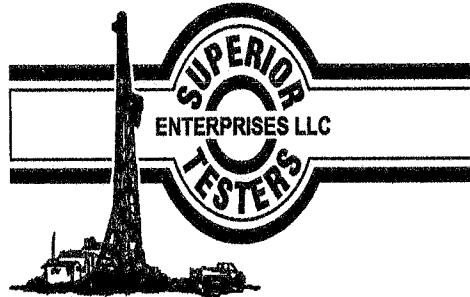


15-165-21831

15-16s-16w

IND



DRILL STEM TEST REPORT

Prepared For: **SAMUEL GARY JR & ASSOCIATES INC**

1560 BROADWAY SUITE 2100
DENVER CO 80202

ATTN: TIM HENDRICS

15-16S-16W RUSH

SCHEUERMANN # 1-15

Start Date: 2008.08.20 @ 16:30:00

End Date: 2008.08.21 @ 01:47:30

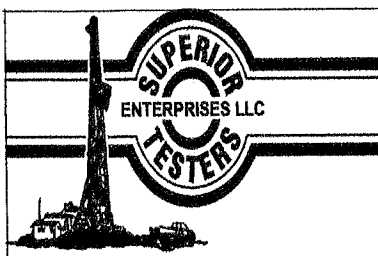
Job Ticket #: 15360 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

DEC 10 2008

CONSERVATION DIVISION
WICHITA, KS

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902



DRILL STEM TEST REPORT

SAMUEL GARY JR & ASSOCIATES INC

SCHEUERMAN # 1-15

1560 BROADWAY SUITE 2100
DENVER CO 80202

15-16S-16W RUSH

Job Ticket: 15360

DST#: 1

ATTN: TIM HENDRICS

Test Start: 2008.08.20 @ 16:30:00

GENERAL INFORMATION:

Formation: **LANSING B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:47:30

Time Test Ended: 01:47:30

Test Type: Conventional Bottom Hole

Tester: JARED SCHECK

Unit No: 3320 - 75 - GB

Interval: **3174.00 ft (KB) To 3234.00 ft (KB) (TVD)**

Total Depth: 3234.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1903.00 ft (KB)

1896.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8405

Press@RunDepth: 333.10 psia @ ft (KB)

Start Date: 2008.08.20

End Date:

2008.08.21

Capacity: 5000.00 psia

Last Calib.: 2008.08.20

Start Time: 16:32:00

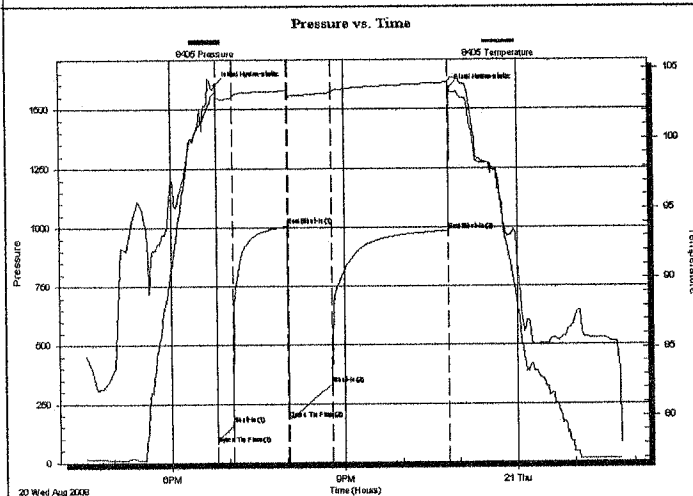
End Time:

01:47:30

Time On Btm: 2008.08.20 @ 18:47:00

Time Off Btm: 2008.08.20 @ 22:49:30

TEST COMMENT: 15/ INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
60/ INITIAL SHUT IN:6 INCHS INTO BUCKET IN 60 MINUTES
45/ FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 4 MINUTES
120/ FINAL SHUT



PRESSURE SUMMARY

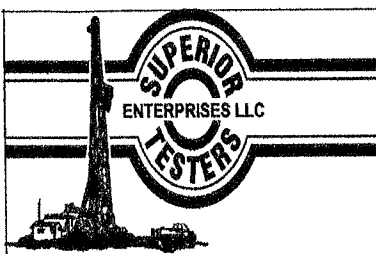
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1598.68	103.37	Initial Hydro-static
1	81.64	102.84	Open To Flow (1)
17	163.15	102.89	Shut-In (1)
74	1007.32	103.40	End Shut-In (1)
75	182.40	102.82	Open To Flow (2)
120	333.20	103.25	Shut-In (2)
242	983.92	103.93	End Shut-In (2)
243	1584.31	104.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	O&WCMG 15%O 20&W 25%M 40%G	0.84
60.00	GMCO 10%G 40%M 50%O	0.84
120.00	GMCHO 10%G 20%M 70%O	1.68
120.00	GMCHO 10%G 10%M 80%O	1.68
360.00	GO 10%G90%O	5.05
1260.00	GAS IN PIPE	17.67

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

SAMUEL GARY JR & ASSOCIATES INC

SCHEUERMAN # 1-15

1560 BROADWAY SUITE 2100
DENVER CO 80202

15-16S-16W RUSH

Job Ticket: 15360

DST#: 1

ATTN: TIM HENDRICS

Test Start: 2008.08.20 @ 16:30:00

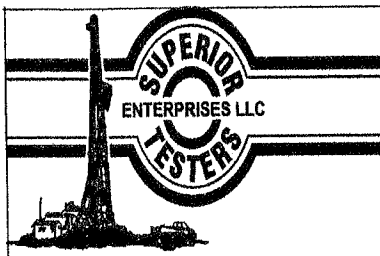
Tool Information

Drill Pipe:	Length: 3041.00 ft	Diameter: 3.80 inches	Volume: 42.66 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume:	- bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3174.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.37 ft			
Tool Length:	209.37 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating Sub	1.00			3025.00	
Drill Pipe or Drill Collars	120.00			3145.00	
Change Over Sub	1.00			3146.00	
Shut-In Tool	5.00			3151.00	
Hydraulic Tool	5.00			3156.00	
Jars	6.00			3162.00	
Safety Joint	2.00			3164.00	
Packer	5.00			3169.00	150.00 Bottom Of Top Packer
Packer	5.00			3174.00	
Anchor	21.00			3195.00	
Change Over Sub	0.75			3195.75	
Drill Pipe	31.87			3227.62	
Change Over Sub	0.75			3228.37	
Bull Plug	5.00			3233.37	59.37 Bottom Packers & Anchor

Total Tool Length: 209.37



DRILL STEM TEST REPORT

FLUID SUMMARY

SAMUEL GARY JR & ASSOCIATES INC

SCHEUERMAN # 1-15

1560 BROADWAY SUITE 2100
DENVER CO 80202

15-16S-16W RUSH

Job Ticket: 15360

DST#: 1

ATTN: TIM HENDRICS

Test Start: 2008.08.20 @ 16:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.98 in³

Resistivity: 0.15 ohm.m

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psia

Oil API:

Water Salinity:

41 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	O&WCMG 15%O 20&W 25%M 40%G	0.842
60.00	GMCO 10%G 40%M 50%O	0.842
120.00	GMCHO 10%G 20%M 70%O	1.683
120.00	GMCHO 10%G 10%M 80%O	1.683
360.00	GO 10%G90%O	5.050
1260.00	GAS IN PIPE	17.674

Total Length: 1980.00 ft Total Volume: 27.774 bbl

Num Fluid Samples: 0

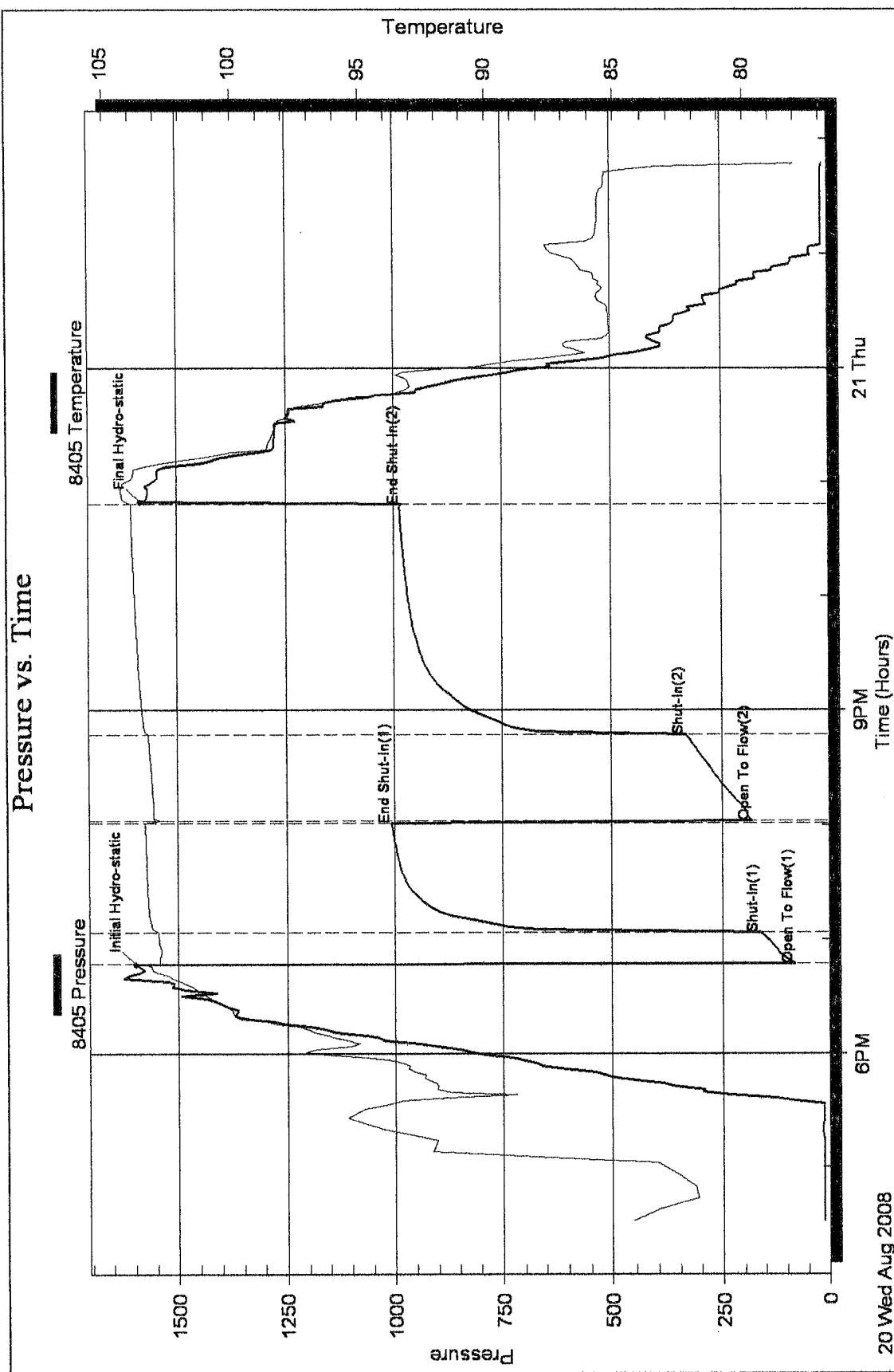
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: CHLORIDES 40,000



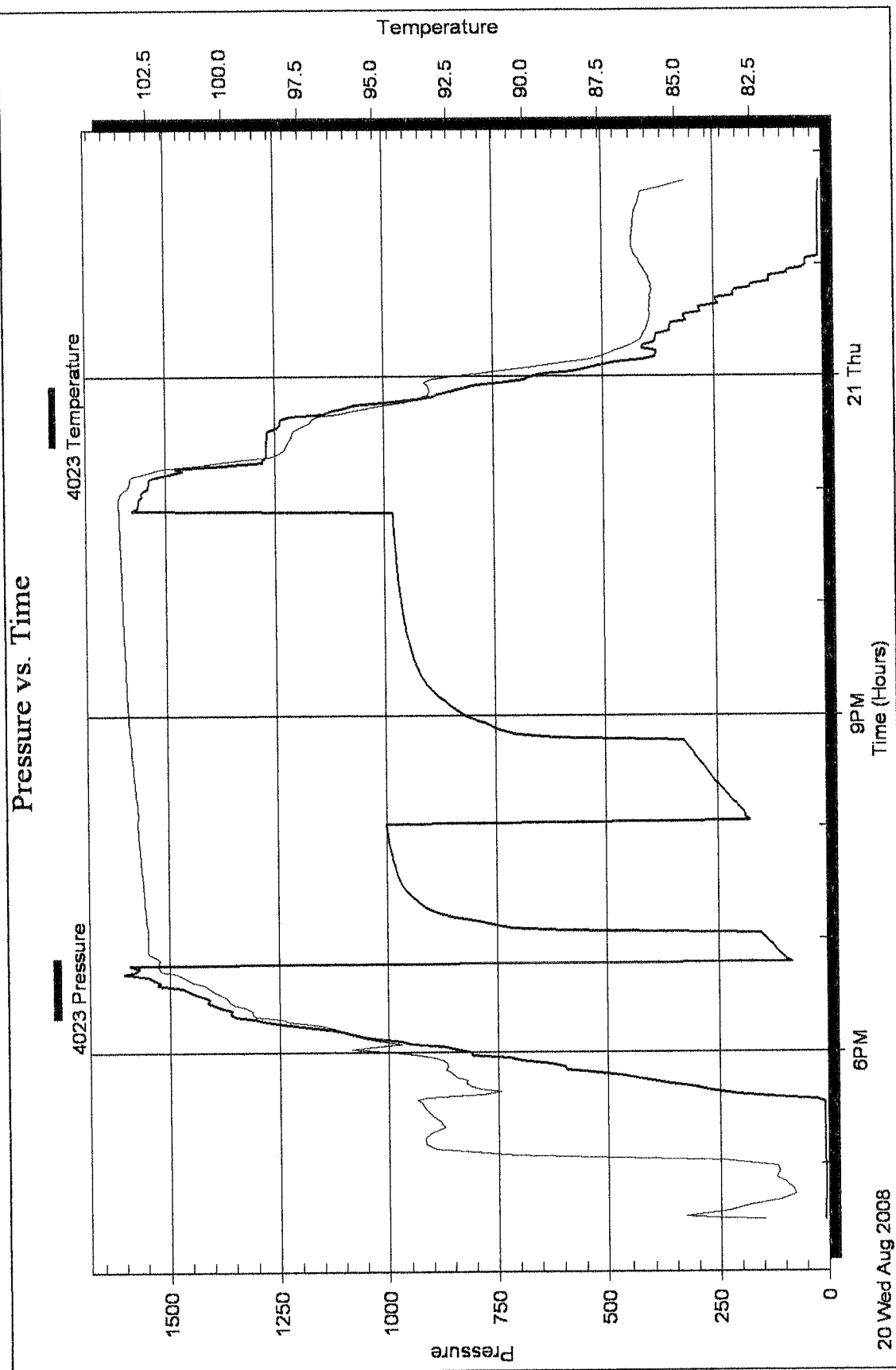
DST Test Number: 1

15-16S-16W RUSH

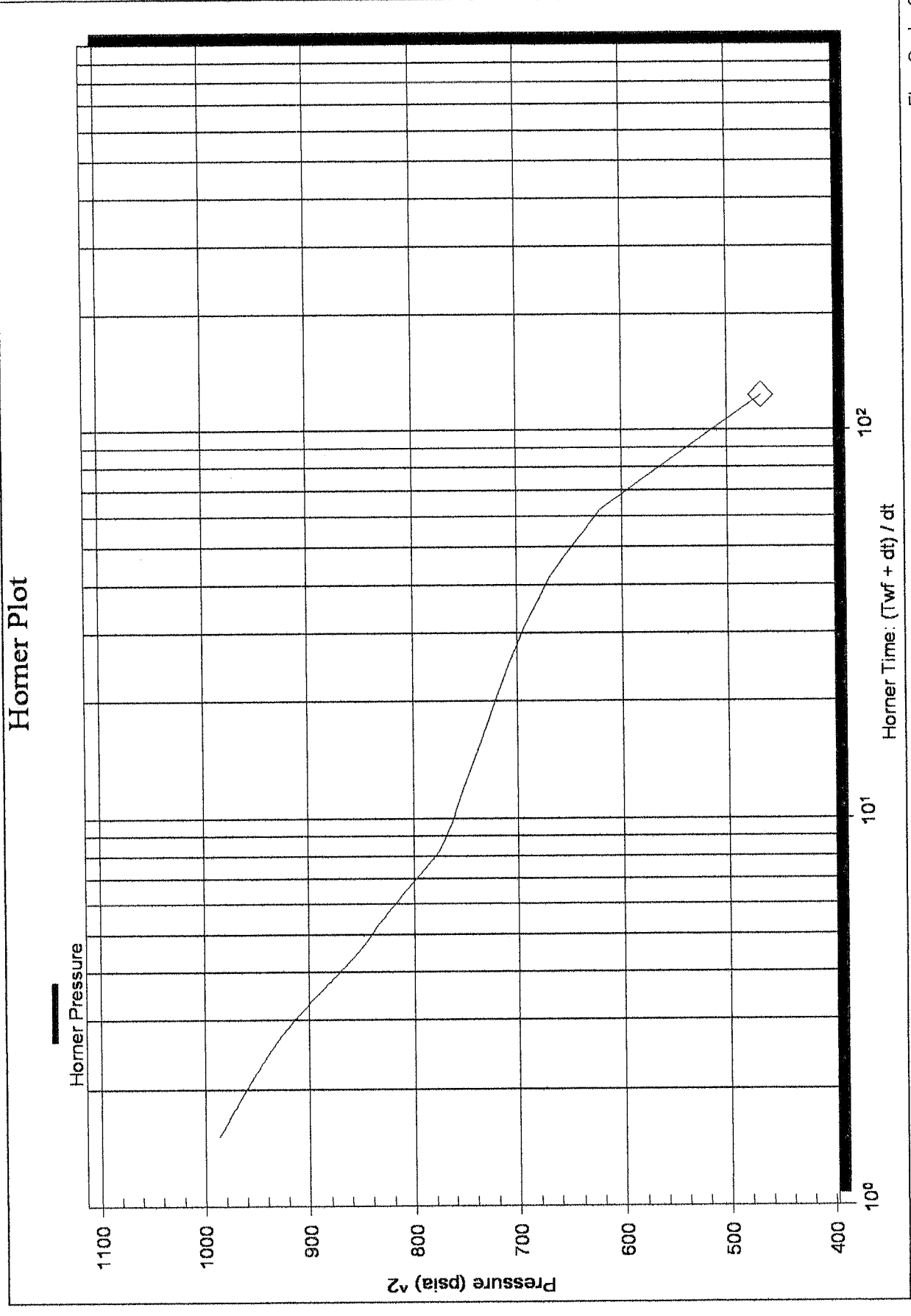
SAMUEL GARY JR & ASSOCIATES INC

Serial #: 4023

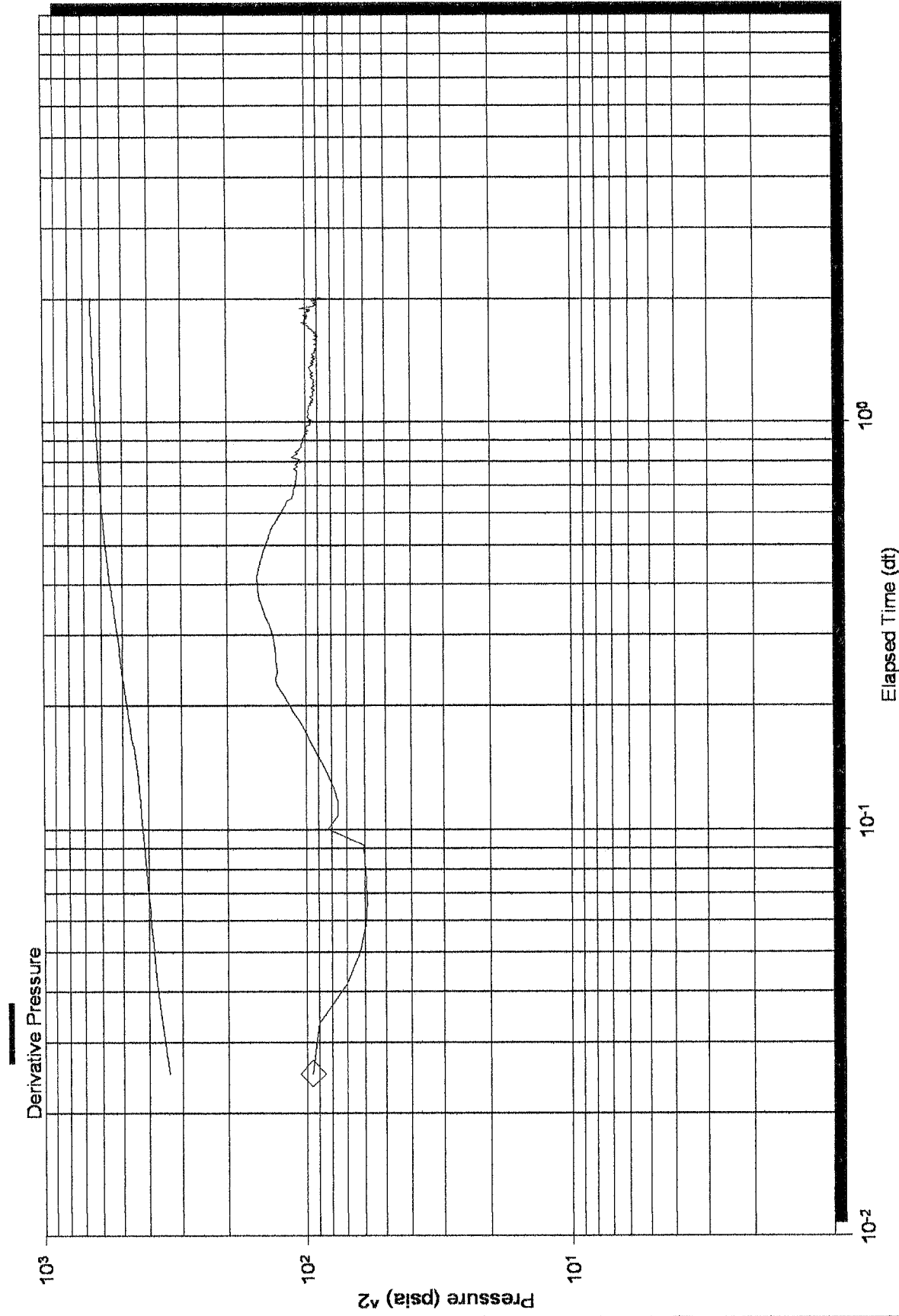
Pressure vs. Time

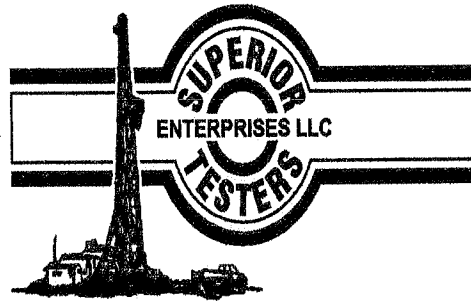


Horner Plot



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **SAMUEL GARY JR & ASSOCIATES INC**

1560 BROADWAY SUITE 2100
DENVER CO 80202

ATTN: TIM HENDRICS

15-16S-16W RUSH

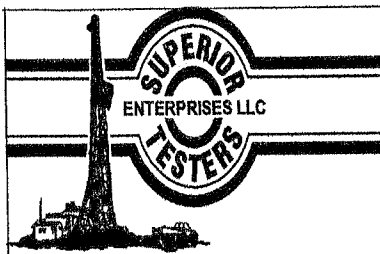
SCHEUERMAN # 1-15

Start Date: 2008.08.21 @ 13:30:00

End Date: 2008.08.21 @ 21:15:30

Job Ticket #: 15361 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902



DRILL STEM TEST REPORT

SAMUEL GARY JR & ASSOCIATES INC

1560 BROADWAY SUITE 2100
DENVER CO 80202

ATTN: TIM HENDRICS

SCHEUERMAN # 1-15

15-16S-16W RUSH

Job Ticket: 15361

DST#: 2

Test Start: 2008.08.21 @ 13:30:00

GENERAL INFORMATION:

Formation: **LANSING G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:01:00

Time Test Ended: 21:15:30

Test Type: Conventional Bottom Hole

Tester: JARED SCHECK

Unit No: 3320 -75 - GB

Interval: **3274.00 ft (KB) To 3288.00 ft (KB) (TVD)**

Total Depth: 3288.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1903.00 ft (KB)

1896.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8405

Press@RunDepth: 376.79 psia @ ft (KB)

Start Date: 2008.08.21

End Date:

2008.08.21

Start Time: 13:32:00

End Time:

21:15:30

Capacity: 5000.00 psia

Last Calib.: 2008.08.21

Time On Btm: 2008.08.21 @ 15:00:30

Time Off Btm: 2008.08.21 @ 18:46:30

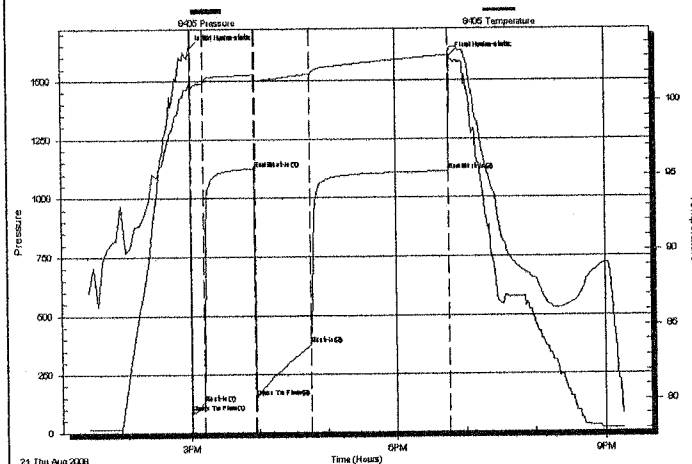
TEST COMMENT: 10 / INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES

45 / INITIAL SHUT IN :BUILT 6 INCHES INTO BUCKET IN 45 MINUTES

50 / FINAL OPEN:STRONG BLOW BOTTOM OF BUCKET IN 2 MINUTES

120/ FINAL

Pressure vs. Time



PRESSURE SUMMARY

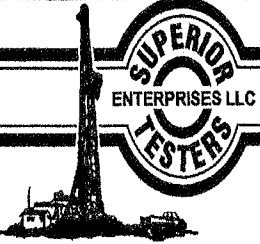
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1640.13	101.30	Initial Hydro-static
1	88.16	100.54	Open To Flow (1)
12	129.17	101.23	Shut-In(1)
57	1123.08	101.84	End Shut-In(1)
57	152.86	101.48	Open To Flow (2)
105	376.89	101.90	Shut-In(2)
226	1109.77	103.11	End Shut-In(2)
226	1603.71	103.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCMW 10%G 10%O 20%M 60%W	0.84
60.00	GOCMW 10%G 10%O 20%M 60%W	0.84
660.00	GO 15%G 85%O	9.26
2200.00	GAS IN PIPE	30.86

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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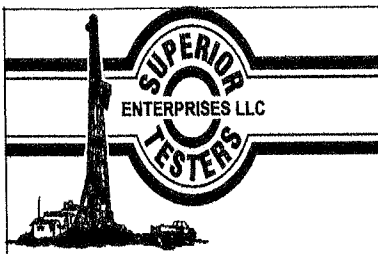
	DRILL STEM TEST REPORT		TOOL DIAGRAM
	SAMUEL GARY JR & ASSOCIATES INC 1560 BROADWAY SUITE 2100 DENVER CO 80202 ATTN: TIM HENDRICS		SCHEUERMAN # 1-15 15-16S-16W RUSH Job Ticket: 15361 DST#: 2 Test Start: 2008.08.21 @ 13:30:00

Tool Information

Drill Pipe:	Length: 3136.00 ft	Diameter: 3.80 inches	Volume: 43.99 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3274.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	165.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating Sub	1.00			3125.00	
Drill Pipe or Drill Collars	120.00			3245.00	
Change Over Sub	1.00			3246.00	
Shut-In Tool	5.00			3251.00	
Hydrolic Tool	5.00			3256.00	
Jars	6.00			3262.00	
Safety Joint	2.00			3264.00	
Packer	5.00			3269.00	150.00 Bottom Of Top Packer
Packer	5.00			3274.00	
Anchor	10.00			3284.00	
Change Over Sub	0.00			3284.00	
Drill Pipe	0.00			3284.00	
Change Over Sub	0.00			3284.00	
Bull Plug	5.00			3289.00	15.00 Bottom Packers & Anchor
Total Tool Length:		165.00			



DRILL STEM TEST REPORT

FLUID SUMMARY

SAMUEL GARY JR & ASSOCIATES INC

SCHEUERMAN # 1-15

1560 BROADWAY SUITE 2100
DENVER CO 80202

15-16S-16W RUSH

Job Ticket: 15361

DST#: 2

ATTN: TIM HENDRICS

Test Start: 2008.08.21 @ 13:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.58 in³

Resistivity: 0.25 ohm.m

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psia

Oil API:

Water Salinity:

42 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCMW 10%G 10%O 20%M 60%W	0.842
60.00	GOCMW 10%G 10%O 20%M 60%W	0.842
660.00	GO 15%G 85%O	9.258
2200.00	GAS IN PIPE	30.860

Total Length: 2980.00 ft

Total Volume: 41.802 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

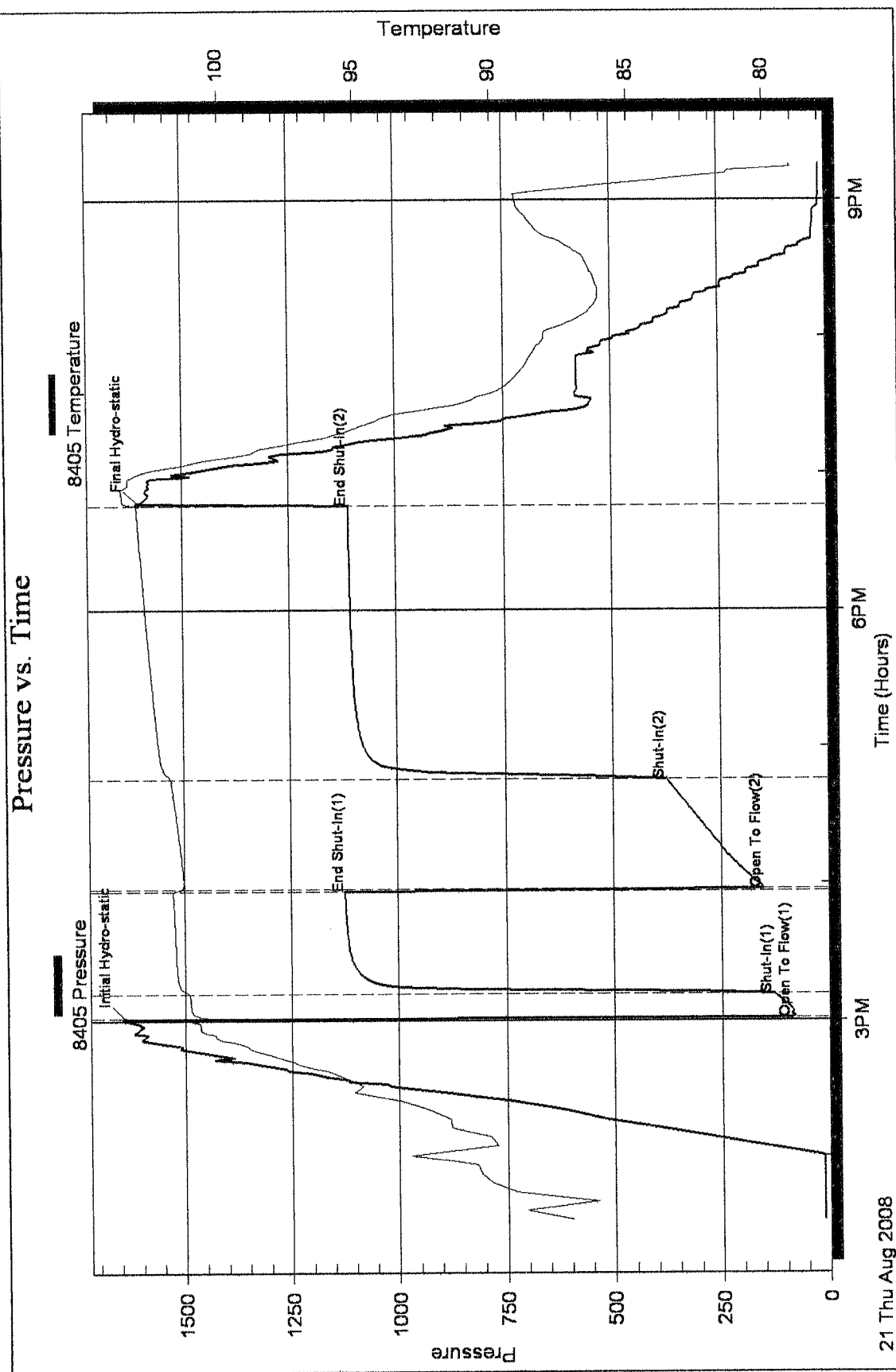
Laboratory Name:

Laboratory Location:

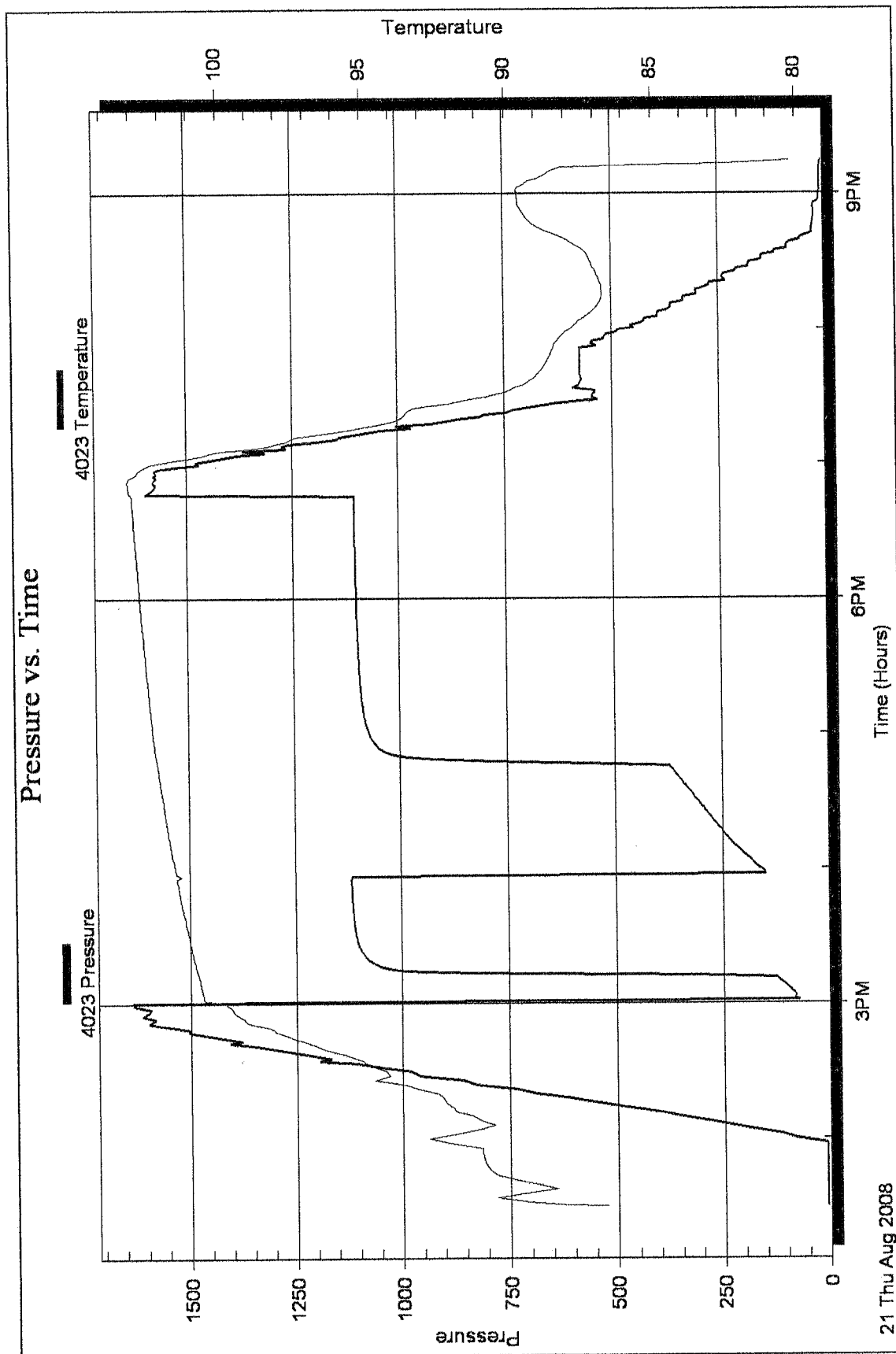
Recovery Comments: CHLORIDES 32,000

RESISTIVITY .25 @ 60 DEG

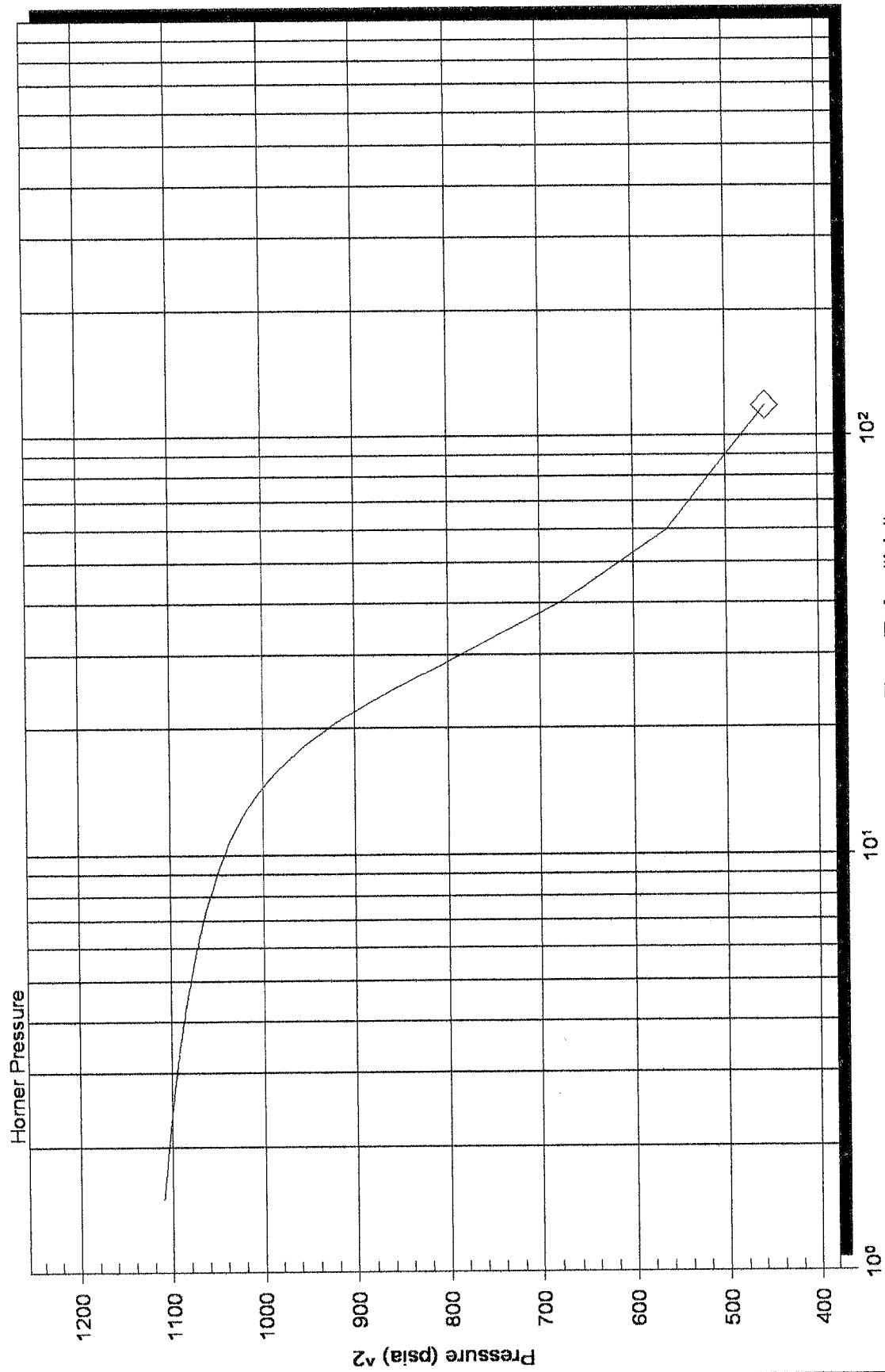
Pressure vs. Time



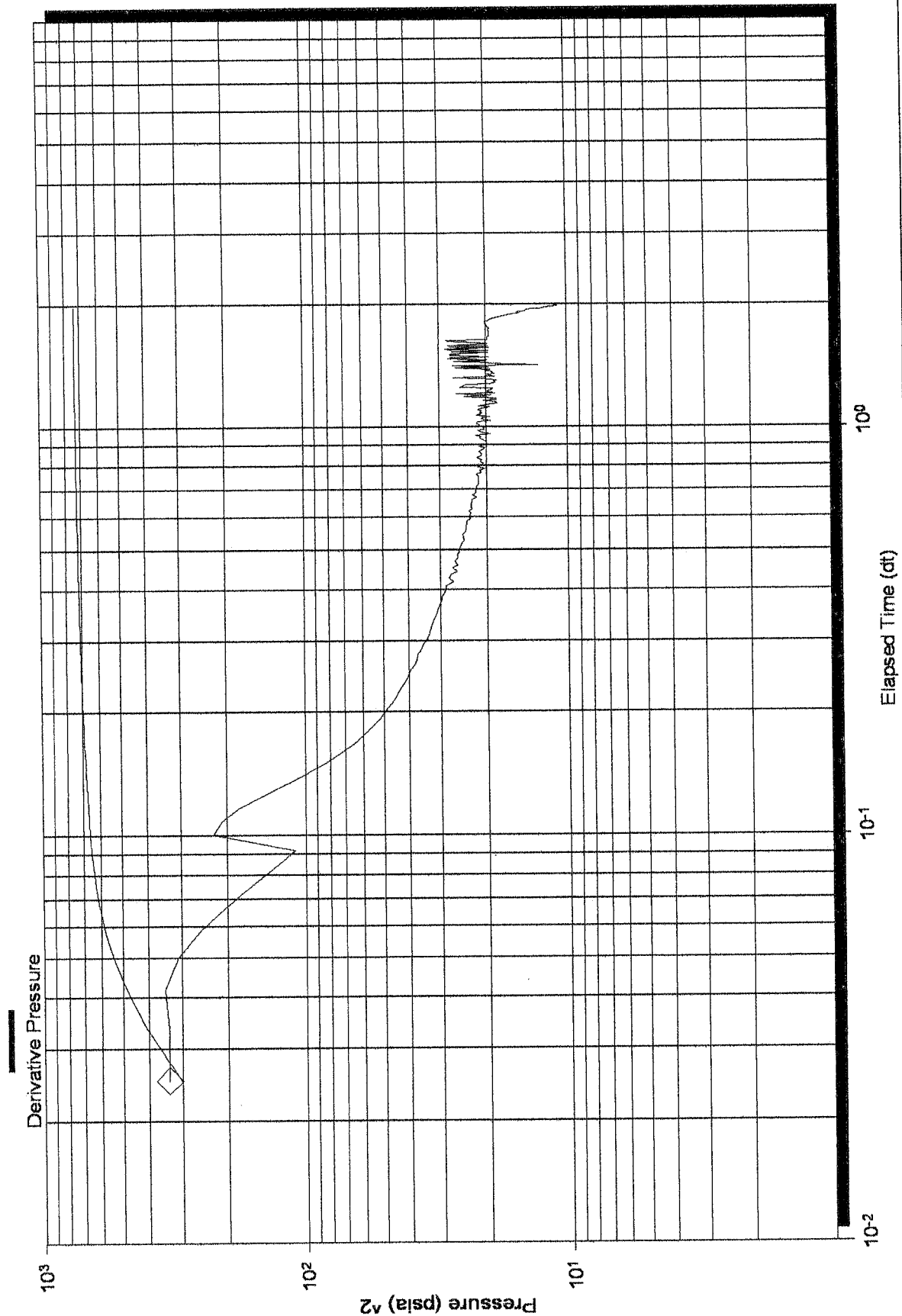
Pressure vs. Time

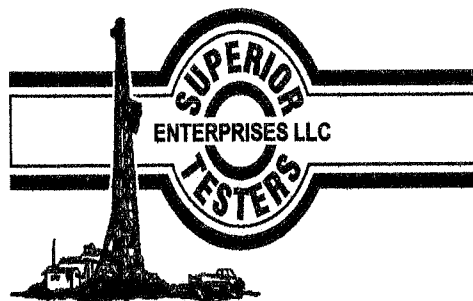


Homer Plot



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **SAMUEL GARY JR & ASSOCIATES INC**

1560 BROADWAY SUITE 2100
DENVER CO 80202

ATTN: TIM HENDRICS

15-16S-16W RUSH

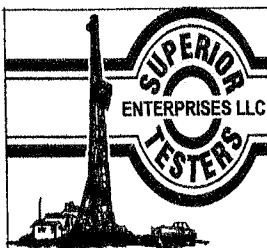
SCHEUERMAN # 1-15

Start Date: 2008.08.22 @ 15:10:00

End Date: 2008.08.22 @ 23:41:30

Job Ticket #: 15362 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902



DRILL STEM TEST REPORT

SAMUEL GARY JR & ASSOCIATES INC

SCHEUERMANN # 1-15

1560 BROADWAY SUITE 2100
DENVER CO 80202

15-16S-16W RUSH

Job Ticket: 15362

DST#: 3

ATTN: TIM HENDRICS

Test Start: 2008.08.22 @ 15:10:00

GENERAL INFORMATION:

Formation: **SIMPSON SAND**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:03:30

Time Test Ended: 23:41:30

Test Type: Conventional Bottom Hole

Tester: JARED SCHECK

Unit No: 3320 -75 - GB

Interval: **3443.00 ft (KB) To 3472.00 ft (KB) (TVD)**

Total Depth: 3472.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1903.00 ft (KB)

1896.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8405

Press@RunDepth: 119.08 psia @ ft (KB)

Start Date: 2008.08.22

End Date:

2008.08.22

Capacity: 5000.00 psia

Last Calib.: 2008.08.22

Start Time: 15:12:00

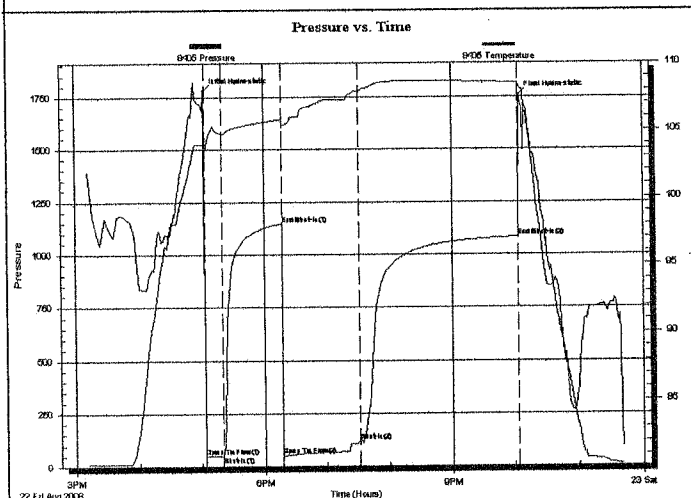
End Time:

23:41:30

Time On Btm: 2008.08.22 @ 17:03:00

Time Off Btm: 2008.08.22 @ 22:04:30

TEST COMMENT: 15/ INITIAL OPEN: WEAK BUT BUILDING BLOW BUILT 3 1/2 INCHES INTO BUCKET IN 15 MINUTES
60/ INITIAL SHUT IN: NO BLOW BACK
75/ FINAL OPEN: WEAK BUT BUILDING BLOW BUILT 4 INCHES OFF THE BOTTOM OF BUCKET



PRESSURE SUMMARY

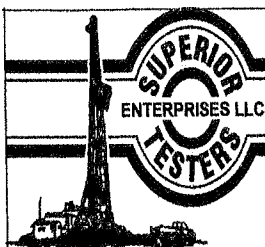
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1777.34	103.92	Initial Hydro-static
1	47.69	103.30	Open To Flow (1)
17	49.05	104.69	Shut-In(1)
74	1145.75	105.78	End Shut-In(1)
75	51.12	105.17	Open To Flow (2)
149	119.18	107.93	Shut-In(2)
301	1081.43	108.51	End Shut-In(2)
302	1754.91	108.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	CLEAN OIL 100%OIL	0.28
60.00	OCM 40%O 60%M	0.84

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

SAMUEL GARY JR & ASSOCIATES INC

SCHEUERMAN # 1-15

1560 BROADWAY SUITE 2100
DENVER CO 80202

15-16S-16W RUSH

Job Ticket: 15362

DST#: 3

ATTN: TIM HENDRICS

Test Start: 2008.08.22 @ 15:10:00

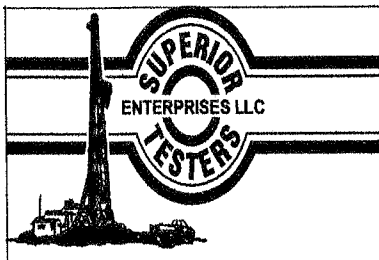
Tool Information

Drill Pipe:	Length: 3321.00 ft	Diameter: 3.80 inches	Volume: 46.58 bbl	Tool Weight:	10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	43000.00 lb
		Total Volume:	- bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3443.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 ft				
Tool Length:	179.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating Sub	1.00			3294.00	
Drill Pipe or Drill Collars	120.00			3414.00	
Change Over Sub	1.00			3415.00	
Shut-In Tool	5.00			3420.00	
Hydrolic Tool	5.00			3425.00	
Jars	6.00			3431.00	
Safety Joint	2.00			3433.00	
Packer	5.00			3438.00	150.00 Bottom Of Top Packer
Packer	5.00			3443.00	
Anchor	24.00			3467.00	
Change Over Sub	0.00			3467.00	
Drill Pipe	0.00			3467.00	
Change Over Sub	0.00			3467.00	
Bull Plug	5.00			3472.00	29.00 Bottom Packers & Anchor

Total Tool Length: 179.00



DRILL STEM TEST REPORT

FLUID SUMMARY

SAMUEL GARY JR & ASSOCIATES INC

SCHEUERMAN # 1-15

1560 BROADWAY SUITE 2100
DENVER CO 80202

15-16S-16W RUSH

Job Ticket: 15362

DST#: 3

ATTN: TIM HENDRICS

Test Start: 2008.08.22 @ 15:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 64.00 sec/qt

Water Loss: 11.59 in³

Resistivity: ohm.m

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psia

Oil API:

Water Salinity:

40 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	CLEAN OIL 100%OIL	0.281
60.00	OCM 40%O 60%M	0.842

Total Length: 80.00 ft

Total Volume: 1.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

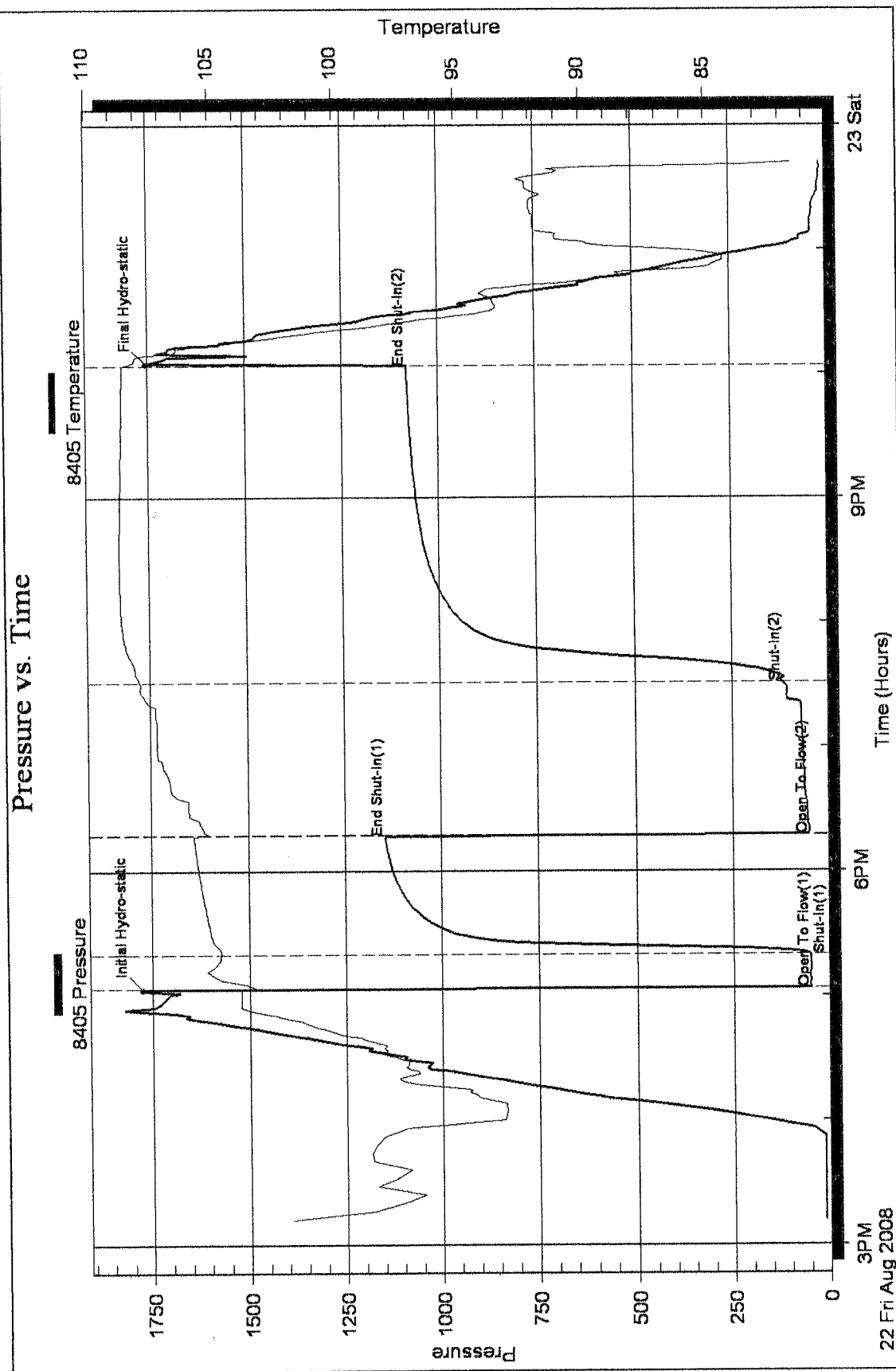
DST Test Number: 3

15-16S-16W RUSH

SAMUEL GARY JR & ASSOCIATES INC

Serial #: 8405

Pressure vs. Time



Ref. No: 15362

Superior Testers Enterprises LLC

Printed: 2008.08.25 @ 10:51:42 Page 7

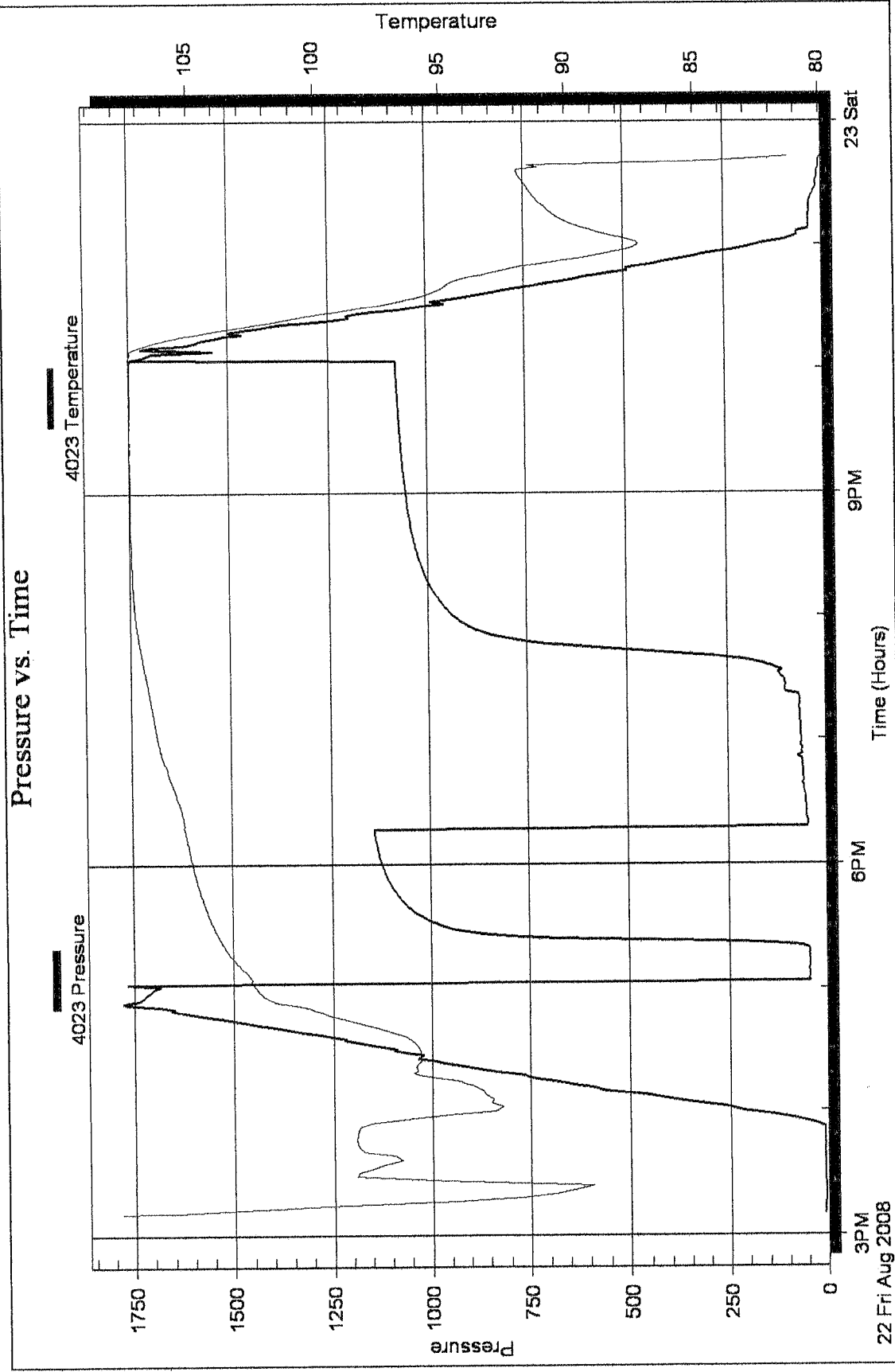
DST Test Number: 3

15-16S-16W RUSH

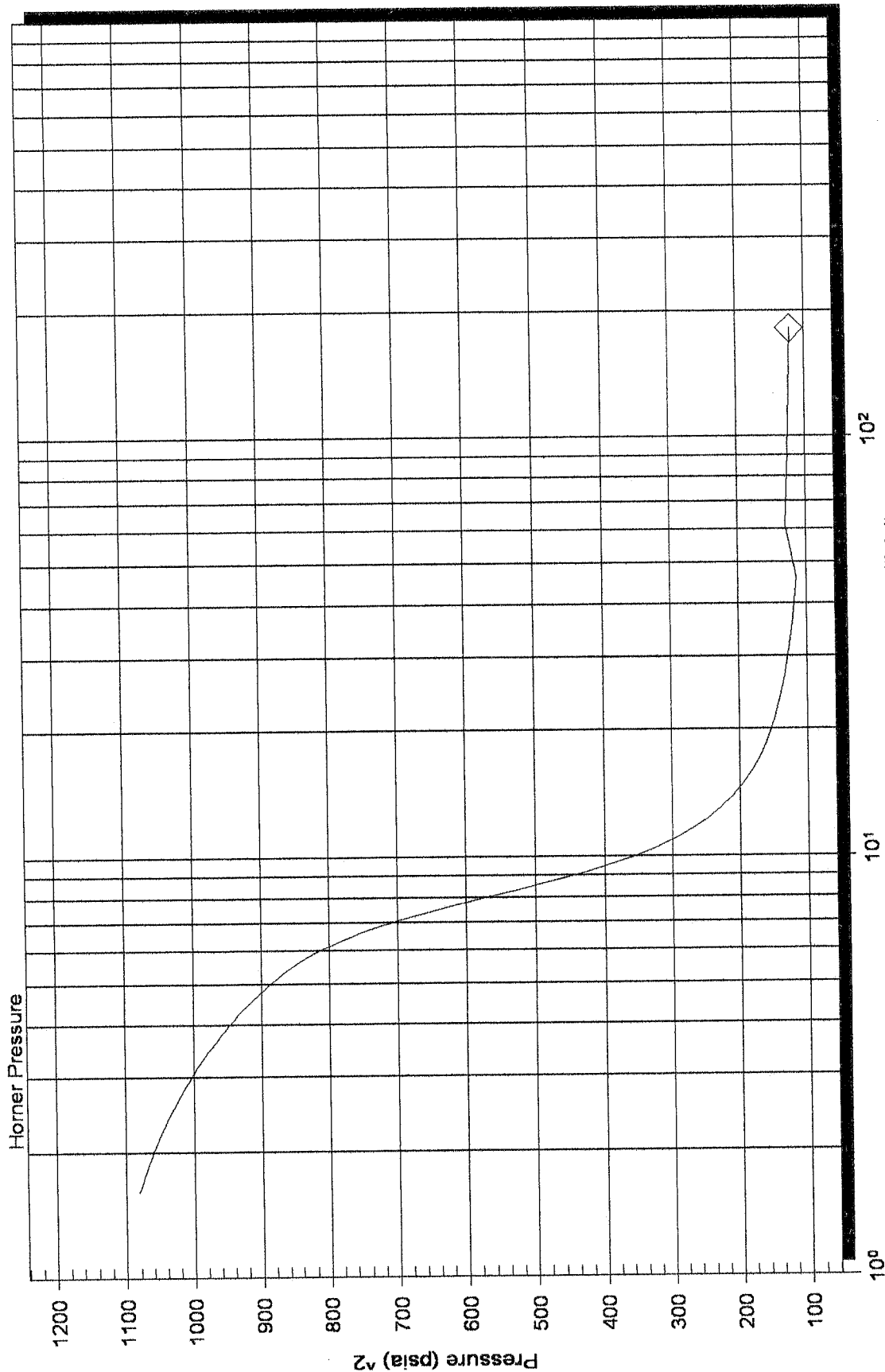
SAMUEL GARY JR & ASSOCIATES INC

Serial #: 4023

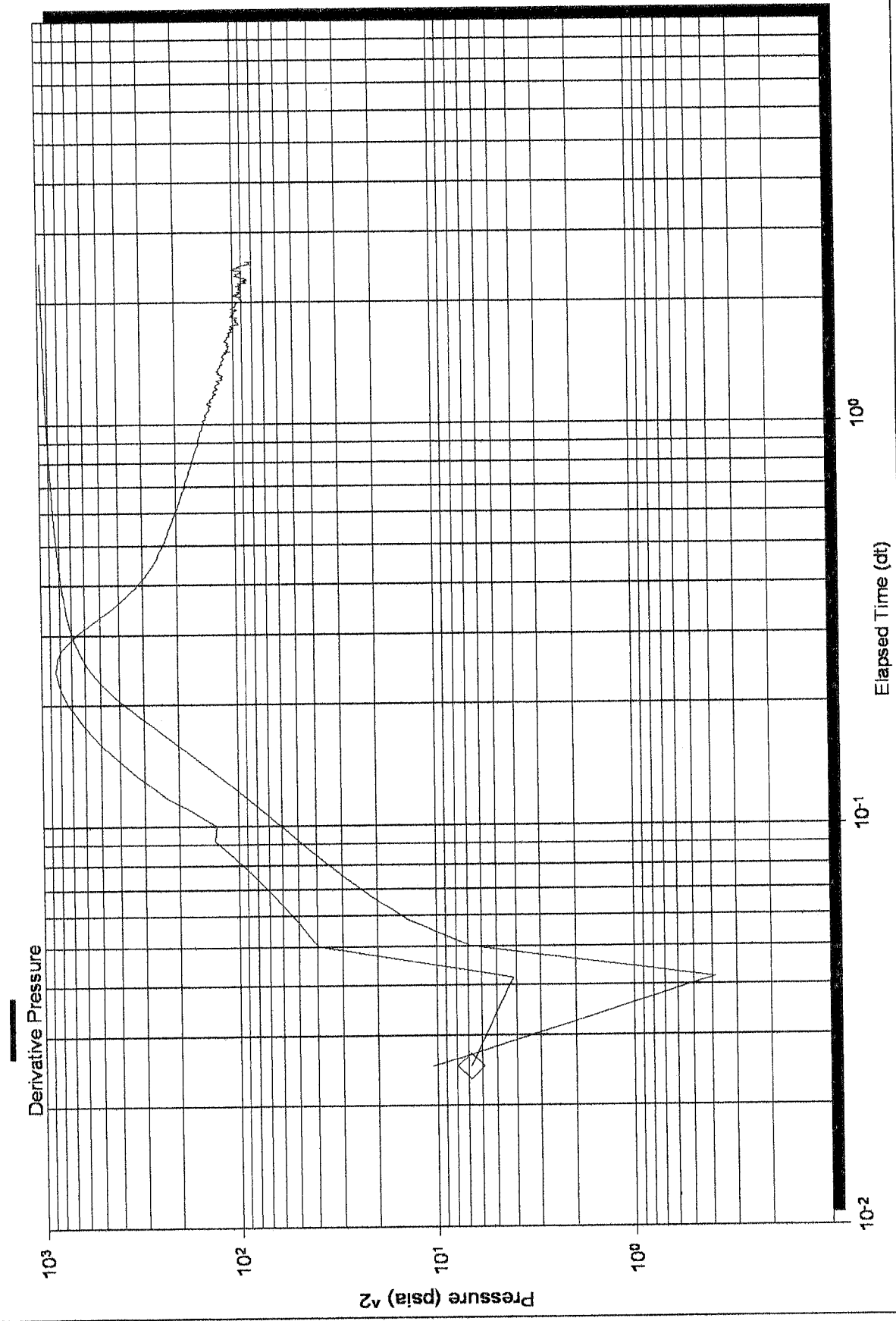
Pressure vs. Time

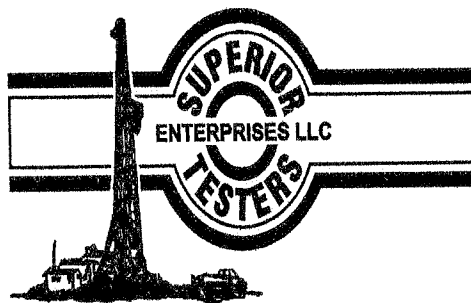


Horner Plot



Log-Log and Pseudo-Derivative





DRILL STEM TEST REPORT

Prepared For: **SAMUEL GARY JR & ASSOCIATES INC**

1560 BROADWAY SUITE 2100
DENVER CO 80202

ATTN: TIM HENDRICS

15-16S-16W RUSH

SCHEUERMANN # 1-15

Start Date: 2008.08.23 @ 09:15:00

End Date: 2008.08.23 @ 17:34:00

Job Ticket #: 15363

DST #: 4

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2008.08.25 @ 10:50:58 Page 1

SAMUEL GARY JR & ASSOCIATES INC

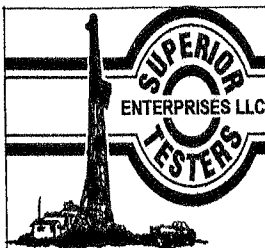
SCHEUERMANN # 1-15

15-16S-16W RUSH

DST # 4

ARBCKLE

2008.08.23



DRILL STEM TEST REPORT

SAMUEL GARY JR & ASSOCIATES INC

SCHEUERMAN # 1-15

1560 BROADWAY SUITE 2100
DENVER CO 80202

15-16S-16W RUSH

Job Ticket: 15363

DST#: 4

ATTN: TIM HENDRICS

Test Start: 2008.08.23 @ 09:15:00

GENERAL INFORMATION:

Formation: **ARBCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:01:30

Time Test Ended: 17:34:00

Test Type: Conventional Bottom Hole

Tester: JARED SCHECK

Unit No: 3320- 75 -GB

Interval: **3486.00 ft (KB) To 3499.00 ft (KB) (TVD)**

Total Depth: 3499.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1903.00 ft (KB)

1896.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8405

Press@RunDepth: 90.65 psia @ ft (KB)

Start Date: 2008.08.23

End Date:

2008.08.23

Capacity: 5000.00 psia

Last Calib.: 2008.08.23

Start Time: 09:17:00

End Time:

17:34:00

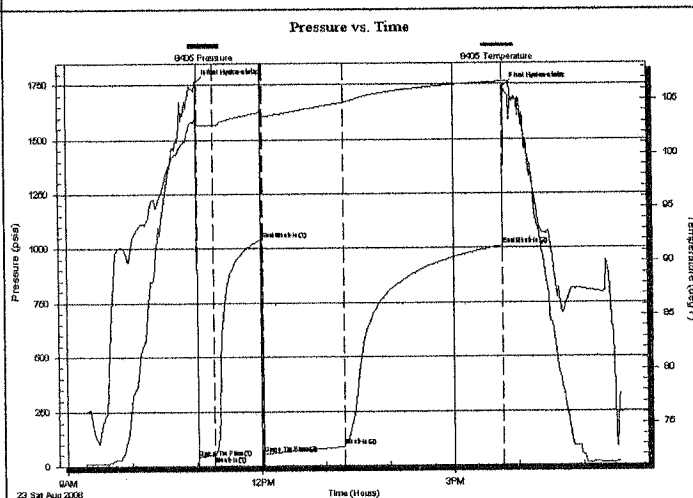
Time On Btm: 2008.08.23 @ 11:00:30

Time Off Btm: 2008.08.23 @ 15:46:30

TEST COMMENT: 15/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 4 INCHES INTO BUCKET IN 15 MINUTES

45/INITIAL SHUT IN:NO BLOW BACK

75/FINAL OPEN:WEAK BUT BUILDING BLOW BUILT 1 INCH OFF THE BOTTOM OF BUCKET IN 75 MINU



PRESSURE SUMMARY

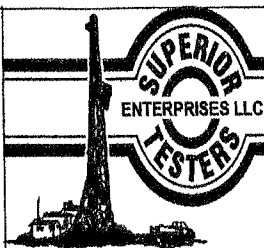
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1761.30	103.29	Initial Hydro-static
1	38.11	102.72	Open To Flow (1)
16	48.40	102.69	Shut-In(1)
60	1040.08	103.86	End Shut-In(1)
62	54.30	103.50	Open To Flow (2)
137	90.75	104.77	Shut-In(2)
286	1009.71	106.64	End Shut-In(2)
286	1739.58	106.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	O&M 20%O 80%M	0.84
70.00	CLEAN OIL 100%	0.98

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

SAMUEL GARY JR & ASSOCIATES INC

SCHEUERMAN # 1-15

1560 BROADWAY SUITE 2100
DENVER CO 80202

15-16S-16W RUSH

Job Ticket: 15363

DST#: 4

ATTN: TIM HENDRICS

Test Start: 2008.08.23 @ 09:15:00

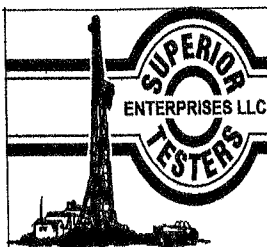
Tool Information

Drill Pipe:	Length: 3354.00 ft	Diameter: 3.80 inches	Volume: 47.05 bbl	Tool Weight:	10000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	46000.00 lb
		Total Volume:	- bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3486.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	163.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating Sub	1.00			3337.00	
Drill Pipe or Drill Collars	120.00			3457.00	
Change Over Sub	1.00			3458.00	
Shut-In Tool	5.00			3463.00	
Hydrolic Tool	5.00			3468.00	
Jars	6.00			3474.00	
Safety Joint	2.00			3476.00	
Packer	5.00			3481.00	150.00 Bottom Of Top Packer
Packer	5.00			3486.00	
Anchor	8.00			3494.00	
Change Over Sub	0.00			3494.00	
Drill Pipe	0.00			3494.00	
Change Over Sub	0.00			3494.00	
Bull Plug	5.00			3499.00	13.00 Bottom Packers & Anchor

Total Tool Length: 163.00



DRILL STEM TEST REPORT

FLUID SUMMARY

SAMUEL GARY JR & ASSOCIATES INC

SCHEUERMAN # 1-15

1560 BROADWAY SUITE 2100
DENVER CO 80202

15-16S-16W RUSH

Job Ticket: 15363

DST#: 4

ATTN: TIM HENDRICS

Test Start: 2008.08.23 @ 09:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 9.19 in³
Resistivity: ohm.m
Salinity: 6500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: 40 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	O&M 20%O 80%M	0.842
70.00	CLEAN OIL 100%	0.982

Total Length: 130.00 ft Total Volume: 1.824 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

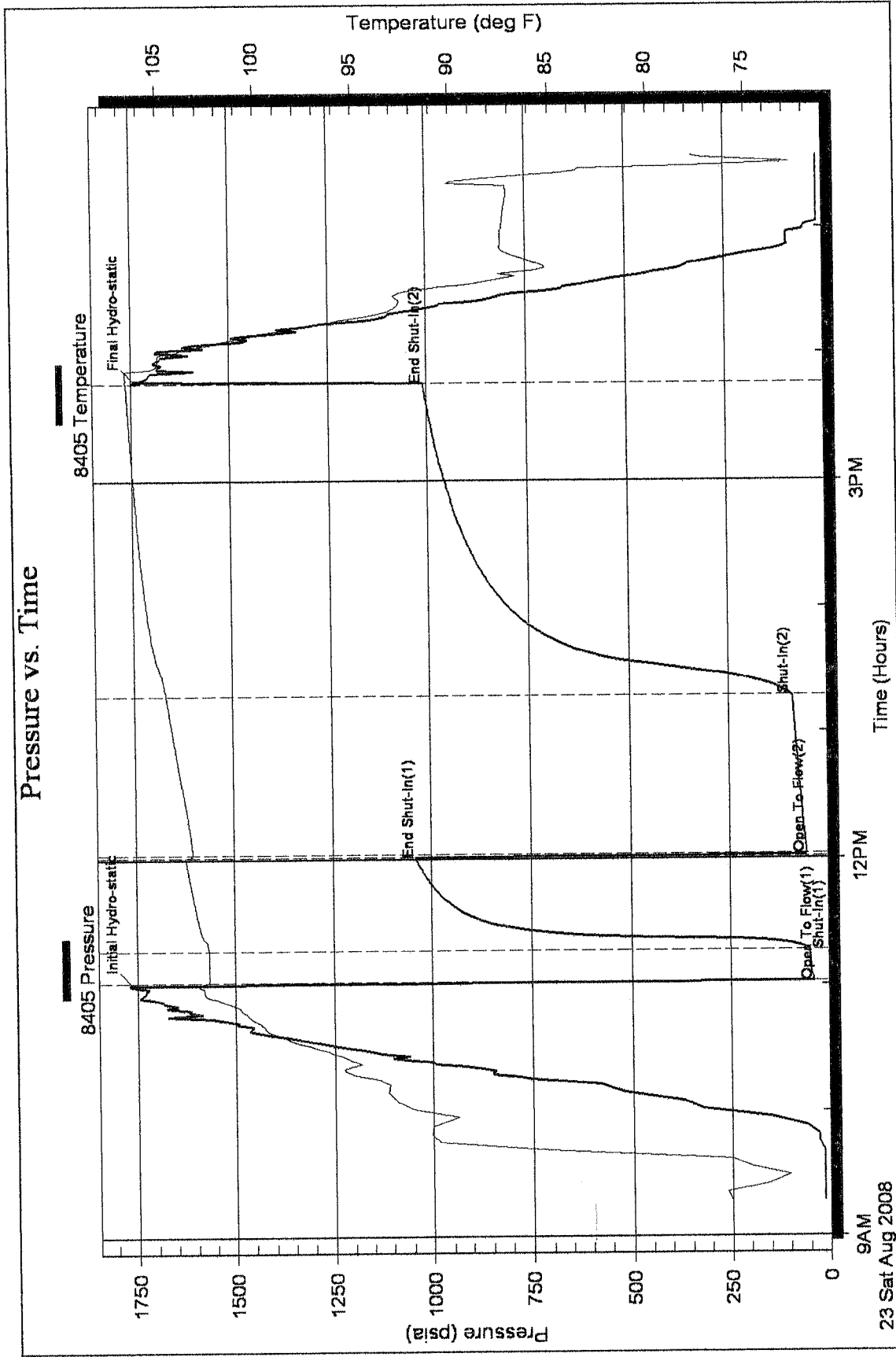
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



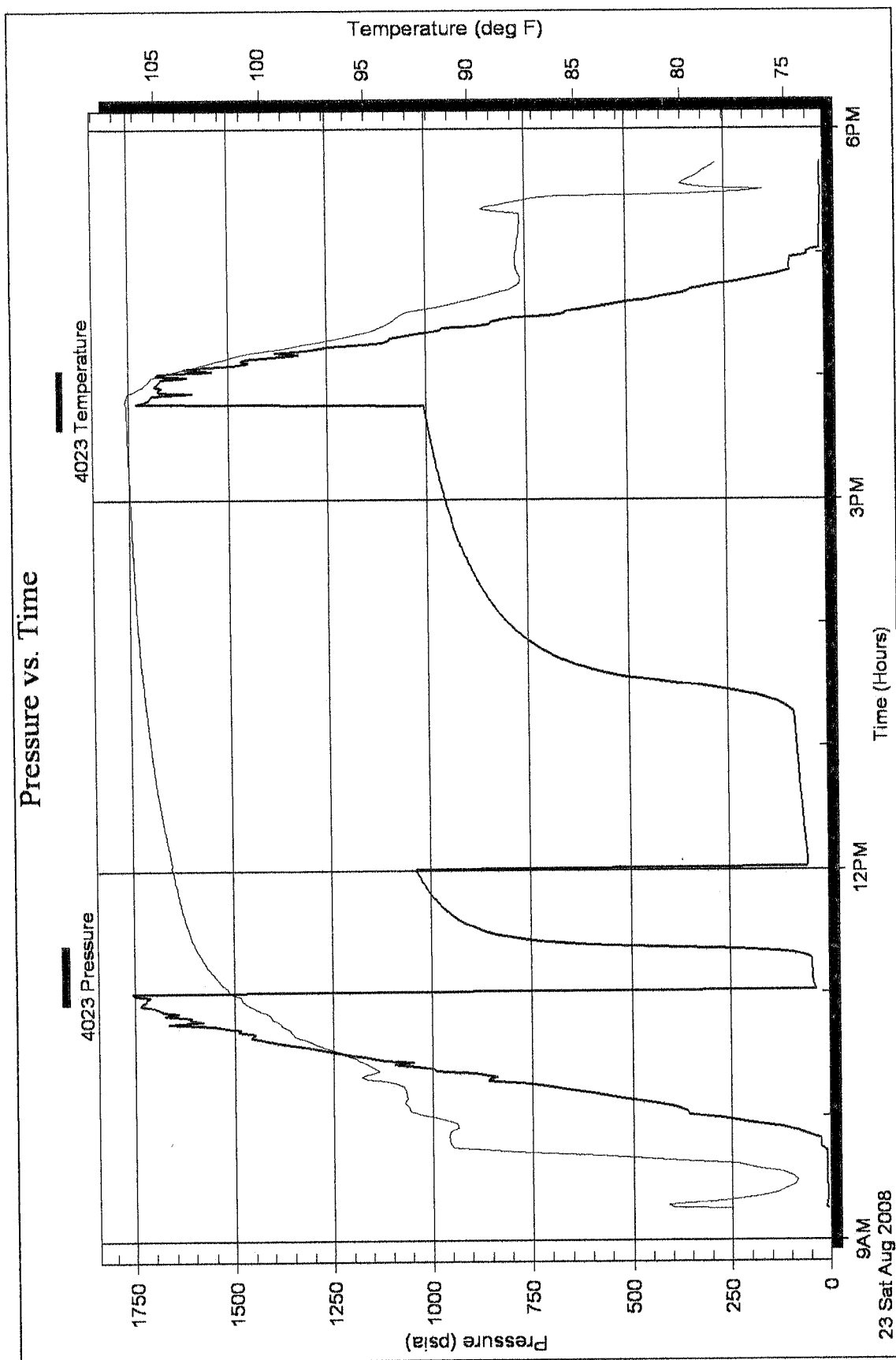
DST Test Number: 4

15-16S-16W RUSH

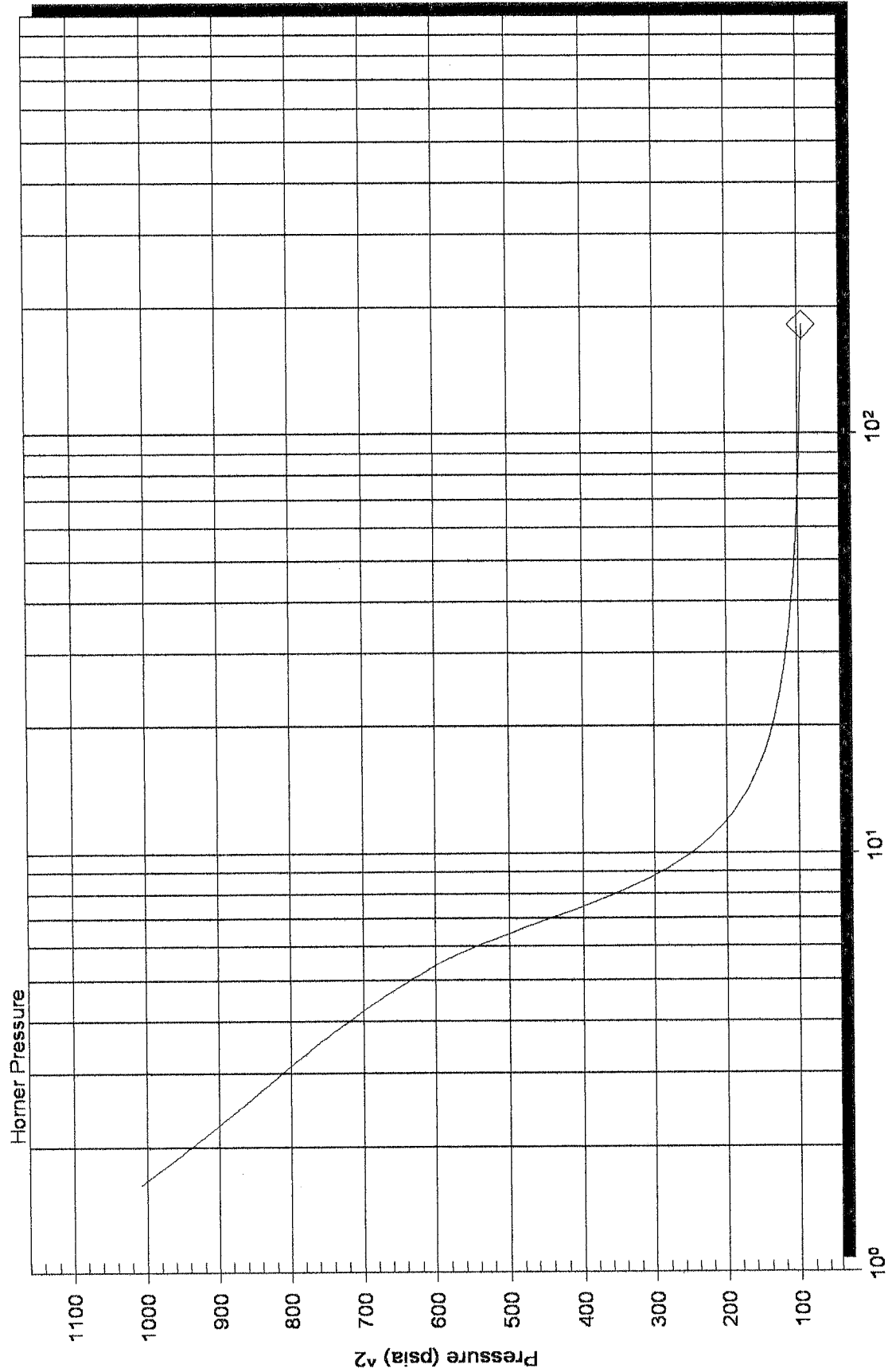
SAMUEL GARY JR & ASSOCIATES INC

Serial #: 4023

Pressure vs. Time



Horner Plot



Log-Log and Pseudo-Derivative

