

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

Form	ACO1 - Well Completion
Operator	Thomas Garner, Inc.
Well Name	TOMMY 1
Doc ID	1713017

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	12.25	8.625	23	437	60/40 Poz	450	2% Gel 3%CC
Production	7.875	5.50	15.5	4412	H-Long	190	NA



DRILL STEM TEST REPORT

Prepared For: **Thomas Garner, Inc.**

305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

Tommy #1

17-25s-13w Stafford,KS

Start Date: 2023.01.20 @ 11:24:00

End Date: 2023.01.20 @ 19:42:02

Job Ticket #: 69275 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.01.25 @ 14:43:01



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

17-25s-13w Stafford,KS

Tommy #1

Job Ticket: 69275

DST#: 1

Test Start: 2023.01.20 @ 11:24:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:09:02

Time Test Ended: 19:42:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3954.00 ft (KB) To 3974.00 ft (KB) (TVD)

Total Depth: 3974.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1968.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press@RunDepth: 203.59 psig @ 3956.00 ft (KB)

Start Date: 2023.01.20

End Date:

2023.01.20

Start Time: 11:24:01

End Time:

19:42:02

Capacity: psig

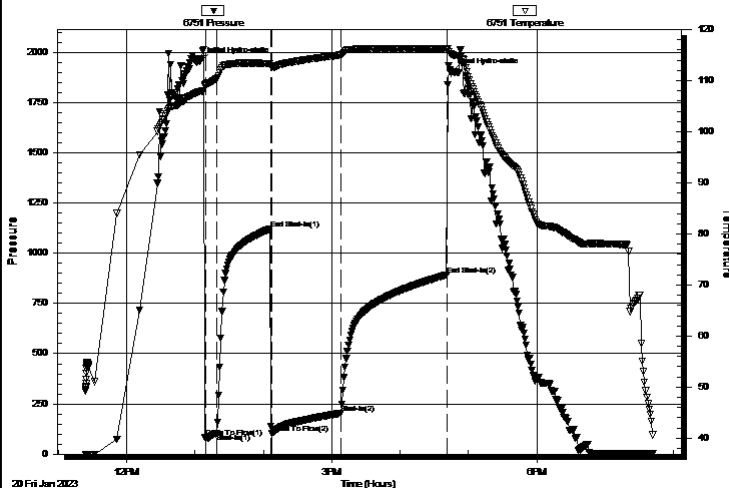
Last Calib.: 1899.12.30

Time On Btm: 2023.01.20 @ 13:04:32

Time Off Btm: 2023.01.20 @ 16:44:32

TEST COMMENT: IF: 10 min., BOB 30 sec., strong building blow, 322 inches
IS: 45 min., blow back 3 min., 2 inches
FF: 60 min., BOB ASAO, GTS 20 min., strong building blow
FS: 90 min., blow back 30 sec., BOB 60 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.16	107.85	Initial Hydro-static
5	83.91	109.11	Open To Flow (1)
15	104.34	110.34	Shut-In(1)
62	1120.01	113.33	End Shut-In(1)
63	101.67	112.74	Open To Flow (2)
124	203.59	115.01	Shut-In(2)
217	892.40	116.13	End Shut-In(2)
220	1899.52	115.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
720.00	gassy oil 20%G, 80%O	8.19

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.43
Last Gas Rate	0.13	1.00	5.43
Max. Gas Rate	0.13	1.00	5.43



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DRILL STEM TEST REPORT

Thomas Garner, Inc.

305 E 7th Ave
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Tommy #1

Job Ticket: 69275

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Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3954.00 ft (KB) To 3974.00 ft (KB) (TVD)

Total Depth: 3974.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1968.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6752 Inside

Press@RunDepth: psig @ 3956.00 ft (KB)

Start Date: 2023.01.20

End Date:

2023.01.20

Start Time: 11:24:01

End Time:

19:44:02

Capacity: psig

Last Calib.:

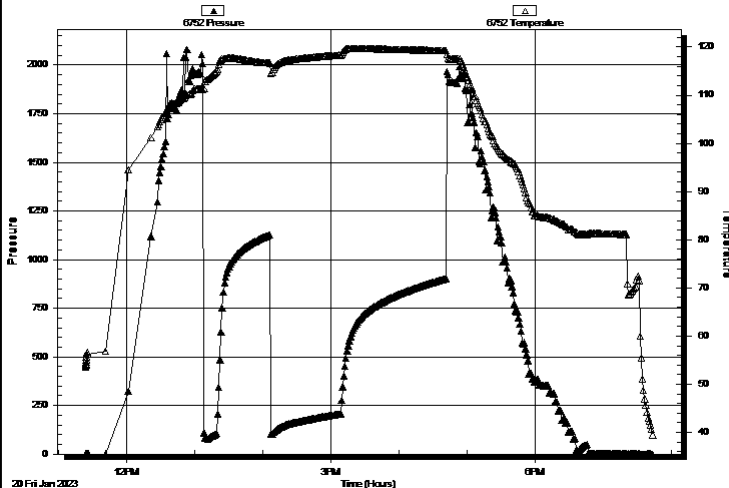
1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 10 min., BOB 30 sec., strong building blow, 322 inches
IS: 45 min., blow back 3 min., 2 inches
FF: 60 min., BOB ASAO, GTS 20 min., strong building blow
FS: 90 min., blow back 30 sec., BOB 60 min.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
720.00	gassy oil 20%G, 80%O	8.19

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.43
Last Gas Rate	0.13	1.00	5.43
Max. Gas Rate	0.13	1.00	5.43



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner, Inc.

17-25s-13w Stafford,KS

305 E 7th Ave
St. John, KS 67576

Tommy #1

Job Ticket: 69275

DST#: 1

ATTN: Keith Reavis

Test Start: 2023.01.20 @ 11:24:00

Tool Information

Drill Pipe:	Length:	3730.00 ft	Diameter:	3.80 inches	Volume:	52.32 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	210.00 ft	Diameter:	2.25 inches	Volume:	1.03 bbl	Weight to Pull Loose:	75000.00 lb
					Total Volume:	53.35 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		16.00 ft					String Weight: Initial	67000.00 lb
Depth to Top Packer:		3954.00 ft					Final	69000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		20.00 ft						
Tool Length:		50.00 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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Shut In Tool	5.00			3929.00	
Hydraulic tool	5.00			3934.00	
Isolator Sub	3.00			3937.00	
Jars	5.00			3942.00	
Safety Joint	3.00			3945.00	
Packer	5.00			3950.00	30.00 Bottom Of Top Packer
Packer	4.00			3954.00	
Stubb	1.00			3955.00	
Perforations	1.00			3956.00	
Recorder	0.00	6752	Inside	3956.00	
Recorder	0.00	6751	Outside	3956.00	
Pickup sub perf	5.00			3961.00	
Perforations	10.00			3971.00	
Bullnose	3.00			3974.00	20.00 Bottom Packers & Anchor

Total Tool Length: 50.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner, Inc.

17-25s-13w Stafford,KS

305 E 7th Ave
St. John, KS 67576

Tommy #1

Job Ticket: 69275

DST#: 1

ATTN: Keith Reavis

Test Start: 2023.01.20 @ 11:24:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

21 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
720.00	gassy oil 20%G, 80%O	8.187

Total Length: 720.00 ft Total Volume: 8.187 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

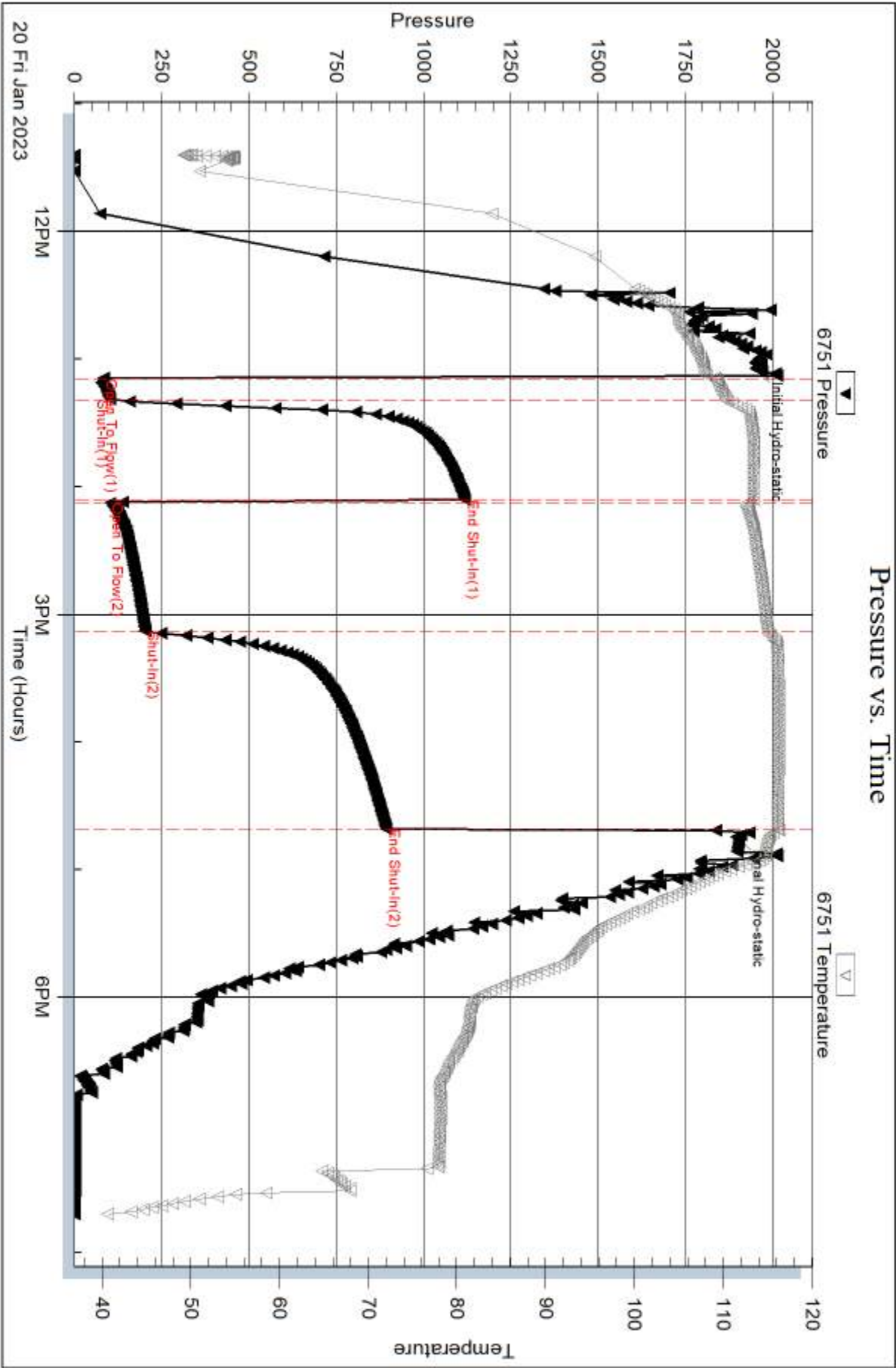
Recovery Comments: API=19@40F=21

Serial #: 6751

Outside Thomas Garner, Inc.

Tommy #1

DST Test Number: 1



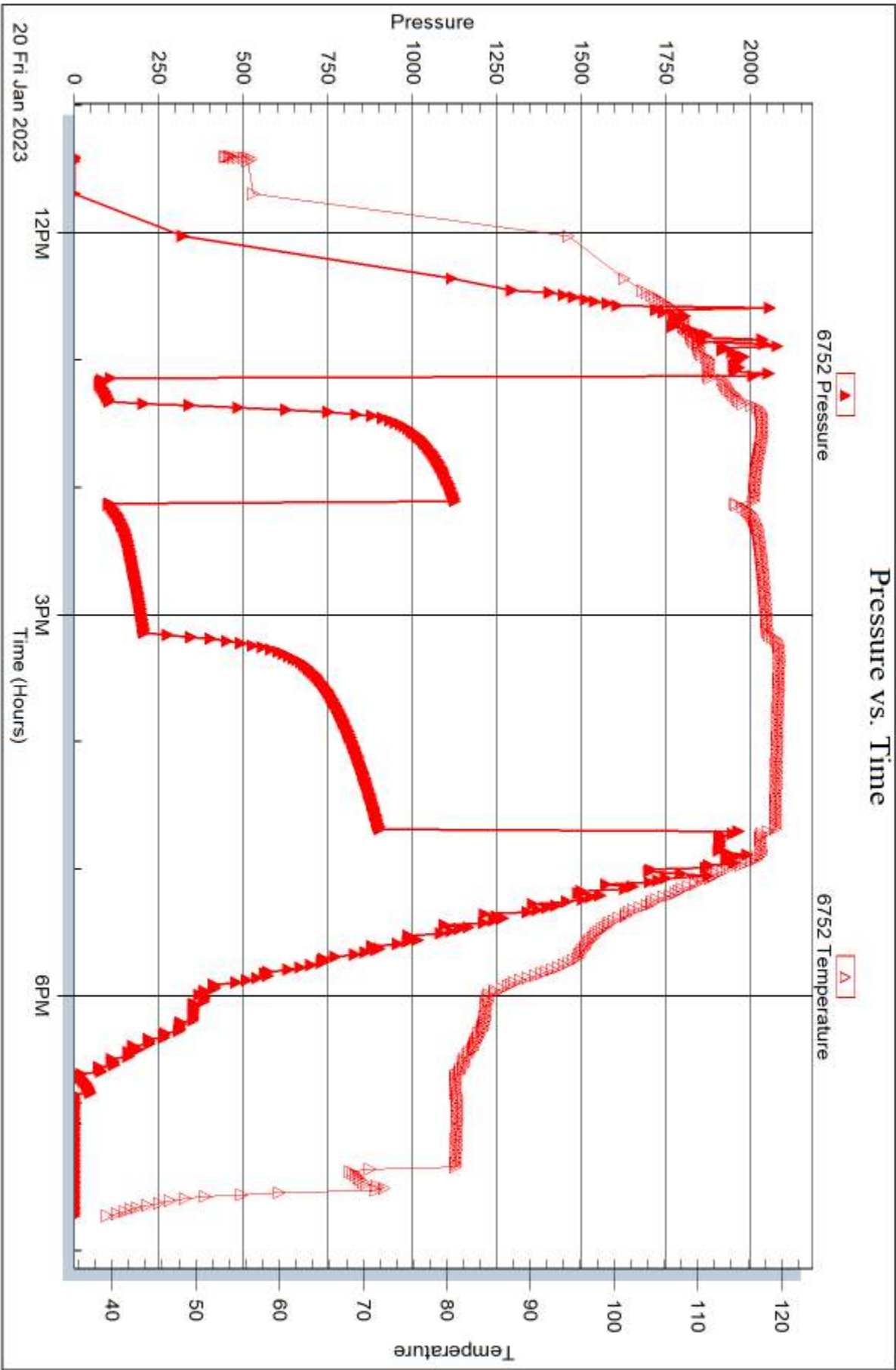
Serial #: 6752

Inside

Thomas Garner, Inc.

Tommy #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Thomas Garner, Inc.**

305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

Tommy #1

17-25s-13w Stafford,KS

Start Date: 2023.01.22 @ 01:08:00

End Date: 2023.01.22 @ 08:12:02

Job Ticket #: 70576 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.01.25 @ 14:29:28

Thomas Garner, Inc.

17-25s-13w Stafford,KS

Tommy #1

DST # 2

Simpson Sand

2023.01.22



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

17-25s-13w Stafford,KS

Tommy #1

Job Ticket: 70576

DST#: 2

Test Start: 2023.01.22 @ 01:08:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:08:32

Time Test Ended: 08:12:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4258.00 ft (KB) To 4278.00 ft (KB) (TVD)

Total Depth: 4278.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1968.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6752 Inside

Press@RunDepth: 29.38 psig @ 4260.00 ft (KB)

Start Date: 2023.01.22

End Date:

2023.01.22

Start Time: 01:08:01

End Time:

08:12:02

Capacity: psig

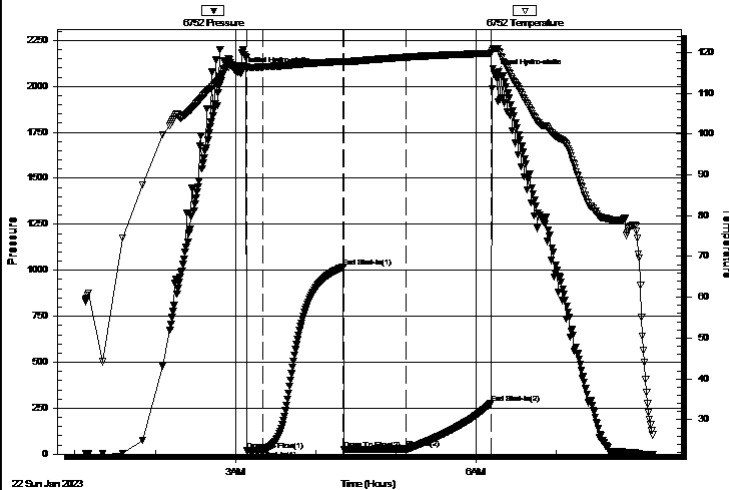
Last Calib.: 2023.01.22

Time On Btm: 2023.01.22 @ 03:04:32

Time Off Btm: 2023.01.22 @ 06:13:32

TEST COMMENT: IF: 10 min., weak surface blow, .25 inches
IS: 45 min., no blow back
FF: 45 min., weak surface blow, 2.5 inches
FS: 60 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.05	116.61	Initial Hydro-static
4	21.63	116.19	Open To Flow (1)
16	22.67	116.44	Shut-In(1)
76	1016.46	117.79	End Shut-In(1)
77	26.34	117.56	Open To Flow (2)
123	29.38	118.83	Shut-In(2)
187	278.06	119.82	End Shut-In(2)
189	2068.42	120.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	oil spotted mud 1%O,99%M	0.05

Gas Rates

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

DRILL STEM TEST REPORT

Thomas Garner, Inc.

305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

17-25s-13w Stafford, KS

Tommy #1

Job Ticket: 70576

DST#: 2

Test Start: 2023.01.22 @ 01:08:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:08:32

Time Test Ended: 08:12:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4258.00 ft (KB) To 4278.00 ft (KB) (TVD)

Total Depth: 4278.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1968.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 4260.00 ft (KB)

Start Date: 2023.01.22

End Date:

2023.01.22

Start Time: 01:08:01

End Time:

08:12:02

Capacity: psig

Last Calib.:

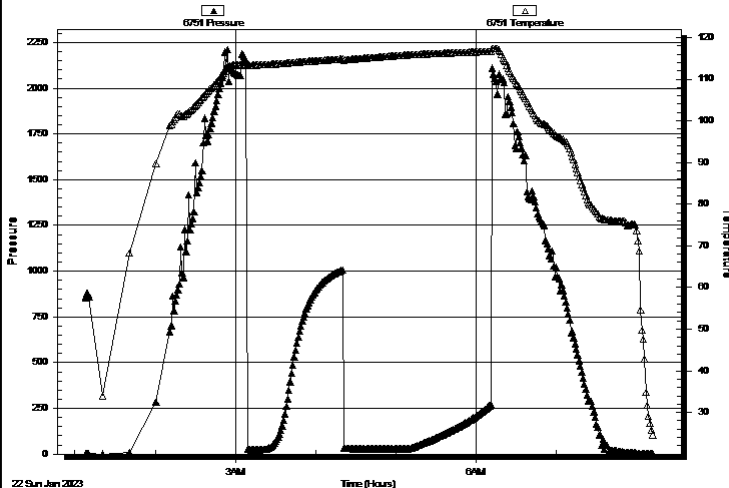
1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 10 min., weak surface blow, .25 inches
IS: 45 min., no blow back
FF: 45 min., weak surface blow, 2.5 inches
FS: 60 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
10.00	oil spotted mud 1%O,99%M	0.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner, Inc.

17-25s-13w Stafford,KS

305 E 7th Ave
St. John, KS 67576

Tommy #1

Job Ticket: 70576

DST#: 2

ATTN: Keith Reavis

Test Start: 2023.01.22 @ 01:08:00

Tool Information

Drill Pipe:	Length:	4022.00 ft	Diameter:	3.80 inches	Volume:	56.42 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	210.00 ft	Diameter:	2.25 inches	Volume:	1.03 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	57.45 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		4.00 ft					String Weight: Initial	70000.00 lb
Depth to Top Packer:		4258.00 ft					Final	70000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		20.00 ft						
Tool Length:		50.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

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

Shut In Tool	5.00			4233.00		
Hydraulic tool	5.00			4238.00		
Isolator Sub	3.00			4241.00		
Jars	5.00			4246.00		
Safety Joint	3.00			4249.00		
Packer	5.00			4254.00	30.00	Bottom Of Top Packer
Packer	4.00			4258.00		
Stubb	1.00			4259.00		
Perforations	1.00			4260.00		
Recorder	0.00	6752	Inside	4260.00		
Recorder	0.00	6751	Outside	4260.00		
Pickup sub perf	5.00			4265.00		
Perforations	10.00			4275.00		
Bullnose	3.00			4278.00	20.00	Bottom Packers & Anchor

Total Tool Length: 50.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner, Inc.

17-25s-13w Stafford,KS

305 E 7th Ave
St. John, KS 67576

Tommy #1

Job Ticket: 70576

DST#: 2

ATTN: Keith Reavis

Test Start: 2023.01.22 @ 01:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	oil spotted mud 1%O,99%M	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6752

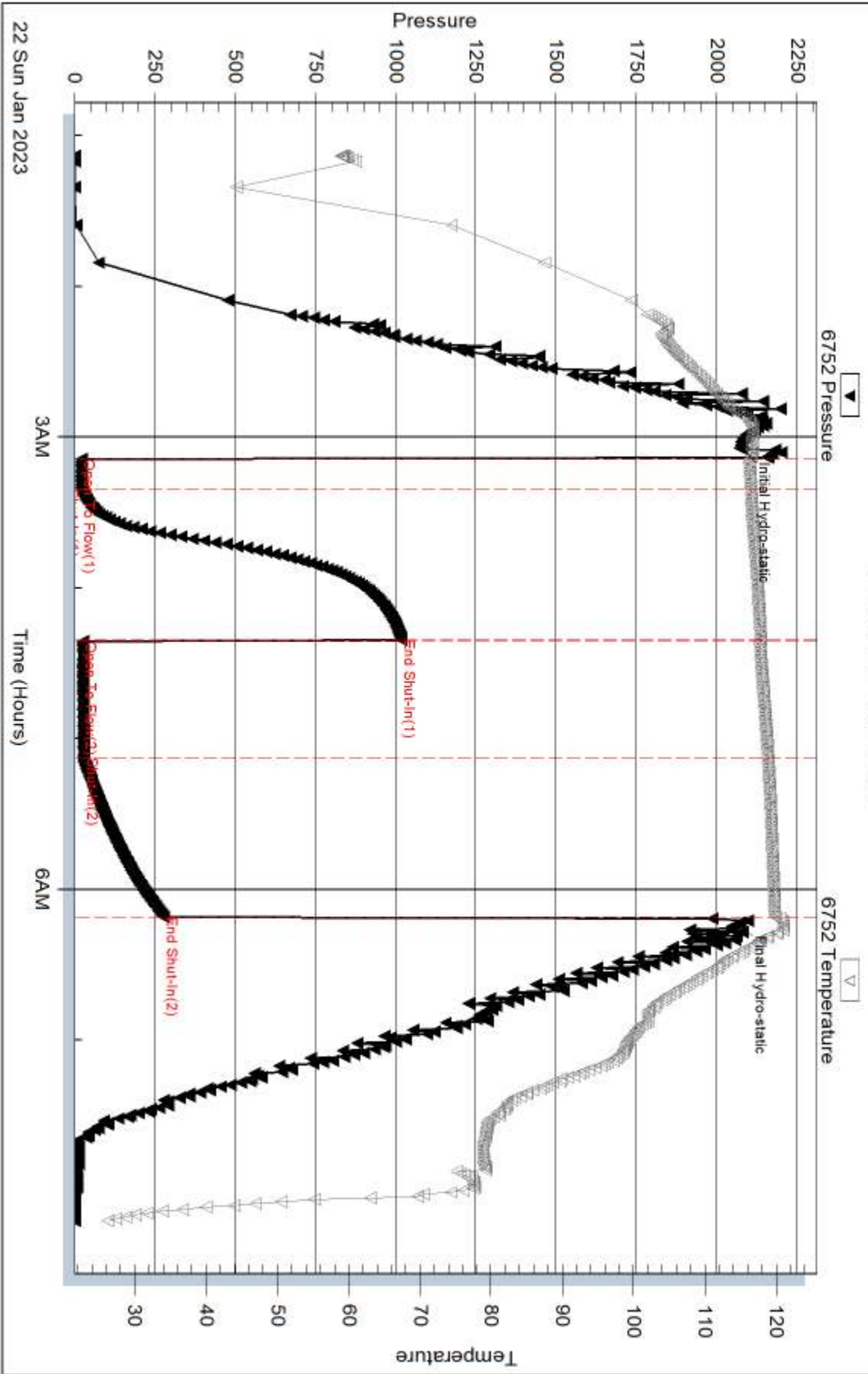
Inside

Thomas Garner, Inc.

Tommy #1

DST Test Number: 2

Pressure vs. Time

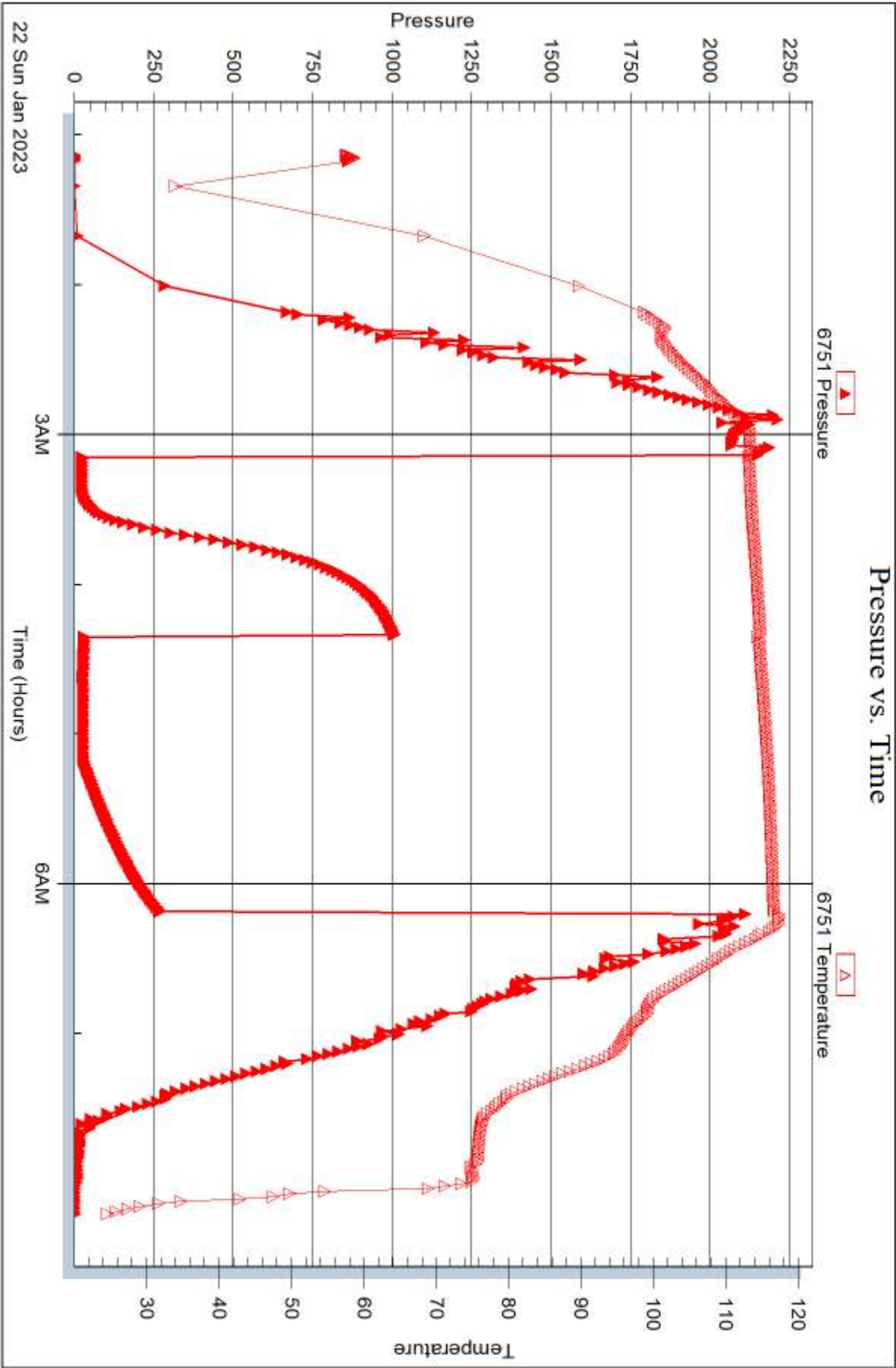


Serial #: 6751

Outside Thomas Garner, Inc.

Tommy #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Thomas Garner, Inc.**

305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

Tommy #1

17-25s-13w Stafford,KS

Start Date: 2023.01.22 @ 18:15:00

End Date: 2023.01.23 @ 02:03:02

Job Ticket #: 70577 DST #: 3

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

Printed: 2023.01.25 @ 14:26:49



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

17-25s-13w Stafford,KS

Tommy #1

Job Ticket: 70577

DST#: 3

Test Start: 2023.01.22 @ 18:15:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:38:47

Time Test Ended: 02:03:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4266.00 ft (KB) To 4302.00 ft (KB) (TVD)

Total Depth: 4302.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1968.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press@RunDepth: 267.86 psig @ 4268.00 ft (KB)

Start Date: 2023.01.22

End Date:

2023.01.23

Start Time: 18:15:01

End Time:

02:03:02

Capacity: psig

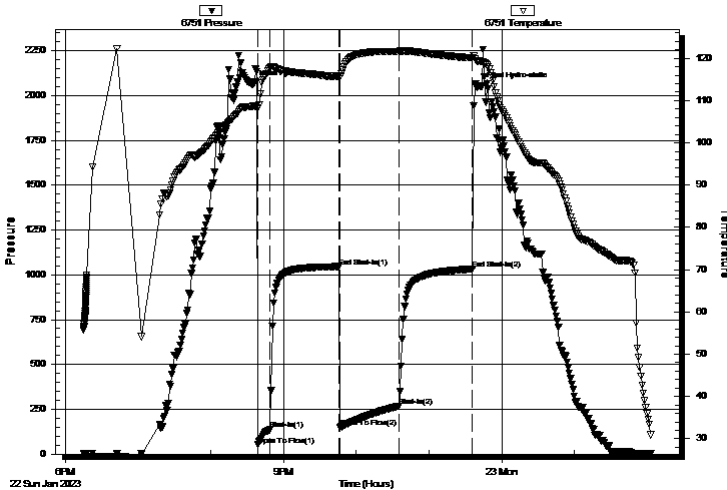
Last Calib.: 1899.12.30

Time On Btm: 2023.01.22 @ 20:34:47

Time Off Btm: 2023.01.22 @ 23:41:47

TEST COMMENT: IF: 10 min., strong building blow, 11.5 inches
IS: 60 min., no blow back
FF: 45 min., BOB 13 min., strong building blow, 28 inches
FS: 60 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2061.25	108.62	Initial Hydro-static
5	51.54	108.18	Open To Flow (1)
14	136.15	117.82	Shut-In(1)
72	1046.13	115.72	End Shut-In(1)
72	148.49	115.72	Open To Flow (2)
121	267.86	121.64	Shut-In(2)
181	1032.36	120.08	End Shut-In(2)
187	2051.51	119.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
520.00	muddy water 5%M,95%W	5.37

Gas Rates

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

DRILL STEM TEST REPORT

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305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

17-25s-13w Stafford,KS

Tommy #1

Job Ticket: 70577

DST#: 3

Test Start: 2023.01.22 @ 18:15:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:38:47

Time Test Ended: 02:03:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4266.00 ft (KB) To 4302.00 ft (KB) (TVD)

Total Depth: 4302.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1968.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6752 Inside

Press@RunDepth: psig @ 4268.00 ft (KB)

Start Date: 2023.01.22

End Date:

2023.01.23

Start Time: 18:15:01

End Time:

02:03:02

Capacity: psig

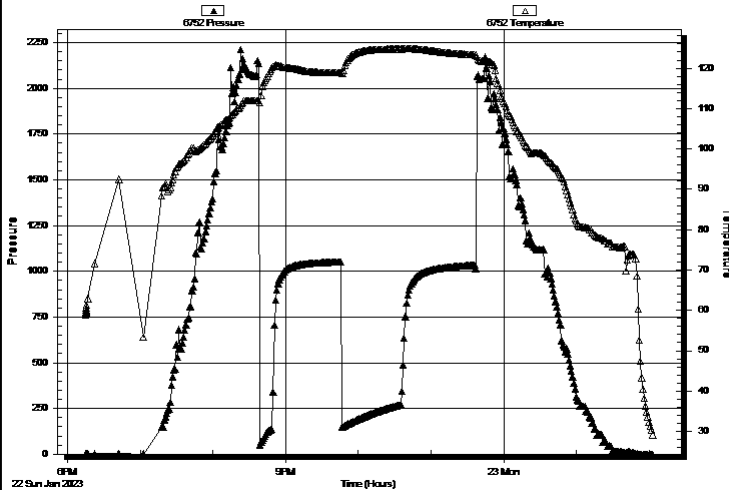
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 10 min., strong building blow , 11.5 inches
IS: 60 min., no blow back
FF: 45 min., BOB 13 min., strong building blow , 28 inches
FS: 60 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
520.00	muddy water 5%M,95%W	5.37

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner, Inc.

17-25s-13w Stafford,KS

305 E 7th Ave
St. John, KS 67576

Tommy #1

Job Ticket: 70577

DST#: 3

ATTN: Keith Reavis

Test Start: 2023.01.22 @ 18:15:00

Tool Information

Drill Pipe:	Length: 4047.00 ft	Diameter: 3.80 inches	Volume: 56.77 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 211.00 ft	Diameter: 2.25 inches	Volume: 1.04 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	57.81 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4266.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	66.00 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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Shut In Tool	5.00			4241.00	
Hydraulic tool	5.00			4246.00	
Isolator Sub	3.00			4249.00	
Jars	5.00			4254.00	
Safety Joint	3.00			4257.00	
Packer	5.00			4262.00	30.00 Bottom Of Top Packer
Packer	4.00			4266.00	
Stubb	1.00			4267.00	
Perforations	1.00			4268.00	
Recorder	0.00	6752	Inside	4268.00	
Recorder	0.00	6751	Outside	4268.00	
Pickup sub perf	5.00			4273.00	
Perforations	26.00			4299.00	
Bullnose	3.00			4302.00	36.00 Bottom Packers & Anchor

Total Tool Length: 66.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner, Inc.

17-25s-13w Stafford,KS

305 E 7th Ave
St. John, KS 67576

Tommy #1

Job Ticket: 70577

DST#: 3

ATTN: Keith Reavis

Test Start: 2023.01.22 @ 18:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 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
520.00	muddy water 5%M,95%W	5.372

Total Length: 520.00 ft Total Volume: 5.372 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.495@51F=19,000ppm

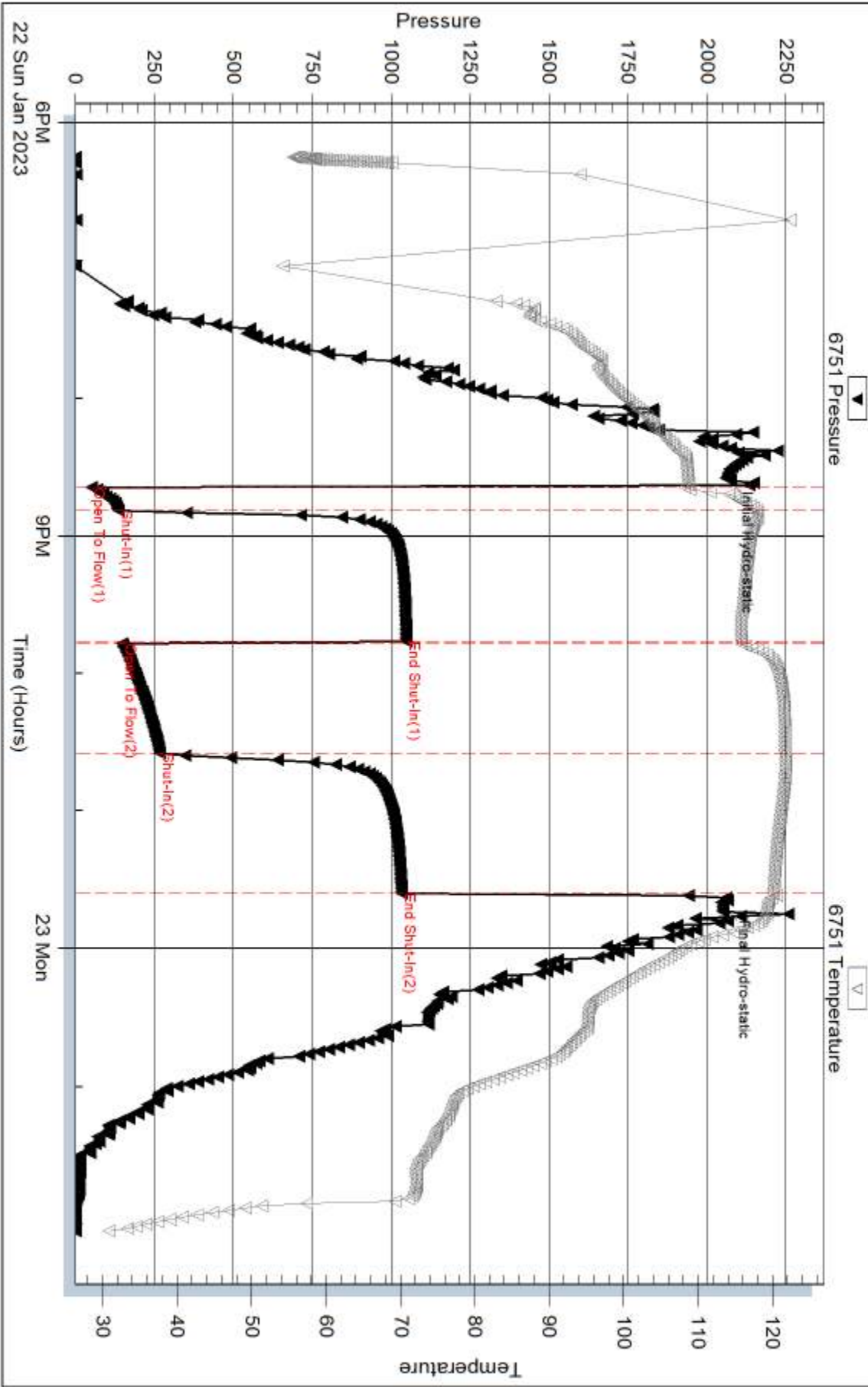
Serial #: 6751

Outside Thomas Garner, Inc.

Tommy #1

DST Test Number: 3

Pressure vs. Time



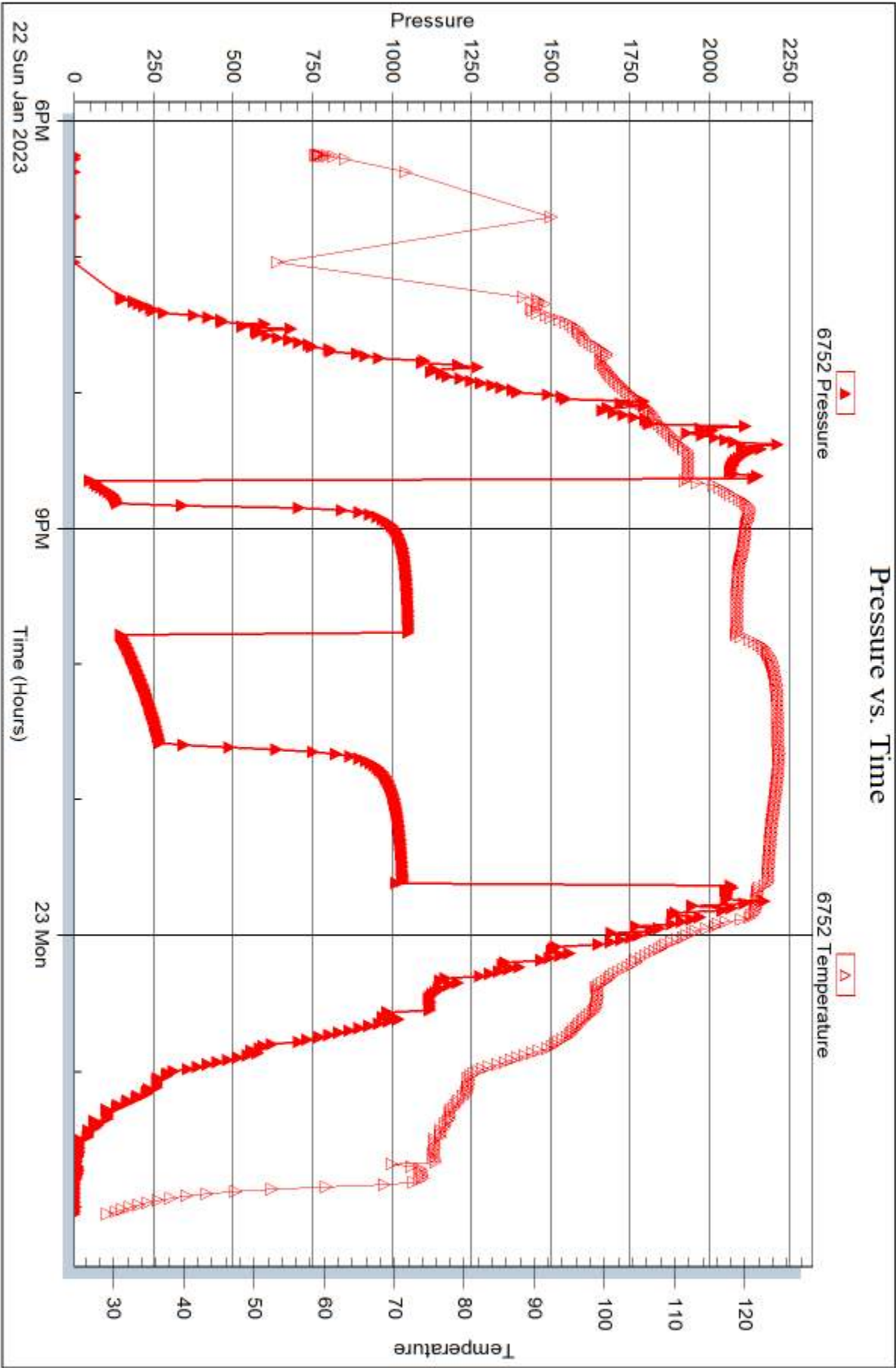
Serial #: 6752

Inside

Thomas Garner, Inc.

Tommy #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Thomas Garner, Inc.**

305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

Tommy #1

17-25s-13w Stafford,KS

Start Date: 2023.01.23 @ 13:30:00

End Date: 2023.01.23 @ 21:04:02

Job Ticket #: 70578 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2023.01.25 @ 14:25:01



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

17-25s-13w Stafford, KS

Tommy #1

Job Ticket: 70578

DST#: 4

Test Start: 2023.01.23 @ 13:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:02:47

Time Test Ended: 21:04:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4334.00 ft (KB) To 4342.00 ft (KB) (TVD)

Total Depth: 4342.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1968.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press@RunDepth: 64.01 psig @ 4335.00 ft (KB)

Start Date: 2023.01.23

End Date:

2023.01.23

Start Time: 13:30:01

End Time:

21:04:02

Capacity: psig

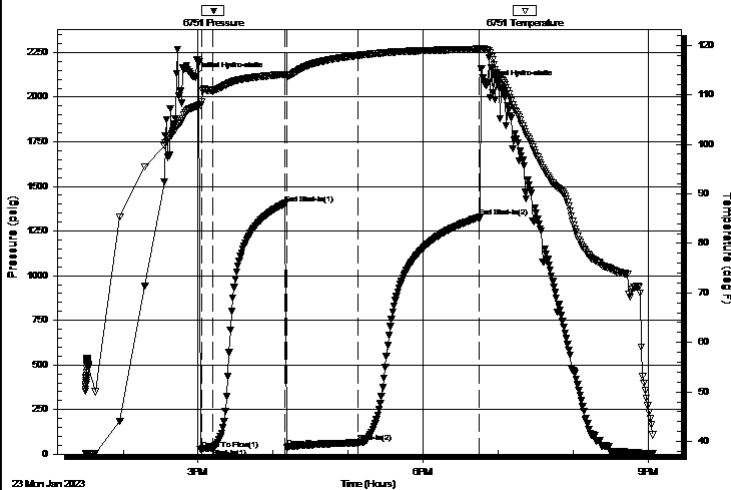
Last Calib.: 1899.12.30

Time On Btm: 2023.01.23 @ 14:56:47

Time Off Btm: 2023.01.23 @ 18:49:47

TEST COMMENT: IF: 10 min., fair building blow, 2 inches
IS: 60 min., no blow back
FF: 60 min., fair building blow, 9 inches
FS: 90 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2114.96	107.51	Initial Hydro-static
6	28.06	108.52	Open To Flow (1)
15	35.24	110.89	Shut-In(1)
73	1404.36	114.12	End Shut-In(1)
74	39.49	113.81	Open To Flow (2)
131	64.01	117.93	Shut-In(2)
228	1327.01	119.23	End Shut-In(2)
234	2070.37	119.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	oily watery mud 10%O,40%W,50%M	0.30
30.00	gassy oil 5%G, 95%O	0.15

Gas Rates

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

DRILL STEM TEST REPORT

Thomas Garner, Inc.

305 E 7th Ave
St. John, KS 67576

ATTN: Keith Reavis

17-25s-13w Stafford, KS

Tommy #1

Job Ticket: 70578

DST#: 4

Test Start: 2023.01.23 @ 13:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:02:47

Time Test Ended: 21:04:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 4334.00 ft (KB) To 4342.00 ft (KB) (TVD)

Total Depth: 4342.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1968.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6752 Inside

Press@RunDepth: psig @ 4335.00 ft (KB)

Start Date: 2023.01.23

End Date:

2023.01.23

Start Time: 13:30:01

End Time:

21:04:02

Capacity: psig

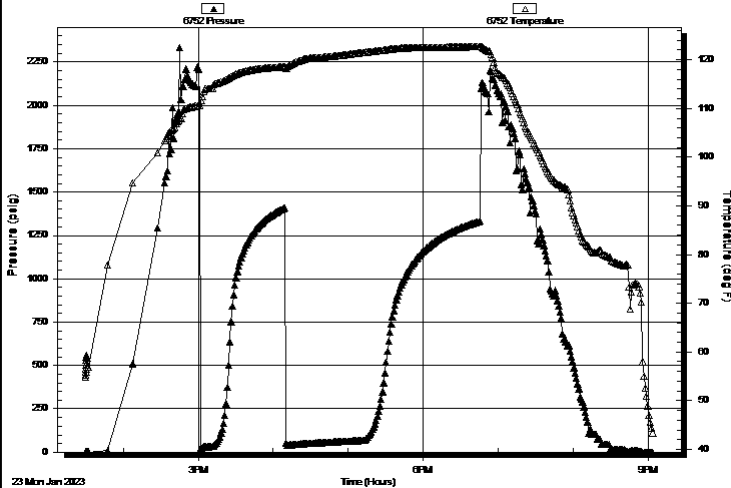
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 10 min., fair building blow , 2 inches
IS: 60 min., no blow back
FF: 60 min., fair building blow , 9 inches
FS: 90 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
60.00	oily watery mud 10%O,40%W,50%M	0.30
30.00	gassy oil 5%G, 95%O	0.15

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner, Inc.

17-25s-13w Stafford,KS

305 E 7th Ave
St. John, KS 67576

Tommy #1

Job Ticket: 70578

DST#: 4

ATTN: Keith Reavis

Test Start: 2023.01.23 @ 13:30:00

Tool Information

Drill Pipe:	Length:	4110.00 ft	Diameter:	3.80 inches	Volume:	57.65 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	210.00 ft	Diameter:	2.25 inches	Volume:	1.03 bbl	Weight to Pull Loose:	75000.00 lb
					Total Volume:	58.68 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		16.00 ft					String Weight: Initial	72000.00 lb
Depth to Top Packer:		4334.00 ft					Final	72000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		8.00 ft						
Tool Length:		38.00 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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Shut In Tool	5.00			4309.00	
Hydraulic tool	5.00			4314.00	
Isolator Sub	3.00			4317.00	
Jars	5.00			4322.00	
Safety Joint	3.00			4325.00	
Packer	5.00			4330.00	30.00 Bottom Of Top Packer
Packer	4.00			4334.00	
Stubb	1.00			4335.00	
Recorder	0.00	6752	Inside	4335.00	
Recorder	0.00	6751	Outside	4335.00	
Perforations	4.00			4339.00	
Bullnose	3.00			4342.00	8.00 Bottom Packers & Anchor

Total Tool Length: 38.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner, Inc.

17-25s-13w Stafford,KS

305 E 7th Ave
St. John, KS 67576

Tommy #1

Job Ticket: 70578

DST#: 4

ATTN: Keith Reavis

Test Start: 2023.01.23 @ 13:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

34 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	oily watery mud 10%O,40%W,50%M	0.295
30.00	gassy oil 5%G, 95%O	0.148

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

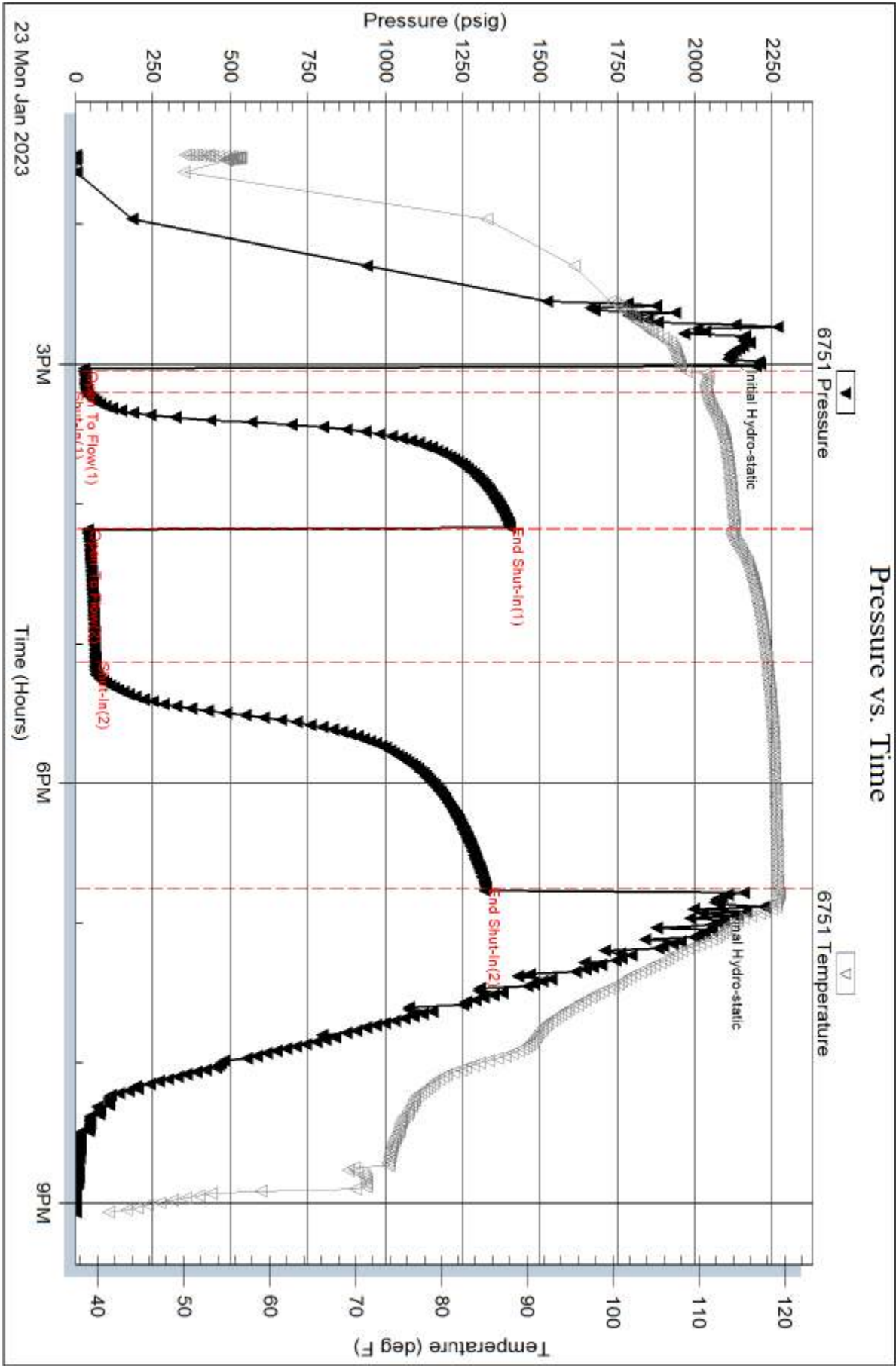
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API=32@40F=34api
120' GIP



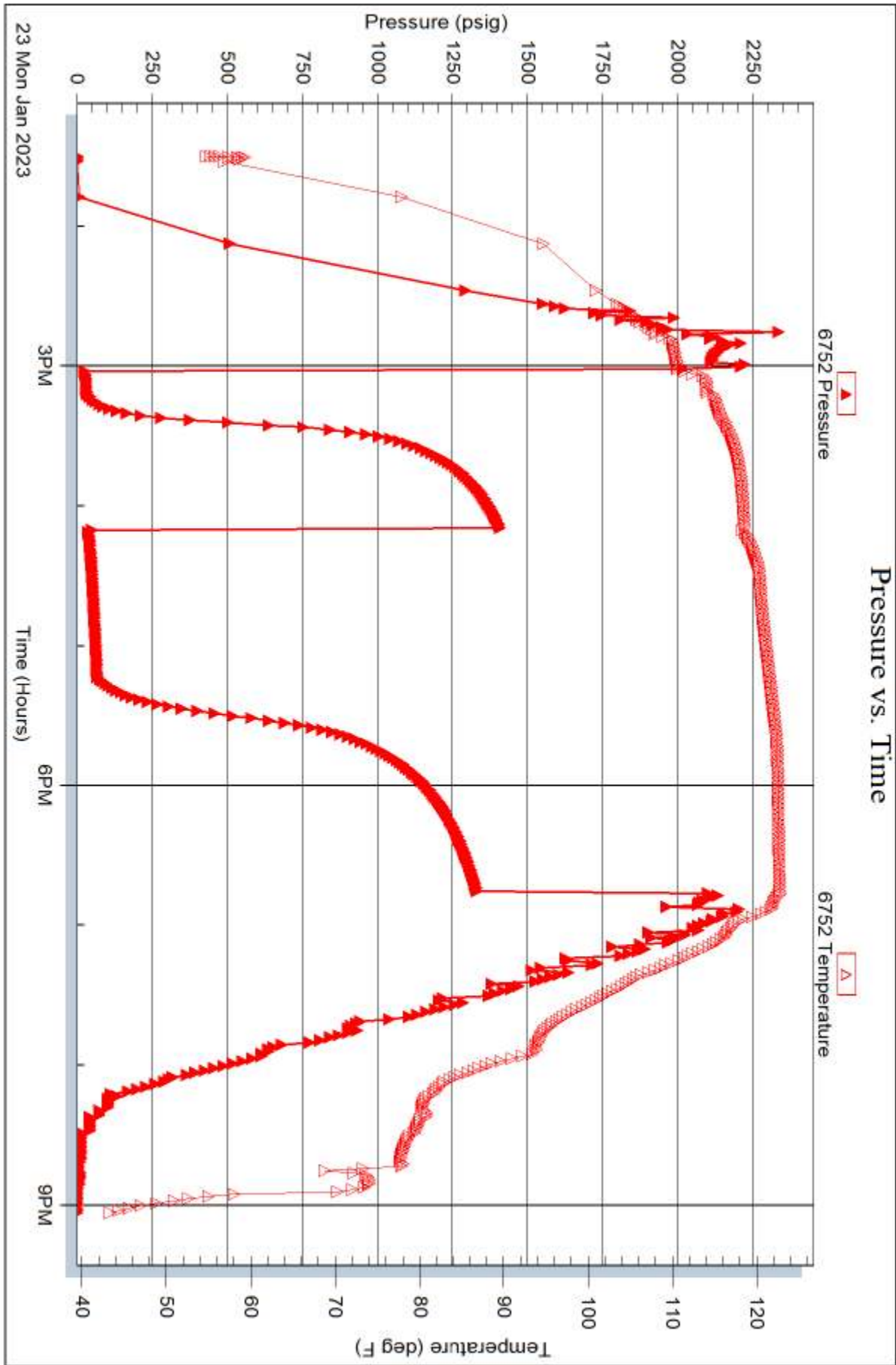
Serial #: 6752

Inside

Thomas Garner, Inc.

Tommy #1

DST Test Number: 4





TRIBBLE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

NO. **69275**

Well Name & No. Tommy 1 Test No. 1 Date 1-20-23
Company Thomas Warner, Inc. Elevation 1968 KB 1957 GL
Address 305 E 17th Ave St. John, KS 67576
Co. Rep / Geo. Keith Reavis Rig Sterling #2
Location: Sec. 17 Twp 25 Rge. 13 Co. Staford State KS

Interval Tested 3954-3974 Zone Tested Lansing K
Anchor Length 20' Drill Pipe Run 3730 Mud Wt. 9.4
Top Packer Depth 3949 Drill Collars Run 210 Vis 45
Bottom Packer Depth 3954 Wt. Pipe Run N.A. WL 8.8
Total Depth 3974 Chlorides 5000 ppm System LCM 2#

Blow Description 1P: 10 min., BOB 30 sec, strong building blow, 322 inches
1ST 45 min, blow back 3 min., 2 inches
FP: 60 min., BOB ASAD, CTS 20 min., strong building blow
PSR 90 min., blow back 30 sec, BOB 60 min.

Rec <u>720</u>	Feet of <u>gassy oil</u>	<u>20%</u> gas	<u>80%</u> 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 720 BHT 116 Gravity 21 API 19 @ 40 °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1952</u>	☒ Test <u>conv.</u> ¹⁸⁰⁰	T-On Location <u>1000</u>
(B) First Initial Flow <u>84</u>	☒ Jars ³⁰⁰	T-Started <u>1130</u>
(C) First Final Flow <u>104</u>	☒ Safety Joint _____	T-Open <u>1315</u>
(D) Initial Shut-In <u>1120</u>	☐ Circ Sub _____	T-Pulled <u>1640</u>
(E) Second Initial Flow <u>102</u>	☐ Hourly Standby _____	T-Out <u>1945</u>
(F) Second Final Flow <u>204</u>	☒ Mileage <u>X 30</u> ^{52.50}	Comments <u>1124</u>
(G) Final Shut-In <u>892</u>	☐ Sampler _____	
(H) Final Hydrostatic <u>1900</u>	☐ Straddle _____	

Initial Open <u>10</u>	☐ Shale Packer _____	☒ EM Tool <u>good</u>
Initial Shut-In <u>45</u>	☐ Extra Packer _____	☐ Ruined Shale Packer _____
Final Flow <u>60</u>	☐ Extra Recorder _____	☐ Ruined Packer _____
Final Shut-In <u>90</u>	☐ Day Standby _____	☐ Extra Copies _____
	☐ Accessibility _____	Sub Total ⁰
	Sub Total ^{2152.50}	Total <u>2152.50</u>
		MP/DST Disc't _____

Approved By _____ Our Representative Chris Hagen
Tribble 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. 70576

Well Name & No. <u>Tommy 1</u>	Test No. <u>2</u>	Date <u>1-22-23</u>
Company <u>Thomas Garner, Inc.</u>	Elevation <u>1968</u>	KB <u>1957</u> GL
Address <u>205 E 7th Ave St. John, KS 67576</u>		
Co. Rep / Geo <u>Keith Reavis</u>	Rig <u>Sterling 04</u>	
Location: Sec. <u>17</u> Twp <u>25</u> Rge. <u>13</u>	Co. <u>Stefard</u>	State <u>KS</u>

Interval Tested <u>4258-4278</u>	Zone Tested <u>Simpson Snd.</u>
Anchor Length <u>20'</u>	Drill Pipe Run <u>4022</u>
Top Packer Depth <u>4253</u>	Drill Collars Run <u>210</u>
Bottom Packer Depth <u>4258</u>	Wt. Pipe Run <u>N.A.</u>
Total Depth <u>4278</u>	Chlorides <u>5000</u> ppm System
	LCM <u>2.5</u>

Blow Description TF: 10 min., weak surface blow, 2.5 inches
ISB: 45 min., no blow back
FP: 45 min., weak surface blow, 2.5 inches
RSB: 60 min., no blow back

Rec <u>10</u>	Feet of <u>oil speckled mud</u>	%gas <u>1</u>	%oil	%water <u>99</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 <u>10</u>	BHT <u>119</u>	Gravity	API RW	@	*F Chlorides	ppm
Initial Hydrostatic <u>2081</u>	☒ Test <u>conv.</u> ¹⁹⁵⁰	☐ Ruined Shale Packer				
Initial Flow <u>22</u> to <u>23</u>	☒ Jars ³⁰⁰	☐ Ruined Packer				
Initial Shut-In <u>1016</u>	☐ Circ Sub	☐ Hotel				
Final Flow <u>26</u> to <u>29</u>	☐ Hourly Standby	☒ EM Tool Successful				
Final Shut-In <u>278</u>	☒ Mileage <u>30</u> ^{52.50}	☐ Accessibility				
Final Hydrostatic <u>2068</u>	☐ Sampler	☐ Gas Sample				
T- On Location <u>1200</u>	☐ Straddle	☐ Oversized Hole				
Initial Flow <u>10</u> T-Started <u>0130</u>	☐ Shale Packer	☐ Sub Total ⁰				
Initial Shut-In <u>45</u> T-Open <u>0315</u>	☐ Extra Packer	☐ Total ^{2302.50}				
Final Flow <u>45</u> T-Pulled <u>0455</u>	☐ Extra Recorder	☐ Tool Loaded @				
Final Shut-In <u>60</u> T-Out	☐ Day Standby ^{2302.50}	☒ MP/DST Disc't				
Comments <u>0108</u>						

Approved By _____ Our Representative Chris Hagan

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. **70577**

Well Name & No. Tommy 1 Test No. 3 Date 1-22-23
 Company Thomas Corner, Inc. Elevation 1968 KB 1957 GL
 Address 305 E 7th Ave. St. John, KS 67576
 Co. Rep / Geo Keith Reavis Rig Sterling #4
 Location: Sec. 17 Twp 25 Rge. 13 Co. St. Paul State KS

Interval Tested 4266-4302 Zone Tested Simpson Snd.
 Anchor Length 36 Drill Pipe Run 4047 Mud Wt. 9.4
 Top Packer Depth 4261 Drill Collars Run 211 Vis 54
 Bottom Packer Depth 4266 Wt. Pipe Run N.A. WL 8.8
 Total Depth 4302 Chlorides 5,000 ppm System LCM 3#

Blow Description IF 10 min., strong building blow, 11.5 inches
IS 60 min., no blow back
FPI 45 min., BOB 13 min., strong building blow, 28 inches
FS 21 60 min., no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>520</u>	<u>Muddy water</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 520 BHT 121 Gravity 1.495 @ 51 °F Chlorides 19,000 ppm

Initial Hydrostatic 2061 ☒ Test conv. ¹⁹⁵⁰ ☐ Ruined Shale Packer

Initial Flow 52 to 136 ☒ Jars ³⁰⁰ ☐ Ruined Packer

Initial Shut-In 1046 ☐ Circ Sub ☐ Hotel

Final Flow 148 to 268 ☐ Hourly Standby ☒ EM Tool Successful

Final Shut-In 1032 ☒ Mileage 30 ^{52.50} ☐ Accessibility

Final Hydrostatic 2052 ☐ Sampler ☐ Gas Sample

T- On Location 1730 ☐ Straddle ☐ Oversized Hole

Initial Flow 10 T-Started 1830 ☐ Shale Packer ☐ Sub Total ⁰

Initial Shut-In 60 T-Open 2045 ☐ Extra Packer ☐ Total ^{2302.50}

Final Flow 45 T-Pulled 2340 ☐ Extra Recorder ☐ Tool Loaded @

Final Shut-In 60 T-Out 0200 ☐ Day Standby ^{2302.50} ☒ MP/DST Disc't

Comments 1815 bats on

Approved By _____ Our Representative Chris Hagner

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70578

Well Name & No. Tenny 1 Test No. 4 Date 1-23-23
Company Thomas Garner, Inc. Elevation 1968 KB 1957 GL
Address 305 E 7th Ave St. John, KS 67576
Co. Rep / Geo Keith Reavis Rig Sterling 04
Location: Sec. 17 Twp 25 Rge. 13 Co. Stafford State KS

Interval Tested 4334-4342 Zone Tested Aibuckla
Anchor Length 8' Drill Pipe Run 4110 Mud Wt. 9.3
Top Packer Depth 4329 Drill Collars Run 210 Vis 57
Bottom Packer Depth 4334 Wt. Pipe Run _____ WL 8.8
Total Depth 4342 Chlorides 5000 ppm System LCM 2.5

Blow Description IF: 10 min, fair building blow, 2 inches
ISD: 60 min, no blow back
FP: 60 min, fair building blow, 9 inches
FSD: 90 min, no blow back

Rec <u>60</u>	Feet of <u>oily watery mud</u>	%gas	<u>10</u> %oil	<u>40</u> %water	<u>50</u> %mud
Rec <u>30</u>	Feet of <u>gassy oil</u>	<u>5</u> %gas	<u>95</u> %oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of <u>120' CIP</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 90' BHT 119 Gravity 34 APLM 32 @ 40 °F Chlorides _____ ppm

Initial Hydrostatic 2115 ☒ Test Cerv 1950 ☐ Ruined Shale Packer _____

Initial Flow 28 to 35 ☒ Jars 300 ☐ Ruined Packer _____

Initial Shut-In 1404 ☐ Circ Sub _____ ☐ Hotel _____

Final Flow 39 to 64 ☐ Hourly Standby _____ ☒ EM Tool Successful _____

Final Shut-In 1327 ☒ Mileage 230 52.50 ☐ Accessibility _____

Final Hydrostatic 2070 ☐ Sampler _____ ☐ Gas Sample _____

T- On Location 1300 ☐ Straddle _____ ☐ Oversized Hole _____

Initial Flow 10 T-Started 1330 ☐ Shale Packer _____ ☐ Sub Total 0

Initial Shut-In 60 T-Open 1510 ☐ Extra Packer _____ ☐ Total 2302.50

Final Flow 60 T-Pulled 1850 ☐ Extra Recorder _____ ☐ Tool Loaded _____ @ _____

Final Shut-In 90 T-Out 2100 ☐ Day Standby _____ ☐ MP/DST Disc't _____

Comments 1330

Approved By _____ Our Representative Chris Hagner

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.



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

THOMAS GARNER INC
20 NE 20TH AVE
SAINT JOHN, KS 67576

Invoice Date: 1/15/2023
Invoice #: 0366062
Lease Name: Tommy
Well #: 1 (New)
County: Stafford, Ks
Job Number: WP3829
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Cement Pozmix 60/40	450.000	15.000	6,750.00
Calcium Chloride	1,161.000	0.750	870.75
Cello Flake	113.000	1.750	197.75
8 5/8" Top rubber plug	1.000	175.000	175.00
Light Eq Mileage	20.000	2.000	40.00
Heavy Eq Mileage	40.000	4.000	160.00
Ton Mileage	387.000	1.500	580.50
Cement Blending & Mixing	450.000	1.400	630.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Cement Data Acquisition	1.000	250.000	250.00
Cement Plug Container	1.000	250.000	250.00
Service Supervisor	1.000	275.000	275.00

Total 11,179.00

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

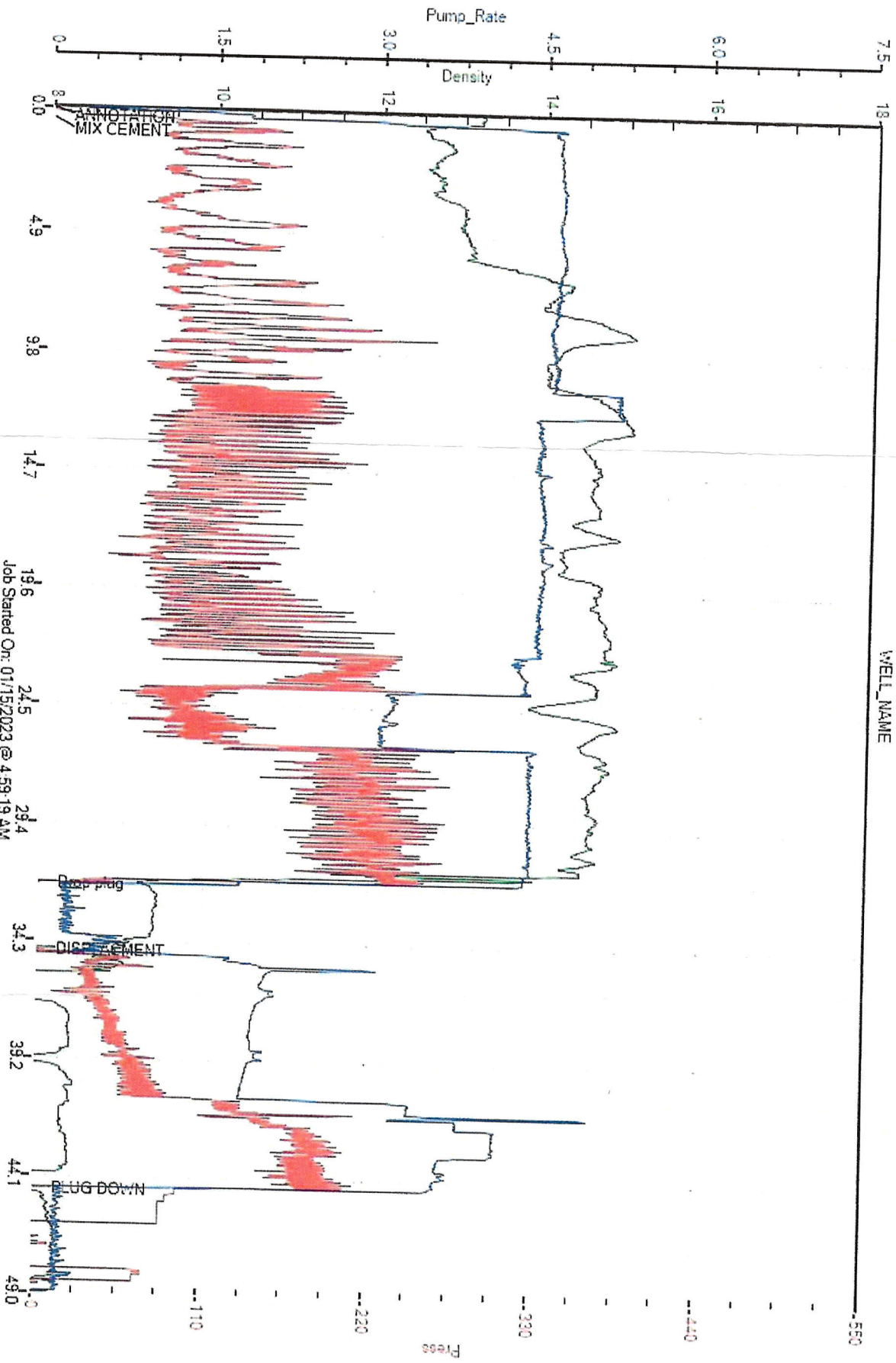
SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. The terms of this agreement shall be governed by the laws of the State of Florida. HSI has previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

ftv: 7-2020/11/30
mplv: 339-2022/10/05

THOMAS GARNER WELL_NAME



Job Started On: 01/15/2023 @ 4:59:19 AM



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

THOMAS GARNER INC
20 NE 20TH AVE
SAINT JOHN, KS 67576

Invoice Date: 2/14/2023
Invoice #: 0366274
Lease Name: Tommy
Well #: 1 (New)
County: Stafford, Ks
Job Number: WP3868
District: Pratt

Date/Description	HRS/QTY	Rate	Total
1/25-Longstring	0.000	0.000	0.00
H-H Long	190.000	45.000	8,550.00
H-Plug	50.000	14.000	700.00
GYP Seal	895.000	1.000	895.00
Cello Flake	52.000	1.750	91.00
Gas Block	537.000	3.000	1,611.00
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
Cement baskets 5 1/2"	2.000	300.000	600.00
5 1/2" Turbolizers	12.000	125.000	1,500.00
Mud flush	1,000.000	1.000	1,000.00
Light Eq Mileage	20.000	2.000	40.00
Heavy Eq Mileage	40.000	4.000	160.00
Ton Mileage	221.000	1.500	331.50
Cement Blending & Mixing	240.000	1.400	336.00
Casing Swivel	1.000	300.000	300.00
Depth Charge 4001'-5000'	1.000	2,500.000	2,500.00
Cement Data Acquisition	1.000	250.000	250.00
Cement Plug Container	1.000	250.000	250.00
Service Supervisor	1.000	275.000	275.00

Total 20,114.50

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

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CEMENT TREATMENT REPORT

Customer:	Thomas Garner	Well:	Tommy 1	Ticket:	wp 3868
City, State:	Iuka Kansas	County:	Stafford.Kansas	Date:	1/25/2023
Field Rep:	Kyle Roby	S-T-R:	17-25s-13w	Service:	Longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4420 ft
Casing Size:	5 1/2 in
Casing Depth:	4413 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	105.0 bbls

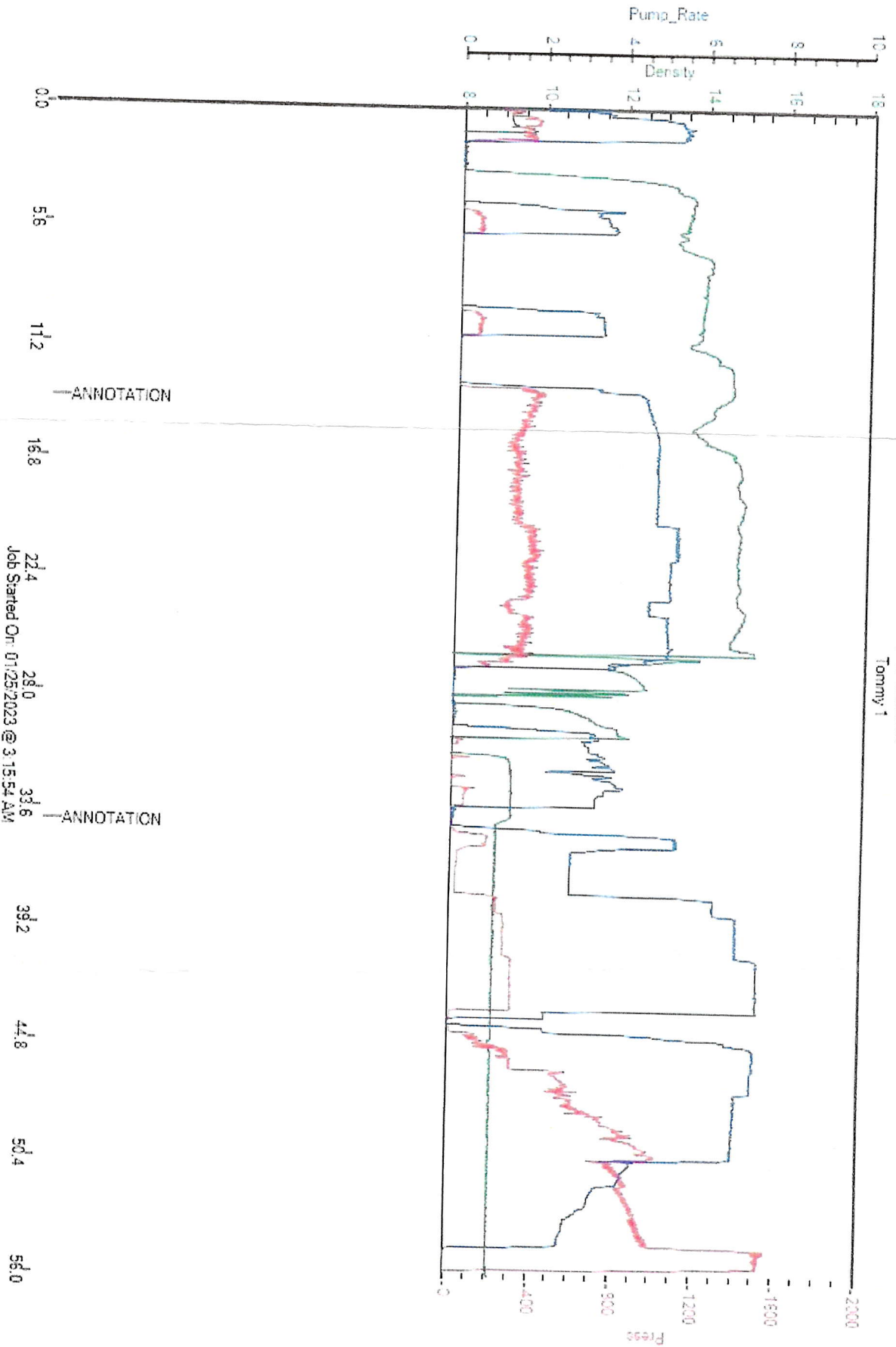
Calculated Slurry - Lead	
Blend:	H-H-long
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.49 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	50.4 bbls
Total Sacks:	190 sx

Calculated Slurry - Tail	
Blend:	H - Plug
Weight:	13.7 ppg
Water / Sx:	gal / sx
Yield:	1.43 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	12.7 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
10:15 PM			-	-	on location job and safety
10:30 PM			-	-	spot trucks and rig up
			-	-	turbolizers 1,2,3,5,7,8,9,10,11,12,13,14
			-	-	basket 1 „14
11:40 PM			-	-	start casing in the hole
2:15 AM			-	-	casing on bottom and circulate
			-	-	
3:20 AM	5.0	350.0	3.0	3.0	fresh
	5.0	350.0	24.0	27.0	mudflush
	5.0	350.0	3.0	30.0	fresh
3:25 AM	2.0	-	12.7		plug rat hole 30 sacks „plug mouse hole 20 sacks
3:35 AM					start cement down hole
	5.0	300.0	50.0		mix 190 sacks cement
3:50 AM					cement in and shut down
					wash pump and lines and release the plug
3:55 AM					start displacement
	7.0	280.0	20.0		
	7.5	300.0	40.0		
	7.5	310.0	60.0		lift pressure at 66 bbls
	7.5	700.0	80.0		
	4.5	800.0	100.0		
4:15 AM	4.5	100.0	105.0		plug down
					took pressure from 1000 to 1500
					release pressure „plug did hold

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	A Clifton	181/521	5.5 bpm	347 psi	498 bbls
Bulk #1:	K Julian	52w6/256			
Bulk #2:					

Tom Garner Tommy 1



tom garner tommy longstring IMIP.acdb 1

Invoice

Custom Service, LLC

766 NW 30th St.
St. John, KS 67576

Date	Invoice #
1/31/2023	3891

Bill To
Thomas Garner Inc. 20 NE 20th Ave St. John, KS 67576

P.O. No.	Terms	Project
TOMMY ??	Due on receipt	

Item	Quantity	Description	Rate	Amount
Water Truck	2	01/25/2023: 80 BBLS FREE WATER FROM RESERVE PIT TO SWD	115.00	230.00
Disposal Fee	80	80 BBLS TO SWD	0.35	28.00
Thank you for your business. For any questions and concerns please contact Aric at (620)546-4205			Total	\$258.00

OPERATOR

Company: Thomas Garner, Inc.
Address: 305 E. 7th Avenue
St. John, KS 67576

Contact Geologist:
Contact Phone Nbr: 620-793-0766
Well Name: Tommy #1
Location: Sec. 17 - T25S - R13W
API: 15-185-24128-0000
Pool:
State: Kansas

Field: Kachelman
Country: USA



Scale 1:240 Imperial

Well Name: Tommy #1
Surface Location: Sec. 17 - T25S - R13W
Bottom Location:
API: 15-185-24128-0000
License Number: 33406
Spud Date: 1/14/2023
Region: Stafford County
Drilling Completed: 1/24/2023
Surface Coordinates: 1536' FSL & 2328' FEL
Bottom Hole Coordinates:
Ground Elevation: 1957.00ft
K.B. Elevation: 1968.00ft
Logged Interval: 3550.00ft
Total Depth: 4420.00ft
Formation: Arbuckle
Drilling Fluid Type: Chemical/Fresh Water Gel

Time: 7:00 PM
Time: 6:20 AM
To: 4420.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -98.773374
Latitude: 37.873032
N/S Co-ord: 1536' FSL
E/W Co-ord: 2328' FEL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
Address: 3420 22nd Street
Great Bend, KS 67530

Phone Nbr: 620-617-4091
Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: Sterling Drilling Company
Rig #: 4
Rig Type: mud rotary
Spud Date: 1/14/2023
TD Date: 1/24/2023

Time: 7:00 PM
Time: 6:20 AM

ELEVATIONS

K.B. Elevation: 1968.00ft
K.B. to Ground: 11.00ft

Ground Elevation: 1957.00ft

NOTES

Based on results of DST #1, DST #4 and electrical log analysis, 5 1/2" production casing was set to total depth to further test the Arbuckle and Lansing through perforations and stimulation.

A Tooke Daq gas detection system operated by Sterling Drilling Company was employed during the drilling of this well. ROP and gas data from said system, as well as gamma ray and caliper curves from the electrical log suite were imported into this log.

Samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted
Keith Reavis

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
01/19/2023	3610	Geologist Keith Reavis on duty @0505 hrs, 3610 ft, drilling ahead, Heebner Toronto, Douglas, Lansing, bit trip @ 3911'
01/20/2023	3973	show in K warrants testing, run 1/2 pre-mix to dress mud, TOH for DST #1, conduct and complete DST #1, successful test, TIH w/bit
01/21/2023	4090	resume drilling, Base KC, Marmaton, conglomerate, Kinderhook, Viola, Simpson Sand, show warrants test, short trip, ctch, TOH for DST #2
01/22/2023	4278	conduct and complete DST #2, successful test, drill 2nd Simpson sand, show warrants test, TOH w/ bit, in w/tools, conducting DST #3
01/23/2023	4312	lay down tools, TIH w/bit, resume drilling Simpson Shale, Arbuckle, show in Arbuckle warrant test, TOH for DST #4, conduct and complete DST #4, successful test, TIH w/bit, resume drilling
01/24/2023	4420	rathole ahead, TD @ 0620 hrs, rig up Midwest Wireline, conduct and complete open hole logging operations, geologist off location 1400 hrs

well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Tommy #1					Buck #1				Woodman Iannitti - Garner #1			
1536' FNL & 2328' FEL					337' FNL & 1835' FWL				SE SE SW			
Sec 20-T25S-R13W					Sec 20-T25S-R13W				Sec 17-T25S-R13W			
1968 KB					1965 KB		Structural Relationship		1956 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3540	-1572	3540	-1572	3550	-1585	13	13	3545	-1589	17	17
Douglas	3579	-1611	3577	-1609	3588	-1623	12	14	3582	-1626	15	17
Brown Lime	3688	-1720	3688	-1720	3702	-1737	17	17	3696	-1740	20	20
Lansing	3721	-1753	3720	-1752	3736	-1771	18	19	3729	-1773	20	21
Lansing H	3850	-1882	3850	-1882	3868	-1903	21	21	3864	-1908	26	26
BKC	4004	-2036	4000	-2032	4013	-2048	12	16	4012	-2056	20	24
Miss Chert	np				np				np			
Kinderhook Sh	4102	-2134	4121	-2153	4124	-2159	25	6	4148	-2192	58	39
Viola	4170	-2202	4152	-2184	4173	-2208	6	24	4206	-2250	48	66
Simpson Sand	4273	-2305	4273	-2305	4254	-2289	-16	-16	4280	-2324	19	19
Arbuckle	4332	-2364	4332	-2364	4318	-2353	-11	-11	4339	-2383	19	19
Total Depth	4420	-2452	4420	-2452	4399	-2434	-18	-18	4355	-2399	-53	-53

Drill Stem Test #1

	DRILL STEM TEST REPORT	
	Thomas Garner, Inc.	17/25/13
	305 E7th Ave	Tommy 1



St. John, KS 67576

Job Ticket: 69275

DST#: 1

ATTN: Keith Reavis

Test Start: 2023.01.20 @ 11:24:00

GENERAL INFORMATION:

Formation: **Lansing K**Deviated: **No** Whipstock: 1968.00 ft (KB)

Time Tool Opened: 13:09:02

Time Test Ended: 19:42:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3954.00 ft (KB) To 3974.00 ft (KB) (TVD)

Total Depth: 3974.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1968.00 ft (KB)

1957.00 ft (CF)

KB to GRCP: 11.00 ft

Serial #: 6751

Outside

Press@RunDepth: 203.59 psig @ 3956.00 ft (KB)

Start Date: 2023.01.20

End Date:

2023.01.20

Start Time: 11:24:00

End Time:

19:42:02

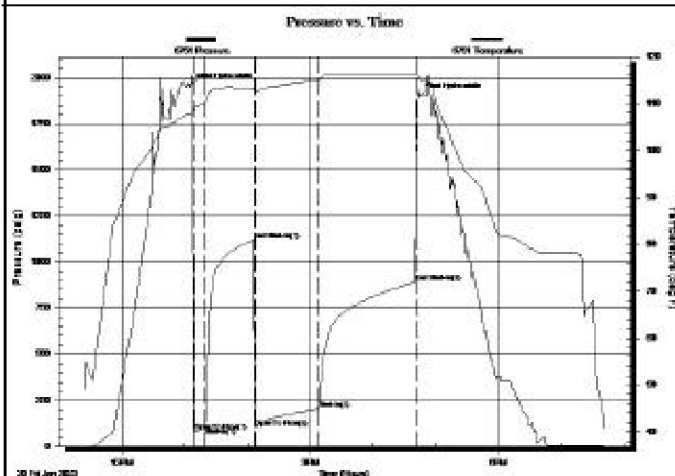
Capacity: psig

Last Calib.: 1899.12.30

Time On Btm: 2023.01.20 @ 13:04:32

Time Off Btm: 2023.01.20 @ 16:44:32

TEST COMMENT: F: 10 min., BOB 30 sec., strong building blow, 322 inches
SI: 45 min., blow back 3 min., 2 inches
FF: 60 min., BOB ASA O, GTS 20 min., strong building blow
FSI: 90 min., blow back 30 sec., BOB 60 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1952.16	107.85	Initial Hydro-static
5	83.91	109.11	Open To Flow (1)
15	104.34	110.34	Shut-In (1)
62	1120.01	113.33	End Shut-In (1)
63	101.67	112.74	Open To Flow (2)
124	203.59	115.01	Shut-In (2)
217	892.40	116.13	End Shut-In (2)
220	1899.52	115.17	Final Hydro-static

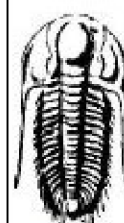
Recovery

Length (ft)	Description	Volume (bb)
720.00	gassy oil 20%G, 80%O	8.19

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)
First Gas Rate	0.13	1.00	5.43
Last Gas Rate	0.13	1.00	5.43
Max. Gas Rate	0.13	1.00	5.43

Drill Stem Test #2

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Thomas Garner, Inc.

17/25/13

305 E 7th Ave
St. John, KS 67576

Tommy 1

ATTN: Keith Reavis

Job Ticket: 70576

DST#: 2

Test Start: 2023.01.22 @ 01:08:00

GENERAL INFORMATION:

Formation: **Simpson Snd**Deviated: **No** Whipstock: 1968.00 ft (KB)

Time Tool Opened: 03:08:32

Time Test Ended: 08:12:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

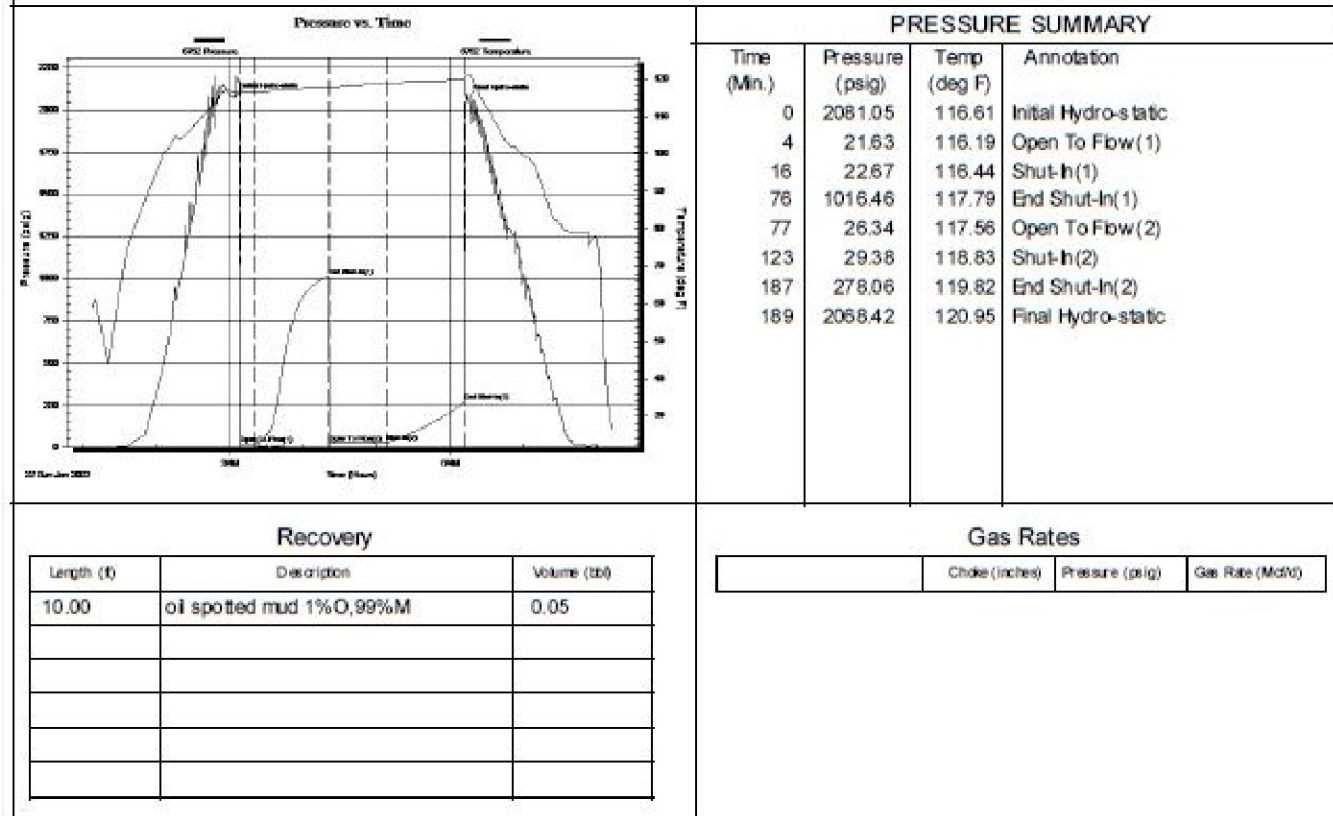
Interval: 4258.00 ft (KB) To 4278.00 ft (KB) (TVD)

Total Depth: 4278.00 ft (KB) (TVD)

Reference Elevations: 1968.00 ft (KB)

1957.00 ft (CF)

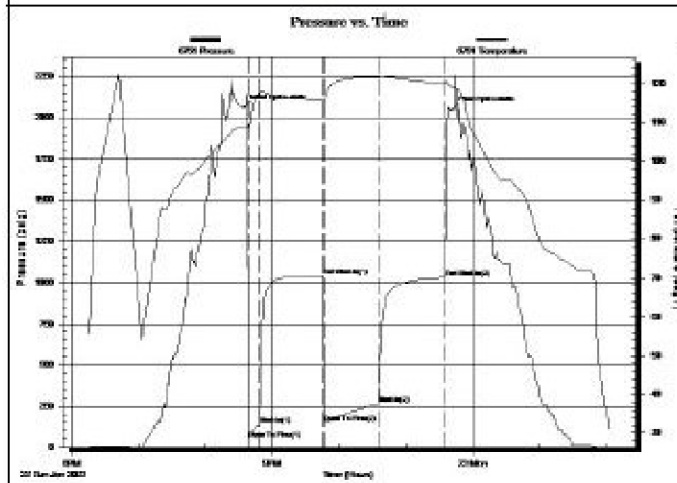
Total Depth: 4276.00 ft (KB) (TVD)		Hole Diameter: 7.80 inches		Hole Condition: Good		KB to GR/CF: 11.00 ft	
Serial #: 6752 Inside							
Press@Run Depth: 29.38 psig @ 4260.00 ft (KB)		Capacity:		psig			
Start Date: 2023.01.22		End Date: 2023.01.22		Last Calib.: 1899.12.30			
Start Time: 01:08:00		End Time: 08:12:02		Time On Btm: 2023.01.22 @ 03:04:32			
				Time Off Btm: 2023.01.22 @ 06:13:32			
TEST COMMENT: F: 10 min., weak surface blow , 2.5 inches IS: 45 min., no blow back FF: 45 min., weak surface blow , 2.5 inches FSI: 60 min., no blow back							



Drill Stem Test #3

	TRILOBITE TESTING, INC.		DRILL STEM TEST REPORT																																				
	Thomas Garner, Inc. 305 E7th Ave St. John, KS 67576 ATTN: Keith Reavis		17/25/13 Tommy 1 Job Ticket: 70577 DST#: 3 Test Start: 2023.01.22 @ 18:15:00																																				
	GENERAL INFORMATION:																																						
	Formation: Simpson SMD Deviated: No Whipstock 1968.00 ft (KB) Time Tool Opened: 20:38:47 Time Test Ended: 02:03:02 Interval: 4266.00 ft (KB) To 4302.00 ft (KB) (TVD) Total Depth: 4302.00 ft (KB) (TVD) Hole Diameter: 7.80 inches Hole Condition: Good		Test Type: Conventional Bottom Hole (htial) Tester: Chris Hagman Unit No: 69 Reference Elevations: 1968.00 ft (KB) 1957.00 ft (CF) KB to GR/CF: 11.00 ft																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">Serial #: 6751 Outside</td> <td colspan="2">Capacity:</td> <td>psig</td> </tr> <tr> <td colspan="2">Press@Run Depth: 267.86 psig @ 4268.00 ft (KB)</td> <td colspan="2">Last Calib.: 1899.12.30</td> <td></td> </tr> <tr> <td colspan="2">Start Date: 2023.01.22</td> <td colspan="2">End Date: 2023.01.23</td> <td></td> </tr> <tr> <td colspan="2">Start Time: 18:15:00</td> <td colspan="2">End Time: 02:03:02</td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Time On Btm: 2023.01.22 @ 20:34:47</td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Time Off Btm: 2023.01.22 @ 23:41:47</td> <td></td> </tr> <tr> <td colspan="5"> TEST COMMENT: F: 10 min., strong building blow , 11.5 inches IS: 60 min., no blow back FF: 45 min., BOB 13 min., strong building blow , 28 inches </td> </tr> </table>					Serial #: 6751 Outside		Capacity:		psig	Press@Run Depth: 267.86 psig @ 4268.00 ft (KB)		Last Calib.: 1899.12.30			Start Date: 2023.01.22		End Date: 2023.01.23			Start Time: 18:15:00		End Time: 02:03:02					Time On Btm: 2023.01.22 @ 20:34:47					Time Off Btm: 2023.01.22 @ 23:41:47			TEST COMMENT: F: 10 min., strong building blow , 11.5 inches IS: 60 min., no blow back FF: 45 min., BOB 13 min., strong building blow , 28 inches				
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TEST COMMENT: F: 10 min., strong building blow , 11.5 inches IS: 60 min., no blow back FF: 45 min., BOB 13 min., strong building blow , 28 inches																																							

FSI: 60 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2051.25	108.62	Initial Hydro-static
5	51.54	108.18	Open To Flow(1)
14	136.15	117.82	Shut-In(1)
72	1046.13	115.72	End Shut-In(1)
72	148.49	115.72	Open To Flow(2)
121	267.86	121.64	Shut-In(2)
181	1032.36	120.08	End Shut-In(2)
187	2051.51	119.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
520.00	muddy water 5%M,95%W	5.37

Gas Rates

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

Drill Stem Test #4

	DRILL STEM TEST REPORT	
	Thomas Garner, Inc.	17/25/13
	305 E7th Ave St. John, KS 67576	Tommy 1
	ATTN: Keith Reavis	Job Ticket: 70578 DST#:4 Test Start: 2023.01.23 @ 13:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock 1968.00 ft(KB)
 Time Tool Opened: 15:02:47
 Time Test Ended: 21:04:02

Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69

Interval: 4334.00 ft (KB) To 4342.00 ft (KB) (TVD)
 Total Depth: 4342.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1968.00 ft (KB)
 1957.00 ft (CF)
 KB to GR/CF: 11.00 ft

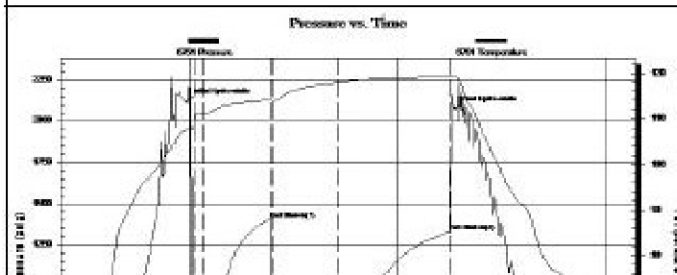
Serial #: 6751

Outside

Press@Run Depth: 64.01 psig @ 4335.00 ft (KB)
 Start Date: 2023.01.23 End Date: 2023.01.23
 Start Time: 13:30:00 End Time: 21:04:02

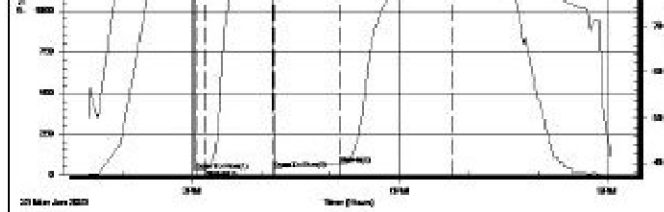
Capacity: psig
 Last Calib.: 1899.12.30
 Time On Btm: 2023.01.23 @ 14:56:47
 Time Off Btm: 2023.01.23 @ 18:49:47

TEST COMMENT: F: 10 min., fair building blow, 2 inches
 IS: 60 min., no blow back
 FF: 60 min., fair building blow, 9 inches
 FSI: 90 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2114.96	107.51	Initial Hydro-static
6	28.06	108.52	Open To Flow(1)
15	35.24	110.89	Shut-In(1)
73	1404.36	114.12	End Shut-In(1)
74	39.49	113.81	Open To Flow(2)
131	64.01	117.93	Shut-In(2)



228 1327.01 119.23 End Shut-In(2)
234 2070.37 119.14 Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	oil watery mud 10%O,40%W,50%M	0.30
30.00	gassy oil 5%G, 95%O	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)
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ROCK TYPES

	Cht vari		Dolprim		shale, gm		shale, red
	Congl		Lmst fw<7		shale, gry		Shcol
	Chtcongl		Lmst fw7>		Carbon Sh		Ss

ACCESSORIES

MINERAL

- Argillaceous
- ▲ Chert, dark
- △ Dolomitic
- × Mineral Crystals
- Sandy
- Silty
- △ Chert White

FOSSIL

- ∩ Bioclastic or Fragments
- F Fossils < 20%
- φ Oolite
- ⌘ Pellets
- ⚙ Oomoldic

STRINGER

- ~~~~ Chert
- ▨ Dolomite
- ▨ Limestone
- Sandstone
- Siltstone
- ▨ Shale
- ▨ red shale

TEXTURE

- C Chalky
- CX Cryptocrystalline
- L Lithogr
- MX Microxln

OTHER SYMBOLS

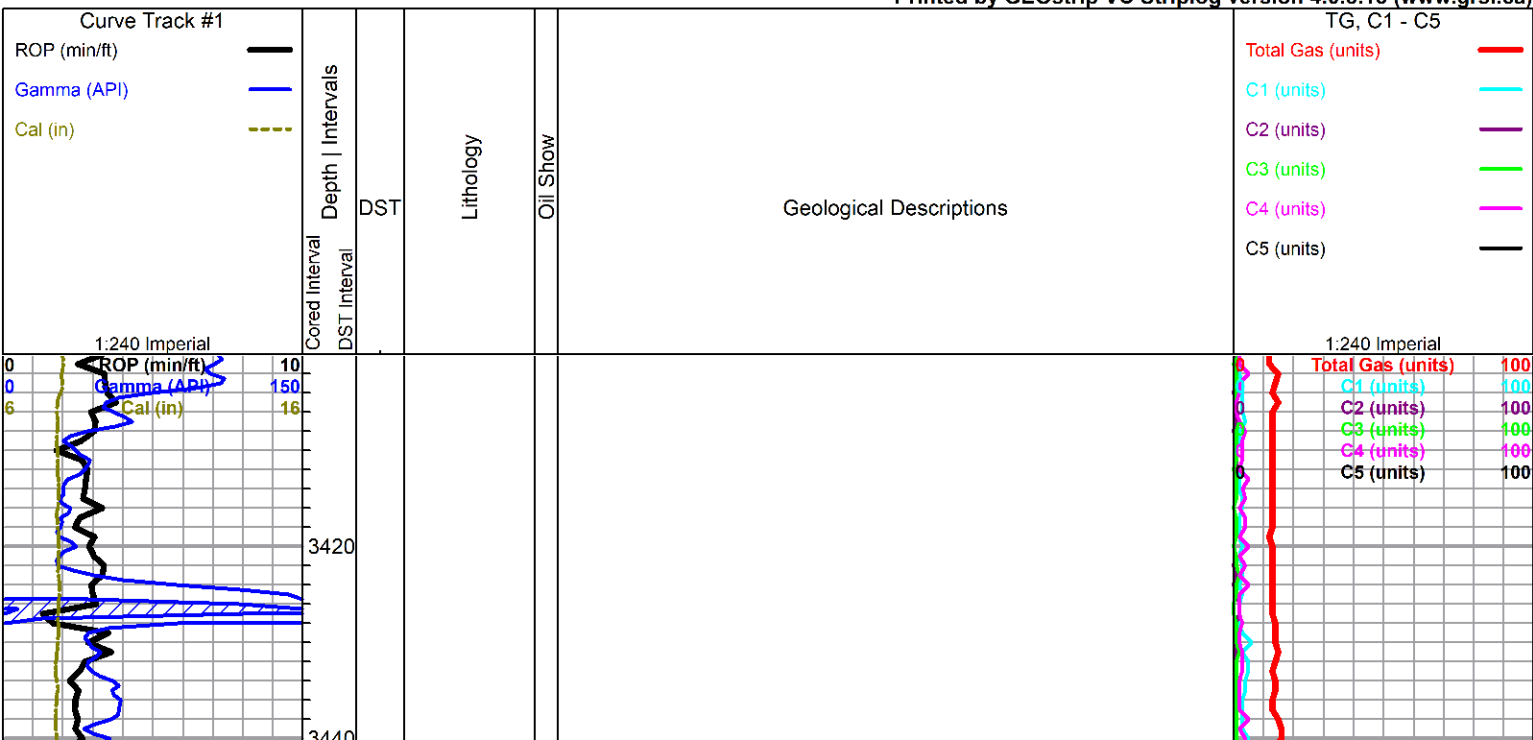
Oil Show

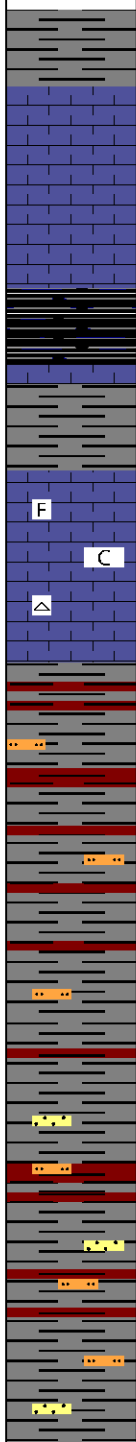
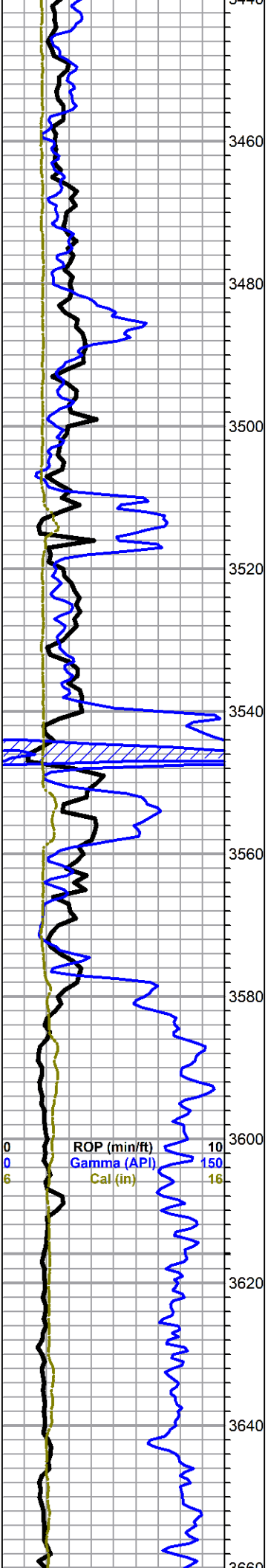
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

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begin 10 ft wet and dry samples @ 3550 ft

Heebner 3540 -1575

shale, black carbonaceous

Toronto 3559 -1594

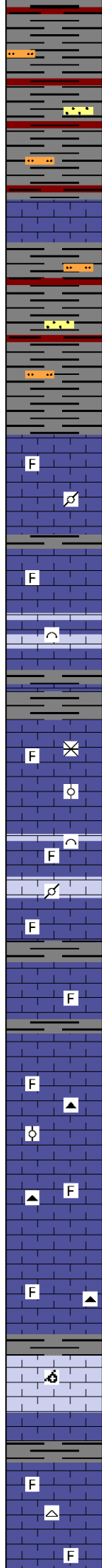
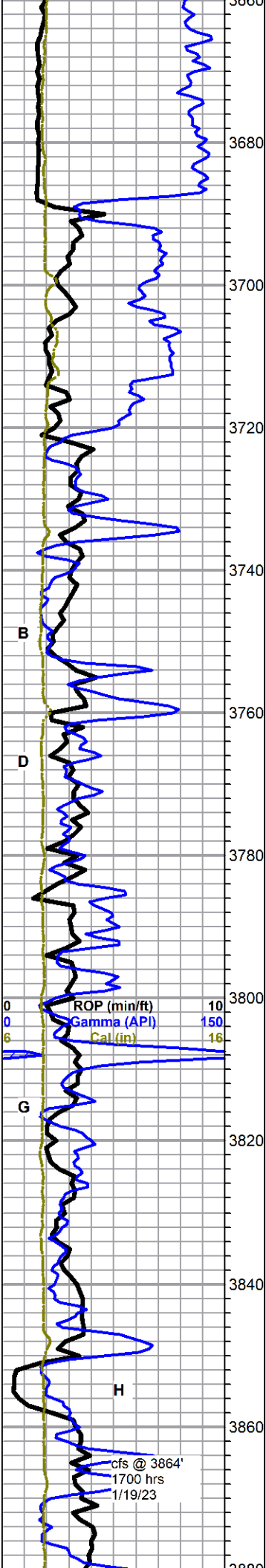
limestone, variable gray and white, microcrystalline, fossiliferous, chalky to dense, poor visible porosity, with scattered small specimens white and gray frosted chert, fossiliferous, no shows

Douglas 3579 -1614

shale, gray and red, silty, some gray micaceous, scattered gray micaceous siltstone

a.a., some scattered very fine grain, gray/green, shaley and micaceous sandstone

Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100
C5 (units)	100



a.a.

Brown Lime 3688 -1723

limestone, brown to dark gray, cryptocrystalline, fossiliferous, some large clasts, dense, no show

shales somewhat darker, some mushy, heavy gray wash

Lansing 3721 -1756

limestone, variable gray, mottled, microcrystalline, re-crystallized fossiliferous and pelletal, some large clasts, poor visible porosity, no shows

limestone, white to light gray, cryptocrystalline, fossiliferous with some fractures, dense, some grainy friable bioclastic, poor visible overall porosity, no shows, moderate chalk

limestone, white to light gray, some brown, variable chalky to dense, fossiliferous, some oolitic (dense), some chalk, scattered loose calcite, no shows

limestone, brown to gray, cryptocrystalline, fossiliferous to pelletal, some scattered friable light gray bioclastic, abundant light gray weathered, chalky, pelletal, no shows

limestone, variable gray, brown and cream, micro-cryptocrystalline, fossiliferous, traces oolitic, mostly dense, cherty, poor visible porosity, abundant gray fossiliferous cherts, no shows

limestone, cream to tan, oomoldic, good oomold porosity, barren, abundant cherts probably from above

limestone, light gray to cream, mostly cryptocrystalline, fossiliferous, scattered sub-oolitic, grainy in part, chalky in part, poor visible porosity, abundant white cherts, no shows

Mud-Co Mud chk
@ 3690 ft.
0815 hrs. 1/19/23
Vis. 48 Wt. 9.4
PV 14 YP 14
WL 8.8
Cake 1/32,
pH 10.5
CHL 4000 ppm
Ca 80 ppm
Sol 7.6 LCM 2#
DMC \$864.03
CMC \$11,351.25

working on tooke daq
system - recalibrate

Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100
C5 (units)	100

