



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

B5 Operating LLC
 P.O. Box 45
 Wellington, KS 67152
 ATTN: Mitch Bartelson/Kevi

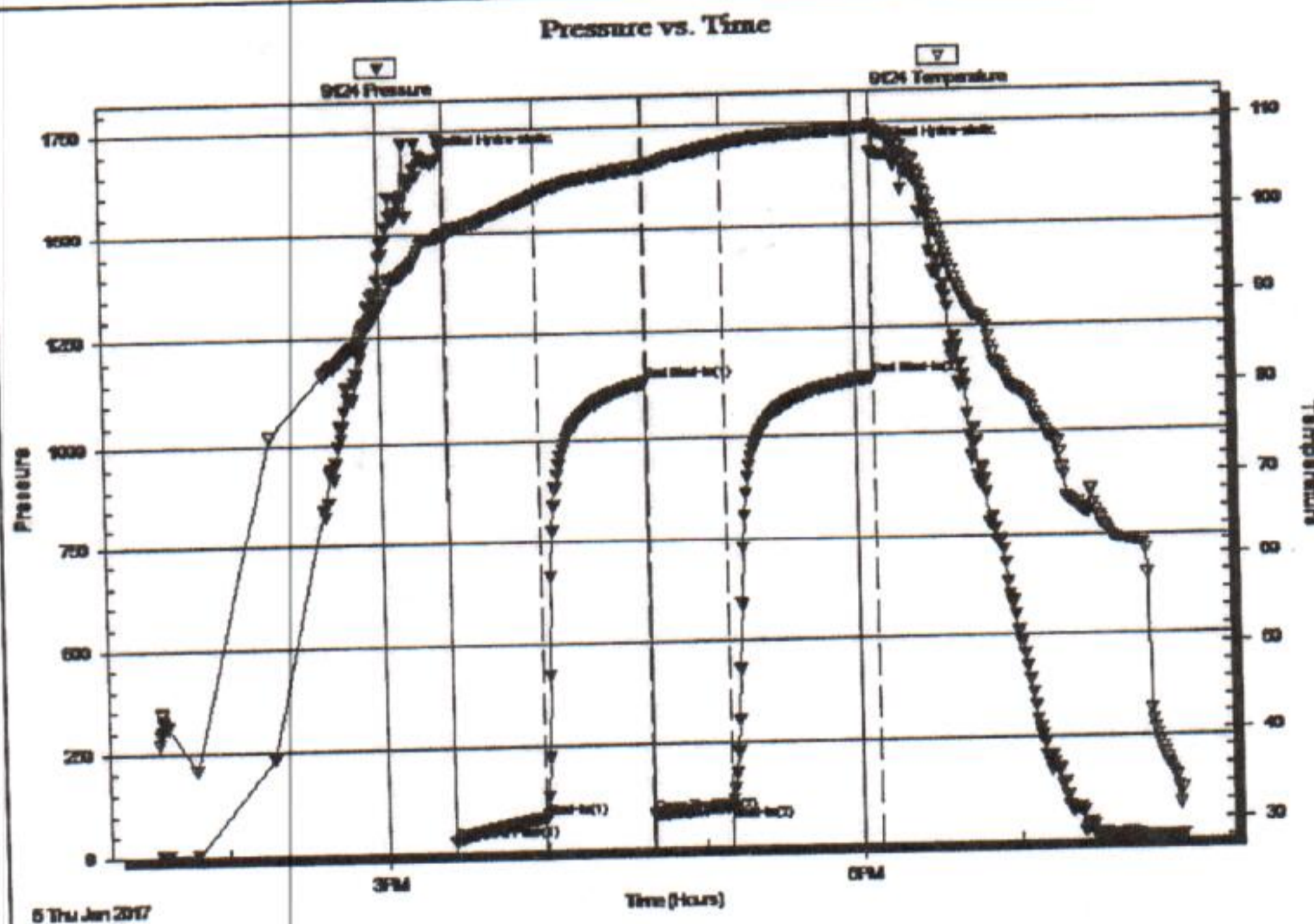
10-33S-3W Sumner,KS
Simons Brothers #3
 Job Ticket: 63093 **DST#: 1**
 Test Start: 2017.01.05 @ 13:34:00

GENERAL INFORMATION:

Formation: **LKC J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:25:30
 Time Test Ended: 20:00:45
 Interval: **3420.00 ft (KB) To 3450.00 ft (KB) (TVD)**
 Total Depth: 3450.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1174.00 ft (KB)
 1169.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 9124 **Outside**
 Press@RunDepth: 97.94 psig @ 3421.00 ft (KB)
 Start Date: 2017.01.05 End Date: 2017.01.05
 Start Time: 13:34:05 End Time: 20:00:44
 Capacity: 8000.00 psig
 Last Calib.: 2017.01.05
 Time On Btm: 2017.01.05 @ 15:20:30
 Time Off Btm: 2017.01.05 @ 18:09:15

TEST COMMENT: IF - Weak blow building to 5"
 FF - Weak blow building to 5"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.99	97.25	Initial Hydro-static
5	24.88	97.34	Open To Flow (1)
40	77.03	102.10	Shut-In(1)
80	1134.16	105.06	End Shut-In(1)
81	80.89	105.16	Open To Flow (2)
110	97.94	107.39	Shut-In(2)
166	1136.06	109.01	End Shut-In(2)
169	1672.91	108.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
175.00	VSOCMW 1%O 70%W 29%M	1.39

Gas Rates

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



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10-33S-3W Sumner,KS

Simons Brothers #3

Job Ticket: 63093

DST#: 1

Test Start: 2017.01.05 @ 13:34:00

GENERAL INFORMATION:

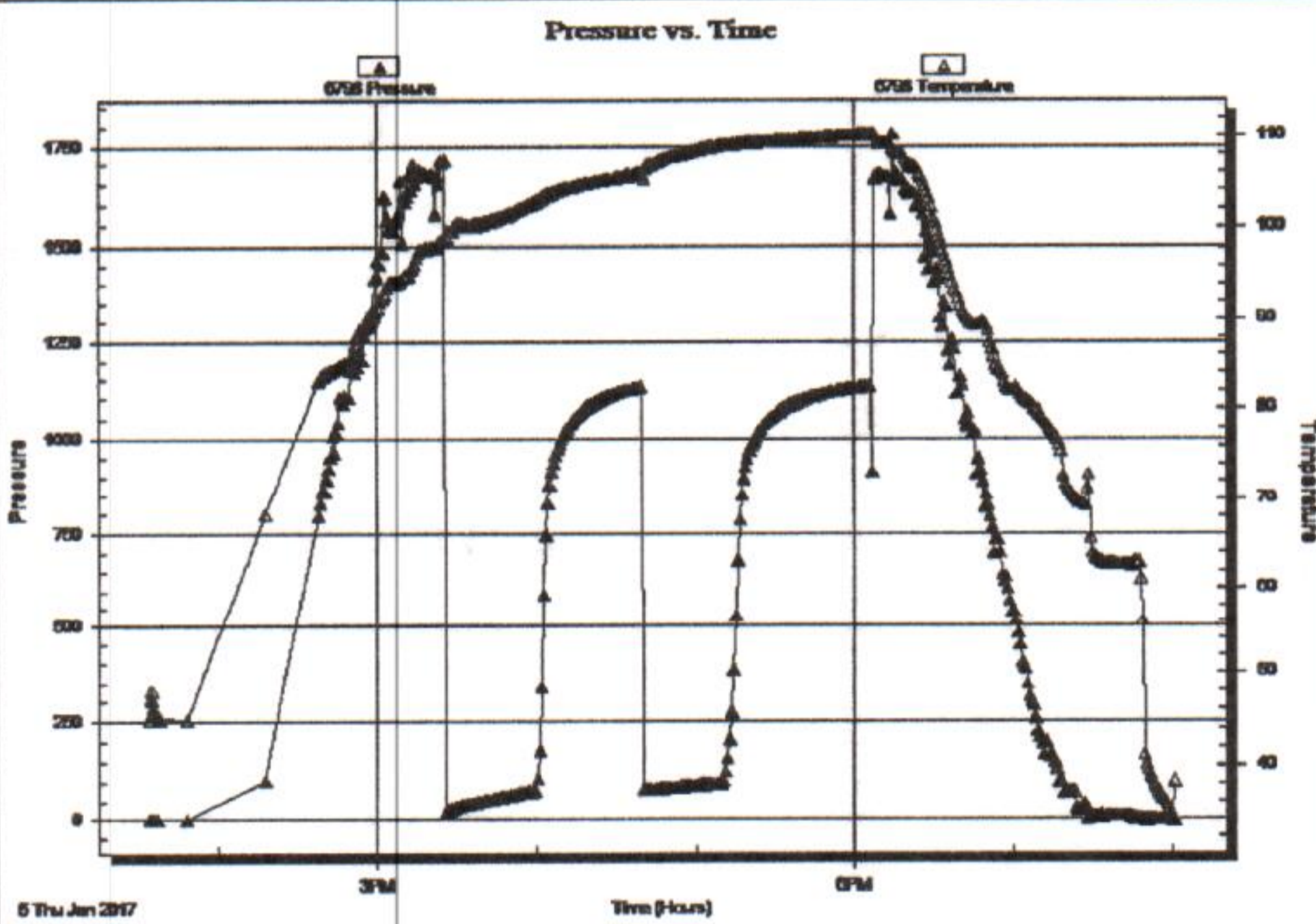
Formation: **LKC J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:25:30 Tester: Jimmy Ricketts
 Time Test Ended: 20:00:45 Unit No: 80
 Interval: **3420.00 ft (KB) To 3450.00 ft (KB) (TVD)**
 Reference Elevations: 1174.00 ft (KB)
 Total Depth: 3450.00 ft (KB) (TVD) 1169.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: psig @ 3421.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.05 End Date: 2017.01.05 Last Calib.: 1899.12.30
 Start Time: 13:34:05 End Time: 20:00:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF - Weak blow building to 5"
 FF - Weak blow building to 5"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
175.00	VSOCMW 1%O 70%W 29%M	1.39

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

B5 Operating LLC

10-33S-3W Sumner,KS

P.O. Box 45
Wellington, KS 67152

Simons Brothers #3

Job Ticket: 63093

DST#: 1

ATTN: Mitch Bartelson/Kevi

Test Start: 2017.01.05 @ 13:34:00

Tool Information

Drill Pipe:	Length: 3294.00 ft	Diameter: 3.80 inches	Volume: 46.21 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 46.79 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3420.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3393.00	
Shut In Tool	5.00			3398.00	
Hydraulic tool	5.00			3403.00	
Jars	5.00			3408.00	
Safety Joint	3.00			3411.00	
Packer	4.00			3415.00	28.00 Bottom Of Top Packer
Packer	5.00			3420.00	
Stubb	1.00			3421.00	
Recorder	0.00	9124	Outside	3421.00	
Recorder	0.00	6798	Inside	3421.00	
Perforations	24.00			3445.00	
Bullnose	5.00			3450.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



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FLUID SUMMARY

B5 Operating LLC

10-33S-3W Sumner, KS

P.O. Box 45
Wellington, KS 67152

Simons Brothers #3

Job Ticket: 63093 **DST#: 1**

ATTN: Mitch Bartelson/Kevi

Test Start: 2017.01.05 @ 13:34:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	84000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
175.00	VSOCMW 1%O 70%W 29%M	1.389

Total Length: 175.00 ft Total Volume: 1.389 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

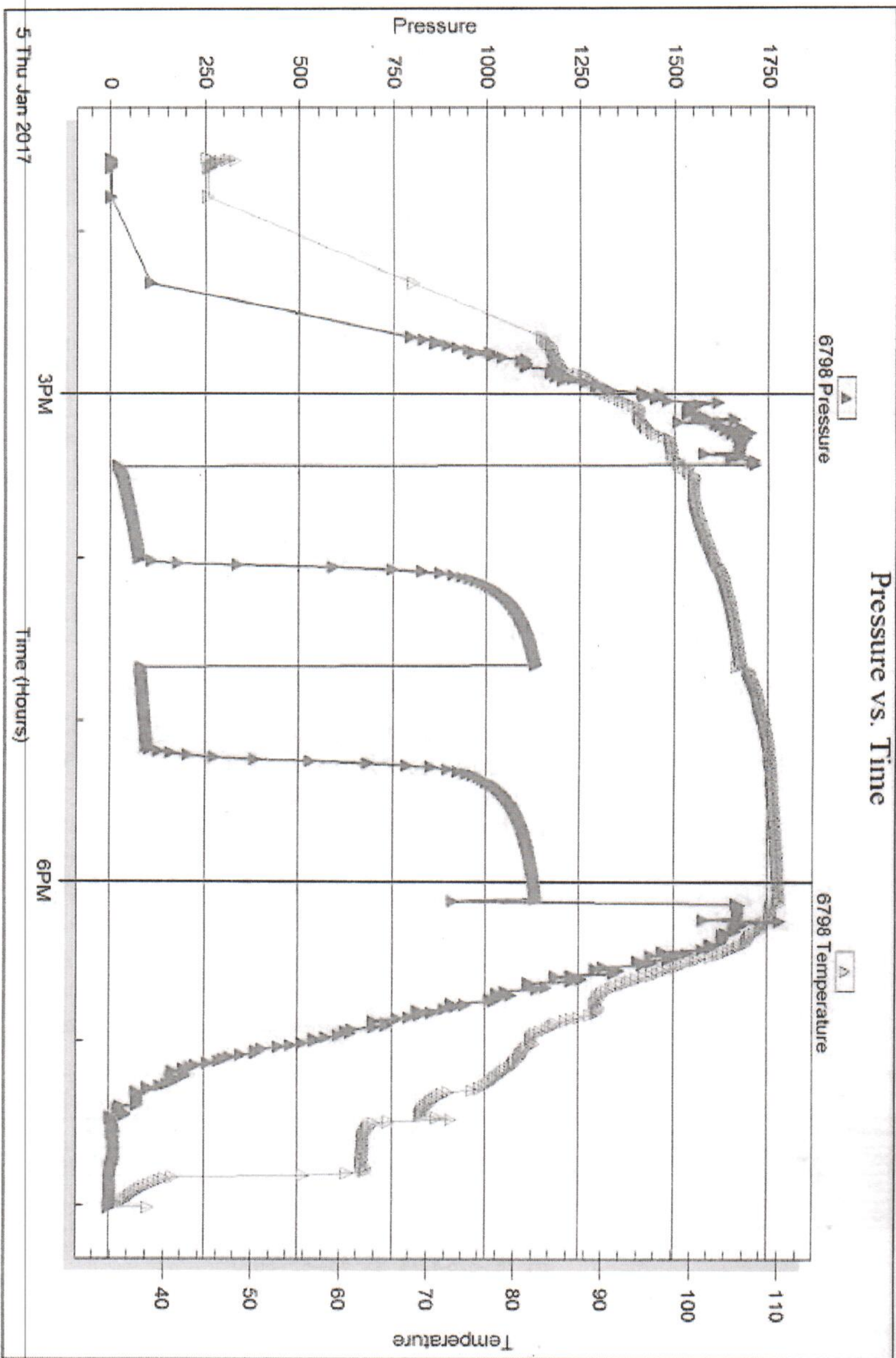
Serial #: 6798

Inside

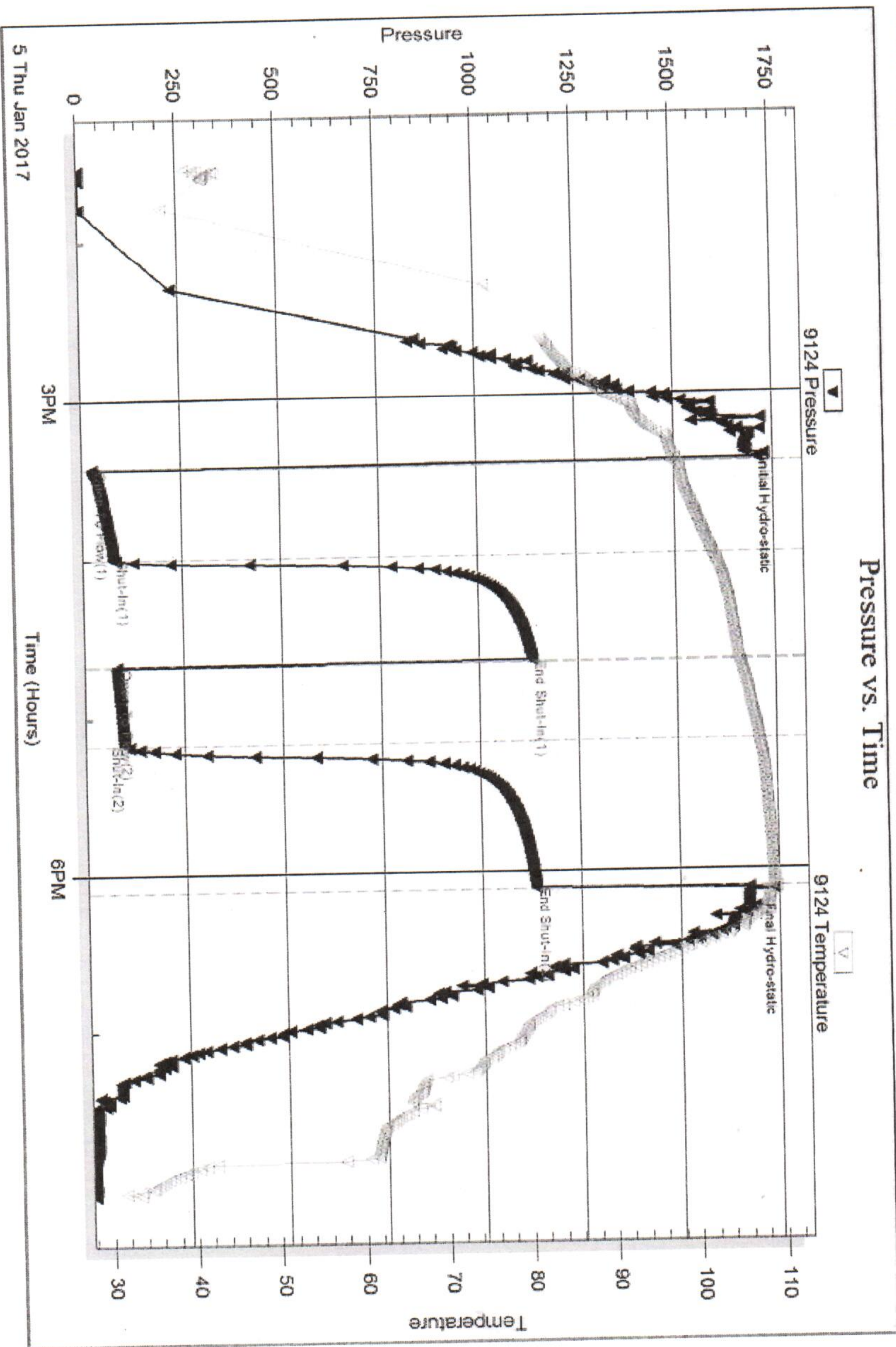
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DST Test Number: 1



Pressure vs. Time





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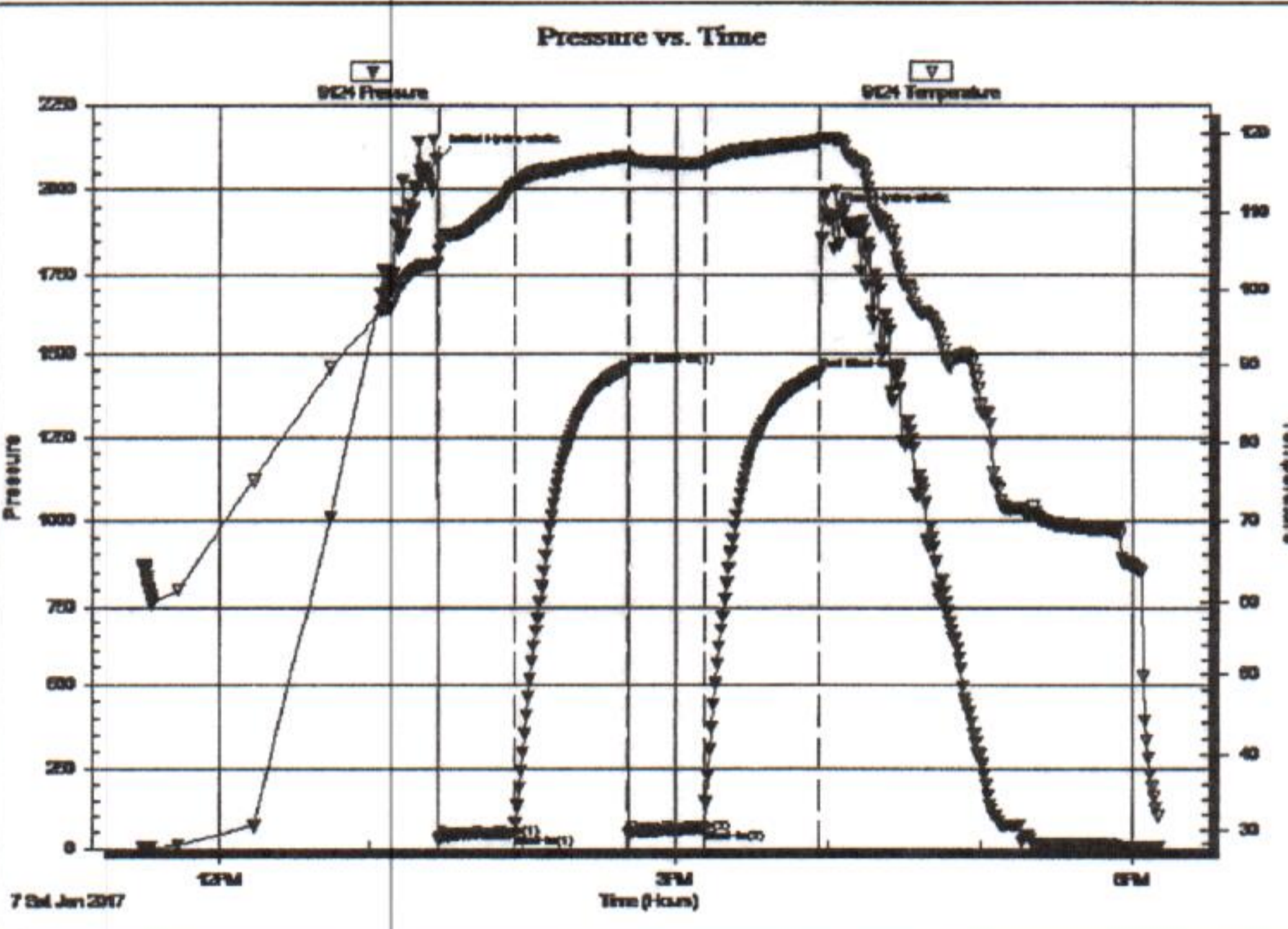
10-33S-3W Sumner, KS
Simons Brothers #3
 Job Ticket: 63094 **DST#: 2**
 Test Start: 2017.01.07 @ 11:30:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:26:45 Tester: Jimmy Ricketts
 Time Test Ended: 18:10:45 Unit No: 80
 Interval: **3997.00 ft (KB) To 4005.00 ft (KB) (TVD)**
 Reference Elevations: 1174.00 ft (KB)
 Total Depth: 4005.00 ft (KB) (TVD) 1169.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 9124 Outside
 Press@RunDepth: 63.82 psig @ 3998.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.07 End Date: 2017.01.07 Last Calib.: 1899.12.30
 Start Time: 11:30:05 End Time: 18:10:44 Time On Btm: 2017.01.07 @ 13:25:45
 Time Off Btm: 2017.01.07 @ 16:00:15

TEST COMMENT: IF - BOB in 1 minute.
 IS - 2" blow back
 FF - Strong blow throughout final flow period. GTS in 17 minutes
 FS - 2" blow back



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.21	103.54	Initial Hydro-static
1	32.23	105.21	Open To Flow (1)
31	45.77	113.53	Shut-In(1)
76	1460.25	117.10	End Shut-In(1)
76	46.70	116.83	Open To Flow (2)
106	63.82	116.18	Shut-In(2)
151	1443.09	119.00	End Shut-In(2)
155	1913.74	119.24	Final Hydro-static

Length (ft)	Description	Volume (bbl)
60.00	GOCM 16%G 12%O 72%M	0.30
0.00	GTS	0.00

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	13.00	10.26
Last Gas Rate	0.13	13.00	10.26
Max. Gas Rate	0.13	13.00	10.26



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TOOL DIAGRAM

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10-33S-3W Sumner,KS

P.O. Box 45
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Simons Brothers #3

Job Ticket: 63094

DST#: 2

ATTN: Mitch Bartelson/Kevi

Test Start: 2017.01.07 @ 11:30:00

Tool Information

Drill Pipe:	Length: 3866.00 ft	Diameter: 3.80 inches	Volume: 54.23 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 49000.00 lb
			<u>Total Volume: 54.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3997.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3970.00	
Shut In Tool	5.00			3975.00	
Hydraulic tool	5.00			3980.00	
Jars	5.00			3985.00	
Safety Joint	3.00			3988.00	
Packer	4.00			3992.00	28.00 Bottom Of Top Packer
Packer	5.00			3997.00	
Stubb	1.00			3998.00	
Recorder	0.00	9124	Outside	3998.00	
Recorder	0.00	6798	Inside	3998.00	
Perforations	5.00			4003.00	
Bullnose	2.00			4005.00	8.00 Bottom Packers & Anchor

Total Tool Length: 36.00



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Simons Brothers #3
Job Ticket: 63094 **DST#: 2**
Test Start: 2017.01.07 @ 11:30:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	9000 ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	10.38 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 16%G 12%O 72%M	0.295
0.00	GTS	0.000

Total Length: 60.00 ft Total Volume: 0.295 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: