

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	WEBER 1-10
Doc ID	1650285

All Electric Logs Run

BHCS
BHV
DIL
DUCP
MEL



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N Water STE 300
Wichita, KS 67202

ATTN: Wes Hansen

Weber #1-10

10-1s-32w Rawlins, KS

Start Date: 2022.05.02 @ 04:59:00

End Date: 2022.05.02 @ 14:52:30

Job Ticket #: 68173 DST #: 1

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

Printed: 2022.05.05 @ 16:51:36



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68173

DST#: 1

ATTN: Wes Hansen

Test Start: 2022.05.02 @ 04:59:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:39:15

Time Test Ended: 14:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3804.00 ft (KB) To 3850.00 ft (KB) (TVD)

Reference Elevations: 2931.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

2926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press@RunDepth: 128.59 psig @ 3805.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.02

End Date:

2022.05.02

Last Calib.:

2022.05.02

Start Time:

04:59:05

End Time:

14:52:30

Time On Btm:

2022.05.02 @ 08:39:00

Time Off Btm:

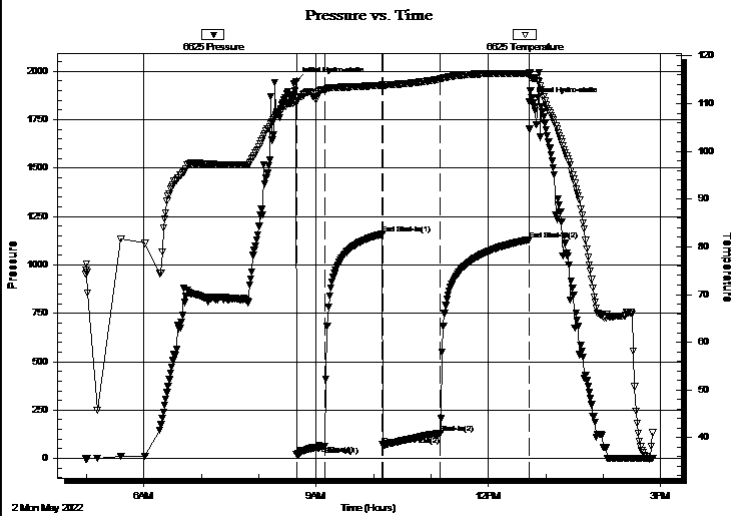
2022.05.02 @ 12:43:00

TEST COMMENT: IF-30- Built to 4 1/4"

SI1-60- No return

FF-60- Built to 5"

SI2-90- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.16	110.47	Initial Hydro-static
1	20.97	110.29	Open To Flow (1)
31	65.23	112.89	Shut-In(1)
90	1159.50	113.85	End Shut-In(1)
91	70.06	113.51	Open To Flow (2)
151	128.59	115.12	Shut-In(2)
244	1130.42	116.37	End Shut-In(2)
244	1844.03	116.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
117.00	MCW 5% mud 95% w ater	0.58
143.00	MW 45% mud 55% w ater	0.92

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68173

DST#: 1

ATTN: Wes Hansen

Test Start: 2022.05.02 @ 04:59:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:39:15

Time Test Ended: 14:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3804.00 ft (KB) To 3850.00 ft (KB) (TVD)

Reference Elevations: 2931.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

2926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: psig @ 3805.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.02

End Date:

2022.05.02

Last Calib.:

1899.12.30

Start Time: 04:59:05

End Time:

14:52:30

Time On Btm:

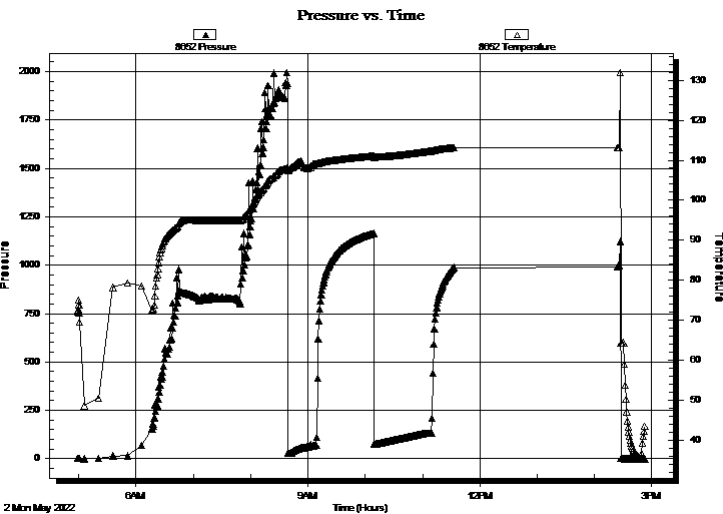
Time Off Btm:

TEST COMMENT: IF-30- Built to 4 1/4"

SI1-60- No return

FF-60- Built to 5"

SI2-90- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
117.00	MCW 5% mud 95% w ater	0.58
143.00	MW 45% mud 55% w ater	0.92

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68173

DST#: 1

ATTN: Wes Hansen

Test Start: 2022.05.02 @ 04:59:00

Tool Information

Drill Pipe:	Length: 3549.00 ft	Diameter: 3.80 inches	Volume: 49.78 bbl	Tool Weight: 2900.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 50.94 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3804.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	77.00 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			3774.00	
shut In Tool	5.00			3779.00	
hydraulic tool	5.00			3784.00	
Jars	5.00			3789.00	
EM Tool	3.00			3792.00	
Safety Joint	3.00			3795.00	
Packer	5.00			3800.00	31.00 Bottom Of Top Packer
Packer	4.00			3804.00	
Stubb	1.00			3805.00	
Recorder	0.00	6625	Inside	3805.00	
Recorder	0.00	8652	Outside	3805.00	
perforations	5.00			3810.00	
change Over Sub	1.00			3811.00	
drill Pipe	32.00			3843.00	
change Over Sub	1.00			3844.00	
perforations	3.00			3847.00	
Bullnose	3.00			3850.00	46.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68173

DST#: 1

ATTN: Wes Hansen

Test Start: 2022.05.02 @ 04:59:00

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:

95000 ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.58 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 bbf
117.00	MCW 5% mud 95% w ater	0.575
143.00	MW 45% mud 55% w ater	0.922

Total Length: 260.00 ft

Total Volume: 1.497 bbl

Num Fluid Samples: 0

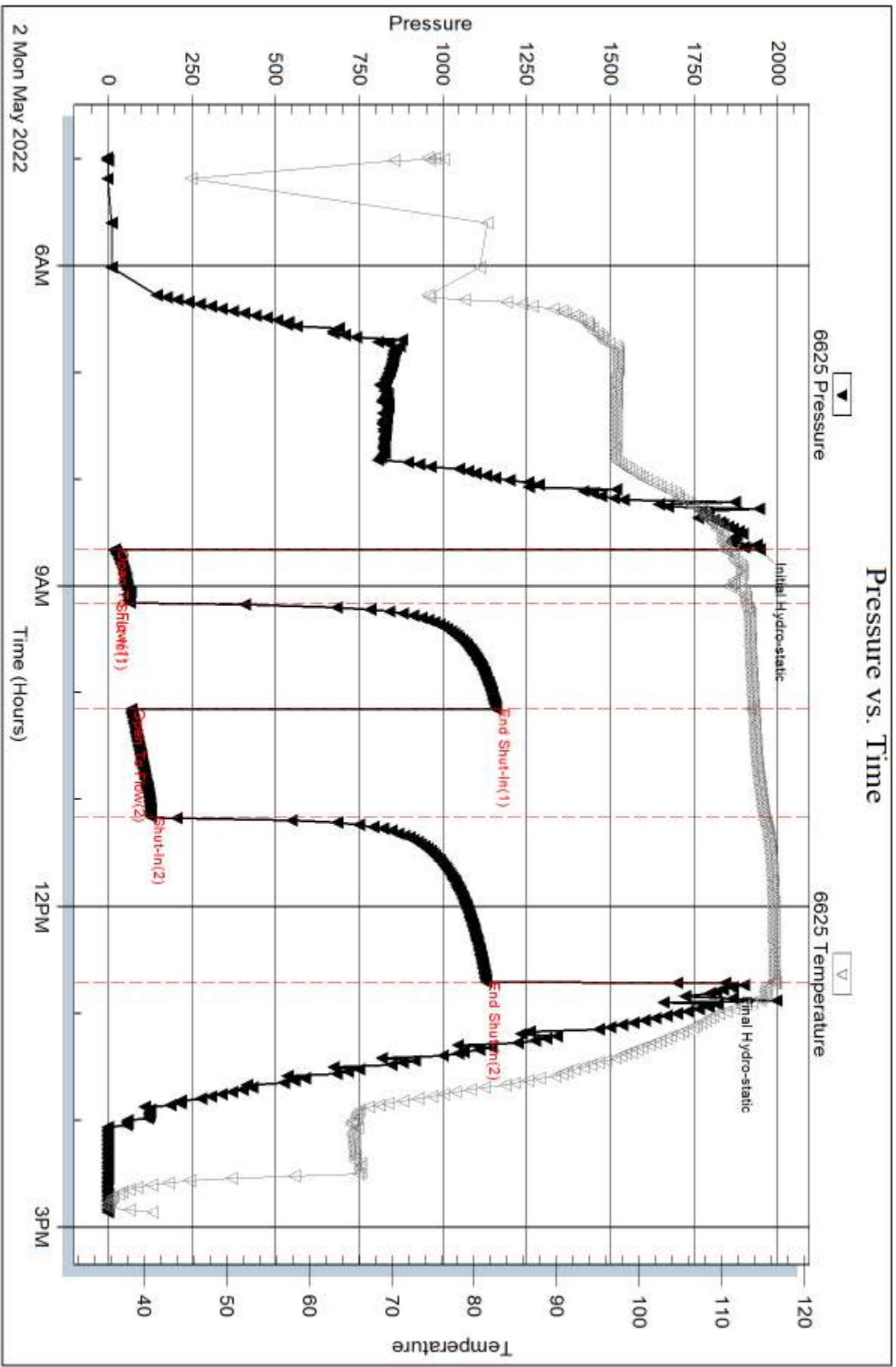
Num Gas Bombs: 0

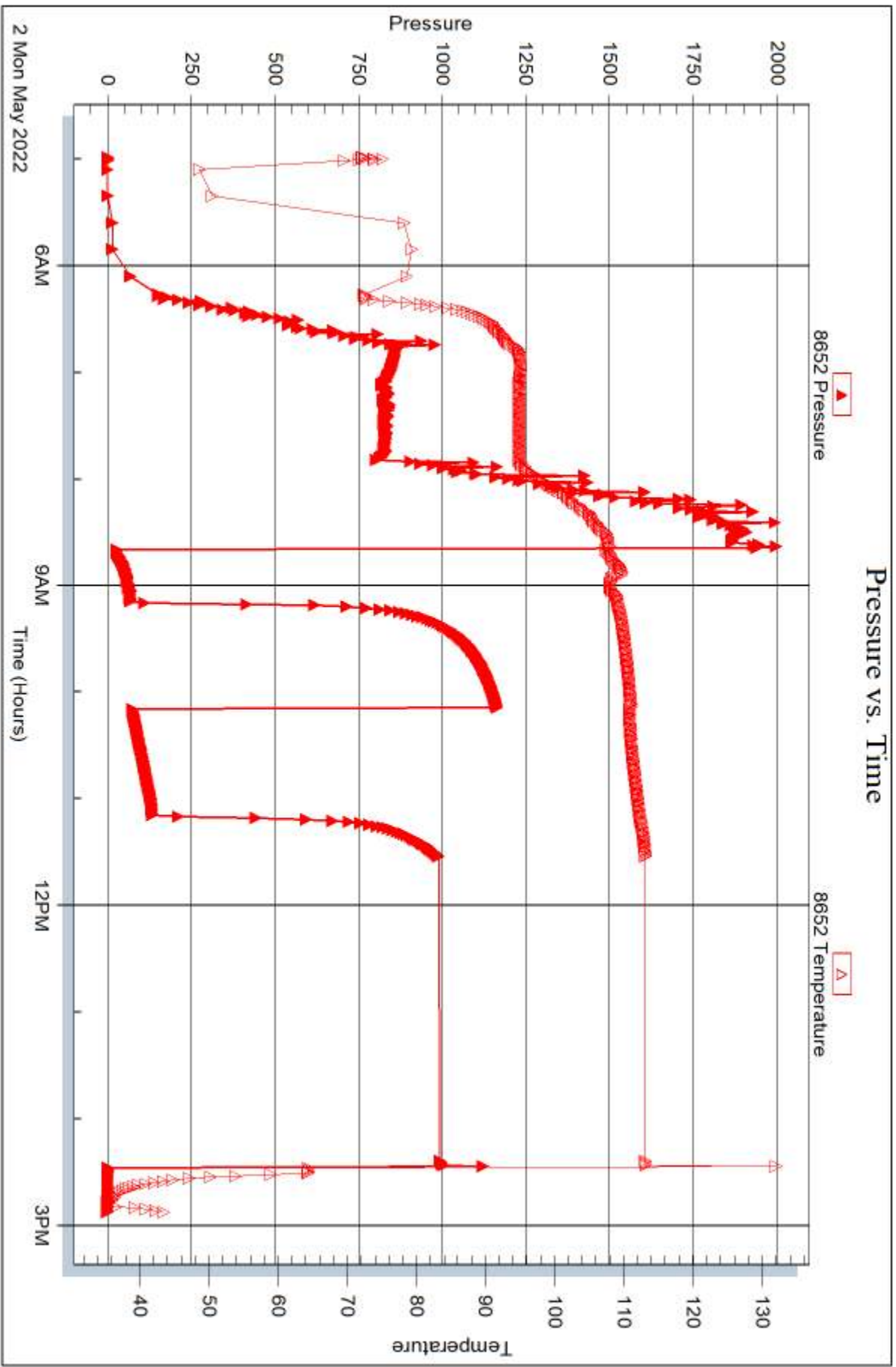
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 4# LCM







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N Water STE 300
Wichita, KS 67202

ATTN: Wes Hansen

Weber #1-10

10-1s-32w Rawlins, KS

Start Date: 2022.05.03 @ 16:31:00

End Date: 2022.05.03 @ 23:36:45

Job Ticket #: 68174 DST #: 2

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

Printed: 2022.05.05 @ 16:51:09

Murfin Drilling Company Inc.
10-1s-32w Rawlins, KS
Weber #1-10
DST # 2
LKC D
2022.05.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68174

DST#: 2

ATTN: Wes Hansen

Test Start: 2022.05.03 @ 16:31:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:27:00

Time Test Ended: 23:36:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3886.00 ft (KB) To 3940.00 ft (KB) (TVD)

Reference Elevations: 2931.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

2926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press@RunDepth: 21.34 psig @ 3887.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.03

End Date:

2022.05.03

Last Calib.: 2022.05.03

Start Time: 16:31:05

End Time:

23:36:44

Time On Btm: 2022.05.03 @ 18:26:45

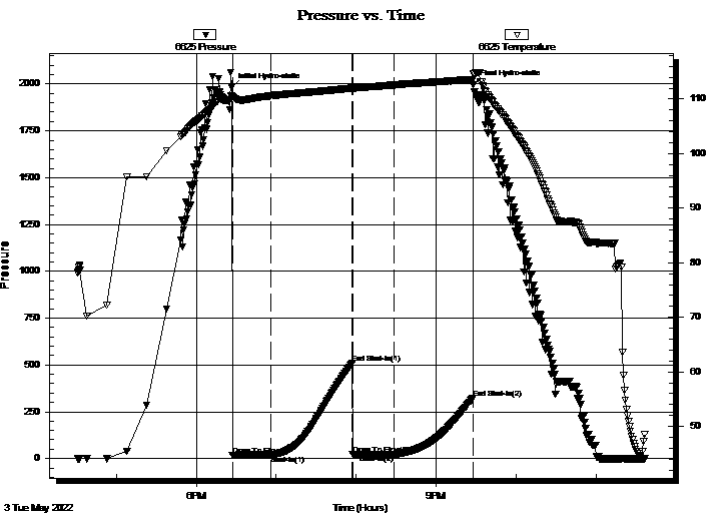
Time Off Btm: 2022.05.03 @ 21:28:00

TEST COMMENT: IF-30- Weak surface blow

SI1-60- No return

FF-30- No blow

SI2-60- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.12	110.69	Initial Hydro-static
1	19.04	110.42	Open To Flow (1)
30	19.69	110.61	Shut-In(1)
91	509.28	111.99	End Shut-In(1)
91	21.16	111.96	Open To Flow (2)
122	21.34	112.58	Shut-In(2)
181	321.15	113.61	End Shut-In(2)
182	1998.55	114.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68174

DST#: 2

ATTN: Wes Hansen

Test Start: 2022.05.03 @ 16:31:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:27:00

Time Test Ended: 23:36:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3886.00 ft (KB) To 3940.00 ft (KB) (TVD)

Reference Elevations: 2931.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

2926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8167 Outside

Press@RunDepth: psig @ 3887.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.03

End Date:

2022.05.03

Last Calib.:

2022.05.03

Start Time: 16:31:05

End Time:

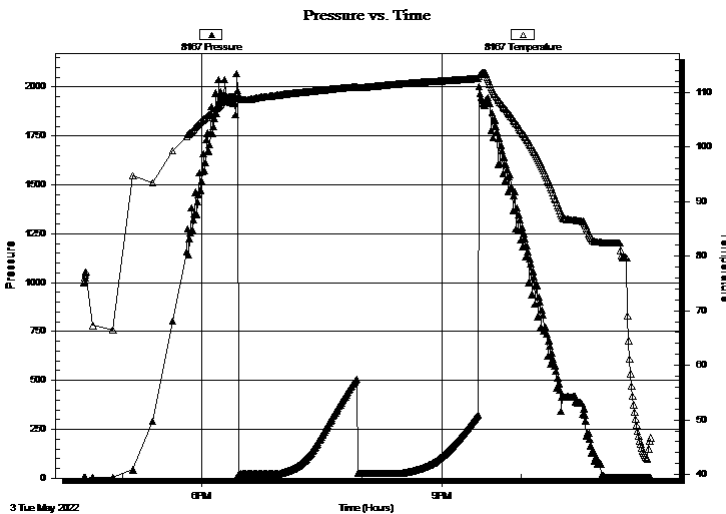
23:36:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30- Weak surface blow
SI1-60- No return
FF-30- No blow
SI2-60- No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%	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.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68174

DST#: 2

ATTN: Wes Hansen

Test Start: 2022.05.03 @ 16:31:00

Tool Information

Drill Pipe:	Length: 3645.00 ft	Diameter: 3.80 inches	Volume: 51.13 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	84000.00 lb
			<u>Total Volume: 52.29 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	3886.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	85.00 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			3856.00	
shut In Tool	5.00			3861.00	
hydraulic tool	5.00			3866.00	
Jars	5.00			3871.00	
EM Tool	3.00			3874.00	
Safety Joint	3.00			3877.00	
Packer	5.00			3882.00	31.00 Bottom Of Top Packer
Packer	4.00			3886.00	
Stubb	1.00			3887.00	
Recorder	0.00	6625	Inside	3887.00	
Recorder	0.00	8167	Outside	3887.00	
perforations	13.00			3900.00	
change Over Sub	1.00			3901.00	
drill Pipe	32.00			3933.00	
change Over Sub	1.00			3934.00	
perforations	3.00			3937.00	
Bullnose	3.00			3940.00	54.00 Bottom Packers & Anchor
Total Tool Length:	85.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68174

DST#: 2

ATTN: Wes Hansen

Test Start: 2022.05.03 @ 16:31:00

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: 5.99 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
5.00	mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

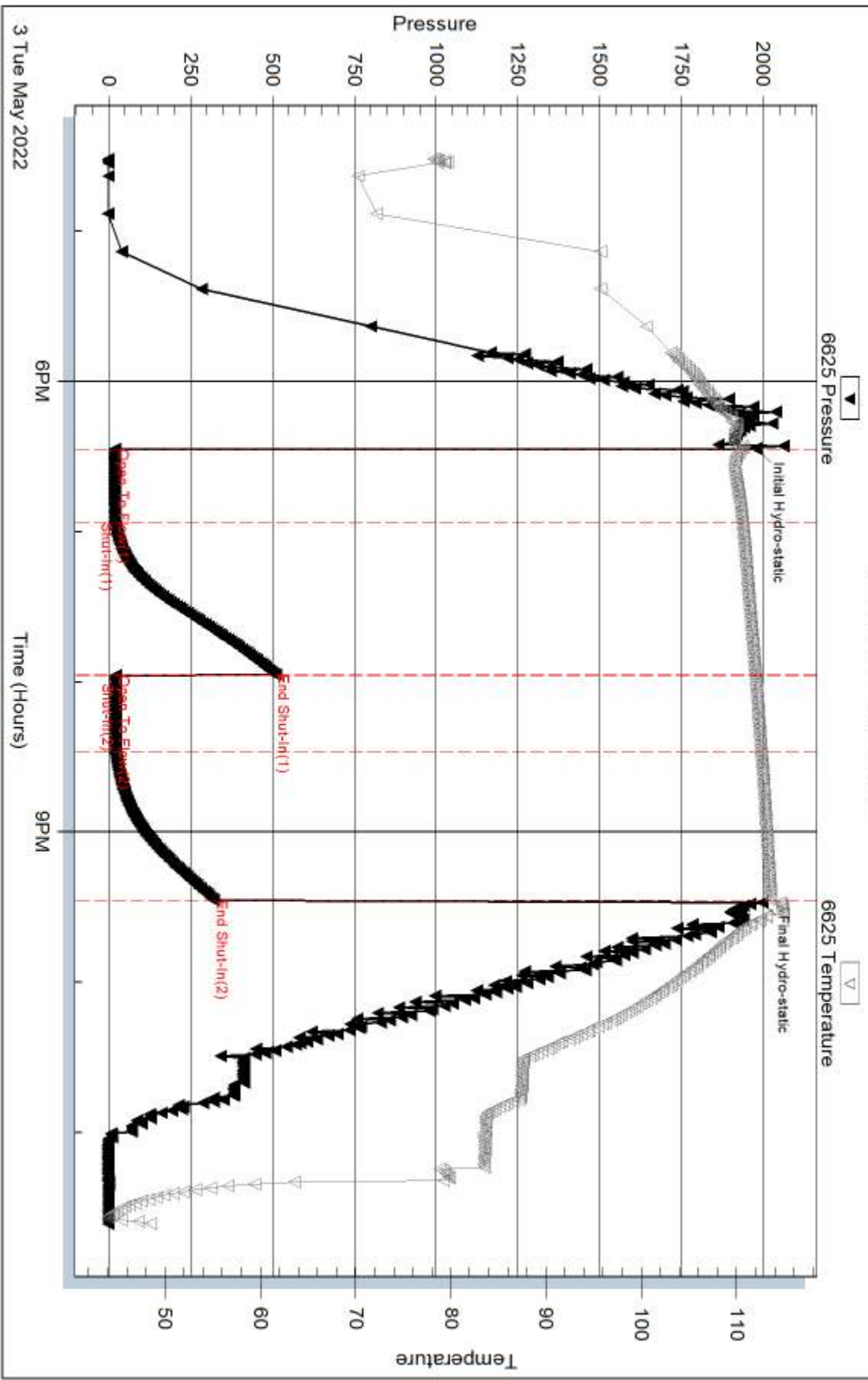
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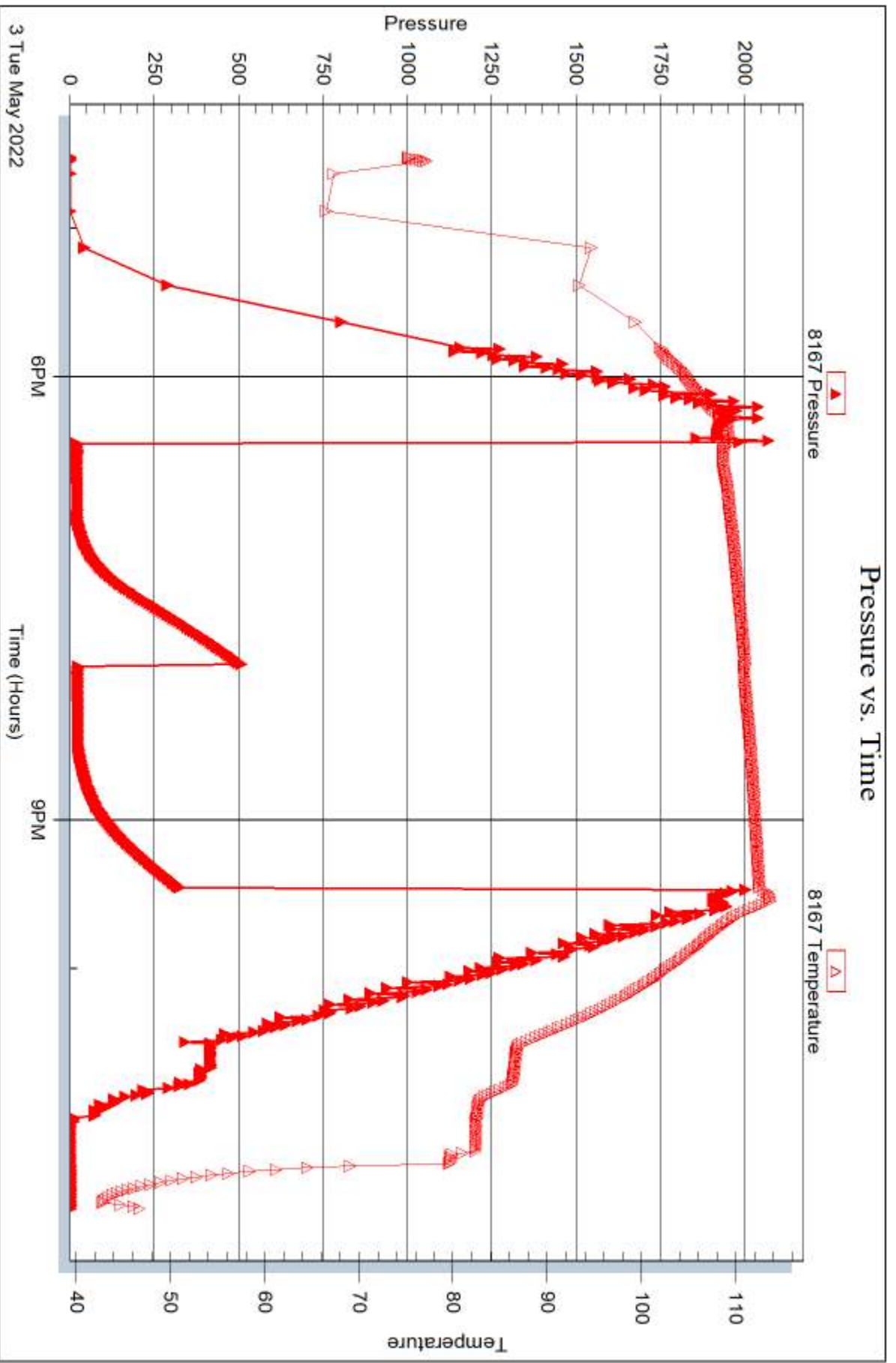
Laboratory Name:

Laboratory Location:

Recovery Comments: 4# LCM

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N Water STE 300
Wichita, KS 67202

ATTN: Wes Hansen

Weber #1-10

10-1s-32w Rawlins, KS

Start Date: 2022.05.04 @ 18:16:00

End Date: 2022.05.05 @ 01:47:00

Job Ticket #: 68175 DST #: 3

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

Printed: 2022.05.05 @ 15:26:37

Murfin Drilling Company Inc.
10-1s-32w Rawlins, KS
Weber #1-10
DST # 3
LKC H - J
2022.05.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68175

DST#: 3

ATTN: Wes Hansen

Test Start: 2022.05.04 @ 18:16:00

GENERAL INFORMATION:

Formation: **LKC H - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:03:15

Time Test Ended: 01:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3980.00 ft (KB) To 4080.00 ft (KB) (TVD)

Reference Elevations: 2931.00 ft (KB)

Total Depth: 4080.00 ft (KB) (TVD)

2926.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 444.92 psig @ 3981.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.05.04

End Date:

2022.05.05

Last Calib.:

2022.05.05

Start Time:

18:16:05

End Time:

01:46:59

Time On Btm:

2022.05.04 @ 20:03:00

Time Off Btm:

2022.05.04 @ 23:04:15

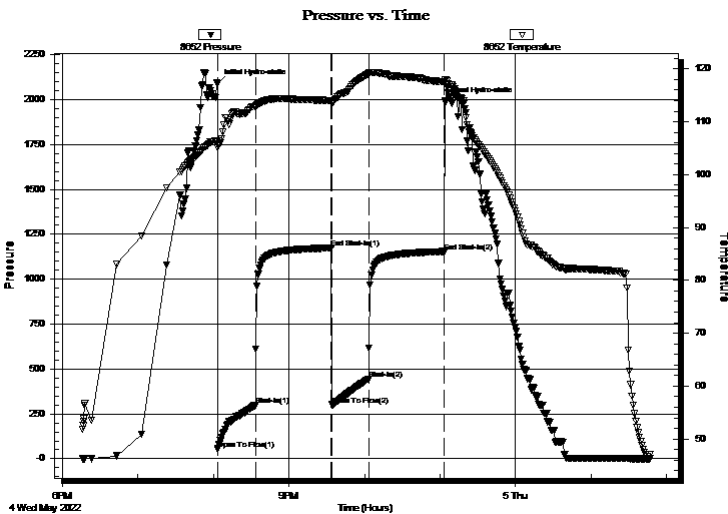
TEST COMMENT: IF-30- BOB 7 min 15 sec, Built to 43 1/4"

SI1-60- No return

FF-30- BOB in 9 1/2 min, built to 38 1/2"

SI2-60- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2091.94	106.45	Initial Hydro-static
1	51.28	105.08	Open To Flow (1)
31	298.31	112.83	Shut-In(1)
91	1174.38	113.98	End Shut-In(1)
91	300.55	113.68	Open To Flow (2)
121	444.92	119.07	Shut-In(2)
181	1154.39	117.60	End Shut-In(2)
182	1987.31	117.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
425.00	MCW 10% mud 90% w ater	3.81
127.00	MW 50% mud 50% w ater	1.78
316.00	WCM 10% w ater 90% mud	4.43
84.00	mud 100%	1.18

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Murfin Drilling Company Inc.
 250 N Water STE 300
 Wichita, KS 67202
 ATTN: Wes Hansen

10-1s-32w Rawlins, KS

Weber #1-10

Job Ticket: 68175

DST#: 3

Test Start: 2022.05.04 @ 18:16:00

GENERAL INFORMATION:

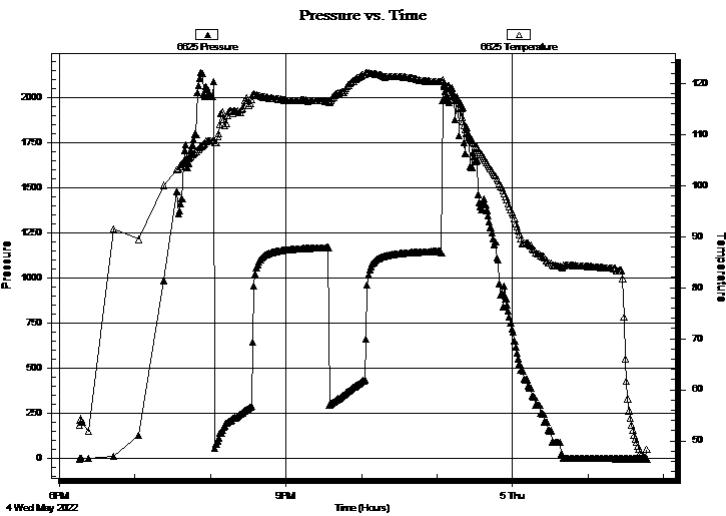
Formation: LKC H - J	Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 20:03:15	Time Test Ended: 01:47:00		Tester: Dustin Day
			Unit No: 70
Interval: 3980.00 ft (KB) To 4080.00 ft (KB) (TVD)			Reference Elevations: 2931.00 ft (KB)
Total Depth: 4080.00 ft (KB) (TVD)			2926.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition:		KB to GR/CF: 5.00 ft

Serial #: 6625

Inside

Press@RunDepth: psig @ 3981.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2022.05.04	End Date: 2022.05.05
Start Time: 18:16:05	End Time: 01:46:59
	Last Calib.: 2022.05.05
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF-30- BOB 7 min 15 sec, Built to 43 1/4"
 SI1-60- No return
 FF-30- BOB in 9 1/2 min, built to 38 1/2"
 SI2-60- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
425.00	MCW 10% mud 90% w ater	3.81
127.00	MW 50% mud 50% w ater	1.78
316.00	WCM 10% w ater 90% mud	4.43
84.00	mud 100%	1.18

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.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68175

DST#: 3

ATTN: Wes Hansen

Test Start: 2022.05.04 @ 18:16:00

Tool Information

Drill Pipe:	Length: 3740.00 ft	Diameter: 3.80 inches	Volume: 52.46 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 53.62 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	3980.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	131.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3950.00	
shut In Tool	5.00			3955.00	
hydraulic tool	5.00			3960.00	
Jars	5.00			3965.00	
EM Tool	3.00			3968.00	
Safety Joint	3.00			3971.00	
Packer	5.00			3976.00	31.00 Bottom Of Top Packer
Packer	4.00			3980.00	
Stubb	1.00			3981.00	
Recorder	0.00	6625	Inside	3981.00	
Recorder	0.00	8652	Outside	3981.00	
perforations	28.00			4009.00	
change Over Sub	1.00			4010.00	
drill Pipe	63.00			4073.00	
change Over Sub	1.00			4074.00	
perforations	3.00			4077.00	
Bullnose	3.00			4080.00	100.00 Bottom Packers & Anchor
Total Tool Length:	131.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

10-1s-32w Rawlins, KS

250 N Water STE 300
Wichita, KS 67202

Weber #1-10

Job Ticket: 68175

DST#: 3

ATTN: Wes Hansen

Test Start: 2022.05.04 @ 18:16:00

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:

75000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
425.00	MCW 10% mud 90% w ater	3.812
127.00	MW 50% mud 50% w ater	1.781
316.00	WCM 10% w ater 90% mud	4.433
84.00	mud 100%	1.178

Total Length: 952.00 ft

Total Volume: 11.204 bbl

Num Fluid Samples: 0

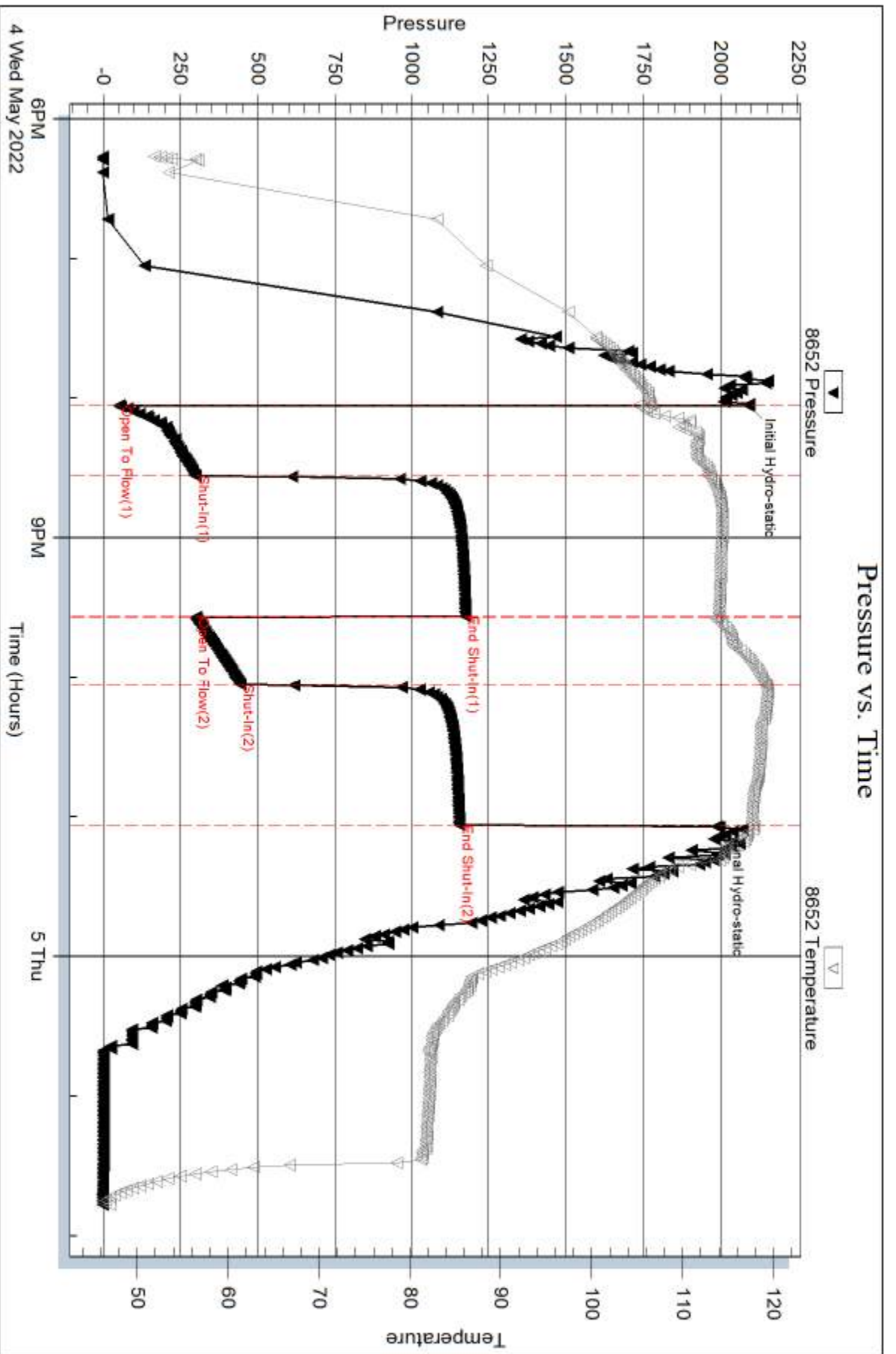
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 4# LCM



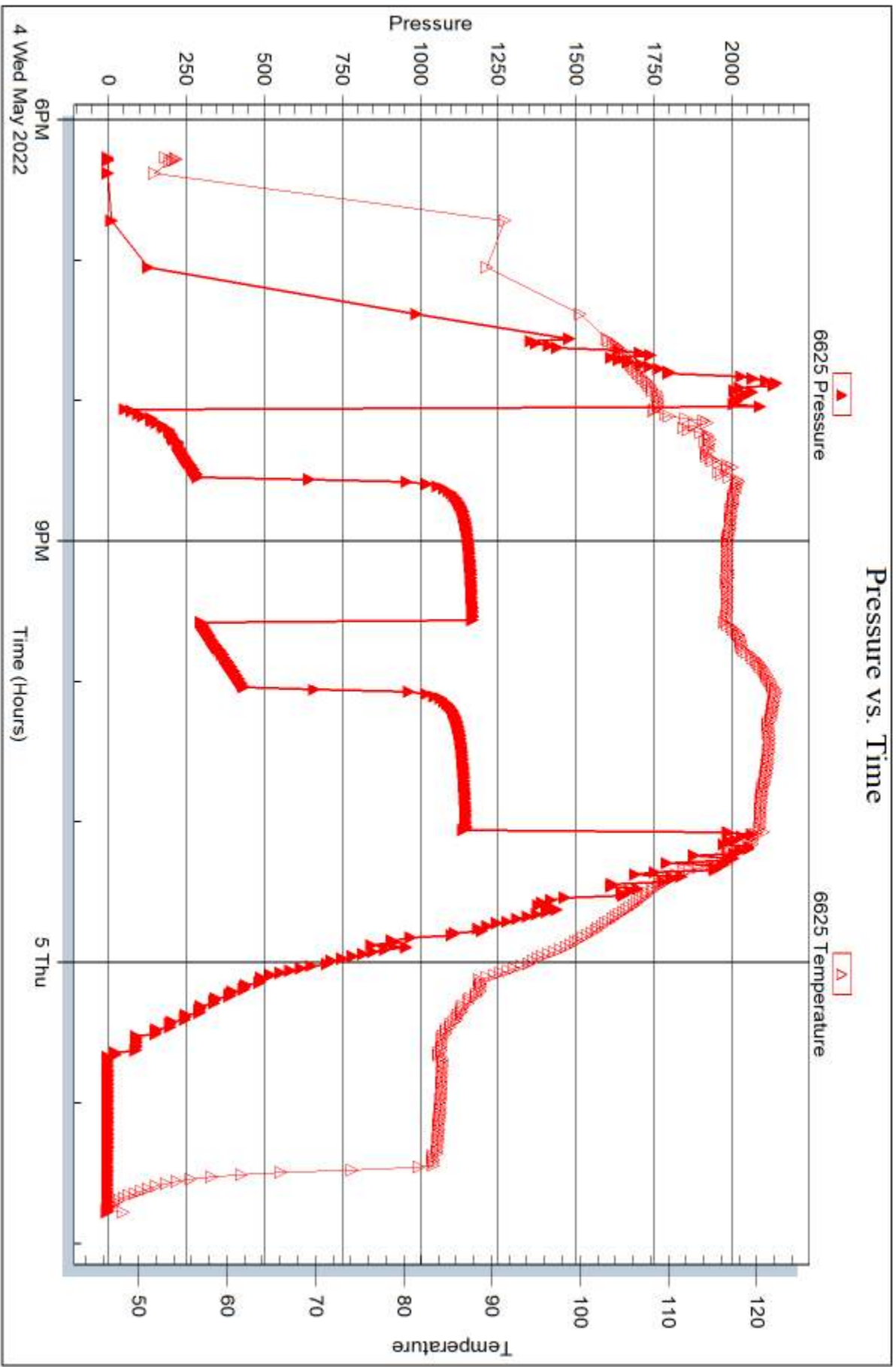
Serial #: 6625

Inside

Murfin Drilling Company Inc.

Weber #1-10

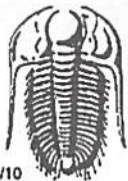
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68175

Printed: 2022.05.05 @ 15:26:40



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68173**

Well Name & No. Murfin Drilling Co Inc Weber #110 Test No. 1 Date 5/2/22
 Company Murfin Drilling Co Inc Elevation 2931 KB 2926 GL
 Address 250 N Water STE 300 Wichita KS 67207
 Co. Rep / Geo. Wes Hansen Rig Murfin Rig #7
 Location: Sec. 10 Twp 1 Rge. 32 Co. Rawlins State KS

Interval Tested 3804-3850 Zone Tested Oread
 Anchor Length 46 Drill Pipe Run 3549 Mud Wt. 8.8
 Top Packer Depth 3799 Drill Collars Run 236 Vis 72
 Bottom Packer Depth 3804 Wt. Pipe Run Ø WL 5-6
 Total Depth 3850 Chlorides 700 ppm System LCM 4#

Blow Description IF- Built to 4 1/4'
S12- No return
FF- Built to 5"
S12- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>117</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
<u>143</u>	<u>MW</u>		<u>55</u>	<u>45</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 260 BHT 116 Gravity _____ API RW .15 @ 39 °F Chlorides 95000 ppm

(A) Initial Hydrostatic <u>1946</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>03:40</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>04:59</u>
(C) First Final Flow <u>65</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>08:41</u>
(D) Initial Shut-In <u>1160</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>12:41</u>
(E) Second Initial Flow <u>70</u>	<input checked="" type="checkbox"/> Hourly Standby _____	T-Out <u>14:52</u>
(F) Second Final Flow <u>129</u>	<input checked="" type="checkbox"/> Mileage <u>64</u> 96	Comments <u>They waited 1 hr</u>
(G) Final Shut-In <u>1130</u>	<input type="checkbox"/> Sampler _____	<u>for me, the tripping was</u>
(H) Final Hydrostatic <u>1844</u>	<input type="checkbox"/> Straddle _____	<u>slow test was long</u>

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input checked="" type="checkbox"/> EM Tool <u>R#30</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Ruined Packer _____
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2196</u>
	Sub Total <u>2196</u>	MP/DST Disc't _____

Approved By _____ Our Representative Dust Dy

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. **68174**

Well Name & No. Weber #1-10 Test No. 2 Date 5/3/22
 Company Murfin Drilling Co Inc Elevation 2931 KB 2926 GL
 Address 250 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig Murfin Rig #7
 Location: Sec. 10 Twp 1 Rge. 32 Co. Rawlins State KS

Interval Tested 3886-3940 Zone Tested LKC D
 Anchor Length 54 Drill Pipe Run 3645 Mud Wt. 9.2
 Top Packer Depth 3881 Drill Collars Run 236 Vis 600
 Bottom Packer Depth 3886 Wt. Pipe Run Ø WL 6.0
 Total Depth 3940 Chlorides 1100 ppm System LCM 4#

Blow Description IF- Weak surface blow
SI1- No return
FF- No blow
SI2- No return

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

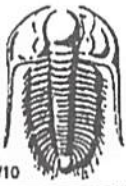
Rec Total 5 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1983 Test 1800 T-On Location 15:30
 (B) First Initial Flow 19 Jars 300 T-Started 16:31
 (C) First Final Flow 20 Safety Joint _____ T-Open 18:27
 (D) Initial Shut-In 509 Circ Sub N/A T-Pulled 21:27
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 23:37
 (F) Second Final Flow 21 Mileage 64 .96 Comments _____
 (G) Final Shut-In 321 Sampler _____
 (H) Final Hydrostatic 1999 Straddle _____ EM Tool B#30

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 60 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2196
 Sub Total 2196 MP/DST Disc't _____

Approved By _____ Our Representative DW D

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. 68175

Well Name & No. Weber #1-10 Test No. 3 Date 4/22
 Company Murfin Drilling Company Inc Elevation 2931 KB 2926 GL
 Address 250 W Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Wes Hansen Rig Murfin Rig #7
 Location: Sec. 10 Twp 1 Rge. 32 Co. Rawlins State KS

Interval Tested 3980-4080 Zone Tested LKC H-J
 Anchor Length 100 Drill Pipe Run 3740 Mud Wt. 9.2
 Top Packer Depth 3975 Drill Collars Run 236 Vis 64
 Bottom Packer Depth 3980 Wt. Pipe Run Ø WL 64
 Total Depth 4080 Chlorides 1000 ppm System LCM 4#

Blow Description IF-BOB 7min 15 sec. built to 43 1/4"
S11- No return
FF- BOB 9 1/2 min. built to 38 1/2"
S12- No return

Rec	Feet of	%gas	%oil	%water	%mud
425	MCW		90	10	
127	MW		50	50	
316	WCM		10	90	
84'	Mud			100	

Rec Total 952' BHT 117 Gravity _____ API RW .16 @ 46 °F Chlorides 75000 ppm

(A) Initial Hydrostatic <u>2092</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>17:40</u>
(B) First Initial Flow <u>51</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>18:16</u>
(C) First Final Flow <u>298</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>20:03</u>
(D) Initial Shut-In <u>1174</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>23:03</u>
(E) Second Initial Flow <u>301</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>01:47</u>
(F) Second Final Flow <u>445</u>	<input checked="" type="checkbox"/> Mileage <u>64</u> 96	Comments _____
(G) Final Shut-In <u>1154</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1987</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>-350</u>

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>-350</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1996</u>
	Sub Total <u>2346</u>	MR/DST Disc't _____

Approved By _____ Our Representative [Signature]

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CEMENT TREATMENT REPORT					
Customer:	Murfin Drilling	Well:	Weber # 1-10	Ticket:	WP 2734
City, State:	Oakley KS	County:	Rawlins KS	Date:	4/28/2022
Field Rep:	ARTURO	S-T-R:	10-1S-32W	Service:	Surface

Downhole Information			Calculated Slurry - Lead				Calculated Slurry - Tail			
Hole Size:	12.25 in		Blend:	H-325			Blend:			
Hole Depth:	350 ft		Weight:	14.8 ppg			Weight:	ppg		
Casing Size:	8 5/8 in		Water / Sx:	6.9 gal / sx			Water / Sx:	gal / sx		
Casing Depth:	350 ft		Yield:	1.41 ft ³ / sx			Yield:	ft ³ / sx		
Tubing / Liner:	in		Annular Bbls / Ft.:	0.0735 bbs / ft.			Annular Bbls / Ft.:	bbs / ft.		
Depth:	ft		Depth:	350 ft			Depth:	ft		
Tool / Packers:			Annular Volume:	25.7 bbls			Annular Volume:	0 bbls		
Tool Depth:	ft		Excess:				Excess:			
Displacement:	21.0 bbls		Total Slurry:	75.3 bbls			Total Slurry:	0.0 bbls		
			Total Sacks:	300 sx			Total Sacks:	0 sx		

TIME	RATE	PSI	STAGE	TOTAL	REMARKS
			BBLs	BBLs	
200P			-	-	GOT TO LOCATION
205P				-	SAFETY MEETING
210P				-	RIGGED UP TRUCKS
240P				-	CIRCULATED HOLE WITH RIG PUMP
245P	3.0	40.0	5.0	5.0	PUMPED H2O AHEAD
247P		230.0	75.3	80.3	PUMPED 300 SKS OF H- 325 @ 350 FT
302P	6.0	190.0	21.0	101.3	DISPLACED WITH H2O
306P				101.3	PLUG DOWN WITH 5 BBL TO PIT
310P				101.3	WASHED UP PUMP TRUCK
330P				101.3	RIGGED DOWN TRUCKS
345P				101.3	OFF LOCATION

Crew	Unit	Summary		
		Average Rate	Average Pressure	Total Fluid
Cementer:	Jimmie	180/520		
Pump Operator:	Josh	194/235	4.5 bpm	153 psi
Bulk #1:				
Bulk #2:				



CEMENT TREATMENT REPORT

Customer:	Murfin Drilling	Well:	Weber 1-10	Ticket:	wp 2760
City, State:	Atwood Kansas	County:	Rawlins Kansas	Date:	5/6/2022
Field Rep:	Artero	S-T-R:	10-1s-32w	Service:	PTA

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-Plug	Blend:	
Hole Depth:	2750 ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size:	in	Water / Sx:	6.8 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.43 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	32.0 bbls	Total Slurry:	64.9 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	255 sx	Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
12:45 AM			-	-	on location job and safety
1:00 AM			-	-	spot trucks and rig up
			-	-	
			-	-	1st plug 50 sacks at 2750
1:45 AM			-	-	start cement
	3.0		5.0	5.0	fresh water
	3.0		12.7	17.7	mix 50 sacks cement
	5.0		3.0	20.7	fresh water
			30.0	50.7	mud
2:10 AM					plug in
			-	-	2nd plug 100 sacks at 2077
2:35 AM					start cement
	3.0	400.0	5.0		fresh water
	3.0	400.0	25.4		mix 100 sacks cement
	5.0	200.0	20.0		displacement
2:45 AM					plug in
					3rd plug 50 sacks at 400
3:50 AM					start cement
	4.0	200.0	5.0		fresh water
	4.0	200.0	12.7		mix 50 sacks cement
	4.0	200.0	2.0		displacement
3:55 AM					plug in
5:00 AM	2.0	-	2.5		40 ft, mix 10 sacks
	2.0	-	7.6		rat hole mix 30 sacks
	2.0		3.8		mouse hole mix 15 sacks

CREW	UNIT	SUMMARY		
		Average Rate	Average Pressure	Total Fluid
Cementer:	M Brungardt	916		
Pump Operator:	J Pauly	208	3.3 bpm	200 psi
Bulk #1:	Jose	180/254		135 bbls
Bulk #2:				

DRILLING REPORT - LOG TOPS - Weber 1-10

MDCI
 Weber #1-10
 1980' FSL 1980' FWL
 Sec. 10-1S-32W
 2931' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref
Anhydrite	2725	+206	-2	2725	+206	-2
B/Anhydrite	2762	+169	+1	2764	+167	-1
Topeka	3680	-749	-1	3680	-749	-1
Oread	3825	-894	flat	3824	-893	+1
Lansing	3870	-939	flat	3870	-939	flat
Stark	4073	-1142	flat	4073	-1142	flat
Mound City	N/A	---	---	4120	-1189	+11
Marmaton	N/A	---	---	4185	-1254	-5
Ft Scott	DNP	---	---	DNP	---	---
RTD	4200					
LTD				4202		



WESLEY D. HANSEN Consulting Petroleum Geologist

212 N. Market, Suite 257, Wichita, KS 67202

Cellular 316.772.6188

whansen4651@sbcglobal.net

KGS

AAPG #799479

Kansas License #418



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

Well Name: Murfin Drilling Company, Inc. #1-10 Weber

API: 15-153-21288

Location: 1980' FSL, 1980' FWL of Sec. 10-1S-32W

License Number: 30606

Spud Date: 4-28-2022

Surface Coordinates: 1980' FSL, 1980' FWL of Sec. 10-1S-32W

Region: Rawlins County, KS

Drilling Completed: 5-5-2022

Bottom Hole Vertical hole

Coordinates:

Ground Elevation (ft): 2926'

K.B. Elevation (ft): 2931'

Logged Interval (ft): 3580' To: RTD

Total Depth (ft): 4200'

Formation: Marmaton at RTD

Type of Drilling Fluid: Chemical - displaced at 3264'-3305'

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

OPERATOR

Company: Murfin Drilling Co., Inc.

Address: 250 N. Water

Suite 300

Wichita, KS 67202

GEOLOGIST

Name: Wesley D. Hansen

Company: Wesley D. Hansen - Consulting Petroleum Geologist

Address: 212 N. Market, Suite 257

Wichita, KS 67202

Cellular: 316-772-6188

COMMENTS

Contractor: Murfin Drilling Co., Inc. Rig 7
Pusher: Arturo Cabezas

Surface Casing: 8 5/8" set at 350' w/300sx
Production Casing: P&A

Mud by: Morgan Mud - Dave Lines was the engineer.

DST's by: Trilobite - Dustin Day was the tester.

Logs by: Midwest Wireline: DIL, CNL/CDL, MEL, BHCS; Justin Hendrickson was the engineer

Deviation Surveys: 1/4 deg. @ 350'; 3/4 deg. @ 1173'; 1/4 deg. @ 3455'; 1/4 deg. @ 3850'; 3/4 deg. @ 4200'

BIT RECORD

Bit #	Size	MFG	Type	Depth Out	Footage Cut	Hours on Bit
1	12 1/4"	Smith	X21CR	350'	350'	3
2	7 7/8"	Smith	MDi516	3455'	3105'	30 3/4
3	7 7/8"	Smith	184VPS	4200'	745'	40

FORMATION TOPS AND STRUCTURAL COMPARISON

FORMATION	SAMPLE TOPS Depth Datum 2931' KB		LOG TOPS Depth Datum 2931' KB		COMPARISON WELL MDCI Maher #1-15 660' FNL, 2100' FEL Sec. 15-1S-32W 2986' KB
Anhydrite	2725'	+206	2725'	+206	+208
B/Anhydrite	2762'	+169	2764'	+167	+168
Topeka	3680'	-749	3680'	-749	-748
Oread	3825'	-894	3824'	-893	-894
Lansing	3870'	-939	3870'	-939	-939
Stark Shale	4073'	-1142	4073'	-1142	-1142
Mound City	NC		4120'	-1189	-1200
RTD	4200'	-1269			-1339
LTD			4202'	-1271	-1337

DRILL STEM TESTS

DST No. 1 Oread
Interval: 3804'-3850'
Times: 30-60-60-90
Recovery: 117' MCW (5m, 95w); 143' MCW (45m, 55w); chl. 95,000
FP: 21-65/70-129 SIP: 1160-1130
HP: 1946-1844 BHT: 116 deg. F

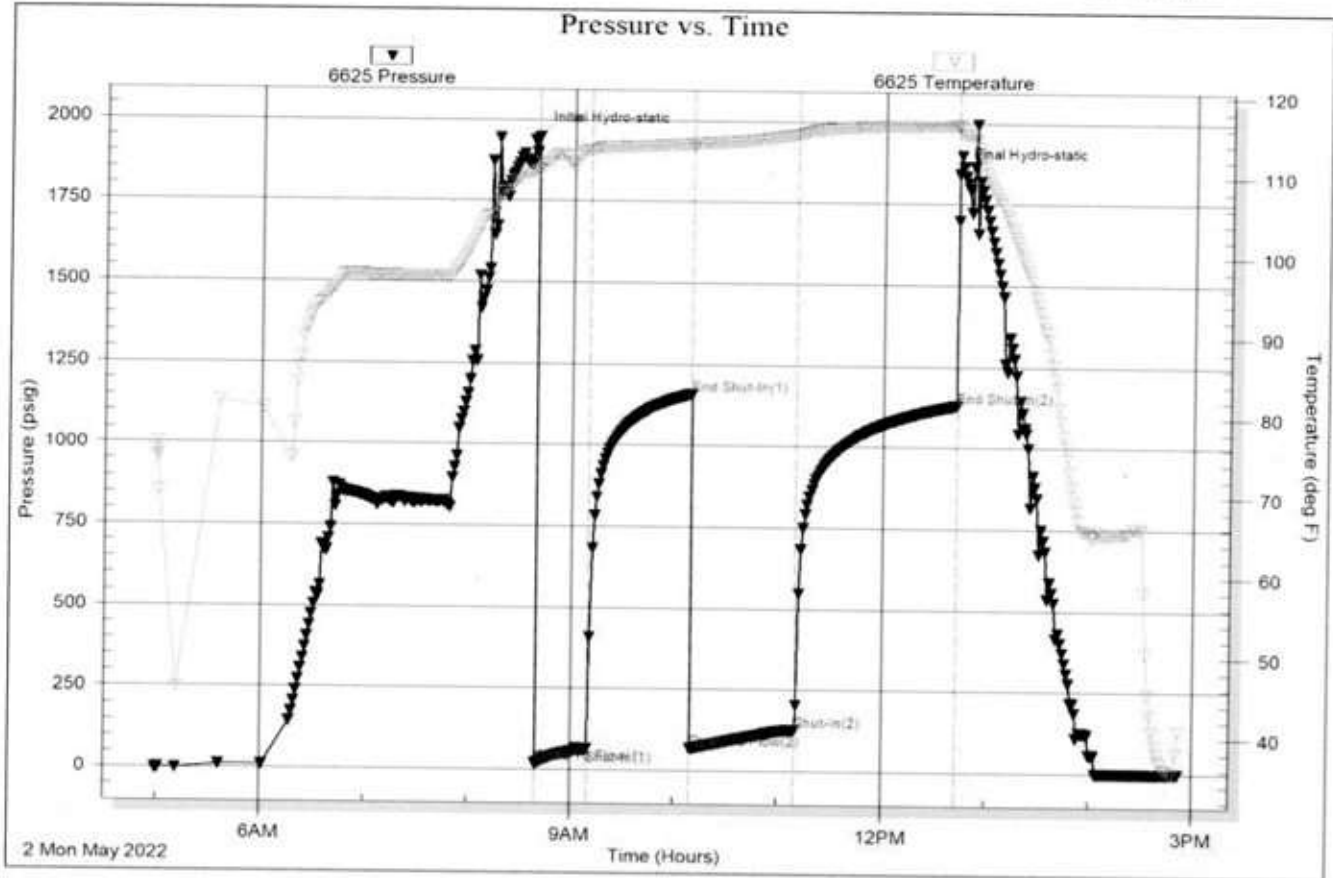
IFP: blow built to 4.25 inches
ISIP: no return blow
FFP: blow built to 5 inches
FSIP: no return blow

Serial #: 6625

Inside Murfin Drilling Company Inc.

Weber #1-10

DST Test Number: 1



DRILL STEM TESTS

DST No. 2 Lansing "D"
Interval: 3886'-3940'
Times: 30-60-30-60
Recovery: 5' mud
FP: 19-20/21-21 SIP: 509-321
HP: 1983-1999 BHT: 114 deg. F

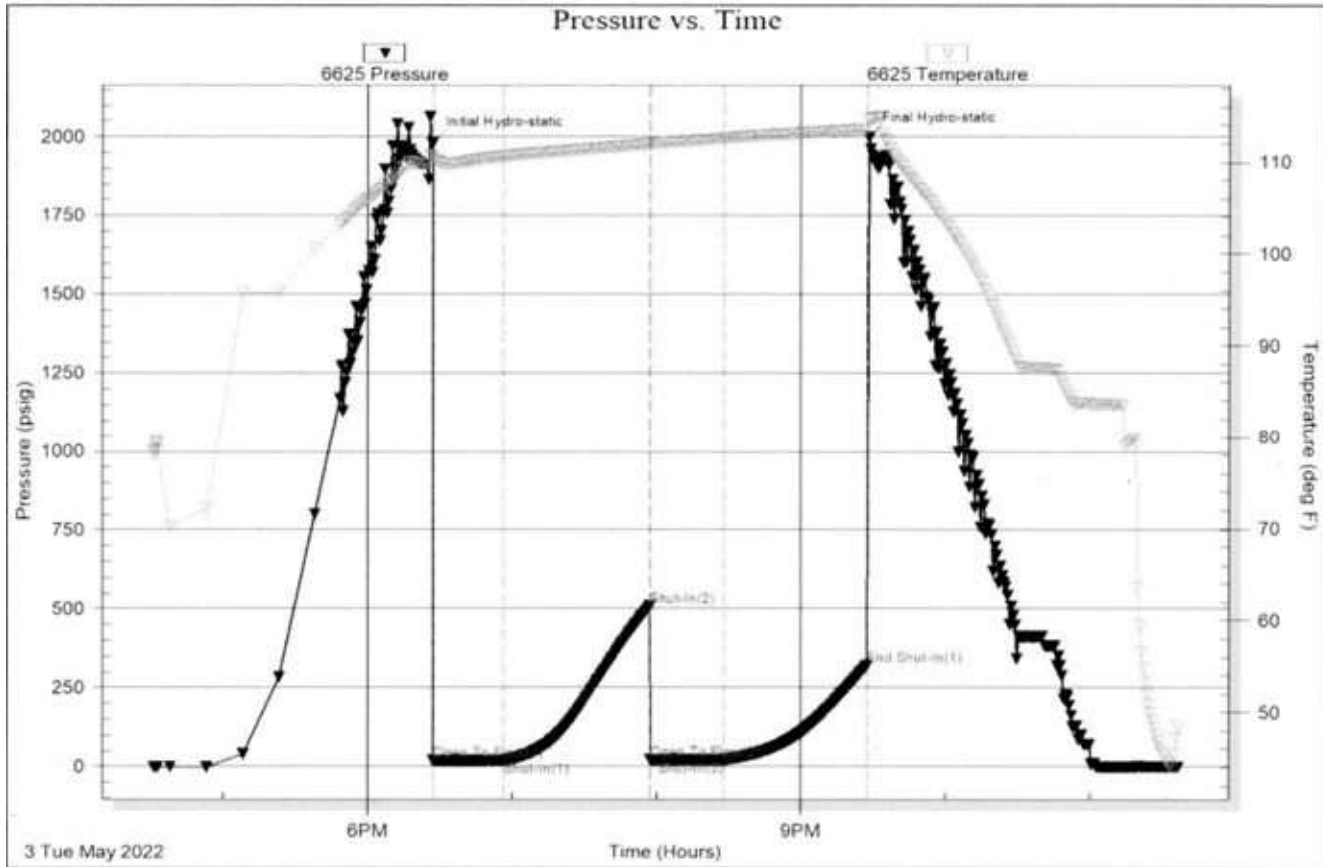
IFP: weak surface blow
ISIP: no return blow
FFP: no blow
FSIP: no return blow

Serial #: 6625

Inside Murfin Drilling Company Inc.

Weber #1-10

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68174

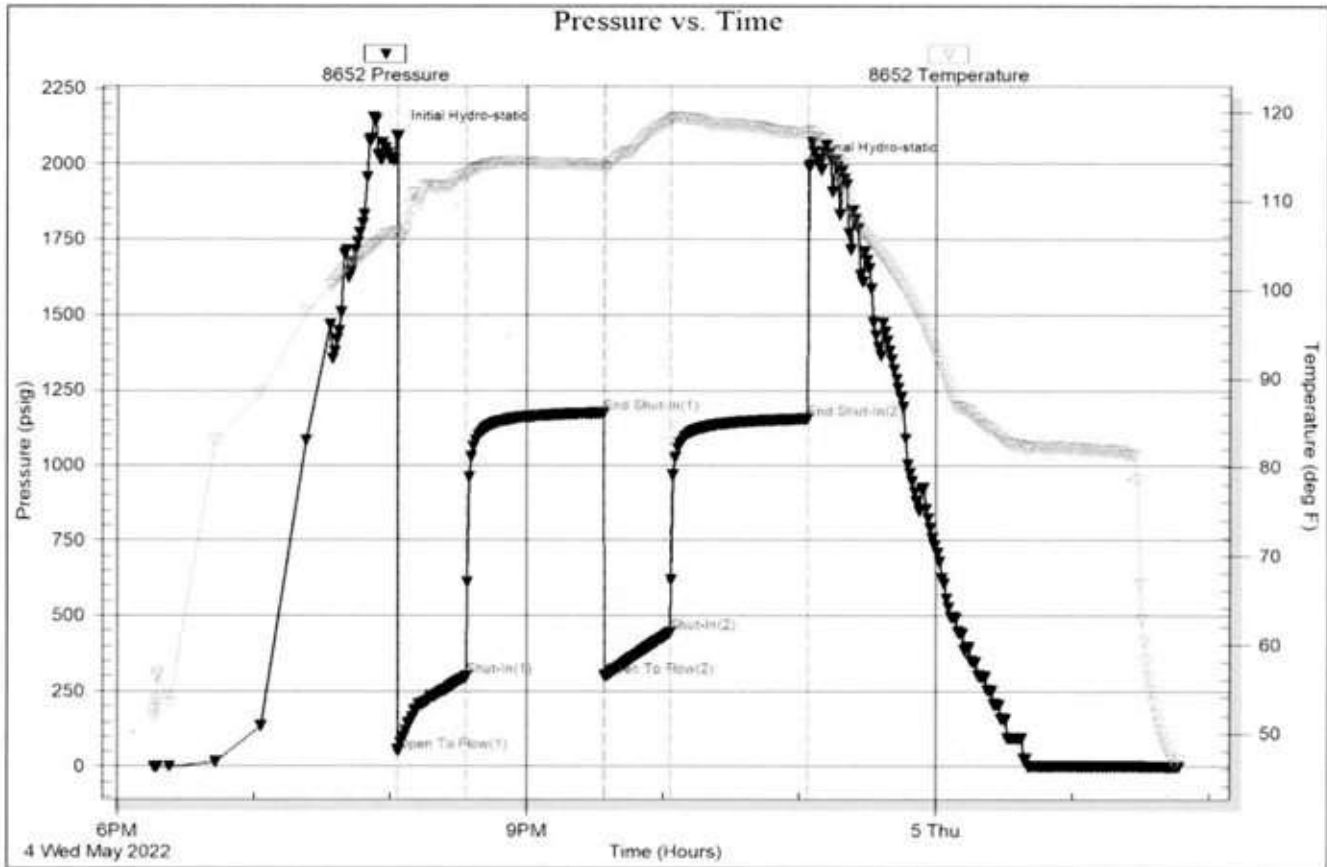
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DRILL STEM TESTS

DST No. 3 Lansing "H" & "J"
 Interval: 3980'-4080'
 Times: 30-60-30-60
 Recovery: 425' MCW (10m, 90w); 127' MW (50m, 50w); 316' WCM (10w, 90m); 84' mud; total fluid 952', chl. 75,000
 FP: 51-298/301-445 SIP: 1174-1154
 HP: 2092-1987 BHT: 117 deg. F

IFP: blow built to 43.25 inches
 ISIP: no return blow
 FFP: blow built to 38.5 inches
 FSIP: no return blow

Serial # 8652 Outside Murfin Drilling Company Inc. Weber #1-10 DGT Test Number: 3



Triobite Testing, Inc

Ref. No: 68175

Printed: 2022 05 05 @ 01:58:40

ROCK TYPES

	Congl		Lmst		Carb sh		Siltstn
	Igne		Salt		Dol		Shlyslts
	Anhy		Shale		Dtd		Sndy/siltyshale
	Cht		Shcol		Grayshale		Silty dolo
	Coal		Siltstone		Sandylms		Shy dolo
	Congl		red sst		Redshale		Shaly ls
	Gyp		Sst		Greenshale		Dolomite

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant

- Strom
- Fuss
- Oomold

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp

- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

STRINGER

- Anhy
- Arg

- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsl
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- red shale
- green shale
- Sltstn

OTHER SYMBOLS

INTERVALS

- Core
- Dst
- Dst

EVENTS

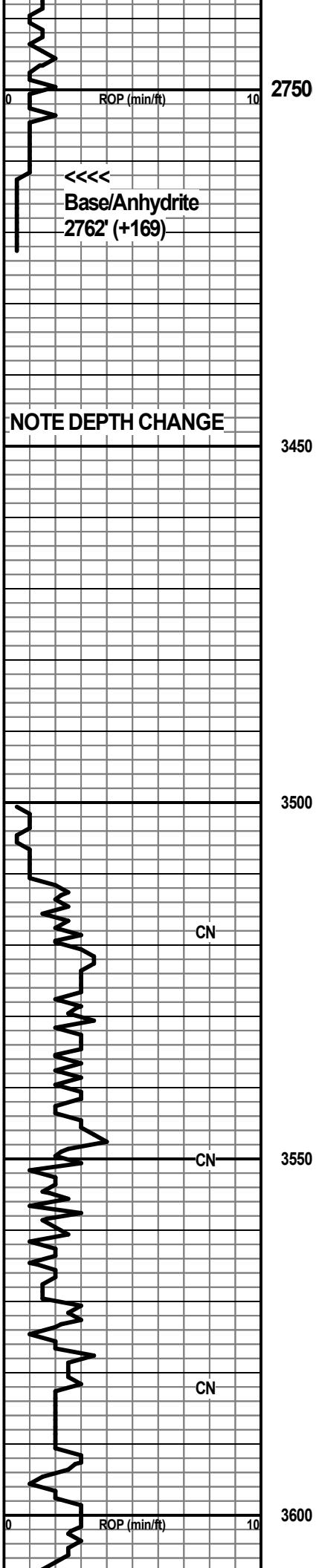
- Rft
- Dst top & bottom

OIL SHOWS

- Even
- Spotted
- Quest.

- Trace
- Dead
- Gas show

Curve Track 1 ROP (min/ft)		MD	Lithology	Geological Descriptions	Remarks
<p style="text-align: center;">ROP (min/ft) 10</p> <p style="text-align: center;">0</p> <p style="text-align: center;">2700</p> <p style="text-align: center;"><<<< Anhydrite 2725' (+206)</p>		2700			<p style="text-align: center;">Morning Depth & Activity</p> <p>4-26-22 MIRT 4-27 Repairs 4-28 Spud at 8:30 AM, set surface, DO at 11:00 PM 4-29 Drlg. @1150' 4-30 Drlg. @2550' 5-1 Drlg. @3614' 5-2 DST No. 1 at 3850' 5-3 3871' - Shut down for location conditions; post DST No. 1 5-4 Drlg. @3990' post DST No. 2 5-5 Drlg. @4116' post DST No. 3 5-6 RTD @4200', logging complete, P&A</p> <p style="text-align: center; margin-top: 20px;">Anhydrite 2725' (+206)</p>



Base/Anhydrite 2762' (+169)

Call point reached at 1:50 PM 4-30-22

bit trip at 3455'
Geologist on location at 8:00 PM
4-30-22

string wt 106 WOB 34K RPM 80
SPM 60 PP 800#

Start 10' samples at 3580'



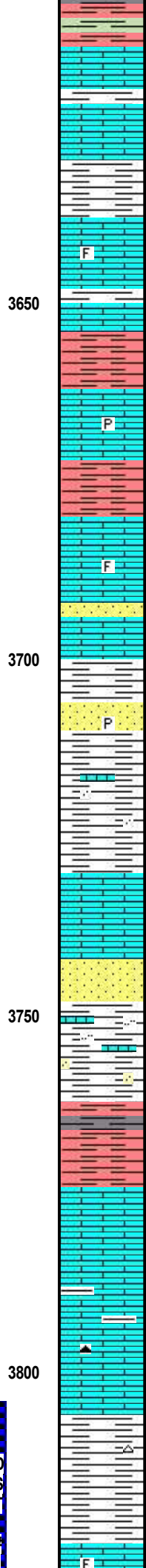
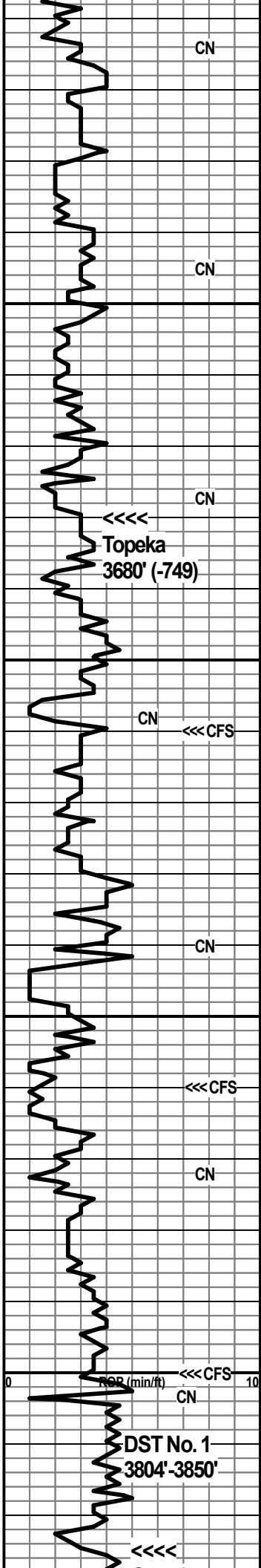
Sh: lt to med gray, red-brn

Ls: mix tan, lt gray fn granular; tan vf-cryptoxln and offwhite dense, subchalky; scaff. pyrite and sandy pyrite

Sh: mushy lt gray and mushy lt red

pred. Sh: red, red-brn firm to soft; lt to med gray; Ls: tan, offwhite dense

Ls: good influx offwhite, lt gray mic-vfdn dense and lt gray vf-cryptoxln; some sl mottled lt brn granular, NVP, N.S.



Sh: good influx lt to med red, pred. soft mushy; other lt gray, gray-green

predom. shales AA; Ls: tan, lt gray, offwhite mic-vfxn dense

Ls and Sh mix AA

Ls: offwhite, lt gray, tan micxtn to fn granular, poor-NVP, foss. IP, N.S.

Ls: mix AA with more lt brn granular, some brn cryptoxln; Sh: influx red, red-brn firm to soft, mushy

Sh: flood mushy red

Ls: mix tan, lt brn fn granular, some pnpt por.; lt gray vf-cryptoxln and offwhite micxtn, subchalky to chalky; occ pyrite

Sh: red, red-brn pred. firm

Ls: tan, offwhite fn granular, some poor pnpt por., N.S.; lt gray pred. cryptoxln and offwhite subchalky to chalky

Ls: tan, offwhite fn granular with some inter-particle por., foss. IP, N.S.; Sst: some lt gray vfg, sl calcareous

Ls: mottled red/brn granular, shaly; influx Sh: red, red-brn silty IP; some Sst: offwhite, lt gray vfg

Sst: tan, offwhite, lt gray with red tint vfg, pyritic IP; Sh: red firm to soft; occ red-maroon, lt gray, gray-green

Sh: red-brn, red firm, sandy IP with Sst AA; some lt gray cryptoxln Ls

Ls: mix lt gray, tan vf-cryptoxln, NVP; some tan granular with some inter-particle por., N.S.; common white subchalky to chalky

Ls: mix AA, abund. chalky; Sh: red, red-brn firm to soft, vf sandy IP; Sst: lt yellow vfg soft, lt red vfg

Sh: red, red-brn vfg sandy and silty IP; Ls: some tan, lt gray vf-cryptoxln

Sh: flood mushy red, some dark gray

Ls: mix offwhite, lt gray cryptoxln; with abund. offwhite subchalky to chalky; some tan fn granular, poor-NVP, N.S.

Ls: mix AA, N.S.; sl incr. lt to med gray shale

Ls: predom. tan, offwhite, lt gray vf-cryptoxln; less chalky; occ dark opq chert

Ls: offwhite, lt gray, tan mic-vfxn dense; some lt gray vf-cryptoxln and white chalky; petroliferous odor

Sh: dark gray to black with petroliferous odor; Ls mix AA, with occ white opq chert

Ls: tan, lt gray granular, foss. IP with scatt. vug and inter-particle por. with sl odor. sl sfo. thick dark brn to black

7:00 AM at 3614' on 5-1-22

Morgan Mud Check at 3620'

7:30 AM on 5-1-2022

wt vis wl pH chl

8.8 72 5.6 12.0 700

PV YP Ge/S lcm solids

22 23 15/34 4# 3.5%

Topeka 3680' (-749)

DST No. 1 Oread

Interval: 3804'-3850'

Times: 30-60-60-90

IFP: blow built to 4.25 inches

ISIP: no return blow

FFP: blow built to 5 inches

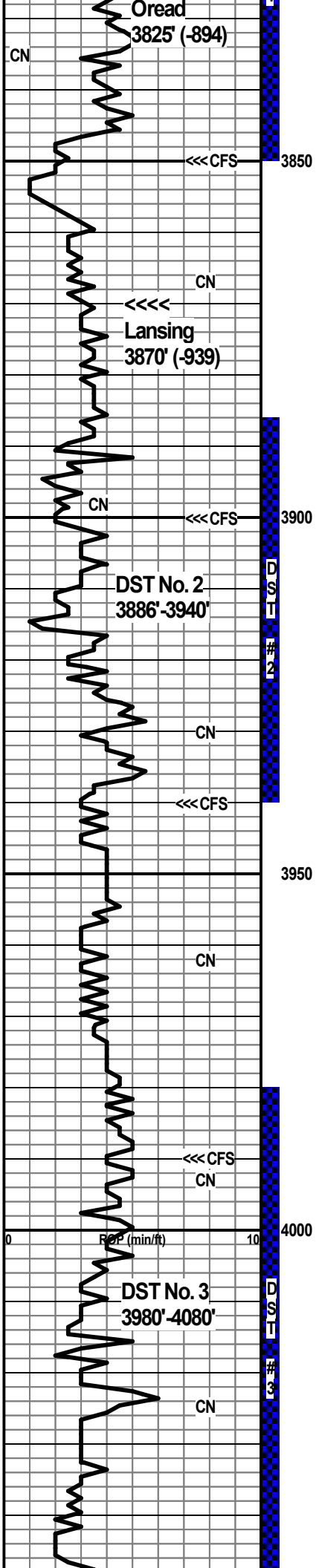
FSIP: no return blow

Recovery: 117' MCW (5m, 95w); 143' MCW (45m, 55w); chl. 95,000

FP: 21-65/70-129 SIP: 1160-1130

HP: 1946-1844 BHT: 116 deg. F

Oread 3825' (-894)



spotty oily stain, dull even fluor.

Ls: flood tan, lt brn, lt gray cryptoxln and offwhite, tan mic-vfxln dense, occ subchalky, N.S.

Sh: red, red-brn, med gray; Ls: various cryptoxln and dense AA

Sst: offwhite, lt gray vfg silty and micac.

Sh: red, red-brn firm to soft, silty IP; various med to dark gray; scatt. Sst lt gray fg, pyritic IP

Ls: tan, lt brn, lt gray cryptoxln; lesser offwhite subchalky, N.S.

Ls: tan, lt brn, some gray-brn cryptoxln, NVP; more offwhite mic-vfxln dense, N.S.

Sh: red, red-brn, some red-maroon and gray, gray-green; Ls: various AA with one chip tan fn granular with patchy inter-particle por., sl-fair sfo (slough?); scatt. gray, offwhite Siltst and vfg gray shaly Sst

Sh: red firm to mushy, scatt. gray fg shaly Sst

30' spl - Ls: many chips tan, lt brn fn granular with some poor-fair inter-particle por., some small vug. and pnpt por. with good sfo on break, some bleeding oil and gas, pnpt to subsat. stain no odor; Sh: common AA

Ls: pred. offwhite, lt gray vf-cryptoxln, NVP

Ls: tan, lt gray cryptoxln and offwhite mic-vfxln subchalky to chalky; Sh: red, red-brn silty IP; sl influx pale brn mushy

Sh: abund. red, red-brn, red-maroon; lt-med gray, pyritic IP; Ls: some tan granular, sl oolitic IP, NVP, N.S.

Sh: red, red-brn firm to soft; lt to med gray, gray-green

Sh: mix AA; Ls: pred. offwhite, lt gray mic-vfxln dense; one chip tan fnxln with some pnpt por. with lt stain, nfo (slough?)

Ls: flood lt gray mic-vfxln dense, shaly IP

Ls: shaly dense AA; lesser offwhite mic-vfxln dense and gray vf-cryptoxln, NVP, N.S.

Sh: flood lt to med gray mushy; other various gray firm; with Ls: influx offwhite micxln subchalky to chalky and tan, lt gray vfxln dense

Sh: lt to med gray, red, red-brn firm; some mushy pale gray

Sh: influx pale gray mushy; others AA; one chip Ls: tan fnxln with pnpt por. with spotty dark black stain, vsl show residual oil

Ls: 4-5 chips lt brn oolitic with pred. spar matrix, poor to NVP, vsl sfo, some black stain in vuggy por.

Ls: flood offwhite, tan mic-vfxln dense, subchalky and tan, lt gray vf-cryptoxln, NVP, N.S.

Sh: mushy pale gray and mushy lt red, pale green; Ls: mix tan, lt gray AA; more tan, offwhite mic-vfxln dense

Sh: flood mushy lt red

Sh: flood red, red-brn, brn, med to dark gray, gray-green,

Oread 3825' (-894)
 Morgan Mud Check at 3850'
 8:00 AM on 5-2-2022
 wt vis wl pH chl
 9.1 62 6.0 11.5 700
 PV YP GeIS lcm solids
 19 21 13/28 6# 5.7%
 7:00 AM at 3850' on 5-2-22

Rig operations were shut down at 3871' at 6:55 PM on 5-2-22 until the conditions leading to the location and on the location improve.

Lansing 3870' (-939)
 7:00 AM at 3871' on 5-3-22
 Drilling was resumed at 7:35 AM on 5-3-22

DST No. 2 Lansing "D"
 Interval: 3886'-3940'
 Times: 30-60-30-60
 IFP: weak surface blow
 ISIP: no return blow
 FFP: no blow
 FSIP: no return blow
 Recovery: 5' mud
 FP: 19-20/21-21 SIP: 509-321
 HP: 1983-1999 BHT: 114 deg. F

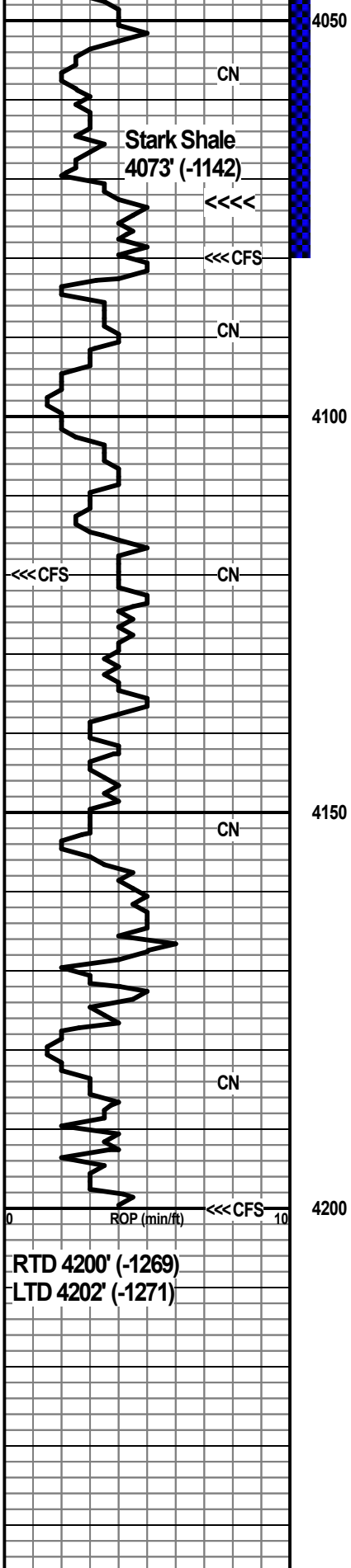
string wt 116K WOB 38K RPM 80
 SPM 60 PP 800#
 wt 9.2 vis 59 lcm 4#

Morgan Mud Check at 3940'
 1:15 PM on 5-3-2022
 wt vis wl pH chl
 9.2 60 6.0 11.5 1100
 PV YP GeIS lcm solids
 18 20 13/29 4# 6.4%

7:00 AM at 3990' on 5-4-2022

Morgan Mud Check at 4002'
 7:55 AM on 5-4-2022
 wt vis wl pH chl
 9.2 64 6.4 11.0 1000
 PV YP GeIS lcm solids
 19 20 14/33 4# 6.4%

DST No. 3 Lansing "H" & "J"
 Interval: 3980'-4080'
 Times: 30-60-30-60
 IFP: blow built to 43.25 inches
 ISIP: no return blow
 FFP: blow built to 38.5 inches
 FSIP: no return blow
 Recovery: 425' MCW (10m, 90w); 127' MW (50m,



mottled red/gray splintery

Ls: abund. offwhite, tan granular to cryptoxn with gen. poor inter-particle and some vuggy, and edge por.; with dark brn to black stain, vsI odor, trace-nfo

Ls: lt gray, tan cryptoxn to sl granular, poor-NVP, N.S.; abund. offwhite, tan mic-vfdn dense

Sh: red-brn, red-maroon, med gray

Sh: red, red-brn, lesser lt to med gray; some Ls: offwhite, tan mic-vfdn dense; some pale gray shaly Siltst

Sh: very pred. red-brn, red-maroon, red

Sh: mix AA, some mushy lt red

Sh: AA, new brn and purplish gray; Ls: sl influx white chalky and tan mic-vfdn dense, N.S.

Ls: flood offwhite, tan mic-vfdn subchalky to chalky; lt gray, tan granular IP and v-cryptoxn IP, NVP, N.S.; Sh: red, red-brn, lt-med gray, some mushy lt gray

Sh: red-brn, red-maroon, lt to med gray, occ brn

Sh: new mushy pale gray and mushy pale red; Ls: some lt gray, brn cryptoxn and mottled red/brn granular, shaly

Sh: mix AA; Ls: tan granular, NVP and offwhite, tan mic-vfdn dense; trace crinoid fragments

Ls: influx lt gray, tan vfdn dense; offwhite, tan mic-vfdn; Sh: mix AA; with pale gray mushy; sl influx med gray

Ls: mix AA with some tan, offwhite granular, NVP; Sh: mix AA; some pale gray and offwhite mushy

Sh: flood pale gray, pale red mushy

Sh: red, red-brn, gray pred. firm; thin Ls's

Sh: various red, red-brn, with gray, brn, gray-green; occ foss. fragments; occ red silty shale; minor Ls

Because of the lack of any commercial shows of oil, as evidenced by samples, DST results and open hole log evaluations, the #1-10 Weber was plugged as a dry hole.

Respectfully submitted,

Wesley D. Hansen
Petroleum Geologist
Kansas License No. 418

50w); 316' WCM (10w, 90m); 84' mud; total fluid 952', chl. 75.000
FP: 51-298/301-445 SIP: 1174-1154
HP: 2092-1987 BHT: 117 deg. F

Stark Shale 4073' (-1142)

7:00 AM at 4116' on 5-5-2022

Morgan Mud Check at 4121'
7:50 AM on 5-5-2022
wt vis wl pH chl
9.4 76 6.8 10.5 1200
PV YP Ge/S lcm solids
21 27 16/40 3# 7.8%

Pipe strap at RTD
strap 4216.38'
board 4215.92' 0.46 long to board

RTD reached at 12:52 PM on 5-5-2022
CFS 45' - short trip - CTCH 1 hour
drop survey - strap out for loggers