



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Ass. Inc.**

1515 Wynkoop st. Suite 700
Denver CO, 80202

ATTN: Clayton Camozzi

Schmeidler et 1-15

15-12s-17w Ellis

Start Date: 2011.12.08 @ 22:15:00

End Date: 2011.12.09 @ 06:53:30

Job Ticket #: 46329 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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Printed: 2011.12.09 @ 10:28:21



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DRILL STEM TEST REPORT

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Schmeidler et 1-15

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Job Ticket: 46329

DST#: 2

Test Start: 2011.12.08 @ 22:15:00

GENERAL INFORMATION:

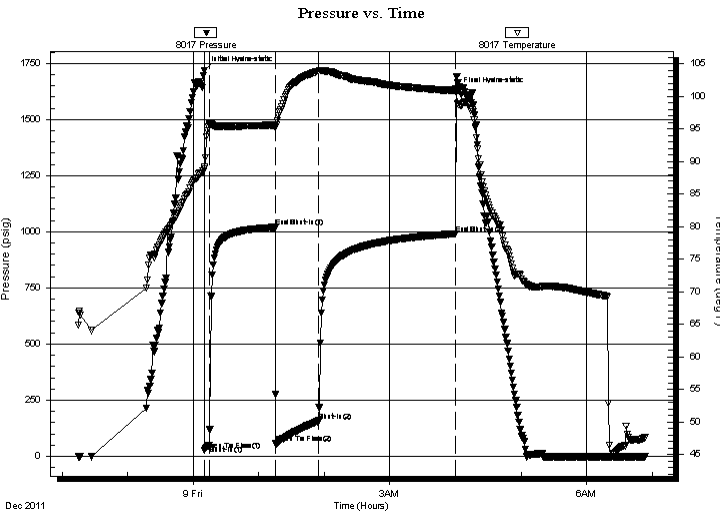
Formation: **"G"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 00:10:30
 Tester: Cody Bloedorn
 Time Test Ended: 06:53:30
 Unit No: 39
 Interval: **3434.00 ft (KB) To 3468.00 ft (KB) (TVD)**
 Reference Elevations: 2135.00 ft (KB)
 Total Depth: 3475.00 ft (KB) (TVD)
 2127.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8017

Inside

Press @ Run Depth: 157.82 psig @ 3435.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.12.08 End Date: 2011.12.09 Last Calib.: 2011.12.09
 Start Time: 22:15:05 End Time: 06:53:30 Time On Btm: 2011.12.09 @ 00:10:10
 Time Off Btm: 2011.12.09 @ 04:00:30

TEST COMMENT: 05 - IF- 8" blow
 60 - IS- No blow back
 40 - FF- B.O.B. in 8 Min.
 120 - FS- 1" blow in 27 Min. Died back to 1/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.19	89.14	Initial Hydro-static
1	26.75	88.85	Open To Flow (1)
5	48.71	95.70	Shut-In(1)
65	1019.84	95.63	End Shut-In(1)
66	59.76	95.35	Open To Flow (2)
105	157.82	103.87	Shut-In(2)
230	990.94	100.92	End Shut-In(2)
231	1621.83	101.18	Final Hydro-static

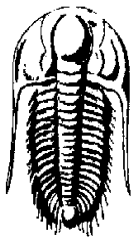
Recovery

Length (ft)	Description	Volume (bbl)
186.00	GVSOCMW, 5%G, 5%O, 20%M, 70%W	1.74
62.00	GVSOCWM, 5%G, 5%O, 20%W, 70%M	0.64
31.00	GO, 10%G, 90%O	0.32
0.00	186' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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



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 Time Test Ended: 06:53:30
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 Total Depth: 3475.00 ft (KB) (TVD) 2127.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

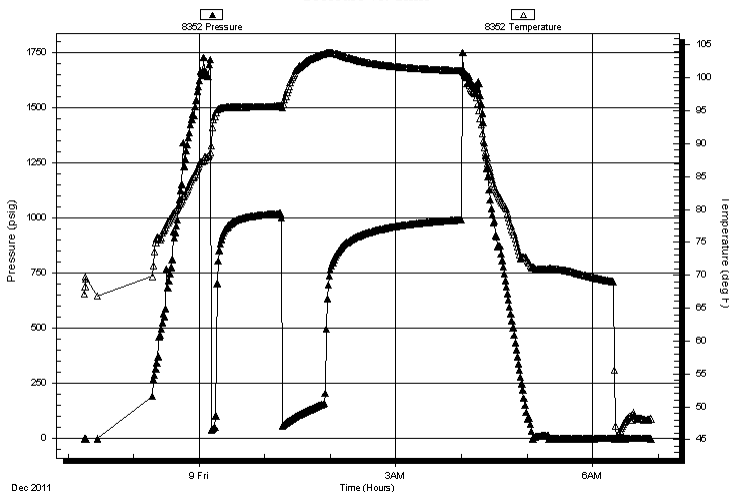
Serial #: 8352

Outside

Press @ RunDepth: psig @ 3435.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.12.08 End Date: 2011.12.09 Last Calib.: 2011.12.09
 Start Time: 22:15:05 End Time: 06:53:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 05 - IF- 8" blow
 60 - IS- No blow back
 40 - FF- B.O.B. in 8 Min.
 120 - FS- 1" blow in 27 Min. Died back to 1/4"

Pressure vs. Time



PRESSURE SUMMARY

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

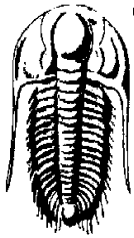
Recovery

Length (ft)	Description	Volume (bbl)
186.00	GV SOC MW, 5%G, 5%O, 20%M, 70%W	1.74
62.00	GV SOC MW, 5%G, 5%O, 20%W, 70%M	0.64
31.00	GO, 10%G, 90%O	0.32
0.00	186' of G.I.P.	0.00

Gas Rates

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

* Recovery from multiple tests



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ATTN: Clayton Camozzi

Job Ticket: 46329

DST#: 2

Test Start: 2011.12.08 @ 22:15:00

GENERAL INFORMATION:

Formation: **"G"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 00:10:30

Time Test Ended: 06:53:30

Interval: 3434.00 ft (KB) To 3468.00 ft (KB) (TVD)

Total Depth: **3475.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Test Type: **Conventional Straddle (Reset)**

Tester: **Cody Bloedorn**

Unit No: **39**

Reference Elevations: **2135.00 ft (KB)**

2127.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8647

Fluid

Press @ Run Depth: **psig @ 3396.00 ft (KB)**

Start Date: **2011.12.08** End Date: **2011.12.09**

Start Time: **22:15:05** End Time: **06:51:30**

Capacity: **8000.00 psig**

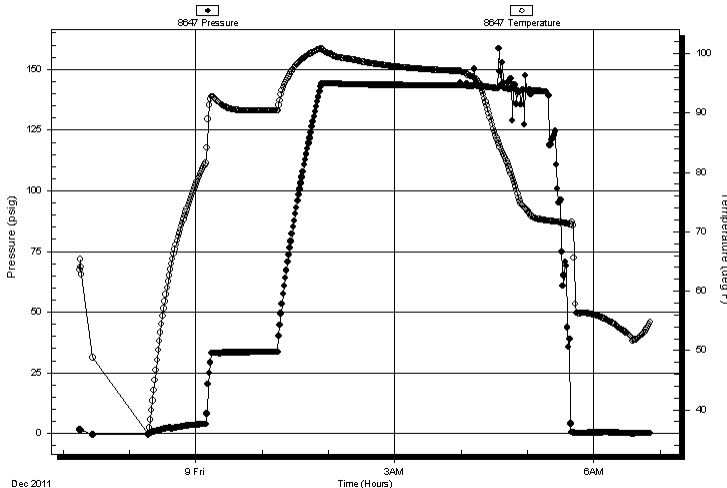
Last Calib.: **2011.12.09**

Time On Btm:

Time Off Btm:

TEST COMMENT: 05 - IF- 8" blow
60 - IS- No blow back
40 - FF- B.O.B. in 8 Min.
120 - FS- 1" blow in 27 Min. Died back to 1/4"

Pressure vs. Time



PRESSURE SUMMARY

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

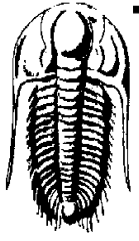
Recovery

Length (ft)	Description	Volume (bbl)
186.00	GV SOC MW, 5%G, 5%O, 20%M, 70%W	1.74
62.00	GV SOC WM, 5%G, 5%O, 20%W, 70%M	0.64
31.00	GO, 10%G, 90%O	0.32
0.00	186' of G.I.P.	0.00

Gas Rates

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

* Recovery from multiple tests



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DST#: 2

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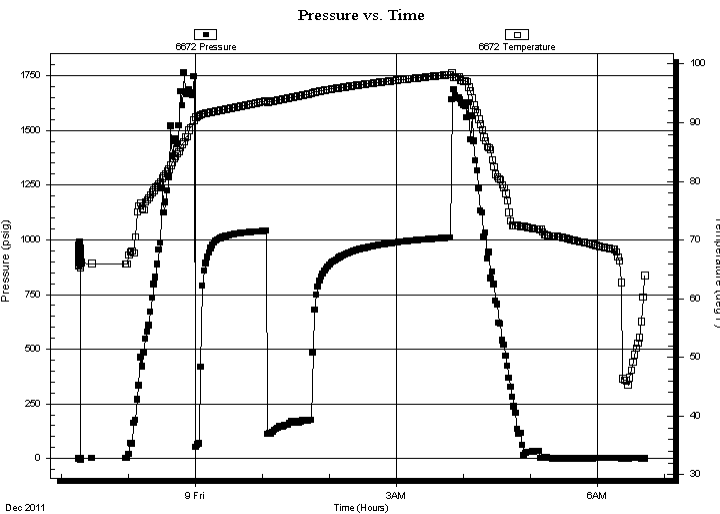
GENERAL INFORMATION:

Formation: "G"			Test Type: Conventional Straddle (Reset)
Deviated: No Whipstock:		ft (KB)	Tester: Cody Bloedorn
Time Tool Opened: 00:10:30			Unit No: 39
Time Test Ended: 06:53:30			
Interval: 3434.00 ft (KB) To 3468.00 ft (KB) (TVD)			Reference Elevations: 2135.00 ft (KB)
Total Depth: 3475.00 ft (KB) (TVD)			2127.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair		KB to GR/CF: 8.00 ft

Serial #: 6672 Below (Straddle)

Press @ Run Depth:	psig @ 3465.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2011.12.08	End Date:	2011.12.09
Start Time:	22:15:01	End Time:	06:42:30
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 05 - IF- 8" blow
60 - IS- No blow back
40 - FF- B.O.B. in 8 Min.
120 - FS- 1" blow in 27 Min. Died back to 1/4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	GV SOC MW, 5%G, 5%O, 20%M, 70%W	1.74
62.00	GV SOC WM, 5%G, 5%O, 20%W, 70%M	0.64
31.00	GO, 10%G, 90%O	0.32
0.00	186' of G.I.P.	0.00

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Ass. Inc.

15-12s-17w Ellis

1515 Wynkoop st. Suite 700
Denver CO, 80202

Schmeidler et 1-15

Job Ticket: 46329

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.12.08 @ 22:15:00

Tool Information

Drill Pipe:	Length: 3384.00 ft	Diameter: 3.25 inches	Volume: 34.72 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 34.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3434.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3468.00 ft			
Interval between Packers:	34.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

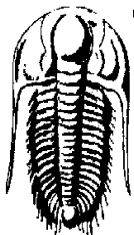
Tool Comments: Straddle Packer did NOT hold.

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8647	Fluid	3396.00	
Change Over Sub	7.00			3403.00	
Shut In Tool	5.00			3408.00	
Sampler	3.00			3411.00	
Hydraulic tool	5.00			3416.00	
Jars	5.00			3421.00	
Safety Joint	3.00			3424.00	
Packer	5.00			3429.00	38.00 Bottom Of Top Packer
Packer	5.00			3434.00	
Stubb	1.00			3435.00	
Recorder	0.00	8017	Inside	3435.00	
Recorder	0.00	8352	Outside	3435.00	
Perforations	20.00			3455.00	
Blank Off Sub	1.00			3456.00	
Packer - Shale	5.00			3461.00	
Perforations	4.00			3465.00	
Recorder	0.00	6672	Below	3465.00	
Bullnose	3.00			3468.00	34.00 Bottom Packers & Anchor

Total Tool Length: 72.00



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FLUID SUMMARY

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Schmeidler et 1-15

Job Ticket: 46329

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2011.12.08 @ 22:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

55000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	GVSOCMMW, 5%G, 5%O, 20%M, 70%W	1.743
62.00	GVSOCWM, 5%G, 5%O, 20%W, 70%M	0.636
31.00	GO, 10%G, 90%O	0.318
0.00	186' of G.I.P.	0.000

Total Length: 279.00 ft Total Volume: 2.697 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

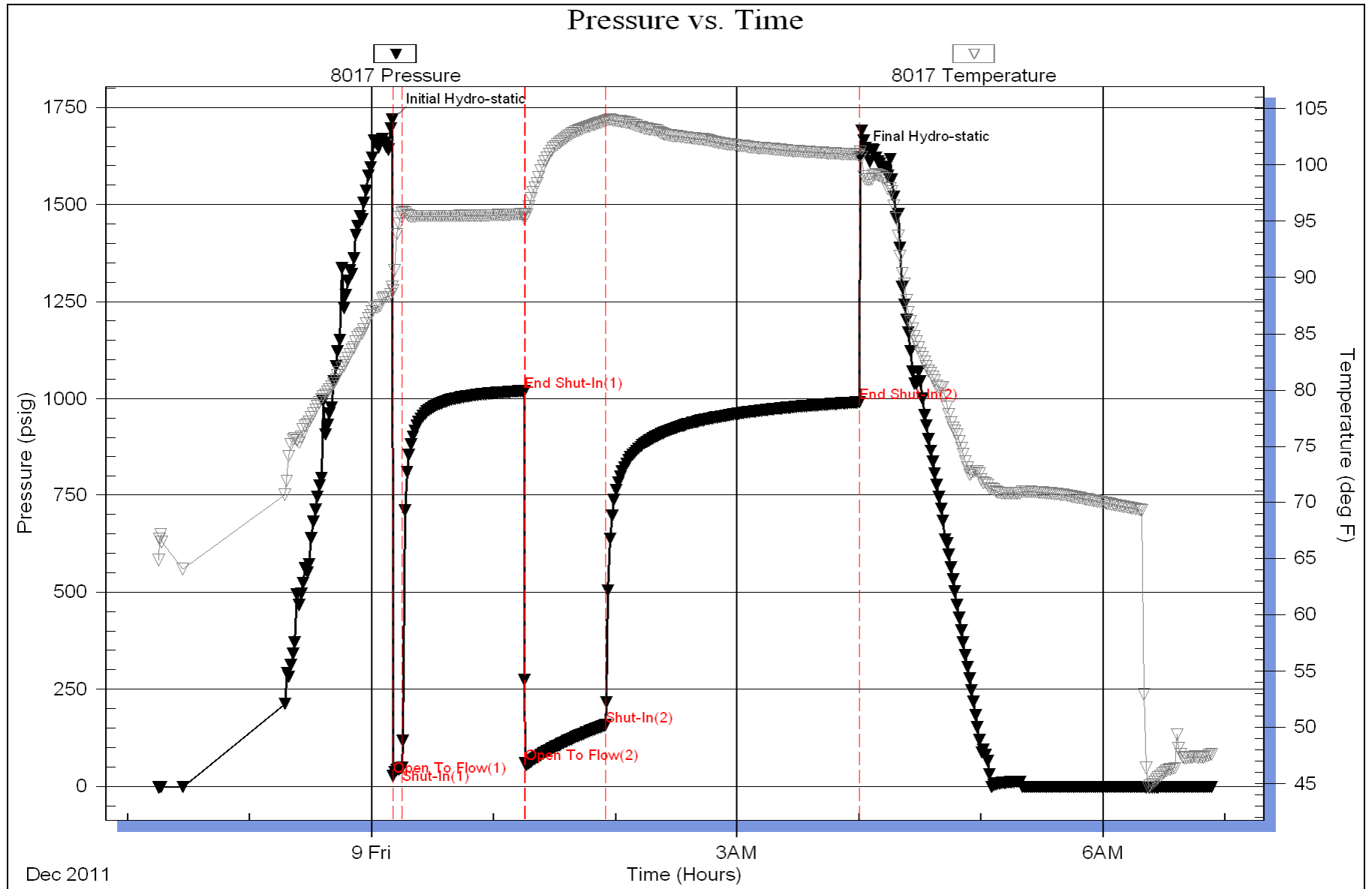
Serial #:

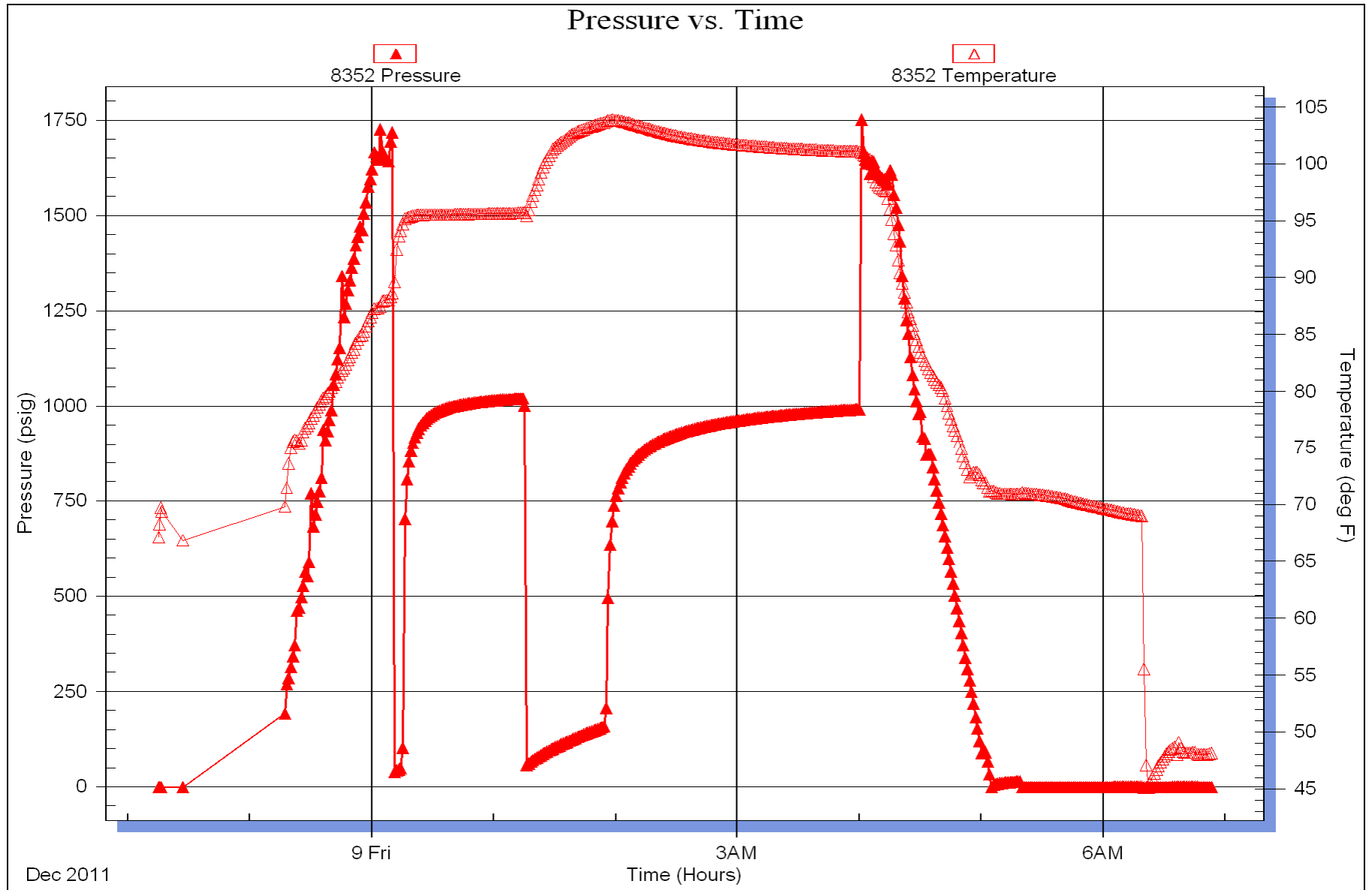
Laboratory Name:

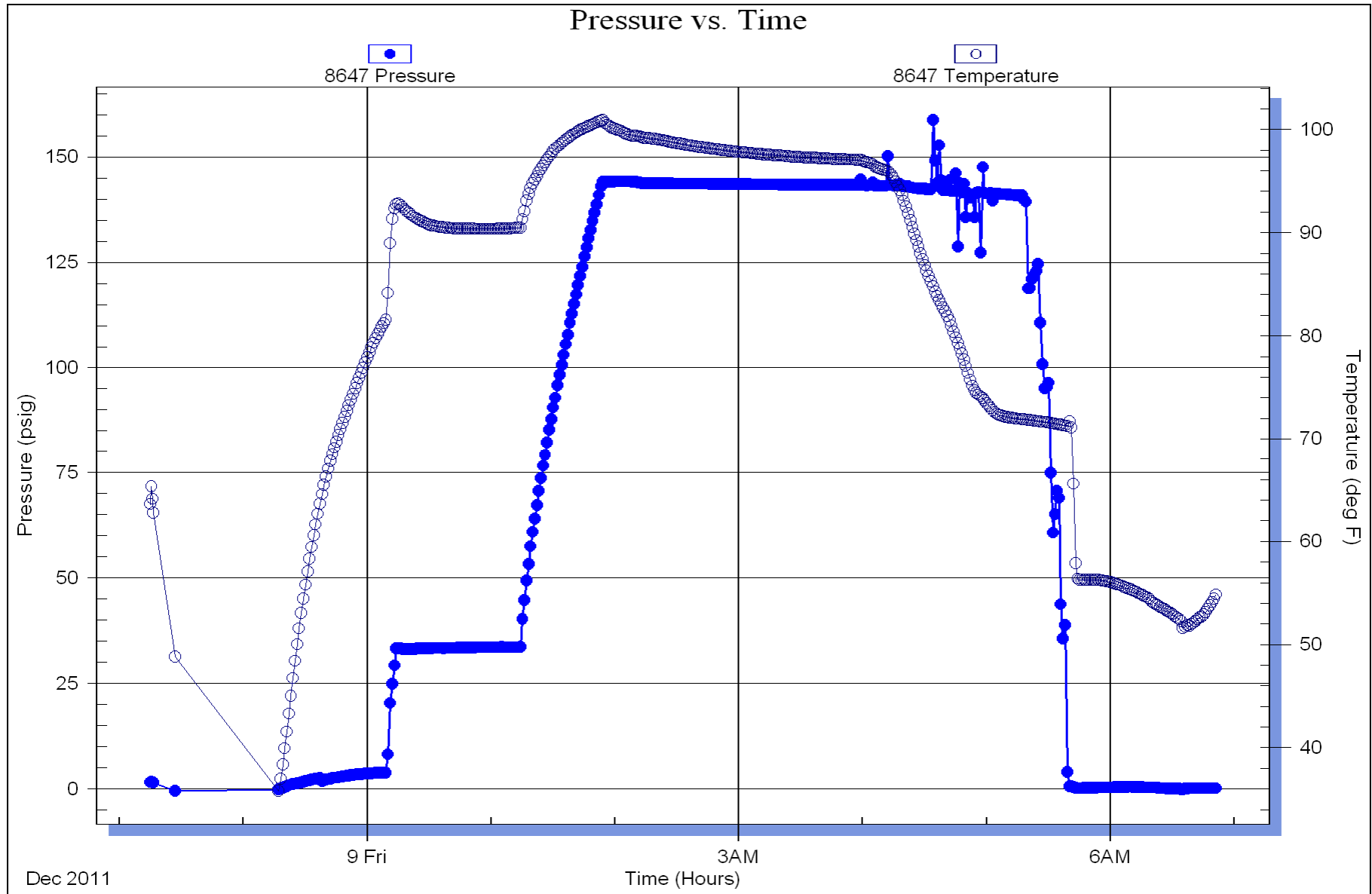
Laboratory Location:

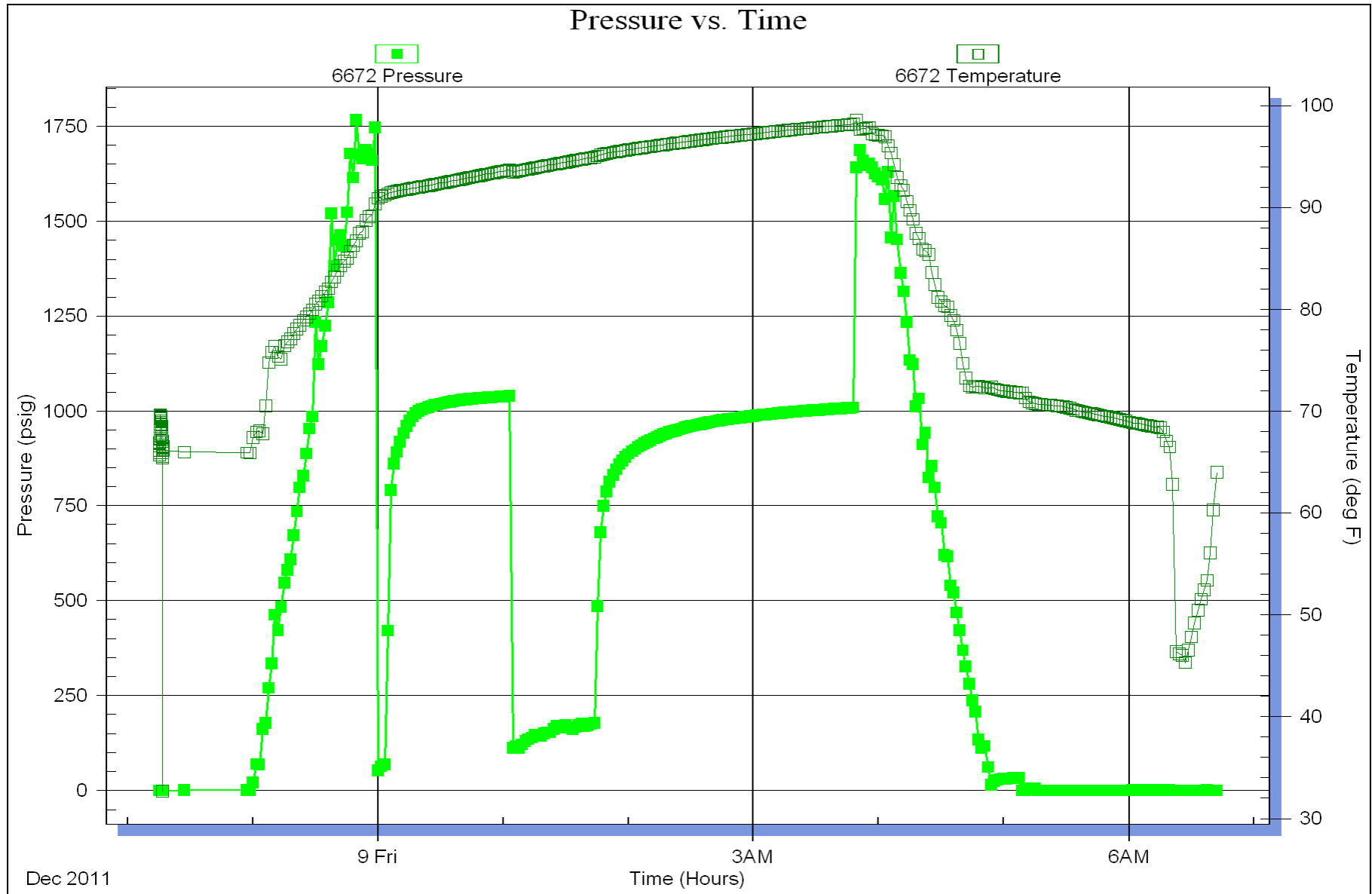
Recovery Comments: Gravity 36

Salinity: .33 @ 29 Degrees = 55000









Horner Plot

