



## DRILL STEM TEST REPORT

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

1515 Wynkoop St. Ste 700  
Denver, CO 80202

ATTN: Neil

**26/16S/16W-Rush**

**Maier 1-26**

Start Date: 2011.05.12 @ 00:02:27

End Date: 2011.05.12 @ 08:00:57

Job Ticket #: 42883                      DST #: 2

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26/16S/16W-Rush**

Job Ticket: 42883

**DST#: 2**

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:38:57

Time Test Ended: 08:00:57

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

**Interval: 3405.00 ft (KB) To 3421.00 ft (KB) (TVD)**

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3421.00 ft (KB) (TVD)

1975.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 8354 Inside**

Press @ Run Depth: 25.97 psig @ 3408.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.12

End Date: 2011.05.12

Last Calib.: 2011.05.13

Start Time: 00:12:27

End Time: 08:00:57

Time On Btm: 2011.05.12 @ 01:37:47

Time Off Btm: 2011.05.12 @ 05:50:57

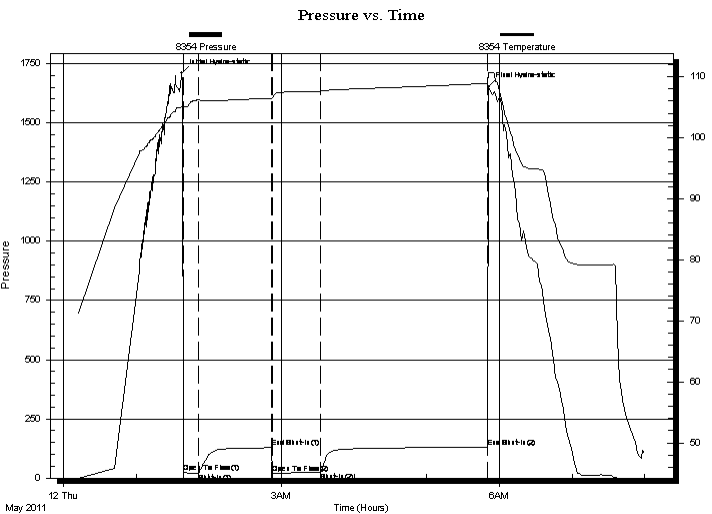
**TEST COMMENT:** IF-Fair building blow . Built to 8 inches.

ISI-No Return.

FF-Strong building blow . BOB in 30 seconds.

FSI-No Return.

Times- 10-60-40-135



## PRESSURE SUMMARY

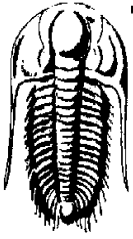
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1709.03	105.07	Initial Hydro-static
2	23.11	104.39	Open To Flow (1)
14	20.39	106.24	Shut-In(1)
75	128.37	106.46	End Shut-In(1)
75	21.69	106.48	Open To Flow (2)
115	25.97	107.60	Shut-In(2)
253	130.19	108.89	End Shut-In(2)
254	1651.30	110.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	85%Mud/15%Oil	0.35
0.00	642' Low Odor G.I.P.	0.00

## Gas Rates

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



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**26/16S/16W-Rush**

Job Ticket: 42883

**DST#: 2**

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:38:57

Time Test Ended: 08:00:57

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

**Interval: 3405.00 ft (KB) To 3421.00 ft (KB) (TVD)**

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3421.00 ft (KB) (TVD)

1975.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 8520 Outside**

Press @ Run Depth: psig @ 3408.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.12

End Date: 2011.05.12

Last Calib.: 2011.05.13

Start Time: 00:02:43

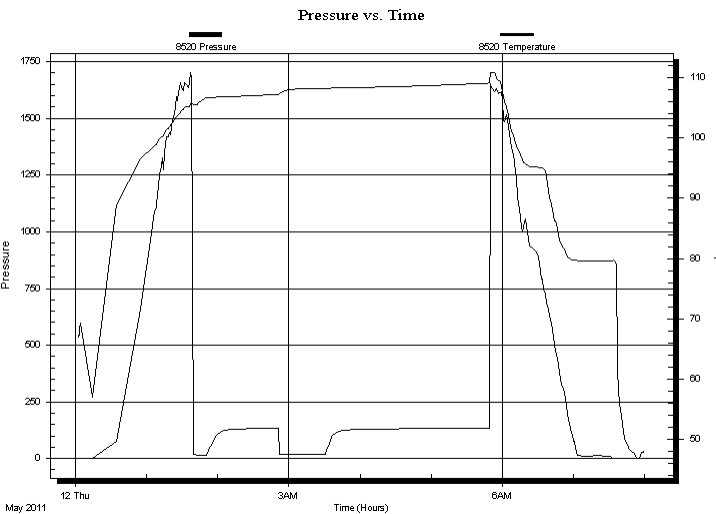
End Time: 08:00:12

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF-Fair building blow . Built to 8 inches.  
ISI-No Return.  
FF-Strong building blow . BOB in 30 seconds.  
FSI-No Return.

Times- 10-60-40-135



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	85%Mud/15%Oil	0.35
0.00	642' Low Odor G.I.P.	0.00

## Gas Rates

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



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**TESTING, INC**

**DRILL STEM TEST REPORT**

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26/16S/16W-Rush**

Job Ticket: 42883

**DST#: 2**

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

**GENERAL INFORMATION:**

Formation: **LKC "H"**

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

Time Tool Opened: 01:38:57

Time Test Ended: 08:00:57

Test Type: **Conventional Bottom Hole**

Tester: **Dustin Rash**

Unit No: **38**

**Interval: 3405.00 ft (KB) To 3421.00 ft (KB) (TVD)**

Total Depth: **3421.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1985.00 ft (KB)**

**1975.00 ft (CF)**

KB to GR/CF: **10.00 ft**

**Serial #: 8653 Fluid**

Press @ Run Depth: **psig @ 3375.00 ft (KB)**

Start Date: **2011.05.12**

End Date: **2011.05.12**

Capacity: **8000.00 psig**

Last Calib.: **2011.05.13**

Start Time: **00:03:08**

End Time: **07:58:07**

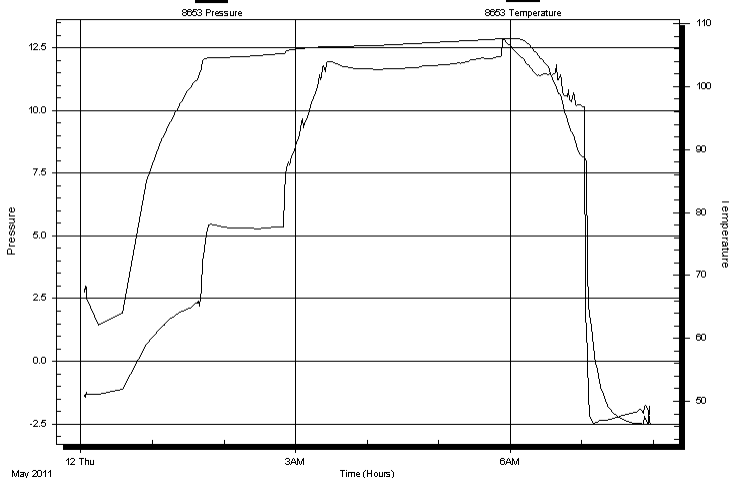
Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF-Fair building blow . Built to 8 inches.  
ISI-No Return.  
FF-Strong building blow . BOB in 30 seconds.  
FSI-No Return.

Times- 10-60-40-135

Pressure vs. Time



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
25.00	85%Mud/15%Oil	0.35
0.00	642' Low Odor G.I.P.	0.00

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26/16S/16W-Rush**

Job Ticket: 42883

**DST#: 2**

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

## Tool Information

Drill Pipe:	Length: 3383.00 ft	Diameter: 3.80 inches	Volume: 47.45 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	5000.00 lb
			<u>Total Volume: 47.45 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3405.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Recorder	0.00	8653	Fluid	3375.00	
Change Over Sub	1.00			3376.00	
Shut In Tool	5.00			3381.00	
Sampler	2.00			3383.00	
Hydraulic tool	5.00			3388.00	
Jars	5.00			3393.00	
Safety Joint	3.00			3396.00	
Packer	5.00			3401.00	30.00 Bottom Of Top Packer
Packer	4.00			3405.00	
Stubb	1.00			3406.00	
Perforations	2.00			3408.00	
Recorder	0.00	8354	Inside	3408.00	
Recorder	0.00	8520	Outside	3408.00	
Perforations	10.00			3418.00	
Bullnose	3.00			3421.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

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Denver, CO 80202

**26/16S/16W-Rush**

Job Ticket: 42883

**DST#: 2**

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

## 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:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	85%Mud/15%Oil	0.351
0.00	642' Low Odor G.I.P.	0.000

Total Length: 25.00 ft      Total Volume: 0.351 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Sampler-1100 ML-Mud, 500 ML-Oil.  
Pressure- 125#



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# DRILL STEM TEST REPORT

**GAS RATES**

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

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Denver, CO 80202

**26/16S/16W-Rush**

Job Ticket: 42883

**DST#: 2**

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

## Gas Rates Information

Temperature: 59 deg C

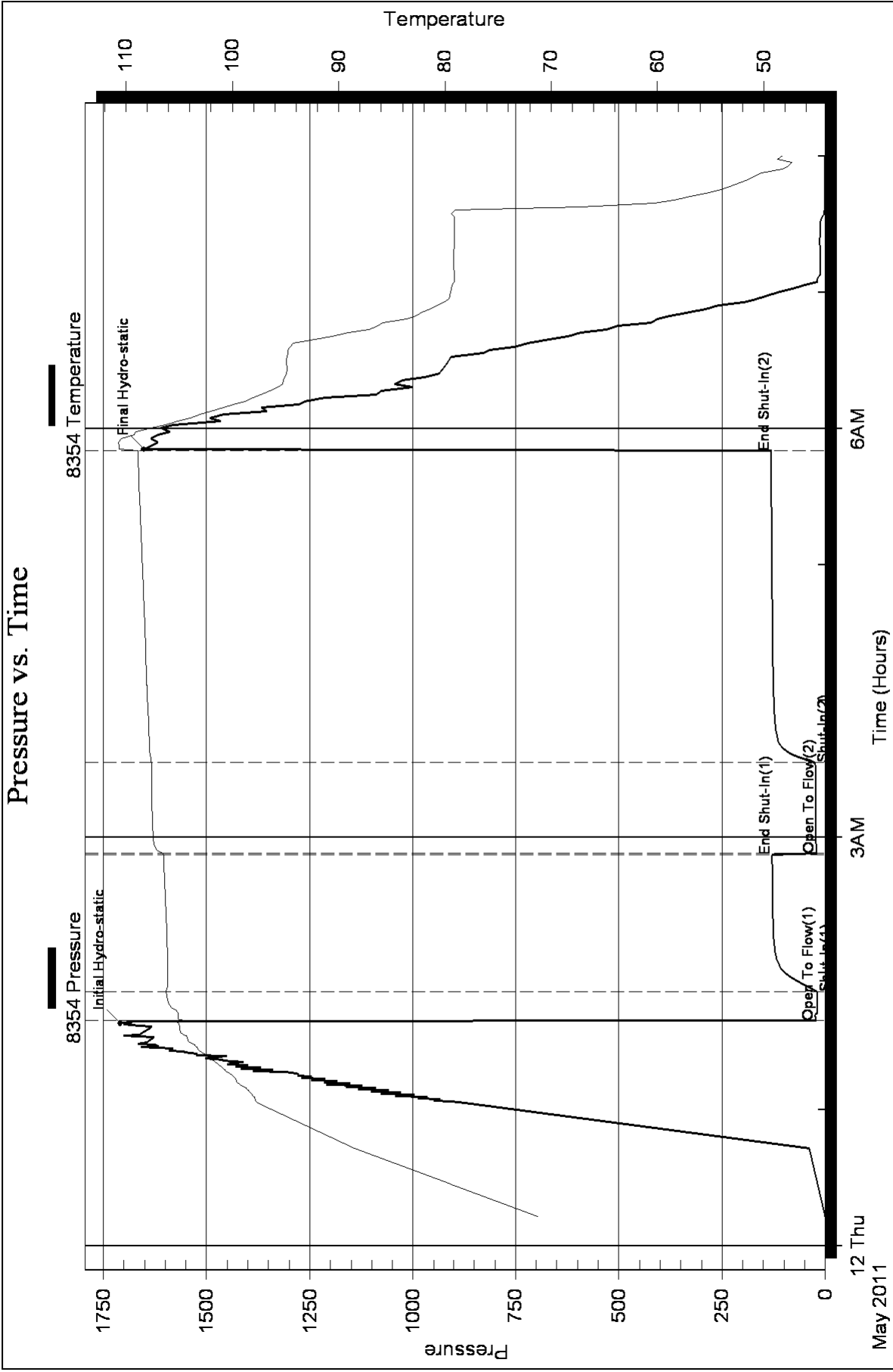
Relative Density: 0.65

Z Factor: 0.8

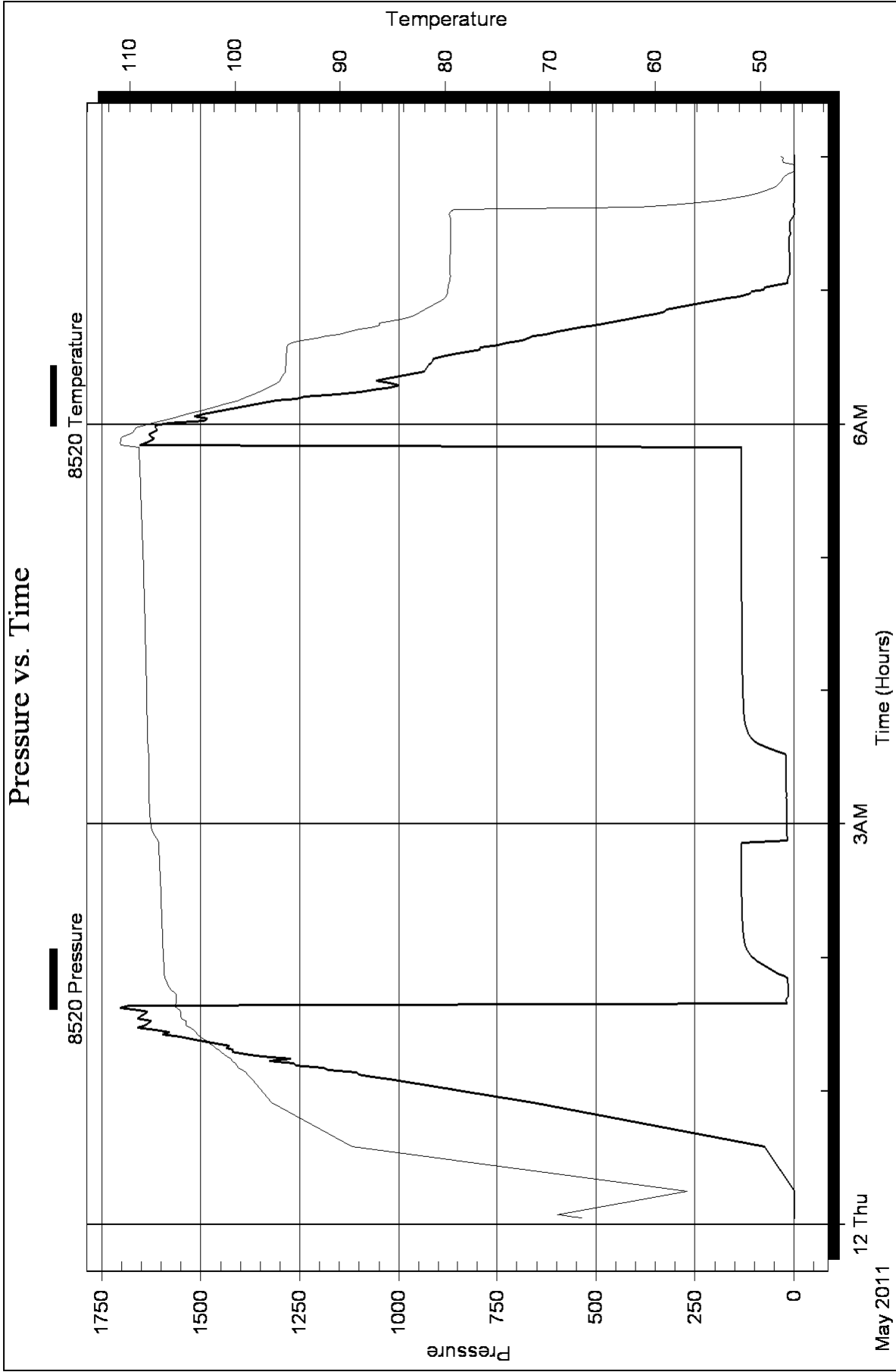
Gas Rates Table

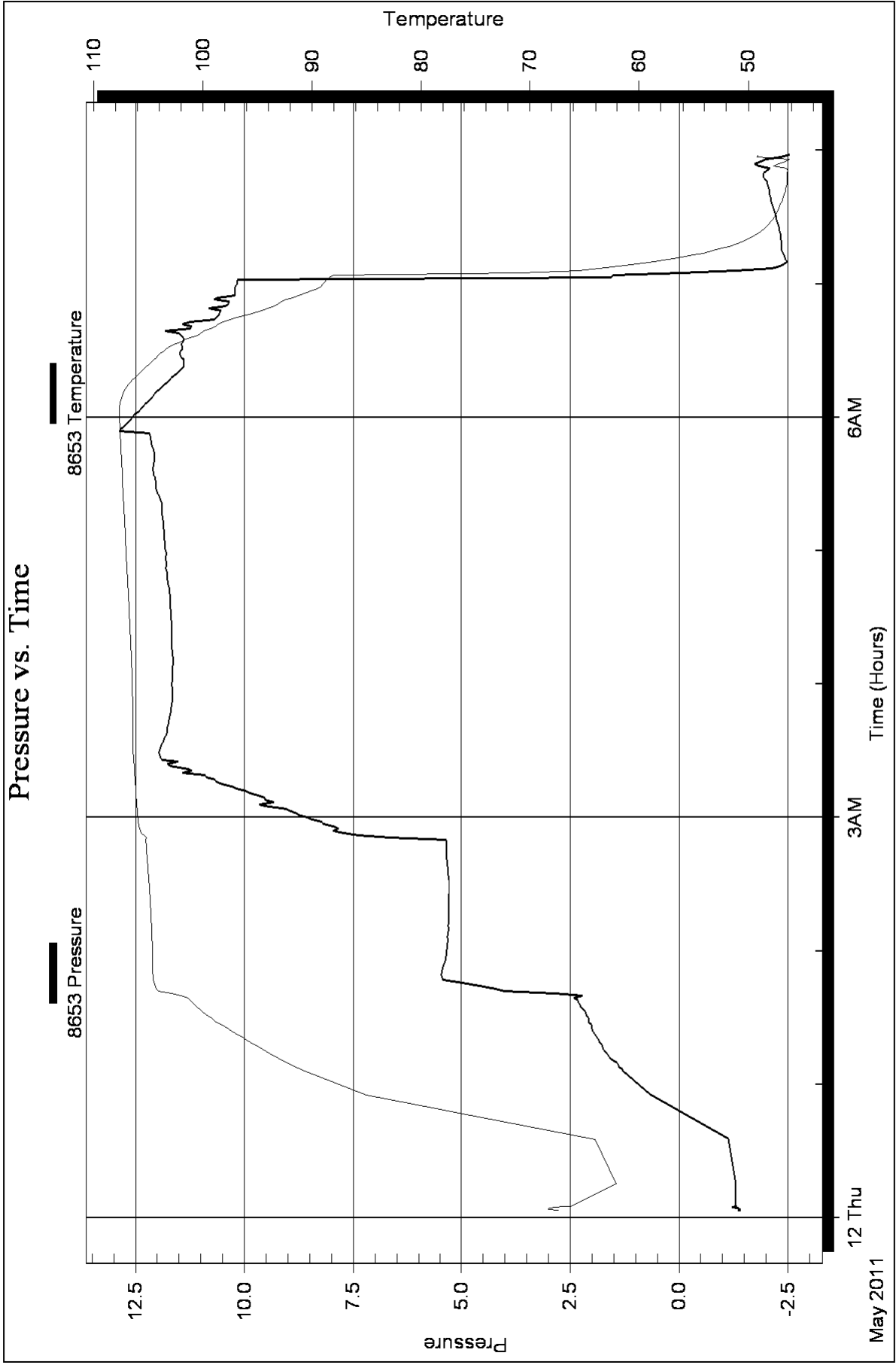
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
		0.00	0.00	0.00

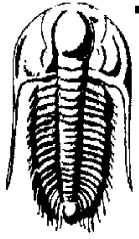
### Pressure vs. Time











**TRILOBITE  
TESTING, INC.**

## DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26/16S/16W-Rush**

Job Ticket: 42883

**DST#: 2**

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	1.29	71.3		71.2	1523.78	102.5
	40.0	279.13	93.1		71.8	1597.12	102.7
	50.5	905.60	97.8		72.5	1554.81	102.9
	51.2	949.18	97.8		73.2	1590.97	103.1
	51.8	935.28	97.9		73.8	1583.50	103.2
	52.5	966.08	97.9		74.5	1689.23	103.3
	53.2	1042.42	98.1		75.2	1615.81	103.4
	53.8	997.10	98.1		75.8	1670.83	103.5
	54.5	1029.79	98.3		76.5	1646.66	103.9
	55.2	1101.28	98.4		77.2	1642.58	104.1
	55.8	1059.80	98.5		77.8	1636.67	104.2
	56.5	1090.73	98.6		78.5	1630.87	104.2
	57.2	1161.31	98.8		79.2	1626.34	104.2
	57.8	1123.20	99.2		79.8	1631.61	104.3
	58.5	1154.06	99.4		80.5	1660.18	104.7
	59.2	1214.55	99.5		81.2	1654.40	104.8
	59.8	1183.90	99.6		81.8	1647.96	104.9
	60.5	1215.74	99.7		82.5	1641.99	104.9
	61.2	1270.46	99.8		83.2	1636.41	105.0
	61.8	1229.95	99.9		83.8	1632.75	105.0
	62.5	1276.59	100.1		84.5	1680.83	105.0
	63.2	1283.14	100.2		85.0	1662.72	105.0
	63.8	1297.28	100.5		85.2	1682.94	105.0
	64.5	1339.20	100.7	Initial Hydro-static	85.3	1709.03	105.1
	65.2	1417.57	100.8		85.5	1690.06	105.1
	65.8	1369.30	101.0		85.7	1679.72	105.2
	66.5	1402.09	101.1		85.8	1680.22	105.3
	67.2	1449.70	101.4		86.2	1684.12	105.3
	67.8	1431.33	101.5		86.3	1687.15	105.4
	68.5	1468.04	101.7	Open To Flow (1)	86.5	23.11	104.4
	69.2	1461.17	101.9		86.7	23.33	104.9
	69.8	1540.25	102.0		86.8	22.70	105.1
	70.5	1492.56	102.2		87.0	22.96	105.1

Printing every 4 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	87.7	23.45	105.0		117.0	121.62	106.1
	88.3	23.64	105.1		119.0	122.84	106.1
	89.0	23.70	105.1		121.0	123.74	106.1
	89.7	18.73	105.1		123.0	124.57	106.1
	90.3	19.34	105.2		125.0	125.08	106.2
	91.0	18.51	105.2		127.0	125.52	106.2
	91.7	18.39	105.6		129.0	125.82	106.2
	92.3	18.40	105.8		131.0	126.03	106.2
	93.0	18.51	105.9		133.0	126.22	106.2
	93.7	18.60	105.9		135.0	126.51	106.2
	94.3	18.73	106.0		137.0	126.95	106.3
	95.0	18.84	106.1		139.0	127.12	106.3
	95.7	18.95	106.1		141.0	127.26	106.3
	96.3	19.08	106.1		143.0	127.41	106.3
	97.0	19.21	106.1		145.0	127.55	106.3
	97.7	19.28	106.2		147.0	127.69	106.3
	98.3	19.36	106.2		149.0	127.82	106.4
	98.8	19.56	106.2		151.0	127.98	106.4
	99.0	19.62	106.2		153.0	128.13	106.4
Shut-In(1)	99.2	20.39	106.2		155.0	128.22	106.4
	99.3	21.93	106.2		157.0	128.31	106.4
	99.5	23.63	106.2		158.5	128.35	106.5
	99.7	25.38	106.2		159.0	128.37	106.5
	100.3	32.61	106.1	End Shut-In(1)	159.5	128.37	106.5
	101.0	39.58	106.1	Open To Flow (2)	160.0	21.69	106.5
	101.7	46.41	106.1		160.5	21.91	106.7
	102.3	53.17	106.1		161.0	21.37	106.9
	103.0	60.07	106.1		163.0	21.48	107.3
	103.7	66.64	106.0		165.0	22.06	107.4
	104.3	73.05	106.0		167.0	22.16	107.4
	105.0	79.35	106.0		169.0	22.21	107.4
	105.7	84.94	106.0		171.0	22.28	107.5
	106.3	90.24	106.0		173.0	22.35	107.5
	107.0	95.03	106.0		175.0	22.41	107.5
	107.7	99.18	106.1		177.0	22.48	107.5
	108.3	102.93	106.1		179.0	22.60	107.5
	109.0	106.19	106.1		181.0	22.71	107.5
	109.7	109.01	106.1		183.0	22.84	107.6
	111.0	112.18	106.1		185.0	22.93	107.6
	113.0	116.96	106.1		187.0	23.03	107.6
	115.0	119.74	106.1		189.0	23.12	107.6

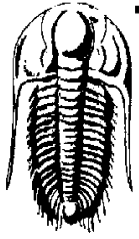
Printing every 4 samples

<b>Serial # 8354</b>	<b>Inside</b>			<b>Serial # 8354</b>	<b>Inside</b>		
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	191.0	23.21	107.6		265.5	127.82	108.3
	193.0	23.31	107.6		267.5	127.94	108.3
	195.0	23.36	107.6		269.5	128.06	108.3
	197.0	23.42	107.6		271.5	128.19	108.3
	199.0	23.52	107.6		273.5	128.30	108.3
	199.5	23.51	107.6		275.5	128.41	108.3
Shut-In(2)	200.0	25.97	107.6		277.5	128.51	108.4
	200.5	34.33	107.6		279.5	128.63	108.4
	201.0	42.52	107.6		281.5	128.74	108.4
	201.5	50.55	107.7		283.5	128.82	108.4
	203.5	78.81	107.7		285.5	128.90	108.4
	205.5	98.04	107.8		287.5	128.98	108.5
	207.5	108.26	107.8		289.5	129.07	108.5
	209.5	113.70	107.8		291.5	129.18	108.5
	211.5	116.96	107.8		293.5	129.28	108.5
	213.5	118.88	107.8		295.5	129.37	108.5
	215.5	120.31	107.9		297.5	129.46	108.5
	217.5	121.25	107.9		299.5	129.54	108.5
	219.5	122.10	107.9		301.5	129.62	108.6
	221.5	122.72	107.9		303.5	129.69	108.6
	223.5	123.26	107.9		305.5	129.73	108.6
	225.5	123.71	108.0		307.5	129.78	108.6
	227.5	124.08	108.0		309.5	129.83	108.6
	229.5	124.55	108.0		311.5	129.89	108.7
	231.5	124.83	108.0		313.5	129.97	108.7
	233.5	125.07	108.0		315.5	130.02	108.7
	235.5	125.67	108.0		317.5	130.09	108.7
	237.5	125.50	108.1		319.5	130.14	108.7
	239.5	126.04	108.1		321.5	130.18	108.8
	241.5	125.89	108.1		323.5	130.22	108.8
	243.5	126.38	108.1		325.5	130.26	108.8
	245.5	126.50	108.1		327.5	130.31	108.8
	247.5	126.65	108.1		329.5	130.36	108.8
	249.5	126.77	108.1		331.5	130.38	108.8
	251.5	126.89	108.2		333.5	130.39	108.9
	253.5	127.01	108.2		335.5	130.38	108.9
	255.5	127.12	108.2		336.5	130.36	108.9
	257.5	127.24	108.2		337.0	130.32	108.9
	259.5	127.39	108.2	End Shut-In(2)	337.5	130.19	108.9
	261.5	127.53	108.2		338.0	1560.94	110.5
	263.5	127.68	108.2	Final Hydro-static	338.5	1651.30	110.7

Printing every 4 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	339.0	1643.69	110.6		421.0	11.77	79.1
	341.0	1621.18	110.7		423.0	11.66	79.1
	343.0	1633.78	110.4		425.0	11.19	79.1
	345.0	1612.36	109.2		427.0	12.37	79.1
	347.0	1524.54	109.0		429.0	12.89	79.1
	349.0	1580.15	106.3		431.0	14.00	79.1
	351.0	1521.15	104.6		433.0	10.91	79.1
	353.0	1451.80	103.3		435.0	11.54	79.1
	355.0	1354.22	102.0		437.0	11.53	79.1
	357.0	1310.47	100.7		439.0	11.51	79.1
	359.0	1298.03	99.3		441.0	7.09	79.3
	361.0	1214.23	98.1		443.0	1.98	79.0
	363.0	1123.60	97.0		445.0	1.14	67.2
	365.0	1033.34	95.9		447.0	0.55	59.7
	367.0	1044.59	95.3		449.0	0.64	57.4
	369.0	994.56	95.1		451.0	0.73	55.5
	371.0	943.10	94.9		453.0	0.80	53.9
	373.0	930.41	94.9		455.0	0.81	52.6
	375.0	922.52	94.9		457.0	0.79	51.5
	377.0	914.86	94.9		459.0	0.73	50.7
	379.0	905.02	94.9		461.0	0.70	48.5
	381.0	844.41	94.8		463.0	0.73	47.7
	383.0	782.55	94.7		465.0	0.64	47.3
	385.0	719.95	94.3		467.0	0.62	48.4
	387.0	655.14	92.0		468.5	0.62	49.1
	389.0	593.14	89.5				
	391.0	529.77	87.2				
	393.0	472.06	85.8				
	395.0	397.64	84.2				
	397.0	376.89	82.8				
	399.0	318.27	81.8				
	401.0	254.54	81.0				
	403.0	198.77	80.2				
	405.0	169.22	79.7				
	407.0	110.41	79.4				
	409.0	79.77	79.4				
	411.0	30.59	79.2				
	413.0	18.39	79.1				
	415.0	12.64	79.1				
	417.0	12.02	79.1				
	419.0	11.75	79.1				

Printing every 3 samples



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26/16S/16W-Rush**

Job Ticket: 42883

**DST#: 2**

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.13	66.9		1.6	-1.17	69.3
	0.1	-1.18	67.0		1.7	-1.16	69.3
	0.1	-1.17	67.1		1.8	-1.15	69.3
	0.2	-1.18	67.1		1.8	-1.12	69.3
	0.2	-1.21	67.2		1.9	-1.11	69.3
	0.3	-1.24	67.3		1.9	-1.09	69.3
	0.3	-1.26	67.3		2.0	-1.09	69.3
	0.3	-1.27	67.4		12.0	-1.03	56.9
	0.4	-1.25	67.5		42.0	351.06	94.0
	0.4	-1.24	67.5		62.5	1024.98	98.4
	0.5	-1.26	67.6		64.0	1028.91	98.7
	0.6	-1.27	67.7		65.5	1105.80	99.0
	0.6	-1.29	67.8		67.0	1121.75	99.5
	0.7	-1.30	67.9		68.5	1259.23	99.8
	0.7	-1.31	68.0		70.0	1214.59	100.1
	0.8	-1.31	68.1		71.5	1272.27	100.4
	0.8	-1.28	68.2		73.0	1307.19	101.0
	0.9	-1.27	68.3		74.5	1419.52	101.3
	0.9	-1.28	68.4		76.0	1400.02	101.7
	0.9	-1.27	68.5		77.5	1428.03	102.1
	1.0	-1.26	68.6		79.0	1470.76	102.4
	1.1	-1.25	68.6		80.5	1523.20	103.0
	1.1	-1.23	68.7		82.0	1553.00	103.4
	1.1	-1.20	68.8		83.5	1579.93	103.7
	1.2	-1.20	68.9		85.0	1609.50	104.0
	1.3	-1.19	68.9		86.5	1640.70	104.6
	1.3	-1.20	69.0		88.0	1627.49	104.7
	1.4	-1.21	69.1		89.5	1660.05	105.1
	1.4	-1.19	69.1		91.0	1647.46	105.2
	1.5	-1.17	69.2		92.5	1634.37	105.2
	1.5	-1.16	69.3		94.0	1697.02	105.2
	1.6	-1.16	69.3		95.5	1682.70	105.8
	1.6	-1.15	69.3		97.0	18.46	105.6

Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	18.98	105.6		160.0	132.02	107.2
	100.0	14.57	105.6		161.5	132.05	107.2
	101.5	14.29	105.8		163.0	132.07	107.2
	103.0	14.71	106.2		164.5	132.09	107.2
	104.5	14.44	106.4		166.0	132.11	107.2
	106.0	14.98	106.5		167.5	132.12	107.3
	107.5	15.12	106.6		169.0	16.54	107.3
	109.0	29.46	106.7		170.5	16.28	107.5
	110.5	45.49	106.8		172.0	16.26	107.7
	112.0	61.00	106.8		173.5	17.08	107.8
	113.5	75.94	106.8		175.0	16.98	107.9
	115.0	89.48	106.8		176.5	17.14	108.0
	116.5	100.81	106.8		178.0	17.23	108.0
	118.0	109.52	106.8		179.5	17.67	108.1
	119.5	115.64	106.8		181.0	17.77	108.1
	121.0	119.77	106.8		182.5	17.87	108.1
	122.5	122.68	106.9		184.0	18.00	108.1
	124.0	124.59	106.9		185.5	17.77	108.1
	125.5	126.09	106.9		187.0	17.96	108.2
	127.0	127.18	106.9		188.5	18.43	108.2
	128.5	128.00	106.9		190.0	18.24	108.2
	130.0	128.70	106.9		191.5	18.69	108.2
	131.5	129.18	106.9		193.0	18.81	108.2
	133.0	129.57	106.9		194.5	18.91	108.2
	134.5	129.94	106.9		196.0	19.02	108.2
	136.0	130.22	107.0		197.5	19.13	108.2
	137.5	130.47	107.0		199.0	19.25	108.2
	139.0	131.00	107.0		200.5	19.34	108.2
	140.5	131.14	107.0		202.0	19.45	108.2
	142.0	131.26	107.0		203.5	19.51	108.2
	143.5	131.36	107.0		205.0	19.58	108.2
	145.0	131.16	107.0		206.5	19.62	108.2
	146.5	131.55	107.0		208.0	19.66	108.2
	148.0	131.62	107.1		209.5	37.87	108.2
	149.5	131.69	107.1		211.0	61.66	108.3
	151.0	131.75	107.1		212.5	82.30	108.3
	152.5	131.80	107.1		214.0	97.87	108.3
	154.0	131.85	107.1		215.5	107.91	108.3
	155.5	131.89	107.1		217.0	113.88	108.3
	157.0	131.94	107.1		218.5	117.73	108.3
	158.5	131.97	107.2		220.0	120.41	108.3

Printing every 3 samples



Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	122.44	108.4		283.0	131.52	108.6
	223.0	123.59	108.4		284.5	131.53	108.6
	224.5	124.69	108.4		286.0	131.54	108.7
	226.0	125.44	108.4		287.5	131.59	108.7
	227.5	126.18	108.4		289.0	131.61	108.7
	229.0	126.76	108.4		290.5	131.63	108.7
	230.5	127.33	108.4		292.0	131.67	108.7
	232.0	127.66	108.4		293.5	131.69	108.7
	233.5	127.96	108.4		295.0	131.69	108.7
	235.0	128.23	108.4		296.5	131.70	108.7
	236.5	128.55	108.4		298.0	131.72	108.7
	238.0	128.92	108.4		299.5	131.74	108.8
	239.5	129.01	108.4		301.0	131.77	108.8
	241.0	129.22	108.4		302.5	131.80	108.8
	242.5	129.41	108.4		304.0	131.84	108.8
	244.0	129.89	108.4		305.5	131.87	108.8
	245.5	129.73	108.4		307.0	131.88	108.8
	247.0	129.86	108.4		308.5	131.90	108.8
	248.5	130.26	108.5		310.0	131.92	108.8
	250.0	130.34	108.5		311.5	131.93	108.8
	251.5	130.41	108.5		313.0	131.95	108.9
	253.0	130.48	108.5		314.5	131.97	108.9
	254.5	130.55	108.5		316.0	131.98	108.9
	256.0	130.65	108.5		317.5	131.98	108.9
	257.5	130.73	108.5		319.0	132.00	108.9
	259.0	130.80	108.5		320.5	131.99	108.9
	260.5	130.86	108.5		322.0	132.00	108.9
	262.0	130.93	108.5		323.5	132.02	108.9
	263.5	130.96	108.5		325.0	132.04	108.9
	265.0	131.02	108.5		326.5	132.05	109.0
	266.5	131.07	108.5		328.0	132.08	109.0
	268.0	131.13	108.5		329.5	132.10	109.0
	269.5	131.19	108.6		331.0	132.11	109.0
	271.0	131.23	108.6		332.5	132.12	109.0
	272.5	131.25	108.6		334.0	132.13	109.0
	274.0	131.29	108.6		335.5	132.13	109.0
	275.5	131.33	108.6		337.0	132.15	109.0
	277.0	131.37	108.6		338.5	132.17	109.1
	278.5	131.40	108.6		340.0	132.17	109.1
	280.0	131.44	108.6		341.5	132.18	109.1
	281.5	131.47	108.6		343.0	132.18	109.1

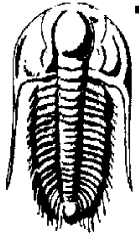
Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	132.16	109.1		406.0	381.79	83.0
	346.0	132.13	109.1		407.5	328.15	82.4
	347.5	1654.83	110.9		409.0	282.03	81.8
	349.0	1631.08	110.9		410.5	259.90	81.1
	350.5	1617.92	110.8		412.0	199.01	80.6
	352.0	1658.24	110.3		413.5	168.46	80.1
	353.5	1621.74	109.7		415.0	137.77	79.9
	355.0	1549.22	109.5		416.5	107.14	79.8
	356.5	1616.38	108.6		418.0	76.25	79.8
	358.0	1584.73	107.3		419.5	45.76	79.7
	359.5	1484.02	106.1		421.0	15.31	79.6
	361.0	1495.13	104.9		422.5	15.18	79.5
	362.5	1462.48	103.6		424.0	9.66	79.5
	364.0	1357.28	102.6		425.5	9.10	79.6
	365.5	1370.99	101.2		427.0	9.07	79.6
	367.0	1267.77	100.3		428.5	9.06	79.6
	368.5	1258.27	99.3		430.0	9.04	79.6
	370.0	1217.25	98.5		431.5	9.05	79.5
	371.5	1098.17	97.7		433.0	9.05	79.5
	373.0	1081.19	97.0		434.5	12.45	79.5
	374.5	999.68	96.3		436.0	12.38	79.5
	376.0	1047.96	95.8		437.5	12.35	79.5
	377.5	1028.23	95.6		439.0	12.37	79.5
	379.0	974.23	95.4		440.5	12.23	79.5
	380.5	936.74	95.2		442.0	8.38	79.5
	382.0	930.04	95.2		443.5	9.27	79.5
	383.5	923.73	95.2		445.0	9.25	79.5
	385.0	917.75	95.2		446.5	9.23	79.5
	386.5	912.55	95.2		448.0	9.24	79.5
	388.0	905.65	95.2		449.5	6.13	79.5
	389.5	826.93	95.1		451.0	-0.60	79.8
	391.0	812.90	95.1		452.5	-0.80	79.5
	392.5	745.77	95.0		454.0	-0.09	67.3
	394.0	719.99	94.2		455.5	-0.58	58.4
	395.5	671.24	92.3		457.0	-0.73	54.9
	397.0	628.11	90.7		458.5	-0.79	52.5
	398.5	596.05	89.1		460.0	-0.81	50.8
	400.0	535.23	87.7		461.5	-0.80	49.7
	401.5	504.10	86.2		463.0	-0.81	48.9
	403.0	429.80	86.1		464.5	-0.84	48.4
	404.5	412.43	83.9		466.0	-0.84	48.1

Printing every 3 samples

<b>Serial # 8520 Outside</b>				<b>Serial # 8653 Fluid</b>			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	467.5	-0.88	47.9				
	469.0	-0.90	47.6				
	470.5	-0.85	46.8				
	472.0	-0.76	46.7				
	473.5	-0.93	46.8				
	475.0	-0.85	47.9				
	476.5	-0.68	47.8				
	477.5	-0.82	48.1				

Printing every 3 samples



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

**26/16S/16W-Rush**

Job Ticket: 42883

**DST#: 2**

ATTN: Neil

Test Start: 2011.05.12 @ 00:02:27

Serial # 8653 Fluid				Serial # 8653 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.35	67.4		1.6	-1.25	67.2
	0.1	-1.42	67.5		1.7	-1.29	67.1
	0.1	-1.38	67.6		1.8	-1.29	67.0
	0.2	-1.37	67.6		1.8	-1.32	66.8
	0.2	-1.35	67.7		1.9	-1.31	66.7
	0.3	-1.37	67.8		1.9	-1.30	66.5
	0.3	-1.38	67.8		2.0	-1.29	66.4
	0.3	-1.38	67.9		12.0	-1.31	62.1
	0.4	-1.40	68.0		42.0	0.44	76.7
	0.4	-1.42	68.0		62.5	1.29	90.7
	0.5	-1.41	68.1		64.0	1.35	91.3
	0.6	-1.40	68.2		65.5	1.39	91.9
	0.6	-1.39	68.2		67.0	1.47	92.5
	0.7	-1.39	68.3		68.5	1.57	93.1
	0.7	-1.38	68.2		70.0	1.63	93.7
	0.8	-1.37	68.3		71.5	1.70	94.2
	0.8	-1.38	68.3		73.0	1.74	94.7
	0.9	-1.38	68.3		74.5	1.78	95.3
	0.9	-1.36	68.2		76.0	1.83	95.8
	0.9	-1.35	68.2		77.5	1.88	96.3
	1.0	-1.34	68.2		79.0	1.93	96.9
	1.1	-1.32	68.2		80.5	1.97	97.4
	1.1	-1.31	68.2		82.0	2.00	97.8
	1.1	-1.29	68.1		83.5	2.02	98.4
	1.2	-1.29	68.1		85.0	2.06	98.8
	1.3	-1.29	68.0		86.5	2.09	99.3
	1.3	-1.28	67.9		88.0	2.12	99.7
	1.4	-1.27	67.9		89.5	2.15	100.1
	1.4	-1.25	67.8		91.0	2.24	100.4
	1.5	-1.23	67.7		92.5	2.27	100.8
	1.5	-1.22	67.6		94.0	2.32	101.1
	1.6	-1.23	67.5		95.5	2.41	101.4
	1.6	-1.25	67.4		97.0	2.74	102.6

Printing every 3 samples

Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	4.00	104.1		160.0	5.36	105.2
	100.0	4.35	104.3		161.5	5.35	105.2
	101.5	4.79	104.4		163.0	5.36	105.2
	103.0	5.42	104.5		164.5	5.34	105.2
	104.5	5.45	104.6		166.0	5.36	105.2
	106.0	5.47	104.6		167.5	6.67	105.2
	107.5	5.45	104.7		169.0	7.57	105.6
	109.0	5.44	104.7		170.5	7.97	105.8
	110.5	5.42	104.7		172.0	8.28	105.8
	112.0	5.41	104.7		173.5	8.18	105.9
	113.5	5.38	104.7		175.0	8.30	105.9
	115.0	5.36	104.7		176.5	8.56	106.0
	116.5	5.34	104.7		178.0	8.72	106.0
	118.0	5.34	104.7		179.5	8.93	106.0
	119.5	5.33	104.7		181.0	9.12	106.1
	121.0	5.33	104.7		182.5	9.65	106.1
	122.5	5.33	104.7		184.0	9.36	106.1
	124.0	5.32	104.7		185.5	9.54	106.1
	125.5	5.32	104.7		187.0	9.78	106.1
	127.0	5.30	104.7		188.5	9.97	106.2
	128.5	5.31	104.7		190.0	10.19	106.2
	130.0	5.30	104.7		191.5	10.50	106.2
	131.5	5.31	104.8		193.0	10.70	106.2
	133.0	5.31	104.8		194.5	10.87	106.2
	134.5	5.31	104.8		196.0	10.94	106.3
	136.0	5.30	104.8		197.5	11.21	106.3
	137.5	5.31	104.8		199.0	11.65	106.3
	139.0	5.30	104.9		200.5	11.77	106.3
	140.5	5.31	104.9		202.0	11.87	106.4
	142.0	5.30	104.9		203.5	11.93	106.4
	143.5	5.29	104.9		205.0	11.95	106.4
	145.0	5.29	104.9		206.5	11.95	106.4
	146.5	5.29	105.0		208.0	11.93	106.4
	148.0	5.30	105.0		209.5	11.90	106.4
	149.5	5.31	105.0		211.0	11.87	106.4
	151.0	5.32	105.0		212.5	11.83	106.4
	152.5	5.32	105.0		214.0	11.79	106.4
	154.0	5.32	105.1		215.5	11.78	106.4
	155.5	5.32	105.1		217.0	11.76	106.4
	157.0	5.34	105.1		218.5	11.75	106.4
	158.5	5.35	105.1		220.0	11.73	106.4

Printing every 3 samples

Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	11.72	106.4		283.0	11.75	106.9
	223.0	11.71	106.4		284.5	11.77	106.9
	224.5	11.69	106.4		286.0	11.77	106.9
	226.0	11.68	106.4		287.5	11.78	107.0
	227.5	11.66	106.4		289.0	11.79	107.0
	229.0	11.65	106.5		290.5	11.78	107.0
	230.5	11.64	106.5		292.0	11.79	107.0
	232.0	11.64	106.5		293.5	11.79	107.0
	233.5	11.65	106.5		295.0	11.79	107.0
	235.0	11.65	106.5		296.5	11.80	107.1
	236.5	11.66	106.5		298.0	11.82	107.1
	238.0	11.65	106.5		299.5	11.81	107.1
	239.5	11.65	106.5		301.0	11.82	107.1
	241.0	11.64	106.5		302.5	11.83	107.1
	242.5	11.64	106.5		304.0	11.83	107.1
	244.0	11.64	106.5		305.5	11.83	107.2
	245.5	11.64	106.6		307.0	11.85	107.2
	247.0	11.63	106.6		308.5	11.86	107.2
	248.5	11.63	106.6		310.0	11.86	107.2
	250.0	11.65	106.6		311.5	11.88	107.2
	251.5	11.65	106.6		313.0	11.89	107.2
	253.0	11.66	106.6		314.5	11.88	107.2
	254.5	11.66	106.6		316.0	11.88	107.3
	256.0	11.66	106.6		317.5	11.89	107.3
	257.5	11.67	106.7		319.0	11.91	107.3
	259.0	11.67	106.7		320.5	11.94	107.3
	260.5	11.66	106.7		322.0	11.98	107.3
	262.0	11.67	106.7		323.5	12.00	107.3
	263.5	11.66	106.7		325.0	12.02	107.4
	265.0	11.67	106.7		326.5	12.02	107.4
	266.5	11.67	106.7		328.0	12.04	107.4
	268.0	11.68	106.8		329.5	12.05	107.4
	269.5	11.69	106.8		331.0	12.07	107.4
	271.0	11.69	106.8		332.5	12.09	107.4
	272.5	11.70	106.8		334.0	12.10	107.4
	274.0	11.70	106.8		335.5	12.07	107.5
	275.5	11.71	106.8		337.0	12.06	107.5
	277.0	11.71	106.9		338.5	12.06	107.5
	278.5	11.72	106.9		340.0	12.06	107.5
	280.0	11.72	106.9		341.5	12.08	107.5
	281.5	11.75	106.9		343.0	12.11	107.5

Printing every 3 samples

Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	12.12	107.5		406.0	10.47	93.9
	346.0	12.14	107.6		407.5	10.38	93.2
	347.5	12.14	107.6		409.0	10.33	92.7
	349.0	12.16	107.6		410.5	10.60	91.8
	350.5	12.87	107.6		412.0	10.23	90.9
	352.0	12.80	107.6		413.5	10.20	90.2
	353.5	12.71	107.6		415.0	10.20	89.3
	355.0	12.64	107.6		416.5	10.18	89.0
	356.5	12.57	107.6		418.0	10.17	88.8
	358.0	12.52	107.7		419.5	1.57	88.5
	359.5	12.43	107.7		421.0	0.69	84.4
	361.0	12.35	107.7		422.5	-1.29	65.5
	362.5	12.28	107.6		424.0	-2.25	62.8
	364.0	12.21	107.6		425.5	-2.42	60.2
	365.5	12.13	107.5		427.0	-2.47	58.0
	367.0	12.09	107.4		428.5	-2.44	56.1
	368.5	12.01	107.2		430.0	-2.41	54.5
	370.0	11.91	107.1		431.5	-2.36	53.2
	371.5	11.83	106.8		433.0	-2.35	52.1
	373.0	11.74	106.6		434.5	-2.35	51.2
	374.5	11.67	106.3		436.0	-2.35	50.4
	376.0	11.58	105.9		437.5	-2.35	49.8
	377.5	11.49	105.6		439.0	-2.33	49.2
	379.0	11.41	105.3		440.5	-2.31	48.8
	380.5	11.41	104.9		442.0	-2.29	48.4
	382.0	11.39	104.6		443.5	-2.28	48.1
	383.5	11.44	104.3		445.0	-2.25	47.9
	385.0	11.48	104.0		446.5	-2.23	47.6
	386.5	11.46	103.6		448.0	-2.21	47.4
	388.0	11.43	103.3		449.5	-2.19	47.3
	389.5	11.46	102.7		451.0	-2.15	47.2
	391.0	11.40	101.9		452.5	-2.14	47.0
	392.5	11.41	101.2		454.0	-2.12	46.9
	394.0	11.48	100.5		455.5	-2.10	46.8
	395.5	11.81	100.0		457.0	-2.09	46.7
	397.0	11.24	99.2		458.5	-2.08	46.6
	398.5	11.43	98.7		460.0	-2.05	46.5
	400.0	10.73	97.9		461.5	-2.03	46.5
	401.5	10.65	96.9		463.0	-2.01	46.5
	403.0	10.60	95.6		464.5	-1.95	46.4
	404.5	10.55	94.6		466.0	-1.92	46.4

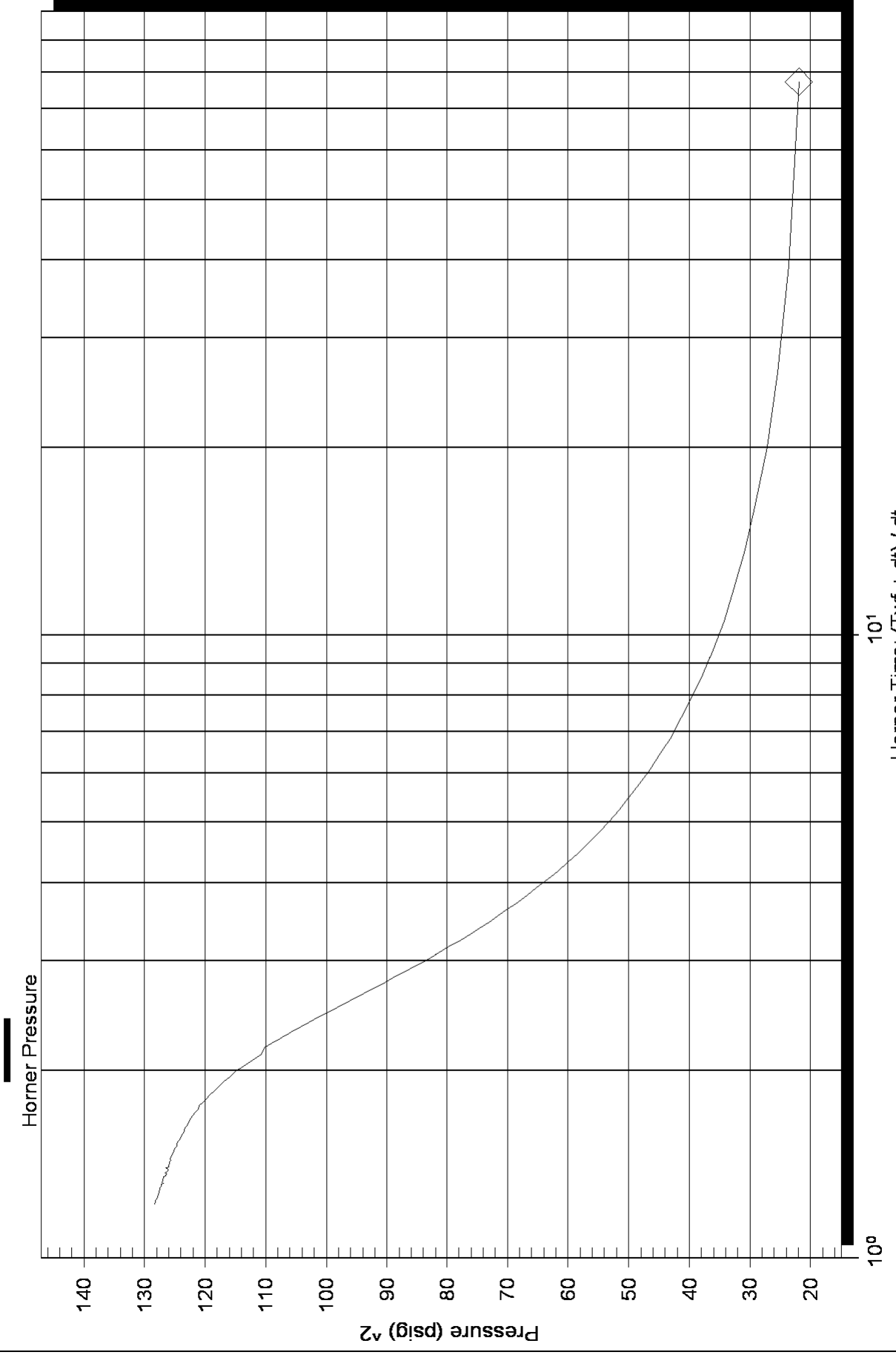
Printing every 3 samples

<b>Serial # 8653</b>		<b>Fluid</b>	
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	467.5	-2.01	46.4
	469.0	-1.98	46.3
	470.5	-1.74	47.2
	472.0	-1.93	46.3
	473.5	-2.34	49.2
	475.0	-2.49	48.8

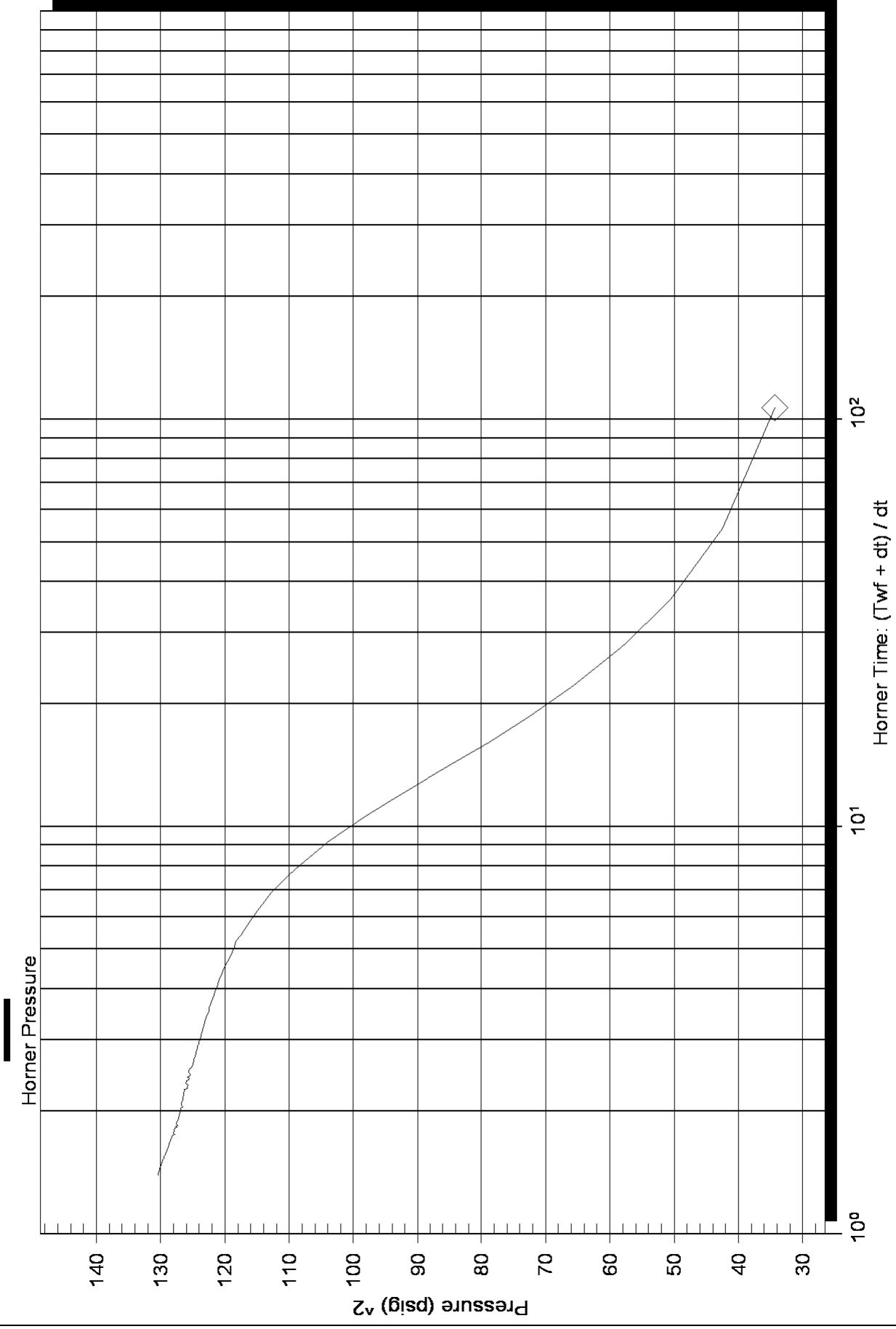
Printing every 3 samples



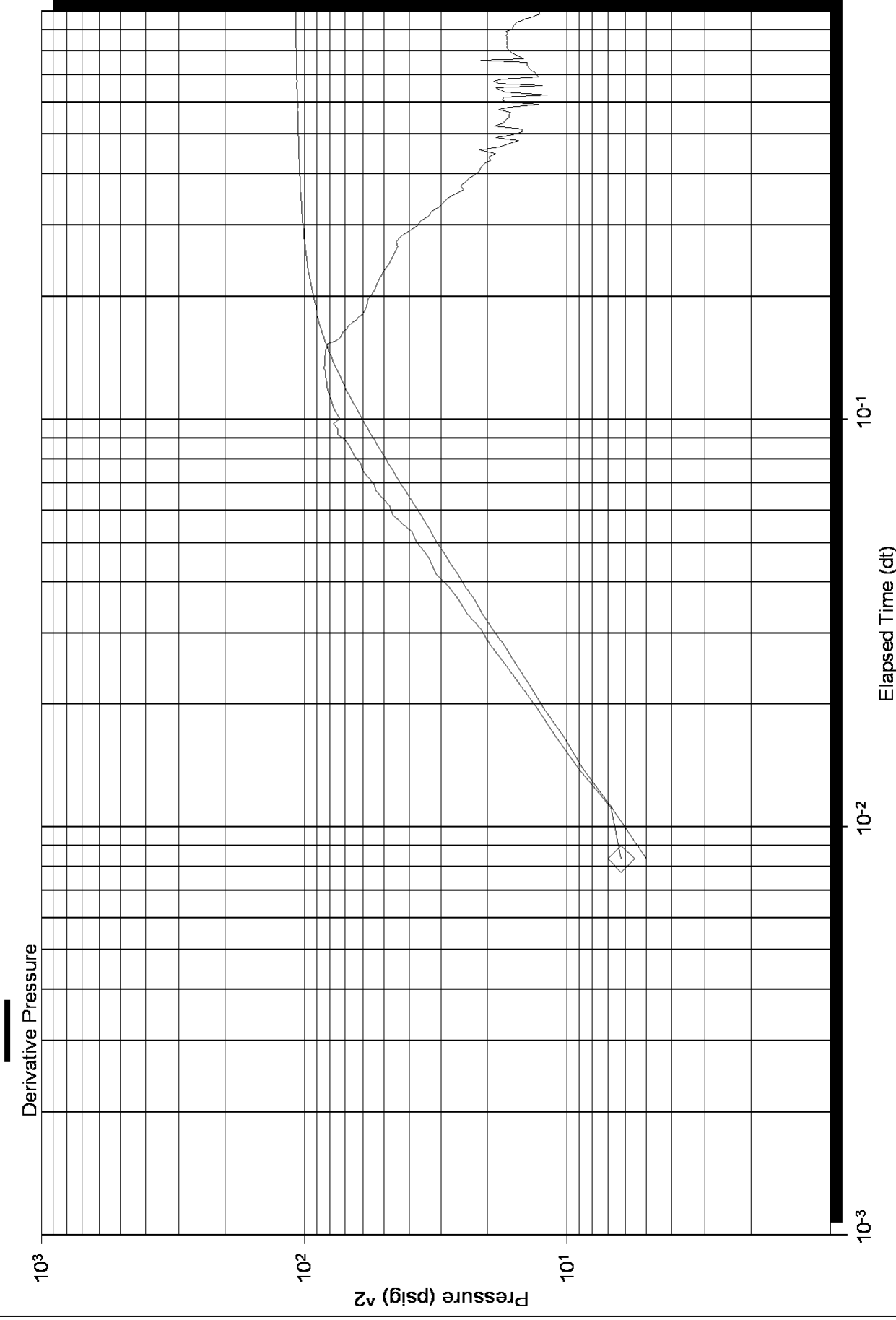
### Homer Plot



### Homer Plot



# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Derivative

