



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates, Inc.**

1515 Wynkoop St. Ste 700
Denver, CO 80202

ATTN: Neil Sharp

26-16-16 Rush, Ks

Clair 3-26

Start Date: 2011.06.04 @ 17:29:21

End Date: 2011.06.05 @ 01:03:51

Job Ticket #: 43401 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. and Associates, Inc.

Clair 3-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26-16-16 Rush, Ks

Job Ticket: 43401

DST#: 1

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:04:51

Time Test Ended: 01:03:51

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: 3250.00 ft (KB) To 3311.00 ft (KB) (TVD)

Reference Elevations: 1986.00 ft (KB)

Total Depth: 3311.00 ft (KB) (TVD)

1976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 68.86 psig @ 3256.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.04

End Date:

2011.06.05

Last Calib.:

2011.06.05

Start Time:

17:29:22

End Time:

01:03:51

Time On Btm:

2011.06.04 @ 19:03:21

Time Off Btm:

2011.06.04 @ 23:16:51

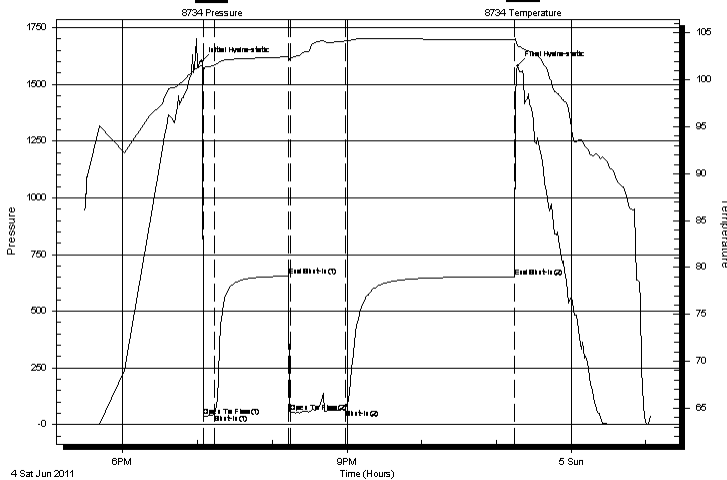
TEST COMMENT: 10 - IFP - weak blow throughout sur - 1"

60 - ISI - no blow back

45 - FFP - no blow 4 min - 6"

135 - FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.52	101.51	Initial Hydro-static
2	35.14	100.96	Open To Flow (1)
11	43.98	101.58	Shut-In(1)
70	654.53	102.47	End Shut-In(1)
71	52.52	102.31	Open To Flow (2)
116	68.86	104.17	Shut-In(2)
251	652.57	104.28	End Shut-In(2)
254	1580.47	103.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MUD 100%	0.91

Gas Rates

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



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Clair 3-26

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26-16-16 Rush, Ks

ATTN: Neil Sharp

Job Ticket: 43401

DST#: 1

Test Start: 2011.06.04 @ 17:29:21

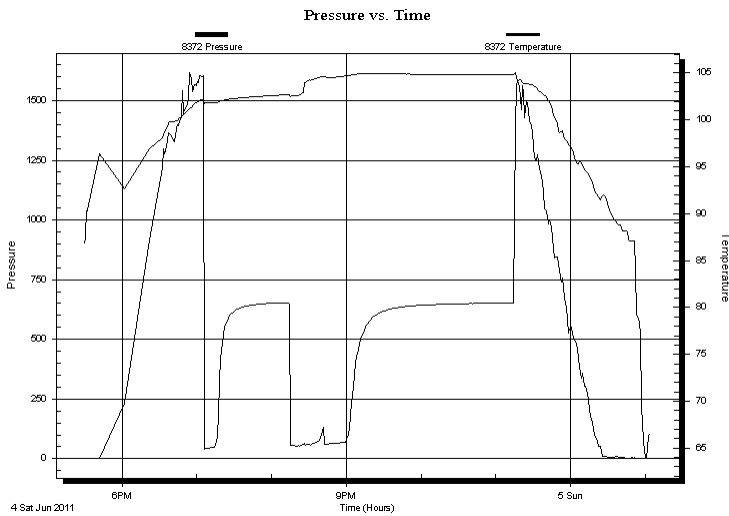
GENERAL INFORMATION:

Formation:	LKC "A-C"				
Deviated:	No Whipstock:	ft (KB)		Test Type:	Conventional Bottom Hole
Time Tool Opened:	19:04:51			Tester:	Brian Fairbank
Time Test Ended:	01:03:51			Unit No:	41
Interval:	3250.00 ft (KB) To 3311.00 ft (KB) (TVD)			Reference Elevations:	1986.00 ft (KB)
Total Depth:	3311.00 ft (KB) (TVD)				1976.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good		KB to GR/CF:	10.00 ft

Serial #: 8372 **Inside**

Press @ Run Depth:	psig @	3256.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2011.06.04	End Date:	2011.06.05	Last Calib.:	2011.06.05
Start Time:	17:29:57	End Time:	01:04:26	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 10 - IFP - weak blow throughout sur - 1"
 60 - ISI - no blow back
 45 - FFP - no blow 4 min - 6"
 135 - FSI - no blow back



PRESSURE SUMMARY

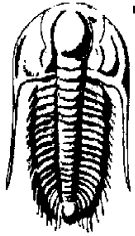
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MUD 100%	0.91

Gas Rates

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



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DRILL STEM TEST REPORT

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Clair 3-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26-16-16 Rush, Ks

Job Ticket: 43401

DST#: 1

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

GENERAL INFORMATION:

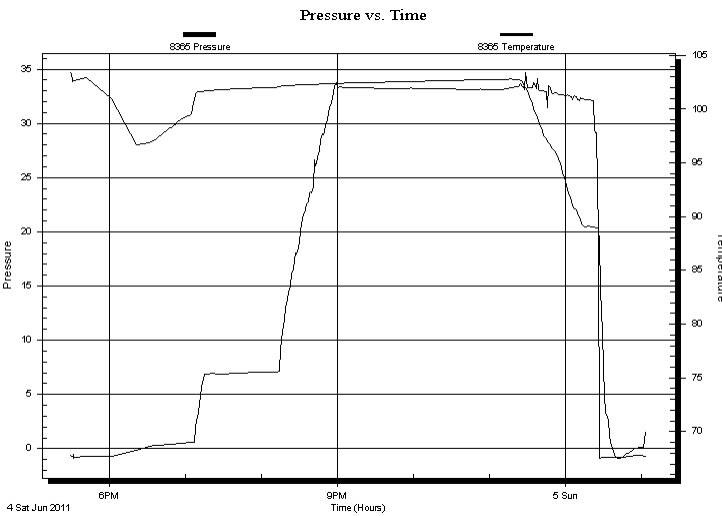
Formation:	LKC "A-C"		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole
Time Tool Opened:	19:04:51		Tester: Brian Fairbank
Time Test Ended:	01:03:51		Unit No: 41
Interval:	3250.00 ft (KB) To 3311.00 ft (KB) (TVD)		Reference Elevations:
Total Depth:	3311.00 ft (KB) (TVD)		1986.00 ft (KB)
Hole Diameter:	7.88 inches	Hole Condition: Good	1976.00 ft (CF)
			KB to GR/CF: 10.00 ft

Serial #: 8365 Fluid

Press@RunDepth:	psig @	3215.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2011.06.04	End Date:	2011.06.05	Last Calib.:
Start Time:	17:29:30	End Time:	01:03:59	Time On Btm:
				Time Off Btm:

TEST COMMENT: 10 - IFP - weak blow throughout sur - 1"
60 - ISI - no blow back
45 - FFP - no blow 4 min - 6"
135 - FSI - no blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MUD 100%	0.91

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. and Associates, Inc.

Clair 3-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26-16-16 Rush, Ks

Job Ticket: 43401

DST#: 1

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

Tool Information

Drill Pipe:	Length: 3220.00 ft	Diameter: 3.80 inches	Volume: 45.17 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3250.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	96.00 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	8365	Fluid	3215.00	
Blank Spacing	5.00			3220.00	
Shut In Tool	5.00			3225.00	
Sampler	3.00			3228.00	
Hydraulic tool	5.00			3233.00	
Jars	5.00			3238.00	
Safety Joint	2.00			3240.00	
Packer	5.00			3245.00	35.00 Bottom Of Top Packer
Packer	5.00			3250.00	
Stubb	1.00			3251.00	
Perforations	4.00			3255.00	
Change Over Sub	1.00			3256.00	
Recorder	0.00	8372	Inside	3256.00	
Recorder	0.00	8734	Outside	3256.00	
Blank Spacing	31.00			3287.00	
Change Over Sub	1.00			3288.00	
Perforations	20.00			3308.00	
Bullnose	3.00			3311.00	61.00 Bottom Packers & Anchor

Total Tool Length: 96.00



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FLUID SUMMARY

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26-16-16 Rush, Ks

Job Ticket: 43401

DST#: 1

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	MUD 100%	0.912

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 4000 ml mud 215 lbs



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DRILL STEM TEST REPORT

GAS RATES

Samuel Gary Jr. and Associates, Inc.

Clair 3-26

1515 Wynkoop St. Ste 700
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26-16-16 Rush, Ks

Job Ticket: 43401

DST#: 1

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

Gas Rates Information

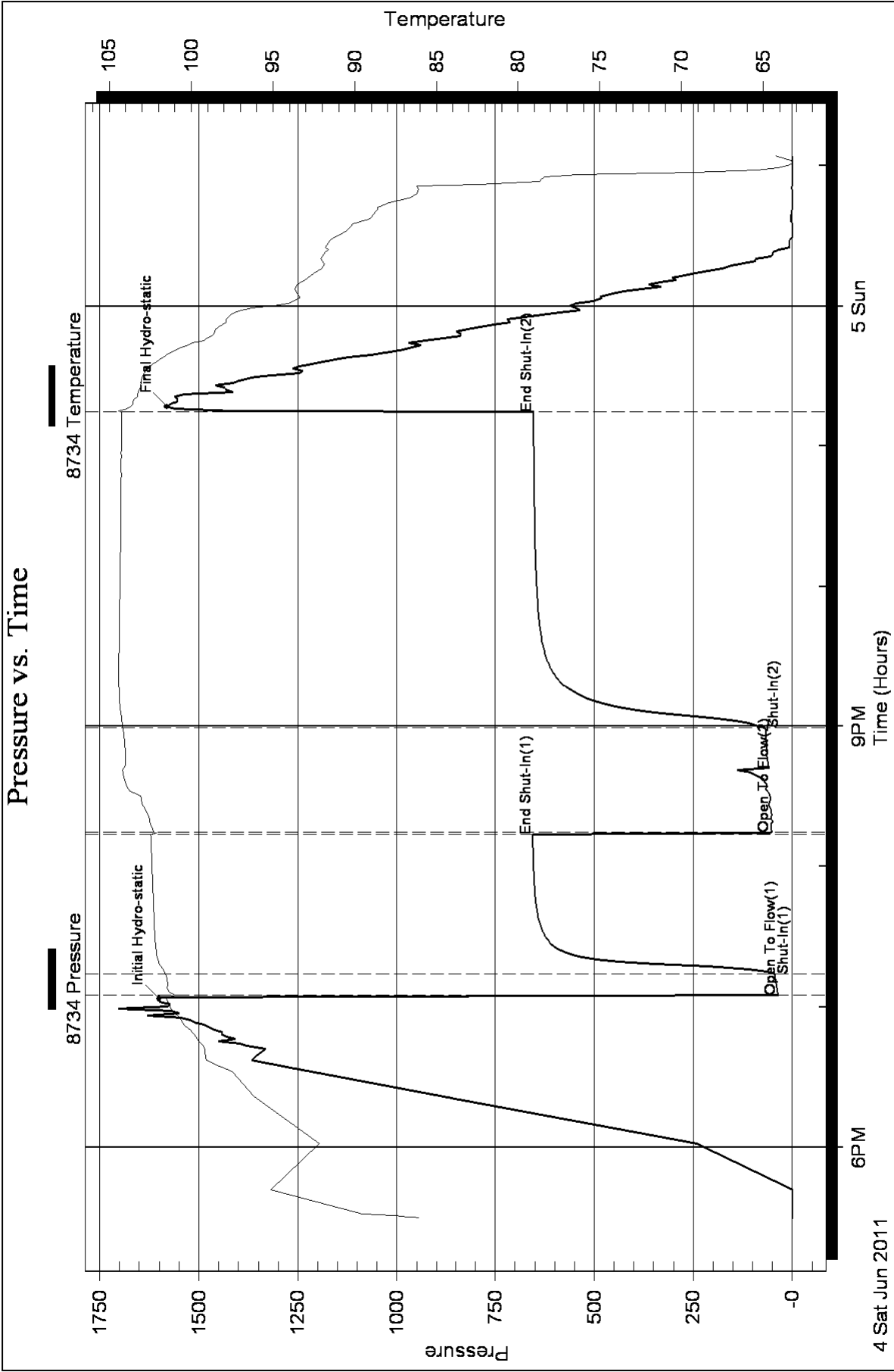
Temperature: 59 deg C

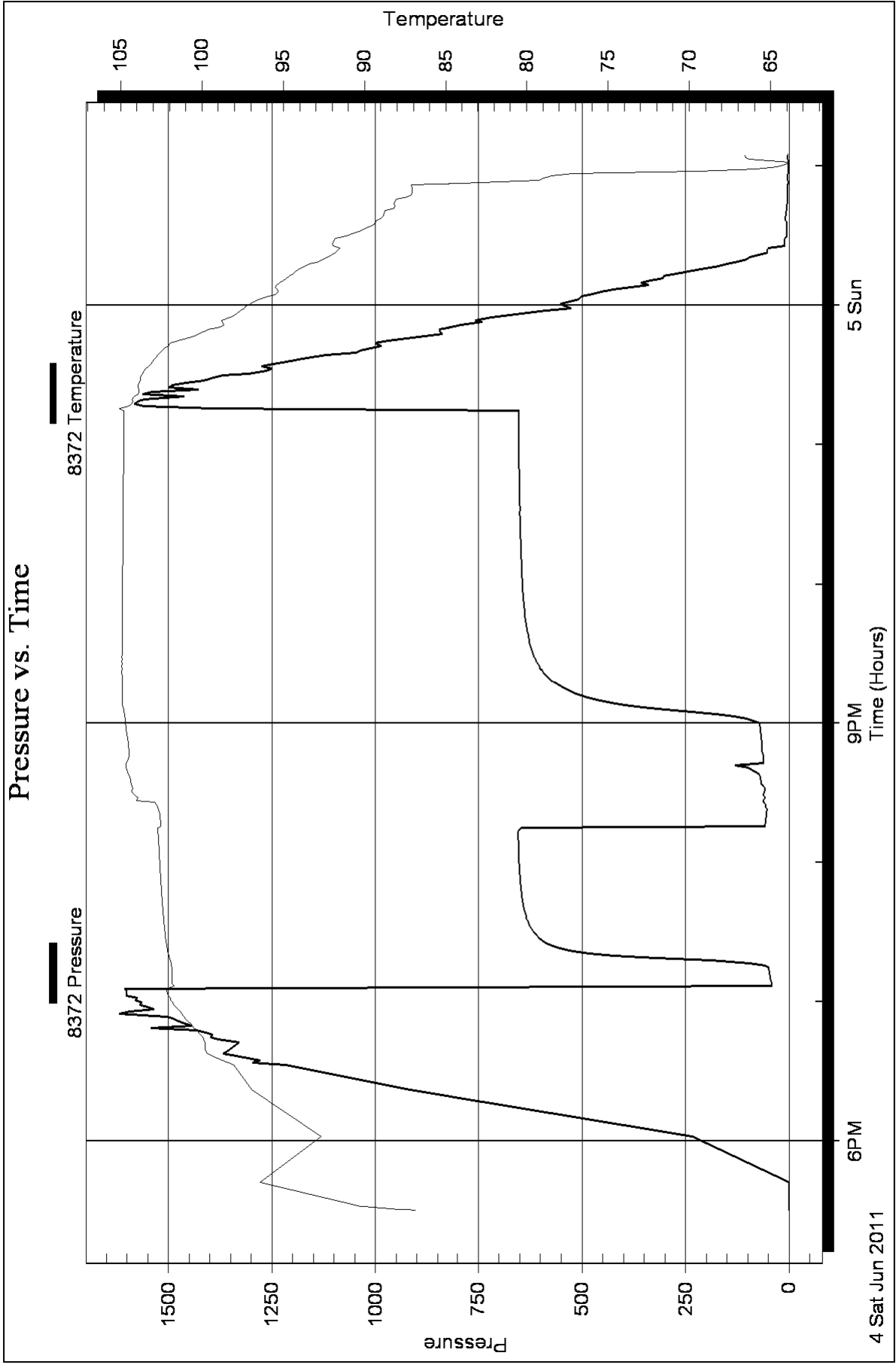
Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

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





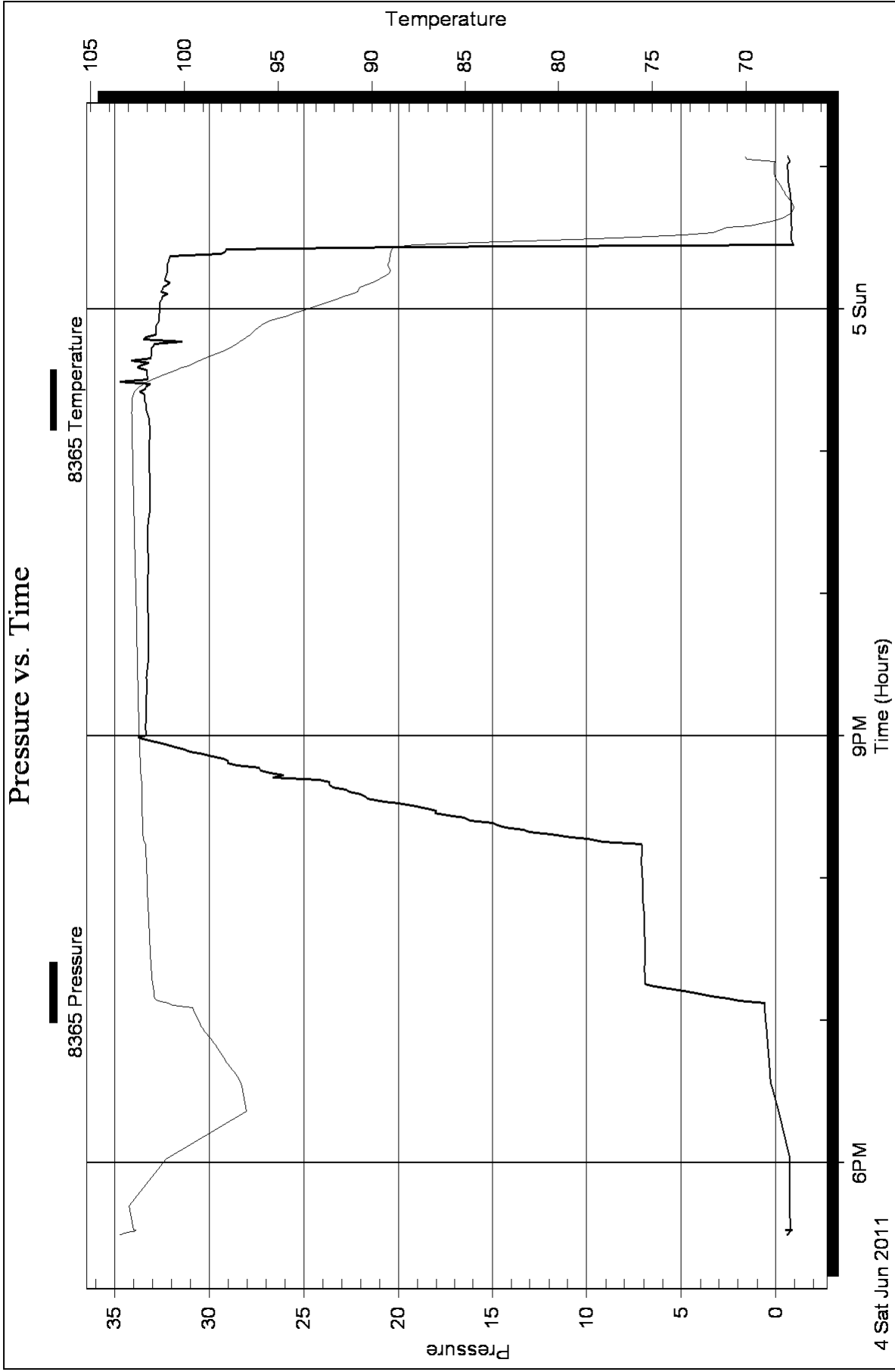
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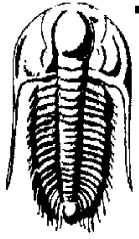
Fluid

Samuel Gary Jr. and Associates, Inc.

26-16-16 Rush, Ks

DST Test Number: 1





**TRILOBITE
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DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. and Associates, Inc.

Clair 3-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26-16-16 Rush, Ks

Job Ticket: 43401

DST#: 1

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

Serial # 8734 Outside				Serial # 8734 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.64	86.1		1.6	-0.75	89.2
	0.1	-0.60	86.1		1.7	-0.76	89.3
	0.1	-0.63	86.1		1.8	-0.76	89.4
	0.2	-0.60	86.2		1.8	-0.76	89.4
	0.2	-0.61	86.2		1.9	-0.77	89.5
	0.3	-0.61	86.3		1.9	-0.75	89.6
	0.3	-0.60	86.4		2.0	-0.74	89.7
	0.3	-0.59	86.5		12.0	-0.74	95.1
	0.4	-0.58	86.6		42.0	543.46	93.6
	0.4	-0.59	86.7		62.5	1216.40	97.5
	0.5	-0.59	86.8		64.0	1320.19	98.0
	0.6	-0.59	86.8		65.5	1307.25	98.5
	0.6	-0.61	86.9		67.0	1345.87	98.8
	0.6	-0.61	87.0		68.5	1360.75	99.1
	0.7	-0.61	87.1		70.0	1350.08	99.1
	0.8	-0.62	87.2		71.5	1339.37	99.2
	0.8	-0.62	87.3		73.0	1382.84	99.2
	0.9	-0.63	87.4		74.5	1397.44	99.4
	0.9	-0.62	87.4		76.0	1411.22	99.6
	0.9	-0.61	87.5		77.5	1430.18	99.7
	1.0	-0.62	87.7		79.0	1443.98	99.9
	1.0	-0.62	87.8		80.5	1459.09	100.1
	1.1	-0.63	87.9		82.0	1489.00	100.3
	1.1	-0.66	88.0		83.5	1505.45	100.5
	1.2	-0.67	88.2		85.0	1520.83	100.6
	1.3	-0.68	88.3		86.5	1629.75	100.8
	1.3	-0.68	88.4		88.0	1632.67	101.0
	1.4	-0.69	88.5		89.5	1702.24	101.2
	1.4	-0.70	88.6		91.0	1576.19	101.3
	1.5	-0.69	88.8		92.5	1599.55	101.4
	1.5	-0.73	88.9		93.0	1598.85	101.5
	1.5	-0.73	89.0		93.5	1597.99	101.5
	1.6	-0.74	89.1	Initial Hydro-static	94.0	1600.52	101.5

Printing every 3 samples

Serial # 8734 Outside				Serial # 8734 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
Open To Flow (1)	94.5	1598.79	101.5		145.0	651.18	102.4
	95.0	1600.74	101.5		146.5	651.63	102.4
	95.5	35.14	101.0		148.0	651.95	102.4
	96.0	36.30	101.2		149.5	652.34	102.4
	96.5	36.41	101.3		151.0	652.59	102.4
	97.0	36.37	101.4		152.5	652.92	102.4
	98.5	38.32	101.4		154.0	653.27	102.4
	100.0	40.11	101.4		155.5	653.30	102.4
	101.5	41.36	101.5		157.0	653.68	102.4
	103.0	43.46	101.5		158.5	653.90	102.4
	103.5	43.69	101.5		160.0	654.30	102.4
Shut-In(1)	104.0	43.76	101.6		161.5	654.40	102.5
	104.5	43.98	101.6		163.0	654.48	102.5
	105.0	49.28	101.6		163.5	654.53	102.5
	105.5	62.78	101.7	End Shut-In(1)	164.0	654.53	102.5
	106.0	81.61	101.7		164.5	59.56	102.2
	107.5	213.01	101.8	Open To Flow (2)	165.0	52.52	102.3
	109.0	397.57	102.0		165.5	50.79	102.3
	110.5	494.24	102.0		167.0	51.78	102.4
	112.0	542.96	102.1		168.5	55.04	102.5
	113.5	571.61	102.1		170.0	48.15	102.5
	115.0	590.02	102.2		171.5	55.04	102.6
	116.5	603.05	102.2		173.0	54.29	102.7
	118.0	612.58	102.2		174.5	52.43	102.8
	119.5	619.82	102.2		176.0	58.13	102.9
	121.0	625.48	102.2		177.5	57.52	103.0
	122.5	629.84	102.2		179.0	61.24	103.0
	124.0	633.38	102.2		180.5	56.70	103.1
	125.5	636.31	102.3		182.0	59.15	103.6
	127.0	638.66	102.3		183.5	68.10	103.9
	128.5	641.05	102.3		185.0	63.52	104.0
	130.0	642.67	102.3		186.5	69.94	104.0
	131.5	644.18	102.3		188.0	74.55	104.1
	133.0	645.22	102.3		189.5	93.99	104.1
	134.5	646.28	102.3		191.0	121.21	104.2
	136.0	647.38	102.3		192.5	58.11	104.1
	137.5	648.15	102.3		194.0	61.20	104.0
	139.0	648.79	102.3		195.5	61.30	104.0
	140.5	649.50	102.3		197.0	62.63	104.0
	142.0	650.20	102.3		198.5	63.10	104.0
	143.5	650.55	102.4		200.0	63.02	104.0

Printing every 3 samples

Serial # 8734 Outside				Serial # 8734 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	201.5	63.87	104.1		257.5	639.31	104.4
	203.0	64.50	104.1		259.0	640.20	104.4
	204.5	65.19	104.1		260.5	640.87	104.4
	206.0	65.65	104.1		262.0	641.53	104.4
	207.5	66.20	104.1		263.5	642.13	104.4
	208.5	66.76	104.1		265.0	642.74	104.4
	209.0	66.86	104.2		266.5	643.37	104.4
Shut-In(2)	209.5	68.86	104.2		268.0	643.62	104.4
	210.0	76.98	104.2		269.5	644.12	104.4
	210.5	86.01	104.2		271.0	644.74	104.4
	211.0	96.59	104.2		272.5	645.22	104.4
	212.5	141.64	104.2		274.0	645.43	104.3
	214.0	217.18	104.3		275.5	645.83	104.3
	215.5	310.11	104.3		277.0	646.17	104.3
	217.0	385.10	104.3		278.5	646.52	104.3
	218.5	436.73	104.4		280.0	646.83	104.3
	220.0	474.69	104.4		281.5	647.18	104.3
	221.5	503.90	104.4		283.0	647.24	104.3
	223.0	527.01	104.4		284.5	647.64	104.3
	224.5	545.38	104.4		286.0	647.82	104.3
	226.0	560.24	104.4		287.5	648.07	104.3
	227.5	572.66	104.4		289.0	648.38	104.3
	229.0	582.49	104.4		290.5	648.44	104.3
	230.5	590.77	104.4		292.0	649.08	104.3
	232.0	597.80	104.4		293.5	648.91	104.3
	233.5	603.69	104.4		295.0	648.98	104.3
	235.0	608.78	104.4		296.5	649.23	104.3
	236.5	613.10	104.4		298.0	649.36	104.3
	238.0	616.72	104.4		299.5	649.58	104.3
	239.5	619.89	104.4		301.0	649.76	104.3
	241.0	622.67	104.4		302.5	650.23	104.3
	242.5	625.23	104.4		304.0	649.99	104.3
	244.0	627.48	104.4		305.5	650.51	104.3
	245.5	629.39	104.4		307.0	650.33	104.3
	247.0	631.04	104.4		308.5	650.74	104.3
	248.5	632.63	104.4		310.0	650.84	104.3
	250.0	634.03	104.4		311.5	650.93	104.3
	251.5	635.29	104.4		313.0	651.01	104.3
	253.0	636.58	104.4		314.5	651.10	104.3
	254.5	637.45	104.4		316.0	651.21	104.3
	256.0	638.50	104.4		317.5	651.01	104.3

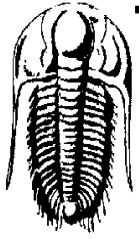
Printing every 3 samples

Serial # 8734 Outside				Serial # 8734 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	319.0	651.42	104.3		370.0	1080.36	101.4
	320.5	651.52	104.3		371.5	993.89	101.0
	322.0	651.60	104.3		373.0	1003.10	100.4
	323.5	651.67	104.3		374.5	970.88	99.9
	325.0	651.74	104.3		376.0	869.56	99.1
	326.5	651.81	104.3		377.5	839.25	98.7
	328.0	651.90	104.3		379.0	847.07	98.6
	329.5	651.99	104.3		380.5	818.71	98.5
	331.0	652.06	104.3		382.0	788.34	98.2
	332.5	652.15	104.3		383.5	712.96	97.9
	334.0	652.21	104.3		385.0	675.72	97.8
	335.5	652.26	104.3		386.5	631.37	97.6
	337.0	652.33	104.3		388.0	586.08	97.3
	338.5	652.40	104.3		389.5	545.04	96.3
	340.0	652.44	104.3		391.0	573.94	94.4
	341.5	652.48	104.3		392.5	503.81	93.8
	343.0	652.50	104.3		394.0	484.36	93.3
	344.0	652.54	104.3		395.5	454.07	93.5
	344.5	652.59	104.3		397.0	396.48	93.6
End Shut-In(2)	345.0	652.57	104.3		398.5	331.45	93.6
	345.5	1416.69	104.4		400.0	337.32	93.4
	346.0	1477.06	104.1		401.5	293.63	93.1
	346.5	1561.99	103.9		403.0	272.46	92.8
	347.0	1589.36	103.8		404.5	242.97	92.5
Final Hydro-static	347.5	1580.47	103.7		406.0	195.53	92.2
	348.0	1573.83	103.7		407.5	152.81	91.9
	348.5	1569.19	103.6		409.0	122.51	92.0
	349.0	1561.90	103.6		410.5	91.83	92.1
	350.5	1554.00	103.5		412.0	48.44	92.0
	352.0	1528.61	103.3		413.5	48.41	91.8
	353.5	1413.50	103.2		415.0	5.40	91.7
	355.0	1492.45	103.2		416.5	5.98	91.7
	356.5	1457.47	103.1		418.0	6.02	91.5
	358.0	1330.99	103.0		419.5	-0.21	91.3
	359.5	1368.93	103.0		421.0	-0.34	90.9
	361.0	1337.67	102.9		422.5	-0.45	90.5
	362.5	1238.59	102.8		424.0	-0.46	90.3
	364.0	1248.58	102.6		425.5	-0.48	90.1
	365.5	1215.69	102.4		427.0	3.23	89.4
	367.0	1125.97	102.0		428.5	3.12	89.0
	368.5	1122.88	101.7		430.0	2.46	88.8

Printing every 3 samples

Serial # 8734 Outside				Serial # 8372 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	431.5	0.38	88.6				
	433.0	1.22	88.6				
	434.5	-0.70	87.9				
	436.0	-0.58	86.9				
	437.5	-0.44	86.4				
	439.0	-0.84	86.2				
	440.5	-0.17	86.1				
	442.0	-0.05	86.2				
	443.5	-0.59	78.7				
	445.0	-0.57	78.7				
	446.5	-0.66	76.3				
	448.0	-0.58	66.9				
	449.5	-0.63	64.1				
	451.0	-0.71	63.4				
	452.5	-0.49	63.3				
	454.0	-0.29	63.8				
	454.5	-0.27	64.3				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. and Associates, Inc.

Clair 3-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26-16-16 Rush, Ks

Job Ticket: 43401

DST#: 1

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

Serial # 8372 Inside				Serial # 8372 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.05	86.9		1.6	0.16	89.9
	0.1	-0.12	87.0		1.7	0.16	90.0
	0.1	-0.08	87.0		1.8	0.18	90.1
	0.2	-0.07	87.1		1.8	0.22	90.1
	0.2	-0.05	87.1		1.9	0.24	90.2
	0.3	-0.01	87.1		1.9	0.27	90.3
	0.3	0.01	87.2		2.0	0.29	90.4
	0.3	0.01	87.3		12.0	0.40	96.4
	0.4	0.00	87.4		42.0	543.17	94.2
	0.4	-0.01	87.5		62.5	1217.89	98.1
	0.5	-0.02	87.7		64.0	1244.28	98.6
	0.6	-0.02	87.9		65.5	1306.77	99.0
	0.6	-0.01	88.1		67.0	1440.42	99.4
	0.6	-0.01	88.3		68.5	1359.45	99.8
	0.7	0.00	88.4		70.0	1348.29	99.8
	0.8	0.00	88.5		71.5	1337.19	99.8
	0.8	0.02	88.6		73.0	1453.31	99.9
	0.9	0.03	88.7		74.5	1399.11	100.0
	0.9	0.04	88.8		76.0	1411.85	100.1
	0.9	0.05	88.8		77.5	1430.69	100.3
	1.0	0.05	88.9		79.0	1446.07	100.5
	1.0	0.06	89.0		80.5	1460.45	100.7
	1.1	0.06	89.1		82.0	1575.86	101.0
	1.1	0.07	89.2		83.5	1506.64	101.1
	1.2	0.08	89.3		85.0	1522.76	101.3
	1.3	0.08	89.3		86.5	1535.47	101.4
	1.3	0.10	89.4		88.0	1548.94	101.7
	1.4	0.09	89.5		89.5	1564.26	101.8
	1.4	0.09	89.6		91.0	1578.38	101.9
	1.5	0.11	89.6		92.5	1603.15	102.1
	1.5	0.12	89.7		94.0	1602.01	102.2
	1.5	0.13	89.8		95.5	1606.24	102.2
	1.6	0.14	89.9		97.0	41.05	101.8

Printing every 3 samples

Serial # 8372 Inside				Serial # 8372 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	43.18	101.9		160.0	653.02	102.7
	100.0	45.20	101.9		161.5	653.11	102.7
	101.5	46.16	101.9		163.0	653.14	102.7
	103.0	48.43	101.9		164.5	647.03	102.7
	104.5	48.98	101.9		166.0	57.10	102.5
	106.0	72.03	101.9		167.5	55.87	102.5
	107.5	187.51	101.9		169.0	57.21	102.6
	109.0	378.00	102.0		170.5	54.09	102.6
	110.5	482.89	102.1		172.0	53.66	102.6
	112.0	535.02	102.1		173.5	56.53	102.7
	113.5	565.15	102.1		175.0	58.09	102.8
	115.0	584.54	102.2		176.5	63.07	104.0
	116.5	598.05	102.2		178.0	61.69	104.0
	118.0	608.11	102.2		179.5	60.61	104.2
	119.5	615.50	102.3		181.0	60.47	104.4
	121.0	621.33	102.3		182.5	62.00	104.3
	122.5	625.99	102.3		184.0	67.55	104.4
	124.0	629.67	102.3		185.5	69.07	104.4
	125.5	632.73	102.4		187.0	73.82	104.4
	127.0	635.51	102.4		188.5	79.14	104.6
	128.5	637.65	102.4		190.0	94.96	104.6
	130.0	639.60	102.4		191.5	129.99	104.7
	131.5	641.14	102.4		193.0	61.45	104.6
	133.0	642.62	102.4		194.5	61.77	104.5
	134.5	643.91	102.5		196.0	62.97	104.5
	136.0	645.04	102.5		197.5	64.33	104.5
	137.5	645.86	102.5		199.0	64.76	104.5
	139.0	646.83	102.5		200.5	65.08	104.5
	140.5	647.48	102.5		202.0	66.18	104.6
	142.0	648.32	102.5		203.5	66.66	104.6
	143.5	648.95	102.5		205.0	67.51	104.6
	145.0	649.52	102.6		206.5	68.46	104.6
	146.5	650.04	102.6		208.0	69.31	104.7
	148.0	650.51	102.6		209.5	70.01	104.7
	149.5	650.93	102.6		211.0	90.87	104.7
	151.0	651.36	102.6		212.5	132.88	104.7
	152.5	651.69	102.6		214.0	204.59	104.8
	154.0	651.83	102.6		215.5	297.78	104.8
	155.5	652.05	102.6		217.0	375.29	104.9
	157.0	652.40	102.7		218.5	428.50	104.9
	158.5	652.52	102.7		220.0	467.67	104.9

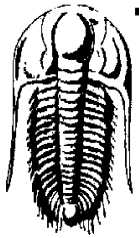
Printing every 3 samples

Serial # 8372 Inside				Serial # 8372 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	497.60	104.9		283.0	646.36	104.9
	223.0	521.33	104.9		284.5	646.63	104.9
	224.5	540.15	104.9		286.0	646.87	104.9
	226.0	555.34	104.9		287.5	647.07	104.9
	227.5	568.00	104.9		289.0	647.40	104.9
	229.0	578.22	104.9		290.5	647.60	104.8
	230.5	586.69	104.9		292.0	647.84	104.8
	232.0	593.85	104.9		293.5	647.98	104.8
	233.5	599.99	104.9		295.0	648.12	104.8
	235.0	605.21	104.9		296.5	648.30	104.8
	236.5	609.86	104.9		298.0	648.46	104.8
	238.0	613.67	104.9		299.5	649.10	104.8
	239.5	617.01	104.9		301.0	649.24	104.8
	241.0	619.80	104.9		302.5	649.05	104.8
	242.5	622.43	104.9		304.0	649.19	104.8
	244.0	624.77	104.9		305.5	649.28	104.8
	245.5	626.86	104.9		307.0	649.44	104.8
	247.0	628.61	104.9		308.5	649.59	104.8
	248.5	630.40	104.9		310.0	649.73	104.8
	250.0	631.85	104.9		311.5	649.85	104.8
	251.5	633.18	104.9		313.0	650.32	104.8
	253.0	634.54	104.9		314.5	650.42	104.8
	254.5	635.76	104.9		316.0	650.53	104.8
	256.0	636.97	104.9		317.5	650.64	104.8
	257.5	637.60	104.9		319.0	650.75	104.8
	259.0	638.44	104.9		320.5	650.86	104.8
	260.5	639.25	104.9		322.0	650.98	104.8
	262.0	640.00	104.9		323.5	651.10	104.8
	263.5	640.79	104.9		325.0	651.23	104.8
	265.0	641.44	104.9		326.5	651.04	104.8
	266.5	641.92	104.9		328.0	651.20	104.8
	268.0	642.47	104.9		329.5	651.31	104.8
	269.5	643.01	104.9		331.0	651.77	104.8
	271.0	643.51	104.9		332.5	651.87	104.8
	272.5	643.90	104.9		334.0	651.96	104.8
	274.0	644.26	104.9		335.5	652.03	104.8
	275.5	644.71	104.9		337.0	652.10	104.8
	277.0	645.02	104.9		338.5	652.18	104.8
	278.5	645.42	104.9		340.0	652.22	104.8
	280.0	645.74	104.9		341.5	652.26	104.8
	281.5	646.10	104.9		343.0	652.31	104.8

Printing every 3 samples

Serial # 8372 Inside				Serial # 8372 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	652.36	104.8		406.0	213.12	94.0
	346.0	1469.34	104.6		407.5	151.25	93.4
	347.5	1581.76	104.3		409.0	123.61	92.7
	349.0	1564.34	104.3		410.5	95.54	92.2
	350.5	1463.15	104.2		412.0	53.51	91.9
	352.0	1401.12	103.8		413.5	53.13	91.7
	353.5	1428.16	103.9		415.0	11.51	91.5
	355.0	1496.74	103.9		416.5	11.05	92.0
	356.5	1456.82	103.9		418.0	11.09	91.8
	358.0	1345.11	103.7		419.5	4.77	91.1
	359.5	1368.92	103.7		421.0	4.72	90.5
	361.0	1339.10	103.6		422.5	4.78	90.1
	362.5	1249.22	103.5		424.0	4.82	89.6
	364.0	1235.83	103.2		425.5	4.78	89.3
	365.5	1215.84	103.1		427.0	8.25	89.1
	367.0	1155.66	102.9		428.5	7.77	88.9
	368.5	1118.03	102.7		430.0	7.46	88.8
	370.0	1077.78	102.5		431.5	5.26	88.2
	371.5	1012.35	102.3		433.0	4.38	88.2
	373.0	1003.64	102.0		434.5	3.94	88.1
	374.5	969.77	101.5		436.0	3.95	87.7
	376.0	869.90	100.6		437.5	4.02	87.1
	377.5	839.49	100.2		439.0	4.15	87.1
	379.0	844.96	99.7		440.5	3.97	87.1
	380.5	817.07	98.9		442.0	4.41	87.1
	382.0	790.05	98.8		443.5	3.38	79.2
	383.5	757.14	98.8		445.0	3.85	78.9
	385.0	673.87	98.1		446.5	3.78	77.2
	386.5	631.40	97.8		448.0	0.55	67.2
	388.0	585.31	97.5		449.5	1.11	64.6
	389.5	541.50	97.3		451.0	1.78	64.0
	391.0	572.58	96.9		452.5	3.12	66.3
	392.5	507.31	96.5		454.0	3.19	66.5
	394.0	484.63	95.6		454.5	3.23	66.6
	395.5	453.75	95.3				
	397.0	425.11	95.4				
	398.5	339.06	95.4				
	400.0	327.04	95.1				
	401.5	304.71	94.8				
	403.0	266.84	94.5				
	404.5	243.89	94.3				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Samuel Gary Jr. and Associates, Inc.

Clair 3-26

1515 Wynkoop St. Ste 700
Denver, CO 80202

26-16-16 Rush, Ks

Job Ticket: 43401

DST#: 1

ATTN: Neil Sharp

Test Start: 2011.06.04 @ 17:29:21

Serial # 8365 Fluid				Serial # 8365 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.62	103.4		1.6	-0.77	102.6
	0.1	-0.60	103.4		1.7	-0.76	102.6
	0.1	-0.64	103.4		1.8	-0.76	102.6
	0.2	-0.64	103.3		1.8	-0.77	102.6
	0.2	-0.64	103.3		1.9	-0.70	102.6
	0.3	-0.65	103.3		1.9	-0.49	102.7
	0.3	-0.66	103.3		2.0	-0.80	102.7
	0.3	-0.67	103.2		12.0	-0.73	103.0
	0.4	-0.69	103.2		42.0	-0.42	97.6
	0.4	-0.69	103.2		62.5	0.23	96.9
	0.5	-0.69	103.2		64.0	0.25	97.0
	0.6	-0.69	103.2		65.5	0.28	97.1
	0.6	-0.70	103.1		67.0	0.31	97.2
	0.6	-0.70	103.1		68.5	0.30	97.4
	0.7	-0.72	103.1		70.0	0.32	97.5
	0.8	-0.72	103.1		71.5	0.33	97.6
	0.8	-0.71	103.0		73.0	0.35	97.8
	0.9	-0.71	103.0		74.5	0.36	97.9
	0.9	-0.70	103.0		76.0	0.37	98.0
	0.9	-0.71	103.0		77.5	0.39	98.2
	1.0	-0.71	103.0		79.0	0.41	98.3
	1.0	-0.71	102.9		80.5	0.42	98.4
	1.1	-0.72	102.9		82.0	0.44	98.6
	1.1	-0.71	102.9		83.5	0.46	98.7
	1.2	-0.72	102.9		85.0	0.48	98.9
	1.3	-0.73	102.9		86.5	0.48	99.0
	1.3	-0.74	102.8		88.0	0.50	99.1
	1.4	-0.75	102.7		89.5	0.52	99.2
	1.4	-0.76	102.7		91.0	0.54	99.3
	1.5	-0.76	102.6		92.5	0.55	99.4
	1.5	-0.77	102.6		94.0	0.57	99.5
	1.5	-0.76	102.6		95.5	0.59	99.6
	1.6	-0.77	102.6		97.0	0.58	100.7

Printing every 3 samples

Serial # 8365				Serial # 8365			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	1.95	101.4		160.0	7.08	102.0
	100.0	2.90	101.6		161.5	7.08	102.0
	101.5	4.21	101.6		163.0	7.06	102.1
	103.0	5.34	101.6		164.5	7.11	102.1
	104.5	6.41	101.7		166.0	9.80	102.2
	106.0	6.89	101.7		167.5	10.84	102.2
	107.5	6.89	101.7		169.0	12.12	102.2
	109.0	6.90	101.7		170.5	13.33	102.2
	110.5	6.92	101.8		172.0	14.55	102.2
	112.0	6.92	101.8		173.5	14.95	102.2
	113.5	6.91	101.8		175.0	16.28	102.2
	115.0	6.90	101.8		176.5	17.37	102.2
	116.5	6.90	101.8		178.0	18.09	102.2
	118.0	6.89	101.8		179.5	18.49	102.3
	119.5	6.89	101.8		181.0	19.51	102.3
	121.0	6.89	101.8		182.5	20.75	102.3
	122.5	6.90	101.8		184.0	21.11	102.3
	124.0	6.91	101.9		185.5	21.99	102.3
	125.5	6.92	101.9		187.0	22.67	102.3
	127.0	6.92	101.9		188.5	23.46	102.3
	128.5	6.94	101.9		190.0	23.55	102.3
	130.0	6.95	101.9		191.5	24.20	102.3
	131.5	6.95	101.9		193.0	26.01	102.3
	133.0	6.95	101.9		194.5	26.75	102.3
	134.5	6.95	101.9		196.0	27.32	102.3
	136.0	6.97	101.9		197.5	28.51	102.3
	137.5	6.98	101.9		199.0	28.89	102.3
	139.0	7.00	101.9		200.5	29.27	102.4
	140.5	7.01	101.9		202.0	29.98	102.4
	142.0	7.02	101.9		203.5	31.00	102.4
	143.5	7.01	102.0		205.0	31.65	102.4
	145.0	7.02	102.0		206.5	32.32	102.4
	146.5	7.02	102.0		208.0	32.96	102.4
	148.0	7.02	102.0		209.5	33.75	102.4
	149.5	7.03	102.0		211.0	33.33	102.4
	151.0	7.05	102.0		212.5	33.35	102.4
	152.5	7.06	102.0		214.0	33.35	102.4
	154.0	7.07	102.0		215.5	33.34	102.4
	155.5	7.09	102.0		217.0	33.33	102.4
	157.0	7.09	102.0		218.5	33.33	102.4
	158.5	7.09	102.0		220.0	33.33	102.4

Printing every 3 samples

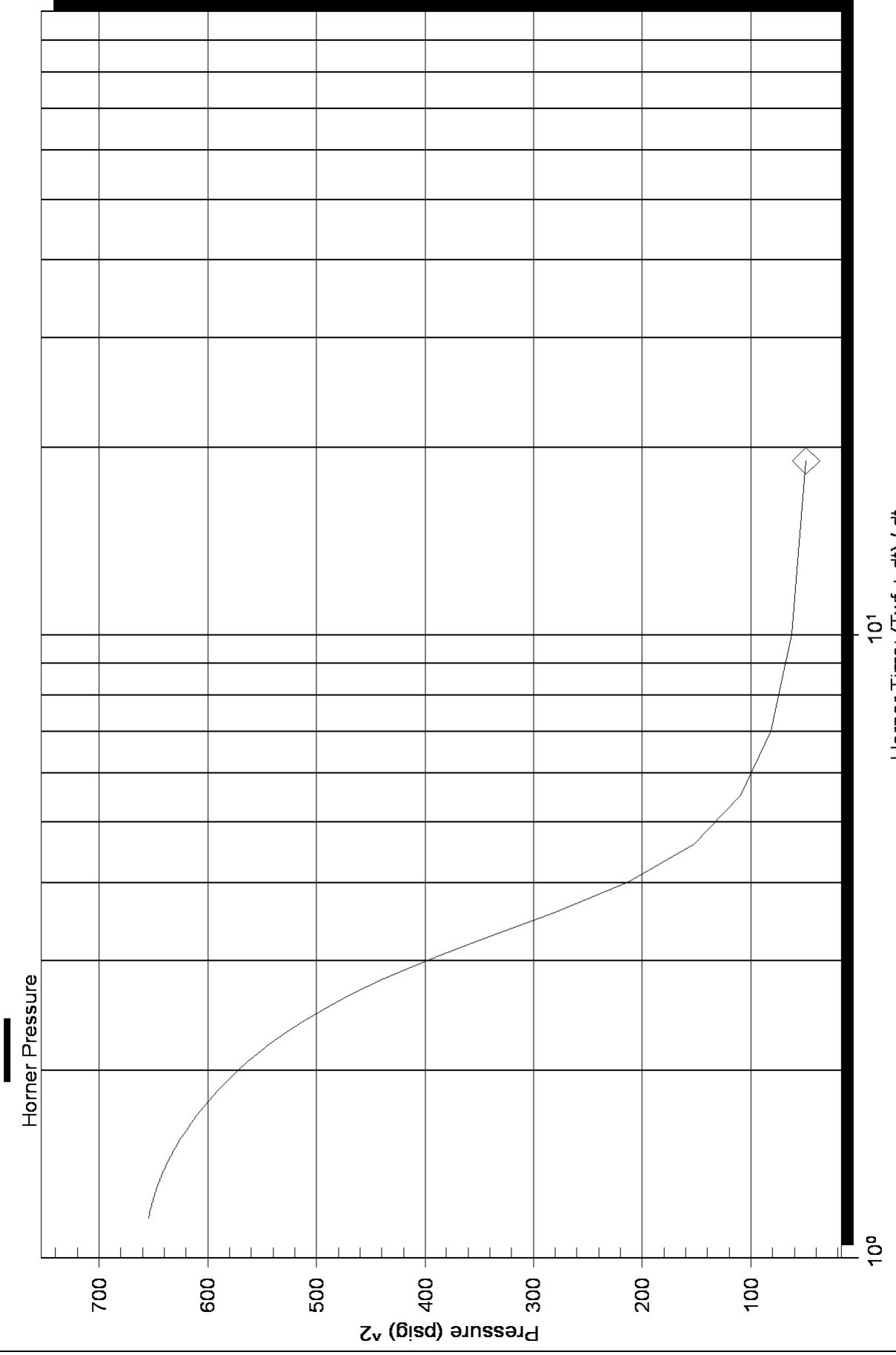
Serial # 8365				Serial # 8365			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	33.33	102.4		283.0	33.20	102.6
	223.0	33.33	102.4		284.5	33.19	102.6
	224.5	33.33	102.5		286.0	33.20	102.6
	226.0	33.32	102.5		287.5	33.21	102.6
	227.5	33.31	102.5		289.0	33.22	102.6
	229.0	33.29	102.5		290.5	33.23	102.6
	230.5	33.28	102.5		292.0	33.24	102.6
	232.0	33.28	102.5		293.5	33.23	102.7
	233.5	33.29	102.5		295.0	33.23	102.7
	235.0	33.31	102.5		296.5	33.23	102.7
	236.5	33.29	102.5		298.0	33.23	102.7
	238.0	33.27	102.5		299.5	33.21	102.7
	239.5	33.24	102.5		301.0	33.20	102.7
	241.0	33.22	102.5		302.5	33.17	102.7
	242.5	33.20	102.5		304.0	33.14	102.7
	244.0	33.19	102.5		305.5	33.12	102.7
	245.5	33.18	102.5		307.0	33.12	102.7
	247.0	33.17	102.5		308.5	33.13	102.7
	248.5	33.18	102.5		310.0	33.12	102.7
	250.0	33.19	102.5		311.5	33.13	102.7
	251.5	33.20	102.5		313.0	33.13	102.7
	253.0	33.20	102.5		314.5	33.12	102.7
	254.5	33.20	102.5		316.0	33.12	102.7
	256.0	33.18	102.5		317.5	33.12	102.7
	257.5	33.17	102.5		319.0	33.13	102.7
	259.0	33.18	102.6		320.5	33.13	102.7
	260.5	33.18	102.6		322.0	33.14	102.7
	262.0	33.19	102.6		323.5	33.16	102.7
	263.5	33.22	102.6		325.0	33.15	102.7
	265.0	33.22	102.6		326.5	33.14	102.8
	266.5	33.24	102.6		328.0	33.15	102.8
	268.0	33.25	102.6		329.5	33.15	102.8
	269.5	33.25	102.6		331.0	33.14	102.8
	271.0	33.25	102.6		332.5	33.15	102.8
	272.5	33.24	102.6		334.0	33.15	102.8
	274.0	33.22	102.6		335.5	33.13	102.8
	275.5	33.22	102.6		337.0	33.12	102.8
	277.0	33.21	102.6		338.5	33.12	102.8
	278.5	33.21	102.6		340.0	33.10	102.8
	280.0	33.20	102.6		341.5	33.14	102.8
	281.5	33.21	102.6		343.0	33.16	102.8

Printing every 3 samples

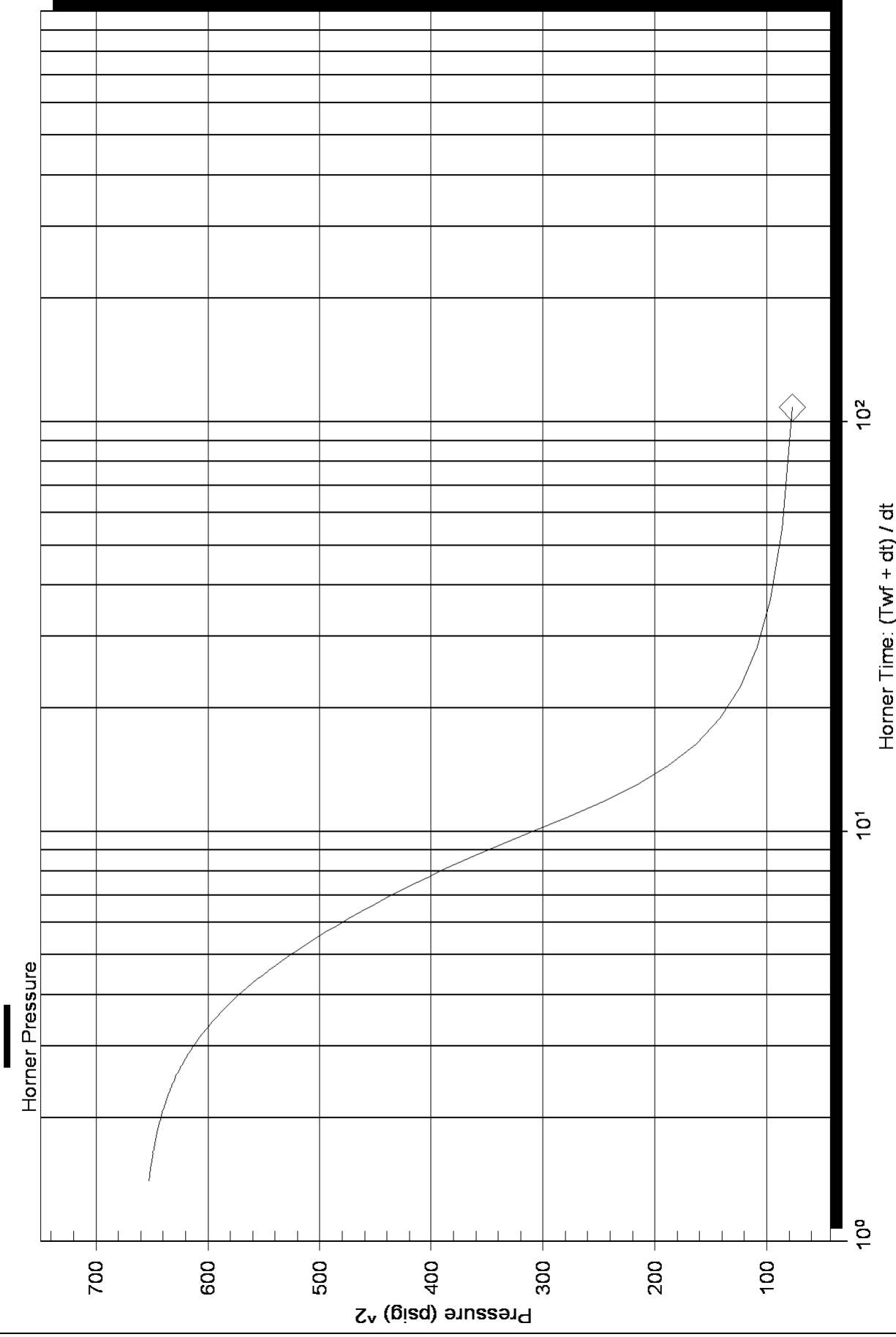
Serial # 8365				Serial # 8365			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	33.18	102.8		406.0	32.20	89.0
	346.0	33.23	102.8		407.5	32.21	89.1
	347.5	33.30	102.8		409.0	32.18	89.1
	349.0	33.30	102.8		410.5	32.16	89.1
	350.5	33.35	102.8		412.0	31.59	89.0
	352.0	33.37	102.8		413.5	29.38	89.0
	353.5	33.39	102.7		415.0	29.16	89.0
	355.0	34.00	102.7		416.5	19.67	88.8
	356.5	33.38	102.6		418.0	-0.92	85.4
	358.0	33.43	102.3		419.5	-0.80	79.2
	359.5	34.70	102.0		421.0	-0.82	74.6
	361.0	33.30	101.5		422.5	-0.83	71.8
	362.5	33.31	101.1		424.0	-0.84	71.3
	364.0	32.54	100.7		425.5	-0.84	69.8
	365.5	33.79	100.1		427.0	-0.83	68.7
	367.0	33.19	99.6		428.5	-0.83	68.1
	368.5	34.11	99.2		430.0	-0.82	67.8
	370.0	33.08	98.7		431.5	-0.82	67.5
	371.5	33.03	98.3		433.0	-0.82	67.5
	373.0	33.12	97.8		434.5	-0.81	67.5
	374.5	32.93	97.4		436.0	-0.80	67.7
	376.0	32.95	97.2		437.5	-0.77	67.8
	377.5	33.47	96.9		439.0	-0.76	67.9
	379.0	32.83	96.6		440.5	-0.74	68.0
	380.5	32.79	96.3		442.0	-0.70	68.2
	382.0	32.81	96.1		443.5	-0.68	68.3
	383.5	32.79	95.9		445.0	-0.65	68.4
	385.0	35.22	95.6		446.5	-0.66	68.5
	386.5	32.64	95.0		448.0	-0.66	68.5
	388.0	32.64	94.3		449.5	-0.59	68.5
	389.5	32.60	93.7		451.0	-0.62	68.5
	391.0	32.62	93.1		452.5	-0.76	68.5
	392.5	32.64	92.6		454.0	-0.68	70.0
	394.0	34.77	92.1		454.5	-0.63	70.0
	395.5	32.48	91.5				
	397.0	32.52	90.9				
	398.5	32.48	90.7				
	400.0	32.38	90.5				
	401.5	32.08	90.0				
	403.0	32.33	89.6				
	404.5	32.25	89.2				

Printing every 3 samples

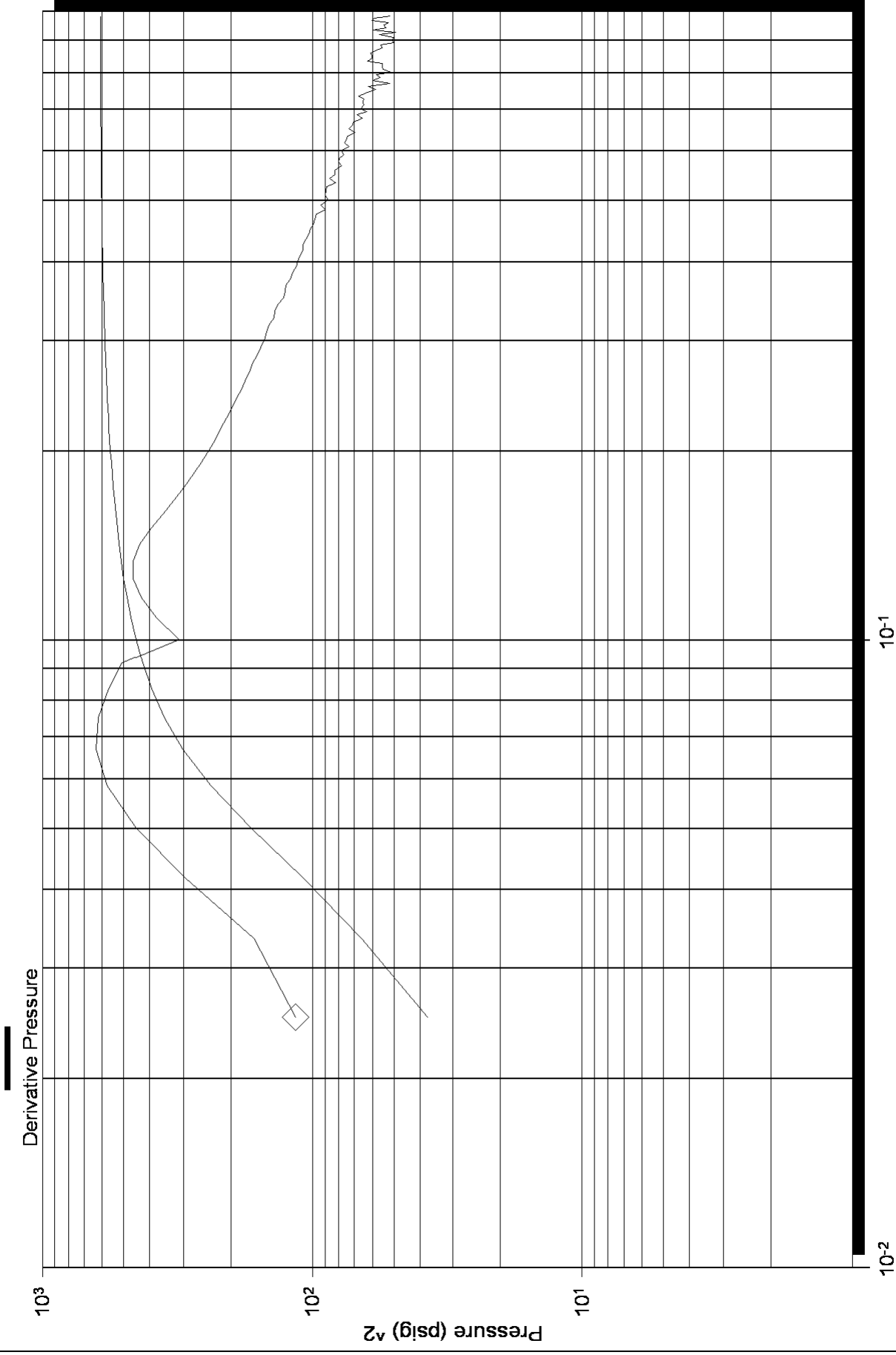
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

