

6" Di/LINE test
Sept 19, 2014

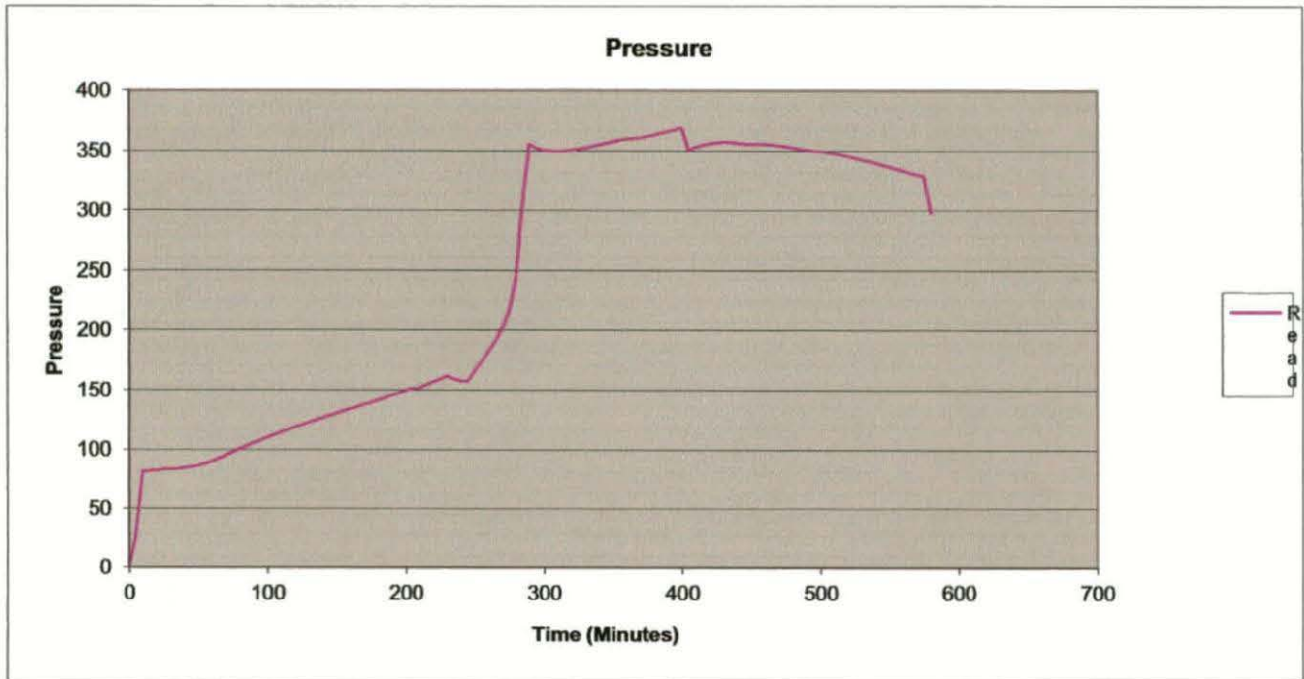
Data Collection Report

Gauge Information

Serial number	763027
Model	2KPSIXP2I
Message store	-----
Units	PSI

Run Info

Start time	9/19/14 8:07:12 AM
Stop time	9/19/14 5:50:26 PM
Logging Interval	300



Serial number 763027
 Model 2KPSIXP2I
 Units PSI
 Firmware version D0016 Message store -----
 Run index 4
 Logging Type Actual
 Logging Interval 300
 Start time 9/19/2014 8:07
 Stop time 9/19/2014 17:50
 Time Reading

Event Event Data
 Battery OK
 Logging Interval, 300
 Tare, -1.5

0	
0	
0	
0	0
5	27.1
10	82.1
15	82.2
20	82.6
25	83.4
30	83.8
35	84
40	84.7
45	85.5
50	86.6
55	88.2
60	90.3
65	92.6
70	95.2
75	97.8
80	100.4
85	102.9
90	105.4
95	107.7
100	110
105	112.3
110	114.5
115	116.6
120	118.7
125	120.7
130	122.7
135	124.6
140	126.5
145	128.4
150	130.3
155	132.1
160	133.9
165	135.7
170	137.6
175	139.4
180	141.2
185	143.1
190	145.1

195	147.1
200	149.2
205	151.3
210	151.3
215	154.1
220	156.6
225	159
230	161.5
235	159.2
240	157.3
245	157.3
250	165.8
255	173.6
260	181.5
265	190.4
270	200.8
275	215.8
280	243.8
285	307.3
290	355.6
295	352.2
300	350.6
305	350
310	349.8
315	350.1
320	350.7
325	351.5
330	352.4
335	353.5
340	354.8
345	356.2
350	357.5
355	358.7
360	359.6
365	360
370	360.6
375	361.7
380	363.1
385	364.5
390	366
395	367.5
400	369
405	351
410	352.9
415	354.5
420	355.8
425	356.8
430	357.2
435	357.1
440	356.4
445	356
450	355.8

455	355.8
460	355.7
465	355.2
470	354.5
475	353.7
480	352.8
485	351.8
490	350.9
495	350.2
500	349.6
505	348.9
510	347.8
515	346.6
520	345.3
525	344.1
530	342.8
535	341.5
540	340
545	338.5
550	336.9
555	335.4
560	333.8
565	332.3
570	330.7
575	329.1
580	297.7

6" O.I. LINE Test
Sept 19, 2014

Certificate of Calibration

Report number FASTCAL-C00019

Manufacturer	Model	Gauge Number	Serial Number	Calibration Date	Expiration Date
Crystal	Digital Test Gauge XP2i	2000psi WC Striegel	763027	9/18/2014	9/18/2015

Model Uncertainty
+/- ASME 4A of span (0.1%)

All instrument calibrations are verified for accuracy before they are shipped. The recommended calibration interval for this instrument is 12 months from the date of verification. Your particular quality assurance requirements may supersede this recommendation.

As Received Condition: In tolerance

As Left Condition: In tolerance

Laboratory ambient conditions throughout this calibration were:

Temperature 68 to 72° C
Humidity 30 to 32% RH
Pressure 82 to 84 kPa

Reference Standards used in this calibration are traceable to the National Institute of Standards and Technology of the United States, through the following report numbers:

Manufacturer	Model	Serial Number	Report Number	Due Date	Reference Uncertainty
Crystal Engineering	15KPSIBXP2i	465591	194285	5-Apr-15	0-20% of FS: $\pm(0.02\%$ of FS), 20%-100% of FS: $\pm(0.1\%$ of Rdg)

This certificate shall not be reproduced except in full, without written approval.



Laboratory Representative

Quality Representative

Test includes
Pipe from CPL to MWP, MWP to West End WTR Plant
(5178') (20,740')
Launchers, And Receivers

Test Results

Report number FASTCAL-C00019

As Received Test Results

2000 PSI

Reference Reading	Gauge Reading	Allowable Tolerance	Difference	Difference (% of FS)	Condition
0	0	2	0	0.00%	Pass
400	400	2	0	0.00%	Pass
800	799	2	-1	-0.05%	Pass
1200	1199	2	-1	-0.05%	Pass
1600	1599	2	-1	-0.05%	Pass
2000	1999	2	-1	-0.05%	Pass
1600	1599	2	-1	-0.05%	Pass
1200	1200	2	0	0.00%	Pass
800	800	2	0	0.00%	Pass
400	400	2	0	0.00%	Pass
0	0	2	0	0.00%	Pass

As Left Test Results

2000 PSI

Reference Reading	Gauge Reading	Allowable Tolerance	Difference	Difference (% of FS)	Condition
0	0	2	0	0.00%	Pass
400	400	2	0	0.00%	Pass
800	799	2	-1	-0.05%	Pass
1200	1199	2	-1	-0.05%	Pass
1600	1599	2	-1	-0.05%	Pass
2000	1999	2	-1	-0.05%	Pass
1600	1599	2	-1	-0.05%	Pass
1200	1200	2	0	0.00%	Pass
800	800	2	0	0.00%	Pass
400	400	2	0	0.00%	Pass
0	0	2	0	0.00%	Pass

AR Head correction:

0 PSI

AL Head correction:

0 PSI

Location: 6" Oil Line

W. C. Striegel Inc.

Pipe Test Log

[illegible]

Ch. H. J.

Signed - Dead Wt. Operator

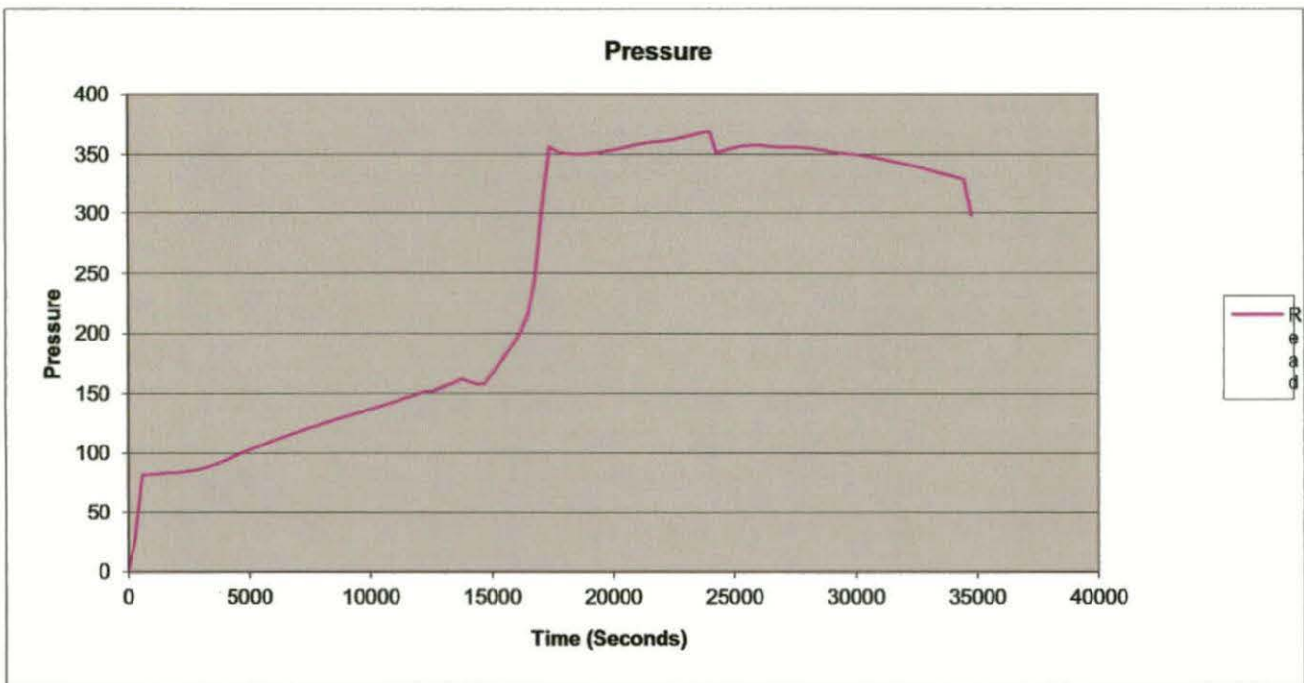
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Message store	_____
Units	PSI

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Serial number 763027
Model 2KPSIXP2I
Units PSI
Firmware version D0016 Message store -----
Run index 4
Logging Type Actual
Logging Interval 300
Start time 9/19/2014 8:07
Stop time 9/19/2014 17:50

Time	Reading	Event	Event Data
0		Battery OK	
0		Logging Interval, 300	
0		Tare, -1.5	
0	0		
300	27.1		
600	82.1		
900	82.2		
1200	82.6		
1500	83.4		
1800	83.8		
2100	84		
2400	84.7		
2700	85.5		
3000	86.6		
3300	88.2		
3600	90.3		
3900	92.6		
4200	95.2		
4500	97.8		
4800	100.4		
5100	102.9		
5400	105.4		
5700	107.7		
6000	110		
6300	112.3		
6600	114.5		
6900	116.6		
7200	118.7		
7500	120.7		
7800	122.7		
8100	124.6		
8400	126.5		
8700	128.4		
9000	130.3		
9300	132.1		
9600	133.9		
9900	135.7		
10200	137.6		
10500	139.4		
10800	141.2		
11100	143.1		
11400	145.1		

11700	147.1
12000	149.2
12300	151.3
12600	151.3
12900	154.1
13200	156.6
13500	159
13800	161.5
14100	159.2
14400	157.3
14700	157.3
15000	165.8
15300	173.6
15600	181.5
15900	190.4
16200	200.8
16500	215.8
16800	243.8
17100	307.3
17400	355.6
17700	352.2
18000	350.6
18300	350
18600	349.8
18900	350.1
19200	350.7
19500	351.5
19800	352.4
20100	353.5
20400	354.8
20700	356.2
21000	357.5
21300	358.7
21600	359.6
21900	360
22200	360.6
22500	361.7
22800	363.1
23100	364.5
23400	366
23700	367.5
24000	369
24300	351
24600	352.9
24900	354.5
25200	355.8
25500	356.8
25800	357.2
26100	357.1
26400	356.4
26700	356
27000	355.8

27300	355.8
27600	355.7
27900	355.2
28200	354.5
28500	353.7
28800	352.8
29100	351.8
29400	350.9
29700	350.2
30000	349.6
30300	348.9
30600	347.8
30900	346.6
31200	345.3
31500	344.1
31800	342.8
32100	341.5
32400	340
32700	338.5
33000	336.9
33300	335.4
33600	333.8
33900	332.3
34200	330.7
34500	329.1
34800	297.7