



## STATIC GRADIENT REPORT

Prepared For: **CLX Energy**

518 17th Street #745  
Denver CO 80202

ATTN:

**21-32s-18w Comanche**

**Acres #1**

Perforation: 4692 to 4702 ft (CF) (TVD)

Formation:

Start Date: 2000.07.27 @ 17:21:06

End Date: 2000.07.28 @ 19:05:06

Reference Number:

Trilobite Testing, L.L.C.

PO Box 362 Hays KS 67601

Ph: 785-625-4778 Fax: 785-625-5620



**TRILOBITE  
TESTING, L.L.C.**

## STATIC GRADIENT REPORT

CLX Energy

Acres #1

518 17th Street #745  
Denver CO 80202

21-32s-18w Comanche

Licence No:

ATTN:

Test Start: 2000.07.27 @ 17:21:06

### GENERAL INFORMATION:

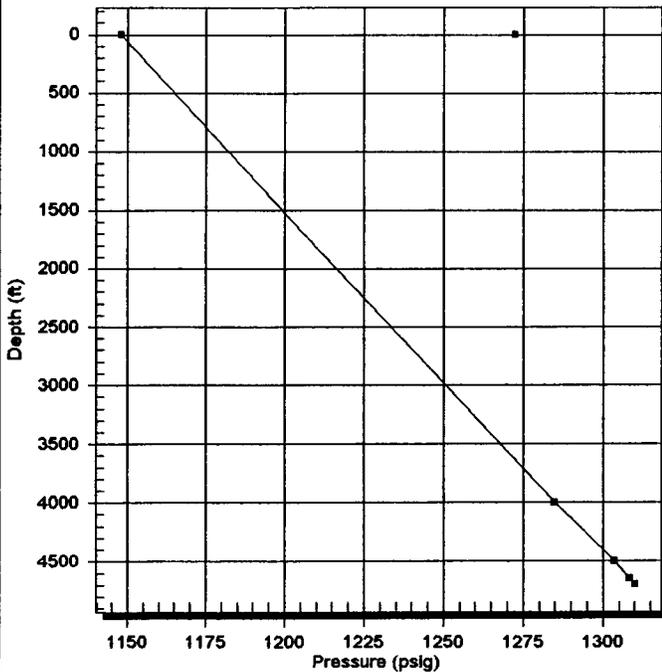
Formation: Field: Coldwater South Company Rep: Paul Simpson  
 Well Status: Gas Flowing Unit No.:  
 Deviated: No Whipstock: ft (CF) Reference Elevations: 2124 ft (KB)  
 Shut in Date: KB to CF: 2119 ft (CF)  
 5.0 ft  
 Perforations: 4692 ft (CF) To 4702 ft (CF) (TVD)  
 Tubing Press: Initial 1163 psig Final 1197 psig inches @ 4718 ft (CF) **MPP: 4697 ft (CF)**  
 Casing Press: Initial 1165 psig Final 1199 psig inches @ ft (CF) **Press@MPP: 1310.07 psig**  
 Open Hole: inches **B.H. Temp: deg F**  
 Packer Depth: ft (CF) **Assumed Gradient: .04 psig/ft**

### RECORDER INFORMATION:

Serial #: 3030 Top Capacity: 5000 psig  
 Press@RunDepth: psig @ 4697 ft (CF) Last Calib.:  
 Start Date: 2000.07.27 @ 17:21:06 Time On Btm: 2000.07.27 @ 17:59:36  
 End Date: 2000.07.28 @ 19:05:06 Time Off Btm: 2000.07.28 @ 17:19:06

### TEST COMMENT:

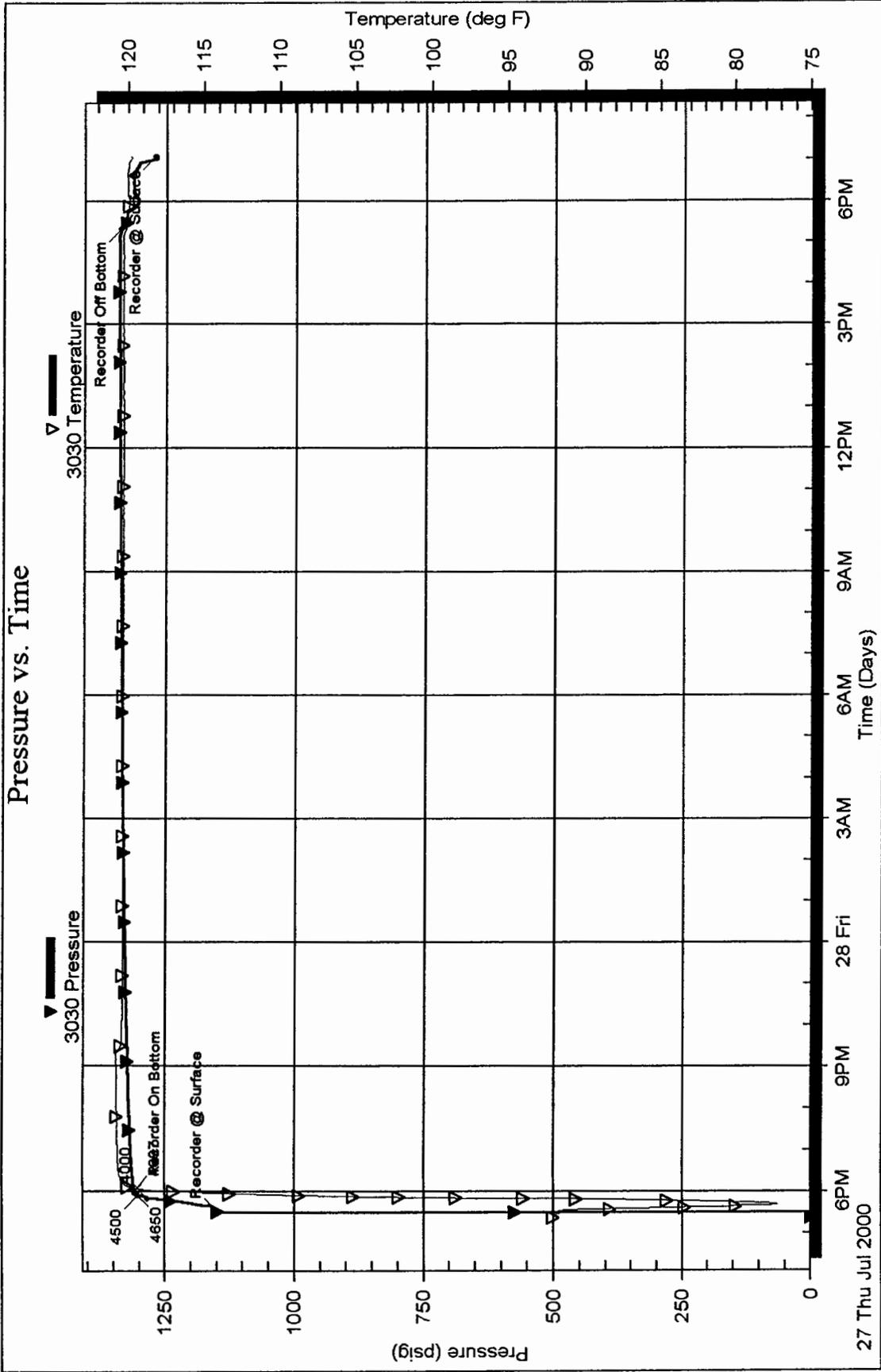
Static Gradient Graph  
3030



### GRADIENT SUMMARY

Relative Time (Hours)	Depth (ft)	Pressure (psig)	Gradient (psig/ft)
25.73333	0.00	1272.31	0.00
0.13611	0.00	1147.93	0.00
0.46944	4000.00	1284.75	0.03
0.54444	4500.00	1303.52	0.04
0.59722	4650.00	1308.24	0.03
0.63889	4697.00	1310.07	0.04

### Pressure vs. Time





**TRILOBITE  
TESTING, L.L.C.**

## STATIC GRADIENT DATA LISTING

CLX Energy  
518 17th Street #745  
Denver CO 80202

Acres #1  
**21-32s-18w Comanche**  
Licence No:  
Test Start: 2000.07.27 @ 17:21:06

ATTN:

**Serial # 3030** Top

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
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2000.07.27 @ 17:21:08	0.00056		0.00	91.94	
2000.07.27 @ 17:21:46	0.01111		0.00	91.97	
2000.07.27 @ 17:23:46	0.04444		0.00	91.83	
2000.07.27 @ 17:26:56	0.09722		0.00	91.63	
2000.07.27 @ 17:28:56	0.13056		9.46	91.29	
2000.07.27 @ 17:29:06	0.13333		123.63	91.26	
2000.07.27 @ 17:29:16	0.13611	0.00	1147.93	91.25	Recorder @ Surface
2000.07.27 @ 17:29:26	0.13889		1147.52	91.24	
2000.07.27 @ 17:29:36	0.14167		1147.77	91.25	
2000.07.27 @ 17:29:46	0.14444		1147.79	91.27	
2000.07.27 @ 17:32:56	0.19722		1152.97	90.48	
2000.07.27 @ 17:36:06	0.25000		1156.66	82.83	
2000.07.27 @ 17:39:16	0.30278		1173.48	78.00	
2000.07.27 @ 17:42:26	0.35556		1201.98	77.91	
2000.07.27 @ 17:45:36	0.40833		1235.14	83.60	
2000.07.27 @ 17:48:46	0.46111		1278.30	93.52	
2000.07.27 @ 17:48:56	0.46389		1280.75	94.18	
2000.07.27 @ 17:49:06	0.46667		1282.99	94.86	
2000.07.27 @ 17:49:16	0.46944	4000.00	1284.75	95.55	4000
2000.07.27 @ 17:49:26	0.47222		1284.85	96.24	
2000.07.27 @ 17:49:36	0.47500		1284.93	96.94	
2000.07.27 @ 17:49:46	0.47778		1284.91	97.64	
2000.07.27 @ 17:52:56	0.53056		1294.24	107.38	
2000.07.27 @ 17:53:26	0.53889		1300.93	108.33	
2000.07.27 @ 17:53:36	0.54167		1302.60	108.66	
2000.07.27 @ 17:53:46	0.54444	4500.00	1303.52	108.99	4500
2000.07.27 @ 17:53:56	0.54722		1303.57	109.32	
2000.07.27 @ 17:54:06	0.55000		1303.57	109.67	
2000.07.27 @ 17:54:16	0.55278		1303.59	110.02	
2000.07.27 @ 17:56:36	0.59167		1305.16	114.23	
2000.07.27 @ 17:56:46	0.59444		1307.38	114.45	
2000.07.27 @ 17:56:56	0.59722	4650.00	1308.24	114.67	4650
2000.07.27 @ 17:57:06	0.60000		1308.26	114.87	

Printing every 19 samples

Serial # 3030		Top			
Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2000.07.27 @ 17:57:16	0.60278		1308.34	115.08	
2000.07.27 @ 17:57:26	0.60556		1308.36	115.28	
2000.07.27 @ 17:59:06	0.63333		1308.70	117.04	
2000.07.27 @ 17:59:16	0.63611		1309.36	117.18	
2000.07.27 @ 17:59:26	0.63889	4697.00	1310.07	117.32	4697
2000.07.27 @ 17:59:36	0.64167		1310.15	117.45	Recorder On Bottom
2000.07.27 @ 17:59:46	0.64444		1310.15	117.58	
2000.07.27 @ 17:59:56	0.64722		1310.19	117.70	
2000.07.27 @ 18:03:06	0.70000		1310.97	119.32	
2000.07.27 @ 18:06:16	0.75278		1311.63	119.95	
2000.07.27 @ 18:09:26	0.80556		1312.15	120.21	
2000.07.27 @ 18:12:36	0.85833		1312.60	120.33	
2000.07.27 @ 18:15:46	0.91111		1313.08	120.41	
2000.07.27 @ 18:18:56	0.96389		1313.46	120.45	
2000.07.27 @ 18:22:06	1.01667		1313.85	120.48	
2000.07.27 @ 18:25:16	1.06944		1314.22	120.51	
2000.07.27 @ 18:28:26	1.12222		1314.59	120.52	
2000.07.27 @ 18:31:36	1.17500		1314.91	120.55	
2000.07.27 @ 18:34:46	1.22778		1315.19	120.55	
2000.07.27 @ 18:37:56	1.28056		1315.53	120.57	
2000.07.27 @ 18:41:06	1.33333		1315.87	120.57	
2000.07.27 @ 18:44:16	1.38611		1316.11	120.58	
2000.07.27 @ 18:47:26	1.43889		1316.43	120.59	
2000.07.27 @ 18:50:36	1.49167		1316.70	120.59	
2000.07.27 @ 18:53:46	1.54444		1316.94	120.60	
2000.07.27 @ 18:56:56	1.59722		1317.20	120.60	
2000.07.27 @ 19:00:06	1.65000		1317.46	120.61	
2000.07.27 @ 19:03:16	1.70278		1317.70	120.61	
2000.07.27 @ 19:06:26	1.75556		1317.94	120.62	
2000.07.27 @ 19:09:36	1.80833		1318.16	120.62	
2000.07.27 @ 19:12:46	1.86111		1318.38	120.62	
2000.07.27 @ 19:15:56	1.91389		1318.60	120.62	
2000.07.27 @ 19:19:06	1.96667		1318.79	120.63	
2000.07.27 @ 19:22:16	2.01944		1318.99	120.63	
2000.07.27 @ 19:25:26	2.07222		1319.23	120.64	
2000.07.27 @ 19:28:36	2.12500		1319.44	120.64	
2000.07.27 @ 19:31:46	2.17778		1319.63	120.64	
2000.07.27 @ 19:34:56	2.23056		1319.83	120.64	
2000.07.27 @ 19:38:06	2.28333		1319.94	120.64	
2000.07.27 @ 19:41:16	2.33611		1320.17	120.64	
2000.07.27 @ 19:44:26	2.38889		1320.38	120.65	

Printing every 19 samples

Serial # 3030		Top			
Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2000.07.27 @ 19:47:36	2.44167		1320.56	120.65	
2000.07.27 @ 19:50:46	2.49444		1320.72	120.66	
2000.07.27 @ 19:53:56	2.54722		1320.84	120.66	
2000.07.27 @ 19:57:06	2.60000		1321.04	120.66	
2000.07.27 @ 20:00:16	2.65278		1321.22	120.66	
2000.07.27 @ 20:03:26	2.70556		1321.40	120.67	
2000.07.27 @ 20:06:36	2.75833		1321.54	120.67	
2000.07.27 @ 20:09:46	2.81111		1321.68	120.67	
2000.07.27 @ 20:12:56	2.86389		1321.82	120.68	
2000.07.27 @ 20:16:06	2.91667		1322.04	120.68	
2000.07.27 @ 20:19:16	2.96944		1322.20	120.68	
2000.07.27 @ 20:22:26	3.02222		1322.30	120.68	
2000.07.27 @ 20:25:36	3.07500		1322.47	120.68	
2000.07.27 @ 20:28:46	3.12778		1322.61	120.69	
2000.07.27 @ 20:31:56	3.18056		1322.77	120.69	
2000.07.27 @ 20:35:06	3.23333		1322.91	120.69	
2000.07.27 @ 20:38:16	3.28611		1323.01	120.69	
2000.07.27 @ 20:41:26	3.33889		1323.13	120.70	
2000.07.27 @ 20:44:36	3.39167		1323.33	120.70	
2000.07.27 @ 20:47:46	3.44444		1323.43	120.70	
2000.07.27 @ 20:50:56	3.49722		1323.55	120.70	
2000.07.27 @ 20:54:06	3.55000		1323.69	120.71	
2000.07.27 @ 20:57:16	3.60278		1323.82	120.70	
2000.07.27 @ 21:00:26	3.65556		1323.95	120.70	
2000.07.27 @ 21:03:36	3.70833		1324.07	120.71	
2000.07.27 @ 21:06:46	3.76111		1324.17	120.71	
2000.07.27 @ 21:09:56	3.81389		1324.33	120.71	
2000.07.27 @ 21:13:06	3.86667		1324.43	120.71	
2000.07.27 @ 21:16:16	3.91944		1324.57	120.72	
2000.07.27 @ 21:19:26	3.97222		1324.67	120.72	
2000.07.27 @ 21:26:06	4.08333		1325.23	120.40	
2000.07.27 @ 21:45:06	4.40000		1325.97	120.33	
2000.07.27 @ 22:04:06	4.71667		1326.59	120.31	
2000.07.27 @ 22:23:06	5.03333		1327.23	120.31	
2000.07.27 @ 22:42:06	5.35000		1327.77	120.30	
2000.07.27 @ 23:01:06	5.66667		1328.31	120.30	
2000.07.27 @ 23:20:06	5.98333		1328.83	120.30	
2000.07.27 @ 23:39:06	6.30000		1329.33	120.30	
2000.07.27 @ 23:58:06	6.61667		1329.83	120.30	
2000.07.28 @ 00:17:06	6.93333		1330.27	120.29	
2000.07.28 @ 00:36:06	7.25000		1330.71	120.30	

Printing every 19 samples

Serial # 3030		Top			
Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2000.07.28 @ 00:55:06	7.56667		1331.19	120.29	
2000.07.28 @ 01:14:06	7.88333		1331.61	120.30	
2000.07.28 @ 01:33:06	8.20000		1331.99	120.30	
2000.07.28 @ 01:52:06	8.51667		1332.36	120.29	
2000.07.28 @ 02:11:06	8.83333		1332.74	120.28	
2000.07.28 @ 02:30:06	9.15000		1333.10	120.29	
2000.07.28 @ 02:49:06	9.46667		1333.44	120.30	
2000.07.28 @ 03:08:06	9.78333		1333.80	120.29	
2000.07.28 @ 03:27:06	10.10000		1334.16	120.29	
2000.07.28 @ 03:46:06	10.41667		1334.46	120.29	
2000.07.28 @ 04:05:06	10.73333		1334.79	120.29	
2000.07.28 @ 04:24:06	11.05000		1335.12	120.29	
2000.07.28 @ 04:43:06	11.36667		1335.43	120.29	
2000.07.28 @ 05:02:06	11.68333		1335.69	120.29	
2000.07.28 @ 05:21:06	12.00000		1335.94	120.30	
2000.07.28 @ 05:40:06	12.31667		1336.27	120.30	
2000.07.28 @ 05:59:06	12.63333		1336.52	120.29	
2000.07.28 @ 06:18:06	12.95000		1336.80	120.31	
2000.07.28 @ 06:37:06	13.26667		1337.04	120.30	
2000.07.28 @ 06:56:06	13.58333		1337.38	120.28	
2000.07.28 @ 07:15:06	13.90000		1337.56	120.29	
2000.07.28 @ 07:34:06	14.21667		1337.84	120.29	
2000.07.28 @ 07:53:06	14.53333		1338.10	120.30	
2000.07.28 @ 08:12:06	14.85000		1338.33	120.30	
2000.07.28 @ 08:31:06	15.16667		1338.59	120.30	
2000.07.28 @ 08:50:06	15.48333		1338.77	120.30	
2000.07.28 @ 09:09:06	15.80000		1339.03	120.30	
2000.07.28 @ 09:28:06	16.11667		1339.25	120.31	
2000.07.28 @ 09:47:06	16.43333		1339.49	120.30	
2000.07.28 @ 10:06:06	16.75000		1339.69	120.30	
2000.07.28 @ 10:25:06	17.06667		1339.89	120.31	
2000.07.28 @ 10:44:06	17.38333		1340.15	120.31	
2000.07.28 @ 11:03:06	17.70000		1340.32	120.31	
2000.07.28 @ 11:22:06	18.01667		1340.48	120.30	
2000.07.28 @ 11:41:06	18.33333		1340.75	120.30	
2000.07.28 @ 12:00:06	18.65000		1340.94	120.30	
2000.07.28 @ 12:19:06	18.96667		1341.12	120.30	
2000.07.28 @ 12:38:06	19.28333		1341.30	120.31	
2000.07.28 @ 12:57:06	19.60000		1341.51	120.30	
2000.07.28 @ 13:16:06	19.91667		1341.68	120.31	
2000.07.28 @ 13:35:06	20.23333		1341.86	120.31	
Printing every 19 samples					

Serial # 3030 Top

Actual Time (Date/Time)	Relative Time (Hours)	Depth (ft)	Pressure (psig)	Temperature (deg F)	Comments
2000.07.28 @ 13:54:06	20.55000		1342.03	120.31	
2000.07.28 @ 14:13:06	20.86667		1342.14	120.31	
2000.07.28 @ 14:32:06	21.18333		1342.41	120.31	
2000.07.28 @ 14:51:06	21.50000		1342.51	120.32	
2000.07.28 @ 15:10:06	21.81667		1342.71	120.32	
2000.07.28 @ 15:29:06	22.13333		1342.87	120.31	
2000.07.28 @ 15:48:06	22.45000		1343.01	120.31	
2000.07.28 @ 16:07:06	22.76667		1343.17	120.31	
2000.07.28 @ 16:26:06	23.08333		1343.33	120.31	
2000.07.28 @ 16:45:06	23.40000		1343.51	120.31	
2000.07.28 @ 17:04:06	23.71667		1343.67	120.32	
2000.07.28 @ 17:17:06	23.93333		1339.35	120.16	
2000.07.28 @ 17:18:06	23.95000		1339.71	120.14	
2000.07.28 @ 17:19:06	23.96667		1339.61	120.13	Recorder Off Bottom
2000.07.28 @ 17:20:06	23.98333		1333.02	120.11	
2000.07.28 @ 17:21:06	24.00000		1328.57	120.08	
2000.07.28 @ 17:22:06	24.01667		1330.09	120.03	
2000.07.28 @ 17:41:06	24.33333		1333.86	120.07	
2000.07.28 @ 18:00:06	24.65000		1300.95	119.93	
2000.07.28 @ 18:19:06	24.96667		1315.51	120.04	
2000.07.28 @ 18:38:06	25.28333		1323.56	120.13	
2000.07.28 @ 18:57:06	25.60000		1293.52	119.97	
2000.07.28 @ 19:03:06	25.70000		1282.49	119.80	
2000.07.28 @ 19:04:06	25.71667		1281.45	119.84	
2000.07.28 @ 19:05:06	25.73333	0.00	1272.31	119.85	Recorder @ Surface

Printing every 19 samples

