

Fire Test Report

API Standard 6FB, Fourth Edition, 2019

Performed for

GPT Industries

www.gptindustries.com



**2 inch Class 2500 Evolution® Isolation Gasket
with GYLON® ID-Seal and Fire-safe
Dielectric Coated Inconel 718 C-Ring with
DH SS Washers and G11 Sleeves**

Project Number: 219510

Test Date: December 11, 2019



Performed by

YARMOUTH RESEARCH AND TECHNOLOGY, LLC

434 Walnut Hill Road
North Yarmouth, ME 04097 USA
(207) 829-5359

info@yarmouthresearch.com
www.yarmouthresearch.com

Yarmouth Research and Technology, LLC

API 6FB FIRE TEST REPORT

Customer: GPT

Date: 12/11/2019

Project Number: 219510

Product Code: 2 inch Class 2500 Evolution Gasket w/ DHX Kit

Specification: API 6FB, Fourth Edition, 2019

Non-Bending, Type 1 Test

Gasket Thickness: 0.187 inches

Seal Area OD: 2.625 **Seal Area ID:** 2.125 inches

Mean Seal Diameter: 2.375 inches

Mean Circumference: 7.5 inches

Allowable Leakage: 7.5 ml/min

Nominal Test Pressure: 555 psig

YRT Technician: Dean Frank

Version of YRT's FIRE-Control 6FB Software: B

Equipment Confirmed to be in Calibration to NIST Standards: Yes

After Assembly - Electrical Isolation Test

Bolt to Flange:	>10	GOhms	with 50 volts
	20	GOhms	with 500 volts
	20	GOhms	with 1000 volts
Flange to Flange:	15.5	GOhms	with 50 volts
	11	GOhms	with 1000 volts

Burn and Cool Down Test

Burn Start Time:	10:47:00	
Burn / Cooldown Duration:	60	minutes
Average Pressure During Burn/Cooldown:	4835	psig
Leak Rate During Burn/Cool Down:	0.5	ml/min
Allowable External Leak Rate:	7.5	ml/min
Amount of Time of Avg. Cal. Block > 1200 deg.:	21.8	minutes
Were Test Conditions Within Compliance?	Yes	
Was the Leakage Below the Allowable?	Yes	

Depressurization - Repressurization Test

Average Pressure During Test:	4731	psig
Gasket Leak Rate:	0	ml/min
Allowable External Leak Rate:	7.5	ml/min
Was the Leakage Below the Allowable?	Yes	
Does the Gasket Pass or Fail API 6FB?	PASS	

Certified By:



Matthew J. Wasielewski, PE

President and Manager

Yarmouth Research and Technology, LLC



Temperature verses Time Chart

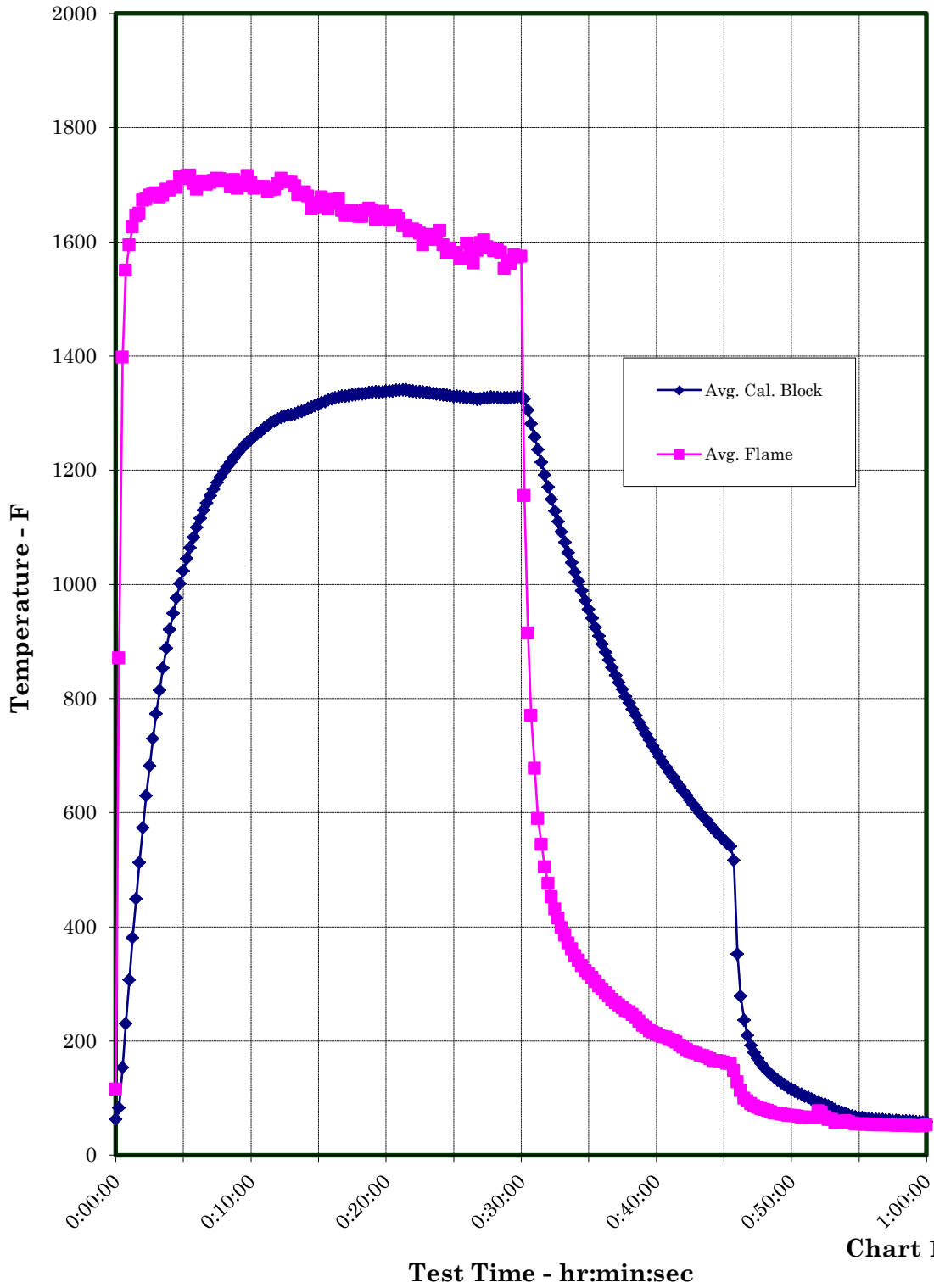


Chart 1

Yarmouth Research and Technology, LLC

Pressure versus Time Chart

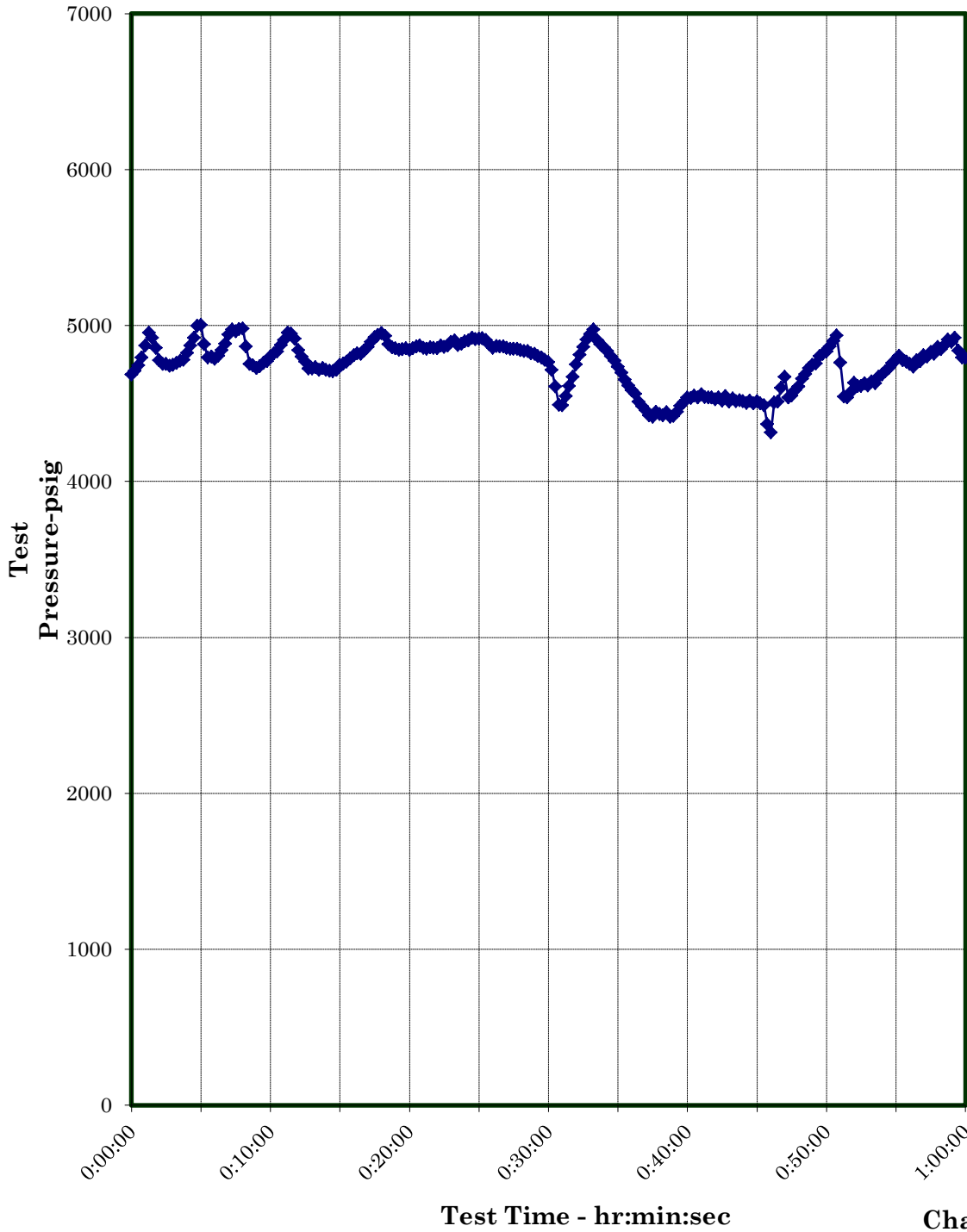
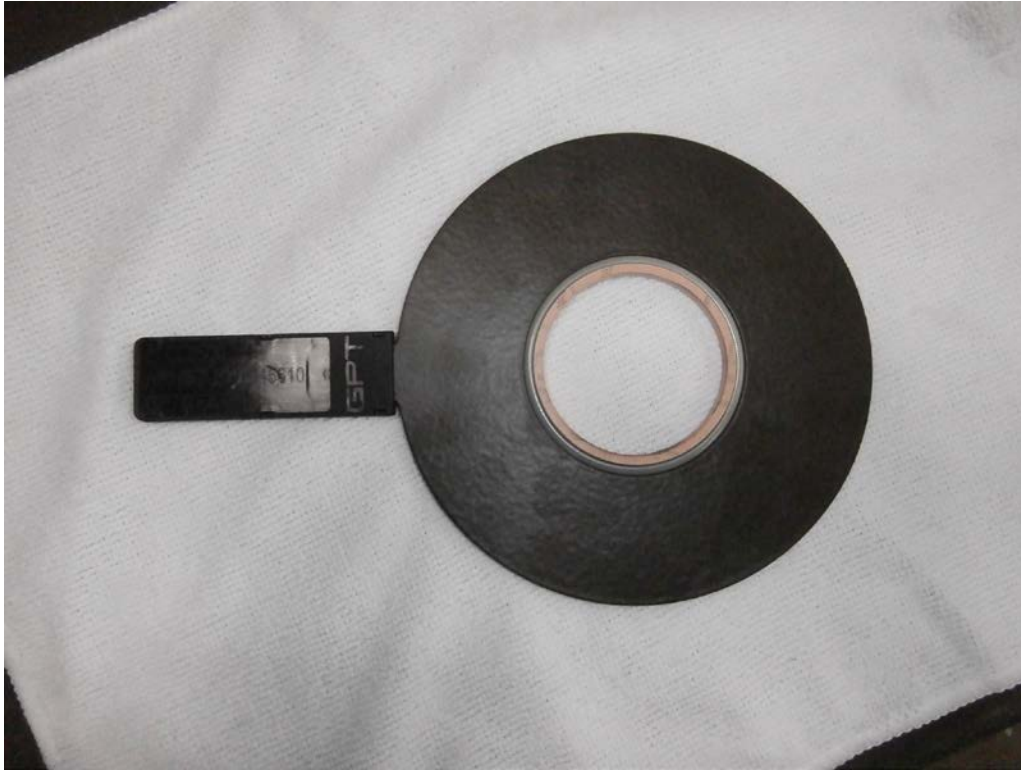


Chart 2

Yarmouth Research and Technology, LLC



Test Gasket Prior to Burn

Yarmouth Research and Technology, LLC



Test Setup Prior to Burn



Test Gasket During Burn



Test Gasket During Burn



Test Gasket Post-Burn

Yarmouth Research and Technology, LLC

Fire Test Information

Customer: GPT

Date: 12/11/2019

Product Code: 2 inch Class 2500 Evolution Gasket w/ DHX Kit

Project Number: 219510

Fire Test Raw Data

Time	Pressure (psig)	Water Volume (mls)	Cal. 1	Cal. 2	Cal. 3	Cal. 4	Average	Flame 1	Flame 2	Flame 3	Flame 4	Average
			Block	Block	Block	Block	Block	Block	Temp - F	Temp - F	Temp - F	Temp - F
			Temp - F	Temp - F	Temp - F	Temp - F	Temp - F	Temp - F	Temp - F	Temp - F	Temp - F	Temp - F
10:47:00	4685	43608	61	64	64	63	63	129	115	108	108	115
10:47:15	4710	43422	86	81	88	77	83	918	696	748	1119	870
10:47:30	4744	43467	160	149	165	140	154	1404	1364	1258	1564	1398
10:47:45	4794	43518	232	228	250	210	230	1513	1641	1357	1688	1550
10:48:00	4872	43182	307	306	334	280	307	1542	1684	1450	1699	1594
10:48:15	4954	43223	378	379	414	351	381	1573	1706	1503	1720	1626
10:48:30	4920	43222	446	450	487	412	449	1584	1771	1528	1697	1645
10:48:45	4856	43066	509	516	554	471	513	1596	1744	1562	1697	1650
10:49:00	4776	43261	572	577	617	527	573	1641	1764	1558	1726	1672
10:49:15	4754	43227	626	635	675	581	629	1650	1774	1548	1726	1675
10:49:30	4753	43442	678	691	729	630	682	1665	1762	1540	1758	1681
10:49:45	4742	43270	721	741	779	676	729	1657	1796	1506	1771	1683
10:50:00	4746	43407	763	788	824	718	773	1674	1785	1533	1749	1685
10:50:15	4758	43002	804	831	865	757	814	1675	1778	1517	1742	1678
10:50:30	4774	43315	842	873	903	795	853	1681	1782	1506	1755	1681
10:50:45	4780	43221	876	909	939	828	888	1679	1794	1522	1771	1692
10:51:00	4823	43186	909	943	972	858	921	1679	1801	1497	1782	1690
10:51:15	4871	43237	936	973	1000	887	949	1684	1816	1513	1774	1697
10:51:30	4920	42967	963	1002	1027	912	976	1665	1764	1598	1751	1695
10:51:45	4997	42960	990	1027	1053	934	1001	1663	1809	1587	1792	1713
10:52:00	5003	43131	1011	1053	1076	954	1024	1661	1791	1629	1758	1710
10:52:15	4879	42919	1035	1074	1098	972	1045	1666	1800	1612	1783	1715
10:52:30	4795	42928	1054	1096	1117	990	1064	1663	1782	1612	1807	1716
10:52:45	4802	42955	1072	1116	1135	1006	1082	1659	1738	1620	1791	1702
10:53:00	4784	42935	1090	1134	1153	1020	1099	1674	1740	1605	1746	1691
10:53:15	4805	42952	1108	1150	1170	1035	1116	1666	1756	1605	1792	1705
10:53:30	4840	42940	1123	1164	1184	1047	1130	1663	1764	1598	1800	1706

Yarmouth Research and Technology, LLC

10:53:45	4883	42957	1134	1180	1197	1060	1143	1674	1744	1603	1780	1700
10:54:00	4941	42872	1146	1193	1209	1071	1155	1665	1740	1634	1774	1703
10:54:15	4975	42914	1157	1206	1220	1083	1167	1672	1753	1612	1791	1707
10:54:30	4964	42851	1168	1218	1233	1092	1178	1677	1753	1627	1787	1711
10:54:45	4978	42847	1177	1229	1242	1103	1188	1679	1758	1609	1794	1710
10:55:00	4979	42799	1186	1240	1251	1112	1197	1675	1764	1598	1787	1706
10:55:15	4864	42786	1193	1249	1260	1121	1206	1679	1760	1571	1814	1706
10:55:30	4752	42778	1200	1260	1267	1128	1214	1668	1737	1582	1796	1696
10:55:45	4744	42761	1209	1269	1274	1135	1222	1674	1764	1575	1819	1708
10:56:00	4727	42818	1216	1276	1281	1143	1229	1681	1742	1603	1746	1693
10:56:15	4738	42715	1222	1283	1288	1150	1236	1688	1749	1585	1789	1703
10:56:30	4758	42661	1227	1292	1294	1157	1243	1681	1742	1573	1796	1698
10:56:45	4770	42721	1233	1299	1299	1162	1248	1681	1776	1591	1812	1715
10:57:00	4801	42702	1234	1306	1305	1168	1253	1675	1762	1564	1812	1703
10:57:15	4820	42618	1240	1312	1310	1173	1259	1684	1746	1560	1783	1693
10:57:30	4833	42657	1245	1317	1314	1179	1264	1697	1735	1575	1780	1697
10:57:45	4874	42573	1249	1323	1319	1184	1269	1686	1728	1573	1794	1695
10:58:00	4907	42521	1254	1328	1323	1188	1273	1686	1731	1562	1805	1696
10:58:15	4954	42562	1260	1333	1326	1193	1278	1684	1722	1551	1792	1687
10:58:30	4949	42541	1265	1337	1330	1198	1283	1675	1738	1533	1816	1691
10:58:45	4917	42530	1267	1342	1332	1202	1286	1688	1735	1535	1809	1692
10:59:00	4840	42515	1272	1346	1333	1207	1290	1683	1783	1537	1801	1701
10:59:15	4801	42478	1272	1350	1337	1209	1292	1679	1814	1526	1823	1711
10:59:30	4767	42368	1272	1353	1339	1213	1294	1675	1805	1528	1810	1705
10:59:45	4723	42431	1270	1357	1341	1215	1296	1677	1816	1519	1807	1705
11:00:00	4725	42463	1269	1360	1344	1216	1297	1683	1812	1524	1800	1705
11:00:15	4731	42423	1269	1362	1346	1218	1299	1692	1783	1495	1823	1698
11:00:30	4715	42397	1269	1364	1348	1222	1301	1693	1755	1463	1816	1682
11:00:45	4727	42405	1270	1366	1350	1224	1303	1693	1780	1463	1803	1685
11:01:00	4714	42354	1272	1369	1351	1227	1305	1686	1776	1467	1819	1687
11:01:15	4708	42347	1276	1371	1353	1231	1308	1690	1753	1468	1809	1680
11:01:30	4705	42323	1279	1373	1355	1233	1310	1692	1708	1463	1769	1658
11:01:45	4715	42297	1283	1375	1357	1236	1313	1690	1729	1479	1774	1668
11:02:00	4746	42284	1285	1377	1360	1238	1315	1688	1706	1483	1765	1661
11:02:15	4756	42232	1290	1378	1362	1242	1318	1686	1751	1470	1807	1679
11:02:30	4768	42227	1292	1382	1364	1243	1320	1683	1733	1483	1785	1671
11:02:45	4788	42243	1296	1384	1366	1245	1323	1697	1695	1458	1776	1657
11:03:00	4809	42178	1297	1386	1368	1249	1325	1692	1733	1490	1778	1673

Yarmouth Research and Technology, LLC

11:03:15	4820	42219	1297	1389	1369	1251	1327	1699	1731	1497	1742	1667
11:03:30	4817	42171	1297	1391	1371	1252	1328	1688	1767	1504	1740	1675
11:03:45	4837	42230	1296	1395	1373	1254	1330	1683	1713	1485	1737	1655
11:04:00	4862	42153	1294	1396	1373	1254	1329	1686	1702	1429	1767	1646
11:04:15	4894	42123	1292	1398	1375	1256	1330	1693	1672	1497	1722	1646
11:04:30	4925	42104	1292	1400	1377	1258	1332	1683	1668	1510	1758	1655
11:04:45	4938	42100	1290	1402	1378	1258	1332	1681	1670	1485	1771	1652
11:05:00	4951	42096	1288	1404	1380	1260	1333	1684	1665	1477	1751	1644
11:05:15	4934	42039	1288	1405	1380	1261	1334	1697	1677	1456	1747	1644
11:05:30	4879	41992	1288	1405	1382	1261	1334	1683	1715	1440	1783	1655
11:05:45	4860	42000	1287	1409	1384	1263	1336	1683	1675	1510	1764	1658
11:06:00	4854	42047	1287	1411	1384	1263	1336	1679	1681	1494	1767	1655
11:06:15	4843	41982	1285	1414	1386	1263	1337	1666	1674	1459	1755	1639
11:06:30	4846	41933	1283	1416	1387	1261	1337	1668	1733	1429	1778	1652
11:06:45	4853	41999	1281	1418	1387	1261	1337	1679	1729	1402	1800	1653
11:07:00	4841	41826	1281	1422	1389	1261	1338	1672	1681	1440	1769	1641
11:07:15	4853	41914	1279	1422	1389	1261	1338	1670	1677	1454	1749	1638
11:07:30	4865	41894	1278	1423	1391	1261	1338	1657	1690	1467	1767	1645
11:07:45	4870	41918	1279	1427	1393	1261	1340	1647	1737	1452	1747	1646
11:08:00	4857	41790	1278	1429	1393	1260	1340	1650	1711	1431	1767	1640
11:08:15	4851	41838	1276	1431	1395	1260	1341	1670	1688	1416	1735	1627
11:08:30	4861	41777	1276	1431	1396	1258	1340	1656	1652	1459	1747	1629
11:08:45	4857	41773	1272	1432	1396	1256	1339	1652	1636	1438	1746	1618
11:09:00	4852	41793	1267	1432	1398	1256	1338	1634	1674	1422	1758	1622
11:09:15	4870	41743	1263	1434	1398	1254	1337	1634	1661	1418	1765	1620
11:09:30	4864	41701	1261	1436	1400	1251	1337	1623	1674	1414	1749	1615
11:09:45	4872	41679	1258	1438	1400	1249	1336	1623	1645	1402	1706	1594
11:10:00	4895	41670	1256	1438	1402	1247	1336	1611	1679	1423	1715	1607
11:10:15	4903	41620	1252	1440	1404	1243	1335	1620	1674	1416	1738	1612
11:10:30	4874	41638	1249	1441	1404	1242	1334	1612	1665	1414	1724	1604
11:10:45	4883	41629	1247	1441	1405	1240	1333	1612	1670	1431	1733	1612
11:11:00	4897	41573	1243	1443	1405	1238	1332	1623	1684	1440	1731	1620
11:11:15	4903	41606	1242	1443	1407	1236	1332	1620	1638	1427	1693	1595
11:11:30	4920	41574	1240	1443	1407	1234	1331	1620	1645	1395	1659	1580
11:11:45	4913	41538	1236	1443	1409	1233	1330	1614	1641	1416	1683	1589
11:12:00	4915	41519	1233	1441	1411	1231	1329	1620	1612	1396	1695	1581
11:12:15	4918	41496	1231	1443	1413	1231	1330	1623	1621	1353	1722	1580
11:12:30	4905	41537	1229	1443	1413	1229	1329	1594	1645	1332	1711	1571

Yarmouth Research and Technology, LLC

11:12:45	4879	41447	1227	1443	1414	1227	1328	1609	1639	1353	1684	1571
11:13:00	4857	41483	1222	1445	1414	1225	1327	1611	1668	1366	1744	1597
11:13:15	4868	41413	1220	1447	1416	1224	1327	1596	1674	1380	1652	1576
11:13:30	4866	41380	1216	1447	1416	1222	1325	1585	1618	1398	1648	1562
11:13:45	4864	41404	1215	1445	1416	1220	1324	1621	1618	1360	1738	1584
11:14:00	4857	41384	1216	1447	1418	1218	1325	1629	1645	1333	1785	1598
11:14:15	4850	41392	1218	1449	1418	1220	1326	1623	1638	1362	1789	1603
11:14:30	4852	41328	1220	1450	1418	1218	1327	1602	1632	1380	1751	1591
11:14:45	4852	41341	1222	1450	1420	1218	1328	1573	1679	1366	1735	1588
11:15:00	4841	41262	1222	1450	1422	1215	1327	1593	1657	1341	1744	1584
11:15:15	4835	41319	1220	1452	1423	1213	1327	1605	1674	1359	1708	1587
11:15:30	4835	41301	1218	1452	1423	1211	1326	1589	1657	1373	1708	1582
11:15:45	4820	41246	1218	1452	1423	1211	1326	1609	1611	1346	1645	1553
11:16:00	4817	41240	1220	1452	1425	1209	1327	1587	1647	1324	1706	1566
11:16:15	4802	41254	1220	1454	1425	1207	1327	1594	1623	1315	1715	1562
11:16:30	4793	41211	1222	1454	1425	1207	1327	1602	1623	1350	1733	1577
11:16:45	4781	41172	1224	1454	1427	1206	1328	1594	1620	1368	1710	1573
11:17:00	4765	41118	1224	1454	1427	1206	1328	1593	1641	1360	1704	1575
11:17:15	4716	41113	1220	1449	1427	1202	1325	1164	1238	1026	1191	1155
11:17:30	4607	41134	1198	1420	1416	1184	1305	894	975	860	927	914
11:17:45	4492	41089	1173	1391	1400	1161	1281	741	801	757	781	770
11:18:00	4488	41113	1148	1366	1384	1135	1258	642	693	685	689	677
11:18:15	4547	41064	1125	1344	1364	1112	1236	568	615	549	624	589
11:18:30	4612	41020	1101	1319	1344	1090	1214	520	565	511	579	544
11:18:45	4670	41035	1078	1296	1324	1069	1192	482	514	480	540	504
11:19:00	4750	40930	1056	1270	1306	1047	1170	448	484	457	513	476
11:19:15	4813	40962	1035	1247	1287	1027	1149	424	457	437	489	452
11:19:30	4862	41003	1013	1225	1267	1008	1128	405	430	421	466	431
11:19:45	4909	40925	993	1209	1247	990	1110	388	412	410	450	415
11:20:00	4945	40960	973	1195	1227	972	1092	370	394	397	433	399
11:20:15	4973	40910	955	1177	1209	954	1074	356	376	388	419	385
11:20:30	4907	40882	937	1155	1191	937	1055	340	361	376	408	371
11:20:45	4881	40843	919	1134	1177	921	1038	331	351	365	396	361
11:21:00	4859	40800	903	1112	1164	905	1021	320	338	356	383	349
11:21:15	4836	40860	887	1090	1152	891	1005	316	329	347	372	341
11:21:30	4802	40788	873	1069	1137	874	988	306	320	338	363	332
11:21:45	4773	40821	856	1049	1121	860	972	298	311	329	354	323
11:22:00	4735	40774	842	1029	1105	847	956	295	304	324	345	317

Yarmouth Research and Technology, LLC

11:22:15	4698	40790	829	1011	1089	833	941	291	298	320	334	311
11:22:30	4653	40789	815	991	1071	820	924	284	291	313	327	304
11:22:45	4615	40741	801	973	1054	808	909	277	282	306	318	296
11:23:00	4586	40758	790	957	1038	795	895	273	275	302	311	290
11:23:15	4560	40670	775	941	1024	784	881	271	266	295	304	284
11:23:30	4511	40667	765	925	1008	772	868	266	261	289	297	278
11:23:45	4482	40618	752	909	993	761	854	261	253	286	289	272
11:24:00	4455	40636	741	892	979	750	841	255	246	282	282	266
11:24:15	4423	40635	730	878	964	739	828	252	243	277	279	263
11:24:30	4413	40562	720	864	950	730	816	252	239	271	271	258
11:24:45	4446	40510	709	849	936	720	804	248	234	268	262	253
11:25:00	4432	40470	700	835	923	711	792	248	230	268	257	251
11:25:15	4424	40501	689	822	910	702	781	244	226	262	253	246
11:25:30	4444	40546	680	810	898	691	770	241	225	253	244	241
11:25:45	4415	40480	671	795	885	682	758	234	219	248	237	235
11:26:00	4419	40417	662	784	873	673	748	226	214	239	228	227
11:26:15	4447	40444	653	772	860	664	737	225	210	237	223	224
11:26:30	4485	40448	644	759	847	657	727	219	207	228	217	218
11:26:45	4508	40425	635	748	837	648	717	219	205	225	212	215
11:27:00	4538	40404	626	738	826	640	708	217	201	226	207	213
11:27:15	4535	40382	619	727	813	631	698	214	198	223	203	210
11:27:30	4549	40322	610	716	802	624	688	214	192	225	198	207
11:27:45	4538	40304	603	705	793	617	680	216	190	226	194	207
11:28:00	4557	40282	595	696	783	610	671	210	187	223	190	203
11:28:15	4541	40270	588	685	774	603	663	208	185	221	189	201
11:28:30	4538	40247	581	676	763	595	654	205	185	216	185	198
11:28:45	4539	40236	574	667	752	588	645	199	181	208	181	192
11:29:00	4527	40213	567	658	743	583	638	194	178	205	180	189
11:29:15	4539	40170	561	649	734	576	630	189	176	199	176	185
11:29:30	4517	40072	554	640	725	568	622	185	172	194	172	181
11:29:45	4548	40112	547	631	716	561	614	183	171	194	171	180
11:30:00	4511	40067	541	624	707	556	607	181	167	194	169	178
11:30:15	4533	40084	534	615	698	549	599	180	163	189	167	175
11:30:30	4514	40021	529	608	689	543	592	180	162	189	163	174
11:30:45	4520	39993	522	601	682	538	586	178	162	185	160	171
11:31:00	4515	40058	516	592	673	532	578	176	158	180	158	168
11:31:15	4504	40042	511	585	666	525	572	171	156	181	154	166
11:31:30	4518	39985	505	577	657	520	565	171	154	183	153	165

Yarmouth Research and Technology, LLC

11:31:45	4499	39998	500	570	649	514	558	171	154	181	153	165
11:32:00	4513	39962	495	565	642	509	553	169	153	178	151	163
11:32:15	4499	39946	489	558	635	505	547	165	151	178	147	160
11:32:30	4489	39922	484	550	628	500	541	167	149	180	145	160
11:32:45	4365	39899	442	518	610	495	516	169	117	208	97	148
11:33:00	4315	39882	232	257	437	484	353	135	113	167	97	128
11:33:15	4507	39747	163	176	306	469	279	136	75	165	75	113
11:33:30	4513	39737	127	136	226	457	237	122	68	138	68	99
11:33:45	4599	39524	106	111	181	441	210	117	70	126	64	94
11:34:00	4672	39606	91	95	156	426	192	111	68	120	61	90
11:34:15	4537	39376	82	86	138	412	180	108	64	113	59	86
11:34:30	4550	39313	75	79	124	397	169	106	63	108	57	84
11:34:45	4586	39499	72	75	113	383	161	102	61	106	57	82
11:35:00	4609	39429	68	72	104	370	154	99	63	102	55	80
11:35:15	4660	39446	66	70	97	356	147	97	59	102	54	78
11:35:30	4688	39392	64	68	91	343	142	93	57	99	55	76
11:35:45	4725	39340	63	66	86	329	136	91	55	93	54	73
11:36:00	4747	39228	61	64	82	316	131	90	55	93	54	73
11:36:15	4755	39205	61	63	79	304	127	88	55	93	52	72
11:36:30	4804	39160	59	63	77	293	123	88	54	90	52	71
11:36:45	4818	39214	59	61	73	280	118	86	54	86	52	70
11:37:00	4832	39233	59	61	72	271	116	84	54	86	52	69
11:37:15	4865	39187	57	59	70	261	112	84	54	84	52	69
11:37:30	4900	39168	57	59	68	252	109	84	54	84	50	68
11:37:45	4937	39113	57	59	68	243	107	82	52	81	50	66
11:38:00	4762	39065	55	59	66	234	104	81	52	81	50	66
11:38:15	4544	39003	55	59	66	225	101	79	52	81	50	66
11:38:30	4537	39033	55	57	64	216	98	81	52	81	50	66
11:38:45	4573	39051	55	57	64	205	95	81	50	79	50	65
11:39:00	4631	39042	55	57	64	196	93	131	50	81	48	78
11:39:15	4612	38986	55	57	64	185	90	115	52	81	50	75
11:39:30	4612	38954	54	57	70	176	89	86	52	79	50	67
11:39:45	4630	38909	54	57	72	160	86	68	52	79	50	62
11:40:00	4615	38880	54	57	72	147	83	66	52	79	50	62
11:40:15	4640	38914	54	57	70	138	80	63	50	66	48	57
11:40:30	4628	38847	54	55	70	127	77	63	48	73	50	59
11:40:45	4670	38882	54	55	70	120	75	59	50	72	50	58
11:41:00	4686	38791	54	55	70	113	73	59	52	77	50	60

Yarmouth Research and Technology, LLC

11:41:15	4707	38805	54	54	68	104	70	55	50	79	50	59
11:41:30	4727	38771	54	54	68	99	69	57	48	70	48	56
11:41:45	4758	38742	54	54	66	95	67	55	50	64	48	54
11:42:00	4776	38737	54	54	63	91	66	57	48	63	48	54
11:42:15	4805	38701	54	55	63	90	66	57	48	63	48	54
11:42:30	4777	38696	54	54	61	90	65	57	48	61	48	54
11:42:45	4767	38678	54	54	61	88	64	57	48	63	48	54
11:43:00	4752	38666	54	54	59	86	63	55	48	61	48	53
11:43:15	4737	38633	54	54	59	84	63	55	48	63	48	54
11:43:30	4777	38659	54	54	59	82	62	55	48	61	48	53
11:43:45	4771	38587	54	54	57	82	62	55	48	61	48	53
11:44:00	4809	38508	52	54	57	81	61	55	48	61	48	53
11:44:15	4801	38591	52	54	57	81	61	55	48	59	48	53
11:44:30	4829	38498	52	54	57	79	61	54	48	59	48	52
11:44:45	4818	38478	52	54	57	79	61	54	46	59	48	52
11:45:00	4863	38500	52	54	57	77	60	54	46	59	48	52
11:45:15	4847	38458	52	54	57	77	60	54	46	59	48	52
11:45:30	4875	38436	52	54	57	75	60	54	46	59	48	52
11:45:45	4908	38428	52	54	57	75	60	54	46	59	48	52
11:46:00	4894	38399	52	54	57	73	59	52	46	59	48	51
11:46:15	4921	38372	52	54	55	73	59	52	46	59	48	51
11:46:30	4839	38364	52	54	55	72	58	52	46	59	48	51
11:46:45	4795	38387	52	52	55	72	58	52	46	57	48	51
11:47:00	4790	38327	52	54	55	72	58	54	48	61	48	53

Yarmouth Research and Technology, LLC

Leakage Summary for Burn and Cool Down Periods

All pressure transducers and thermocouples are in calibration per YRT's QA program.

External leakage was collected electronically.

Test Duration:	60	minutes
Tank Water Loss:	5281	mls
System Relief Water Collected:	5250	mls
Calculated Water Loss:	31	mls
Average Leak Rate:	0.5	ml/min
Average Seal Circumference	7.5	inches
Allowable Leak Rate:	7.5	ml/min

Was the Leakage Below the Allowable?	Yes
---	------------

Summary of Test Parameters During Burn and Cool Down Periods

Amount of Time of Average Cal. Block > 1200 deg.:	21.8	minutes
Minimum Allowable Time at Temperature:	15	minutes
Average Cal. Block Temperature During Burn:	1172	deg. F
Maximum Average Cal. Block Temperature During Burn:	1341	deg. F
Minimum Average Cal. Block Temperature During Burn:	63	deg. F
Average Flame Temperature During Burn:	1631	deg. F
Maximum Average Flame Temperature During Burn:	1716	deg. F
Minimum Average Flame Temperature During Burn:	115	deg. F

Notes

Were Test Conditions Within Compliance?	Yes
--	------------

Yarmouth Research and Technology, LLC

Depressurization - Repressurization Test Information

Customer: GPT

Date: 12/11/2019

Product Code: 2 inch Class 2500 Evolution Gasket w/ DHX Kit

Project Number: 219510

System pressure was lowered to 0 and then repressurized.

Operational Test Raw Data

Time	Pressure (psig)	Average Block Temp-F
11:49:57	4650	54
11:50:12	4733	54
11:50:27	4772	54
11:50:42	4855	54
11:50:57	4644	54
11:51:12	4701	54
11:51:27	4709	54
11:51:42	4766	54
11:51:57	4825	54
11:52:12	4659	54
11:52:27	4674	54
11:52:42	4645	54
11:52:57	4684	54
11:53:12	4705	54
11:53:27	4737	54
11:53:42	4760	54
11:53:57	4750	54
11:54:12	4739	54
11:54:27	4765	54
11:54:42	4781	54
11:54:57	4806	54

Leakage was collected manually.

Total External Leakage Collected Over 5 Minute Duration:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Allowable Leak Rate:	7.5	ml/min

Was the Leakage Below the Allowable?	Yes
---	------------