

Form	ACO1 - Well Completion
Operator	Val Energy, Inc.
Well Name	BOYNGTON 1-13
Doc ID	1658818

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	24	366	H325	265	NA



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc.

125 N. Market St STE 1110
Wichita, KS 67202

ATTN: Tim Priest

13/8s/37w Sheridan KS

Boyngton #1-13

Job Ticket: 67333

DST#: 1

Test Start: 2022.07.02 @ 22:45:00

GENERAL INFORMATION:

Formation: **Lans. "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:14:36

Time Test Ended: 07:32:35

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

Interval: 4237.00 ft (KB) To 4268.00 ft (KB) (TVD)

Total Depth: 4268.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: 123.07 psig @ 4238.00 ft (KB)

Start Date: 2022.07.02

End Date:

2022.07.03

Start Time: 22:45:01

End Time:

07:32:35

Capacity: 8000.00 psig

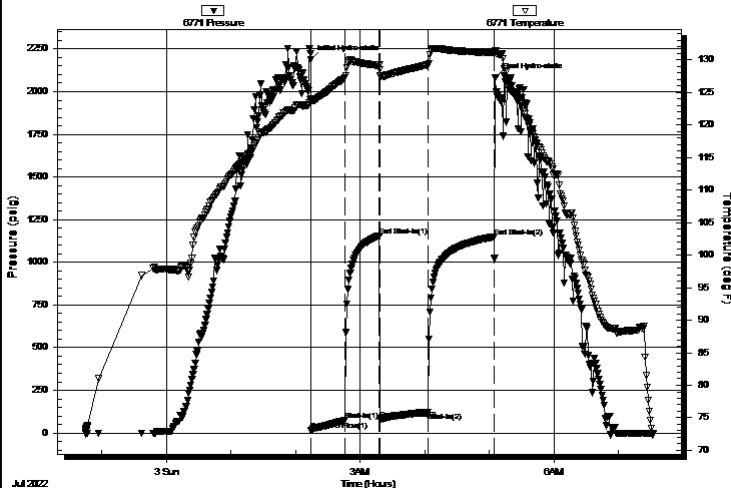
Last Calib.: 2022.07.03

Time On Btm: 2022.07.03 @ 02:14:21

Time Off Btm: 2022.07.03 @ 05:05:51

TEST COMMENT: 30 - IF: Blow built to 1 3/4"
30 - IS: No blow
45 - FF: Blow built to 1 1/4"
60 - FSI: No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.37	124.07	Initial Hydro-static
1	17.53	123.55	Open To Flow (1)
32	75.14	127.25	Shut-In(1)
64	1156.50	129.16	End Shut-In(1)
64	77.35	128.48	Open To Flow (2)
109	123.07	129.24	Shut-In(2)
171	1149.19	131.10	End Shut-In(2)
172	2084.34	131.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	MCW 63%w, 37%m	1.31

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Val Energy Inc.

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Boynton #1-13

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Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 4238.00 ft (KB)

Start Date: 2022.07.02

End Date:

2022.07.03

Start Time: 22:45:01

End Time:

07:32:35

Capacity: 8000.00 psig

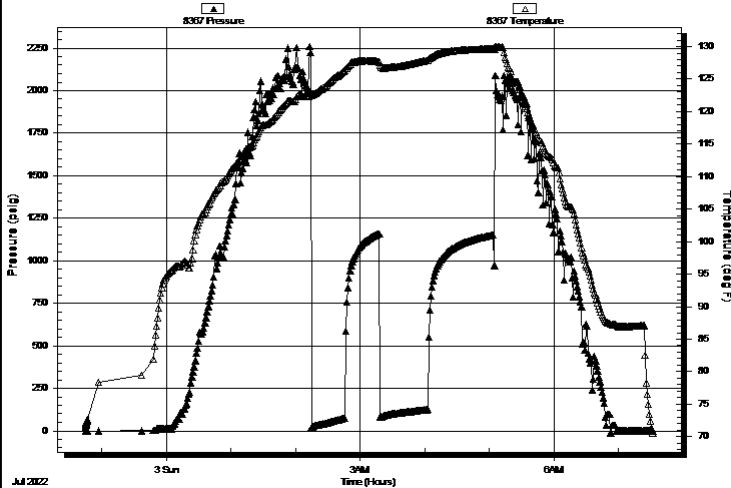
Last Calib.: 2022.07.03

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 1 3/4"
30 - IS: No blow
45 - FF: Blow built to 1 1/4"
60 - FS: No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
210.00	MCW 63%w, 37%m	1.31

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

13/8s/37w Sheridan KS

125 N. Market St STE 1110
Wichita, KS 67202

Boyngton #1-13

Job Ticket: 67333

DST#: 1

ATTN: Tim Priest

Test Start: 2022.07.02 @ 22:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 67.00 sec/qt

Water Loss: 6.40 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 59000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	MCW 63%w , 37%m	1.306

Total Length: 210.00 ft Total Volume: 1.306 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .142 ohms @ 66.1 deg F Chlorides = 59,000 ppm

Serial #: 6771

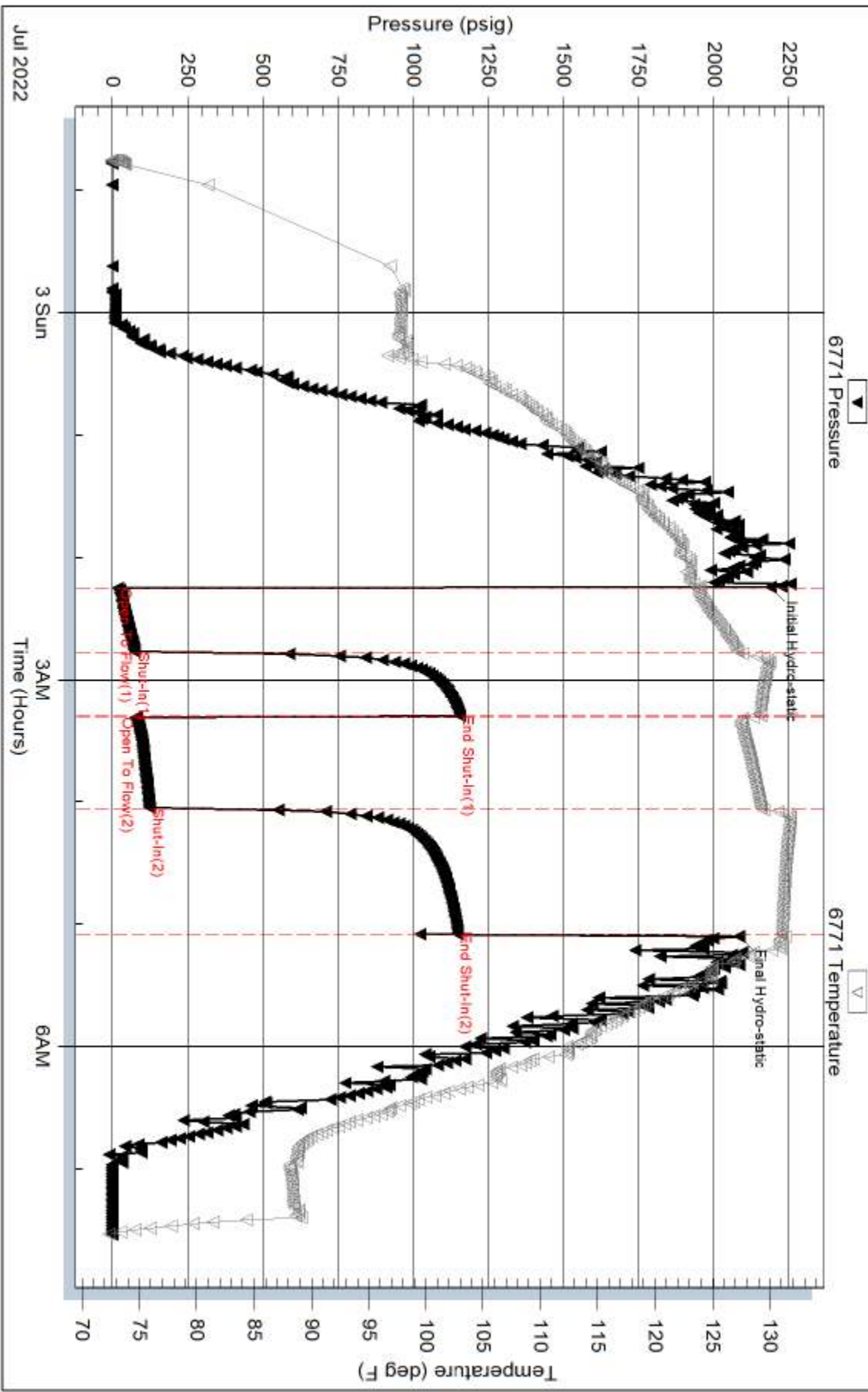
Inside

Val Energy Inc.

Boyngton #1-13

DST Test Number: 1

Pressure vs. Time

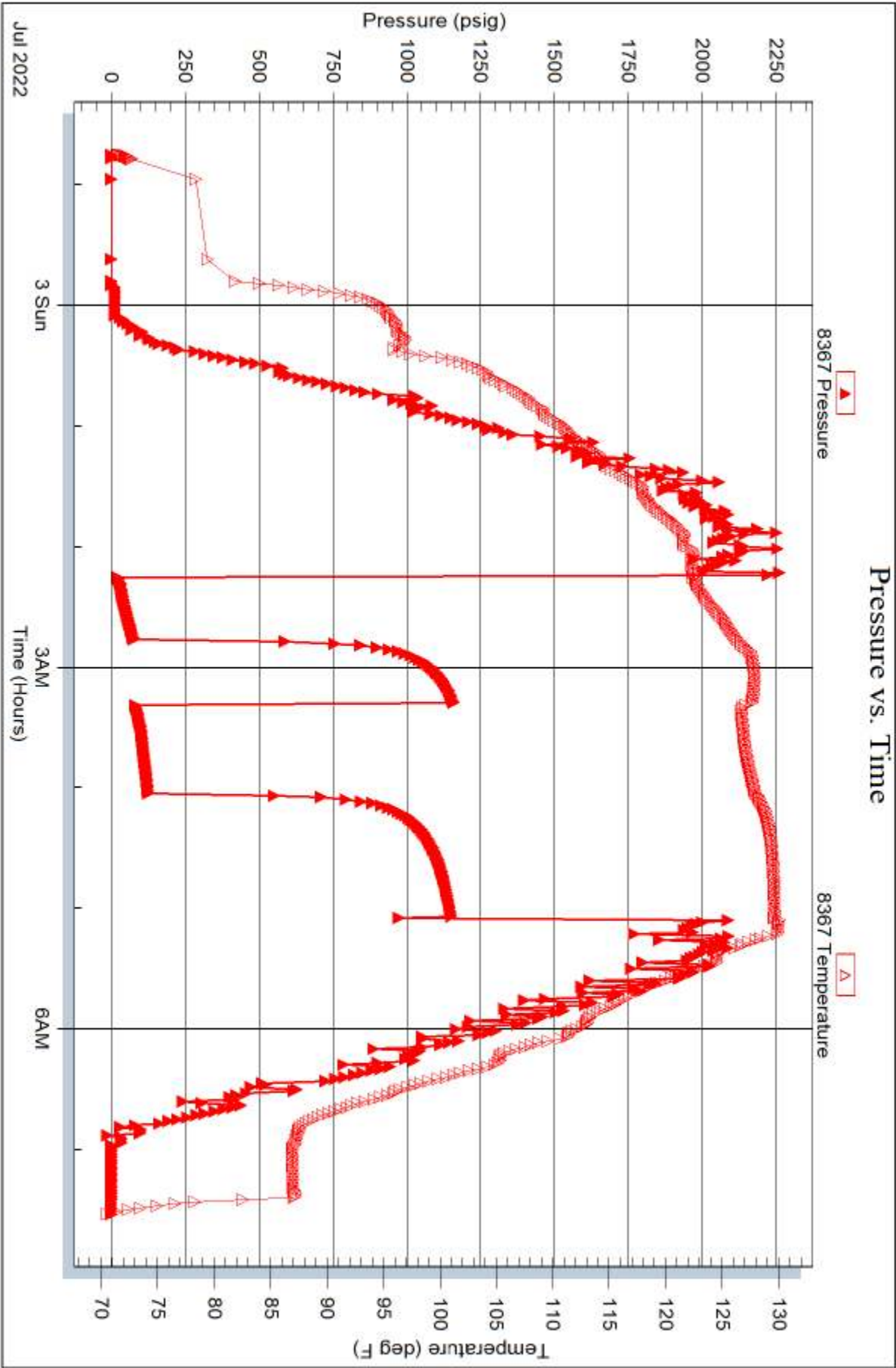


Serial #: 8367

Outside Val Energy Inc.

Boyngton #1-13

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc.

125 N. Market St STE 1110
Wichita, KS 67202

ATTN: Tim Priest

13/8s/37w Sheridan KS

Boynton #1-13

Job Ticket: 67334

DST#: 2

Test Start: 2022.07.03 @ 16:35:00

GENERAL INFORMATION:

Formation: **Lans. "D - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:45:36

Time Test Ended: 23:06:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4292.00 ft (KB) To 4323.00 ft (KB) (TVD)

Total Depth: 4323.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: 21.05 psig @ 4293.00 ft (KB)

Start Date: 2022.07.03

End Date:

2022.07.03

Start Time: 16:35:01

End Time:

23:06:51

Capacity: 8000.00 psig

Last Calib.: 2022.07.03

Time On Btm: 2022.07.03 @ 18:45:21

Time Off Btm: 2022.07.03 @ 20:48:21

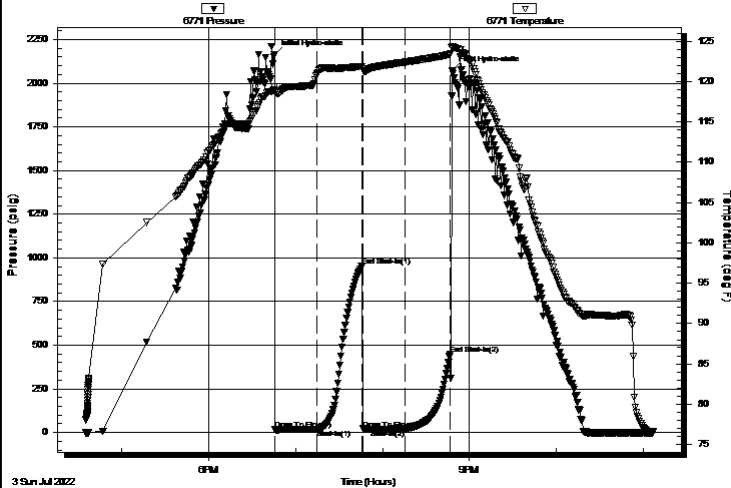
TEST COMMENT: 30 - IF: Blow built to 1/4", died back, dead by 25 min.

30 - IS: No blow

30 - FF: No blow

30 - FSI: No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.82	119.37	Initial Hydro-static
1	16.48	118.88	Open To Flow (1)
30	20.20	120.90	Shut-In(1)
61	953.99	121.90	End Shut-In(1)
61	21.12	121.57	Open To Flow (2)
91	21.05	122.43	Shut-In(2)
122	449.95	123.41	End Shut-In(2)
123	2073.42	124.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 95%o, 5%o	0.05
5.00	SMCO 95%o, 5%m	0.02

Gas Rates

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



TRILOBITE
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DRILL STEM TEST REPORT

Val Energy Inc.

125 N. Market St STE 1110
Wichita, KS 67202

ATTN: Tim Priest

13/8s/37w Sheridan KS

Boynton #1-13

Job Ticket: 67334

DST#: 2

Test Start: 2022.07.03 @ 16:35:00

GENERAL INFORMATION:

Formation: **Lans. "D - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:45:36

Time Test Ended: 23:06:51

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4292.00 ft (KB) To 4323.00 ft (KB) (TVD)

Total Depth: 4323.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 4293.00 ft (KB)

Start Date: 2022.07.03

End Date:

2022.07.03

Start Time: 16:35:01

End Time:

23:06:36

Capacity: 8000.00 psig

Last Calib.: 2022.07.03

Time On Btm:

Time Off Btm:

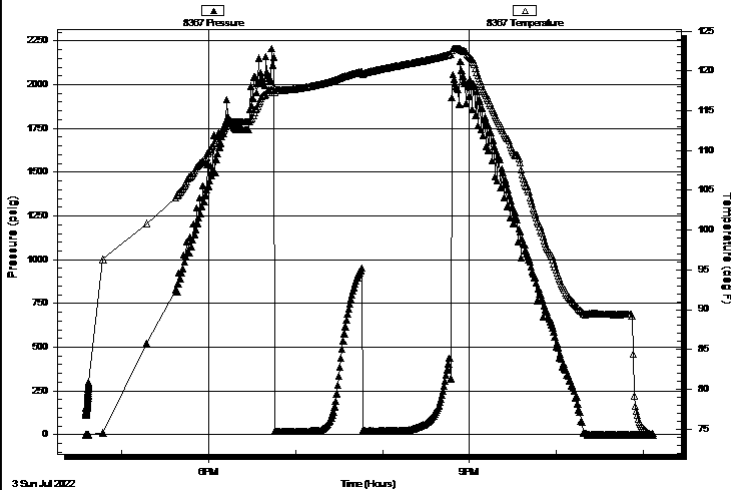
TEST COMMENT: 30 - IF: Blow built to 1/4", died back, dead by 25 min.

30 - IS: No blow

30 - FF: No blow

30 - FSI: No blow

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	SOCM 95% _m , 5% _o	0.05
5.00	SMCO 95% _o , 5% _m	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

FLUID SUMMARY

Val Energy Inc.

13/8s/37w Sheridan KS

125 N. Market St STE 1110
Wichita, KS 67202

Boyngton #1-13

Job Ticket: 67334

DST#: 2

ATTN: Tim Priest

Test Start: 2022.07.03 @ 16:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

32.6 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 95% _m , 5% _o	0.049
5.00	SMCO 95% _o , 5% _m	0.025

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 34.6 api @ 80 deg F Corrected Gravity = 32.6 api

Serial #: 6771

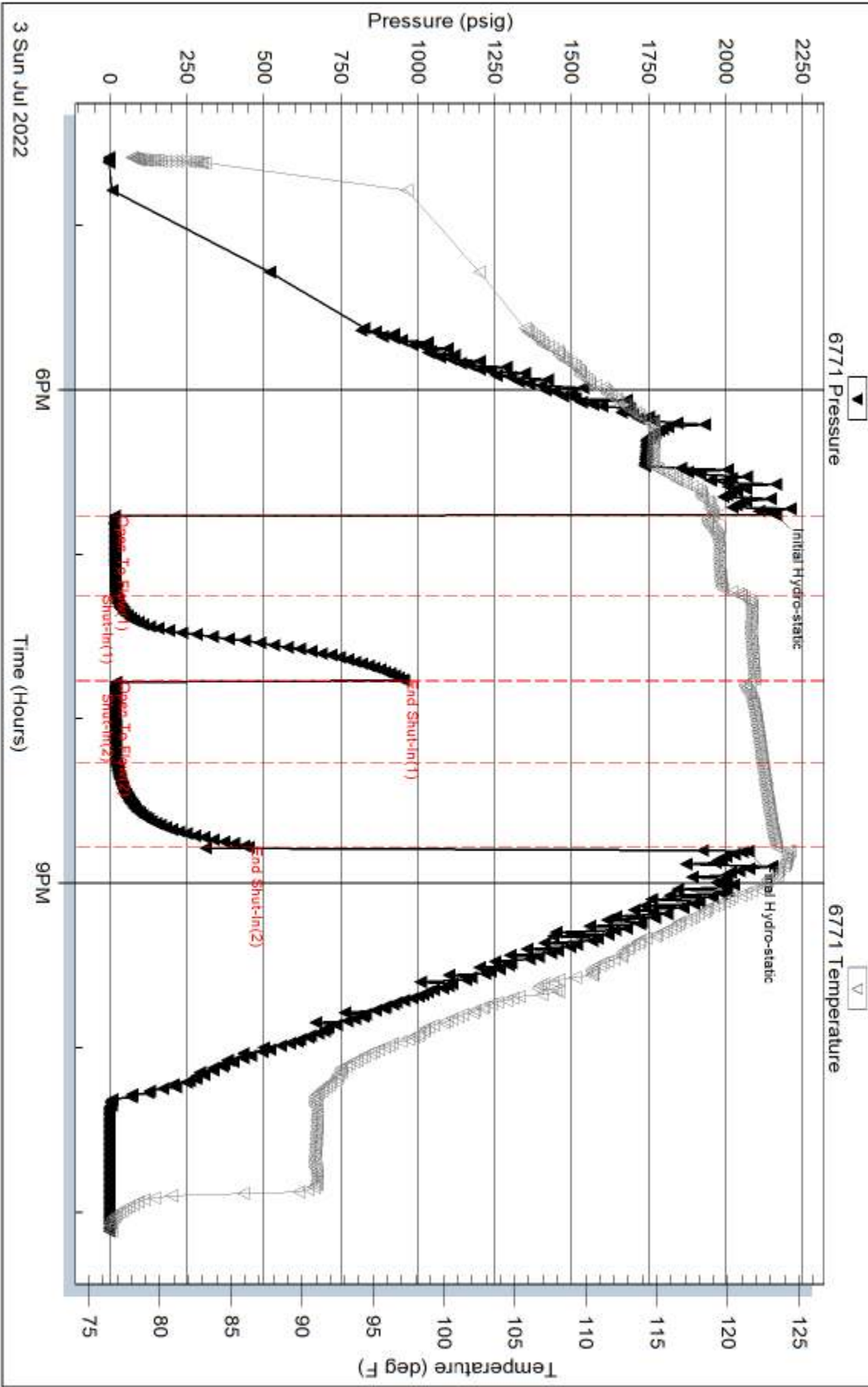
Inside

Val Energy Inc.

Boyngton #1-13

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 67334

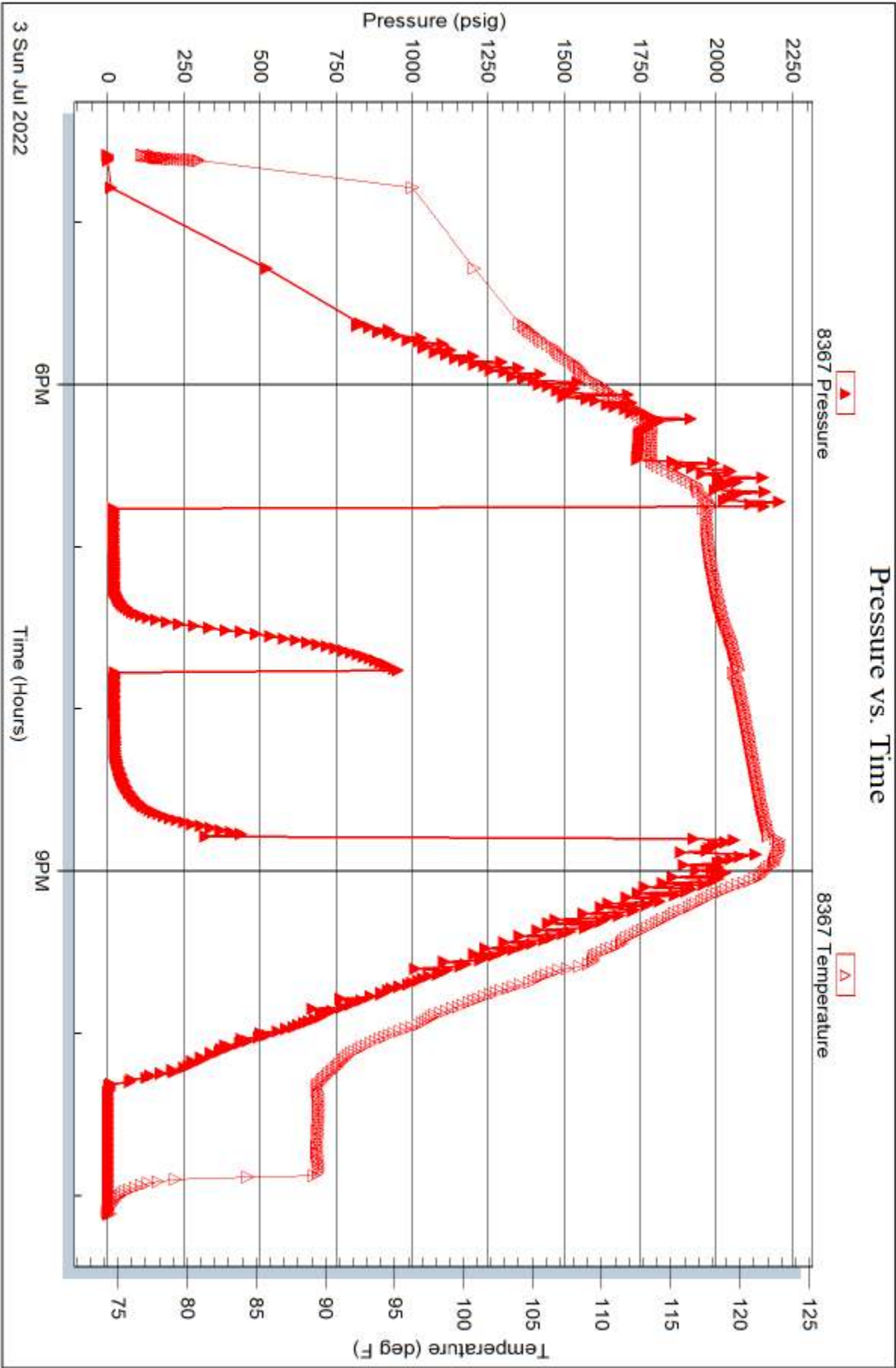
Printed: 2022.07.04 @ 07:43:40

Serial #: 8367

Outside Val Energy Inc.

Boyngton #1-13

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc.

125 N. Market St STE 1110
Wichita, KS 67202

ATTN: Tim Priest

13/8s/37w Sheridan KS

Boyngton #1-13

Job Ticket: 67335

DST#: 3

Test Start: 2022.07.04 @ 13:26:00

GENERAL INFORMATION:

Formation: **Lans. "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:43:06

Time Test Ended: 20:23:36

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4376.00 ft (KB) To 4445.00 ft (KB) (TVD)

Total Depth: 4445.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: 22.52 psig @ 4377.00 ft (KB)

Start Date: 2022.07.04

End Date:

2022.07.04

Start Time: 13:26:01

End Time:

20:23:36

Capacity: 8000.00 psig

Last Calib.: 2022.07.04

Time On Btm: 2022.07.04 @ 15:42:51

Time Off Btm: 2022.07.04 @ 17:48:21

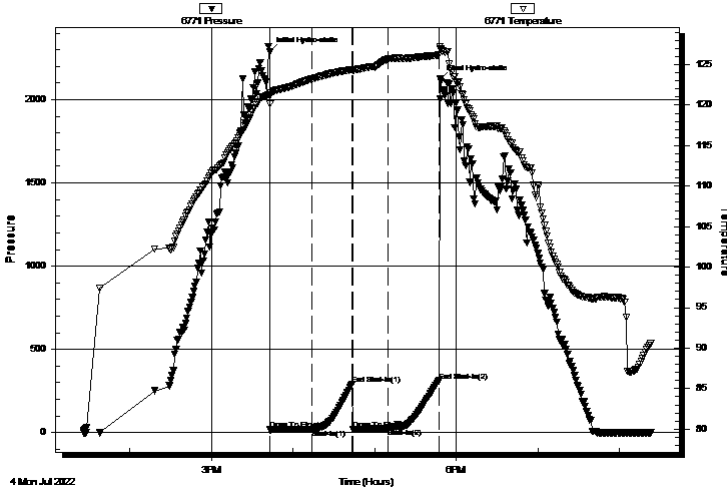
TEST COMMENT: 30 - IF: Surface blow, dead at 20 min.

30 - ISI: No blow

30 - FF: No blow

30 - FSI: No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.93	121.30	Initial Hydro-static
1	16.93	120.19	Open To Flow (1)
32	19.90	123.25	Shut-In(1)
61	292.12	124.39	End Shut-In(1)
61	18.94	124.28	Open To Flow (2)
88	22.52	125.68	Shut-In(2)
125	311.22	126.18	End Shut-In(2)
126	2123.33	127.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 95% m, 5% o	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

Val Energy Inc.

125 N. Market St STE 1110
Wichita, KS 67202

ATTN: Tim Priest

13/8s/37w Sheridan KS

Boyington #1-13

Job Ticket: 67335

DST#: 3

Test Start: 2022.07.04 @ 13:26:00

GENERAL INFORMATION:

Formation: **Lans. "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:43:06

Time Test Ended: 20:23:36

Interval: 4376.00 ft (KB) To 4445.00 ft (KB) (TVD)

Total Depth: 4445.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 4377.00 ft (KB)

Start Date: 2022.07.04 End Date: 2022.07.04

Start Time: 13:26:01 End Time: 20:23:36

Capacity: 8000.00 psig

Last Calib.: 2022.07.04

Time On Btm:

Time Off Btm:

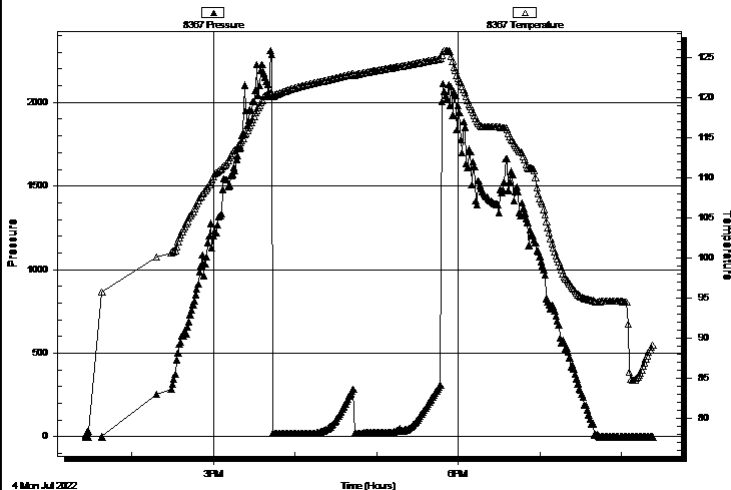
TEST COMMENT: 30 - IF: Surface blow, dead at 20 min.

30 - ISI: No blow

30 - FF: No blow

30 - FSI: No blow

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	SOCM 95% m, 5% o	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

FLUID SUMMARY

Val Energy Inc.

13/8s/37w Sheridan KS

125 N. Market St STE 1110
Wichita, KS 67202

Boyngton #1-13

Job Ticket: 67335

DST#: 3

ATTN: Tim Priest

Test Start: 2022.07.04 @ 13:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 77.00 sec/qt

Water Loss: 7.20 in³

Resistivity: ohm.m

Salinity: 5500.00 ppm

Filter Cake: 1.00 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	SOCM 95% m, 5% o	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 #: 6771

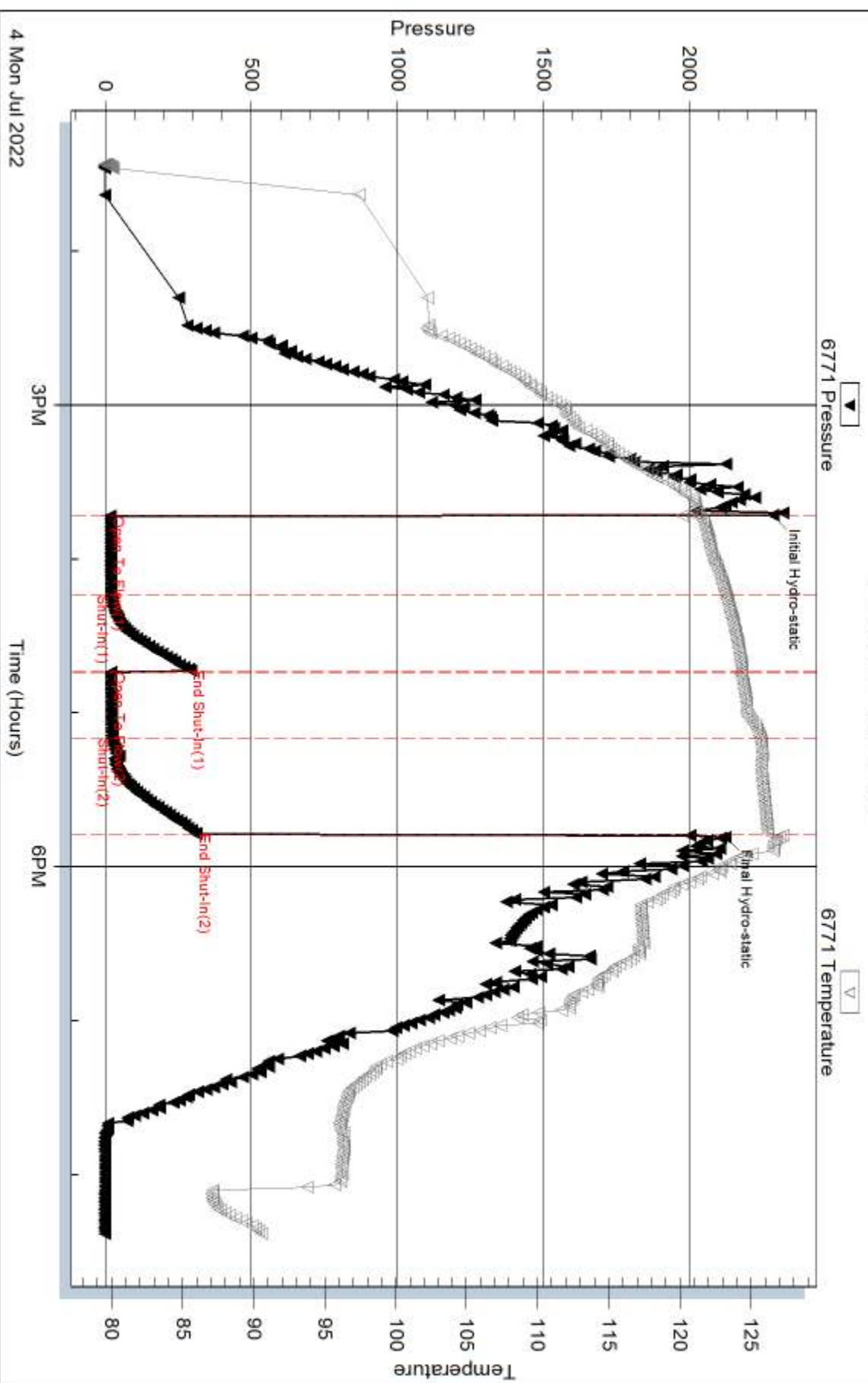
Inside

Val Energy Inc.

Boyngton #1-13

DST Test Number: 3

Pressure vs. Time

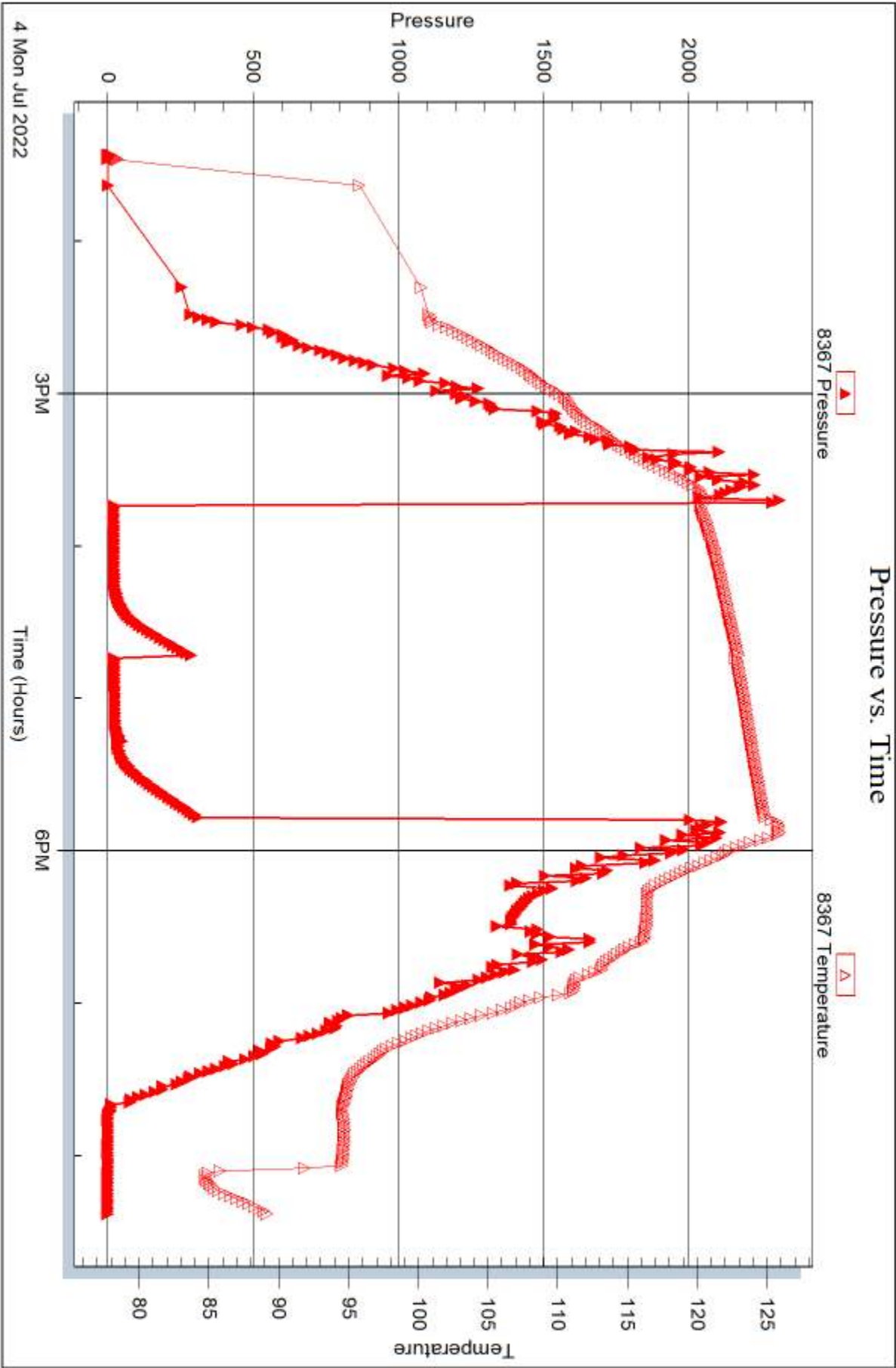


Serial #: 8367

Outside Val Energy Inc.

Boyngton #1-13

DST Test Number: 3





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc.

125 N. Market St STE 1110
Wichita, KS 67202

ATTN: Tim Priest

13/8s/37w Sheridan KS

Boyngton #1-13

Job Ticket: 67336

DST#: 4

Test Start: 2022.07.05 @ 13:45:00

GENERAL INFORMATION:

Formation: **Lans. 'L' - Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:11:51

Time Test Ended: 21:00:21

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4470.00 ft (KB) To 4588.00 ft (KB) (TVD)

Total Depth: 4588.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: 81.34 psig @ 4471.00 ft (KB)

Start Date: 2022.07.05

End Date:

2022.07.05

Start Time: 13:45:01

End Time:

21:00:21

Capacity: 8000.00 psig

Last Calib.: 2022.07.05

Time On Btm: 2022.07.05 @ 16:11:36

Time Off Btm: 2022.07.05 @ 18:17:36

TEST COMMENT: 30 - IF: Blow built to 1 3/4"

30 - IS: No blow

30 - FF: Blow built to 1"

30 - FSI: No blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2321.26	121.36	Initial Hydro-static
1	18.97	120.60	Open To Flow (1)
32	47.72	123.90	Shut-In(1)
61	1215.96	124.96	End Shut-In(1)
62	48.83	124.24	Open To Flow (2)
92	81.34	126.58	Shut-In(2)
125	1176.58	127.41	End Shut-In(2)
126	2234.64	127.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WM 59%w, 41%w	0.59
30.00	Mud 100%	0.15

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Val Energy Inc.

125 N. Market St STE 1110
Wichita, KS 67202

ATTN: Tim Priest

13/8s/37w Sheridan KS

Boyngton #1-13

Job Ticket: 67336

DST#: 4

Test Start: 2022.07.05 @ 13:45:00

GENERAL INFORMATION:

Formation: **Lans. 'L' - Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:11:51

Time Test Ended: 21:00:21

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 73

Interval: 4470.00 ft (KB) To 4588.00 ft (KB) (TVD)

Total Depth: 4588.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 4471.00 ft (KB)

Start Date: 2022.07.05

End Date:

2022.07.05

Start Time: 13:45:01

End Time:

21:00:06

Capacity: 8000.00 psig

Last Calib.: 2022.07.05

Time On Btm:

Time Off Btm:

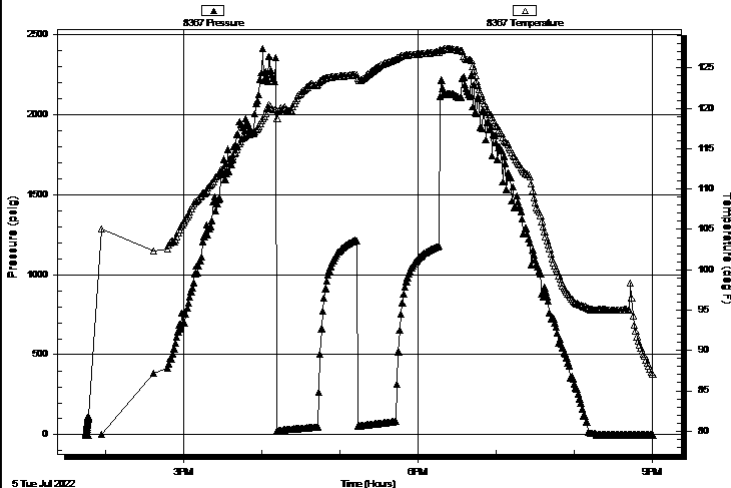
TEST COMMENT: 30 - IF: Blow built to 1 3/4"

30 - IS: No blow

30 - FF: Blow built to 1"

30 - FSI: No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
120.00	WM 59% _m , 41% _w	0.59
30.00	Mud 100%	0.15

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

FLUID SUMMARY

Val Energy Inc.

13/8s/37w Sheridan KS

125 N. Market St STE 1110
Wichita, KS 67202

Boyngton #1-13

Job Ticket: 67336

DST#: 4

ATTN: Tim Priest

Test Start: 2022.07.05 @ 13:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 76.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 17000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WM 59%m, 41%w	0.590
30.00	Mud 100%	0.148

Total Length: 150.00 ft Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .330 ohms @ 85.5 deg F Chlorides = 17,000 ppm

Serial #: 6771

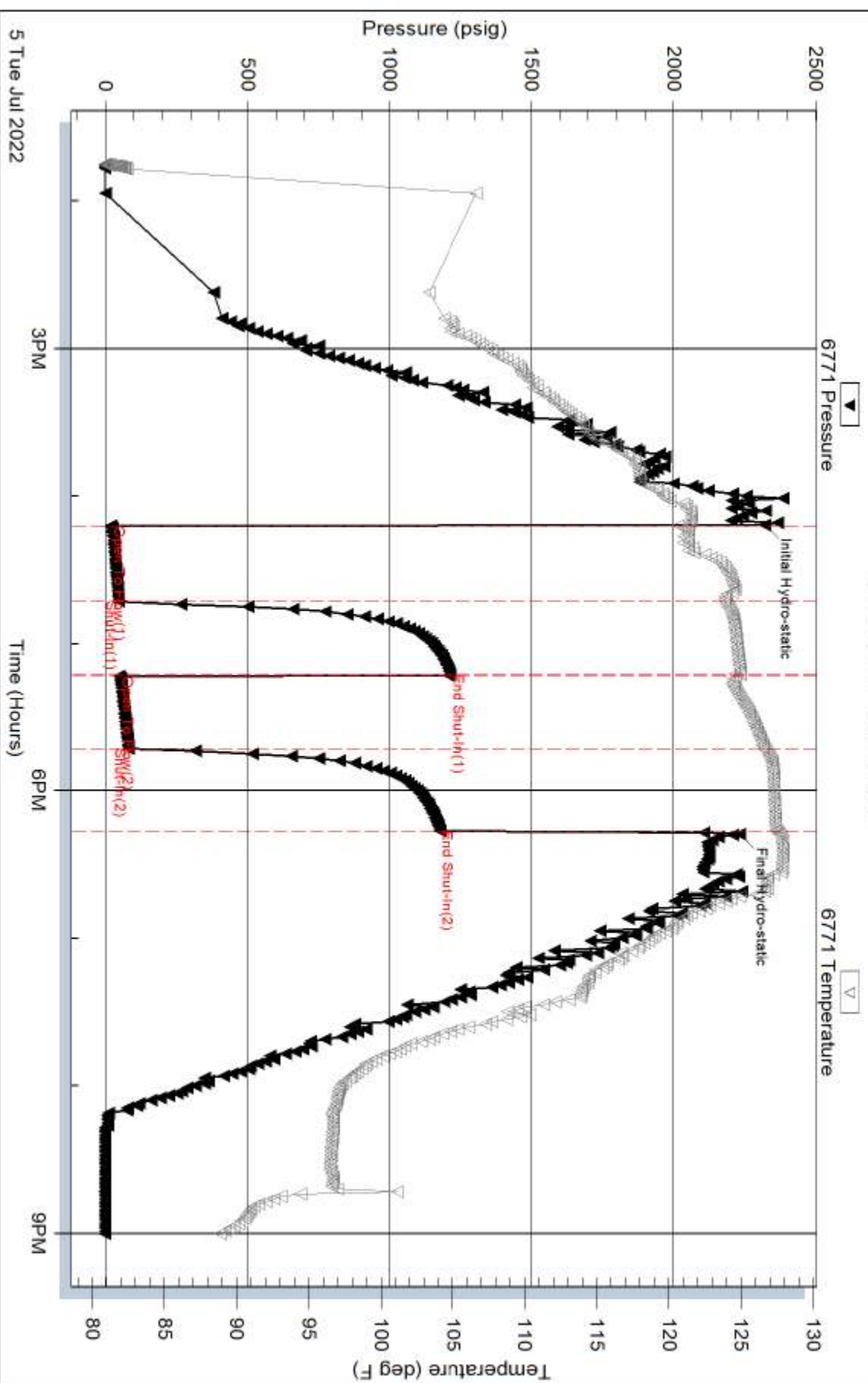
Inside

Val Energy Inc.

Boyngton #1-13

DST Test Number: 4

Pressure vs. Time



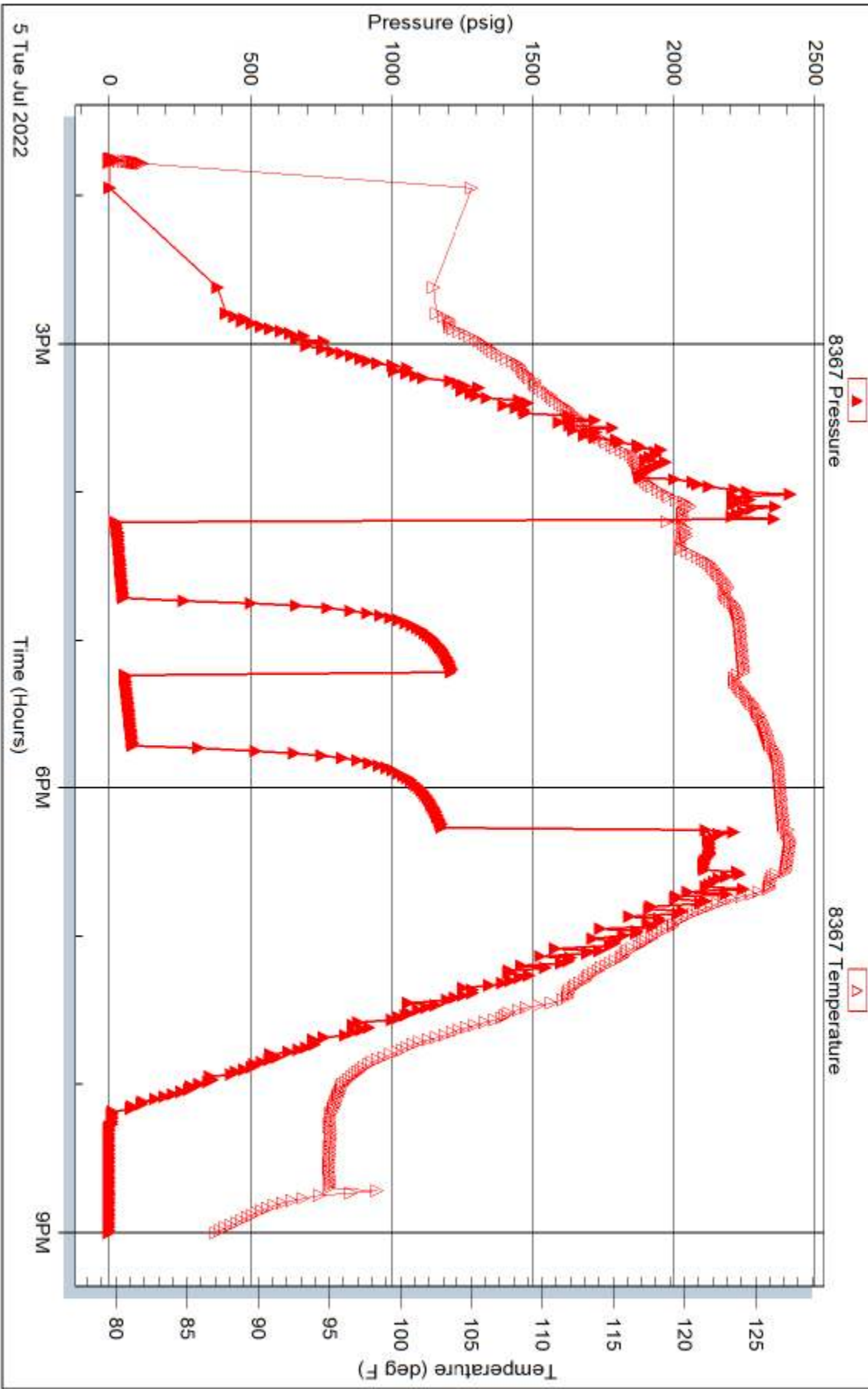
Serial #: 8367

Outside Val Energy Inc.

Boyngton #1-13

DST Test Number: 4

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Val Energy Inc.

125 N. Market St STE 1110
Wichita, KS 67202

ATTN: Tim Priest

13/8s/37w Sheridan KS

Boyngton #1-13

Job Ticket: 69114

DST#: 5

Test Start: 2022.07.06 @ 08:58:00

GENERAL INFORMATION:

Formation: **Altamont C & Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:19:00

Time Test Ended: 15:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 4601.00 ft (KB) To 4660.00 ft (KB) (TVD)

Total Depth: 4660.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 24.19 psig @ 4602.00 ft (KB)

Start Date: 2022.07.06

End Date:

2022.07.06

Start Time: 08:58:05

End Time:

15:26:29

Capacity: 8000.00 psig

Last Calib.: 2022.07.06

Time On Btm: 2022.07.06 @ 11:18:45

Time Off Btm: 2022.07.06 @ 13:20:30

TEST COMMENT: IF-30- Weak surface blow

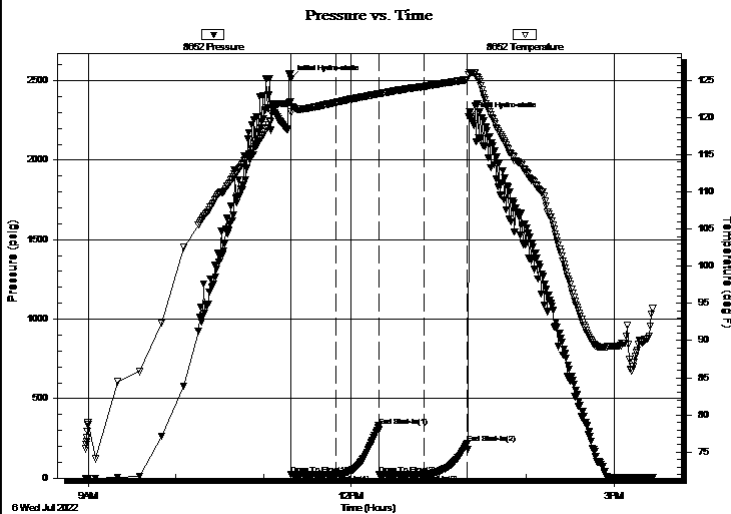
SI1-30- No return

FF-30- No blow

SI2-30- No return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2509.46	122.11	Initial Hydro-static
1	23.57	120.70	Open To Flow (1)
31	25.04	122.00	Shut-In(1)
60	328.64	123.18	End Shut-In(1)
61	23.34	123.16	Open To Flow (2)
92	24.19	124.17	Shut-In(2)
121	218.00	125.08	End Shut-In(2)
122	2272.90	125.76	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% oil spots in tool	0.00

Gas Rates

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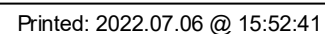
* Recovery from multiple tests



ATTN: Tim Priest

KB to GR/CF: 5.00 ft

SI2-30- No return





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Val Energy Inc.

13/8s/37w Sheridan KS

125 N. Market St STE 1110
Wichita, KS 67202

Boyngton #1-13

Job Ticket: 69114

DST#: 5

ATTN: Tim Priest

Test Start: 2022.07.06 @ 08:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 69.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 6600.00 ppm

Filter Cake: 1.00 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
1.00	mud 100% oil spots in tool	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

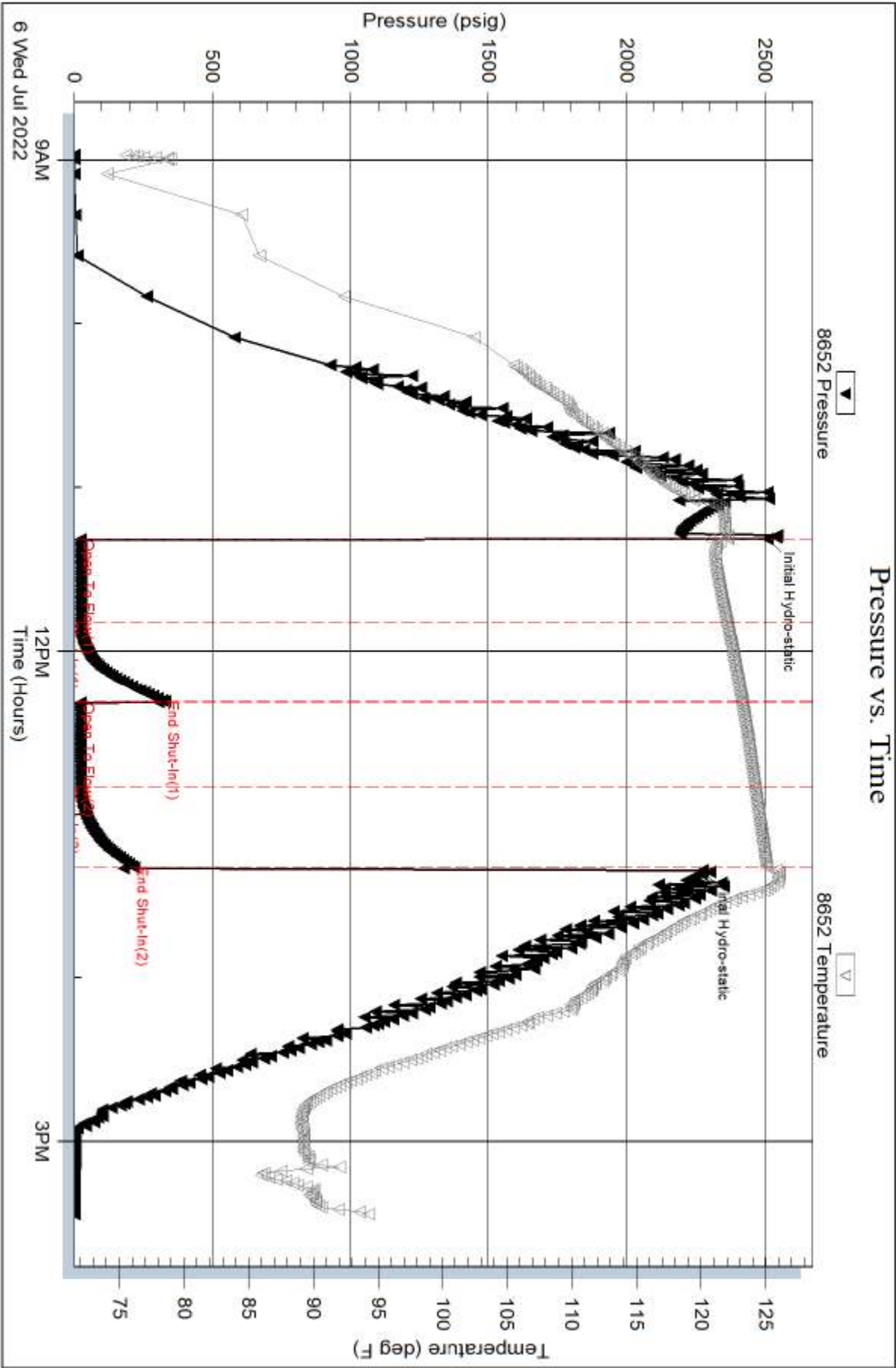
Recovery Comments: 1# LCM

Serial #: 8652

Outside Val Energy Inc.

Boyngton #1-13

DST Test Number: 5



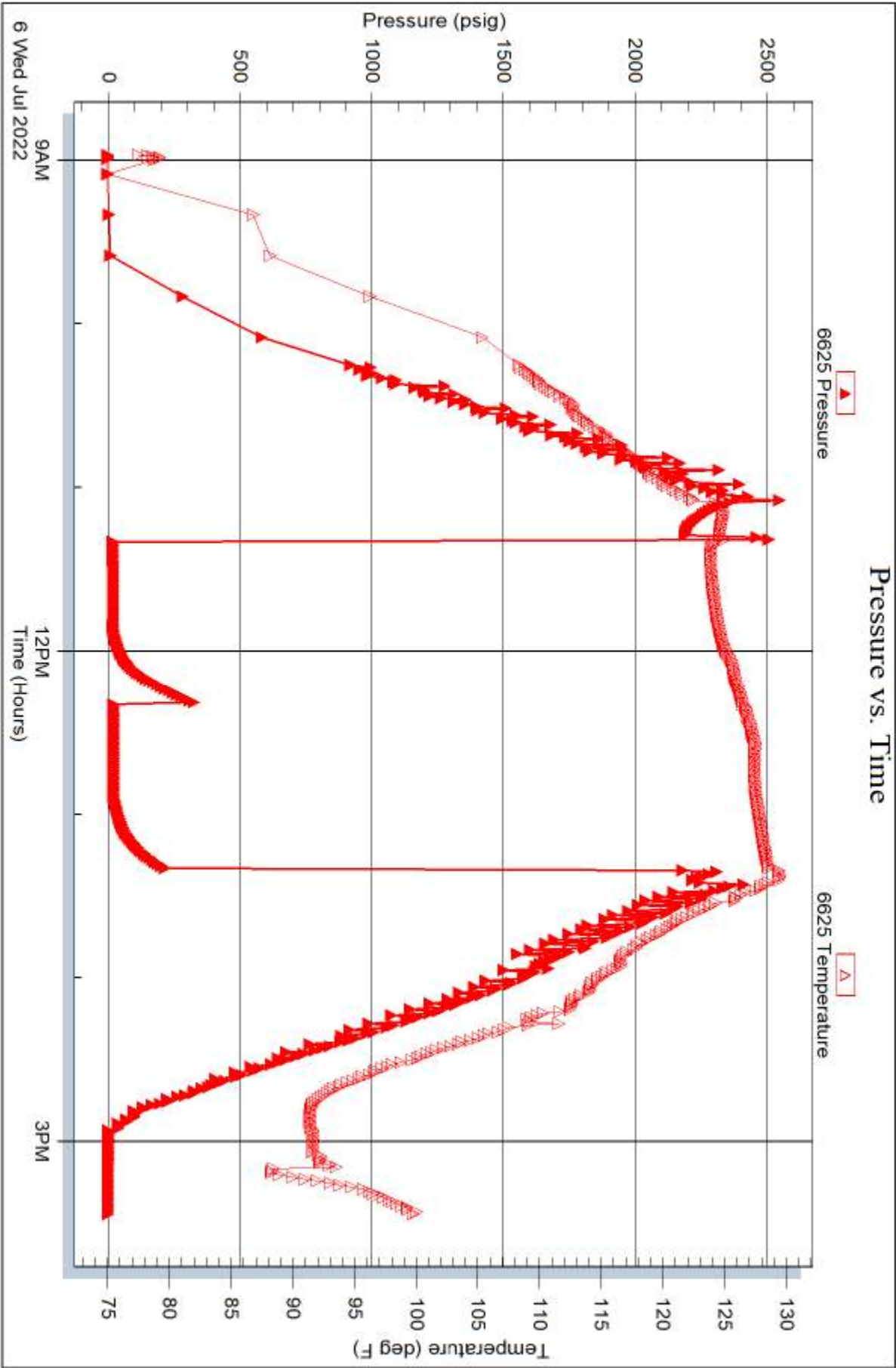
Serial #: 6625

Inside

Val Energy Inc.

Boyngton #1-13

DST Test Number: 5





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Val Energy Inc.

13/8s/37w Sherman KS

125 N. Market St STE 1110
Wichita, KS 67202

Boyngton #1-13

Job Ticket: 69115

DST#: 6

ATTN: Tim Priest

Test Start: 2022.07.07 @ 06:02:00

GENERAL INFORMATION:

Formation: **Cherokee-Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:20:30

Time Test Ended: 12:31:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 73

Interval: 4729.00 ft (KB) To 4783.00 ft (KB) (TVD)

Total Depth: 4783.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8652 Outside

Press@RunDepth: 33.42 psig @ 4730.00 ft (KB)

Start Date: 2022.07.07

End Date:

2022.07.07

Start Time: 06:02:05

End Time:

12:31:44

Capacity: 8000.00 psig

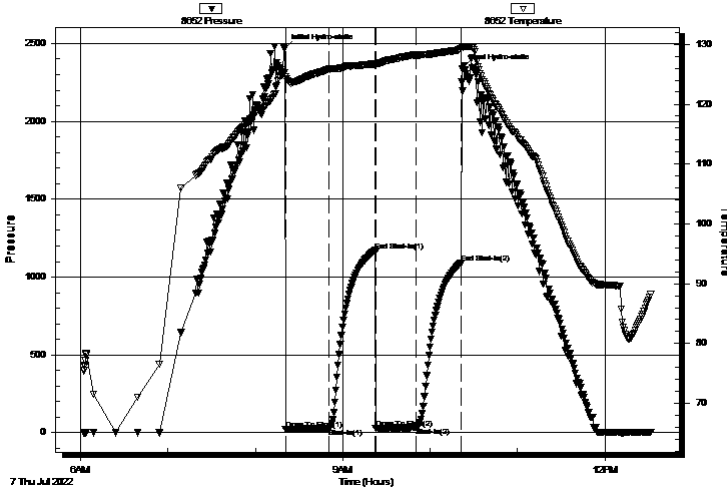
Last Calib.: 2022.07.07

Time On Btm: 2022.07.07 @ 08:20:15

Time Off Btm: 2022.07.07 @ 10:21:45

TEST COMMENT: IF-30- Built to 1"
SI1-30- No return
FF-30- No blow
SI2-30- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2468.01	125.29	Initial Hydro-static
1	24.15	124.29	Open To Flow (1)
30	26.66	125.83	Shut-In(1)
62	1171.11	126.74	End Shut-In(1)
63	29.27	126.41	Open To Flow (2)
90	33.42	128.19	Shut-In(2)
121	1090.26	129.28	End Shut-In(2)
122	2338.17	129.57	Final Hydro-static

Recovery

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

Val Energy Inc.

125 N. Market St STE 1110
Wichita, KS 67202

ATTN: Tim Priest

13/8s/37w Sherman KS

Boyington #1-13

Job Ticket: 69115

DST#: 6

Test Start: 2022.07.07 @ 06:02:00

GENERAL INFORMATION:

Formation: **Cherokee-Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:20:30

Time Test Ended: 12:31:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 73

Interval: 4729.00 ft (KB) To 4783.00 ft (KB) (TVD)

Total Depth: 4783.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3456.00 ft (KB)

3451.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 4730.00 ft (KB)

Start Date: 2022.07.07 End Date: 2022.07.07

Start Time: 06:02:05 End Time: 12:31:44

Capacity: 8000.00 psig

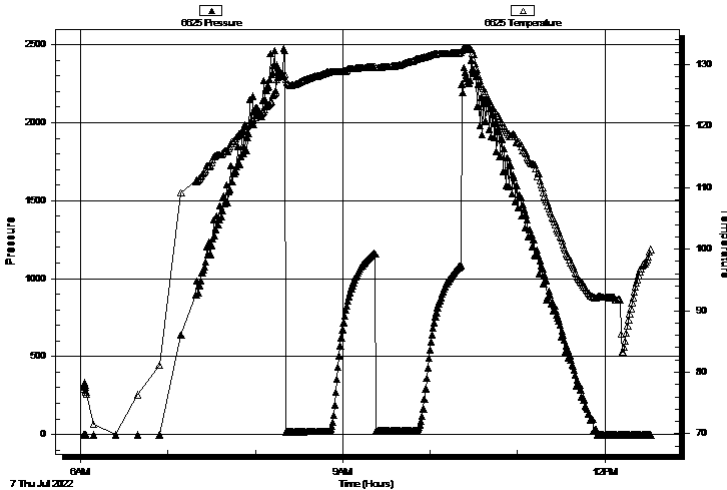
Last Calib.: 2022.07.07

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30- Built to 1"
SI1-30- No return
FF-30- No blow
SI2-30- 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	mud 100%	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

FLUID SUMMARY

Val Energy Inc.

13/8s/37w Sherman KS

125 N. Market St STE 1110
Wichita, KS 67202

Boyngton #1-13

Job Ticket: 69115

DST#: 6

ATTN: Tim Priest

Test Start: 2022.07.07 @ 06:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 69.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 6600.00 ppm

Filter Cake: 1.00 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	mud 100%	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

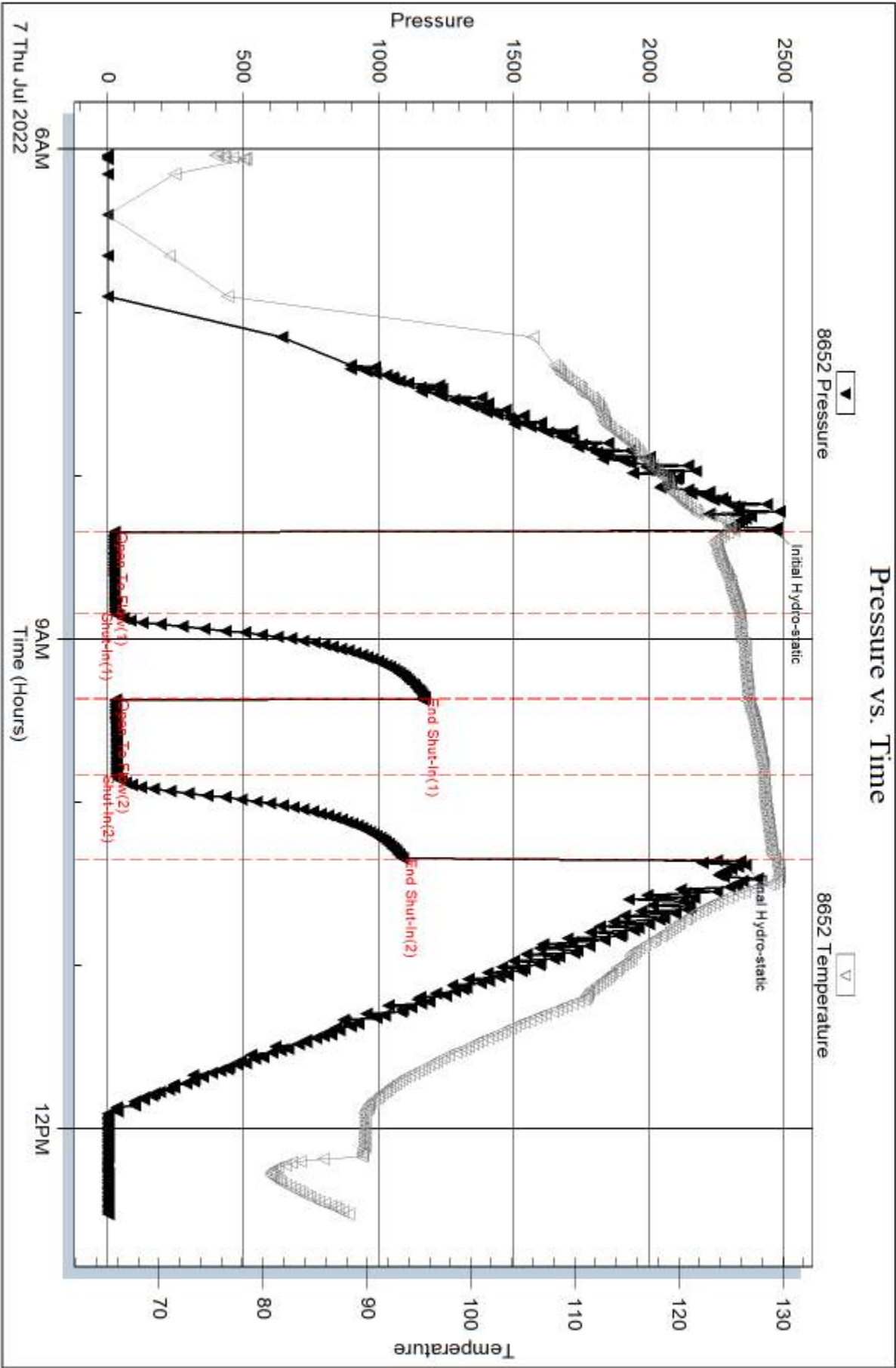
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1# LCM



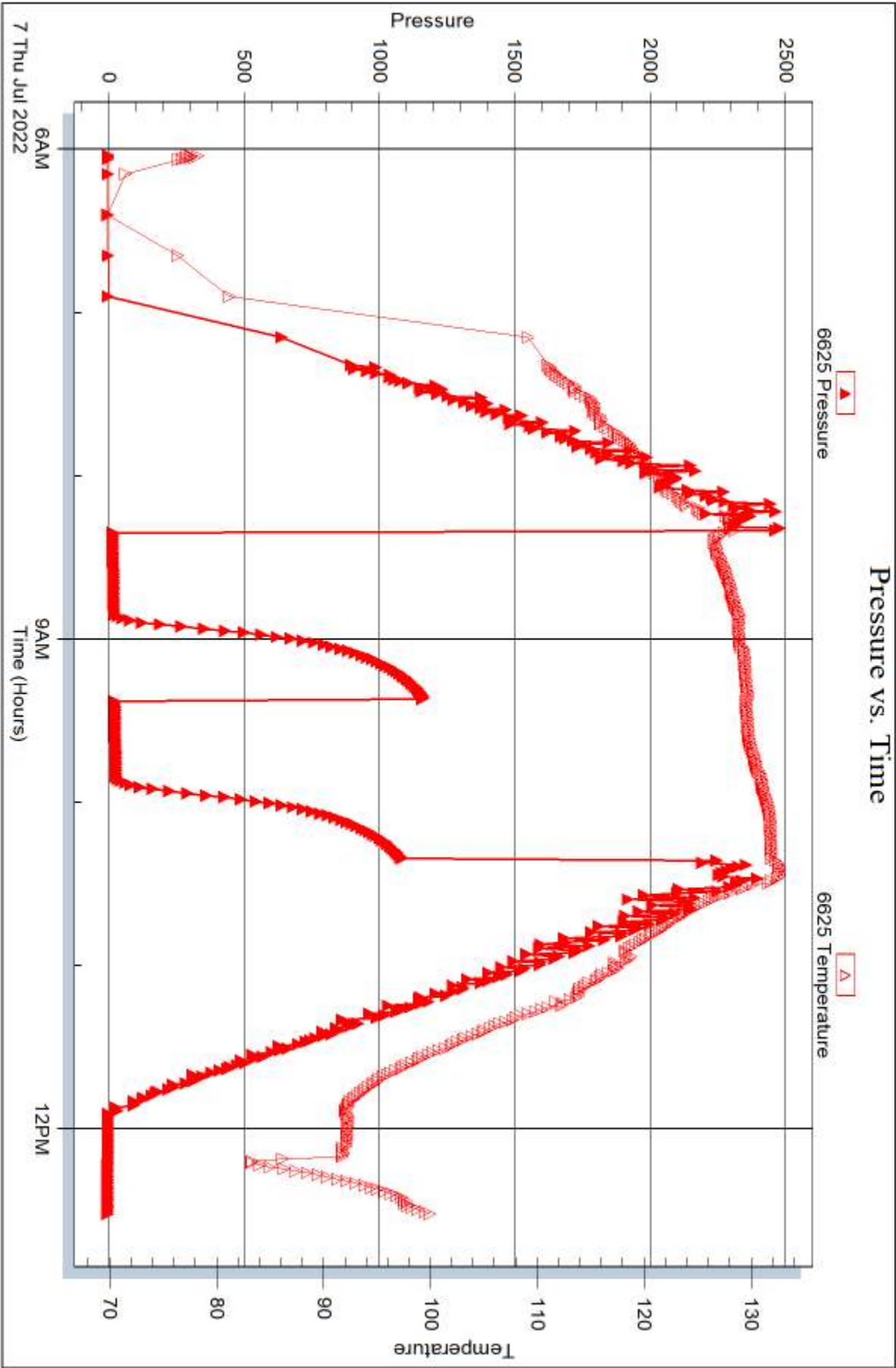
Serial #: 6625

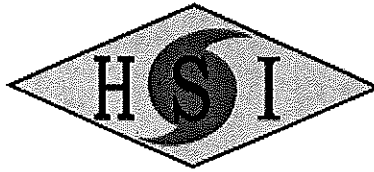
Inside

Val Energy Inc.

Boyngton #1-13

DST Test Number: 6





HURRICANE SERVICES INC

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

Customer:

VAL ENERGY, INC.
125 N MARKET
STE 1710
Wichita, KS 67202

Invoice Date: 7/7/2022
Invoice #: 0361732
Lease Name: Boyington
Well #: 1-13
County: Sherman, Ks
Job Number: WP3048
District: Oakley

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
H-Plug	255.000	13.440	3,427.20
Light Eq Mllege	45.000	2.000	90.00
Heavy Eq Mileage	90.000	4.000	360.00
Ton Mileage	510.000	1.500	765.00
Depth Charge 2001'-3000'	1.000	1,920.000	1,920.00
Cement Blending & Mixing	255.000	1.344	342.72
Service Supervisor	1.000	264.000	264.00
Wooden plug 8 5/8"	1.000	168.000	168.00

Net Invoice	7,336.92
Sales Tax:	497.27
Total	7,834.19

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 1/4% 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 effect the collection. Customer hereby agrees to pay all fees directly or indirectly incurred for such collection, in the event that Customer's account with HSI becomes delinquent. HSI has the right to revoke any discounts 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: 15-2021/01/25
mplv: 272-2022/06/30



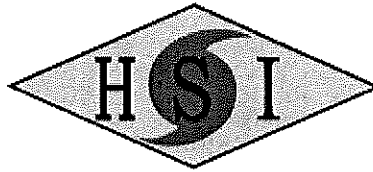
CEMENT TREATMENT REPORT

Customer:	Val Energy	Well:	Boyngton 1-13	Ticket:	WP 3048
City, State:		County:	Sherman, KS	Date:	7/7/2022
Field Rep:	Spencer Savage	S-T-R:	13-8S-37W	Service:	PTA

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-Plug	Blend:	
Hole Depth:	4800 ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size:	in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.42 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0406 bbls / ft.	Annular Bbls / Ft.:	bbls / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	bbls	Annular Volume:	bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	bbls	Total Slurry:	64.5 bbls	Total Slurry:	bbls
		Total Sacks:	255 sx	Total Sacks:	sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
500pm					Arrive on Location
515pm					Safety Meeting
530pm					Rlg up
					Set Pipe at 3000' to pump plug
541pm	5.0	50.0	5.0	5.0	Start H2O ahead
542pm	4.5	60.0	12.6	17.6	Begin Slurry H-Plug 13.8ppg 50sks
553pm	5.0	100.0	39.0	56.6	Start Displace with Mud
					Move up hole to 2000'
635pm	5.0	50.0	5.0	61.6	Start H2O ahead
639pm	5.0	200.0	25.2	86.8	Begin Slurry H-Plug 13.8ppg 100sks
644pm	4.0	100.0	21.9	108.7	Displace
					Move up hole to 400'
741pm	4.0	50.0	5.0	113.7	Start H2O ahead
744pm	4.3	60.0	12.6	126.3	Begin Slurry H-Plug 13.8ppg 50sks
750pm	2.0	50.0	2.4	128.7	Displace
					POOH Insert 8 5/8 wooden plug to 40'
843pm	2.0	50.0	2.5	131.2	Pump Slurry H-Plug 13.8ppg 10sks
847pm	2.0	50.0	3.8	135.0	Pump Slurry H-Plug 13.8ppg 15sks Down Mouse Hole
851pm	2.0	50.0	7.5	142.5	Pump Slurry H-Plug 13.8ppg 30sks Down Rat Hole
900pm					Wash Up
920pm					Rlg Down
940pm					Leave Location

CREW		UNIT	SUMMARY		
Cementer:	Spencer	242	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jimmie	528/520	3.7 bpm	73 psi	143 bbls
Bulk #1:	Hunter	914			
Bulk #2:					



HURRICANE SERVICES INC

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

Customer:

VAL ENERGY, INC.
125 N MARKET
STE 1710
Wichita, KS 67202

Invoice Date: 6/29/2022
Invoice #: 0361514
Lease Name: Boyngton
Well #: 1-13 (New)
County: Sherman, Ks
Job Number: WP3015
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Depth Charge 0'-500'	1.000	960.000	960.00
Heavy Eq Mileage	90.000	4.000	360.00
Light Eq Mileage	45.000	2.000	90.00
Ton Mileage	590.280	1.500	885.42
H-325	265.000	21.600	5,724.00
Cement Blending & Mixing	265.000	1.344	356.16
Service Supervisor	1.000	264.000	264.00

Total 8,639.58

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 1/4% 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. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts 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.

flv: 15-2021/01/25
mplv: 264-2022/05/23

