 ft (KB)

Total Depth: 4605.00 ft (KB) (TVD)

3451.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: 133.94 psig @ 4447.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.09

End Date:

2021.06.10

Last Calib.:

2021.06.10

Start Time: 21:58:01

End Time:

06:42:50

Time On Btm:

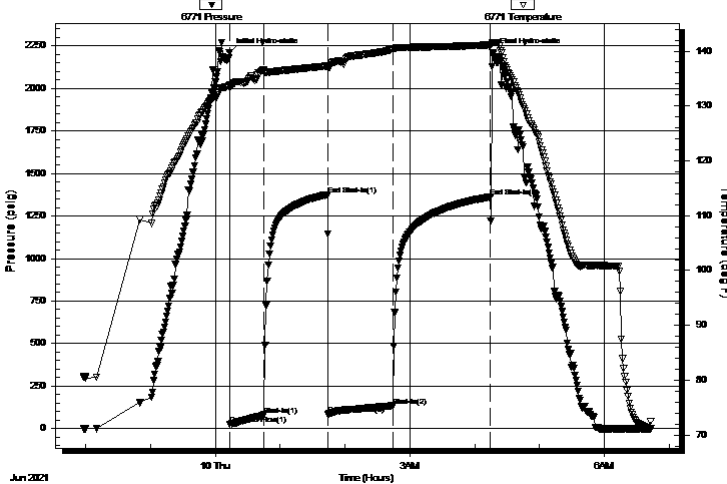
2021.06.10 @ 00:13:06

Time Off Btm:

2021.06.10 @ 04:16:36

TEST COMMENT: 30 - IF: Blow built to 3"
60 - IS: No blow back
60 - FF: Blow built to 2 3/4"
90 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.93	133.76	Initial Hydro-static
1	24.13	133.41	Open To Flow (1)
32	77.19	136.51	Shut-In(1)
91	1376.22	137.30	End Shut-In(1)
91	85.92	137.08	Open To Flow (2)
151	133.94	140.31	Shut-In(2)
242	1361.68	141.12	End Shut-In(2)
244	2210.14	141.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
245.00	Mud 100%	1.82

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 Co., Inc.

33-2s-40w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Gienger #1-33

Job Ticket: 67015

DST#: 2

ATTN: Robert Hendrix

Test Start: 2021.06.09 @ 21:58:00

Tool Information

Drill Pipe:	Length: 4265.00 ft	Diameter: 3.80 inches	Volume: 59.83 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 60.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4446.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	159.00 ft			
Tool Length:	192.00 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			4414.00	
Shut In Tool	5.00			4419.00	
Hydraulic tool	5.00			4424.00	
Jars	5.00			4429.00	
EM Tool	4.00			4433.00	
Safety Joint	3.00			4436.00	
Packer	5.00			4441.00	33.00 Bottom Of Top Packer
Packer	5.00			4446.00	
Stubb	1.00			4447.00	
Recorder	0.00	6771	Inside	4447.00	
Recorder	0.00	8367	Outside	4447.00	
Perforations	25.00			4472.00	
Change Over Sub	1.00			4473.00	
Drill Pipe	126.00			4599.00	
Change Over Sub	1.00			4600.00	
Perforations	2.00			4602.00	
Bullnose	3.00			4605.00	159.00 Bottom Packers & Anchor
Total Tool Length:	192.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

33-2s-40w Cheyenne KS

250 N. Water STE 300
Wichita, KS 67202

Gienger #1-33

Job Ticket: 67015

DST#: 2

ATTN: Robert Hendrix

Test Start: 2021.06.09 @ 21:58:00

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: 59.00 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
245.00	Mud 100%	1.824

Total Length: 245.00 ft Total Volume: 1.824 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

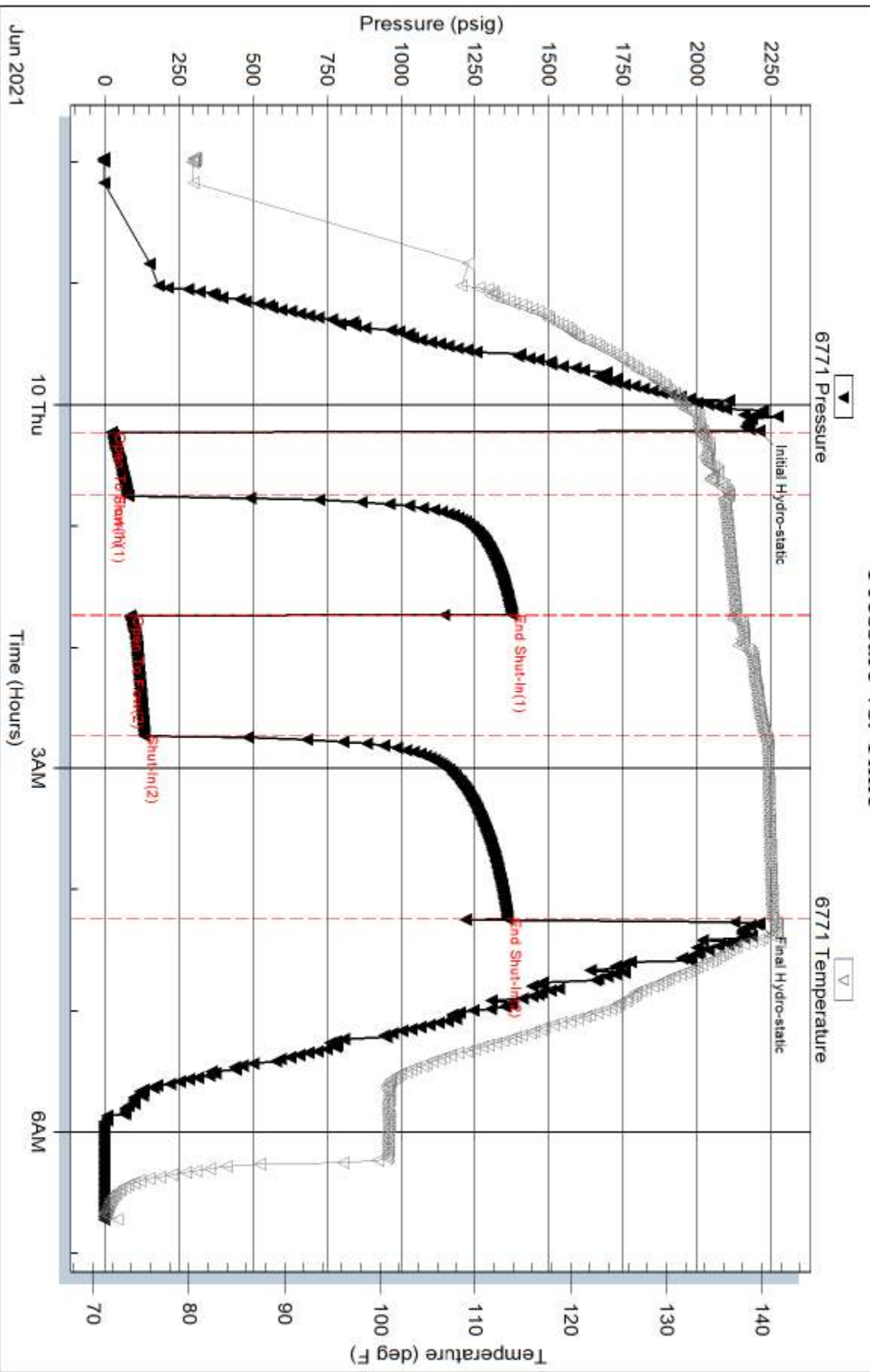
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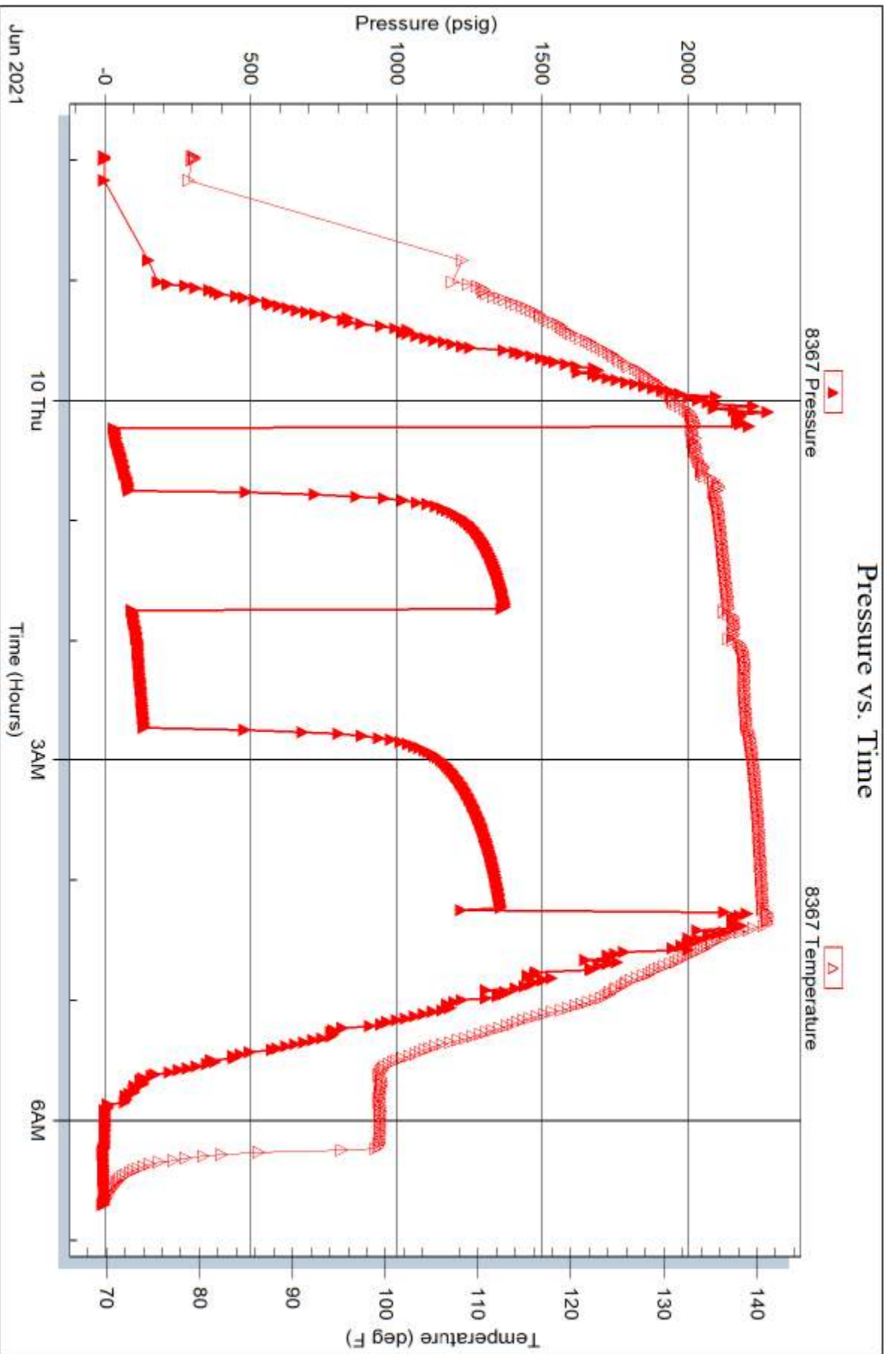
Laboratory Name:

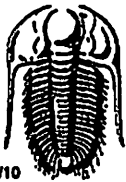
Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67014

Well Name & No. Gienger #1-33 Test No. 1 Date 6-8-21
 Company Murfin Drilling Co. Inc Elevation 3456 KB 3451 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #3
 Location: Sec. 33 Twp 25 Rge. 40w Co. Cheyenne State KS

Interval Tested 4312-4446 Zone Tested Lans "A-D"
 Anchor Length 134 Drill Pipe Run 4110 Mud Wt. 9.1
 Top Packer Depth 4307 Drill Collars Run 177 Vis 55
 Bottom Packer Depth 4312 Wt. Pipe Run - WL 6.4
 Total Depth 4446 Chlorides 700 ppm System LCM 1/2
 Blow Description IF: 1/4" Blow at open, built to 3/4", died back to 1/2"
ISI: No blowback
FF: No blow
Pulled Tools

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>mud w/trace of oil</u>	<u>trace</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 30 BHT 138 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2112 Test 1300 T-On Location 15:35 6/8
 (B) First Initial Flow 21 Jars 250 T-Started 17:32
 (C) First Final Flow 25 Safety Joint 75 T-Open 21:32
 (D) Initial Shut-In 1114 Circ Sub _____ T-Pulled 23:17
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 1:20 6/9
 (F) Second Final Flow 30 Mileage 154 RT 192.50 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2063 Straddle _____ EM Tool 350
 Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 15 Extra Recorder _____ Extra Copies _____
 Final Shut-In - Day Standby _____ Sub Total 350
 Accessibility _____ Total _____
 Sub Total 1817.50 MP/DST Disc't _____

Approved By [Signature] 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. 67015

Well Name & No. Gienger #1-33 Test No. 2 Date 6-9-21
 Company Murfin Drilling Co. Inc Elevation 3456 KB 3451 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #3
 Location: Sec. 33 Twp 2s Rge. 40w Co. Cheyenne State KS

Interval Tested 4446-4605 Zone Tested Lans "G-J"
 Anchor Length 159 Drill Pipe Run 4265 Mud Wt. 9.0
 Top Packer Depth 4441 Drill Collars Run 177 Vis 59
 Bottom Packer Depth 4446 Wt. Pipe Run - WL 6.4
 Total Depth 4605 Chlorides 700 ppm System LCM trace
 Blow Description IF: Blow built to 3"
ISI: No blowback
FF: Blow built to 2 3/4"
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>245</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 Total 245 BHT 141 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2212 Test 1300 T-On Location 21:00 6/9
 (B) First Initial Flow 24 Jars 250 T-Started 21:58
 (C) First Final Flow 77 Safety Joint 75 T-Open 00:13
 (D) Initial Shut-in 1376 Circ Sub _____ T-Pulled 4:14
 (E) Second Initial Flow 86 Hourly Standby _____ T-Out 6:30 6/10
 (F) Second Final Flow 134 Mileage 154RT X2 385 Comments Tools loaded @
 (G) Final Shut-in 1362 Sampler _____ 15:15 6/11
 (H) Final Hydrostatic 2210 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer 335
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 685
 Accessibility _____ Total 2695
 Sub Total 2010 MP/DST Disc't _____

Approved By _____ Our Representative James Winder
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