

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	WEIS 'A' 1-14
Doc ID	1793730

All Electric Logs Run

DIL
DUCP
MEL
BHCS

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	WEIS 'A' 1-14
Doc ID	1793730

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	23	260		200	



Well-Site Geologists

Jeison Rodriguez
(316) 372-9089

Murfin Drilling Company, Inc.

250 N Water, Suite 300
Wichit, KS, 67202

Software: HMG Strata Log
HMG Software LLC
PO Box 20658, Albuquerque, NM 87154
505-320-3432 www.hmgsoftwarellc.com

Operator

Murfin Drilling Company, Inc.

Well Name

Weis 'A' #1-14

Operator Address

250 N Water, Suite 300
Wichita, KS, 67202

Well Information

Field: Wildcat
Region: Northwest
Coordinates: X=317175 Y=445952

Location: 2135'FNL 330'FWL
State: Sheridan, KS
API Index: 15-179-21508
Rig Operator: Murfin Drilling Co. Inc Rig #8

Ground Elevation(ft): 2730.0
KB Elevation(ft): 2735.0
Spud Date: 7/26/2024
Drilling Concluded: 8/1/2024
Murfin Drilling Company, Inc. Geologist(s):
Keaton Lewis

Rig Supervisor(s):
Jason Galli

Hole Data

DST #1 Toronto-LKC'B' 3870'-3940'30-60-30-60
Rec:240' HMCW (70% W, 30% M)
20' M w/ Oil Spots (100% M)
SIP: 1256-1239 psi
DST #2 LKC'F'-LKC'G' 3972'-4010'30-60-30-60
Rec: 70' M (100% M)
SIP: 1107-1101 psi
DST #3 LKC'J' 4018'-4077'30-60-30-60
Rec: 5' M (100% M)
SIP: 671-614 psi

Casing Data

Shurface Casing
8 5/8 @ 260'

Legend - Scale 1:240 (1" = 20')

Formation Tops

Formation	Sample	E-Log
TOPEKA	3682' (-947)	3676' (-941)
HEEBNER	3873' (-1138)	3868' (-1133)
LANSING	3914' (-1179)	3914' (-1179)
STARK	4076' (-1341)	4074' (-1339)
MOUND CITY	4118' (-1381)	4120' (-1385)
RTD	4200' (-1465)	
LTD		4193' (-1458)

Due to three negative results on three DST's, the decision was made to plug the well.

Log Images

	Bit Trip
	Midnight
	Gas Show
	Oil Show
	Casing Show
	AM Report
	PM Report
	Tight Connection
	Fracture
	Formation TOP
	Formation MEMBER
	Pressure Test
	Carbonaceous
	Calcite
	Kaolinite
	Survey
	Pyrite
	Fossil
	Connection

Lithology

	Anhydrite
	Bentonite
	Breccia
	Carbonaceous Shale
	Cement
	Chert
	Claystone
	Coal
	Conglomerate
	Dolomite
	Fault or Fracture
	Glaucinite
	Gypsum
	Limestone
	Marlstone
	Mudstone
	Salt
	Sandstone
	Shale
	Siltstone

Graph Curves

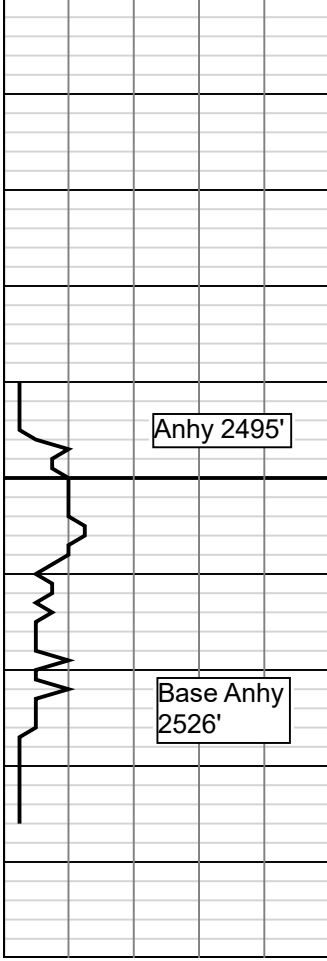
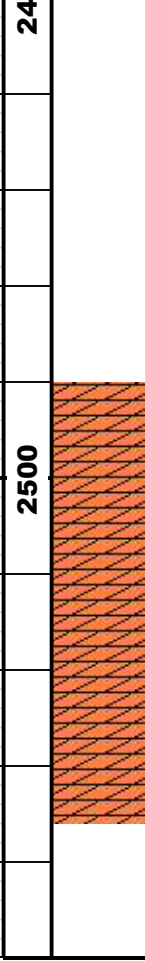
Graph #1

ROP (min/ft)

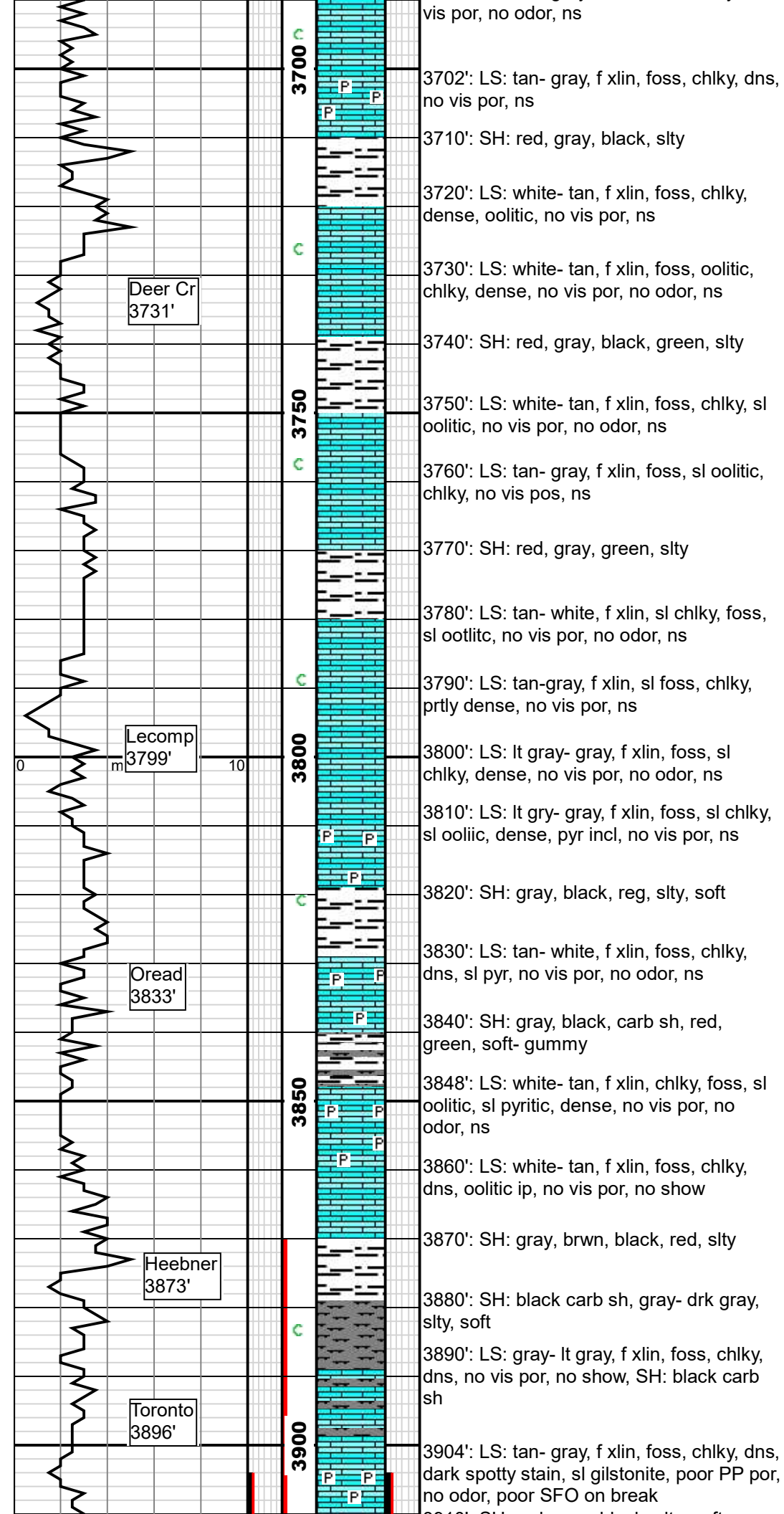
Graph #2

Intervals

	Show
	Tops
	CFS
	DST #2
	DST #1
	DST #3
	DST #4

Graph #1	Porosity	Depths (ft)	Stratigraphy	Oil Show	Descriptions	Graph #2
		24 2500				

[illegible]



CFS @ 3702'

20min: LS: white- tan, f xlin, chlky, foss, sl pyr, dns, no vis por, no odor, ns

8:00am 7/29/2024

wt 8.9, vis 62, lcm #5.0

Morgan Mud, Dave Lines

CFS @ 3848'

20min: LS: tan- gray, f xlin, foss, sl chlky, sl oolitic, dense, sl pyritic, no vis por, no odor, ns

40min: SH: red, gray, black, slty

DST #1 Toronto - LKC 'B'

3870'- 3940' 30-60-30-60

IF: Built to 5 1/2"

ISI: No return

FF: Builr to 5"

FSI: No return

Rec: 240' HMCW (70% w, 30% M)

20' M w/ Oil Spots (100% M)

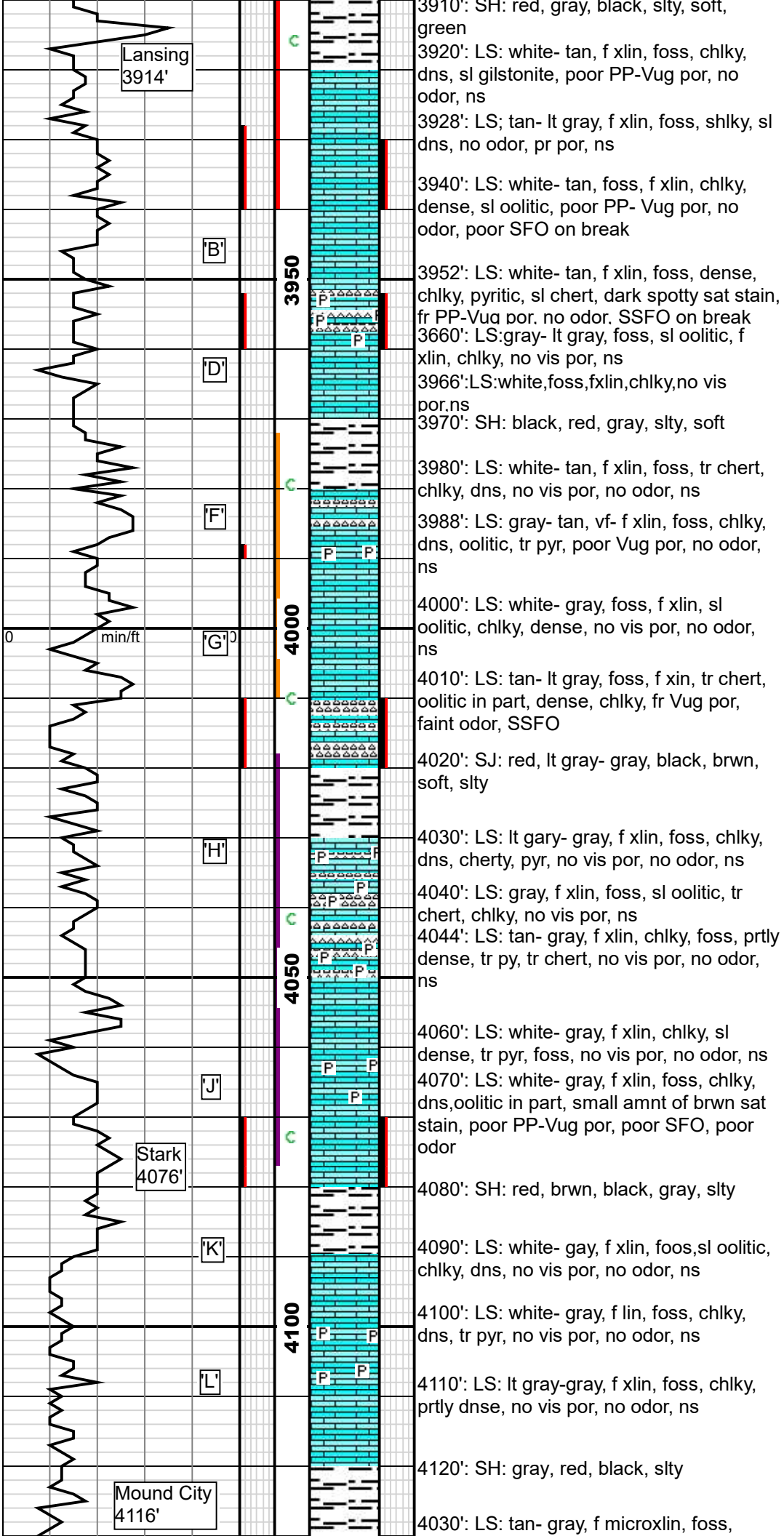
Hydro: 1942-1924 psi

IF: 35-113 psi, FF: 119-150 psi,

SIP: 1256-1239 psi, BHT: 119 *F

CFS @ 3904'

20min: LS: tan- gray, f xlin, foss, sl chlky, dense, dark sat stain, sl



gilstonite, poor PP por, no odor, poor SFO on break

CFS @ 3928'

20min: LS: white- tan, foss, f xlin, chlky, dense, poor black spotty sat stain, poor Vug por, no odor, ns

8:00am 7/30/2024

wt 9.2, vis 67, lcm #5.0

Morgan Mud, Cade Lines

CFS @ 3940'

20min: LS: white- tan, foss, oolitic, chlky, dense, small amount of spotty black stain, poor PP- Vug por, no odor, poor SFO on break

CFS @ 3952'

DST #2 LKC 'F'-LKC 'G'

3972'- 4010' 30-60-30-60

IF: Built to 3/4"

ISI: No return

FF: Buil to 1/2"

FSI: No return

Rec: 70' M (100% M)

Hydro: 1998-1976 psi,

IF: 30-53 psi, FF: 55-77 psi,

SIP: 1107-1101 psi, BHT: 118 *F

8:00am 7/31/2024

wt 9.3, vis 60, lcm #4.0

Morgan Mud, Dave Lines

CFS @ 4010'

20min: LS: white- lt gray, f xlin, foss, oolitic, dns, chlky, fr Vug por, faint odor, SSFO

DST #3 LKC 'H'-LKC 'J'

4018'-4077" 30-60-30-60

IF: Built to 3/4" decreased to 1/2"

ISI: No return

FF: No return

FSI: No return

Rec: 5' M (100% M)

Hydro: 2024-2009 psi,

IF: 30-32 psi, FF: 33-35 psi,

SIP: 671-614 psi, BHT: 117 *F

CFS @ 4044'

CFS @ 4070'

20min: LS: white- lt gray, f xlin, foss, sl oolitic, chlky, dns, poor Vug por, poor SFO, poor odor

CFS @ 4077'

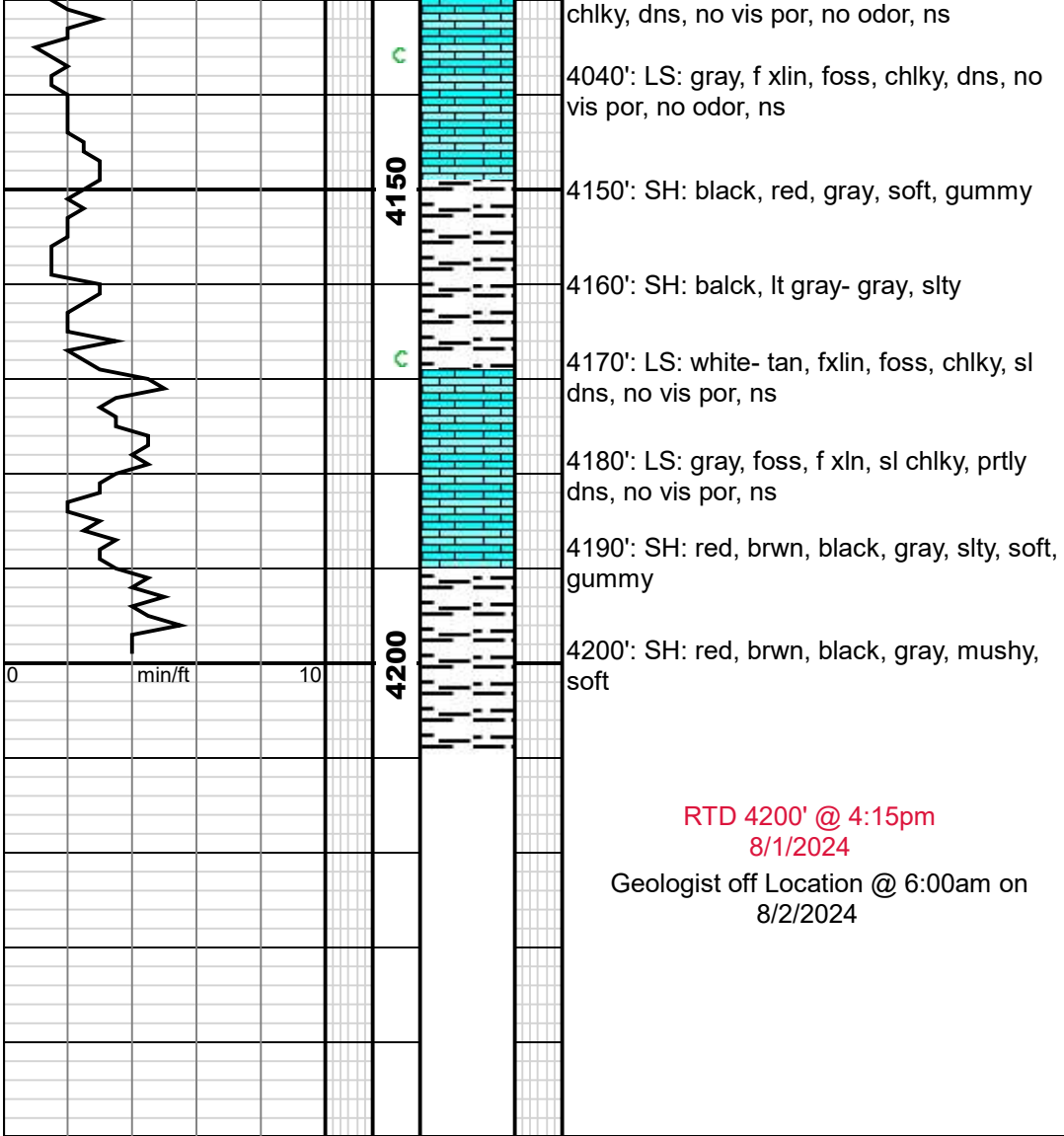
8:00am 8/1/2024

wt 9.3, vis 59, lcm #4.0

Morgan Mud, Dave Lines

CFS @ 4100'

20min: LS: lt gray- gray, f xlin, foss, chlky, sl oolitic, no vis por, no odor, ns



RTD: 4200' (-1465)
LTD: 4193'

RTD 4200' @ 4:15pm
8/1/2024
Geologist off Location @ 6:00am on
8/2/2024



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
STE 300
Wichita, KS 67202

ATTN: Jeison Rodriguez

Weis 'A' # 1-14

14-6S.-28W. Sheridan, KS

Start Date: 2024.07.30 @ 03:02:00

End Date: 2024.07.30 @ 10:29:09

Job Ticket #: 71825 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.08.02 @ 09:36:27

Murfin Drilling Co Inc

14-6S.-28W. Sheridan, KS

Weis 'A' # 1-14

DST # 1

" Toronto - LKC B "

2024.07.30



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
STE 300
Wichita, KS 67202
ATTN: Jeison Rodriguez

14-6S.-28W. Sheridan, KS

Weis 'A' # 1-14

Job Ticket: 71825

DST#: 1

Test Start: 2024.07.30 @ 03:02:00

GENERAL INFORMATION:

Formation: "Toronto - LKC B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:14:20

Time Test Ended: 10:29:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 3870.00 ft (KB) To 3940.00 ft (KB) (TVD)

Total Depth: 3940.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2735.00 ft (KB)

2730.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press@RunDepth: 149.84 psig @ 3871.00 ft (KB)

Start Date: 2024.07.30

End Date:

2024.07.30

Start Time: 03:02:01

End Time:

10:29:10

Capacity: 8000.00 psig

Last Calib.: 2024.07.30

Time On Btm: 2024.07.30 @ 05:14:10

Time Off Btm: 2024.07.30 @ 08:28:09

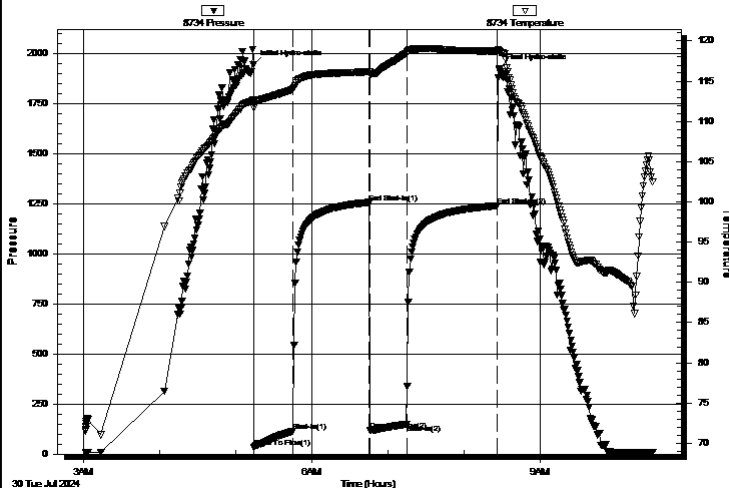
TEST COMMENT: 30-IF-Blow built to 5 1/2"

60-ISI-No return

30-FF-Blow built to 5"

60-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.33	112.66	Initial Hydro-static
1	35.15	111.66	Open To Flow (1)
32	112.89	113.99	Shut-In(1)
92	1256.07	116.18	End Shut-In(1)
92	119.02	115.87	Open To Flow (2)
121	149.84	118.50	Shut-In(2)
193	1239.31	118.71	End Shut-In(2)
194	1924.00	118.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	HMCW 30%M, 70%W	1.75
20.00	100% Mud w /Oil spots	0.28
0.00	Oil spots in tool	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
STE 300
Wichita, KS 67202
ATTN: Jeison Rodriguez

14-6S.-28W. Sheridan, KS

Weis 'A' # 1-14

Job Ticket: 71825

DST#: 1

Test Start: 2024.07.30 @ 03:02:00

GENERAL INFORMATION:

Formation: "Toronto - LKC B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:14:20

Time Test Ended: 10:29:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 3870.00 ft (KB) To 3940.00 ft (KB) (TVD)

Total Depth: 3940.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2735.00 ft (KB)

2730.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 3871.00 ft (KB)

Start Date: 2024.07.30

End Date:

2024.07.30

Start Time: 03:02:01

End Time:

10:29:10

Capacity: 8000.00 psig

Last Calib.: 2024.07.30

Time On Btm:

Time Off Btm:

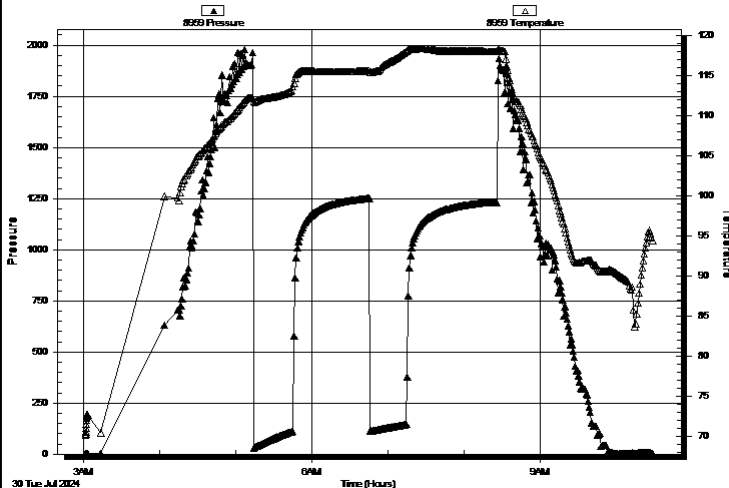
TEST COMMENT: 30-IF-Blow built to 5 1/2"

60-ISI-No return

30-FF-Blow built to 5"

60-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
240.00	HMCW 30%M, 70%W	1.75
20.00	100% Mud w /Oil spots	0.28
0.00	Oil spots in tool	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

14-6S.-28W. Sheridan,KS

250 N Water
STE 300
Wichita,KS 67202
ATTN: Jeison Rodriguez

Weis ' A ' # 1-14

Job Ticket: 71825

DST#: 1

Test Start: 2024.07.30 @ 03:02:00

Tool Information

Drill Pipe:	Length:	3687.00 ft	Diameter:	3.80 inches	Volume:	51.72 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:	178.00 ft	Diameter:	2.25 inches	Volume:	0.88 bbl	Weight to Pull Loose:	86000.00 lb
					Total Volume:	52.60 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:		3870.00 ft					Final	70000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		70.00 ft						
Tool Length:		103.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments: Pulled 22K over STWT coming off bottom

Tool Description

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

Change Over Sub	1.00			3838.00		
Shut In Tool	5.00			3843.00		
Hydraulic tool	5.00	1113		3848.00		
Jars	5.00	01-07		3853.00		
EM Tool	5.00			3858.00		
Safety Joint	3.00	-001		3861.00		
Packer	5.00			3866.00	33.00	Bottom Of Top Packer
Packer	4.00			3870.00		
Stubb	1.00			3871.00		
Recorder	0.00	8959	Inside	3871.00		
Recorder	0.00	8734	Outside	3871.00		
Perforations	30.00			3901.00		
Change Over Sub	1.00			3902.00		
Drill Pipe	32.00			3934.00		
Change Over Sub	1.00			3935.00		
Bullnose	5.00			3940.00	70.00	Bottom Packers & Anchor
Total Tool Length:	103.00					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

14-6S.-28W. Sheridan,KS

250 N Water
STE 300
Wichita,KS 67202
ATTN: Jeison Rodriguez

Weis ' A ' # 1-14

Job Ticket: 71825

DST#: 1

Test Start: 2024.07.30 @ 03:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 5.99 in³

Resistivity: ohm.m

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 13500 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	HMCW 30%M, 70%W	1.745
20.00	100% Mud w /Oil spots	0.281
0.00	Oil spots in tool	0.000

Total Length: 260.00 ft

Total Volume: 2.026 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.493 @ 72.5 degs = 13,500PPM

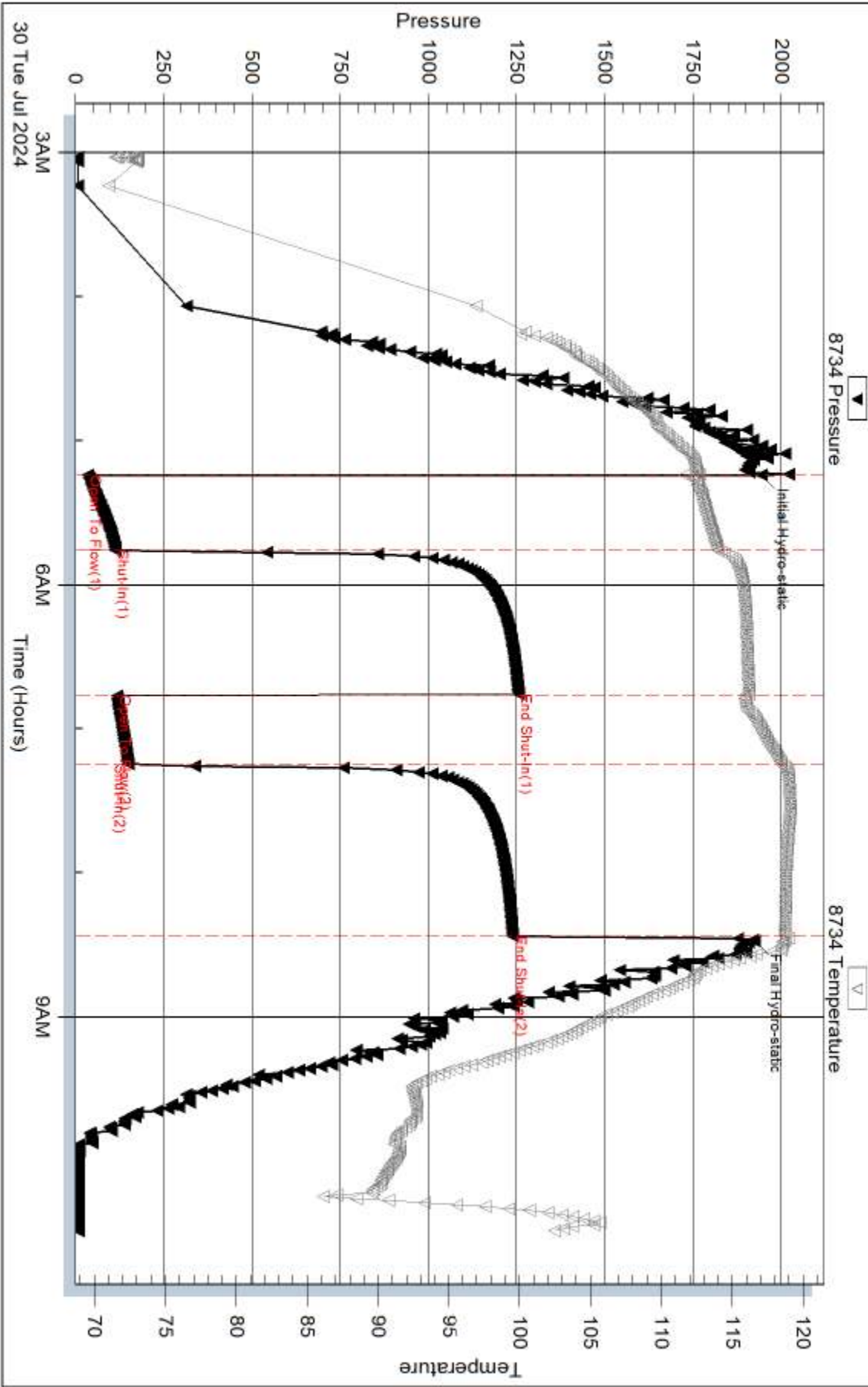
Serial #: 8734

Outside Murfin Drilling Co Inc

Weiss 'A' # 1-14

DST Test Number: 1

Pressure vs. Time



Serial #: 8959

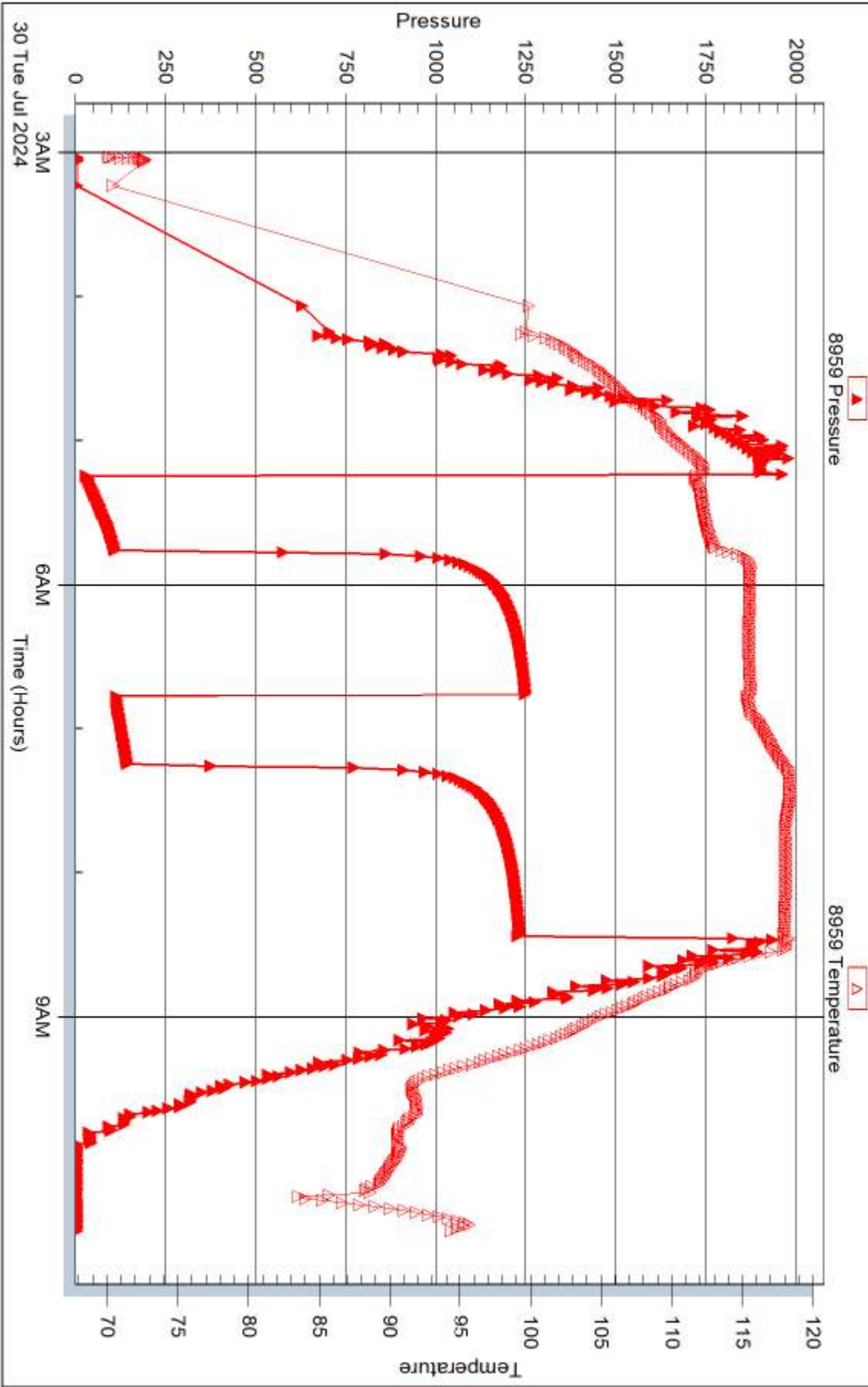
Inside

Murfin Drilling Co Inc

Weiss 'A' # 1-14

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
STE 300
Wichita, KS 67202

ATTN: Jeison Rodriguez

Weis ' A ' # 1-14

14-6S.-28W. Sheridan, KS

Start Date: 2024.07.31 @ 02:07:00

End Date: 2024.07.31 @ 09:15:00

Job Ticket #: 72176 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.08.02 @ 09:35:58

Murfin Drilling Co Inc

14-6S.-28W. Sheridan, KS

Weis ' A ' # 1-14

DST # 2

LKC " F - G "

2024.07.31



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
STE 300
Wichita, KS 67202
ATTN: Jeison Rodriguez

14-6S.-28W. Sheridan, KS

Weis 'A' # 1-14

Job Ticket: 72176

DST#: 2

Test Start: 2024.07.31 @ 02:07:00

GENERAL INFORMATION:

Formation: LKC " F - G "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:15:00

Time Test Ended: 09:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 3972.00 ft (KB) To 4010.00 ft (KB) (TVD)

Total Depth: 4010.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2735.00 ft (KB)

2730.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press@RunDepth: 76.85 psig @ 3973.00 ft (KB)

Start Date: 2024.07.31

End Date:

2024.07.31

Start Time: 02:07:01

End Time:

09:15:00

Capacity: 8000.00 psig

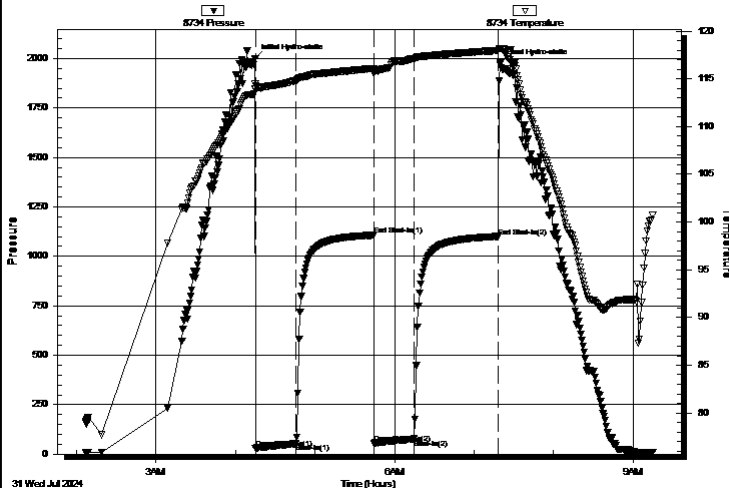
Last Calib.: 2024.07.31

Time On Btm: 2024.07.31 @ 04:14:50

Time Off Btm: 2024.07.31 @ 07:19:30

TEST COMMENT: 30-IF-Blow built to 3/4"
60-ISI-No return
30-FF-Blow built to 1/2"
60-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.10	114.43	Initial Hydro-static
1	30.02	113.90	Open To Flow (1)
31	52.62	114.84	Shut-In(1)
90	1107.45	116.10	End Shut-In(1)
90	54.77	115.54	Open To Flow (2)
120	76.85	117.12	Shut-In(2)
184	1100.84	117.96	End Shut-In(2)
185	1976.46	118.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	100% Mud	0.34
0.00	Oil spots in tool	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
STE 300
Wichita, KS 67202
ATTN: Jeison Rodriguez

14-6S.-28W. Sheridan, KS

Weis ' A ' # 1-14

Job Ticket: 72176

DST#: 2

Test Start: 2024.07.31 @ 02:07:00

GENERAL INFORMATION:

Formation: **LKC " F - G "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:15:00

Time Test Ended: 09:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 3972.00 ft (KB) To 4010.00 ft (KB) (TVD)

Total Depth: 4010.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2735.00 ft (KB)

2730.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 3973.00 ft (KB)

Start Date: 2024.07.31

End Date:

2024.07.31

Start Time: 02:07:01

End Time:

09:15:00

Capacity: 8000.00 psig

Last Calib.:

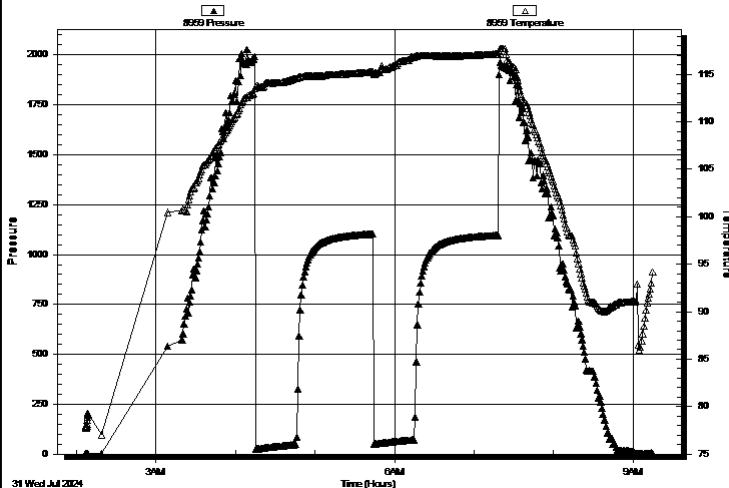
2024.07.31

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Blow built to 3/4"
60-ISI-No return
30-FF-Blow built to 1/2"
60-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
70.00	100% Mud	0.34
0.00	Oil spots in tool	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

14-6S.-28W. Sheridan,KS

250 N Water
STE 300
Wichita,KS 67202

ATTN: Jeison Rodriguez

Weis ' A ' # 1-14

Job Ticket: 72176

DST#: 2

Test Start: 2024.07.31 @ 02:07:00

Tool Information

Drill Pipe:	Length:	3781.00 ft	Diameter:	3.80 inches	Volume:	53.04 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:	25000.00 lb
Drill Collar:	Length:	178.00 ft	Diameter:	2.25 inches	Volume:	0.88 bbl	Weight to Pull Loose:	76000.00 lb
					Total Volume:	53.92 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight: Initial	67000.00 lb
Depth to Top Packer:		3972.00 ft					Final	70000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		38.00 ft						
Tool Length:		71.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		3940.00	
Shut In Tool	5.00		3945.00	
Hydraulic tool	5.00	1113	3950.00	
Jars	5.00	01-07	3955.00	
EM Tool	5.00		3960.00	
Safety Joint	3.00	-001	3963.00	
Packer	5.00		3968.00	33.00 Bottom Of Top Packer
Packer	4.00		3972.00	
Stubb	1.00		3973.00	
Recorder	0.00	8959 Inside	3973.00	
Recorder	0.00	8734 Outside	3973.00	
Perforations	32.00		4005.00	
Bullnose	5.00		4010.00	38.00 Bottom Packers & Anchor

Total Tool Length: 71.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

14-6S.-28W. Sheridan,KS

250 N Water
STE 300
Wichita,KS 67202

Weis ' A ' # 1-14

Job Ticket: 72176

DST#: 2

ATTN: Jeison Rodriguez

Test Start: 2024.07.31 @ 02:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 5.99 in³

Resistivity: ohm.m

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	100% Mud	0.344
0.00	Oil spots in tool	0.000

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

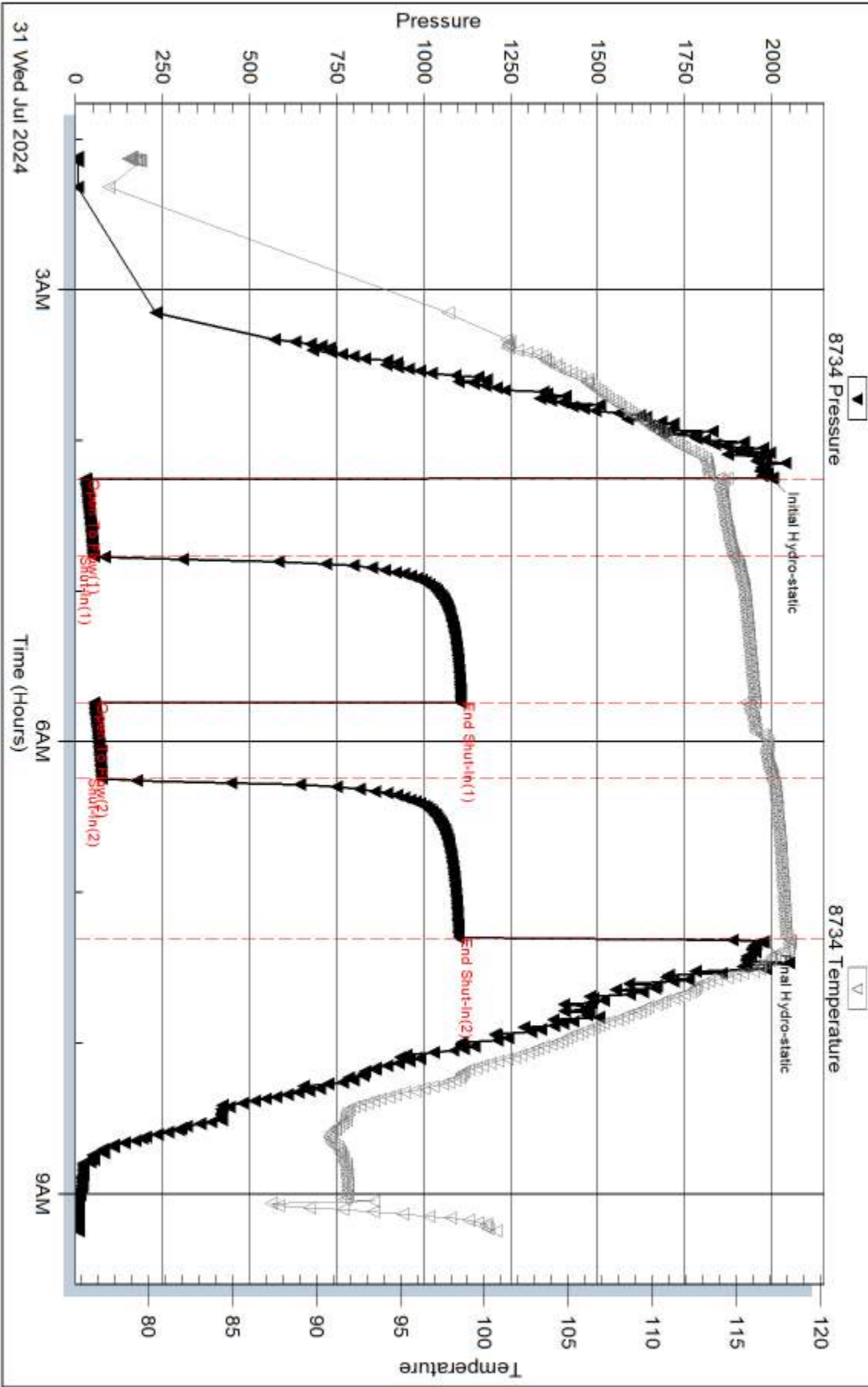
Serial #: 8734

Outside Murfin Drilling Co Inc

Weis' A' # 1-14

DST Test Number: 2

Pressure vs. Time



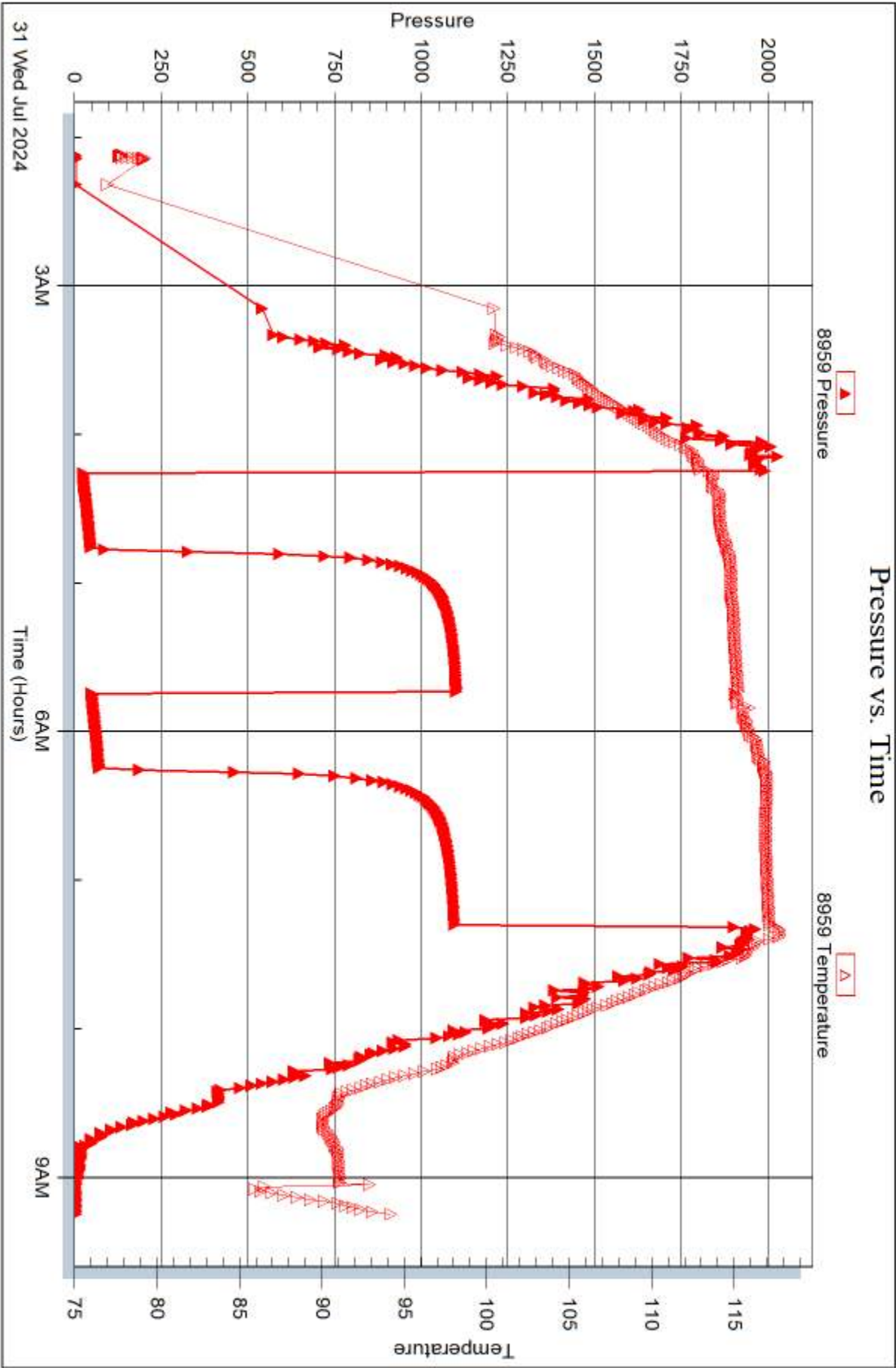
Serial #: 8959

Inside

Murfin Drilling Co Inc

Weiss 'A' # 1-14

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
STE 300
Wichita, KS 67202

ATTN: Jeison Rodriguez

Weis ' A ' # 1-14

14-6S.-28W. Sheridan, KS

Start Date: 2024.07.31 @ 23:02:00

End Date: 2024.08.01 @ 06:33:09

Job Ticket #: 72177 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.08.02 @ 09:35:14

Murfin Drilling Co Inc

14-6S.-28W. Sheridan, KS

Weis ' A ' # 1-14

DST # 3

LKC " H - J "

2024.07.31



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
STE 300
Wichita, KS 67202
ATTN: Jeison Rodriguez

14-6S.-28W. Sheridan, KS

Weis 'A' # 1-14

Job Ticket: 72177

DST#: 3

Test Start: 2024.07.31 @ 23:02:00

GENERAL INFORMATION:

Formation: LKC "H - J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:30

Time Test Ended: 06:33:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4018.00 ft (KB) To 4077.00 ft (KB) (TVD)

Total Depth: 4077.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2735.00 ft (KB)

2730.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press@RunDepth: 34.67 psig @ 4019.00 ft (KB)

Start Date: 2024.07.31

End Date:

2024.08.01

Start Time: 23:02:01

End Time:

06:33:10

Capacity: 8000.00 psig

Last Calib.: 2024.08.01

Time On Btm: 2024.08.01 @ 01:10:20

Time Off Btm: 2024.08.01 @ 04:16:09

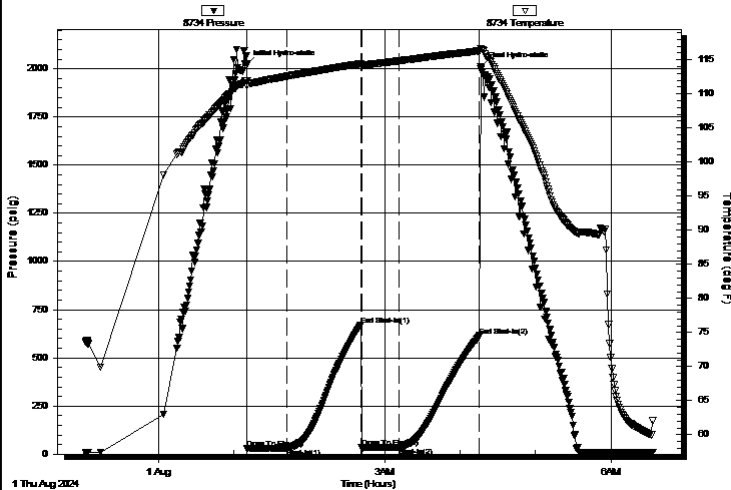
TEST COMMENT: 30-IF-Blow built to 3.4" & decreased to 1/2"

60-ISI-No return

30-FF-No blow

60-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2024.01	111.87	Initial Hydro-static
1	29.96	111.23	Open To Flow (1)
32	31.89	112.59	Shut-In(1)
91	670.99	114.41	End Shut-In(1)
91	32.95	114.15	Open To Flow (2)
121	34.67	114.84	Shut-In(2)
186	614.30	116.29	End Shut-In(2)
186	2008.99	116.67	Final Hydro-static

Recovery

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

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
STE 300
Wichita, KS 67202
ATTN: Jeison Rodriguez

14-6S.-28W. Sheridan, KS

Weis 'A' # 1-14

Job Ticket: 72177

DST#: 3

Test Start: 2024.07.31 @ 23:02:00

GENERAL INFORMATION:

Formation: LKC "H - J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:30

Time Test Ended: 06:33:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4018.00 ft (KB) To 4077.00 ft (KB) (TVD)

Total Depth: 4077.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2735.00 ft (KB)

2730.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4019.00 ft (KB)

Start Date: 2024.07.31

End Date:

2024.08.01

Start Time: 23:02:01

End Time:

06:33:00

Capacity: 8000.00 psig

Last Calib.:

2024.08.01

Time On Btm:

Time Off Btm:

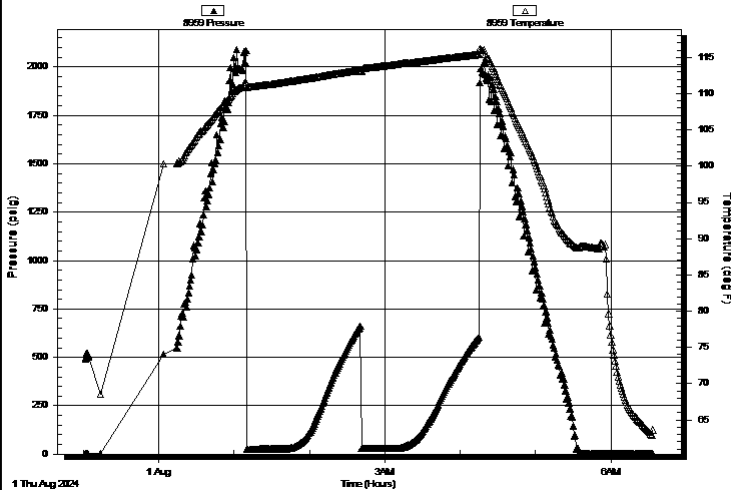
TEST COMMENT: 30-IF-Blow built to 3.4" & decreased to 1/2"

60-ISI-No return

30-FF-No blow

60-FSI-No return

Pressure vs. Time



PRESSURE SUMMARY

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

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

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

14-6S.-28W. Sheridan,KS

250 N Water
STE 300
Wichita,KS 67202

ATTN: Jeison Rodriguez

Weis ' A ' # 1-14

Job Ticket: 72177

DST#: 3

Test Start: 2024.07.31 @ 23:02:00

Tool Information

Drill Pipe:	Length:	3812.00 ft	Diameter:	3.80 inches	Volume:	53.47 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:	178.00 ft	Diameter:	2.25 inches	Volume:	0.88 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	54.35 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		5.00 ft					String Weight: Initial	66000.00 lb
Depth to Top Packer:		4018.00 ft					Final	66000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		59.00 ft						
Tool Length:		92.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		3986.00	
Shut In Tool	5.00		3991.00	
Hydraulic tool	5.00	1113	3996.00	
Jars	5.00	01-07	4001.00	
EM Tool	5.00		4006.00	
Safety Joint	3.00	-001	4009.00	
Packer	5.00		4014.00	33.00 Bottom Of Top Packer
Packer	4.00		4018.00	
Stubb	1.00		4019.00	
Recorder	0.00	8959 Inside	4019.00	
Recorder	0.00	8734 Outside	4019.00	
Perforations	19.00		4038.00	
Change Over Sub	1.00		4039.00	
Drill Pipe	32.00		4071.00	
Change Over Sub	1.00		4072.00	
Bullnose	5.00		4077.00	59.00 Bottom Packers & Anchor
Total Tool Length:	92.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

14-6S.-28W. Sheridan,KS

250 N Water
STE 300
Wichita,KS 67202
ATTN: Jeison Rodriguez

Weis ' A ' # 1-14

Job Ticket: 72177

DST#: 3

Test Start: 2024.07.31 @ 23:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

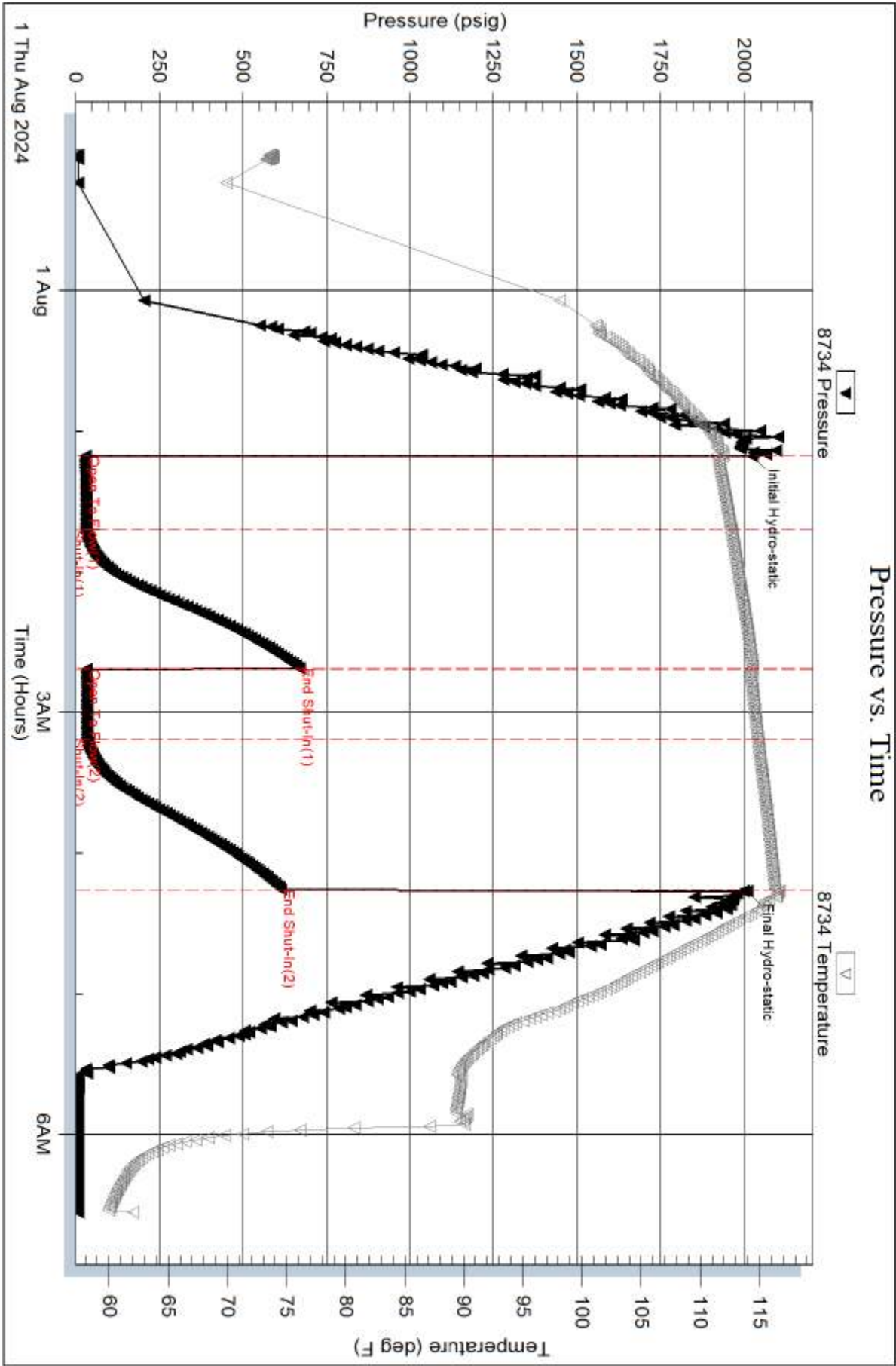
Recovery Comments:

Serial #: 8734

Outside Murfin Drilling Co Inc

Weis' A' # 1-14

DST Test Number: 3



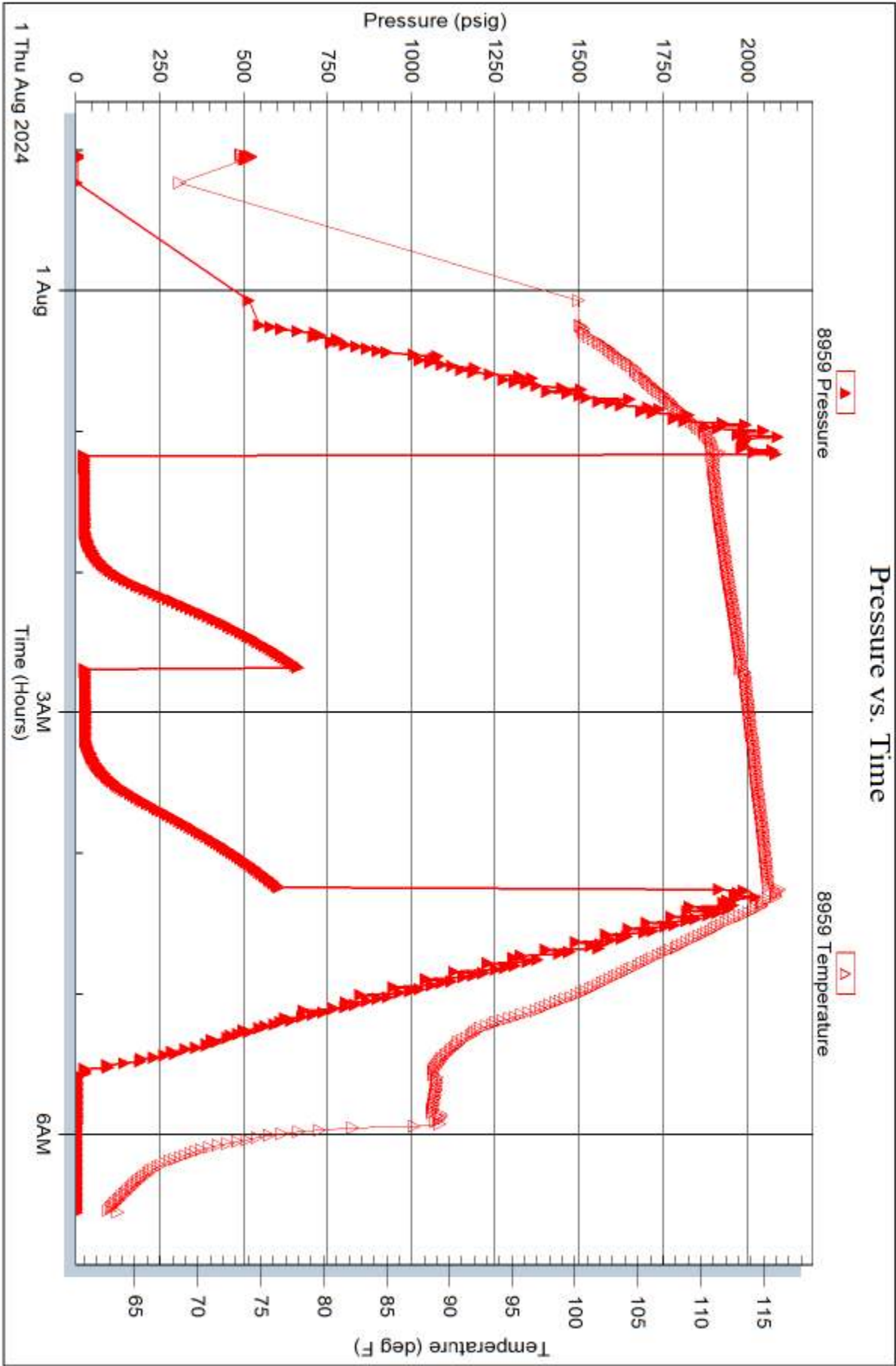
Serial #: 8959

Inside

Murfin Drilling Co Inc

Weiss 'A' # 1-14

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71825**

Well Name & No. Weis 'A' #1-14 Test No. 1 Date 7-30-24
Company Murfin Drilling Co. LLC Elevation 2735 KB 2730 GL
Address 250 N. Water, STE 300, Wichita, KS 67202
Co. Rep / Geo Seison Rodriguez Rig Murfin #8
Location: Sec. 14 Twp 6S Rge. 28W Co. Sheldahl State KS

Interval Tested 3870 - 3940 Zone Tested Toronto - LKC "B"
Anchor Length 70' Drill Pipe Run 3687 Mud Wt. 9.1
Top Packer Depth 3865 Drill Collars Run 178 Vis 59
Bottom Packer Depth 3870 Wt. Pipe Run — WL 6.0
Total Depth 3940 Chlorides 700 ppm System LCM 4#

Blow Description IF - Blow built to 5 1/2"

IOF - No return.

FF - Blow built to 5"

FST - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>240</u>	<u>HMCW</u>		<u>70</u>	<u>30</u>	
<u>20</u>	<u>Mud w/oil spots.</u>			<u>100</u>	
<u>0</u>	<u>Oil spots in tool</u>				

Rec Total 260 BHT 119 Gravity — API RW 493 @ 72.5 °F Chlorides 13,500 ppm

Initial Hydrostatic 1942 ☒ Test 1800 ☐ Ruined Shale Packer
Initial Flow 35 to 113 ☒ Jars 300 ☐ Ruined Packer
Initial Shut-In 1256 ☐ Circ Sub ☒ Hotel
Final Flow 119 to 150 ☐ Hourly Standby ☒ TEM Tool Successful
Final Shut-In 1239 ☒ Mileage 41 RT F/Oberlin 71.75 ☐ Accessibility
Final Hydrostatic 1924 ☐ Sampler ☐ Gas Sample

T- On Location 02:15 ☐ Straddle ☐ Oversized Hole
Initial Flow 30 T-Started 03:02 ☐ Shale Packer ☐ Sub Total 0
Initial Shut-In 60 T-Open 05:14 ☐ Extra Packer ☐ Total 2171.75
Final Flow 30 T-Pulled 08:14 ☐ Extra Recorder ☐ Tool Loaded @
Final Shut-In 60 T-Out 10:28 ☐ Day Standby ☐ MP/DST Disc't

Comments Pulled 22K over SNWT coming off bottom

Approved By _____ Our Representative Golden Salmer

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **72176**

Well Name & No. Weis 'A' #1-14 Test No. 2 Date 7-31-24
Company Murfin Drilling Co INC Elevation 2735 KB 2730 GL
Address 250 N. Water STE 300 Wichita, KS 67202
Co. Rep / Geo Jason Rodriguez Rig Murfin #8
Location: Sec. 14 Twp 6S. Rge. 28W. Co. Sheridan State KS.

Interval Tested 3972 - 4010 Zone Tested LKC 'F' - LKC 'G'
Anchor Length 38' Drill Pipe Run 3781 Mud Wt. 9.1
Top Packer Depth 3967 Drill Collars Run 178 Vis 56
Bottom Packer Depth 3972 Wt. Pipe Run — WL 6.0
Total Depth 4010 Chlorides 700 ppm System LCM 4#
Blow Description IF - Blow built to 3/4"
ISI - No return.
FF - Blow built to 1/2"
ESI - No return

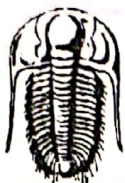
Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Mud</u>			<u>100</u>	
<u>0</u>	<u>Oil spots in tool</u>				

Rec Total 70 BHT 118 Gravity — API RW — @ — °F Chlorides — ppm
Initial Hydrostatic 1998 ☒ Test 1950 ☐ Ruined Shale Packer —
Initial Flow 30 to 53 ☒ Jars 300 ☐ Ruined Packer —
Initial Shut-In 1107 ☐ Circ Sub — ☒ Hotel —
Final Flow 55 to 77 ☐ Hourly Standby — ☒ EM Tool Successful -175
Final Shut-In 1101 ☒ Mileage 41 RT 71.75 ☐ Accessibility —
Final Hydrostatic ~~1976~~ 1976 ☐ Sampler — ☐ Gas Sample —
T- On Location 02:00 ☐ Straddle — ☐ Oversized Hole —
Initial Flow 30 T-Started 02:07 ☐ Shale Packer — ☐ Sub Total -175
Initial Shut-In 60 T-Open 04:15 ☐ Extra Packer — ☐ Total 2146.75
Final Flow 30 T-Pulled 07:15 ☐ Extra Recorder — ☐ Tool Loaded — @ —
Final Shut-In 60 T-Out 09:15 ☐ Day Standby — ☐ MP/DST Disc't —

Comments —

Approved By — Our Representative Matthew Solari

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **72177**

Well Name & No. Weis 'A' #1-14 Test No. 3 Date 7-31-24
Company Murfin Drilling Co Inc. Elevation 2735 KB 2730 GL
Address 250 N. Water STE 300 Wichita, KS 67202.
Co. Rep / Geo Eison Rodriguez Rig Murfin #8
Location: Sec. 14 Twp 6S. Rge. 28W. Co. Sheridan State KS

Interval Tested 4018 - 4077 Zone Tested LKC "H" - J"
Anchor Length 59' Drill Pipe Run 3812 Mud Wt. 9.2
Top Packer Depth 4013 Drill Collars Run 178 Vis 58
Bottom Packer Depth 4018 Wt. Pipe Run — WL 6.4
Total Depth 4077 Chlorides 1000 ppm System LCM 4H
Blow Description IF - Blow built to 3/4" + decreased to 1/2"

ISI - No return.

FF - No blow

FSE - No return.

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

Rec Total S BHT 117 Gravity — API RW — @ — °F Chlorides — ppm
Initial Hydrostatic 2024 ☒ Test 1950 ☐ Ruined Shale Packer
Initial Flow 30 to 32 ☒ Jars 300 ☐ Ruined Packer
Initial Shut-In 671 ☐ Circ Sub ☒ Hotel
Final Flow 33 to 35 ☐ Hourly Standby ☒ EM Tool Successful
Final Shut-In 614 ☒ Mileage 41RT 71.75 ☐ Accessibility
Final Hydrostatic 2009 ☐ Sampler ☐ Gas Sample
T-On Location 22:15 ☐ Straddle ☐ Oversized Hole
Initial Flow 30 T-Started 23:02 ☐ Shale Packer ☐ Sub Total 0
Initial Shut-In 60 T-Open 01:11 ☐ Extra Packer ☐ Total 2321.75
Final Flow 30 T-Pulled 04:11 ☐ Extra Recorder ☒ Tool Loaded 8-1 @ 07:00
Final Shut-In 60 T-Out 06:33 ☐ Day Standby ☐ MP/DST Disc't
Comments

Approved By _____ Our Representative Marta Johns

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

MDCI
Weis 'A' #1-14
2135'FNL 330'FWL
Sec. 14-T6S-R28W
KB: 2735

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
SC	2495	+240	+3	2490	+245	+8
B SC	2526	+209	+6	2522	+213	+10
TOPEKA	3682	-947	+5	3676	-941	+11
DEER CR	3731	-996	+6	3726	-991	+11
LECOMP	3799	-1064	+6	3799	-1064	+6
OREAD	3833	-1098	+5	3832	-1097	+6
HEEBNER	3873	-1138	+3	3868	-1133	+8
TORONTO	3896	-1161	+6	3897	-1162	+5
LANSING	3914	-1179	+5	3914	-1179	+5
LKC B	3945	-1210	+4	3941	-1206	+8
LKC D	3963	-1228	+6	3953	-1218	+16
LKC F	3984	-1249	+5	3984	-1249	+5
LKC G	4001	-1266	+4	3999	-1264	+6
LKC H	4031	-1296	+4	4032	-1297	+3
LKC J	4075	-1340	-4	4065	-1330	+6
STARK	4076	-1341	+5	4074	-1339	+7
LKC K	4089	-1354	+5	4094	-1359	0
LKC L	4108	-1373	+5	4108	-1373	+5
MOUND CITY	4118	-1383	+4	4120	-1385	+2
RTD	4200					
LTD				4193		



**CEMENT TREATMENT REPORT**

Customer:	MURFIN DRILLING	Well:	WEIS A 1-14	Ticket:	WP 5615
City, State:	OAKLEY/KS	County:	SHERIDAN,KS	Date:	8/2/2024
Field Rep:	JASON TP RIG 8	S-T-R:	SEC.14-6S-28W	Service:	PTA

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-PLUG A	Blend:	
Hole Depth:	4200 ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size:	4 1/2 in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	2525 ft	Yield:	1.42 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0406 bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	2525 ft	Depth:	ft
Tool / Packer:		Annular Volume:	102.5 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	bbls	Total Slurry:	64.4 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	255 sx	Total Sacks:	0 sx
TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS

8:00 AM			-		ARRIVE ON LOCATION
8:05 AM					RIG UP SAFETY MEETING
8:42 AM	3.0	140.0	5.0		5BBL FW SPACER
8:45 AM	4.0	140.0	12.6		CMT H-PLUG A (50 SKS)@ 2525FT
8:51 AM	3.0	120.0	5.0		5BBL FW SPACER BEHIDE
9:04 AM					RIG DISPLACEMENT MUD 2.0 MINS
9:06 AM					DONE PLUG 1
9:36 AM	3.0	100.0	5.0		5 BBL FW SPACER
9:40 AM	5.0	110.0	25.2		CMT H-PLUG A (100 SKS) 25.2BBL PPG@13.8 1600FT
9:56 AM	3.0	80.0	13.0		PUMP DISPLACEMENT 13.0BBL
10:04 AM					DONE PLUG 2
10:48 AM	3.0	80.0	5.0		5 BBL FW SPACER
10:54 AM	3.0	80.0	12.6		CMT H-PLUG A (50 SKS)@ 325FT 12.6BBL
11:04 AM	1.5	60.0			PUMP DISPLACEMENT 1.0 BBL
11:06 AM					DONE PLUG 3
11:25 AM	1.5	40.0	2.5		CMT H-PLUG A (10 SKS) 2.5 BBL @ 40FT
11:32 AM	1.5	40.0	3.7		MOUSE HOLE (15 SKS) 3.7BBL
11:38	1.5	60.0	7.5		RAT HOLE (30 SKS)7.5BBL
11:45 AM					DONE
11:46 AM					WASH UP CMT PUMP
11:50 AM					RIG DOWN
12:10 PM					DEPART LOCATION

CREW		UNIT	SUMMARY		
Cementer:	ROGER GASTON	945	Average Rate	Average Pressure	Total Fluid
Pump Operator:	MACK F	537-520	2.8 bpm	88 psi	97 bbls
Bulk #1:	ANGLO P	205			
Bulk #2:					