



DRILL STEM TEST REPORT

Prepared For: **S.Gary Jr.& Assoc. inc.**

1515 Wynkoop
Suite 700
Denver Co. 80202

ATTN: Neil Sharp

7-16s-16w Rush KS

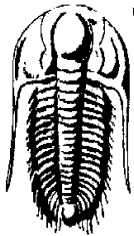
DLT 1-7

Start Date: 2011.02.20 @ 10:50:05

End Date: 2011.02.20 @ 18:03:50

Job Ticket #: 041552 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

S.Gary Jr. & Assoc. inc.

DLT 1-7

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

7-16s-16w Rush KS

Job Ticket: 041552 **DST#: 2**
Test Start: 2011.02.20 @ 10:50:05

GENERAL INFORMATION:

Formation: **LKC "F& upper G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:00:10
 Time Test Ended: 18:03:50
 Interval: **3285.00 ft (KB) To 3317.00 ft (KB) (TVD)**
 Total Depth: 3317.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1940.00 ft (KB)
 1930.00 ft (CF)
 KB to GR/CF: 10.00 ft

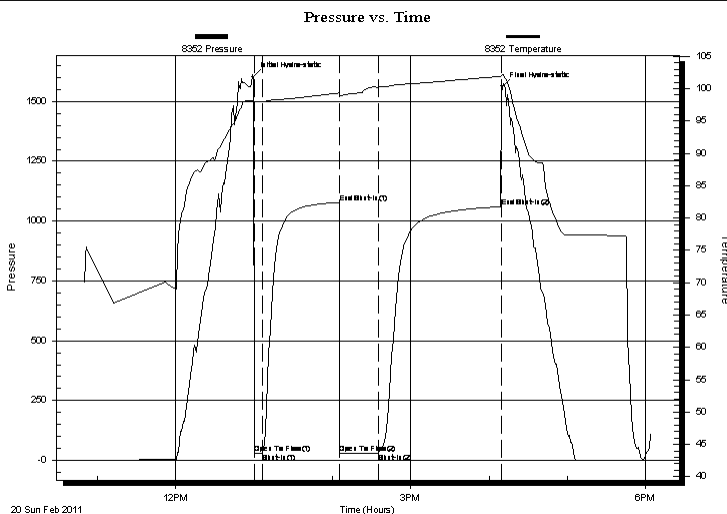
Serial #: 8352

Outside

Press @ Run Depth: 31.03 psig @ 3286.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.02.20 End Date: 2011.02.20 Last Calib.: 2011.02.20
 Start Time: 10:50:05 End Time: 18:03:50 Time On Btm: 2011.02.20 @ 12:59:10
 Time Off Btm: 2011.02.20 @ 16:10:09

TEST COMMENT: IF: Surface Blow
 IS: No Return
 FF: No Blow
 FS: No Return

PRESSURE SUMMARY



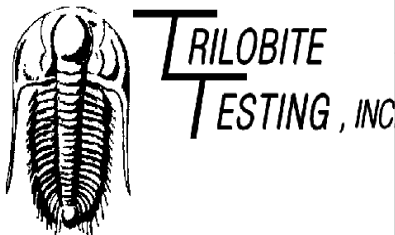
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.51	98.12	Initial Hydro-static
1	28.02	97.69	Open To Flow (1)
7	28.48	97.98	Shut-In(1)
66	1077.87	99.33	End Shut-In(1)
67	28.94	98.82	Open To Flow (2)
97	31.03	100.22	Shut-In(2)
190	1060.04	101.89	End Shut-In(2)
191	1562.49	102.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud w / slight oil specks in tool	0.35

Gas Rates

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



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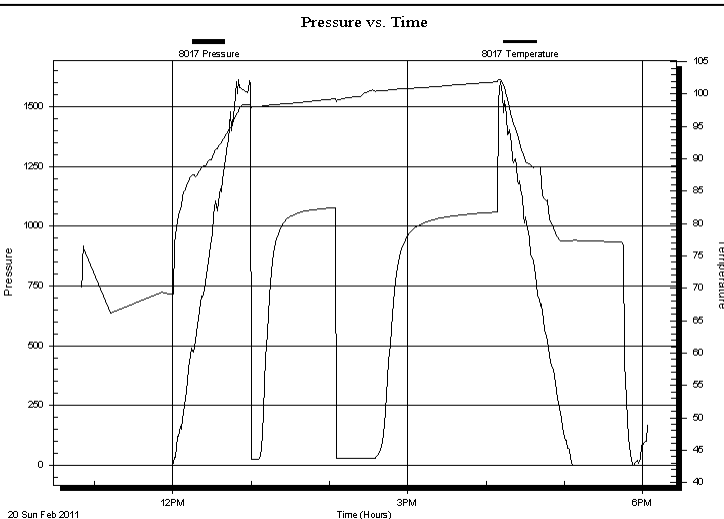
Job Ticket: 041552 **DST#: 2**
Test Start: 2011.02.20 @ 10:50:05

GENERAL INFORMATION:

Formation: **LKC "F& upper G"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
 Time Tool Opened: 13:00:10 Tester: Andy Carreira
 Time Test Ended: 18:03:50 Unit No: 39
Interval: 3285.00 ft (KB) To 3317.00 ft (KB) (TVD) Reference Elevations: 1940.00 ft (KB)
 Total Depth: 3317.00 ft (KB) (TVD) 1930.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8017 Inside
 Press @ Run Depth: psig @ 3286.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.02.20 End Date: 2011.02.20 Last Calib.: 2011.02.20
 Start Time: 10:50:05 End Time: 18:03:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Surface Blow
 IS: No Return
 FF: No Blow
 FS: No Return



PRESSURE SUMMARY

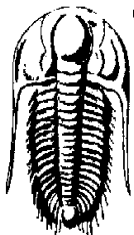
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud w / slight oil specks in tool	0.35

Gas Rates

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



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DLT 1-7

1515 Wynkoop
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7-16s-16w Rush KS

Job Ticket: 041552 **DST#: 2**
Test Start: 2011.02.20 @ 10:50:05

GENERAL INFORMATION:

Formation: **LKC "F& upper G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:10

Time Test Ended: 18:03:50

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3285.00 ft (KB) To 3317.00 ft (KB) (TVD)

Total Depth: 3317.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1940.00 ft (KB)

1930.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8650 Fluid

Press @ Run Depth: psig @ 3251.00 ft (KB)

Start Date: 2011.02.20

End Date: 2011.02.20

Start Time: 10:50:01

End Time: 18:02:00

Capacity: 8000.00 psig

Last Calib.: 2011.02.20

Time On Btm:

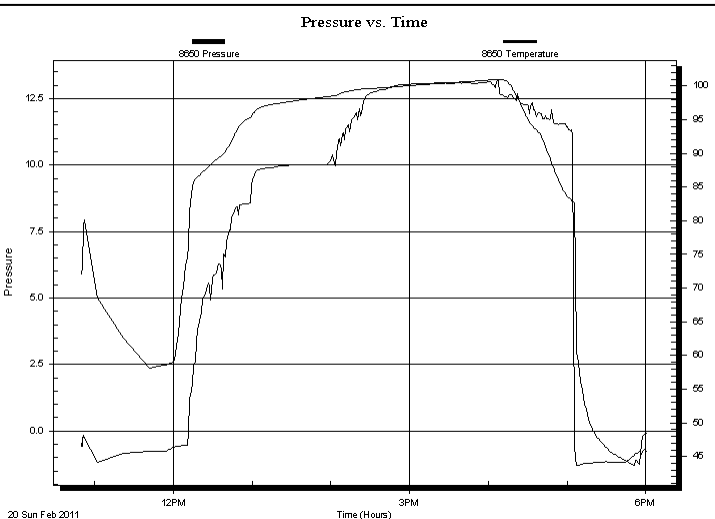
Time Off Btm:

TEST COMMENT: IF: Surface Blow

IS: No Return

FF: No Blow

FS: No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud w / slight oil specks in tool	0.35

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

S.Gary Jr.& Assoc. inc.

DLT 1-7

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

Tool Information

Drill Pipe:	Length: 3285.00 ft	Diameter: 3.80 inches	Volume: 46.08 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 46.08 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3285.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	66.00 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	8650	Fluid	3251.00	
Blank Spacing	5.00			3256.00	
Shut In Tool	5.00			3261.00	
Sampler	2.00			3263.00	
Hydraulic tool	5.00			3268.00	
Jars	5.00			3273.00	
Safety Joint	3.00			3276.00	
Packer	5.00			3281.00	34.00 Bottom Of Top Packer
Packer	4.00			3285.00	
Stubb	1.00			3286.00	
Recorder	0.00	8017	Inside	3286.00	
Recorder	0.00	8352	Outside	3286.00	
Perforations	28.00			3314.00	
Bullnose	3.00			3317.00	32.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

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DLT 1-7

1515 Wynkoop
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ATTN: Neil Sharp

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

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: 46.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud w / slight oil specks in tool	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

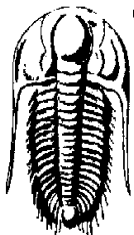
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data= 500ml mud



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GAS RATES

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7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

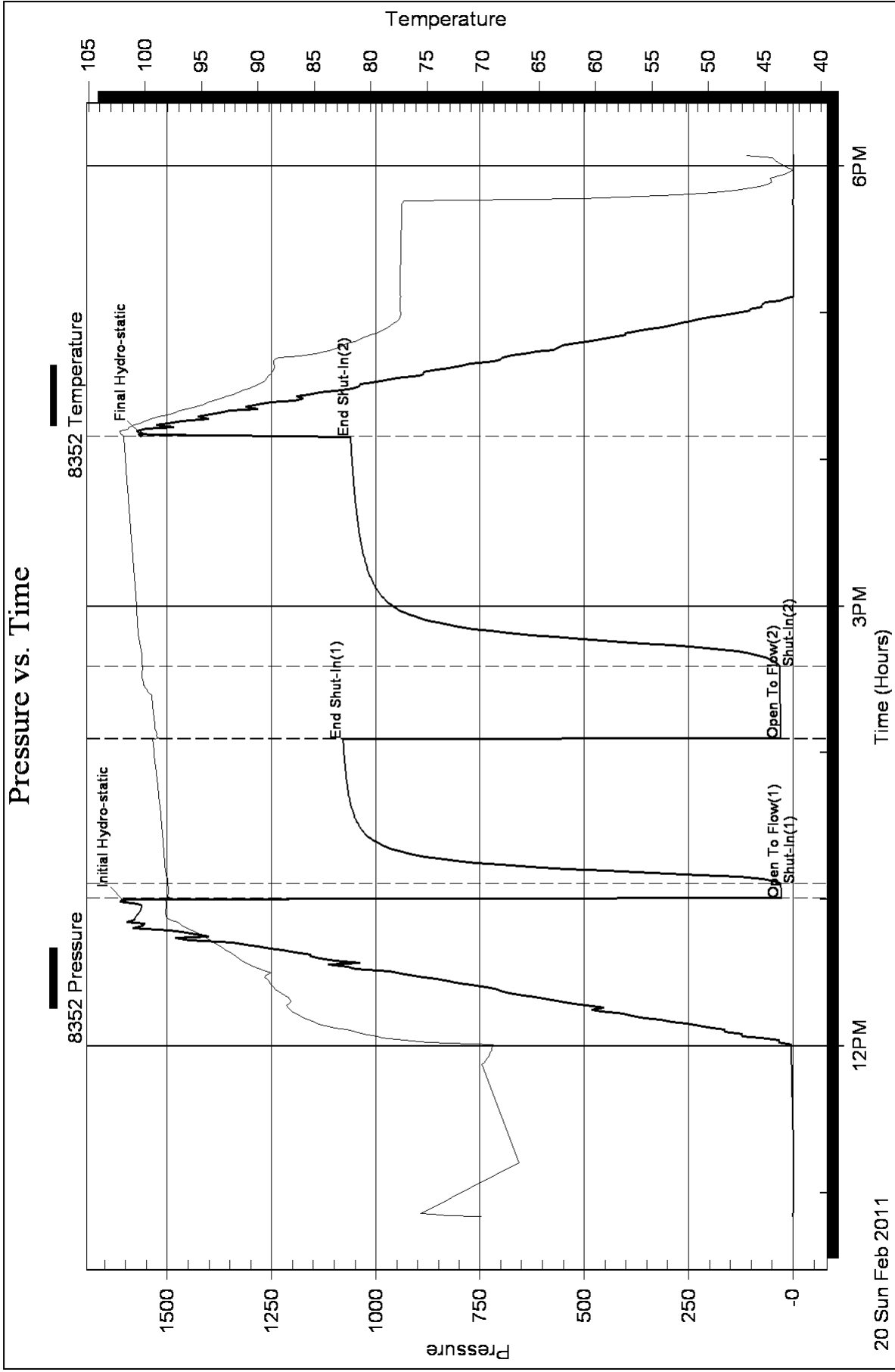
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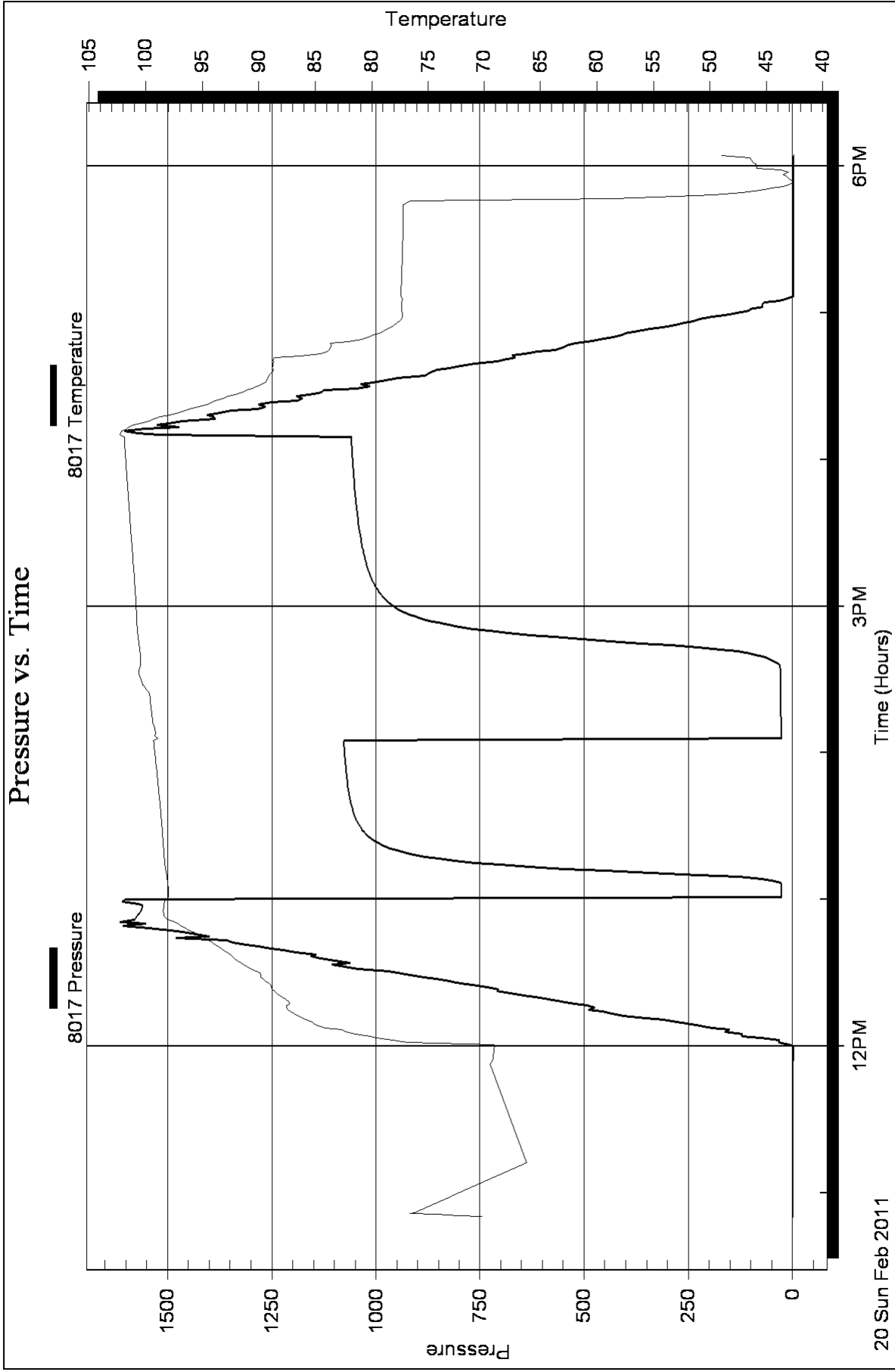
Gas Rates Information

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





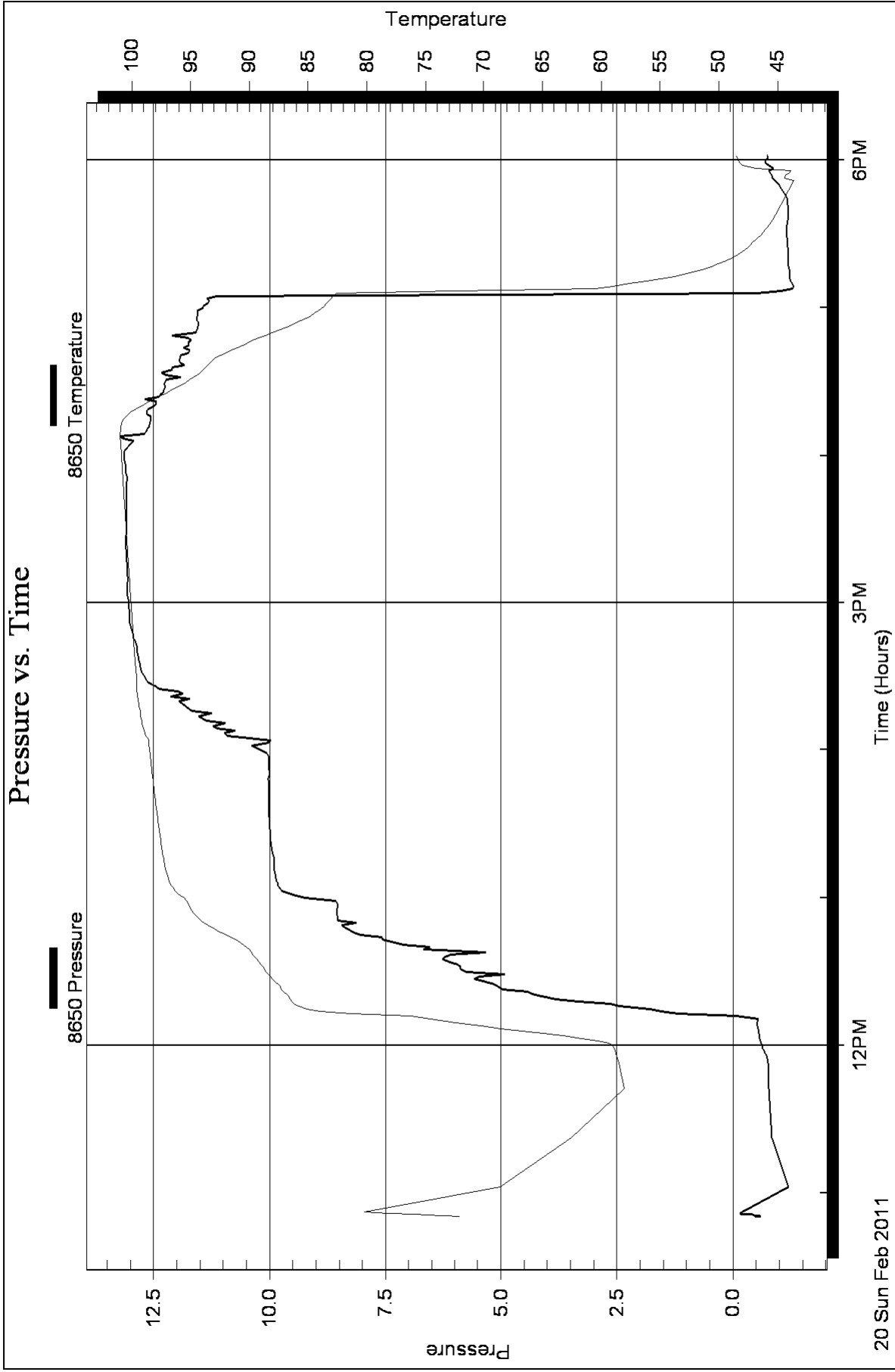
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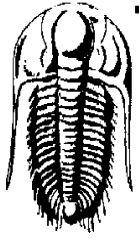
Fluid

S.Gary Jr. & Assoc. inc.

7-16s-16w Rush KS

DST Test Number: 2





**TRILOBITE
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DRILL STEM TESTING - DATA LISTING

S.Gary Jr.& Assoc. inc.

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Denver Co. 80202
ATTN: Neil Sharp

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.83	70.2		95.6	796.84	88.9
	0.6	-0.58	74.0		96.8	886.21	89.2
	1.2	-0.44	75.5		97.9	885.64	89.4
	1.8	-0.40	75.3		99.1	919.42	89.0
	51.9	4.73	78.1		100.3	996.69	89.2
	62.9	3.70	69.9		101.4	1007.02	89.9
	64.1	3.65	69.7		102.6	1038.98	90.6
	65.3	3.61	69.5		103.8	1038.53	91.1
	66.4	3.57	69.4		104.9	1186.95	91.5
	67.6	3.54	69.3		106.1	1236.86	91.9
	68.8	3.52	69.2		107.3	1229.93	92.3
	69.9	3.49	69.1		108.4	1224.01	92.6
	71.1	34.57	74.0		109.6	1253.88	93.1
	72.3	38.73	77.3		110.8	1282.64	93.4
	73.4	77.65	79.3		111.9	1417.97	93.9
	74.6	121.84	80.6		113.1	1374.39	94.2
	75.8	163.71	81.7		114.3	1402.24	94.7
	76.9	194.38	82.8		115.4	1432.74	95.1
	78.1	224.21	84.2		116.6	1463.73	95.7
	79.3	256.93	84.9		117.8	1531.42	96.2
	80.4	317.37	85.5		118.9	1600.35	96.7
	81.6	345.56	86.1		120.1	1613.88	97.0
	82.8	374.44	86.5		121.3	1579.39	97.8
	83.9	442.30	87.0		122.4	1575.27	98.1
	85.1	465.47	87.2		123.6	1570.56	98.2
	86.3	494.89	87.4		124.8	1565.99	98.2
	87.4	589.45	87.2		125.9	1562.71	98.2
	88.6	587.85	87.1		127.1	1560.14	98.1
	89.8	605.72	87.4		128.3	1568.78	98.1
	90.9	704.44	87.8		128.8	1612.64	98.1
	92.1	699.01	88.2		128.9	1604.94	98.1
	93.3	779.12	88.6	Initial Hydro-static	129.1	1603.51	98.1
	94.4	771.39	88.7		129.3	1604.07	98.2

Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	129.4	1603.27	98.2		164.6	1053.89	98.6
	129.6	1602.27	98.2		165.8	1056.02	98.6
	129.8	1601.40	98.3		166.9	1058.15	98.7
	129.9	1610.57	98.3		168.1	1059.79	98.7
Open To Flow (1)	130.1	28.02	97.7		169.3	1061.45	98.7
	130.3	28.18	97.9		170.4	1062.97	98.7
	130.4	28.24	98.0		171.6	1064.33	98.8
	130.6	28.21	98.0		172.8	1065.45	98.8
	131.8	27.75	98.0		173.9	1066.48	98.8
	132.9	27.66	98.0		175.1	1067.59	98.9
	134.1	28.41	98.0		176.3	1068.58	98.9
	135.3	28.52	98.0		177.4	1069.56	98.9
	135.8	28.53	98.0		178.6	1070.33	98.9
	135.9	28.54	98.0		179.8	1071.00	99.0
Shut-In(1)	136.1	28.48	98.0		180.9	1071.77	99.0
	136.3	29.79	98.0		182.1	1072.54	99.0
	136.4	32.26	98.0		183.3	1073.20	99.0
	136.6	35.08	98.0		184.4	1073.69	99.1
	137.8	65.73	98.0		185.6	1074.29	99.1
	138.9	143.92	98.1		186.8	1074.81	99.1
	140.1	290.51	98.1		187.9	1075.38	99.2
	141.3	445.56	98.2		189.1	1075.77	99.2
	142.4	579.11	98.2		190.3	1076.27	99.2
	143.6	686.61	98.3		191.4	1076.71	99.2
	144.8	770.45	98.3		192.6	1077.51	99.3
	145.9	834.12	98.3		193.8	1077.71	99.3
	147.1	882.22	98.3		194.8	1077.84	99.3
	148.3	919.03	98.3		194.9	1077.87	99.3
	149.4	947.10	98.3	End Shut-In(1)	195.1	1077.87	99.3
	150.6	968.78	98.4		195.3	1037.37	99.3
	151.8	985.79	98.4	Open To Flow (2)	195.4	28.94	98.8
	152.9	999.27	98.4		195.6	29.05	99.0
	154.1	1009.97	98.4		196.8	29.10	99.0
	155.3	1018.74	98.4		197.9	29.11	99.0
	156.4	1026.05	98.5		199.1	29.15	99.1
	157.6	1032.07	98.5		200.3	29.19	99.1
	158.8	1037.12	98.5		201.4	29.27	99.2
	159.9	1041.53	98.5		202.6	29.39	99.2
	161.1	1045.55	98.5		203.8	29.51	99.2
	162.3	1048.54	98.6		204.9	29.64	99.2
	163.4	1051.41	98.6		206.1	29.72	99.3

Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	207.3	29.77	99.3		249.1	953.46	100.8
	208.4	29.91	99.3		250.3	963.55	100.8
	209.6	30.00	99.3		251.4	972.09	100.8
	210.8	30.06	99.4		252.6	979.42	100.8
	211.9	30.17	99.4		253.8	985.70	100.8
	213.1	30.33	99.4		254.9	991.21	100.8
	214.3	30.41	99.7		256.1	996.15	100.9
	215.4	30.46	99.8		257.3	1000.52	100.9
	216.6	30.67	100.0		258.4	1004.65	100.9
	217.8	30.75	100.1		259.6	1007.86	100.9
	218.9	30.65	100.2		260.8	1010.99	100.9
	220.1	30.74	100.2		261.9	1013.94	100.9
	221.3	30.95	100.3		263.1	1016.56	101.0
	222.4	31.10	100.3		264.3	1019.01	101.0
	223.6	31.19	100.2		265.4	1021.36	101.0
	224.8	31.25	100.2		266.6	1023.43	101.0
	224.9	31.23	100.2		267.8	1025.27	101.0
	225.1	31.18	100.2		268.9	1027.14	101.1
Shut-In(2)	225.3	31.03	100.2		270.1	1028.87	101.1
	225.4	32.03	100.2		271.3	1030.48	101.1
	225.6	33.22	100.2		272.4	1031.95	101.1
	225.8	34.36	100.2		273.6	1033.39	101.1
	226.9	44.01	100.3		274.8	1034.91	101.2
	228.1	56.87	100.3		275.9	1036.04	101.2
	229.3	75.18	100.3		277.1	1037.27	101.2
	230.4	102.78	100.3		278.3	1038.33	101.2
	231.6	146.45	100.3		279.4	1039.44	101.2
	232.8	213.48	100.4		280.6	1040.53	101.3
	233.9	303.67	100.4		281.8	1041.50	101.3
	235.1	404.89	100.5		282.9	1042.49	101.3
	236.3	503.92	100.5		284.1	1043.34	101.3
	237.4	593.11	100.6		285.3	1044.36	101.3
	238.6	669.81	100.6		286.4	1045.19	101.4
	239.8	733.60	100.6		287.6	1045.97	101.4
	240.9	785.40	100.6		288.8	1046.68	101.4
	242.1	827.23	100.7		289.9	1047.46	101.4
	243.3	860.64	100.7		291.1	1048.07	101.4
	244.4	887.63	100.7		292.3	1048.86	101.5
	245.6	909.33	100.7		293.4	1049.57	101.5
	246.8	927.08	100.7		294.6	1050.14	101.5
	247.9	941.49	100.7		295.8	1050.83	101.5

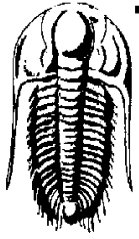
Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	296.9	1051.42	101.5		333.4	1252.34	94.1
	298.1	1052.07	101.6		334.6	1173.62	93.3
	299.3	1052.60	101.6		335.8	1135.64	92.6
	300.4	1053.19	101.6		336.9	1118.65	91.9
	301.6	1053.68	101.6		338.1	1100.18	91.1
	302.8	1054.24	101.6		339.3	1070.83	90.5
	303.9	1054.61	101.7		340.4	1038.76	89.9
	305.1	1055.22	101.7		341.6	979.51	89.5
	306.3	1055.63	101.7		342.8	931.46	89.2
	307.4	1056.13	101.7		343.9	918.90	89.0
	308.6	1056.53	101.7		345.1	887.66	88.8
	309.8	1057.04	101.7		346.3	855.83	88.6
	310.9	1057.45	101.8		347.4	789.71	88.5
	312.1	1057.89	101.8		348.6	754.32	88.6
	313.3	1058.24	101.8		349.8	734.27	88.6
	314.4	1058.61	101.8		350.9	704.65	88.4
	315.6	1059.04	101.8		352.1	673.62	86.3
	316.8	1059.38	101.9		353.3	613.77	84.6
	317.9	1059.89	101.9		354.4	583.09	83.6
	318.8	1060.02	101.9		355.6	542.54	82.8
	318.9	1060.04	101.9		356.8	522.81	82.3
End Shut-In(2)	319.1	1060.04	101.9		357.9	492.45	81.4
	319.3	1324.82	101.8		359.1	462.04	80.8
	319.4	1532.42	102.0		360.3	409.22	80.1
	319.6	1533.28	102.0		361.4	382.68	79.5
	319.8	1522.42	102.1		362.6	349.14	79.0
	319.9	1512.32	102.1		363.8	313.76	78.4
Final Hydro-static	320.1	1562.49	102.2		364.9	283.63	78.0
	320.3	1559.87	102.2		366.1	253.73	77.7
	320.4	1563.66	102.2		367.3	211.15	77.5
	320.6	1570.29	102.2		368.4	160.12	77.4
	321.8	1550.09	101.7		369.6	134.20	77.3
	322.9	1484.09	101.4		370.8	104.12	77.4
	324.1	1455.91	100.9		371.9	73.95	77.4
	325.3	1411.39	100.2		373.1	73.78	77.4
	326.4	1434.26	99.3		374.3	32.52	77.5
	327.6	1409.35	98.4		375.4	18.85	77.4
	328.8	1376.03	97.4		376.6	-1.24	77.4
	329.9	1345.45	96.5		377.8	-1.26	77.4
	331.1	1313.65	95.6		378.9	-1.23	77.4
	332.3	1282.46	94.7		380.1	-1.23	77.4

Printing every 7 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	381.3	-1.25	77.4		429.1	-1.12	43.0
	382.4	-1.27	77.4		430.3	-1.16	43.6
	383.6	-1.25	77.4		431.4	-1.31	43.9
	384.8	-1.26	77.4		432.6	-1.24	44.3
	385.9	-1.28	77.4		433.8	-1.52	46.7
	387.1	-1.27	77.4				
	388.3	-1.26	77.4				
	389.4	-1.29	77.4				
	390.6	-1.32	77.4				
	391.8	-1.31	77.4				
	392.9	-1.28	77.3				
	394.1	-1.27	77.3				
	395.3	-1.26	77.3				
	396.4	-1.26	77.3				
	397.6	-1.28	77.3				
	398.8	-1.30	77.3				
	399.9	-1.29	77.3				
	401.1	-1.26	77.3				
	402.3	-1.26	77.3				
	403.4	-1.24	77.3				
	404.6	-1.21	77.3				
	405.8	-1.19	77.3				
	406.9	-1.17	77.3				
	408.1	-1.16	77.3				
	409.3	-1.14	77.3				
	410.4	-1.13	77.3				
	411.6	-1.09	77.3				
	412.8	-1.03	77.3				
	413.9	-0.91	77.2				
	415.1	-0.79	77.2				
	416.3	-0.43	61.3				
	417.4	-1.38	54.6				
	418.6	-1.45	50.1				
	419.8	-1.35	47.3				
	420.9	-1.25	45.8				
	422.1	-1.20	44.8				
	423.3	-1.15	44.1				
	424.4	-1.11	44.6				
	425.6	-1.09	43.7				
	426.8	-1.09	43.1				
	427.9	-1.10	42.5				

Printing every 6 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

S.Gary Jr.& Assoc. inc.

DLT 1-7

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.82	70.2		90.1	645.92	88.0
	0.5	-1.66	72.6		91.1	678.65	88.3
	1.0	-1.32	75.6		92.1	708.12	88.6
	1.5	-1.46	76.4		93.1	744.75	88.8
	11.9	-1.22	75.6		94.1	795.53	88.9
	62.1	-1.92	69.4		95.1	836.94	89.0
	63.1	-1.98	69.3		96.1	825.19	89.3
	64.1	-2.00	69.2		97.1	854.86	89.6
	65.1	-2.01	69.2		98.1	884.06	89.8
	66.1	-2.02	69.2		99.1	917.97	89.8
	67.1	-2.00	69.1		100.1	918.20	90.1
	68.1	-2.01	69.1		101.1	1031.72	90.6
	69.1	-2.01	69.1		102.1	1075.28	91.0
	70.1	-2.03	69.1		103.1	1067.53	91.3
	71.1	32.74	76.3		104.1	1098.24	91.6
	72.1	31.11	78.2		105.1	1134.16	92.0
	73.1	76.73	79.6		106.1	1141.25	92.3
	74.1	120.32	81.1		107.1	1144.06	92.5
	75.1	163.08	81.7		108.1	1287.29	92.8
	76.1	161.84	82.6		109.1	1292.53	93.1
	77.1	192.75	84.1		110.1	1346.77	93.5
	78.1	222.66	84.8		111.1	1312.74	93.8
	79.1	252.66	85.2		112.1	1342.71	94.1
	80.1	283.50	85.7		113.1	1373.02	94.5
	81.1	326.91	86.1		114.1	1401.47	94.9
	82.1	405.60	86.5		115.1	1432.95	95.2
	83.1	404.84	86.8		116.1	1464.04	95.7
	84.1	433.98	87.3		117.1	1493.57	96.2
	85.1	463.34	87.4		118.1	1531.59	96.6
	86.1	493.77	87.5		119.1	1574.23	97.0
	87.1	523.54	87.3		120.1	1605.00	97.2
	88.1	591.46	87.4		121.1	1578.87	97.9
	89.1	637.43	87.7		122.1	1575.85	98.2

Printing every 6 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	123.1	1571.65	98.4		164.1	1051.76	98.6
	124.1	1567.73	98.4		165.1	1053.79	98.7
	125.1	1564.09	98.4		166.1	1055.64	98.7
	126.1	1561.75	98.4		167.1	1057.32	98.7
	127.1	1559.25	98.4		168.1	1058.77	98.7
	128.1	1568.76	98.4		169.1	1060.22	98.7
	129.1	1604.42	98.3		170.1	1061.42	98.8
	130.1	25.68	97.7		171.1	1062.58	98.8
	131.1	25.45	98.0		172.1	1063.79	98.8
	132.1	25.60	98.0		173.1	1064.71	98.8
	133.1	25.41	98.0		174.1	1065.56	98.8
	134.1	26.14	98.0		175.1	1066.52	98.9
	135.1	26.23	98.0		176.1	1067.34	98.9
	136.1	26.08	98.1		177.1	1068.21	98.9
	137.1	43.57	98.1		178.1	1068.88	98.9
	138.1	81.07	98.1		179.1	1069.50	99.0
	139.1	164.37	98.1		180.1	1070.15	99.0
	140.1	294.68	98.2		181.1	1070.74	99.0
	141.1	428.35	98.2		182.1	1071.39	99.0
	142.1	546.83	98.2		183.1	1072.00	99.0
	143.1	645.91	98.3		184.1	1072.48	99.1
	144.1	727.08	98.3		185.1	1073.00	99.1
	145.1	791.69	98.3		186.1	1073.32	99.1
	146.1	842.53	98.3		187.1	1073.99	99.1
	147.1	882.54	98.4		188.1	1074.38	99.2
	148.1	914.36	98.4		189.1	1074.76	99.2
	149.1	939.55	98.4		190.1	1075.07	99.2
	150.1	959.70	98.4		191.1	1075.44	99.2
	151.1	976.03	98.4		192.1	1075.94	99.2
	152.1	989.30	98.4		193.1	1076.21	99.3
	153.1	1000.11	98.5		194.1	1076.67	99.3
	154.1	1009.22	98.5		195.1	1076.84	99.3
	155.1	1016.71	98.5		196.1	26.96	99.2
	156.1	1023.18	98.5		197.1	26.74	99.1
	157.1	1028.56	98.5		198.1	26.82	99.1
	158.1	1033.31	98.5		199.1	26.84	99.2
	159.1	1037.46	98.6		200.1	26.86	99.3
	160.1	1041.00	98.6		201.1	26.96	99.3
	161.1	1044.41	98.6		202.1	27.04	99.4
	162.1	1047.10	98.6		203.1	27.15	99.4
	163.1	1049.54	98.6		204.1	27.28	99.4

Printing every 6 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	205.1	27.42	99.5		246.1	916.95	100.8
	206.1	27.49	99.5		247.1	930.84	100.8
	207.1	27.52	99.5		248.1	942.61	100.8
	208.1	27.63	99.5		249.1	952.72	100.9
	209.1	27.75	99.6		250.1	961.47	100.9
	210.1	27.85	99.6		251.1	968.97	100.9
	211.1	27.93	99.6		252.1	975.65	100.9
	212.1	28.14	99.6		253.1	981.32	100.9
	213.1	28.24	99.7		254.1	986.38	100.9
	214.1	28.25	99.7		255.1	991.08	100.9
	215.1	28.22	99.9		256.1	995.25	100.9
	216.1	28.32	100.0		257.1	998.93	100.9
	217.1	28.15	100.2		258.1	1002.64	101.0
	218.1	28.45	100.3		259.1	1005.64	101.0
	219.1	28.30	100.4		260.1	1008.54	101.0
	220.1	28.42	100.4		261.1	1010.88	101.0
	221.1	28.27	100.5		262.1	1013.28	101.0
	222.1	28.80	100.6		263.1	1015.52	101.0
	223.1	28.93	100.6		264.1	1017.72	101.1
	224.1	29.01	100.6		265.1	1019.67	101.1
	225.1	28.88	100.5		266.1	1021.51	101.1
	226.1	34.81	100.5		267.1	1023.16	101.1
	227.1	43.56	100.5		268.1	1024.87	101.1
	228.1	54.97	100.5		269.1	1026.27	101.1
	229.1	70.55	100.5		270.1	1027.79	101.1
	230.1	92.78	100.5		271.1	1029.22	101.2
	231.1	124.86	100.5		272.1	1030.48	101.2
	232.1	172.46	100.5		273.1	1031.67	101.2
	233.1	238.43	100.6		274.1	1032.98	101.2
	234.1	319.65	100.6		275.1	1034.16	101.2
	235.1	407.14	100.6		276.1	1035.16	101.2
	236.1	492.18	100.6		277.1	1036.06	101.3
	237.1	570.48	100.7		278.1	1037.15	101.3
	238.1	640.03	100.7		279.1	1038.05	101.3
	239.1	699.64	100.7		280.1	1038.97	101.3
	240.1	750.23	100.7		281.1	1039.98	101.3
	241.1	792.36	100.8		282.1	1040.67	101.3
	242.1	827.38	100.8		283.1	1041.44	101.4
	243.1	856.35	100.8		284.1	1042.26	101.4
	244.1	880.34	100.8		285.1	1043.09	101.4
	245.1	900.26	100.8		286.1	1043.86	101.4

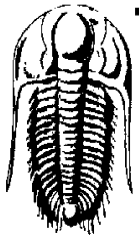
Printing every 6 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	287.1	1044.52	101.4		328.1	1403.74	97.9
	288.1	1045.21	101.4		329.1	1372.71	97.0
	289.1	1045.77	101.5		330.1	1343.16	96.3
	290.1	1046.41	101.5		331.1	1312.38	95.4
	291.1	1047.05	101.5		332.1	1282.34	94.6
	292.1	1047.63	101.5		333.1	1253.33	94.1
	293.1	1048.30	101.5		334.1	1222.37	93.4
	294.1	1048.76	101.5		335.1	1192.65	92.8
	295.1	1049.36	101.5		336.1	1161.39	92.1
	296.1	1049.83	101.6		337.1	1131.68	91.5
	297.1	1050.58	101.6		338.1	1100.42	90.9
	298.1	1050.97	101.6		339.1	1070.31	90.3
	299.1	1051.39	101.6		340.1	1039.41	89.8
	300.1	1051.87	101.6		341.1	1008.92	89.5
	301.1	1052.26	101.6		342.1	977.69	89.3
	302.1	1052.71	101.7		343.1	947.43	89.2
	303.1	1053.20	101.7		344.1	916.76	89.0
	304.1	1053.66	101.7		345.1	886.10	88.9
	305.1	1053.97	101.7		346.1	855.14	88.7
	306.1	1054.41	101.7		347.1	824.82	88.8
	307.1	1054.85	101.7		348.1	794.26	88.7
	308.1	1055.19	101.7		349.1	763.46	88.7
	309.1	1055.64	101.8		350.1	732.87	88.7
	310.1	1056.04	101.8		351.1	702.16	88.7
	311.1	1056.35	101.8		352.1	671.91	86.3
	312.1	1056.73	101.8		353.1	641.12	84.4
	313.1	1057.05	101.8		354.1	611.39	83.7
	314.1	1057.31	101.8		355.1	581.27	83.7
	315.1	1057.74	101.9		356.1	550.79	83.7
	316.1	1058.01	101.9		357.1	520.66	83.6
	317.1	1058.62	101.9		358.1	490.62	82.0
	318.1	1058.76	101.9		359.1	460.45	80.7
	319.1	1058.95	101.9		360.1	417.72	80.0
	320.1	1561.04	102.2		361.1	401.09	79.4
	321.1	1493.35	102.2		362.1	371.13	79.0
	322.1	1553.18	101.7		363.1	341.48	78.5
	323.1	1531.81	101.4		364.1	311.97	78.2
	324.1	1450.92	100.9		365.1	281.98	77.8
	325.1	1421.23	100.2		366.1	252.16	77.6
	326.1	1401.11	99.5		367.1	222.18	77.4
	327.1	1388.35	98.7		368.1	192.26	77.3

Printing every 6 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	369.1	153.53	77.3		410.1	-2.33	77.2
	370.1	126.20	77.3		411.1	-2.35	77.2
	371.1	102.42	77.3		412.1	-2.35	77.2
	372.1	72.42	77.4		413.1	-2.34	77.2
	373.1	72.02	77.4		414.1	-2.28	77.1
	374.1	31.53	77.4		415.1	-2.16	76.8
	375.1	31.36	77.3		416.1	-2.19	60.7
	376.1	-2.35	77.3		417.1	-2.40	53.0
	377.1	-2.35	77.4		418.1	-2.48	49.1
	378.1	-2.37	77.4		419.1	-2.51	46.5
	379.1	-2.39	77.4		420.1	-2.53	44.9
	380.1	-2.37	77.4		421.1	-2.55	43.7
	381.1	-2.38	77.4		422.1	-2.50	42.9
	382.1	-2.37	77.4		423.1	-2.44	42.5
	383.1	-2.36	77.4		424.1	-2.40	43.1
	384.1	-2.35	77.4		425.1	-2.39	43.1
	385.1	-2.38	77.3		426.1	-2.35	43.6
	386.1	-2.39	77.3		427.1	-2.35	43.0
	387.1	-2.37	77.3		428.1	-2.36	44.3
	388.1	-2.34	77.3		429.1	-2.31	45.8
	389.1	-2.34	77.3		430.1	-2.27	45.9
	390.1	-2.36	77.3		431.1	-2.25	46.1
	391.1	-2.36	77.3		432.1	-2.24	46.3
	392.1	-2.37	77.3		433.1	-2.21	46.5
	393.1	-2.39	77.3		433.8	-2.40	49.0
	394.1	-2.37	77.3				
	395.1	-2.36	77.3				
	396.1	-2.35	77.3				
	397.1	-2.36	77.3				
	398.1	-2.36	77.3				
	399.1	-2.34	77.3				
	400.1	-2.34	77.2				
	401.1	-2.36	77.2				
	402.1	-2.38	77.2				
	403.1	-2.40	77.2				
	404.1	-2.38	77.2				
	405.1	-2.35	77.2				
	406.1	-2.32	77.2				
	407.1	-2.30	77.2				
	408.1	-2.30	77.2				
	409.1	-2.32	77.2				

Printing every 3 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

S.Gary Jr.& Assoc. inc.

DLT 1-7

1515 Wynkoop
Suite 700
Denver Co. 80202
ATTN: Neil Sharp

7-16s-16w Rush KS

Job Ticket: 041552

DST#: 2

Test Start: 2011.02.20 @ 10:50:05

Serial # 8650 Fluid				Serial # 8650 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.47	72.1		1.6	-0.19	79.3
	0.1	-0.55	72.2		1.7	-0.19	79.4
	0.1	-0.56	72.3		1.8	-0.19	79.5
	0.2	-0.57	72.4		1.8	-0.19	79.6
	0.2	-0.60	72.5		1.9	-0.20	79.7
	0.3	-0.59	72.7		1.9	-0.20	79.9
	0.3	-0.58	72.8		2.0	-0.21	80.1
	0.3	-0.56	73.0		12.0	-1.19	68.6
	0.4	-0.54	73.1		42.0	-0.76	59.6
	0.4	-0.51	73.3		62.5	-0.76	58.5
	0.5	-0.49	73.6		64.0	-0.75	58.6
	0.6	-0.47	73.9		65.5	-0.72	58.7
	0.6	-0.48	74.3		67.0	-0.68	58.8
	0.6	-0.48	74.7		68.5	-0.65	58.9
	0.7	-0.47	75.0		70.0	-0.62	59.0
	0.8	-0.47	75.2		71.5	-0.59	60.3
	0.8	-0.45	75.4		73.0	-0.58	62.4
	0.9	-0.40	75.5		74.5	-0.56	64.9
	0.9	-0.34	75.6		76.0	-0.55	67.6
	0.9	-0.29	75.8		77.5	-0.53	70.2
	1.0	-0.24	76.1		79.0	-0.52	72.6
	1.0	-0.21	76.4		80.5	-0.54	74.6
	1.1	-0.18	76.7		82.0	-0.09	79.1
	1.1	-0.16	77.0		83.5	1.54	83.9
	1.2	-0.17	77.3		85.0	2.24	85.5
	1.3	-0.15	77.6		86.5	2.64	86.2
	1.3	-0.15	77.8		88.0	3.54	86.4
	1.4	-0.15	78.1		89.5	4.12	86.7
	1.4	-0.15	78.3		91.0	4.45	87.0
	1.5	-0.15	78.5		92.5	4.97	87.3
	1.5	-0.16	78.7		94.0	5.10	87.5
	1.5	-0.16	78.9		95.5	5.32	87.8
	1.6	-0.18	79.1		97.0	5.54	88.1

Printing every 3 samples

Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	98.5	4.91	88.4		160.0	9.99	97.7
	100.0	5.81	88.6		161.5	10.00	97.8
	101.5	5.86	88.8		163.0	10.01	97.8
	103.0	6.00	89.1		164.5	10.01	97.9
	104.5	6.27	89.3		166.0	10.01	97.9
	106.0	6.14	89.6		167.5	10.02	97.9
	107.5	5.33	89.8		169.0	10.02	98.0
	109.0	6.57	90.1		170.5	10.01	98.0
	110.5	7.12	90.5		172.0	10.01	98.1
	112.0	6.78	90.9		173.5	10.01	98.1
	113.5	7.58	91.5		175.0	10.01	98.1
	115.0	8.10	92.1		176.5	10.01	98.2
	116.5	8.26	92.7		178.0	10.02	98.2
	118.0	8.41	93.3		179.5	10.01	98.2
	119.5	8.14	93.8		181.0	10.01	98.3
	121.0	8.51	94.3		182.5	10.01	98.3
	122.5	8.53	94.6		184.0	10.01	98.4
	124.0	8.53	94.8		185.5	10.01	98.4
	125.5	8.54	95.0		187.0	10.02	98.4
	127.0	8.52	95.2		188.5	10.08	98.5
	128.5	8.57	95.3		190.0	10.22	98.5
	130.0	9.40	95.7		191.5	10.39	98.5
	131.5	9.59	96.1		193.0	10.00	98.6
	133.0	9.76	96.4		194.5	10.44	98.6
	134.5	9.81	96.6		196.0	10.95	98.8
	136.0	9.82	96.8		197.5	10.74	98.9
	137.5	9.86	96.9		199.0	11.17	99.0
	139.0	9.87	97.0		200.5	10.96	99.1
	140.5	9.89	97.1		202.0	11.41	99.2
	142.0	9.89	97.2		203.5	11.53	99.2
	143.5	9.89	97.2		205.0	11.64	99.3
	145.0	9.89	97.3		206.5	11.73	99.3
	146.5	9.91	97.3		208.0	11.54	99.4
	148.0	9.93	97.4		209.5	11.96	99.4
	149.5	9.95	97.4		211.0	12.09	99.5
	151.0	9.96	97.5		212.5	11.87	99.5
	152.5	9.97	97.5		214.0	12.34	99.5
	154.0	9.97	97.6		215.5	12.44	99.6
	155.5	9.98	97.6		217.0	12.25	99.6
	157.0	9.99	97.6		218.5	12.65	99.6
	158.5	10.00	97.7		220.0	12.70	99.6

Printing every 3 samples

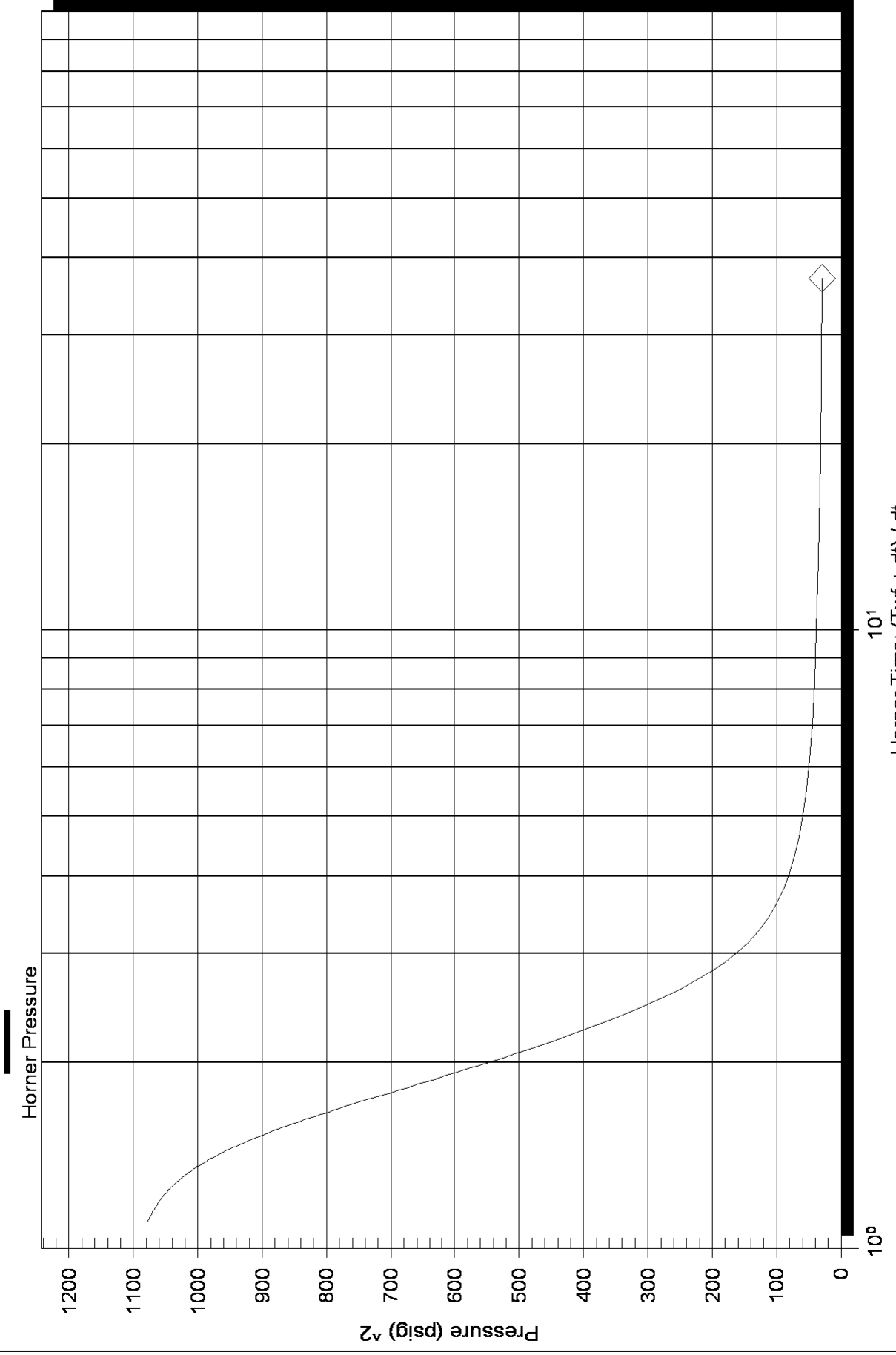
Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	221.5	12.74	99.6		283.0	13.07	100.5
	223.0	12.78	99.7		284.5	13.08	100.5
	224.5	12.77	99.7		286.0	13.09	100.6
	226.0	12.80	99.7		287.5	13.09	100.6
	227.5	12.82	99.7		289.0	13.08	100.6
	229.0	12.84	99.8		290.5	13.08	100.6
	230.5	12.84	99.8		292.0	13.08	100.6
	232.0	12.85	99.8		293.5	13.09	100.7
	233.5	12.88	99.8		295.0	13.08	100.7
	235.0	12.91	99.8		296.5	13.08	100.7
	236.5	12.93	99.9		298.0	13.08	100.7
	238.0	12.96	99.9		299.5	13.07	100.7
	239.5	12.98	99.9		301.0	13.08	100.8
	241.0	12.99	99.9		302.5	13.09	100.8
	242.5	13.01	100.0		304.0	13.10	100.8
	244.0	13.02	100.0		305.5	13.09	100.8
	245.5	13.01	100.0		307.0	13.12	100.8
	247.0	13.02	100.0		308.5	13.12	100.9
	248.5	13.02	100.0		310.0	13.13	100.9
	250.0	13.03	100.1		311.5	13.12	100.9
	251.5	13.05	100.1		313.0	13.05	100.9
	253.0	13.05	100.1		314.5	13.00	100.9
	254.5	13.06	100.1		316.0	13.23	101.0
	256.0	13.06	100.1		317.5	13.22	101.0
	257.5	13.06	100.2		319.0	12.67	101.0
	259.0	13.05	100.2		320.5	12.63	100.9
	260.5	13.05	100.2		322.0	12.60	100.9
	262.0	13.05	100.2		323.5	12.57	100.8
	263.5	13.06	100.3		325.0	12.60	100.6
	265.0	13.06	100.3		326.5	12.63	100.3
	266.5	13.07	100.3		328.0	11.65	99.8
	268.0	13.07	100.3		329.5	12.52	99.3
	269.5	13.08	100.3		331.0	12.45	98.7
	271.0	13.08	100.4		332.5	12.69	98.2
	272.5	13.09	100.4		334.0	12.38	97.5
	274.0	13.10	100.4		335.5	12.30	96.9
	275.5	13.09	100.4		337.0	12.26	96.3
	277.0	13.08	100.4		338.5	12.26	95.8
	278.5	13.07	100.5		340.0	14.12	95.2
	280.0	13.08	100.5		341.5	11.92	94.7
	281.5	13.08	100.5		343.0	12.98	94.3

Printing every 3 samples

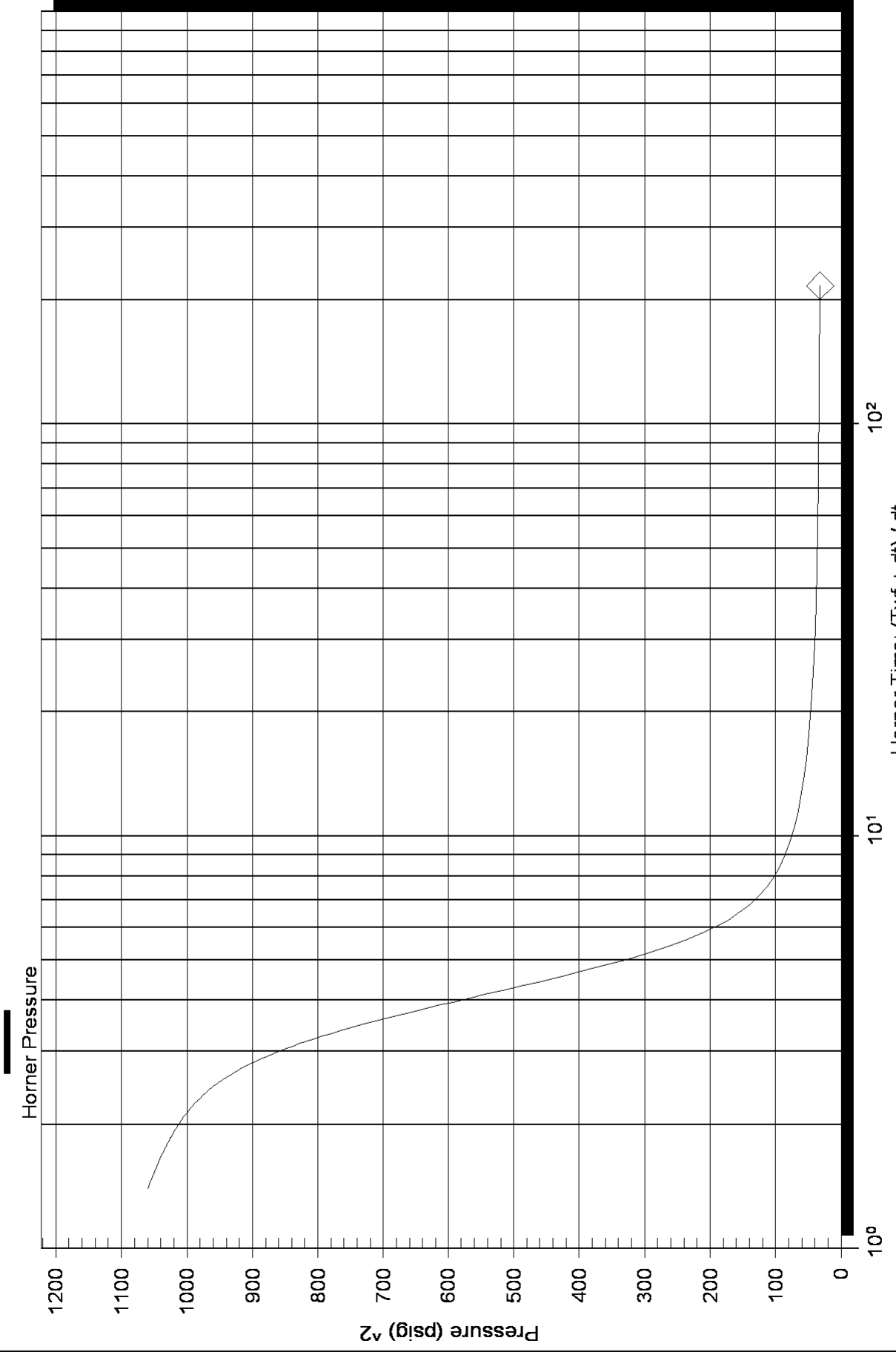
Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	344.5	12.10	93.9		406.0	-1.18	45.3
	346.0	12.89	93.6		407.5	-1.19	45.2
	347.5	11.91	93.3		409.0	-1.19	45.0
	349.0	11.90	93.0		410.5	-1.19	44.8
	350.5	11.92	92.5		412.0	-1.18	44.6
	352.0	11.76	91.8		413.5	-1.17	44.5
	353.5	11.85	91.0		415.0	-1.15	44.3
	355.0	11.16	90.4		416.5	-1.10	44.2
	356.5	11.70	89.7		418.0	-1.05	44.0
	358.0	11.74	88.9		419.5	-1.01	43.8
	359.5	11.60	88.1		421.0	-0.93	43.7
	361.0	11.55	87.3		422.5	-0.86	44.4
	362.5	11.54	86.5		424.0	-0.82	44.1
	364.0	11.20	85.8		425.5	-0.78	43.9
	365.5	11.55	85.2		427.0	-0.74	47.7
	367.0	11.55	84.6		428.5	-0.71	48.2
	368.5	11.56	84.1		430.0	-0.77	48.4
	370.0	10.91	83.7		431.5	-0.73	48.5
	371.5	11.33	83.4		432.0	-0.77	48.5
	373.0	11.35	83.1				
	374.5	11.15	82.9				
	376.0	-1.07	82.5				
	377.5	-1.28	60.6				
	379.0	-1.29	58.3				
	380.5	-1.25	56.2				
	382.0	-1.23	54.3				
	383.5	-1.22	52.8				
	385.0	-1.22	51.6				
	386.5	-1.21	50.6				
	388.0	-1.20	49.8				
	389.5	-1.20	49.1				
	391.0	-1.19	48.5				
	392.5	-1.19	48.0				
	394.0	-1.19	47.6				
	395.5	-1.18	47.3				
	397.0	-1.17	46.9				
	398.5	-1.17	46.6				
	400.0	-1.16	46.3				
	401.5	-1.16	46.0				
	403.0	-1.17	45.8				
	404.5	-1.17	45.5				

Printing every 3 samples

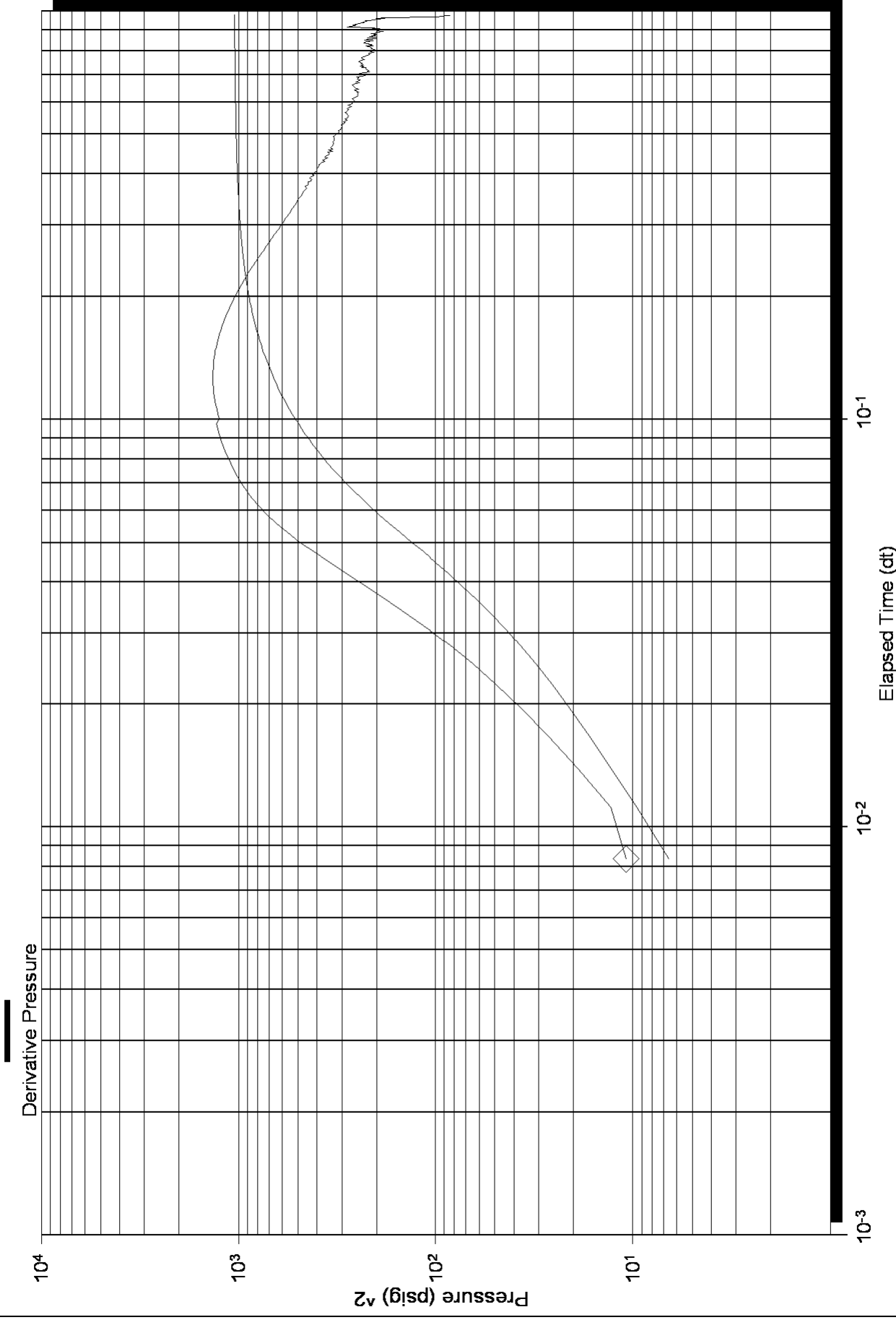
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

