



## 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 @ 00:15:02

End Date: 2011.05.12 @ 07:37:02

Job Ticket #: 42822                      DST #: 1

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: 42822

**DST#: 1**

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

## GENERAL INFORMATION:

Formation: **LKC 'D&E'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:17:32

Time Test Ended: 07:37:02

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

**Interval: 3303.00 ft (KB) To 3329.00 ft (KB) (TVD)**

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3329.00 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: 27.21 psig @ 3306.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.12

End Date: 2011.05.12

Last Calib.: 2011.05.12

Start Time: 00:25:02

End Time: 07:37:02

Time On Btm: 2011.05.12 @ 02:16:32

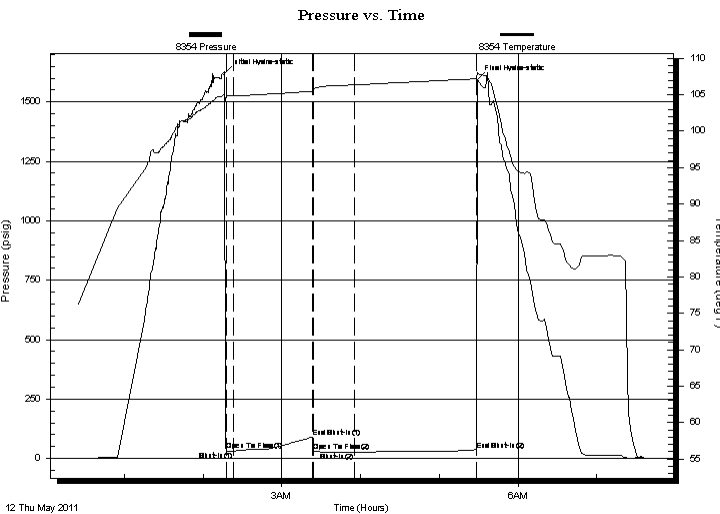
Time Off Btm: 2011.05.12 @ 05:29:02

**TEST COMMENT:** IF-Weak surface blow .

ISI-No Return.

FF-Few bubbles. Then died.

FSI-No Return. Time Intervals- 5-60-30-90



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.95	105.08	Initial Hydro-static
1	33.62	104.84	Open To Flow (1)
7	30.59	104.84	Shut-In(1)
67	90.17	105.47	End Shut-In(1)
68	28.49	105.77	Open To Flow (2)
99	27.21	106.36	Shut-In(2)
192	36.76	107.19	End Shut-In(2)
193	1593.37	108.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	75%Mud/25%Oil	0.04

## Gas Rates

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



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

Job Ticket: 42822

**DST#: 1**

ATTN: Neil

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## GENERAL INFORMATION:

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Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:17:32

Time Test Ended: 07:37:02

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

**Interval: 3303.00 ft (KB) To 3329.00 ft (KB) (TVD)**

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3329.00 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@RunDepth: psig @ 3306.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.12 End Date: 2011.05.12

Last Calib.: 2011.05.12

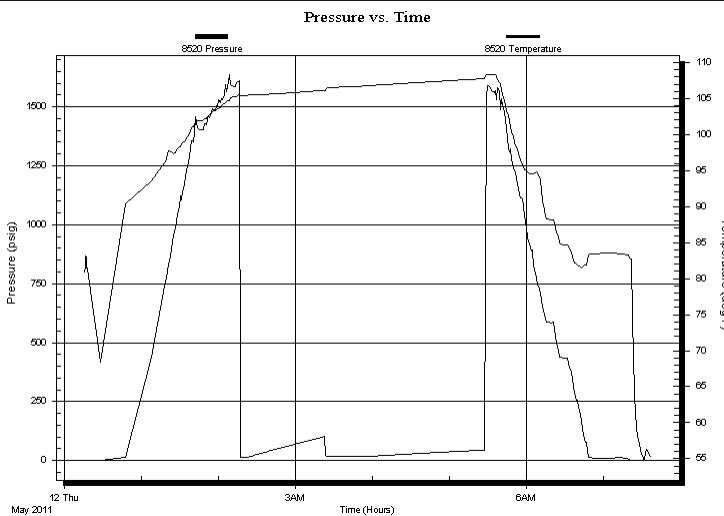
Start Time: 00:16:01 End Time: 07:37:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Weak surface blow.  
IS-No Return.  
FF-Few bubbles. Then died.  
FS-No Return. Time Intervals- 5-60-30-90

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	75%Mud/25%Oil	0.04

## Gas Rates

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





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# 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: 42822

**DST#: 1**

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

## Tool Information

Drill Pipe:	Length: 3286.00 ft	Diameter: 3.80 inches	Volume: 46.09 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: 2000.00 lb
			<u>Total Volume: 46.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3303.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	56.00 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	3273.00	
Change Over Sub	1.00			3274.00	
Shut In Tool	5.00			3279.00	
Sampler	2.00			3281.00	
Hydraulic tool	5.00			3286.00	
Jars	5.00			3291.00	
Safety Joint	3.00			3294.00	
Packer	5.00			3299.00	30.00 Bottom Of Top Packer
Packer	4.00			3303.00	
Stubb	1.00			3304.00	
Perforations	2.00			3306.00	
Recorder	0.00	8354	Inside	3306.00	
Recorder	0.00	8520	Outside	3306.00	
Perforations	20.00			3326.00	
Bullnose	3.00			3329.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

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

Job Ticket: 42822

**DST#: 1**

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

## 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: 44.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 4500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	75%Mud/25%Oil	0.042

Total Length: 3.00 ft      Total Volume: 0.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler-1500ML-Mud/500ML-Oil Pressure-25#



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# DRILL STEM TEST REPORT

**GAS RATES**

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

1515 Wynkoop St. Ste 700  
Denver, CO 80202

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

Job Ticket: 42822

**DST#: 1**

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

## Gas Rates Information

Temperature: 59 deg C

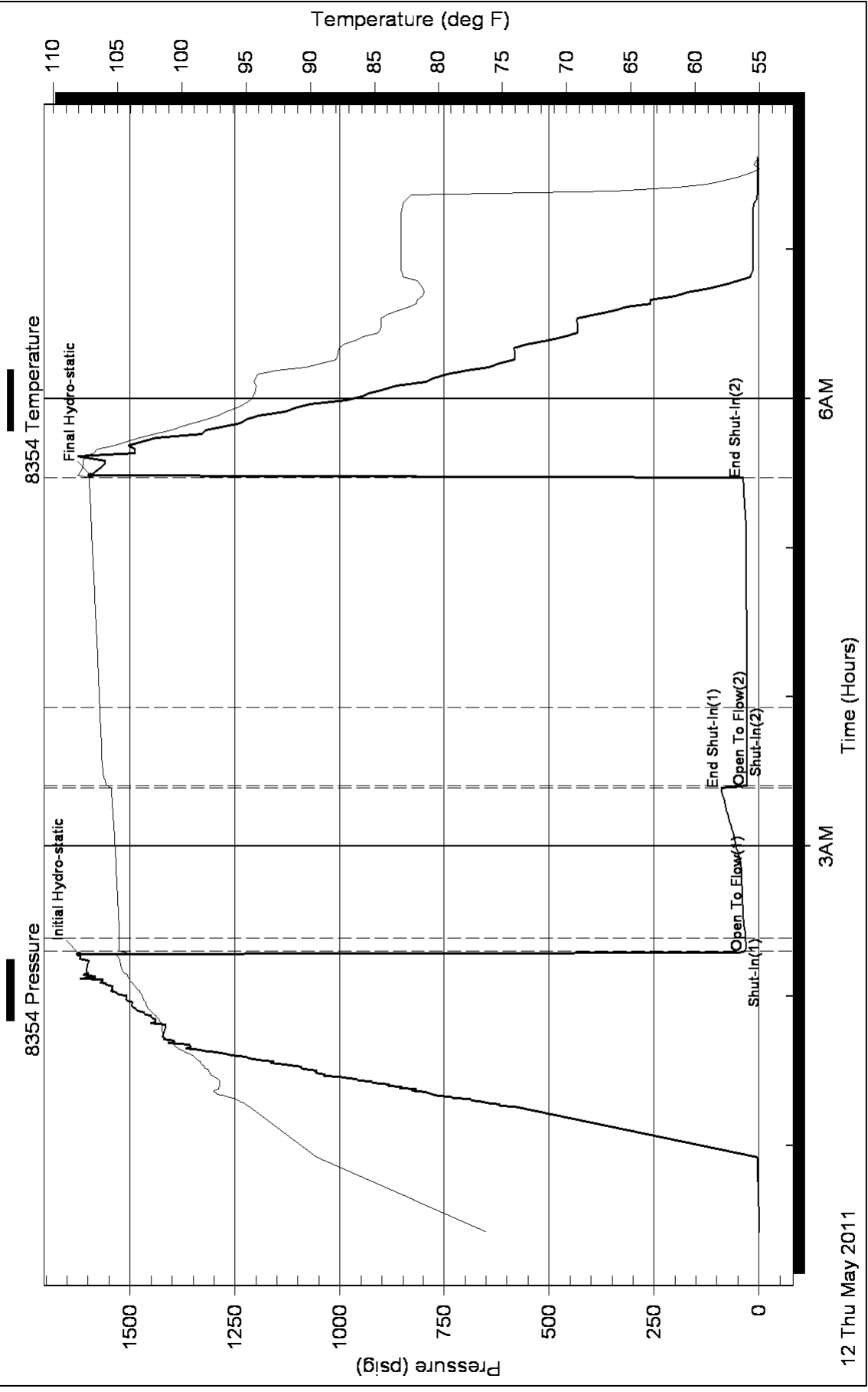
Relative Density: 0.65

Z Factor: 0.8

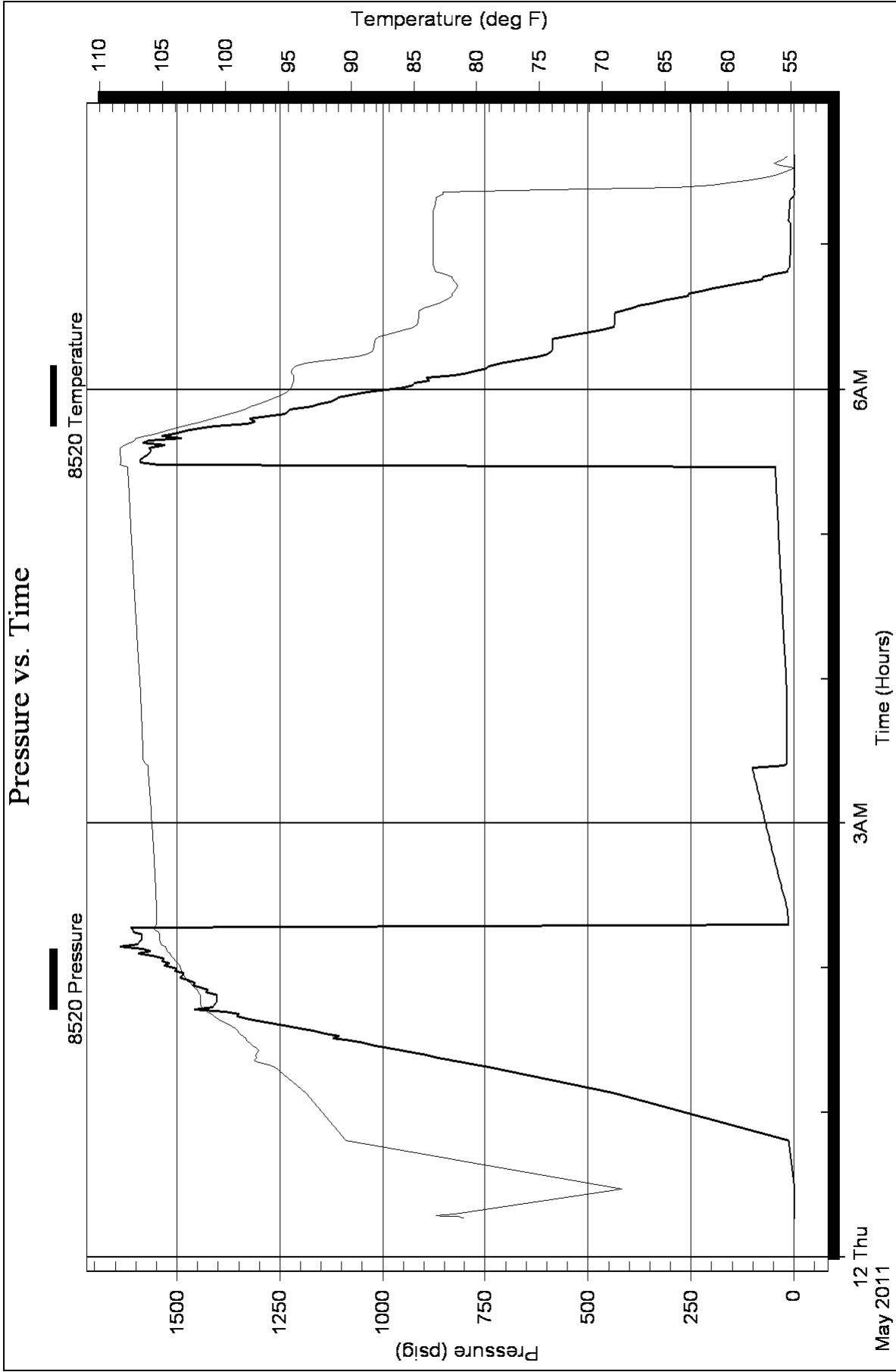
Gas Rates Table

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

### Pressure vs. Time







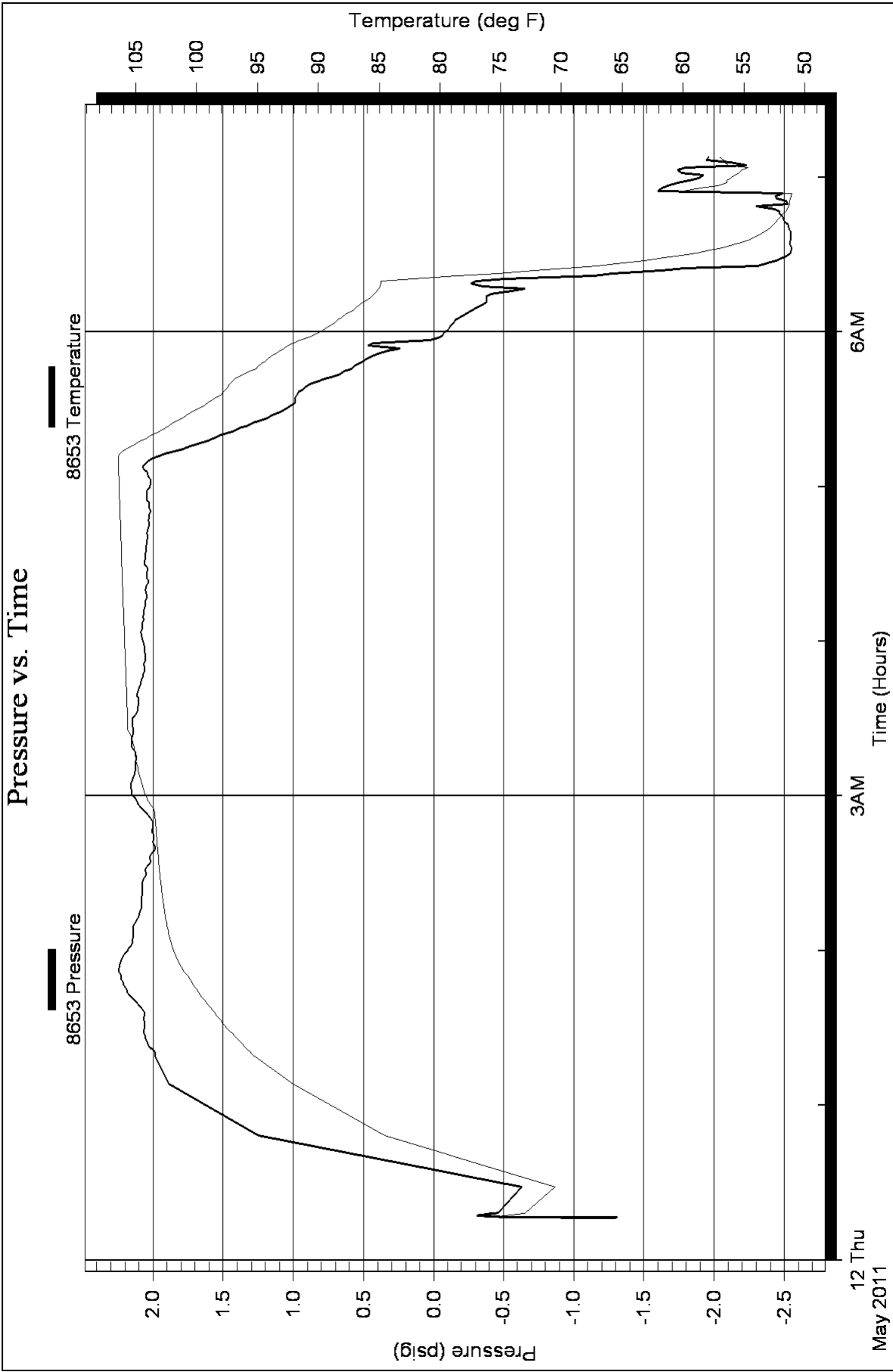
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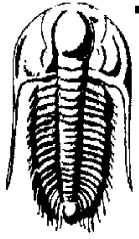
Fluid

Samuel Gary Jr. & Associates Inc.

26/16S/16W-Rush

DST Test Number: 1





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## DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. & Associates Inc.

**Maier 1-26**

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Denver, CO 80202

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

Job Ticket: 42822

**DST#: 1**

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.18	76.3		65.7	1092.50	98.2
	30.0	3.97	89.5		66.2	1091.93	98.2
	50.2	583.26	94.8		66.7	1119.67	98.3
	50.7	617.48	94.9		67.2	1132.75	98.4
	51.2	617.43	95.0		67.7	1164.82	98.6
	51.7	651.54	95.1		68.2	1157.48	98.6
	52.2	654.00	95.5		68.7	1179.20	98.7
	52.7	685.02	95.6		69.2	1196.69	98.8
	53.2	686.36	95.8		69.7	1215.64	98.9
	53.7	726.81	96.0		70.2	1225.78	99.0
	54.2	735.84	96.4		70.7	1258.95	99.1
	54.7	763.62	96.6		71.2	1265.17	99.3
	55.2	777.26	97.2		71.7	1283.65	99.5
	55.7	789.26	97.3		72.2	1294.07	99.7
	56.2	792.51	97.5		72.7	1328.81	99.9
	56.7	828.12	97.5		73.2	1330.57	100.1
	57.2	816.23	97.1		73.7	1367.53	100.3
	57.7	858.30	97.1		74.2	1355.52	100.5
	58.2	853.37	97.0		74.7	1358.62	100.6
	58.7	885.83	97.0		75.2	1358.32	100.6
	59.2	882.74	97.1		75.7	1409.63	100.7
	59.7	921.64	97.0		76.2	1392.27	100.9
	60.2	924.59	97.1		76.7	1394.15	101.0
	60.7	955.90	97.1		77.2	1419.93	101.1
	61.2	961.31	97.2		77.7	1419.16	101.3
	61.7	978.28	97.2		78.2	1421.91	101.4
	62.2	1000.71	97.5		78.7	1421.80	101.4
	62.7	1039.21	97.5		79.2	1420.97	101.5
	63.2	1035.81	97.8		79.7	1420.03	101.5
	63.7	1057.33	97.8		80.2	1419.02	101.5
	64.2	1056.49	97.9		80.7	1417.99	101.5
	64.7	1055.49	97.9		81.2	1417.04	101.5
	65.2	1083.96	98.0		81.7	1416.11	101.5

Printing every 3 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	82.2	1415.37	101.5		102.7	1582.05	104.2
	82.7	1414.63	101.5		103.2	1611.59	104.2
	83.2	1413.85	101.5		103.7	1599.09	104.4
	83.7	1451.95	101.5		104.2	1603.35	104.5
	84.2	1439.21	101.6		104.7	1603.67	104.6
	84.7	1439.61	101.7		105.2	1603.55	104.6
	85.2	1438.73	101.7		105.7	1602.80	104.7
	85.7	1446.35	101.8		106.2	1602.19	104.7
	86.2	1449.91	102.0		106.7	1601.47	104.7
	86.7	1450.03	102.0		107.2	1600.53	104.8
	87.2	1463.77	102.1		107.7	1600.03	104.8
	87.7	1466.78	102.2		108.2	1599.20	104.8
	88.2	1466.76	102.3		108.7	1598.15	104.8
	88.7	1482.63	102.4		109.2	1611.09	104.8
	89.2	1485.60	102.5		109.7	1621.15	104.8
	89.7	1485.42	102.6		110.5	1616.69	105.0
	90.2	1494.03	102.7		111.0	1616.87	105.0
	90.7	1496.17	102.7	Initial Hydro-static	111.5	1620.95	105.1
	91.2	1495.95	102.8		112.0	45.65	104.2
	91.7	1494.93	102.8	Open To Flow (1)	112.5	33.62	104.8
	92.2	1494.09	102.8		113.0	31.25	104.9
	92.7	1505.99	102.9		114.5	30.43	104.8
	93.2	1509.38	103.0		116.0	30.06	104.8
	93.7	1509.35	103.0		117.0	30.57	104.8
	94.2	1508.89	103.0		117.5	30.63	104.8
	94.7	1507.86	103.0	Shut-In(1)	118.0	30.59	104.8
	95.2	1526.32	103.1		118.5	30.58	104.8
	95.7	1531.35	103.2		119.0	31.51	104.8
	96.2	1531.13	103.2		119.5	31.97	104.8
	96.7	1546.35	103.3		121.0	33.26	104.9
	97.2	1541.07	103.4		122.5	34.38	104.9
	97.7	1542.37	103.5		124.0	35.14	104.9
	98.2	1542.40	103.5		125.5	35.94	104.9
	98.7	1541.33	103.6		127.0	36.55	104.9
	99.2	1557.71	103.7		128.5	37.00	104.9
	99.7	1557.72	103.8		130.0	37.59	104.9
	100.2	1572.64	103.8		131.5	38.05	105.0
	100.7	1564.07	104.0		133.0	38.55	105.0
	101.2	1564.48	104.0		134.5	38.90	105.0
	101.7	1619.94	104.1		136.0	39.02	105.0
	102.2	1581.85	104.1		137.5	39.35	105.0

Printing every 3 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	139.0	39.65	105.0		194.5	27.28	106.2
	140.5	39.89	105.0		196.0	27.20	106.3
	142.0	40.07	105.1		197.5	27.12	106.3
	143.5	40.45	105.1		199.0	27.07	106.3
	145.0	40.73	105.1		200.5	27.04	106.3
	146.5	41.44	105.1		202.0	26.98	106.3
	148.0	42.57	105.1		203.5	26.98	106.3
	149.5	45.50	105.1		205.0	26.98	106.3
	151.0	47.80	105.1		206.5	27.00	106.3
	152.5	50.13	105.2		208.0	27.06	106.3
	154.0	52.93	105.2		209.5	27.14	106.4
	155.5	55.09	105.2		210.0	27.17	106.4
	157.0	57.25	105.2	Shut-In(2)	210.5	27.21	106.4
	158.5	59.38	105.2		211.0	27.24	106.4
	160.0	61.69	105.2		211.5	27.27	106.4
	161.5	64.07	105.3		212.0	27.30	106.4
	163.0	66.65	105.3		213.5	27.39	106.4
	164.5	68.87	105.3		215.0	27.48	106.4
	166.0	71.31	105.3		216.5	27.56	106.4
	167.5	73.62	105.3		218.0	27.65	106.4
	169.0	76.05	105.4		219.5	27.73	106.4
	170.5	78.32	105.4		221.0	27.80	106.4
	172.0	80.66	105.4		222.5	27.89	106.5
	173.5	82.94	105.4		224.0	27.94	106.5
	175.0	85.42	105.4		225.5	28.01	106.5
	176.5	87.70	105.5		227.0	28.07	106.5
	177.0	88.49	105.5		228.5	28.13	106.5
	177.5	89.23	105.5		230.0	28.18	106.5
End Shut-In(1)	178.0	90.17	105.5		231.5	28.23	106.5
	178.5	33.46	105.5		233.0	28.27	106.6
Open To Flow (2)	179.0	28.49	105.8		234.5	28.31	106.6
	179.5	28.60	105.8		236.0	28.36	106.6
	181.0	28.38	106.0		237.5	28.41	106.6
	182.5	28.55	106.0		239.0	28.46	106.6
	184.0	27.95	106.1		240.5	28.50	106.6
	185.5	27.88	106.1		242.0	28.55	106.6
	187.0	27.79	106.2		243.5	28.60	106.7
	188.5	27.66	106.2		245.0	28.64	106.7
	190.0	27.95	106.2		246.5	28.70	106.7
	191.5	27.42	106.2		248.0	28.76	106.7
	193.0	27.34	106.2		249.5	28.81	106.7

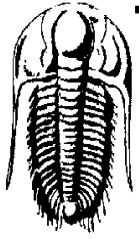
Printing every 3 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	251.0	28.87	106.7		307.5	1566.47	107.7
	252.5	28.93	106.7		309.0	1558.47	107.7
	254.0	28.97	106.7		310.5	1561.36	107.7
	255.5	29.03	106.8		312.0	1615.98	107.0
	257.0	29.09	106.8		313.5	1564.80	106.7
	258.5	29.16	106.8		315.0	1533.27	105.9
	260.0	29.22	106.8		316.5	1500.98	105.0
	261.5	29.27	106.8		318.0	1416.53	104.1
	263.0	29.31	106.8		319.5	1410.81	102.8
	264.5	29.37	106.8		321.0	1363.74	101.7
	266.0	29.41	106.9		322.5	1317.29	100.8
	267.5	29.45	106.9		324.0	1270.04	99.7
	269.0	29.50	106.9		325.5	1228.72	98.6
	270.5	29.57	106.9		327.0	1225.20	97.8
	272.0	29.63	106.9		328.5	1150.04	97.1
	273.5	29.70	106.9		330.0	1135.43	96.2
	275.0	29.78	106.9		331.5	1097.62	95.6
	276.5	29.86	107.0		333.0	1004.44	94.9
	278.0	29.96	107.0		334.5	991.20	94.6
	279.5	30.10	107.0		336.0	912.73	94.4
	281.0	29.94	107.0		337.5	925.16	94.3
	282.5	29.95	107.0		339.0	893.56	94.2
	284.0	30.27	107.0		340.5	825.87	94.2
	285.5	30.41	107.0		342.0	805.22	94.4
	287.0	31.24	107.1		343.5	749.58	94.2
	288.5	31.85	107.1		345.0	711.32	93.6
	290.0	32.27	107.1		346.5	676.59	91.5
	291.5	32.73	107.1		348.0	624.03	90.1
	293.0	33.45	107.1		349.5	583.86	88.4
	294.5	33.93	107.1		351.0	581.29	87.9
	296.0	34.35	107.1		352.5	580.33	87.8
	297.5	34.90	107.1		354.0	580.41	87.8
	299.0	35.44	107.2		355.5	573.23	87.8
	300.5	35.93	107.2		357.0	528.71	87.3
	302.0	36.61	107.2		358.5	499.37	86.4
	302.5	36.69	107.2		360.0	455.73	85.7
End Shut-In(2)	303.0	36.76	107.2		361.5	431.25	84.7
	303.5	1527.66	107.9		363.0	430.86	84.6
Final Hydro-static	304.0	1593.37	108.1		364.5	431.40	84.5
	304.5	1582.44	107.9		366.0	432.15	84.5
	306.0	1578.85	107.8		367.5	411.91	84.5

Printing every 3 samples

Serial # 8354 Inside				Serial # 8354 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	369.0	375.73	83.6		430.5	3.42	55.2
	370.5	343.71	82.8		432.0	3.39	55.0
	372.0	286.97	82.0				
	373.5	258.82	81.7				
	375.0	228.77	81.5				
	376.5	199.28	81.2				
	378.0	154.04	81.1				
	379.5	110.75	81.3				
	381.0	80.34	81.5				
	382.5	49.99	82.1				
	384.0	19.88	82.8				
	385.5	16.79	82.9				
	387.0	13.77	82.9				
	388.5	13.71	82.9				
	390.0	13.75	82.9				
	391.5	13.01	82.9				
	393.0	12.92	82.9				
	394.5	12.88	82.9				
	396.0	12.81	82.9				
	397.5	12.71	82.9				
	399.0	12.67	82.9				
	400.5	12.77	82.9				
	402.0	12.62	82.9				
	403.5	12.58	82.9				
	405.0	12.52	83.0				
	406.5	13.27	82.9				
	408.0	13.68	82.9				
	409.5	13.67	82.9				
	411.0	13.89	82.9				
	412.5	13.38	82.8				
	414.0	10.63	82.7				
	415.5	4.07	82.3				
	417.0	3.95	81.4				
	418.5	2.53	64.1				
	420.0	2.61	60.5				
	421.5	2.84	58.6				
	423.0	3.04	57.3				
	424.5	3.17	56.4				
	426.0	3.07	55.4				
	427.5	3.14	54.8				
	429.0	3.29	55.4				

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: 42822

**DST#: 1**

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.45	81.0		1.6	-1.25	81.9
	0.1	-1.50	81.0		1.7	-1.23	81.8
	0.1	-1.45	81.1		1.8	-1.24	81.7
	0.2	-1.41	81.1		1.8	-1.24	81.6
	0.2	-1.40	81.1		1.9	-1.24	81.5
	0.3	-1.36	81.2		1.9	-1.25	81.4
	0.3	-1.36	81.2		2.0	-1.29	81.3
	0.3	-1.34	81.2		12.0	-1.27	68.5
	0.4	-1.31	81.2		42.0	135.87	89.6
	0.4	-1.31	81.1		62.5	741.91	96.1
	0.5	-1.34	81.1		64.0	804.08	96.7
	0.6	-1.38	81.2		65.5	833.74	97.7
	0.6	-1.40	81.3		67.0	916.92	97.5
	0.6	-1.42	81.7		68.5	925.47	97.5
	0.7	-1.43	82.1		70.0	966.64	97.3
	0.8	-1.44	82.5		71.5	1017.26	97.8
	0.8	-1.44	82.9		73.0	1096.61	98.1
	0.9	-1.45	83.1		74.5	1120.98	98.4
	0.9	-1.44	83.2		76.0	1188.35	98.7
	0.9	-1.44	83.2		77.5	1170.71	99.0
	1.0	-1.42	83.2		79.0	1245.90	99.3
	1.0	-1.40	83.1		80.5	1262.84	99.8
	1.1	-1.39	83.0		82.0	1339.11	100.3
	1.1	-1.38	82.9		83.5	1354.47	100.9
	1.2	-1.36	82.8		85.0	1456.37	101.2
	1.3	-1.35	82.7		86.5	1457.15	101.6
	1.3	-1.33	82.6		88.0	1410.44	101.9
	1.4	-1.33	82.5		89.5	1404.99	102.0
	1.4	-1.32	82.4		91.0	1402.68	102.0
	1.5	-1.31	82.3		92.5	1402.12	102.0
	1.5	-1.30	82.2		94.0	1427.02	102.2
	1.5	-1.27	82.1		95.5	1443.87	102.5
	1.6	-1.26	82.0		97.0	1458.68	102.7

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	1474.24	103.0		160.0	63.18	105.8
	100.0	1490.56	103.2		161.5	65.74	105.8
	101.5	1483.26	103.3		163.0	67.54	105.8
	103.0	1503.19	103.5		164.5	69.59	105.9
	104.5	1531.46	103.6		166.0	71.49	105.9
	106.0	1591.80	103.9		167.5	73.56	105.9
	107.5	1531.87	104.1		169.0	75.80	105.9
	109.0	1548.42	104.3		170.5	77.95	105.9
	110.5	1564.06	104.6		172.0	79.93	106.0
	112.0	1579.61	104.7		173.5	82.12	106.0
	113.5	1595.20	105.1		175.0	84.27	106.0
	115.0	1587.72	105.2		176.5	86.38	106.0
	116.5	1585.37	105.2		178.0	88.60	106.0
	118.0	1584.11	105.3		179.5	90.77	106.1
	119.5	1607.58	105.6		181.0	93.06	106.1
	121.0	14.10	104.7		182.5	95.12	106.1
	122.5	13.45	105.5		184.0	97.50	106.1
	124.0	13.51	105.5		185.5	99.52	106.1
	125.5	14.40	105.5		187.0	101.92	106.2
	127.0	14.44	105.5		188.5	16.15	106.4
	128.5	16.20	105.5		190.0	16.26	106.5
	130.0	18.67	105.5		191.5	16.13	106.6
	131.5	21.21	105.5		193.0	16.19	106.6
	133.0	23.57	105.5		194.5	16.24	106.6
	134.5	26.00	105.5		196.0	16.24	106.6
	136.0	28.30	105.5		197.5	16.23	106.6
	137.5	30.51	105.5		199.0	16.23	106.6
	139.0	32.84	105.6		200.5	16.22	106.6
	140.5	35.14	105.6		202.0	16.22	106.6
	142.0	37.24	105.6		203.5	16.21	106.6
	143.5	39.64	105.6		205.0	16.21	106.6
	145.0	41.81	105.6		206.5	16.20	106.6
	146.5	44.04	105.6		208.0	16.18	106.7
	148.0	46.14	105.7		209.5	16.17	106.7
	149.5	48.30	105.7		211.0	16.16	106.7
	151.0	50.44	105.7		212.5	16.20	106.7
	152.5	52.66	105.7		214.0	16.40	106.7
	154.0	54.75	105.7		215.5	16.18	106.7
	155.5	56.85	105.7		217.0	16.15	106.8
	157.0	58.92	105.8		218.5	16.39	106.8
	158.5	61.21	105.8		220.0	17.07	106.8

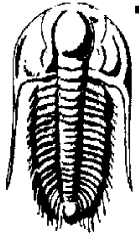
Printing every 3 samples

Serial # 8520 Outside				Serial # 8520 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	17.53	106.8		283.0	36.43	107.5
	223.0	18.12	106.8		284.5	36.73	107.5
	224.5	18.65	106.8		286.0	37.18	107.5
	226.0	19.12	106.8		287.5	37.62	107.5
	227.5	19.52	106.9		289.0	38.11	107.5
	229.0	20.04	106.9		290.5	38.43	107.6
	230.5	20.59	106.9		292.0	38.84	107.6
	232.0	20.95	106.9		293.5	39.47	107.6
	233.5	21.61	106.9		295.0	39.92	107.6
	235.0	21.85	106.9		296.5	40.20	107.6
	236.5	22.46	107.0		298.0	40.66	107.6
	238.0	22.94	107.0		299.5	41.15	107.6
	239.5	23.32	107.0		301.0	41.60	107.7
	241.0	23.86	107.0		302.5	41.91	107.7
	242.5	24.30	107.0		304.0	42.43	107.7
	244.0	24.73	107.1		305.5	42.88	107.7
	245.5	25.14	107.1		307.0	43.29	107.7
	247.0	25.54	107.1		308.5	43.53	107.7
	248.5	26.09	107.1		310.0	44.40	107.7
	250.0	26.57	107.1		311.5	44.58	107.8
	251.5	26.94	107.1		313.0	1595.55	108.4
	253.0	27.54	107.2		314.5	1589.85	108.3
	254.5	27.86	107.2		316.0	1575.83	108.3
	256.0	28.36	107.2		317.5	1566.20	108.3
	257.5	28.68	107.2		319.0	1564.90	108.3
	259.0	29.19	107.2		320.5	1529.48	108.1
	260.5	29.69	107.2		322.0	1501.72	107.5
	262.0	30.17	107.3		323.5	1489.53	107.1
	263.5	30.66	107.3		325.0	1510.98	105.8
	265.0	30.92	107.3		326.5	1478.35	104.7
	266.5	31.52	107.3		328.0	1445.58	103.7
	268.0	32.00	107.3		329.5	1328.16	102.6
	269.5	32.48	107.3		331.0	1325.86	101.1
	271.0	32.78	107.3		332.5	1280.81	100.4
	272.5	33.24	107.4		334.0	1244.39	99.4
	274.0	33.74	107.4		335.5	1225.01	98.5
	275.5	34.20	107.4		337.0	1201.73	97.5
	277.0	34.72	107.4		338.5	1129.19	96.9
	278.5	35.02	107.4		340.0	1109.94	96.1
	280.0	35.46	107.4		341.5	1078.08	95.5
	281.5	35.77	107.5		343.0	991.30	95.0

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	948.04	94.8		406.0	8.13	83.5
	346.0	943.93	94.7		407.5	8.13	83.5
	347.5	887.79	94.6		409.0	8.13	83.5
	349.0	864.52	94.5		410.5	8.13	83.5
	350.5	793.62	94.7		412.0	8.09	83.5
	352.0	773.47	94.7		413.5	13.13	83.5
	353.5	741.98	94.4		415.0	10.60	83.5
	355.0	673.28	93.3		416.5	11.98	83.5
	356.5	650.50	90.8		418.0	11.94	83.5
	358.0	619.27	89.1		419.5	9.63	83.4
	359.5	588.09	88.3		421.0	8.83	83.3
	361.0	585.88	88.2		422.5	8.75	83.3
	362.5	584.74	88.2		424.0	-0.18	83.1
	364.0	588.51	88.1		425.5	-1.09	82.7
	365.5	558.75	87.8		427.0	-0.46	66.7
	367.0	501.42	86.8		428.5	-0.97	61.3
	368.5	467.25	85.9		430.0	-1.05	58.8
	370.0	437.24	84.9		431.5	-1.10	57.1
	371.5	435.13	84.7		433.0	-1.10	55.9
	373.0	434.62	84.7		434.5	-1.09	55.1
	374.5	434.48	84.6		436.0	-1.17	54.5
	376.0	434.45	84.6		437.5	-1.09	56.3
	377.5	392.51	84.2		439.0	-1.16	55.7
	379.0	336.49	83.4		440.5	-1.06	55.2
	380.5	316.31	82.6		441.0	-0.98	55.5
	382.0	255.68	82.0				
	383.5	255.86	81.9				
	385.0	194.98	81.6				
	386.5	165.89	81.5				
	388.0	117.50	81.6				
	389.5	75.24	81.9				
	391.0	45.21	82.0				
	392.5	14.96	83.3				
	394.0	15.03	83.4				
	395.5	8.69	83.5				
	397.0	8.72	83.5				
	398.5	8.45	83.5				
	400.0	8.75	83.5				
	401.5	8.16	83.5				
	403.0	8.14	83.5				
	404.5	8.13	83.5				

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: 42822

**DST#: 1**

ATTN: Neil

Test Start: 2011.05.12 @ 00:15:02

Serial # 8653 Fluid				Serial # 8653 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.30	74.8		1.6	-0.40	73.5
	0.1	-1.23	74.9		1.7	-0.40	73.4
	0.1	-1.28	75.0		1.8	-0.40	73.3
	0.2	-1.26	75.1		1.8	-0.41	73.2
	0.2	-1.03	75.1		1.9	-0.41	73.1
	0.3	-1.34	75.1		1.9	-0.41	73.1
	0.3	-1.17	75.2		2.0	-0.45	73.0
	0.3	-0.58	74.5		12.0	-0.63	70.5
	0.4	-0.54	74.7		42.0	1.67	88.9
	0.4	-0.52	75.0		62.5	1.98	95.2
	0.5	-0.50	75.1		64.0	2.00	95.5
	0.6	-0.48	75.1		65.5	2.01	95.9
	0.6	-0.45	75.1		67.0	2.03	96.2
	0.6	-0.42	75.0		68.5	2.04	96.5
	0.7	-0.40	75.0		70.0	2.06	96.8
	0.8	-0.38	74.9		71.5	2.06	97.1
	0.8	-0.36	74.9		73.0	2.06	97.4
	0.9	-0.34	74.8		74.5	2.06	97.7
	0.9	-0.33	74.7		76.0	2.06	97.9
	0.9	-0.32	74.7		77.5	2.06	98.2
	1.0	-0.31	74.6		79.0	2.07	98.4
	1.0	-0.31	74.5		80.5	2.07	98.7
	1.1	-0.31	74.4		82.0	2.09	98.9
	1.1	-0.32	74.3		83.5	2.11	99.2
	1.2	-0.32	74.2		85.0	2.14	99.4
	1.3	-0.32	74.1		86.5	2.17	99.7
	1.3	-0.34	74.0		88.0	2.18	99.9
	1.4	-0.35	73.9		89.5	2.19	100.1
	1.4	-0.36	73.9		91.0	2.21	100.3
	1.5	-0.37	73.8		92.5	2.22	100.5
	1.5	-0.38	73.7		94.0	2.23	100.8
	1.5	-0.39	73.6		95.5	2.24	101.0
	1.6	-0.40	73.5		97.0	2.24	101.2

Printing every 3 samples

<b>Serial # 8653</b>				<b>Serial # 8653</b>			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	2.23	101.4		160.0	2.09	103.7
	100.0	2.23	101.6		161.5	2.11	103.9
	101.5	2.21	101.7		163.0	2.13	104.1
	103.0	2.19	101.8		164.5	2.15	104.2
	104.5	2.17	101.9		166.0	2.15	104.3
	106.0	2.15	102.0		167.5	2.16	104.5
	107.5	2.14	102.1		169.0	2.15	104.6
	109.0	2.13	102.2		170.5	2.14	104.6
	110.5	2.14	102.3		172.0	2.13	104.7
	112.0	2.14	102.4		173.5	2.13	104.8
	113.5	2.14	102.4		175.0	2.11	104.9
	115.0	2.12	102.5		176.5	2.12	104.9
	116.5	2.11	102.6		178.0	2.12	105.0
	118.0	2.10	102.6		179.5	2.12	105.0
	119.5	2.09	102.7		181.0	2.13	105.1
	121.0	2.08	102.7		182.5	2.15	105.1
	122.5	2.08	102.7		184.0	2.14	105.2
	124.0	2.08	102.8		185.5	2.15	105.3
	125.5	2.07	102.8		187.0	2.15	105.4
	127.0	2.07	102.9		188.5	2.14	105.6
	128.5	2.07	102.9		190.0	2.15	105.7
	130.0	2.07	102.9		191.5	2.15	105.7
	131.5	2.07	103.0		193.0	2.14	105.7
	133.0	2.05	103.0		194.5	2.13	105.7
	134.5	2.05	103.0		196.0	2.12	105.7
	136.0	2.04	103.1		197.5	2.11	105.7
	137.5	2.02	103.1		199.0	2.11	105.7
	139.0	2.02	103.1		200.5	2.10	105.7
	140.5	2.02	103.2		202.0	2.11	105.7
	142.0	2.00	103.2		203.5	2.11	105.8
	143.5	1.98	103.2		205.0	2.10	105.8
	145.0	1.99	103.2		206.5	2.09	105.8
	146.5	2.00	103.3		208.0	2.08	105.8
	148.0	2.00	103.3		209.5	2.08	105.8
	149.5	2.00	103.3		211.0	2.06	105.8
	151.0	2.00	103.3		212.5	2.06	105.8
	152.5	2.00	103.4		214.0	2.06	105.8
	154.0	2.00	103.4		215.5	2.06	105.9
	155.5	2.02	103.4		217.0	2.05	105.9
	157.0	2.05	103.4		218.5	2.05	105.9
	158.5	2.08	103.5		220.0	2.06	105.9

Printing every 3 samples

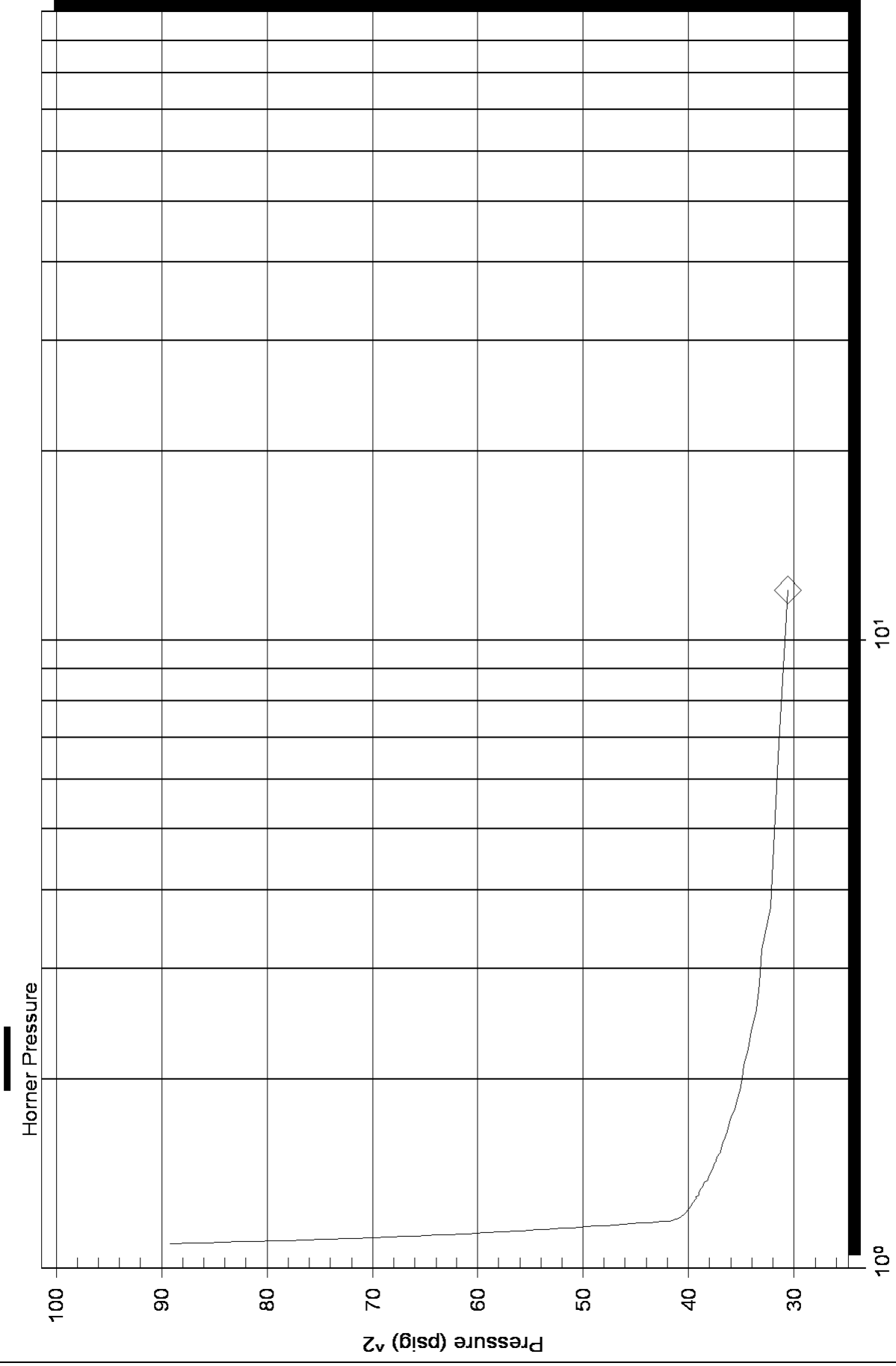
Serial # 8653				Serial # 8653			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	2.06	105.9		283.0	2.03	106.4
	223.0	2.06	105.9		284.5	2.02	106.4
	224.5	2.07	105.9		286.0	2.02	106.4
	226.0	2.08	105.9		287.5	2.03	106.4
	227.5	2.09	105.9		289.0	2.04	106.4
	229.0	2.08	106.0		290.5	2.06	106.4
	230.5	2.08	106.0		292.0	2.06	106.4
	232.0	2.07	106.0		293.5	2.04	106.4
	233.5	2.07	106.0		295.0	2.00	106.4
	235.0	2.06	106.0		296.5	1.91	106.3
	236.5	2.06	106.0		298.0	1.82	106.0
	238.0	2.06	106.0		299.5	1.74	105.4
	239.5	2.06	106.0		301.0	1.65	104.8
	241.0	2.04	106.1		302.5	1.57	104.1
	242.5	2.04	106.1		304.0	1.50	103.6
	244.0	2.05	106.1		305.5	1.42	103.0
	245.5	2.04	106.1		307.0	1.36	102.4
	247.0	2.04	106.1		308.5	1.28	102.0
	248.5	2.05	106.1		310.0	1.21	101.4
	250.0	2.05	106.1		311.5	1.15	100.8
	251.5	2.04	106.1		313.0	1.09	100.3
	253.0	2.05	106.1		314.5	1.04	99.7
	254.5	2.06	106.2		316.0	0.99	99.2
	256.0	2.06	106.2		317.5	0.99	98.7
	257.5	2.05	106.2		319.0	0.98	98.1
	259.0	2.05	106.2		320.5	0.97	97.8
	260.5	2.05	106.2		322.0	0.92	97.5
	262.0	2.04	106.2		323.5	0.88	97.3
	263.5	2.04	106.2		325.0	0.81	97.0
	265.0	2.04	106.2		326.5	0.72	96.5
	266.5	2.04	106.2		328.0	0.65	95.9
	268.0	2.04	106.3		329.5	0.59	95.1
	269.5	2.02	106.3		331.0	0.55	94.8
	271.0	2.03	106.3		332.5	0.51	94.4
	272.5	2.02	106.3		334.0	0.46	94.0
	274.0	2.02	106.3		335.5	0.38	93.4
	275.5	2.02	106.3		337.0	0.28	93.0
	277.0	2.04	106.3		338.5	0.47	92.5
	278.5	2.04	106.3		340.0	0.05	91.8
	280.0	2.04	106.3		341.5	-0.03	91.0
	281.5	2.05	106.3		343.0	-0.06	90.2

Printing every 3 samples

Serial # 8653 Fluid				Serial # 8653 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	-0.10	89.6		406.0	-1.76	55.3
	346.0	-0.13	89.1		407.5	-1.79	54.7
	347.5	-0.15	88.7		409.0	-2.17	56.5
	349.0	-0.17	88.3		410.5	-1.95	56.7
	350.5	-0.23	87.8		411.5	-1.96	57.1
	352.0	-0.27	87.3				
	353.5	-0.32	86.9				
	355.0	-0.37	86.4				
	356.5	-0.38	85.9				
	358.0	-0.38	85.5				
	359.5	-0.52	85.2				
	361.0	-0.43	85.0				
	362.5	-0.27	84.9				
	364.0	-0.30	84.5				
	365.5	-1.14	78.6				
	367.0	-1.39	73.7				
	368.5	-1.78	69.6				
	370.0	-2.35	65.9				
	371.5	-2.44	63.2				
	373.0	-2.51	60.9				
	374.5	-2.54	58.9				
	376.0	-2.54	57.3				
	377.5	-2.54	55.9				
	379.0	-2.54	55.0				
	380.5	-2.55	54.2				
	382.0	-2.54	53.6				
	383.5	-2.53	53.1				
	385.0	-2.53	52.7				
	386.5	-2.50	52.4				
	388.0	-2.49	52.1				
	389.5	-2.47	51.8				
	391.0	-2.46	51.5				
	392.5	-2.30	51.3				
	394.0	-2.44	51.2				
	395.5	-2.45	51.2				
	397.0	-2.47	51.1				
	398.5	-1.60	60.0				
	400.0	-1.65	57.8				
	401.5	-1.74	56.4				
	403.0	-1.86	56.3				
	404.5	-1.92	55.8				

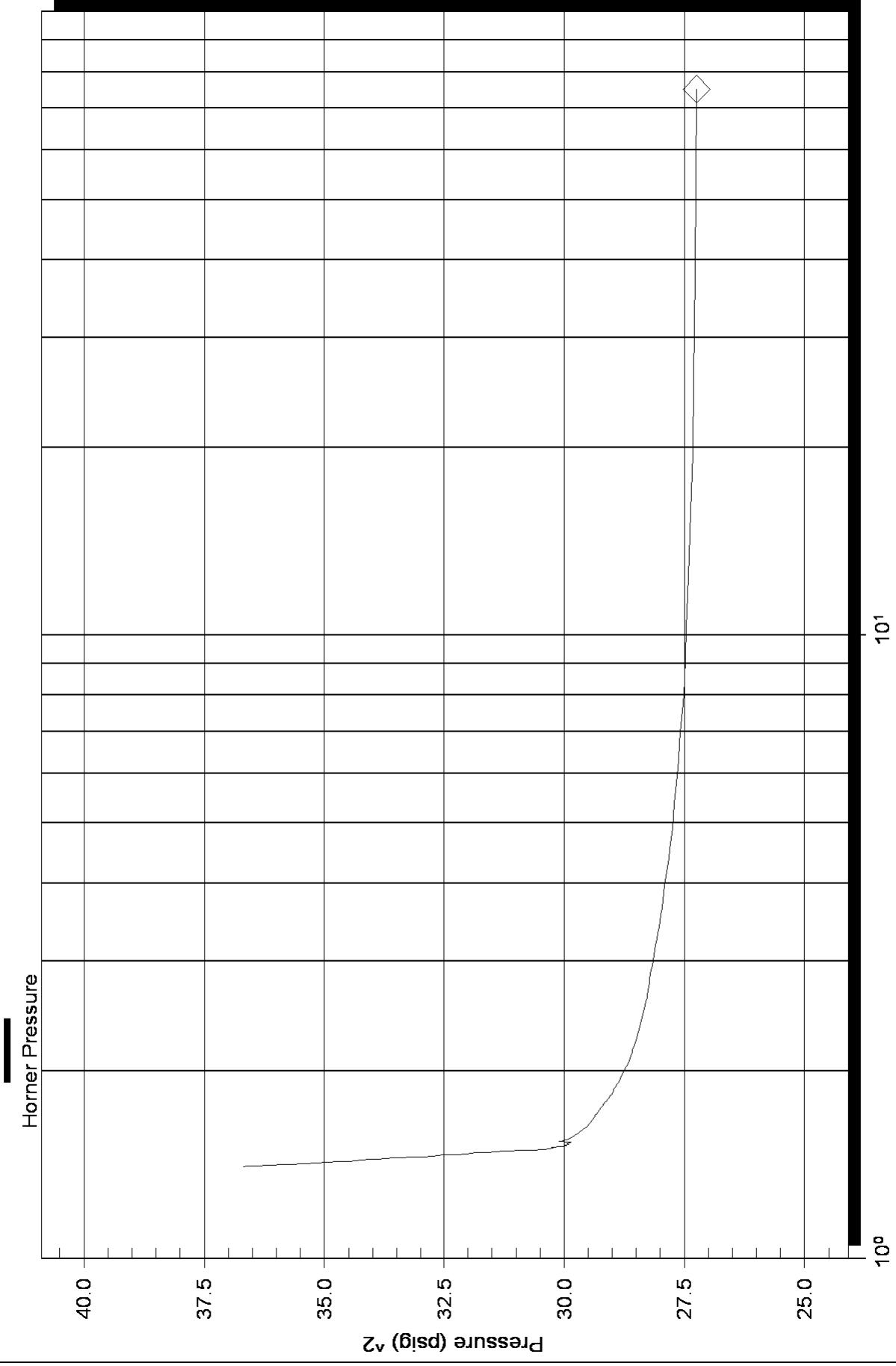
Printing every 3 samples

### Homer Plot

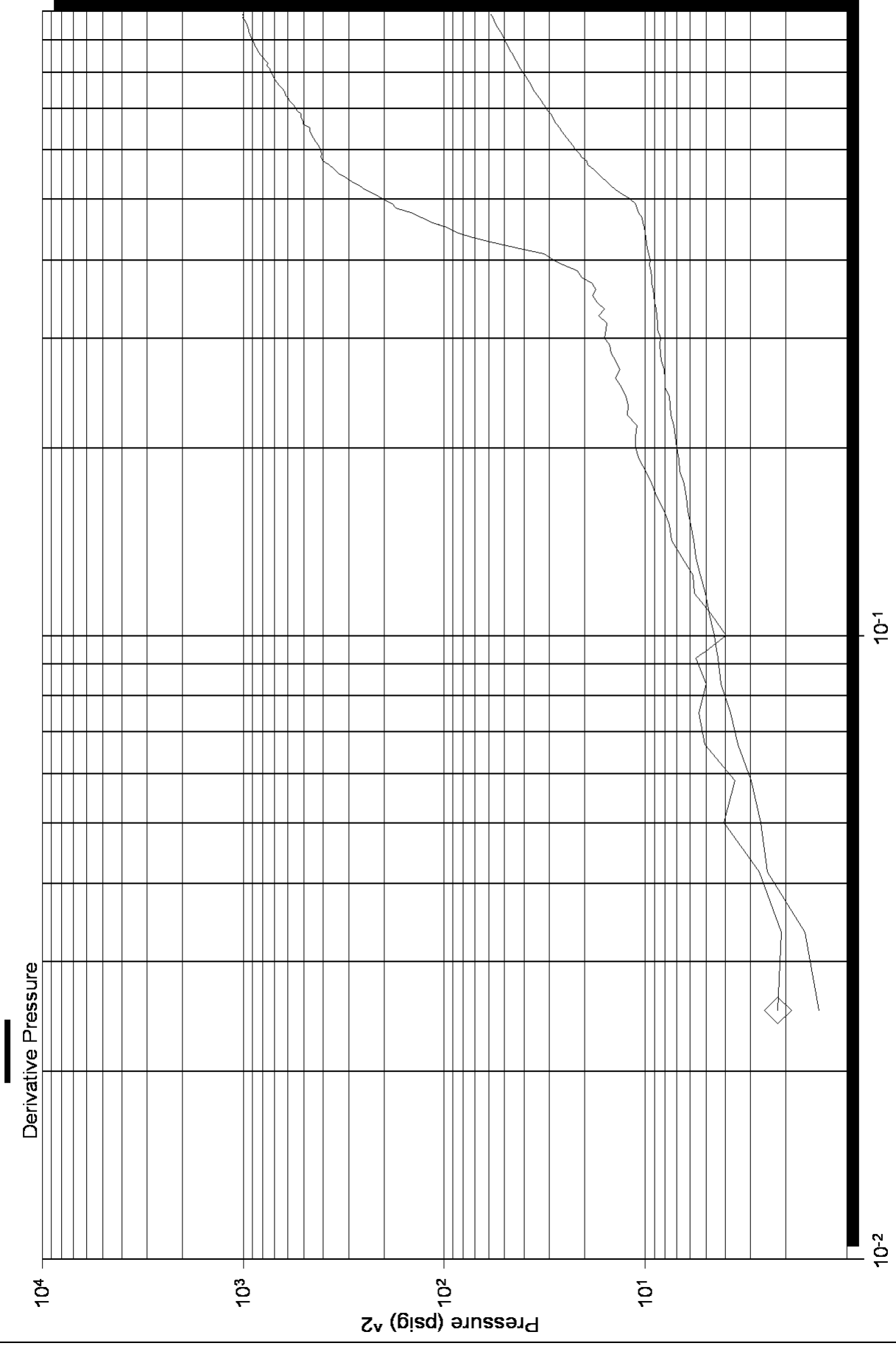




### Homer Plot



# Log-Log and Pseudo-Log-Derivative



# Log-Log and Pseudo-Derivative

