

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	SHONES 3-5
Doc ID	1636208

All Electric Logs Run

DIL
MEL
DUCP
BHCS

DRILLING REPORT - LOG TOPS

MDCI
Shones #3-5
800' FSL 1125' FWL
Sec. 5-T1S-R37W
3224' KB

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
Anhydrite	3182	+42	+6	3182	+42	+6
B/Anhydrite	3216	+8	+2	3217	+7	+1
Topeka	3970	-746	-4	3967	-743	-1
Oread	4098	-874	+3	4099	-875	+2
Lansing	4176	-952	+1	4178	-954	-1
Stark	4406	-1182	-10	3399	-1175	-3
Mound City				4452	-1228	Flat
Marmaton	4492	-1268	-5	4494	-1270	-7
Ft Scott	4580	-1356	-8	4579	-1355	-7
Oakley	4663	-1439	-6	4667	-1443	-10
RTD	4800	-1576				
LTD				4804		

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Shones #3-5

Well Id:

Location: 800' FSL & 1125' FWOL Sec 5 T1S R37W

License Number:

Spud Date: 2/14/2022

Region:

Drilling Completed: 2/23/2022

Surface Coordinates:

Bottom Hole

Coordinates:

Ground Elevation (ft): 3219

K.B. Elevation (ft): 3224

Logged Interval (ft): 3870 To: 4800

Total Depth (ft): 4800

Formation: Lower Penn

Type of Drilling Fluid:

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

OPERATOR

Company: Murfin Drilling Company, Inc

Address: 250 N Water Suite 300
Wichita, Kansas 67202

GEOLOGIST

Name: Rod Andersen

Company: Rod Andersen Consulting

Address: 100 S. Main Suite 225
Wichita, Kansas 67202

Cores

DSTs

Comments

ROCK TYPES



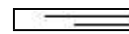
Anhy



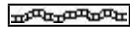
Coal



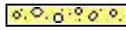
Lmst



Shcol



Bent



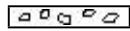
Congl



Meta



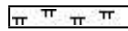
Shgy



Brec



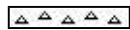
Dol



Mrlst



Sltst



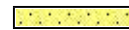
Cht



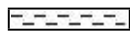
Gyp



Salt



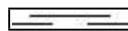
Ss



Clyst



Igne



Shale



Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral

- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackst

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOW

- Even
- Spotted
- Ques
- Dead

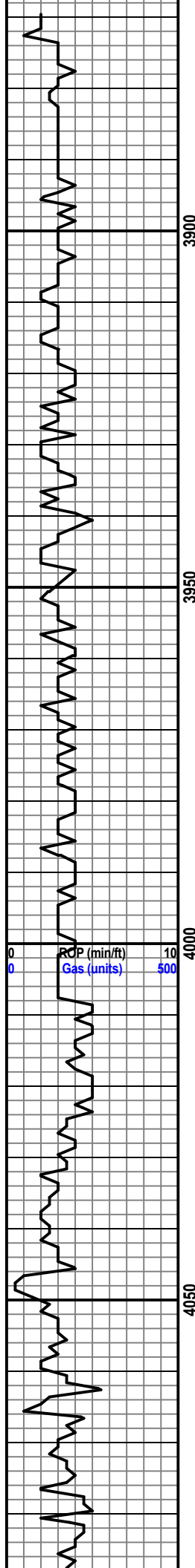
INTERVAL

- Core
- Dst

EVENT

- Rft
- Sidewall

Curve Track 1 ROP (min/ft) ——— Gas (units) - - - - -	MD	Porosity Type	Porosity	Lithology	Geological Descriptions	TG, C1-C5
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>ROP (min/ft) 10</p> <p>Gas (units) 500</p> </div> <div style="text-align: center;"> <p>38</p> </div> </div>	3850	<p>24%</p> <p>18%</p> <p>12%</p> <p>8%</p>		Anhydrite 3182 +42 3216 +8	Base Anhydrite	<p>Geologist on location @3570 at 6:30 pm Bit trip 3838. To windy to strap. Straight hole test 1 degree</p> <p style="text-align: right;">2/17/2022</p> <p>Mud Wt 8.9</p>



3900

3950

4000

4050

Sh red, gray, tan

Ls white fxln-mxln oolitic in part good black stain sli free oil on some breaks yellow fluor no odor

Ls fxln-mxln oolitic in part fair black stain no free oil yellow fluor no odor

Sh red, gray, black

Ls cream-tan fxln no show

Ls cream-tan fxln-mxln foss no show

Ls cream fxln no show

Sh red, gray, black

Ls fxln foss scattered black stain

Sh red, gry, black

Sh red, black

Sh red, gray, black

Ls white fxln foss no show

Sh red, gray, black

Sh red gray w stringers of ls fxln oolitic in part

TOPEKA 3970 -746

CFS 3990

DEER CREEK 3994 -770

LACOMPTON 4050 -826

CFS 4051

CFS 4310

2/20/2022

mud:
Wt: 9.1
Vis: 76
Lcm: 1

LANSING H 4338 -1114

DST #3

4325-4410

FP: 19-21#

Sl: 186-106#

Rec; 15 mud tr oil

LANSING J 4390 -1166

STARK SHALE 4406 -1182

CFS 4410

LANSING K 4436 -1212

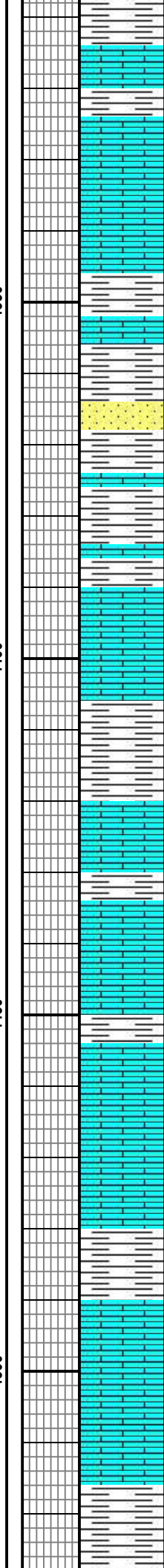
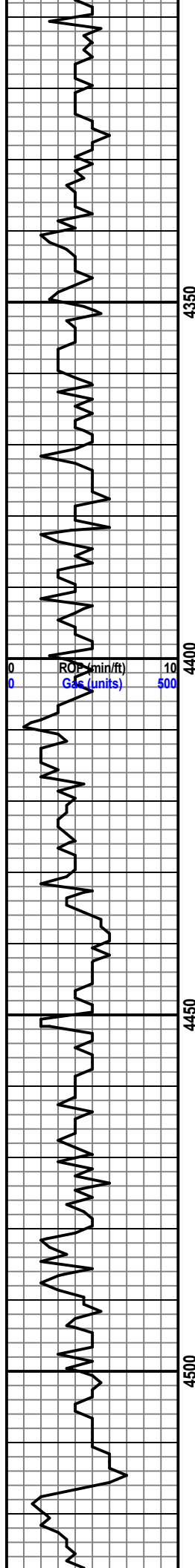
LANSING I 4452 -1228

CFS 4460

2/21/2022

mud
wt: 9.1
Vis: 58
LCM:1

MARMATON 4492 -1268



Ls cm fxdn no show

Sh red, gray

Ls wt-cm fxdn no vis por scattered blk oil stain no free oil no odor no fluor

Sh gry, red

Ls cm fxdn no show

Sh gray, red

Ss vfgm white well cemented rounded no show

Sh gry, blk, red

Sh red, gray, blk

Ls white fxdn-cxdn fair black stain pinpoint to vuggy por 1 piece with free oil no odor dull yellow fluor

Ls white fxdn-mxdn trace foss black oil stain no free oil no no fluor no odor

Sh gr, red

Ls cm fxdn foss no show

Ls cm fxdn no show

Ls cm-tan fxdn-cxdn pinpoint por trace black oil stain no free oil no odor dull yellow fluor

Ls cm fxdn no show

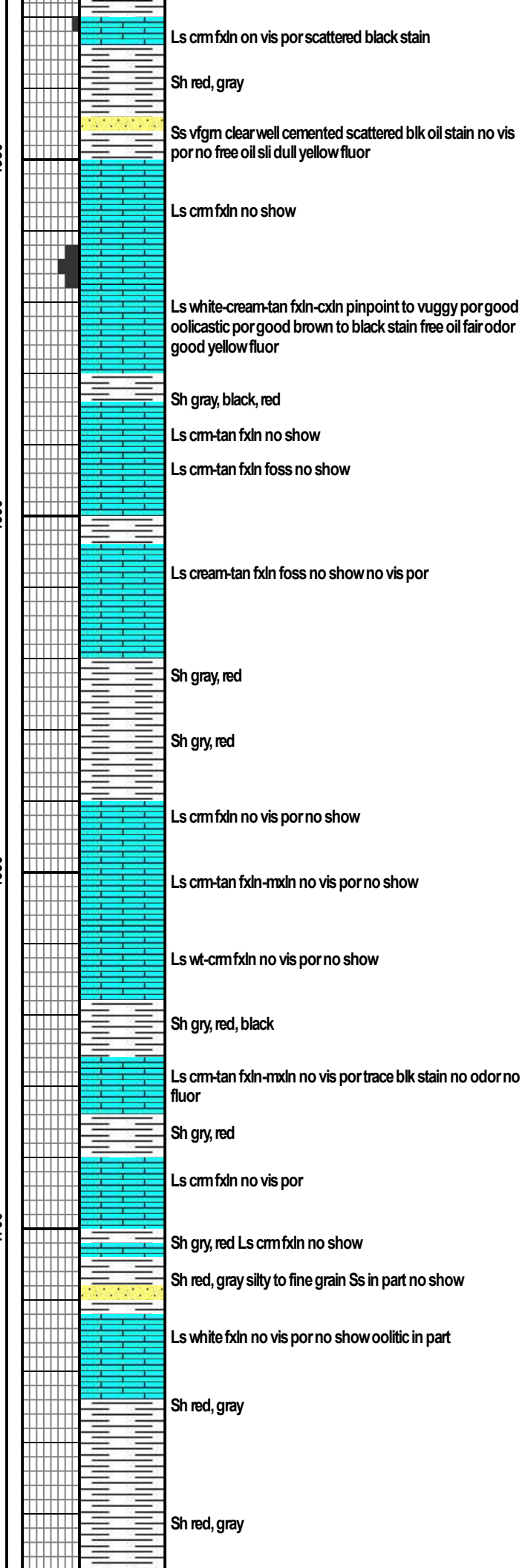
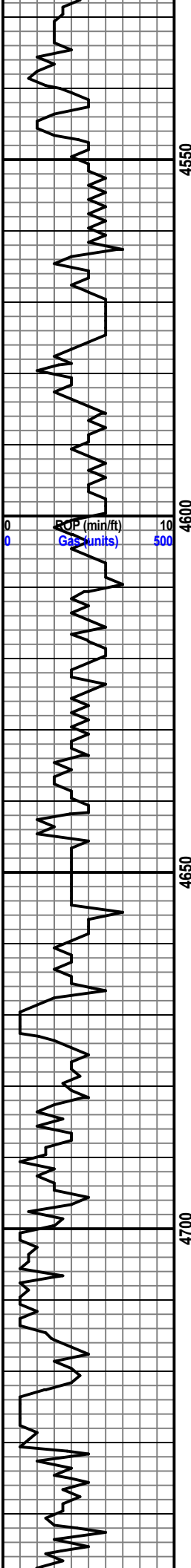
Sh gry, red, blk

Ls cm-tan fxdn-mxdn foss no show

Ls cm-tan fxdn foss no show

Sh red, gray pyrite

Sh red, gray



DST #4
 FP:19-31# - 29-44# Sl: 716-505"
 Rec; 5' CGO
 60' HMCO

FT SCOTT 4580 -1356

CFS 4600

2/22-2022

Temperature -1 Wind chill -30+ Snow

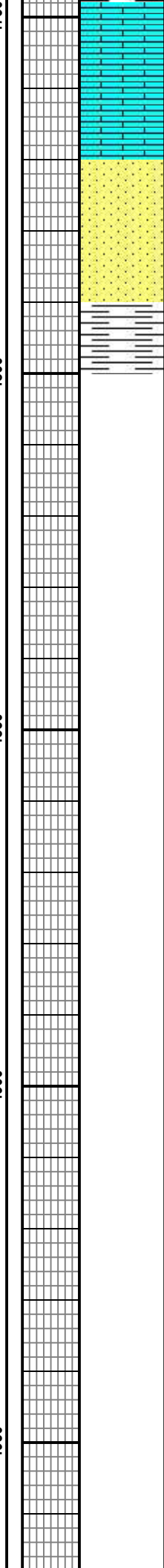
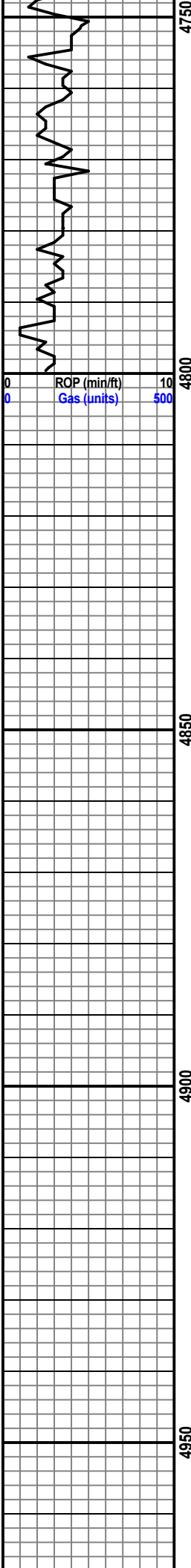
Mud
 Wt: 9.2
 Vis: 50
 Lcm: 1

OAKLEY 4663 -1439

CELIA 4673 -1449

CFS 4720

2/23/2022



Ls cm-tan fxln no vis por no show
Ls cm-tan fxln-mxin foss no vis por no show
Ss vfgm clear well cemented rounded no show
Ss vfgm-fm round-subround clear well cemented no show
Sh red, gray

RTD 4800'

LTD 4804



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Rod Anderson

Shones #3-5

5-1s-37w Cheyenne,KS

Start Date: 2022.02.18 @ 15:30:00

End Date: 2022.02.18 @ 23:25:06

Job Ticket #: 68623 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.02.24 @ 08:18:35

Murfin Drilling Co., Inc. 5-1s-37w Cheyenne,KS Shones #3-5 DST # 1 LKC "A - D" 2022.02.18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne, KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68623

DST#: 1

ATTN: Rod Anderson

Test Start: 2022.02.18 @ 15:30:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:56:36

Time Test Ended: 23:25:06

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

Interval: 4126.00 ft (KB) To 4260.00 ft (KB) (TVD)

Reference Elevations: 3224.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

3219.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 30.92 psig @ 4127.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.02.18

End Date:

2022.02.18

Last Calib.:

2022.02.18

Start Time:

15:30:01

End Time:

23:25:06

Time On Btm:

2022.02.18 @ 17:56:21

Time Off Btm:

2022.02.18 @ 21:04:21

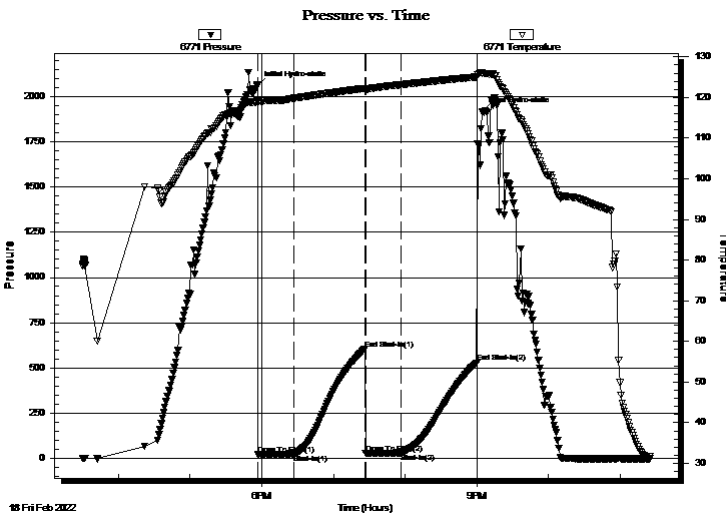
TEST COMMENT: 30 - IF: 1/2" Blow at open, died back, dead by close

60 - IS: No blow

30 - FF: No blow

60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.05	119.21	Initial Hydro-static
1	21.19	118.97	Open To Flow (1)
31	25.53	119.83	Shut-In(1)
90	606.04	122.23	End Shut-In(1)
91	27.93	122.09	Open To Flow (2)
120	30.92	123.13	Shut-In(2)
184	530.14	125.05	End Shut-In(2)
188	1917.14	125.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud w/oil spots 99%m, 1%o	0.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68623

DST#: 1

ATTN: Rod Anderson

Test Start: 2022.02.18 @ 15:30:00

Tool Information

Drill Pipe:	Length: 3982.00 ft	Diameter: 3.80 inches	Volume: 55.86 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4126.00 ft			Final 65000.00 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			4094.00	
Shut In Tool	5.00			4099.00	
Hydraulic tool	5.00			4104.00	
Jars	5.00			4109.00	
EM Tool	4.00			4113.00	
Safety Joint	3.00			4116.00	
Packer	5.00			4121.00	33.00 Bottom Of Top Packer
Packer	5.00			4126.00	
Packer - Shale	0.00			4126.00	
Stubb	1.00			4127.00	
Recorder	0.00	6771	Inside	4127.00	
Recorder	0.00	8367	Outside	4127.00	
Perforations	30.00			4157.00	
Blank Spacing	96.00			4253.00	
Perforations	4.00			4257.00	
Bullnose	3.00			4260.00	134.00 Bottom Packers & Anchor
Total Tool Length:	167.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68623

DST#: 1

ATTN: Rod Anderson

Test Start: 2022.02.18 @ 15:30:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud w /oil spots 99%m, 1%o	0.221

Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0

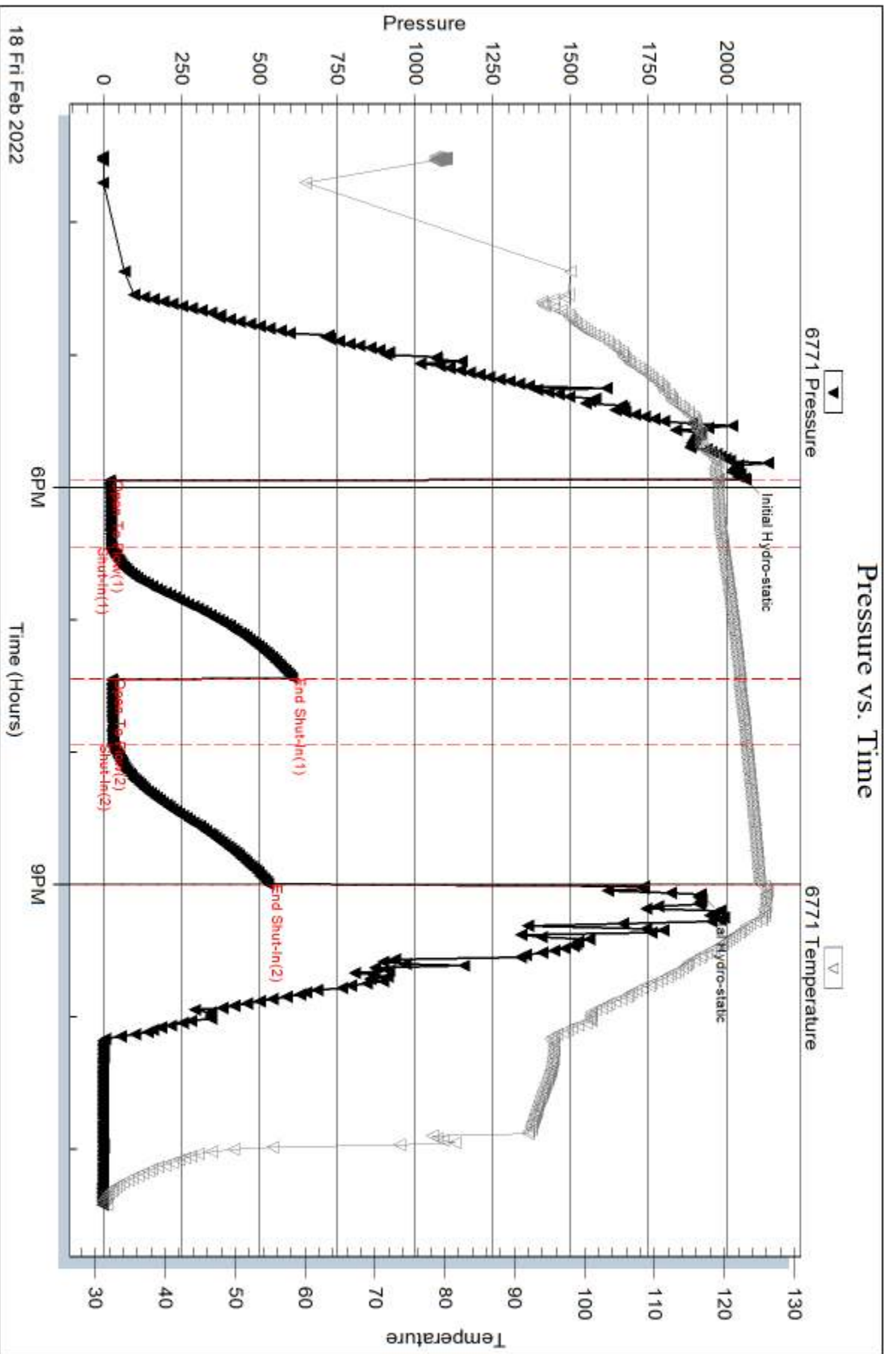
Num Gas Bombs: 0

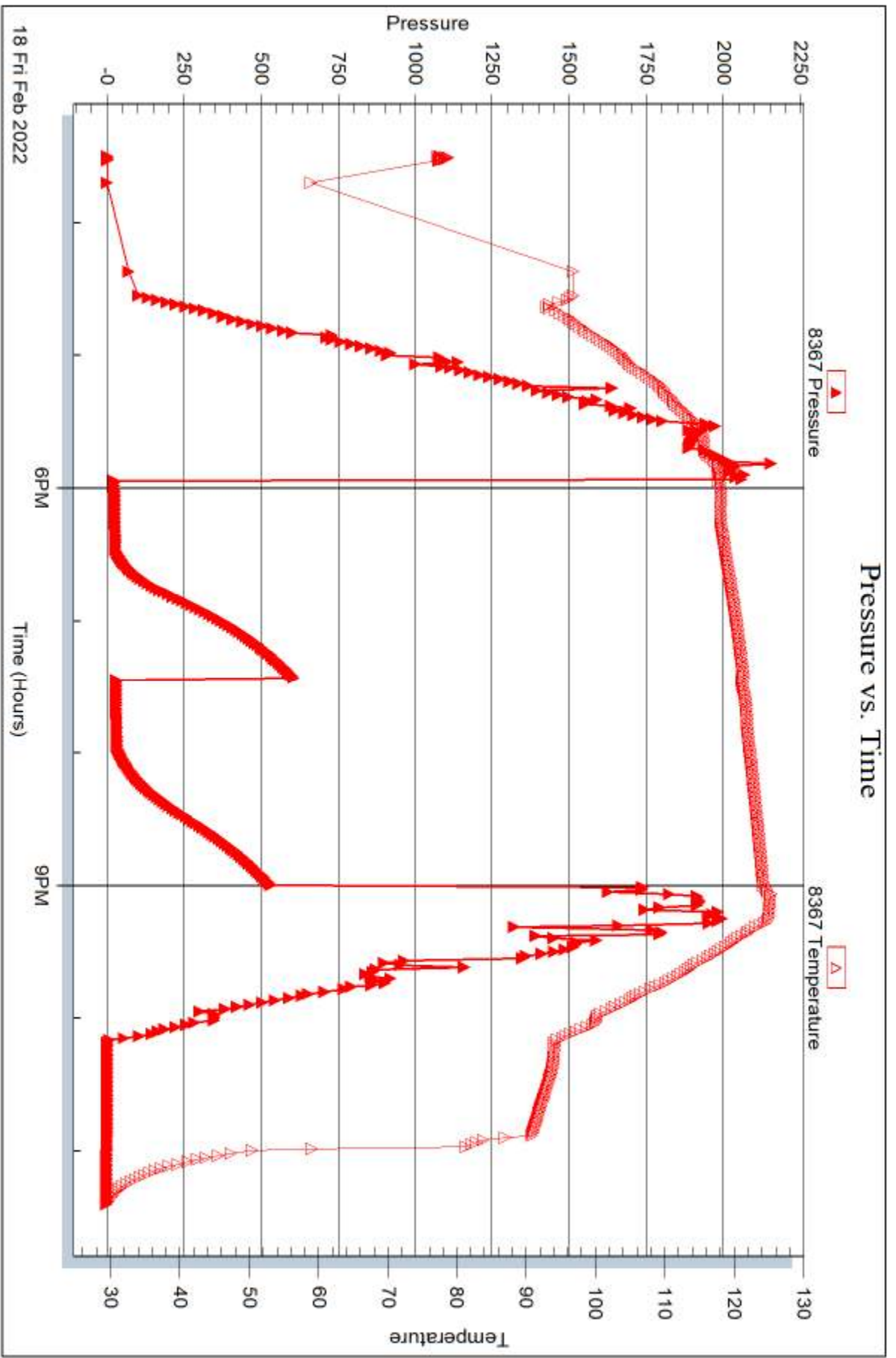
Serial #:

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: Rod Anderson

Shones #3-5

5-1s-37w Cheyenne,KS

Start Date: 2022.02.19 @ 10:57:00

End Date: 2022.02.19 @ 18:14:51

Job Ticket #: 68624 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.02.24 @ 08:10:51



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne, KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68624

DST#: 2

ATTN: Rod Anderson

Test Start: 2022.02.19 @ 10:57:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:24:06

Time Test Ended: 18:14:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4262.00 ft (KB) To 4310.00 ft (KB) (TVD)

Reference Elevations: 3224.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

3219.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 22.58 psig @ 4263.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.02.19

End Date:

2022.02.19

Last Calib.:

2022.02.19

Start Time: 10:57:01

End Time:

18:14:51

Time On Btm:

2022.02.19 @ 13:23:51

Time Off Btm:

2022.02.19 @ 16:27:36

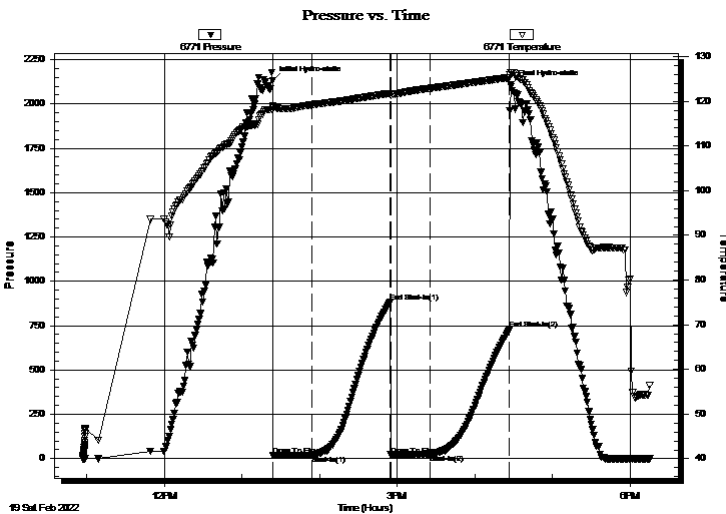
TEST COMMENT: 30 - IF: 1/8" Blow at open, slowly died back, surface blow at close

60 - IS: No blow

30 - FF: Surface blow through open

60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.03	118.96	Initial Hydro-static
1	17.93	118.52	Open To Flow (1)
31	20.51	119.24	Shut-In(1)
91	882.79	121.81	End Shut-In(1)
91	21.64	121.44	Open To Flow (2)
122	22.58	122.92	Shut-In(2)
183	728.25	125.32	End Shut-In(2)
184	2108.89	126.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOCM 93% m, 4% o, 3% g	0.07

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.

5-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68624

DST#: 2

ATTN: Rod Anderson

Test Start: 2022.02.19 @ 10:57:00

Tool Information

Drill Pipe:	Length: 4140.00 ft	Diameter: 3.80 inches	Volume: 58.07 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: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4262.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	81.00 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			4230.00	
Shut In Tool	5.00			4235.00	
Hydraulic tool	5.00			4240.00	
Jars	5.00			4245.00	
EM Tool	4.00			4249.00	
Safety Joint	3.00			4252.00	
Packer	5.00			4257.00	33.00 Bottom Of Top Packer
Packer	5.00			4262.00	
Packer - Shale	0.00			4262.00	
Stubb	1.00			4263.00	
Recorder	0.00	6771	Inside	4263.00	
Recorder	0.00	8367	Outside	4263.00	
Perforations	10.00			4273.00	
Blank Spacing	33.00			4306.00	
Perforations	1.00			4307.00	
Bullnose	3.00			4310.00	48.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68624

DST#: 2

ATTN: Rod Anderson

Test Start: 2022.02.19 @ 10:57:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 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
15.00	VSOCM 93% _m , 4% _o , 3% _g	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

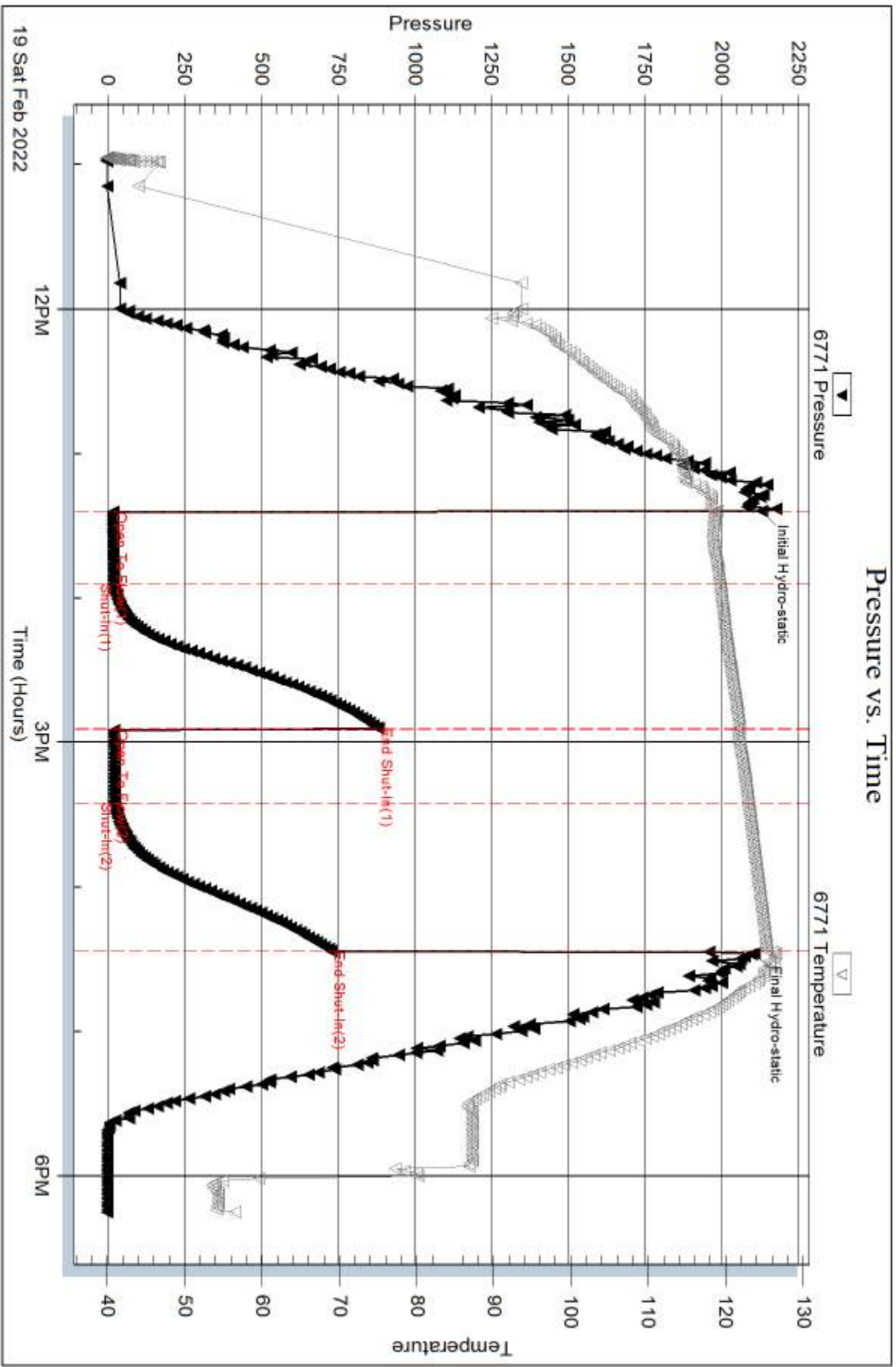
Num Gas Bombs: 0

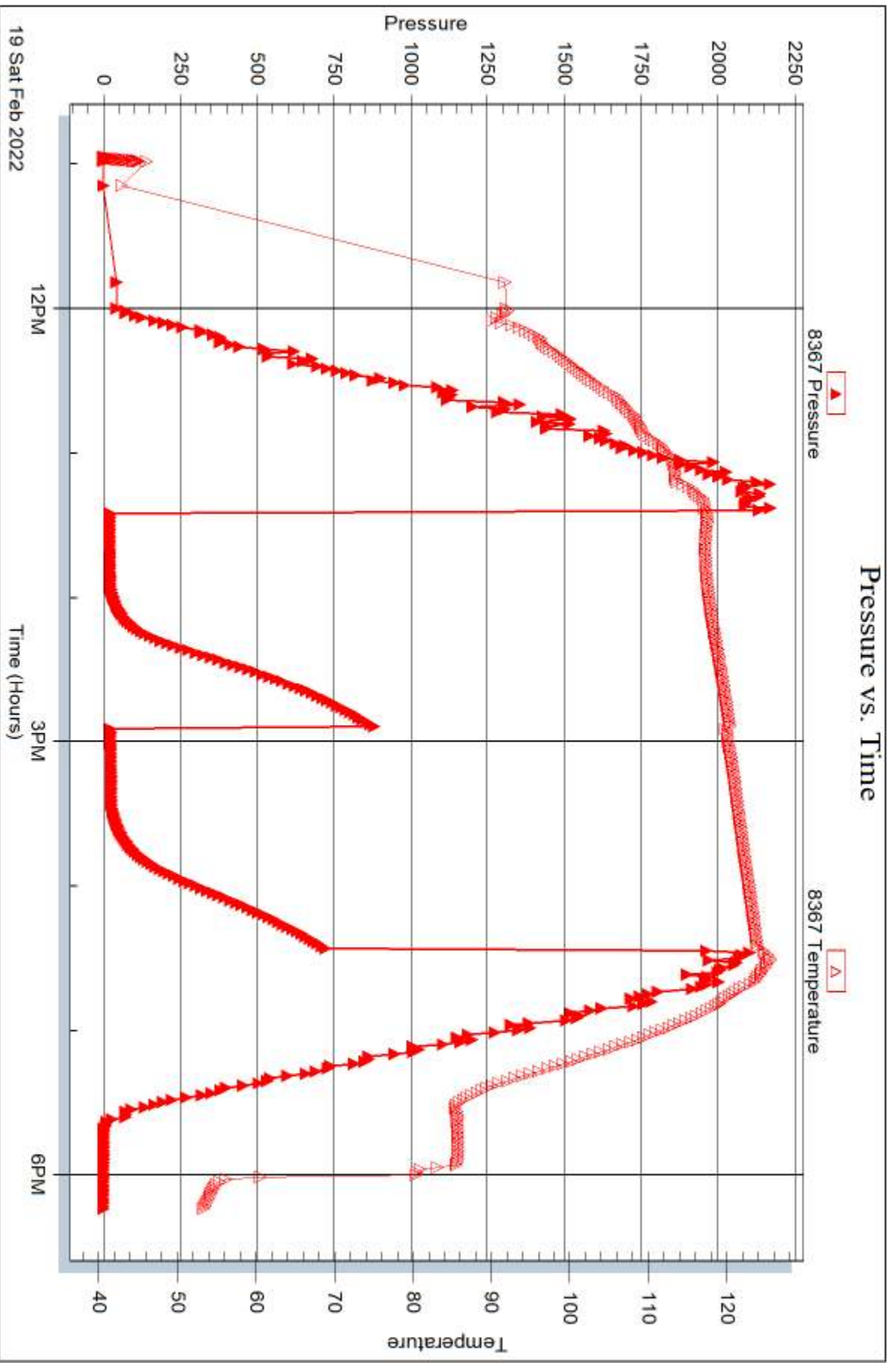
Serial #:

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: Rod Anderson

Shones #3-5

5-1s-37w Cheyenne,KS

Start Date: 2022.02.20 @ 10:18:00

End Date: 2022.02.20 @ 17:25:06

Job Ticket #: 68625 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.02.24 @ 08:09:42



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne, KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68625

DST#: 3

ATTN: Rod Anderson

Test Start: 2022.02.20 @ 10:18:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:26:51

Time Test Ended: 17:25:06

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4325.00 ft (KB) To 4410.00 ft (KB) (TVD)

Reference Elevations: 3224.00 ft (KB)

Total Depth: 4410.00 ft (KB) (TVD)

3219.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771

Inside

Press@RunDepth: 22.19 psig @ 4326.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.02.20

End Date:

2022.02.20

Last Calib.:

2022.02.20

Start Time: 10:18:01

End Time:

17:25:06

Time On Btm:

2022.02.20 @ 12:26:36

Time Off Btm:

2022.02.20 @ 15:28:36

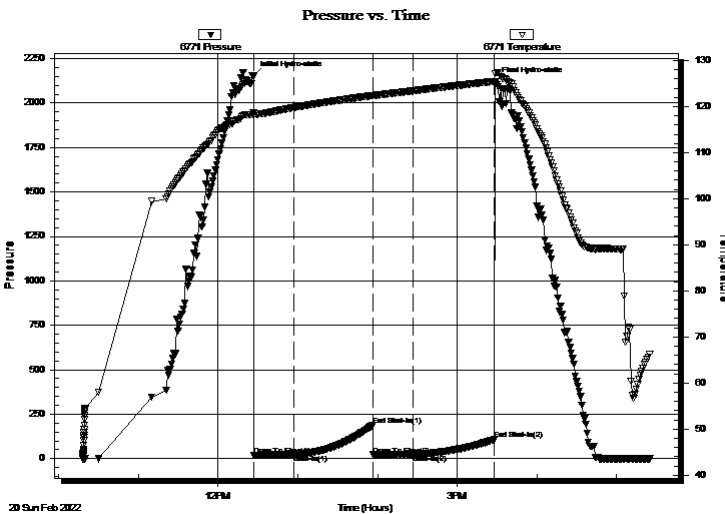
TEST COMMENT: 30 - IF: 1/4" Blow at open, built to 1/2"

60 - IS: No blow

30 - FF: No blow

60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2151.73	118.74	Initial Hydro-static
1	19.08	118.50	Open To Flow (1)
31	21.19	119.75	Shut-In(1)
90	186.14	122.39	End Shut-In(1)
90	20.91	122.35	Open To Flow (2)
120	22.19	123.39	Shut-In(2)
182	106.47	125.45	End Shut-In(2)
182	2122.37	127.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w /trace oil 100%o	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68625

DST#: 3

ATTN: Rod Anderson

Test Start: 2022.02.20 @ 10:18:00

Tool Information

Drill Pipe:	Length: 4203.00 ft	Diameter: 3.80 inches	Volume: 58.96 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 59.55 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4325.00 ft			Final	65000.00 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			4293.00	
Shut In Tool	5.00			4298.00	
Hydraulic tool	5.00			4303.00	
Jars	5.00			4308.00	
EM Tool	4.00			4312.00	
Safety Joint	3.00			4315.00	
Packer	5.00			4320.00	33.00 Bottom Of Top Packer
Packer	5.00			4325.00	
Packer - Shale	0.00			4325.00	
Stubb	1.00			4326.00	
Recorder	0.00	6771	Inside	4326.00	
Recorder	0.00	8367	Outside	4326.00	
Perforations	15.00			4341.00	
Blank Spacing	65.00			4406.00	
Perforations	1.00			4407.00	
Bullnose	3.00			4410.00	85.00 Bottom Packers & Anchor
Total Tool Length:	118.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68625

DST#: 3

ATTN: Rod Anderson

Test Start: 2022.02.20 @ 10:18:00

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: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud w /trace oil 100%o	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

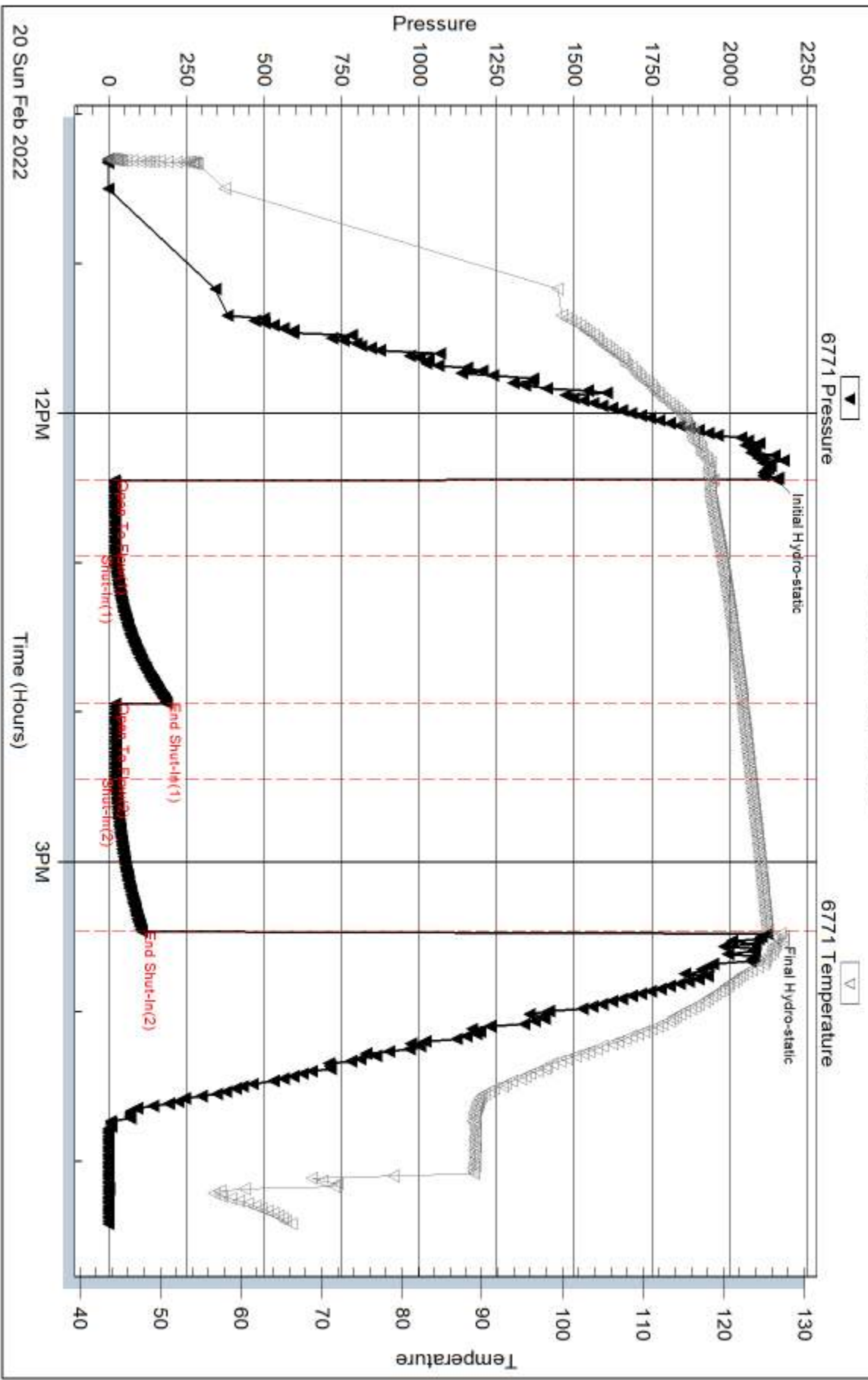
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

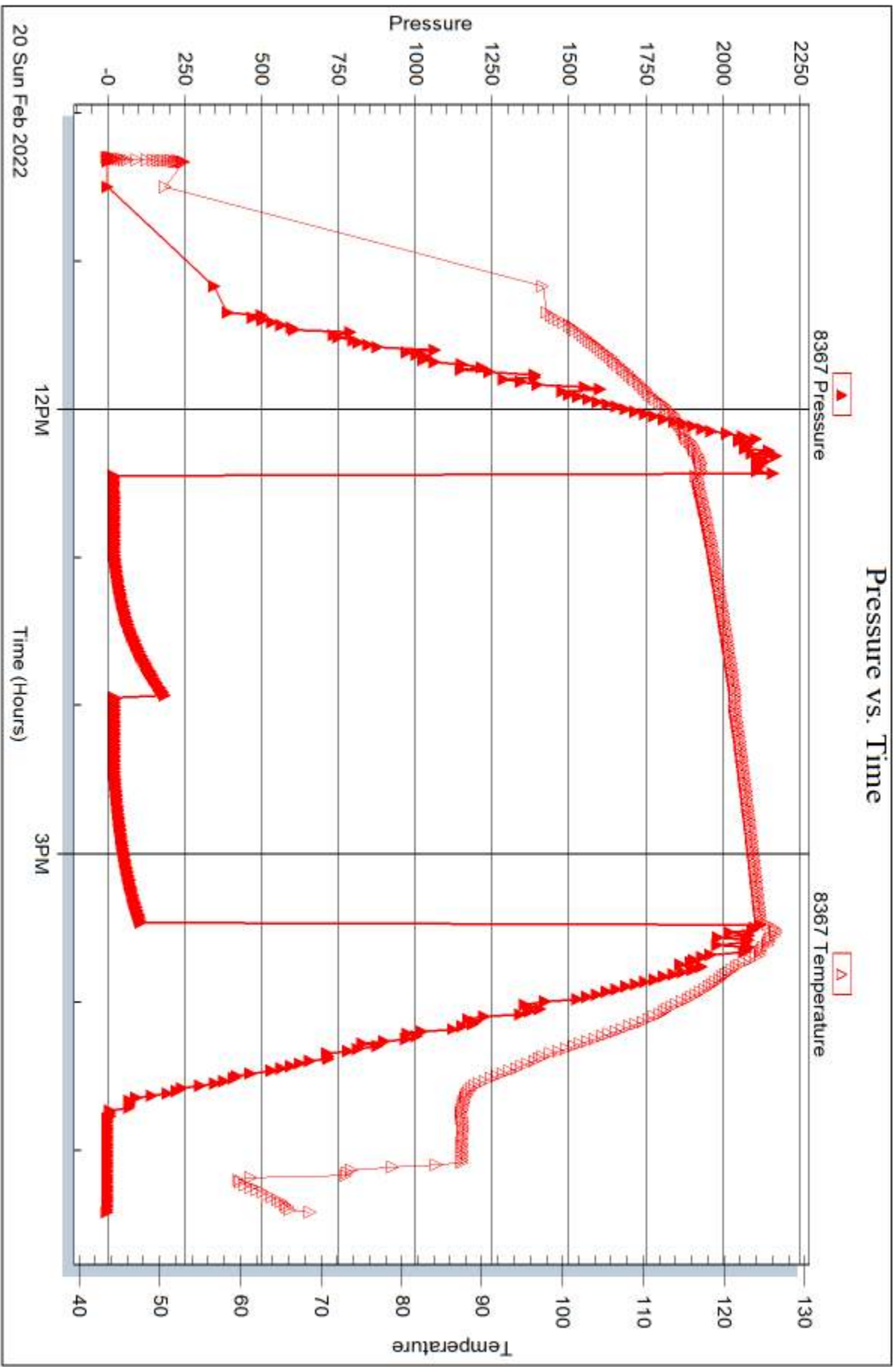


Serial #: 8367

Outside Marfin Drilling Co., Inc.

Shones #3-5

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68625

Printed: 2022.02.24 @ 08:09:44



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Rod Anderson

Shones #3-5

5-1s-37w Cheyenne,KS

Start Date: 2022.02.21 @ 17:15:00

End Date: 2022.02.22 @ 04:24:20

Job Ticket #: 68576 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.02.24 @ 08:09:00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne, KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68576

DST#: 4

ATTN: Rod Anderson

Test Start: 2022.02.21 @ 17:15:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:59:51

Time Test Ended: 04:24:20

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4560.00 ft (KB) To 4600.00 ft (KB) (TVD)

Reference Elevations: 3224.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

3219.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: 43.74 psig @ 4561.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.02.21

End Date: 2022.02.22

Last Calib.: 2022.02.22

Start Time: 17:15:01

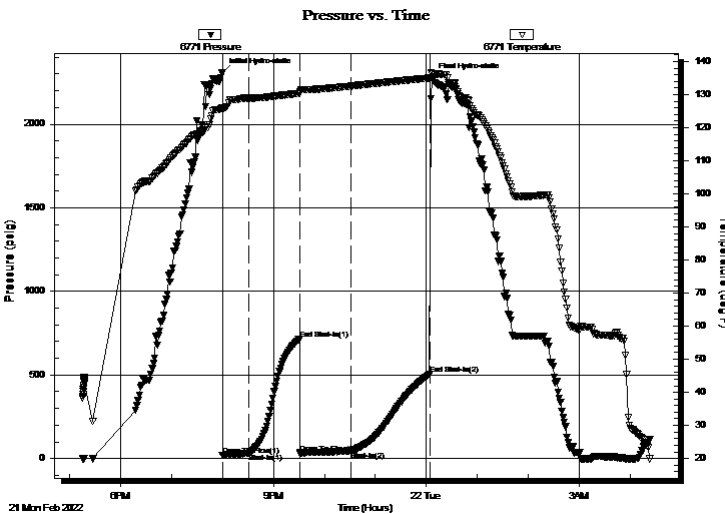
End Time: 04:24:20

Time On Btm: 2022.02.21 @ 19:59:36

Time Off Btm: 2022.02.22 @ 00:06:21

TEST COMMENT: 30 - IF: 1/2" Blow at open, built to 3 1/2" (Diesel in bucket)
60 - IS: No blow back
60 - FF: 3/4" Blow at open, built to 3 1/4", died back 3"
90 - FS: Weak surface blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2309.50	126.14	Initial Hydro-static
1	18.73	125.64	Open To Flow (1)
31	31.46	128.96	Shut-In(1)
91	716.41	130.39	End Shut-In(1)
92	29.33	130.86	Open To Flow (2)
152	43.74	132.59	Shut-In(2)
245	505.38	135.01	End Shut-In(2)
247	2275.47	136.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	CGO 92%o, 8%g	0.02
60.00	HMCO 60%o, 40%m	0.30
0.00	GIP = 55'+	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68576

DST#: 4

ATTN: Rod Anderson

Test Start: 2022.02.21 @ 17:15:00

Tool Information

Drill Pipe:	Length: 4423.00 ft	Diameter: 3.80 inches	Volume: 62.04 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 62.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4560.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	73.00 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			4528.00	
Shut In Tool	5.00			4533.00	
Hydraulic tool	5.00			4538.00	
Jars	5.00			4543.00	
EM Tool	4.00			4547.00	
Safety Joint	3.00			4550.00	
Packer	5.00			4555.00	33.00 Bottom Of Top Packer
Packer	5.00			4560.00	
Packer - Shale	0.00			4560.00	
Stubb	1.00			4561.00	
Recorder	0.00	6771	Inside	4561.00	
Recorder	0.00	8367	Outside	4561.00	
Perforations	36.00			4597.00	
Bullnose	3.00			4600.00	40.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

5-1s-37w Cheyenne,KS

250 N. Water STE 300
Wichita, KS 67202

Shones #3-5

Job Ticket: 68576

DST#: 4

ATTN: Rod Anderson

Test Start: 2022.02.21 @ 17:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 6.77 in³
Resistivity: ohm.m
Salinity: 1200.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 35.8 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	CGO 92%o, 8%g	0.025
60.00	HMCO 60%o, 40%m	0.295
0.00	GIP = 55'+	0.000

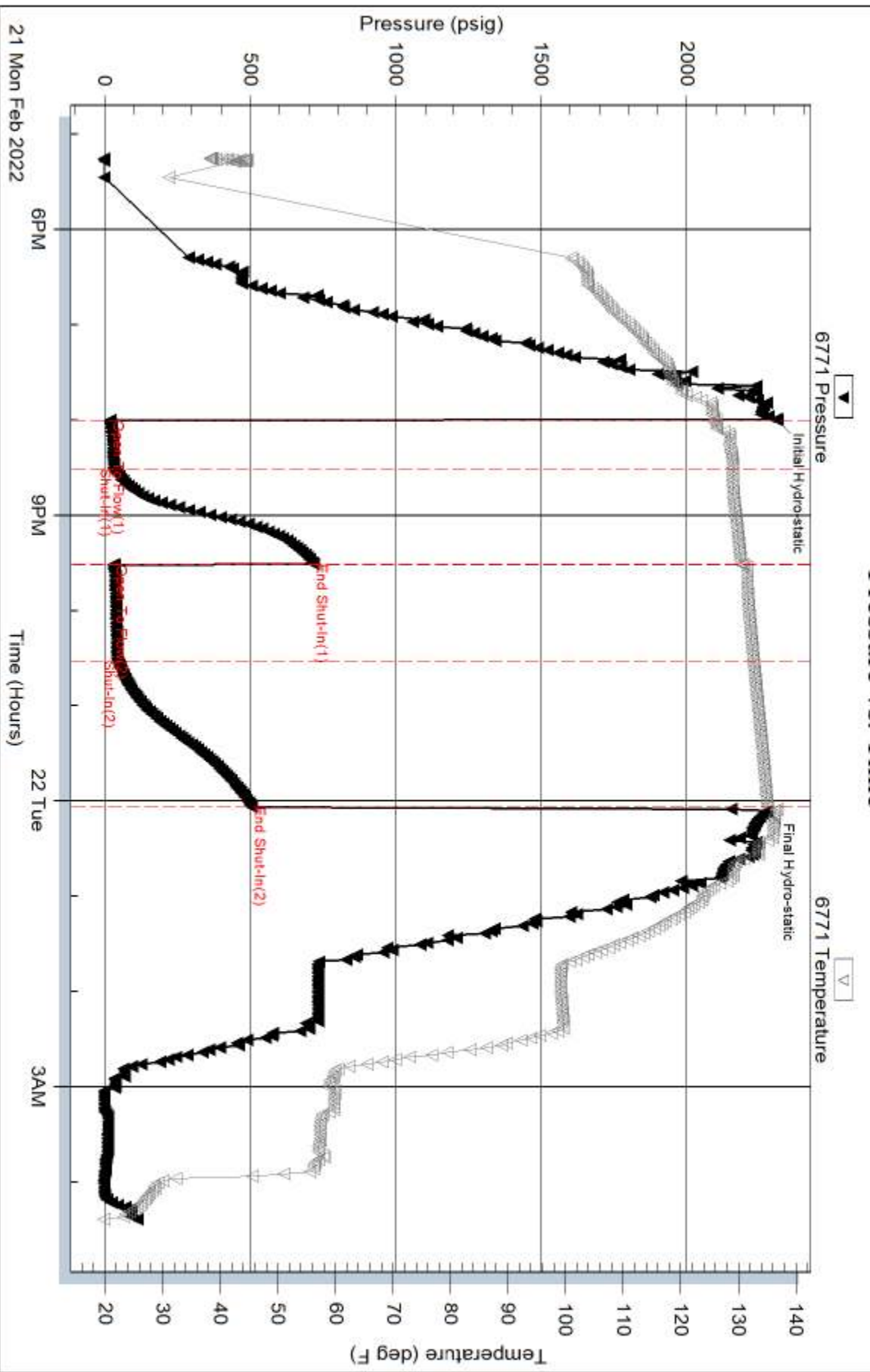
Total Length: 65.00 ft Total Volume: 0.320 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 32.6 api @ 28 deg F Corrected Gravity = 35.8 api

Pressure vs. Time

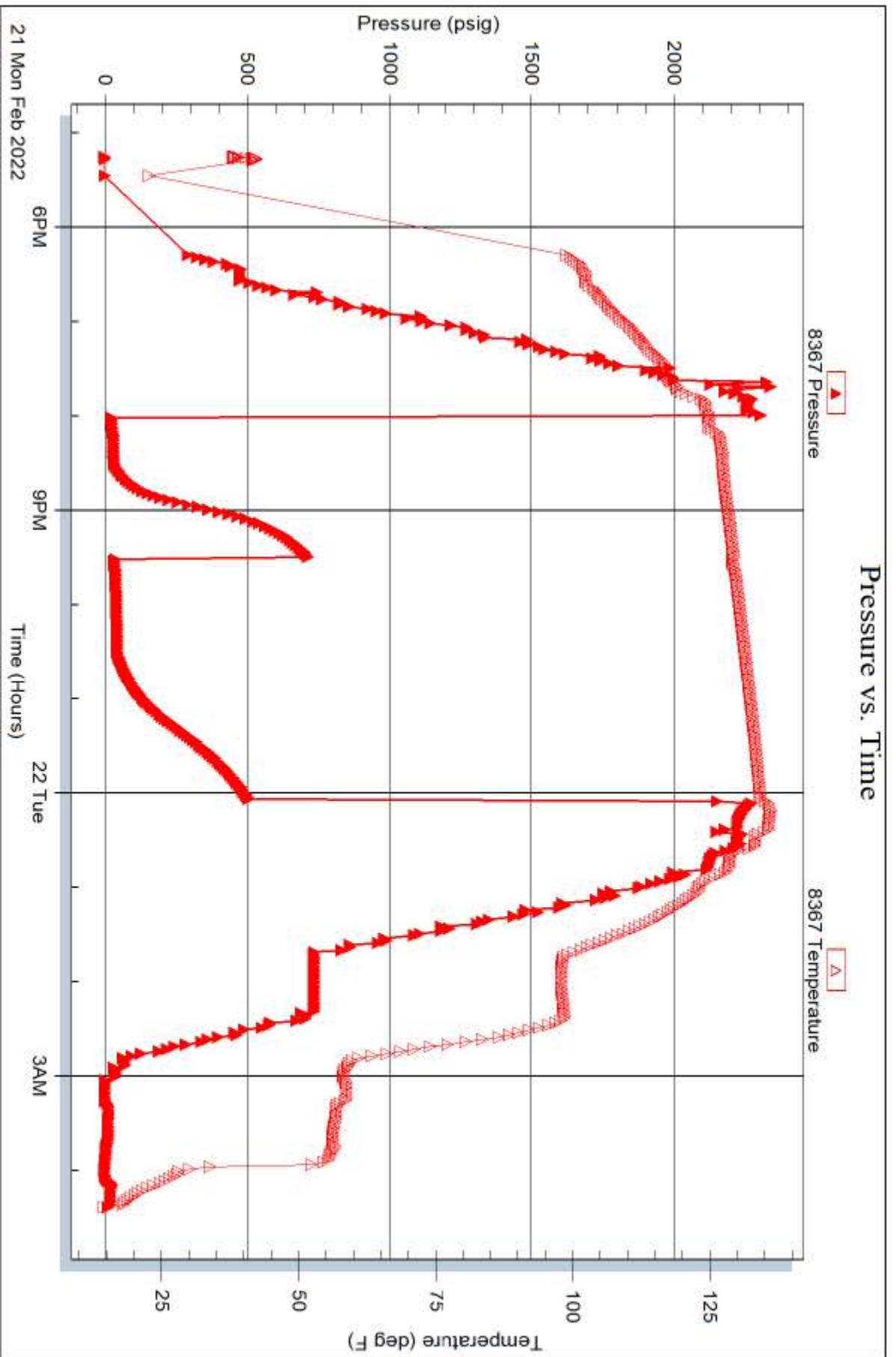


Serial #: 8367

Outside Marfin Drilling Co., Inc.

Shones #3-5

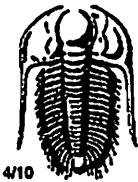
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 68576

Printed: 2022.02.24 @ 08:09:00



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68623

Well Name & No. Shones # 3-5 Test No. 1 Date 2-18-22
 Company Murfin Drilling Co. Inc Elevation 3224 KB 3219 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Rod Anderson Rig Murfin #110
 Location: Sec. 5 Twp 1s Rge. 37w Co. Cheyenne State KS

Interval Tested 4126-4260 Zone Tested Lans "A-D"
 Anchor Length 134 Drill Pipe Run 3982 Mud Wt. 8.9
 Top Packer Depth 4121 Drill Collars Run 119 Vls 60
 Bottom Packer Depth 4126 (Shale) Wt. Pipe Run - WL 6.8
 Total Depth 4260 Chlorides 1100 ppm System LCM 2

Blow Description IF: 1/2" Blow at open, died back, dead by close
ISI: No blow
FF: No blow
FSI: No blow

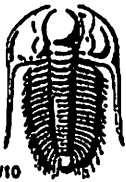
Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>mud w/oil spots</u>	<u>1</u>		<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 125 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2062 Test 1450 T-On Location 14:20
 (B) First Initial Flow 21 Jars 250 T-Started 15:30
 (C) First Final Flow 26 Safety Joint 75 T-Open 17:56
 (D) Initial Shut-In 606 Circ Sub _____ T-Pulled 21:00
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 23:20
 (F) Second Final Flow 31 Mileage 150RT 187.50 Comments _____
 (G) Final Shut-In 530 Sampler _____
 (H) Final Hydrostatic 1917 Straddle _____ EM Tool 350

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 30 Extra Copies _____
 Final Shut-In 60 Extra Recorder _____ Sub Total 350
 Day Standby _____ Total 2562.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2212.50

Approved By Rod Anderson Our Representative James Winder
 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. 68624

Well Name & No. Shones #3-5 Test No. 2 Date 2-19-22
 Company Murfin Drilling Co. Inc Elevation 3224 KB 3219 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Rod Anderson Rig Murfin #110
 Location: Sec. 5 Twp 1s Rge. 37w Co. Cheyenne State KS

Interval Tested 4262-4310 Zone Tested Lans "5"
 Anchor Length 48 Drill Pipe Run 4140 Mud Wt. 9.1
 Top Packer Depth 4257 Drill Collars Run 119 Vis 56
 Bottom Packer Depth 4262 (shale) Wt. Pipe Run - WL 7.2
 Total Depth 4310 Chlorides 1200 ppm System LCM 1

Blow Description IF: 1/8" Blow at open, slowly died back, surface blow at close
ISI: No blow
FF: Surface blow through open
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>USOCM</u>	<u>3</u>	<u>4</u>	<u>-</u>	<u>93</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 15 BHT 125 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2132
- (B) First Initial Flow 18
- (C) First Final Flow 21
- (D) Initial Shut-In 883
- (E) Second Initial Flow 22
- (F) Second Final Flow 23
- (G) Final Shut-In 728
- (H) Final Hydrostatic 2109

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

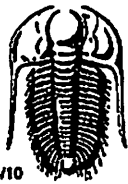
- Test 1450
- Jars 250
- Safety Joint 75
- Circ Sub _____
- Hourly Standby _____
- Mileage 150 RT 187.50
- Sampler _____
- Straddle _____
- Shale Packer 250
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 2212.50

T-On Location 10:20
 T-Started 10:57
 T-Open 13:24
 T-Pulled 16:26
 T-Out 18:10

Comments _____
 EM Tool 350
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 350
 Total 2562.50
 MP/DST Disc't _____

Approved By Rod Anderson Our Representative James Winters

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. 68625

Well Name & No. Stones #3-5 Test No. 3 Date 2-20-22
 Company Murfin Drilling Co. Inc Elevation 3224 KB 3219 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Rod Anderson Rig Murfin #110
 Location: Sec. 5 Twp 1s Rge. 37w Co. Cheyenne State KS

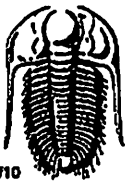
Interval Tested 4325 - 4410 Zone Tested Lans. "H-J"
 Anchor Length 85 Drill Pipe Run 4203 Mud Wt. 9.1
 Top Packer Depth 4320 Drill Collars Run 119 Vls 76
 Bottom Packer Depth 4325 (shale) Wt. Pipe Run - WL 6.4
 Total Depth 4410 Chlorides 1400 ppm System LCM 1
 Blow Description IF: 1/4" Blow at open, built to 1/2"
ISI: No blow
FF: NO blow
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud w/trace oil</u>	<u>trace</u>	<u>0</u>	<u>100</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 126 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2152</u>	<input checked="" type="checkbox"/> Test 1450	T-On Location <u>9:45</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>10:18</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>12:26</u>
(D) Initial Shut-In <u>186</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>15:27</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:20</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>150RT</u> 187.50	Comments _____
(G) Final Shut-In <u>106</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2122</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool 350
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer 250	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility	Total <u>2562.50</u>
	Sub Total <u>2212.50</u>	MP/DST Disc't _____

Approved By _____ Our Representative James Winder
 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. 68576

Well Name & No. Shones #3-5 Test No. 4 Date 2-21-22
 Company Murfin Drilling Co. Inc Elevation 3224 KB 3219 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Rod Anderson Rig Murfin #110
 Location: Sec. 5 Twp 1s Rge. 37w Co. Cheyenne State KS

Interval Tested 4560-4600 Zone Tested Ft Scott
 Anchor Length 40 Drill Pipe Run 4423 Mud Wt. 9.1
 Top Packer Depth 4555 Drill Collars Run 119 Vis 58
 Bottom Packer Depth 4560 (shale) Wt. Pipe Run - WL 6.8
 Total Depth 4600 Chlorides 1200 ppm System LCM 1
 Blow Description IF: 1/2" Blow at open, built to 3 1/2" (diesel in bucket)
ISI: No blowback
FF: 3/4" Blow at open, built to 3 1/4", died back to 3"
FSI: Weak surface blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>C50</u>	<u>8</u>	<u>92</u>		
<u>60</u>	<u>HMCO</u>	<u>-</u>	<u>60</u>		<u>40</u>
	<u>GIP=55'+</u>				

Rec Total 65 BHT 135 Gravity 35.8 API RW @ °F Chlorides ppm

- (A) Initial Hydrostatic 2310
- (B) First Initial Flow 19
- (C) First Final Flow 31
- (D) Initial Shut-In 716
- (E) Second Initial Flow 29
- (F) Second Final Flow 44
- (G) Final Shut-In 505
- (H) Final Hydrostatic 2275

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

- Test 1450
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 150 RT X 2 375
- Sampler
- Straddle
- Shale Packer 250
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2400

T-On Location 16:50
 T-Started 17:15
 T-Open 19:59
 T-Pulled 00:04
 T-Out 4:20

Comments _____
 EM Tool 350
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 350
 Total 2750
 MP/DST Disc't: _____

Approved By _____ Our Representative James Wicks

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.