

DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr. & assoc.**

1515 Wynkoop
STE 700
Denver Co. 80202

ATTN: Neil Sharp

36-15s-16w Ellis

Maier 1-36

Start Date: 2011.03.15 @ 12:00:05

End Date: 2011.03.15 @ 20:19:39

Job Ticket #: 041565 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

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DST#: 1

Test Start: 2011.03.15 @ 12:00:05

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:04:50

Time Test Ended: 20:19:39

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: 3202.00 ft (KB) To 3232.00 ft (KB) (TVD)

Reference Elevations: 1923.00 ft (KB)

Total Depth: 3232.00 ft (KB) (TVD)

1913.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 180.84 psig @ 3203.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.15

End Date:

2011.03.15

Last Calib.:

2011.03.15

Start Time: 12:00:05

End Time:

20:19:40

Time On Btm:

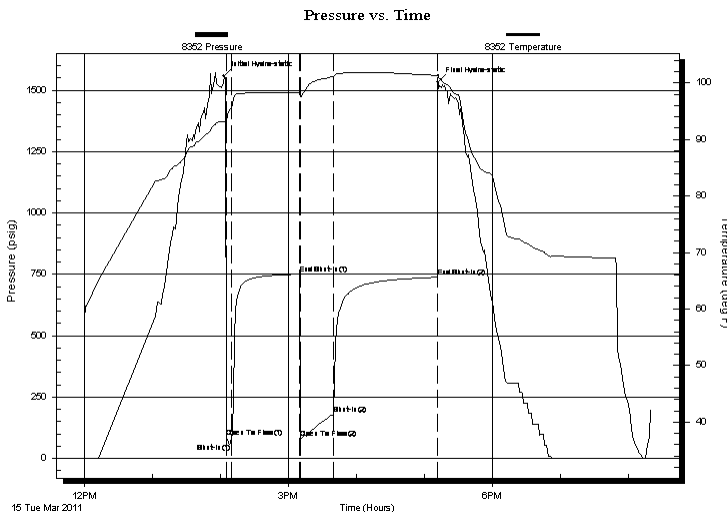
2011.03.15 @ 14:03:10

Time Off Btm:

2011.03.15 @ 17:12:09

TEST COMMENT: IF: 5 min. BOB, 1 min.
IS: 60 min. Return Blow, building to 6 inches
FF: 30 min. BOB, Immediately
FS: 90 min. Return Blow, Gas to surface 10 min. building to 8 inches

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1557.92	93.23	Initial Hydro-static
2	85.94	92.55	Open To Flow (1)
7	61.66	95.62	Shut-In(1)
67	750.55	98.22	End Shut-In(1)
68	83.22	97.57	Open To Flow (2)
97	180.84	101.16	Shut-In(2)
188	737.74	101.35	End Shut-In(2)
189	1535.04	101.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	GOCM g=30% o=30% m=40%	1.12
520.00	GCO g=20% o=80%	7.29

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2011.03.15 @ 12:00:05

Tool Information

Drill Pipe:	Length: 3188.00 ft	Diameter: 3.80 inches	Volume: 44.72 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:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 44.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3202.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	64.00 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	3168.00	
Blank Spacing	5.00			3173.00	
Shut In Tool	5.00			3178.00	
Sampler	2.00			3180.00	
Hydraulic tool	5.00			3185.00	
Jars	5.00			3190.00	
Safety Joint	3.00			3193.00	
Packer	5.00			3198.00	34.00 Bottom Of Top Packer
Packer	4.00			3202.00	
Stubb	1.00			3203.00	
Recorder	0.00	8017	Inside	3203.00	
Recorder	0.00	8352	Outside	3203.00	
Perforations	26.00			3229.00	
Bullnose	3.00			3232.00	30.00 Bottom Packers & Anchor

Total Tool Length: 64.00



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FLUID SUMMARY

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Job Ticket: 041565

DST#: 1

Test Start: 2011.03.15 @ 12:00:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5300.00 ppm
Filter Cake: inches

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

Oil API: 42 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

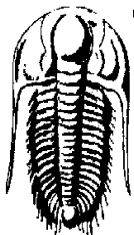
Length ft	Description	Volume bbl
80.00	GOCM g=30% o=30% m=40%	1.122
520.00	GCO g=20% o=80%	7.294

Total Length: 600.00 ft Total Volume: 8.416 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Data-gas=1CF, oil=1500ML, pressure=200Lbs



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DRILL STEM TEST REPORT

GAS RATES

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DST#: 1

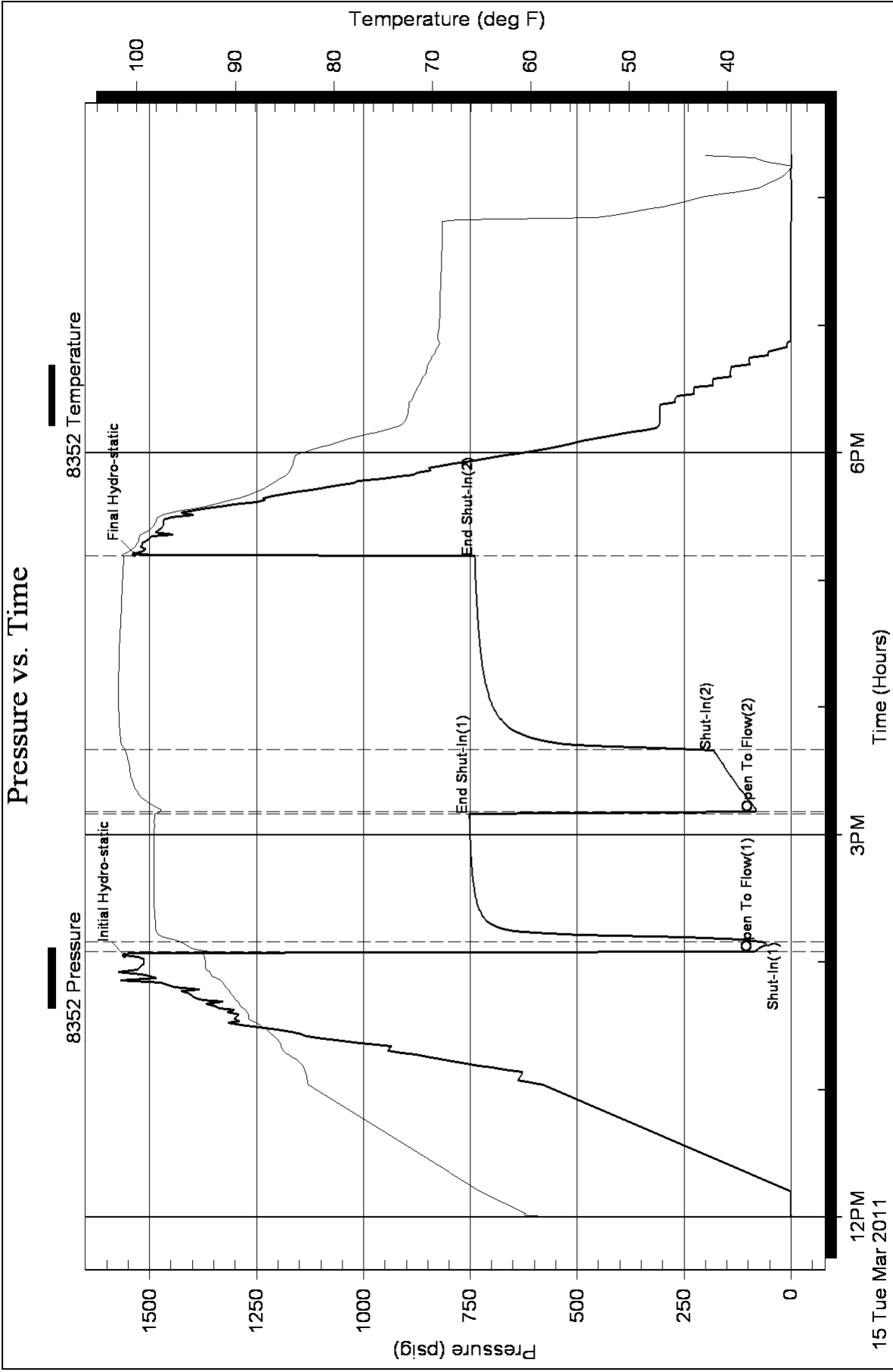
Test Start: 2011.03.15 @ 12:00:05

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



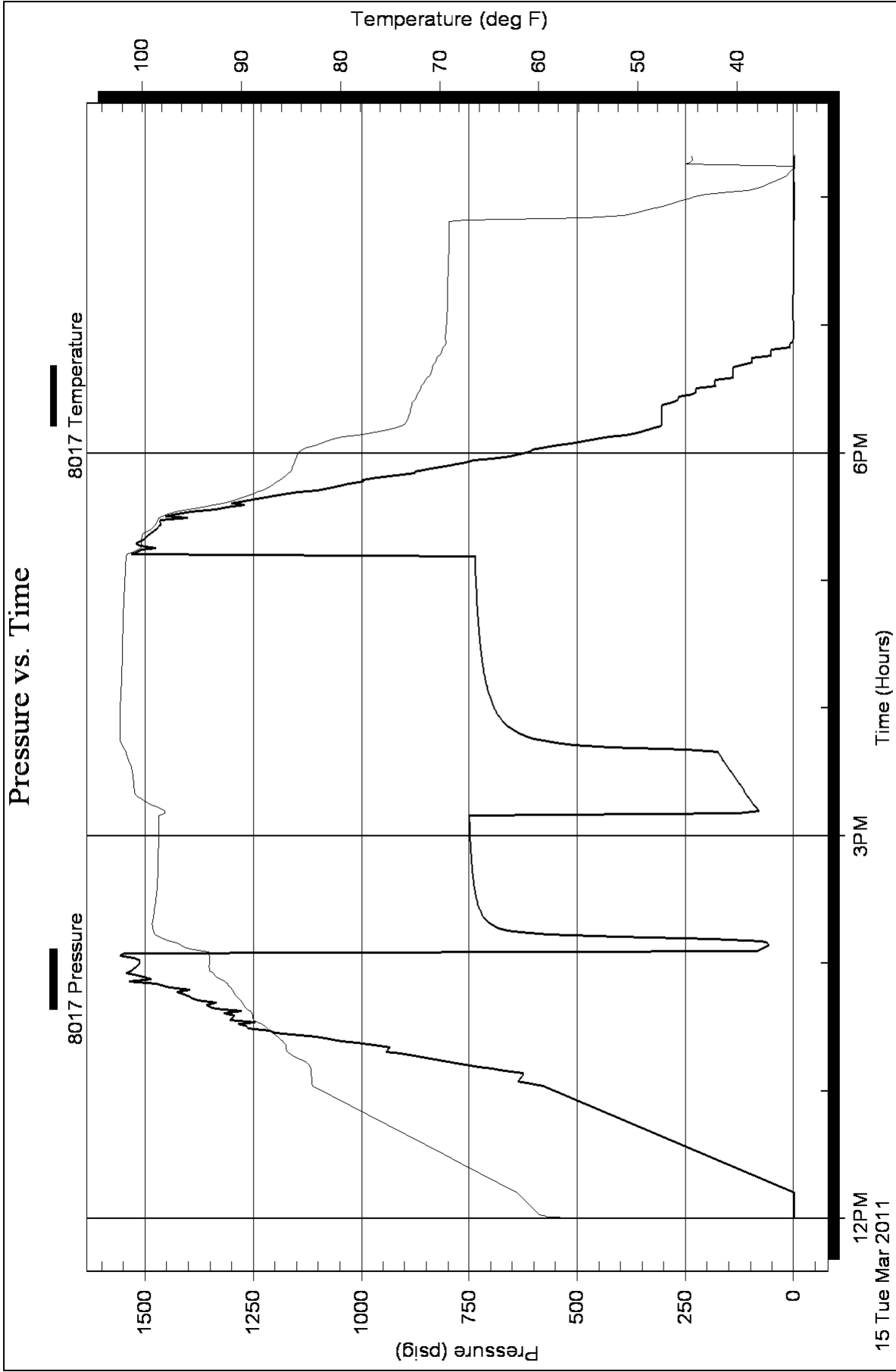
Serial #: 8017

Inside

Sam Gary Jr. & assoc.

36-15s-16w Ellis

DST Test Number: 1



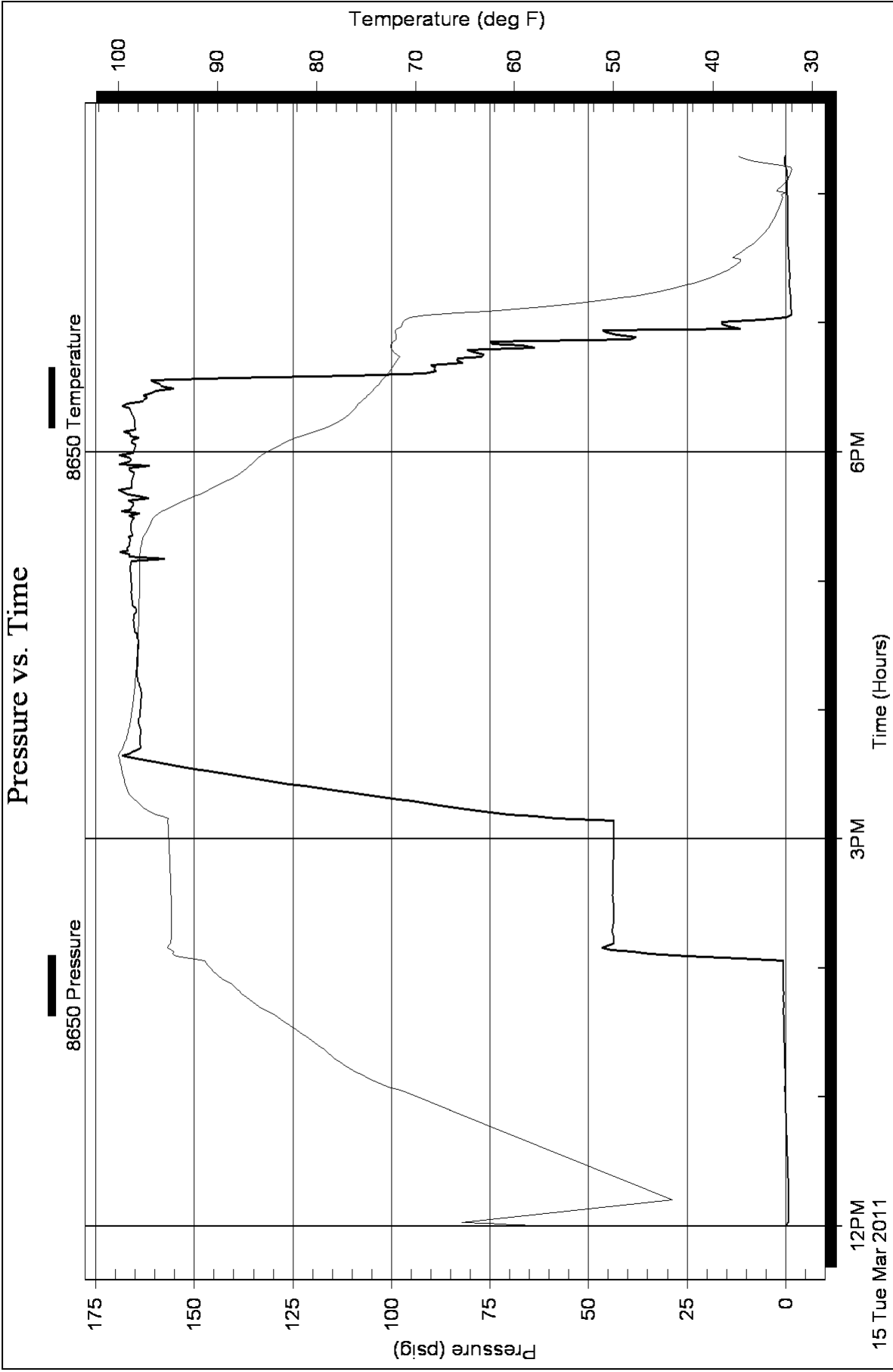
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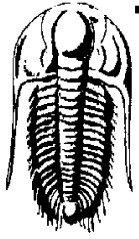
Fluid

Sam Gary Jr. & assoc.

36-15s-16w Ellis

DST Test Number: 1





**TRILOBITE
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DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & assoc.

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Job Ticket: 041565

DST#: 1

Test Start: 2011.03.15 @ 12:00:05

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.11	58.0		101.1	1329.95	89.7
	0.7	-0.76	60.6		102.4	1375.84	90.0
	1.3	-0.66	60.6		103.8	1391.60	90.2
	11.9	-0.59	65.1		105.1	1409.15	90.5
	62.4	560.02	82.6		106.4	1426.40	90.7
	63.8	667.93	82.7		107.8	1443.02	91.0
	65.1	635.50	82.7		109.1	1457.65	91.2
	66.4	631.02	82.8		110.4	1472.84	91.4
	67.8	627.67	82.9		111.8	1486.05	91.9
	69.1	669.21	83.0		113.1	1502.20	92.3
	70.4	699.68	83.1		114.4	1518.07	92.6
	71.8	755.73	83.3		115.8	1530.90	92.9
	73.1	789.74	83.6		117.1	1523.56	93.0
	74.4	804.31	84.0		118.4	1515.78	93.1
	75.8	876.32	84.5		119.8	1511.42	93.1
	77.1	910.59	84.9		121.1	1512.29	93.1
	78.4	942.42	85.2		122.4	1523.31	93.2
	79.8	936.44	85.3		122.8	1520.27	93.2
	81.1	971.41	85.4		122.9	1518.78	93.2
	82.4	1000.28	85.6	Initial Hydro-static	123.1	1557.92	93.2
	83.8	1034.51	85.8		123.3	1553.87	93.2
	85.1	1139.73	86.2		123.4	1567.65	93.2
	86.4	1123.37	86.4		123.6	1548.07	93.2
	87.8	1151.95	86.8		124.4	1551.39	93.3
	89.1	1244.69	87.2		124.6	1553.23	93.3
	90.4	1242.91	87.7	Open To Flow (1)	124.8	85.94	92.5
	91.8	1274.92	88.2		124.9	85.98	93.0
	93.1	1302.76	88.7		125.1	83.60	93.2
	94.4	1295.95	88.7		125.3	80.93	93.5
	95.8	1375.38	88.7		126.6	71.57	94.7
	97.1	1302.78	89.0		127.9	56.49	94.9
	98.4	1393.49	89.3		129.1	60.48	95.5
	99.8	1324.50	89.6		129.3	61.00	95.5

Printing every 8 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
Shut-In(1)	129.4	61.66	95.6		180.9	749.41	98.2
	129.6	62.36	95.7		182.3	749.63	98.2
	129.9	64.33	95.9		183.6	749.85	98.2
	130.3	97.16	96.1		184.9	750.06	98.2
	131.6	276.73	97.4		186.3	750.25	98.2
	132.9	559.56	97.9		187.6	750.41	98.2
	134.3	641.10	98.0		188.9	750.48	98.2
	135.6	675.70	98.1		189.1	750.50	98.2
	136.9	694.01	98.1		189.3	750.50	98.2
	138.3	705.18	98.1	End Shut-In(1)	189.4	750.55	98.2
	139.6	712.78	98.2		189.6	748.63	98.2
	140.9	718.16	98.2		189.8	207.62	97.9
	142.3	722.77	98.2		189.9	158.54	97.9
	143.6	725.99	98.2		190.3	100.29	97.6
	144.9	728.69	98.2		190.4	88.87	97.6
	146.3	731.03	98.2	Open To Flow (2)	190.6	83.22	97.6
	147.6	733.03	98.2		190.8	80.73	97.6
	148.9	734.73	98.3		190.9	79.97	97.6
	150.3	736.20	98.2		191.1	80.11	97.6
	151.6	737.42	98.3		192.4	84.86	97.9
	152.9	738.63	98.3		193.8	90.69	98.5
	154.3	739.68	98.3		195.1	95.59	98.9
	155.6	740.60	98.3		196.4	100.10	99.3
	156.9	741.41	98.3		197.8	105.06	99.7
	158.3	742.12	98.2		199.1	109.65	99.9
	159.6	742.90	98.2		200.4	115.64	100.0
	160.9	743.56	98.2		201.8	121.00	100.2
	162.3	744.13	98.2		203.1	125.64	100.3
	163.6	744.74	98.2		204.4	130.97	100.4
	164.9	745.21	98.2		205.8	135.61	100.5
	166.3	745.67	98.2		207.1	140.24	100.6
	167.6	746.01	98.2		208.4	144.71	100.7
	168.9	746.44	98.3		209.8	149.45	100.7
	170.3	746.83	98.3		211.1	154.06	100.7
	171.6	747.50	98.3		212.4	158.24	100.8
	172.9	747.51	98.3		213.8	162.50	100.8
	174.3	747.83	98.3		215.1	166.91	100.9
	175.6	748.43	98.3		216.4	170.98	101.0
	176.9	748.71	98.2		217.8	175.71	101.1
	178.3	748.97	98.2		219.1	179.26	101.1
	179.6	749.19	98.2		219.3	180.24	101.1

Printing every 8 samples

Serial # 8352 Outside				Serial # 8352 Outside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	219.4	180.66	101.1		269.4	726.13	101.8
Shut-In(2)	219.6	180.84	101.2		270.8	726.70	101.8
	219.8	203.70	101.2		272.1	727.31	101.7
	219.9	228.88	101.2		273.4	727.92	101.7
	220.1	254.55	101.3		274.8	728.49	101.7
	221.4	467.80	101.5		276.1	728.95	101.7
	222.8	541.73	101.6		277.4	729.46	101.7
	224.1	582.28	101.7		278.8	729.91	101.7
	225.4	609.46	101.7		280.1	730.43	101.7
	226.8	628.43	101.7		281.4	731.22	101.6
	228.1	642.71	101.7		282.8	731.29	101.6
	229.4	653.69	101.8		284.1	731.74	101.6
	230.8	662.65	101.8		285.4	732.43	101.6
	232.1	669.92	101.8		286.8	732.47	101.6
	233.4	676.04	101.8		288.1	733.18	101.6
	234.8	681.24	101.8		289.4	733.53	101.6
	236.1	685.75	101.8		290.8	733.88	101.5
	237.4	689.93	101.8		292.1	734.20	101.5
	238.8	693.19	101.8		293.4	734.53	101.5
	240.1	696.29	101.8		294.8	734.83	101.5
	241.4	699.09	101.8		296.1	734.77	101.5
	242.8	701.62	101.9		297.4	735.45	101.5
	244.1	703.85	101.9		298.8	735.69	101.5
	245.4	705.92	101.9		300.1	735.99	101.5
	246.8	707.86	101.9		301.4	736.27	101.4
	248.1	709.62	101.9		302.8	736.53	101.4
	249.4	711.25	101.9		304.1	736.78	101.4
	250.8	712.71	101.9		305.4	737.00	101.4
	252.1	714.06	101.9		306.8	737.26	101.4
	253.4	715.31	101.8		308.1	737.53	101.4
	254.8	716.52	101.8		309.4	737.71	101.4
	256.1	717.67	101.8		310.8	737.80	101.3
	257.4	718.77	101.8		310.9	737.79	101.4
	258.8	719.80	101.8	End Shut-In(2)	311.1	737.74	101.3
	260.1	720.77	101.8		311.3	1319.47	101.7
	261.4	721.60	101.8		311.4	1472.60	101.5
	262.8	722.47	101.8		311.6	1478.78	101.5
	264.1	723.32	101.8		311.8	1514.26	101.6
	265.4	723.99	101.8		311.9	1538.84	101.5
	266.8	724.73	101.8	Final Hydro-static	312.1	1535.04	101.4
	268.1	725.41	101.8		312.3	1533.47	101.3

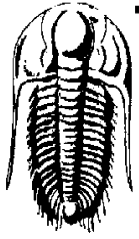
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Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	312.4	1529.72	101.2		365.9	470.75	78.9
	312.6	1525.77	101.1		367.3	428.79	77.8
	313.9	1512.76	100.7		368.6	398.77	76.5
	315.3	1473.10	100.3		369.9	355.98	75.3
	316.6	1503.52	100.0		371.3	309.61	74.2
	317.9	1513.06	99.9		372.6	308.91	73.3
	319.3	1500.78	99.8		373.9	306.46	72.9
	320.6	1493.74	99.7		375.3	306.62	72.7
	321.9	1491.42	99.5		376.6	306.48	72.6
	323.3	1480.09	98.8		377.9	306.43	72.5
	324.6	1472.34	98.4		379.3	306.40	72.5
	325.9	1466.67	98.2		380.6	306.36	72.5
	327.3	1468.29	98.1		381.9	306.33	72.4
	328.6	1466.78	98.0		383.3	271.26	72.4
	329.9	1456.80	97.6		384.6	269.13	72.2
	331.3	1427.02	96.7		385.9	268.63	72.0
	332.6	1395.91	95.3		387.3	231.71	71.9
	333.9	1300.75	93.7		388.6	226.71	71.7
	335.3	1280.27	92.3		389.9	225.66	71.6
	336.6	1271.68	91.1		391.3	182.87	71.5
	337.9	1244.03	90.0		392.6	183.17	71.2
	339.3	1212.65	89.1		393.9	182.94	71.1
	340.6	1181.12	88.3		395.3	139.18	71.0
	341.9	1110.97	87.7		396.6	140.56	70.8
	343.3	1089.36	87.0		397.9	140.52	70.7
	344.6	1061.93	86.5		399.3	140.09	70.6
	345.9	1030.03	86.0		400.6	140.10	70.5
	347.3	963.55	85.6		401.9	96.55	70.4
	348.6	942.04	85.1		403.3	96.64	70.2
	349.9	879.04	84.8		404.6	88.85	70.1
	351.3	877.88	84.5		405.9	52.50	69.9
	352.6	820.44	84.3		407.3	52.89	69.7
	353.9	784.13	84.2		408.6	12.79	69.6
	355.3	758.88	84.1		409.9	8.11	69.4
	356.6	727.78	84.1		411.3	8.26	69.3
	357.9	672.43	84.0		412.6	-0.77	69.4
	359.3	658.76	83.7		413.9	-0.80	69.5
	360.6	607.97	82.7		415.3	-0.82	69.5
	361.9	577.52	81.7		416.6	-0.84	69.4
	363.3	546.93	80.7		417.9	-0.60	69.4
	364.6	489.18	79.8		419.3	-0.82	69.3

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Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	420.6	0.62	69.3		475.3	-1.35	46.8
	421.9	0.45	69.3		476.6	-1.31	45.5
	423.3	0.22	69.3		477.9	-1.28	44.2
	424.6	-0.37	69.3		479.3	-1.28	43.1
	425.9	-0.44	69.3		480.6	-1.21	42.1
	427.3	-0.45	69.3		481.9	-1.12	39.7
	428.6	-0.48	69.3		483.3	-1.08	37.8
	429.9	-0.48	69.3		484.6	-1.03	36.8
	431.3	-0.48	69.2		485.9	-0.99	36.2
	432.6	-0.49	69.2		487.3	-0.94	35.5
	433.9	-0.47	69.2		488.6	-0.90	34.8
	435.3	-0.50	69.2		489.9	-0.86	34.4
	436.6	-0.54	69.2		491.3	-0.85	34.1
	437.9	-0.56	69.2		492.6	-0.84	33.8
	439.3	-0.57	69.2		493.9	-0.90	33.6
	440.6	-0.58	69.2		495.3	-0.98	34.5
	441.9	-0.55	69.2		496.6	-1.00	36.1
	443.3	-0.55	69.2		497.9	-0.97	37.0
	444.6	-0.56	69.1		499.3	-1.15	39.1
	445.9	-0.56	69.1		499.6	-1.67	45.5
	447.3	-0.57	69.1				
	448.6	-0.60	69.1				
	449.9	-0.63	69.1				
	451.3	-0.62	69.1				
	452.6	-0.59	69.1				
	453.9	-0.62	69.1				
	455.3	-0.63	69.1				
	456.6	-0.61	69.1				
	457.9	-0.57	69.1				
	459.3	-0.55	69.0				
	460.6	-0.56	69.0				
	461.9	-0.56	69.0				
	463.3	-0.56	69.0				
	464.6	-0.55	69.0				
	465.9	-0.55	69.0				
	467.3	-0.63	69.0				
	468.6	-0.86	69.0				
	469.9	-1.13	59.8				
	471.3	-1.35	51.8				
	472.6	-1.39	50.0				
	473.9	-1.37	48.4				

Printing every 7 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & assoc.

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

Maier 1-36

36-15s-16w Ellis

Job Ticket: 041565

DST#: 1

Test Start: 2011.03.15 @ 12:00:05

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-1.91	56.5		95.6	1290.58	88.8
	0.6	-1.99	59.2		96.8	1316.79	89.1
	1.2	-1.95	59.5		97.9	1337.08	89.3
	1.8	-1.97	60.6		99.1	1348.74	89.6
	51.9	61.06	73.1		100.3	1362.65	89.8
	62.9	607.65	82.9		101.4	1370.46	89.9
	64.1	637.14	82.9		102.6	1354.30	90.1
	65.3	632.86	82.9		103.8	1392.14	90.4
	66.4	628.27	82.9		104.9	1411.16	90.7
	67.6	625.39	83.0		106.1	1426.12	90.8
	68.8	668.60	83.0		107.3	1513.63	91.0
	69.9	696.73	83.0		108.4	1500.30	91.2
	71.1	728.33	83.0		109.6	1454.45	91.3
	72.3	757.26	83.2		110.8	1472.22	91.6
	73.4	786.01	83.6		111.9	1486.11	92.0
	74.6	867.30	84.1		113.1	1503.17	92.4
	75.8	888.85	84.7		114.3	1517.06	92.7
	76.9	909.87	85.0		115.4	1532.44	93.0
	78.1	943.12	85.3		116.6	1528.11	93.2
	79.3	938.55	85.5		117.8	1520.97	93.2
	80.4	933.11	85.5		118.9	1514.52	93.2
	81.6	969.78	85.6		120.1	1512.64	93.2
	82.8	998.30	85.8		121.3	1512.01	93.2
	83.9	1025.91	86.0		122.4	1522.92	93.2
	85.1	1103.14	86.3		123.6	1544.47	93.2
	86.3	1148.98	86.6		124.8	83.57	92.5
	87.4	1152.96	86.9		125.9	77.55	94.6
	88.6	1180.94	87.2		127.1	68.27	95.8
	89.8	1212.66	87.6		128.3	57.82	96.1
	90.9	1241.64	87.9		129.4	61.70	96.7
	92.1	1245.99	88.4		130.6	125.29	97.4
	93.3	1302.26	88.8		131.8	303.82	98.2
	94.4	1296.63	88.8		132.9	552.91	98.6

Printing every 7 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	134.1	629.53	98.8		181.9	747.34	98.3
	135.3	664.78	98.9		183.1	747.55	98.3
	136.4	684.05	98.9		184.3	747.48	98.3
	137.6	695.92	99.0		185.4	747.97	98.3
	138.8	704.19	99.0		186.6	748.13	98.3
	139.9	710.26	98.9		187.8	748.29	98.3
	141.1	714.97	98.9		188.9	748.38	98.3
	142.3	718.56	98.8		190.1	127.28	97.7
	143.4	721.59	98.8		191.3	80.06	97.8
	144.6	724.16	98.7		192.4	84.71	98.3
	145.8	726.42	98.7		193.6	89.47	98.9
	146.9	728.23	98.7		194.8	94.06	99.3
	148.1	729.92	98.7		195.9	98.22	99.8
	149.3	731.27	98.6		197.1	101.88	100.2
	150.4	732.58	98.6		198.3	106.09	100.5
	151.6	733.75	98.5		199.4	110.34	100.7
	152.8	734.84	98.5		200.6	113.66	100.8
	153.9	735.88	98.5		201.8	117.61	100.8
	155.1	736.78	98.5		202.9	121.04	100.8
	156.3	737.57	98.5		204.1	125.05	100.8
	157.4	738.43	98.5		205.3	129.17	100.9
	158.6	739.00	98.4		206.4	133.28	100.9
	159.8	739.74	98.4		207.6	137.46	100.9
	160.9	740.32	98.4		208.8	141.44	100.9
	162.1	740.93	98.4		209.9	146.01	101.0
	163.3	741.35	98.4		211.1	149.64	101.0
	164.4	741.82	98.4		212.3	153.22	101.1
	165.6	742.46	98.4		213.4	157.34	101.2
	166.8	743.00	98.4		214.6	160.92	101.3
	167.9	743.33	98.4		215.8	164.60	101.4
	169.1	744.11	98.4		216.9	168.45	101.5
	170.3	744.17	98.4		218.1	172.11	101.6
	171.4	744.83	98.4		219.3	175.72	101.6
	172.6	744.83	98.4		220.4	304.38	101.8
	173.8	745.14	98.3		221.6	475.39	101.9
	174.9	745.81	98.3		222.8	536.93	102.1
	176.1	745.75	98.3		223.9	573.72	102.2
	177.3	746.42	98.3		225.1	599.38	102.2
	178.4	746.71	98.3		226.3	617.96	102.2
	179.6	746.94	98.3		227.4	632.04	102.2
	180.8	747.15	98.3		228.6	643.16	102.2

Printing every 7 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	229.8	652.32	102.2		277.6	726.77	101.9
	230.9	659.83	102.2		278.8	727.52	101.9
	232.1	666.13	102.2		279.9	727.57	101.9
	233.3	671.72	102.2		281.1	727.90	101.9
	234.4	676.31	102.2		282.3	728.36	101.9
	235.6	680.42	102.2		283.4	728.72	101.9
	236.8	684.39	102.2		284.6	729.15	101.9
	237.9	687.36	102.2		285.8	729.83	101.9
	239.1	690.38	102.2		286.9	730.20	101.9
	240.3	693.02	102.2		288.1	730.53	101.8
	241.4	695.49	102.2		289.3	730.83	101.8
	242.6	697.67	102.2		290.4	731.14	101.8
	243.8	699.68	102.2		291.6	731.44	101.8
	244.9	701.57	102.1		292.8	731.76	101.8
	246.1	703.33	102.1		293.9	731.75	101.8
	247.3	704.95	102.1		295.1	732.01	101.8
	248.4	706.50	102.1		296.3	732.69	101.8
	249.6	707.83	102.1		297.4	732.97	101.8
	250.8	709.22	102.1		298.6	733.23	101.7
	251.9	710.39	102.1		299.8	733.51	101.7
	253.1	711.66	102.1		300.9	733.77	101.7
	254.3	712.65	102.1		302.1	733.99	101.7
	255.4	713.64	102.1		303.3	734.22	101.7
	256.6	714.72	102.0		304.4	734.47	101.7
	257.8	715.58	102.0		305.6	734.70	101.7
	258.9	716.54	102.0		306.8	734.91	101.7
	260.1	717.47	102.0		307.9	735.11	101.7
	261.3	718.20	102.0		309.1	735.31	101.6
	262.4	719.03	102.0		310.3	735.42	101.6
	263.6	719.79	102.0		311.4	1466.36	101.9
	264.8	720.47	102.0		312.6	1523.50	101.1
	265.9	721.19	102.0		313.8	1511.34	100.5
	267.1	721.82	102.0		314.9	1472.87	100.2
	268.3	722.49	102.0		316.1	1511.06	100.0
	269.4	723.11	102.0		317.3	1518.88	100.1
	270.6	723.60	102.0		318.4	1508.16	100.0
	271.8	724.23	102.0		319.6	1499.59	100.0
	272.9	724.76	102.0		320.8	1493.53	100.0
	274.1	725.24	101.9		321.9	1489.98	100.0
	275.3	725.77	101.9		323.1	1478.89	99.3
	276.4	726.10	101.9		324.3	1471.27	99.0

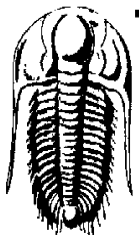
Printing every 7 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	325.4	1465.81	98.8		373.3	304.26	73.6
	326.6	1464.30	98.6		374.4	302.96	73.4
	327.8	1464.92	98.5		375.6	303.38	73.3
	328.9	1463.93	98.3		376.8	303.29	73.2
	330.1	1453.16	97.9		377.9	303.27	73.1
	331.3	1424.40	97.3		379.1	303.24	73.0
	332.4	1394.14	96.0		380.3	303.20	72.9
	333.6	1363.38	94.5		381.4	303.18	72.9
	334.8	1332.04	93.1		382.6	303.19	72.8
	335.9	1301.40	91.9		383.8	268.71	72.7
	337.1	1271.04	91.0		384.9	266.45	72.5
	338.3	1240.21	90.2		386.1	266.01	72.4
	339.4	1209.02	89.3		387.3	224.29	72.3
	340.6	1178.64	88.7		388.4	225.72	72.1
	341.8	1141.29	88.1		389.6	224.96	72.0
	342.9	1082.61	87.5		390.8	211.38	71.9
	344.1	1051.47	87.0		391.9	182.58	71.7
	345.3	1013.79	86.7		393.1	181.91	71.5
	346.4	979.04	86.3		394.3	181.70	71.4
	347.6	965.92	86.0		395.4	138.94	71.2
	348.8	920.87	85.6		396.6	139.85	71.0
	349.9	877.16	85.3		397.8	139.86	70.9
	351.1	876.97	85.0		398.9	139.17	70.8
	352.3	847.65	84.9		400.1	139.55	70.8
	353.4	817.10	84.8		401.3	101.04	70.7
	354.6	786.54	84.7		402.4	96.34	70.5
	355.8	724.13	84.6		403.6	96.44	70.3
	356.9	695.39	84.5		404.8	68.32	70.3
	358.1	655.45	84.4		405.9	52.08	70.0
	359.3	635.70	84.4		407.1	52.49	69.8
	360.4	603.64	84.2		408.3	47.98	69.8
	361.6	588.98	83.7		409.4	7.84	69.6
	362.8	545.84	82.9		410.6	8.14	69.5
	363.9	516.01	82.1		411.8	8.22	69.4
	365.1	485.61	81.4		412.9	0.14	69.5
	366.3	455.54	80.7		414.1	-0.33	69.5
	367.4	425.61	79.2		415.3	-0.41	69.4
	368.6	395.88	77.5		416.4	-0.45	69.4
	369.8	366.29	76.0		417.6	-0.38	69.4
	370.9	336.62	74.7		418.8	-0.24	69.4
	372.1	307.02	74.0		419.9	-0.18	69.3

Printing every 7 samples

Serial # 8017 Inside				Serial # 8017 Inside			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	421.1	-0.11	69.3		468.9	-1.36	67.8
	422.3	0.09	69.3		470.1	-2.02	55.2
	423.4	0.28	69.3		471.3	-2.25	51.3
	424.6	0.34	69.3		472.4	-2.28	50.1
	425.8	0.35	69.3		473.6	-2.23	49.0
	426.9	0.36	69.3		474.8	-2.16	48.1
	428.1	0.38	69.3		475.9	-2.07	47.2
	429.3	0.43	69.3		477.1	-2.00	46.3
	430.4	0.42	69.3		478.3	-1.95	45.4
	431.6	0.33	69.3		479.4	-1.89	44.7
	432.8	0.19	69.3		480.6	-1.83	44.0
	433.9	0.01	69.2		481.8	-1.82	41.5
	435.1	-0.16	69.2		482.9	-1.84	39.2
	436.3	-0.35	69.2		484.1	-1.82	37.9
	437.4	-0.53	69.2		485.3	-1.78	37.2
	438.6	-0.66	69.2		486.4	-1.74	36.7
	439.8	-0.76	69.2		487.6	-1.72	36.0
	440.9	-0.81	69.2		488.8	-1.70	35.4
	442.1	-0.80	69.2		489.9	-1.68	35.0
	443.3	-0.76	69.2		491.1	-1.62	34.8
	444.4	-0.80	69.2		492.3	-1.58	34.5
	445.6	-0.89	69.2		493.4	-1.77	34.3
	446.8	-0.91	69.2		494.6	-1.93	40.0
	447.9	-0.95	69.2		495.8	-1.88	44.9
	449.1	-0.98	69.2		496.9	-1.85	44.6
	450.3	-1.03	69.2		498.1	-1.93	44.5
	451.4	-1.10	69.1		499.3	-2.08	45.1
	452.6	-1.12	69.1		499.6	-2.08	46.1
	453.8	-1.10	69.1				
	454.9	-1.10	69.1				
	456.1	-1.12	69.1				
	457.3	-1.18	69.1				
	458.4	-1.24	69.1				
	459.6	-1.25	69.1				
	460.8	-1.26	69.1				
	461.9	-1.26	69.1				
	463.1	-1.24	69.1				
	464.3	-1.25	69.1				
	465.4	-1.27	69.1				
	466.6	-1.32	69.1				
	467.8	-1.37	69.1				

Printing every 7 samples



**TRILOBITE
TESTING, INC.**

DRILL STEM TESTING - DATA LISTING

Sam Gary Jr. & assoc.

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

Maier 1-36

36-15s-16w Ellis

Job Ticket: 041565

DST#: 1

Test Start: 2011.03.15 @ 12:00:05

Serial # 8650 Fluid				Serial # 8650 Fluid			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	0.0	-0.30	57.6		95.6	0.45	83.5
	0.6	-0.37	60.3		96.8	0.48	83.8
	1.2	-0.48	64.6		97.9	0.49	84.2
	1.8	-0.58	64.8		99.1	0.49	84.8
	51.9	0.09	58.9		100.3	0.49	85.2
	62.9	0.13	71.7		101.4	0.47	85.6
	64.1	0.13	72.5		102.6	0.46	86.1
	65.3	0.11	73.2		103.8	0.48	86.4
	66.4	0.10	73.8		104.9	0.48	86.8
	67.6	0.08	74.4		106.1	0.50	87.1
	68.8	0.07	74.9		107.3	0.50	87.4
	69.9	0.08	75.4		108.4	0.47	87.7
	71.1	0.10	75.9		109.6	0.50	87.9
	72.3	0.11	76.4		110.8	0.54	88.2
	73.4	0.14	76.8		111.9	0.55	88.5
	74.6	0.16	77.2		113.1	0.56	88.9
	75.8	0.17	77.6		114.3	0.56	89.4
	76.9	0.17	78.0		115.4	0.55	89.7
	78.1	0.16	78.3		116.6	0.56	90.0
	79.3	0.18	78.6		117.8	0.56	90.4
	80.4	0.20	78.9		118.9	0.54	90.6
	81.6	0.21	79.2		120.1	0.51	90.8
	82.8	0.25	79.5		121.3	0.52	91.0
	83.9	0.28	79.9		122.4	0.54	91.2
	85.1	0.30	80.2		123.6	0.54	91.4
	86.3	0.32	80.6		124.8	21.03	94.0
	87.4	0.34	80.9		125.9	31.61	94.5
	88.6	0.37	81.3		127.1	38.80	94.4
	89.8	0.38	81.7		128.3	44.88	94.7
	90.9	0.40	82.0		129.4	45.48	95.0
	92.1	0.42	82.4		130.6	44.12	94.8
	93.3	0.42	82.8		131.8	43.47	94.7
	94.4	0.42	83.2		132.9	43.49	94.7

Printing every 7 samples

Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	134.1	43.60	94.7		181.9	43.58	94.9
	135.3	43.76	94.7		183.1	43.53	95.0
	136.4	43.85	94.7		184.3	43.51	95.0
	137.6	43.88	94.6		185.4	43.54	95.0
	138.8	43.82	94.6		186.6	43.56	95.0
	139.9	43.68	94.6		187.8	43.58	95.0
	141.1	43.54	94.6		188.9	56.74	94.9
	142.3	43.46	94.6		190.1	63.71	95.6
	143.4	43.45	94.6		191.3	70.90	96.2
	144.6	43.46	94.6		192.4	76.39	96.8
	145.8	43.48	94.6		193.6	81.37	97.3
	146.9	43.53	94.6		194.8	86.07	97.6
	148.1	43.55	94.7		195.9	90.33	97.9
	149.3	43.56	94.7		197.1	94.71	98.2
	150.4	43.64	94.7		198.3	98.97	98.4
	151.6	43.74	94.7		199.4	103.79	98.7
	152.8	43.82	94.7		200.6	108.52	98.9
	153.9	43.83	94.7		201.8	113.02	99.1
	155.1	43.78	94.7		202.9	117.54	99.2
	156.3	43.74	94.7		204.1	122.00	99.2
	157.4	43.75	94.7		205.3	126.12	99.3
	158.6	43.76	94.7		206.4	130.54	99.4
	159.8	43.77	94.7		207.6	134.78	99.4
	160.9	43.75	94.7		208.8	138.54	99.5
	162.1	43.72	94.7		209.9	142.73	99.6
	163.3	43.69	94.8		211.1	146.72	99.6
	164.4	43.66	94.8		212.3	150.45	99.7
	165.6	43.67	94.8		213.4	154.00	99.7
	166.8	43.67	94.8		214.6	158.18	99.8
	167.9	43.66	94.8		215.8	161.45	99.9
	169.1	43.65	94.8		216.9	165.02	99.9
	170.3	43.62	94.8		218.1	168.29	100.0
	171.4	43.61	94.8		219.3	166.53	99.9
	172.6	43.59	94.8		220.4	165.55	99.7
	173.8	43.59	94.9		221.6	163.50	99.6
	174.9	43.60	94.9		222.8	163.56	99.5
	176.1	43.60	94.9		223.9	163.63	99.3
	177.3	43.58	94.9		225.1	163.61	99.3
	178.4	43.56	94.9		226.3	163.58	99.2
	179.6	43.56	94.9		227.4	163.60	99.1
	180.8	43.57	94.9		228.6	163.56	99.0

Printing every 7 samples

Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	229.8	163.50	99.0		277.6	165.11	98.0
	230.9	163.58	98.9		278.8	165.23	98.0
	232.1	163.75	98.9		279.9	165.26	98.0
	233.3	163.69	98.8		281.1	165.35	98.0
	234.4	164.03	98.8		282.3	165.38	97.9
	235.6	163.84	98.7		283.4	165.44	97.9
	236.8	163.74	98.7		284.6	164.83	97.9
	237.9	163.70	98.7		285.8	164.89	97.9
	239.1	163.66	98.6		286.9	164.78	97.9
	240.3	163.59	98.6		288.1	165.58	97.9
	241.4	163.53	98.6		289.3	165.51	97.9
	242.6	163.49	98.5		290.4	165.54	97.9
	243.8	163.45	98.5		291.6	165.47	97.9
	244.9	163.42	98.5		292.8	165.86	97.9
	246.1	163.36	98.4		293.9	165.89	97.9
	247.3	163.36	98.4		295.1	165.90	97.9
	248.4	163.47	98.4		296.3	165.84	97.9
	249.6	163.62	98.4		297.4	165.80	97.9
	250.8	163.86	98.3		298.6	165.82	97.9
	251.9	163.80	98.3		299.8	165.99	97.9
	253.1	164.26	98.3		300.9	166.10	97.9
	254.3	164.30	98.3		302.1	166.05	97.8
	255.4	164.37	98.2		303.3	166.05	97.8
	256.6	164.37	98.2		304.4	166.07	97.8
	257.8	164.36	98.2		305.6	166.08	97.8
	258.9	164.36	98.2		306.8	166.06	97.8
	260.1	164.34	98.2		307.9	166.03	97.8
	261.3	164.31	98.2		309.1	166.00	97.8
	262.4	164.29	98.1		310.3	167.03	97.8
	263.6	164.26	98.1		311.4	166.41	97.8
	264.8	164.20	98.1		312.6	166.37	97.8
	265.9	164.23	98.1		313.8	168.09	97.8
	267.1	164.32	98.1		314.9	167.00	97.8
	268.3	164.29	98.1		316.1	166.43	97.7
	269.4	164.08	98.1		317.3	166.33	97.6
	270.6	164.10	98.0		318.4	166.27	97.6
	271.8	164.38	98.0		319.6	167.76	97.5
	272.9	164.48	98.0		320.8	164.90	97.5
	274.1	164.60	98.0		321.9	165.85	97.3
	275.3	164.40	98.0		323.1	165.88	97.1
	276.4	165.02	98.0		324.3	165.90	97.0

Printing every 7 samples

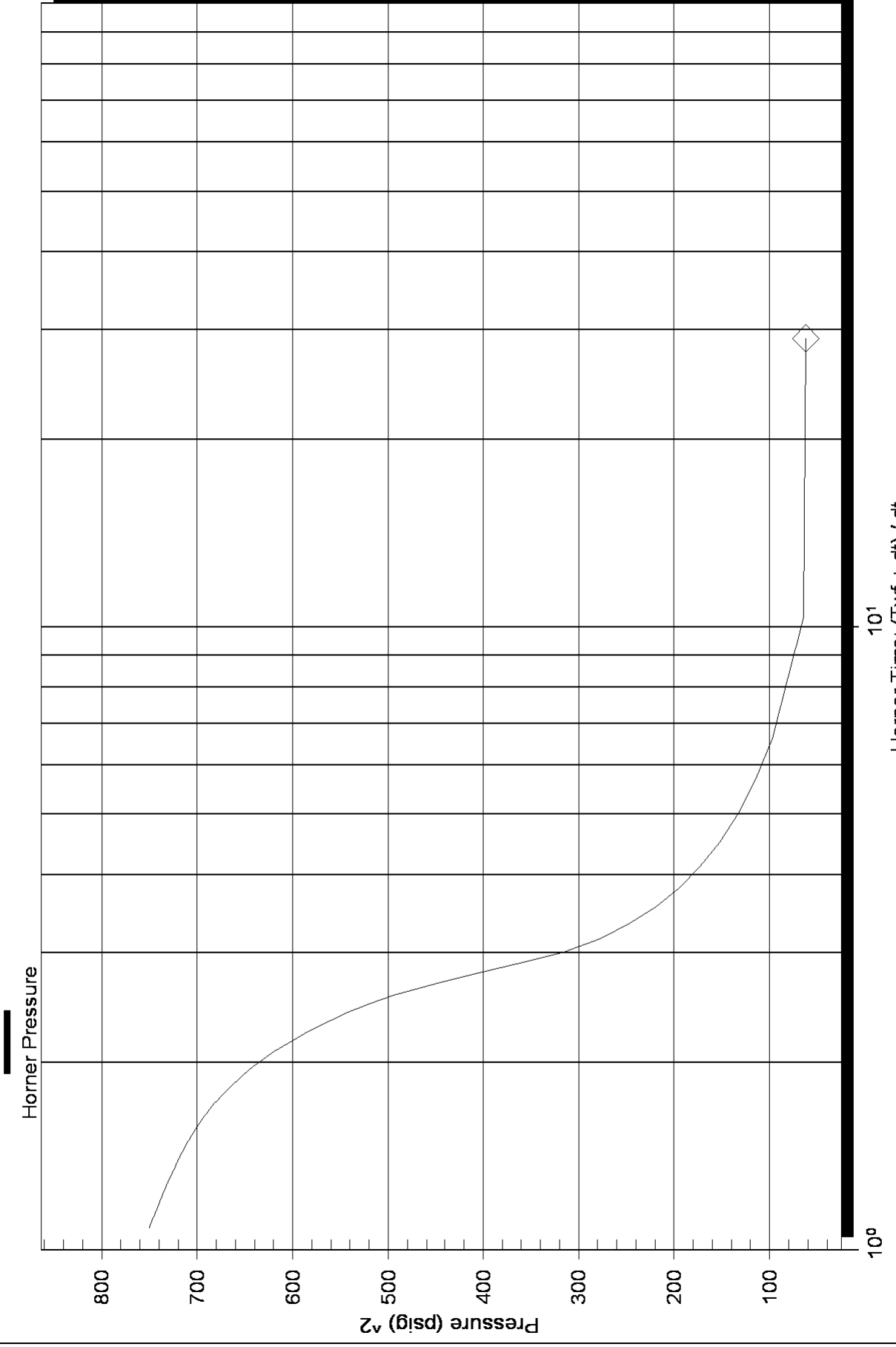
Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	325.4	165.91	96.8		373.3	165.05	78.0
	326.6	165.91	96.7		374.4	165.11	77.6
	327.8	165.87	96.7		375.6	165.31	77.2
	328.9	166.63	96.5		376.8	165.31	76.9
	330.1	166.44	96.3		377.9	165.94	76.6
	331.3	157.91	95.9		379.1	166.19	76.3
	332.4	162.08	95.5		380.3	166.41	76.1
	333.6	166.83	95.0		381.4	167.20	75.9
	334.8	157.23	94.5		382.6	163.78	75.7
	335.9	166.62	93.9		383.8	162.72	75.4
	337.1	166.77	93.4		384.9	163.99	75.1
	338.3	166.38	92.8		386.1	162.96	74.9
	339.4	165.50	92.2		387.3	160.69	74.6
	340.6	165.52	91.6		388.4	159.88	74.3
	341.8	165.80	91.0		389.6	160.39	74.1
	342.9	165.82	90.6		390.8	158.18	73.8
	344.1	165.69	90.1		391.9	159.76	73.6
	345.3	170.12	89.5		393.1	160.99	73.4
	346.4	167.04	89.0		394.3	137.08	73.2
	347.6	167.27	88.5		395.4	101.84	73.0
	348.8	169.45	88.1		396.6	88.67	72.8
	349.9	166.46	87.7		397.8	88.73	72.6
	351.1	166.35	87.3		398.9	90.01	72.4
	352.3	164.89	87.0		400.1	90.08	72.2
	353.4	165.58	86.7		401.3	82.05	72.1
	354.6	165.67	86.5		402.4	83.21	71.9
	355.8	165.59	86.2		403.6	83.11	71.7
	356.9	165.63	85.9		404.8	76.67	71.8
	358.1	169.07	85.5		405.9	78.09	72.2
	359.3	168.87	85.1		407.1	80.73	72.4
	360.4	164.84	84.7		408.3	63.67	72.6
	361.6	170.35	84.2		409.4	69.29	72.5
	362.8	162.34	83.7		410.6	75.33	72.4
	363.9	166.14	83.3		411.8	42.50	72.2
	365.1	165.79	82.7		412.9	37.84	72.0
	366.3	165.64	82.1		414.1	42.68	72.0
	367.4	164.61	81.4		415.3	45.31	72.0
	368.6	164.69	80.6		416.4	46.56	72.1
	369.8	164.61	79.8		417.6	13.10	71.6
	370.9	165.00	79.1		418.8	15.53	71.4
	372.1	165.03	78.5		419.9	16.25	71.3

Printing every 7 samples

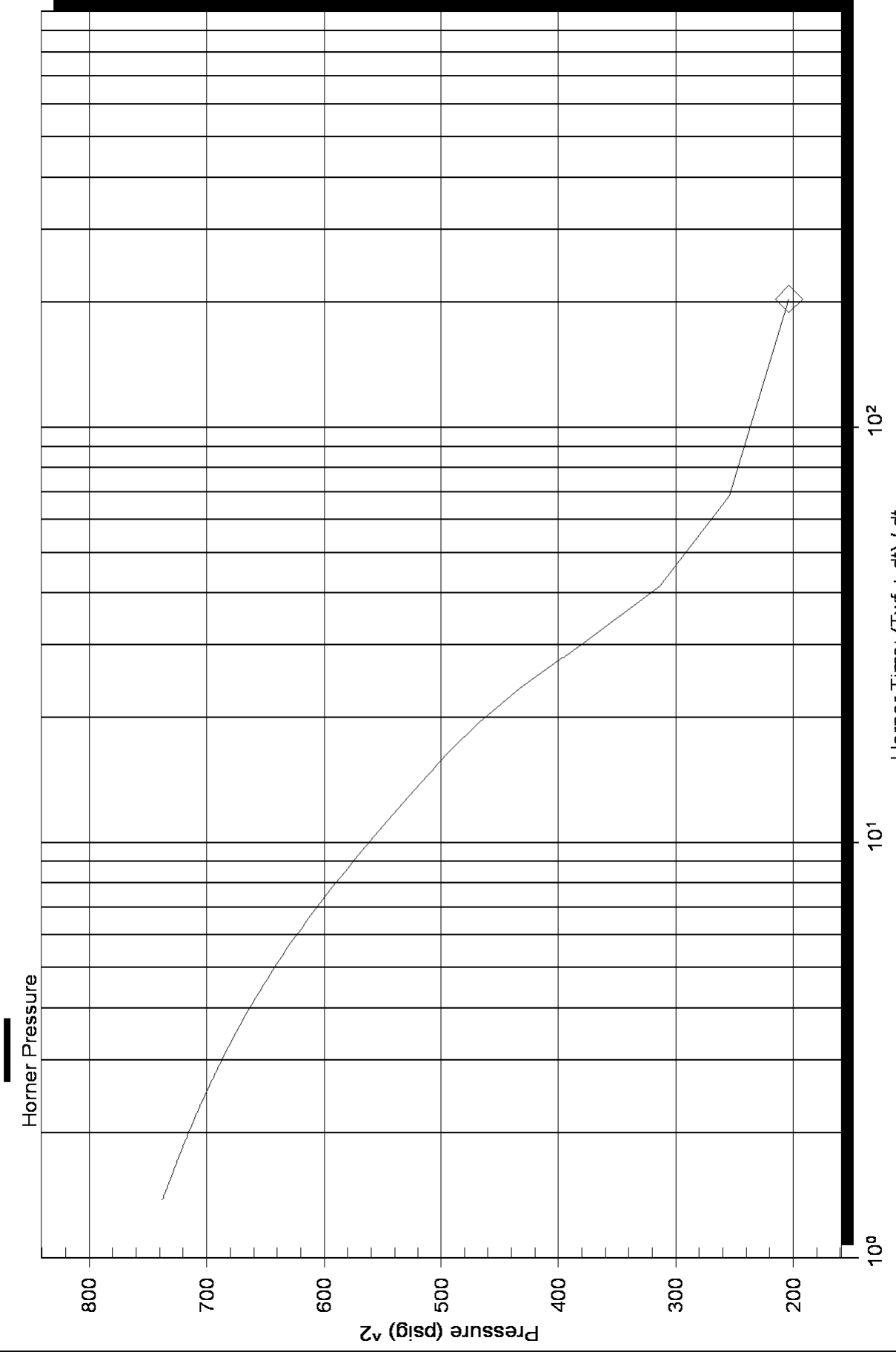
Serial # 8650				Serial # 8650			
Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)	Comments	Time (Min.)	Pressure (psig)	Temp. (deg F)
	421.1	6.08	71.1		468.9	-0.56	33.8
	422.3	-0.17	70.6		470.1	-0.54	33.6
	423.4	-1.44	67.8		471.3	-0.52	33.5
	424.6	-1.49	64.2		472.4	-0.50	33.4
	425.8	-1.41	60.8		473.6	-0.50	33.3
	426.9	-1.31	57.6		474.8	-0.51	33.2
	428.1	-1.23	54.9		475.9	-0.52	33.1
	429.3	-1.27	52.5		477.1	-0.49	33.0
	430.4	-1.30	50.5		478.3	-0.48	33.0
	431.6	-1.28	48.6		479.4	-0.47	33.0
	432.8	-1.24	47.0		480.6	-0.41	33.2
	433.9	-1.18	45.7		481.8	-0.35	33.5
	435.1	-1.07	44.4		482.9	-0.32	33.2
	436.3	-0.97	43.4		484.1	-0.33	32.9
	437.4	-1.00	42.5		485.3	-0.36	32.6
	438.6	-1.02	41.6		486.4	-0.45	32.4
	439.8	-1.00	40.8		487.6	-0.48	32.3
	440.9	-1.02	40.1		488.8	-0.42	32.2
	442.1	-1.03	39.5		489.9	-0.34	32.1
	443.3	-1.00	38.9		491.1	-0.22	32.0
	444.4	-0.97	38.4		492.3	0.02	32.1
	445.6	-0.94	38.0		493.4	0.24	34.3
	446.8	-0.92	37.6		494.6	0.29	35.7
	447.9	-0.86	37.3		495.8	0.28	36.6
	449.1	-0.80	37.2		496.9	0.22	37.3
	450.3	-0.74	37.9		497.3	0.24	37.5
	451.4	-0.68	37.5				
	452.6	-0.68	37.1				
	453.8	-0.69	36.8				
	454.9	-0.65	36.4				
	456.1	-0.64	36.0				
	457.3	-0.64	35.7				
	458.4	-0.66	35.4				
	459.6	-0.66	35.2				
	460.8	-0.62	34.9				
	461.9	-0.61	34.7				
	463.1	-0.61	34.5				
	464.3	-0.62	34.3				
	465.4	-0.61	34.2				
	466.6	-0.60	34.0				
	467.8	-0.58	33.9				

Printing every 7 samples

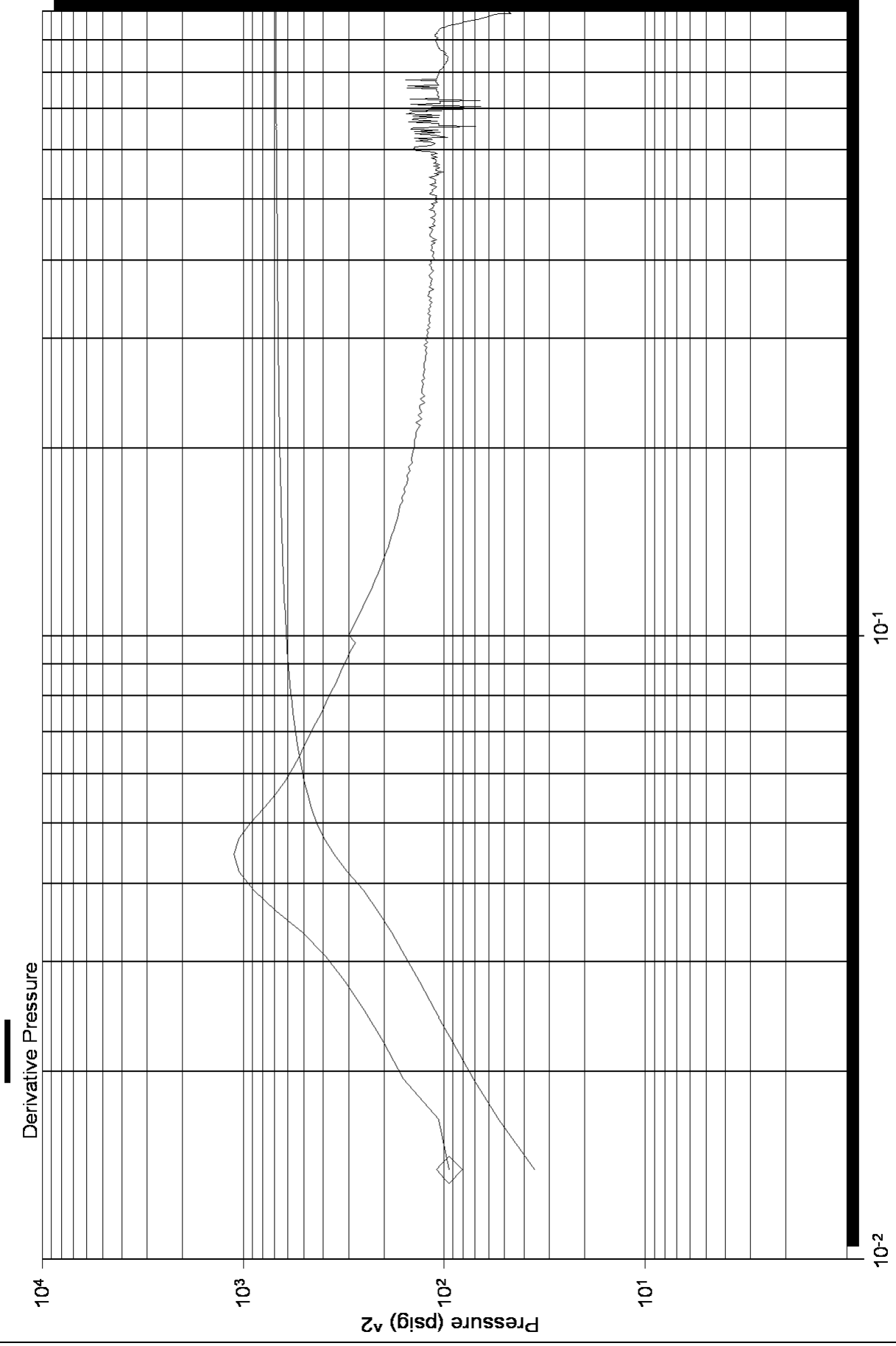
Homer Plot



Homer Plot



Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative

