

2013-10-27 17:49:08 CUSTOMER: Rig XXX

DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6	TRIP 1
10/27/13 17:57	10/27/13 17:57	2095	0	264	68	69	
10/27/13 17:59	10/27/13 17:59	1968	1	248	68	69	
10/27/13 18:09	10/27/13 18:09	2095	1	223	68	69	
10/27/13 18:11	10/27/13 18:11	2260	1	197	68	69	
10/27/13 18:13	10/27/13 18:13	2149	0	263	68	69	
10/27/13 18:18	10/27/13 18:18	2238	1	255	68	70	
10/27/13 18:20	10/27/13 18:20	2529	0	257	68	69	
10/27/13 18:22	10/27/13 18:22	2031	1	197	68	69	
10/27/13 18:24	10/27/13 18:24	2038	1	284	68	69	
10/27/13 18:26	10/27/13 18:26	2007	0	305	68	69	
10/27/13 18:29	10/27/13 18:29	3025	1	207	68	69	
10/27/13 18:31	10/27/13 18:31	2257	1	250	68	69	
10/27/13 18:33	10/27/13 18:33	2040	1	285	68	69	
10/27/13 18:35	10/27/13 18:35	2704	1	200	68	69	
10/27/13 18:37	10/27/13 18:37	1995	1	311	68	69	
10/27/13 18:39	10/27/13 18:39	2285	1	202	68	69	
10/27/13 18:41	10/27/13 18:41	2022	0	303	68	69	
10/27/13 18:44	10/27/13 18:44	2550	1	244	68	69	
10/27/13 18:46	10/27/13 18:46	2055	1	273	68	69	
10/27/13 18:48	10/27/13 18:48	2309	0	194	68	69	
10/27/13 18:50	10/27/13 18:50	2800	1	218	68	70	
10/27/13 18:54	10/27/13 18:54	2317	0	317	69	68	
10/27/13 18:57	10/27/13 18:57	2614	0	217	69	69	
10/27/13 18:59	10/27/13 18:59	2121	1	195	69	69	
10/27/13 19:00	10/27/13 19:00	2439	1	267	69	69	
10/27/13 19:03	10/27/13 19:03	1977	0	260	69	69	
10/27/13 19:04	10/27/13 19:04	2436	1	228	69	69	
10/27/13 19:06	10/27/13 19:06	2736	0	287	69	70	
10/27/13 19:08	10/27/13 19:08	2289	0	288	69	70	
10/27/13 19:10	10/27/13 19:10	2117	0	361	69	69	
10/27/13 19:10	10/27/13 19:10	2210	1	180	69	69	
10/27/13 19:12	10/27/13 19:12	2129	2	251	69	69	
10/27/13 19:15	10/27/13 19:15	3035	0	288	69	69	
10/27/13 19:17	10/27/13 19:17	3284	1	158	69	69	
10/27/13 19:19	10/27/13 19:19	3473	2	135	69	69	
10/27/13 19:32	10/27/13 19:32	1998	0	298	69	69	
10/27/13 19:40	10/27/13 19:40	2016	0	232	69	69	
10/27/13 19:45	10/27/13 19:45	2077	0	152	69	69	
10/27/13 20:02	10/27/13 20:01	2162	1	262	69	69	
10/27/13 20:21	10/27/13 20:21	2084	0	211	69	69	
10/27/13 20:28	10/27/13 20:28	2543	1	318	69	69	
10/27/13 20:30	10/27/13 20:30	2515	1	187	69	69	
10/27/13 20:32	10/27/13 20:32	2039	0	273	69	69	
10/27/13 20:34	10/27/13 20:34	2131	0	225	68	69	
10/27/13 20:36	10/27/13 20:36	1982	1	351	69	69	
10/27/13 20:38	10/27/13 20:38	2109	0	256	68	68	
10/27/13 20:40	10/27/13 20:40	1970	1	259	68	68	
10/27/13 20:48	10/27/13 20:48	2018	0	278	68	69	
10/27/13 20:54	10/27/13 20:54	2208	1	250	68	69	

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DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6
10/27/13 20:56	10/27/13 20:56	2277	0	263	68	69
10/27/13 21:01	10/27/13 21:01	2220	1	287	68	69
10/27/13 21:03	10/27/13 21:03	2478	1	234	68	69
10/27/13 21:07	10/27/13 21:07	2085	1	318	68	69
10/27/13 21:08	10/27/13 21:08	2001	1	236	68	69
10/27/13 21:10	10/27/13 21:10	2470	0	327	68	70
10/27/13 21:12	10/27/13 21:12	2166	1	314	69	70
10/27/13 21:14	10/27/13 21:14	2258	1	326	69	70
10/27/13 21:14	10/27/13 21:14	2265	1	210	69	70
10/27/13 21:16	10/27/13 21:16	2241	0	324	68	69
10/27/13 21:17	10/27/13 21:17	2485	2	193	68	70
10/27/13 21:19	10/27/13 21:19	2318	0	368	68	69
10/27/13 21:19	10/27/13 21:19	2001	1	246	68	69
10/27/13 21:21	10/27/13 21:21	2125	1	221	68	70
10/27/13 21:23	10/27/13 21:23	2595	1	311	68	70
10/27/13 21:24	10/27/13 21:24	2078	1	323	68	70
10/27/13 21:26	10/27/13 21:26	2535	1	261	68	70
10/27/13 21:28	10/27/13 21:28	2228	1	237	68	69
10/27/13 21:30	10/27/13 21:30	2603	2	155	68	70
10/27/13 21:32	10/27/13 21:32	2210	1	250	68	69
10/27/13 21:33	10/27/13 21:33	2210	1	276	69	70
10/27/13 21:35	10/27/13 21:35	2919	2	183	69	69
10/27/13 21:37	10/27/13 21:37	2388	1	277	69	70
10/27/13 21:39	10/27/13 21:39	2542	1	277	69	70
10/27/13 21:40	10/27/13 21:40	2951	2	185	69	70
10/27/13 21:42	10/27/13 21:42	2811	1	307	69	70
10/27/13 21:44	10/27/13 21:44	2285	1	277	69	69
10/27/13 21:49	10/27/13 21:49	2526	1	330	68	68
10/27/13 21:50	10/27/13 21:50	2348	0	393	68	69
10/27/13 21:50	10/27/13 21:50	2321	1	215	68	69
10/27/13 22:01	10/27/13 22:01	2281	2	189	68	69
10/27/13 22:03	10/27/13 22:03	2230	1	259	68	69
10/27/13 22:05	10/27/13 22:05	2556	1	277	68	68
10/27/13 22:06	10/27/13 22:06	1990	0	273	68	69
10/27/13 22:08	10/27/13 22:08	2098	1	182	69	71
10/27/13 22:10	10/27/13 22:10	2707	2	264	69	70
10/27/13 22:13	10/27/13 22:13	2222	1	337	69	70
10/27/13 22:13	10/27/13 22:13	2137	1	229	69	70
10/27/13 22:15	10/27/13 22:15	2490	2	177	69	71
10/27/13 22:16	10/27/13 22:16	2853	1	182	69	71
10/27/13 22:18	10/27/13 22:18	2556	1	197	69	71
10/27/13 22:20	10/27/13 22:20	2045	1	295	70	71
10/27/13 22:22	10/27/13 22:22	2142	1	208	69	71
10/27/13 22:28	10/27/13 22:28	2369	1	219	68	70
10/27/13 22:31	10/27/13 22:31	2439	1	178	69	70
10/27/13 22:32	10/27/13 22:32	2349	1	200	69	70
10/27/13 22:34	10/27/13 22:34	2114	1	258	69	69
10/27/13 22:36	10/27/13 22:36	2294	1	185	69	70
10/27/13 22:38	10/27/13 22:38	1957	0	318	69	69

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DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6
10/27/13 22:40	10/27/13 22:40	2237	1	250	69	70
10/27/13 22:42	10/27/13 22:42	2336	1	220	69	70
10/27/13 22:44	10/27/13 22:44	2723	1	274	69	70
10/27/13 22:46	10/27/13 22:46	2333	1	231	69	70
10/27/13 22:50	10/27/13 22:50	2179	1	332	69	70
10/27/13 22:51	10/27/13 22:51	2221	1	370	69	69
10/27/13 22:52	10/27/13 22:51	2229	1	208	69	69
10/27/13 22:53	10/27/13 22:53	2201	1	283	69	70
10/27/13 22:55	10/27/13 22:55	2167	0	262	69	70
10/27/13 22:59	10/27/13 22:59	2840	1	226	69	71
10/27/13 23:01	10/27/13 23:01	2227	1	201	69	71
10/27/13 23:02	10/27/13 23:02	2520	0	268	69	70
10/27/13 23:04	10/27/13 23:04	2762	1	170	70	71
10/27/13 23:19	10/27/13 23:19	2112	1	246	67	69
10/27/13 23:22	10/27/13 23:22	2041	1	268	68	69
10/27/13 23:24	10/27/13 23:24	2080	1	265	67	69
10/27/13 23:26	10/27/13 23:26	2650	1	200	68	69
10/27/13 23:28	10/27/13 23:28	2155	1	288	68	69
10/27/13 23:30	10/27/13 23:30	2311	0	323	69	69
10/27/13 23:30	10/27/13 23:30	1974	0	273	69	69
10/27/13 23:32	10/27/13 23:32	2112	0	333	68	69
10/27/13 23:32	10/27/13 23:32	2166	1	175	68	70
10/27/13 23:34	10/27/13 23:34	2885	2	175	68	70
10/27/13 23:40	10/27/13 23:40	2109	1	319	68	69
10/27/13 23:42	10/27/13 23:42	2379	2	263	69	70
10/27/13 23:45	10/27/13 23:45	2045	1	261	68	69
10/27/13 23:47	10/27/13 23:47	2061	2	227	68	68
10/27/13 23:52	10/27/13 23:52	2267	1	211	68	69
10/27/13 23:54	10/27/13 23:54	2327	1	244	68	70
10/27/13 23:56	10/27/13 23:56	2021	1	252	68	70
10/27/13 23:58	10/27/13 23:58	2125	1	257	68	69
10/28/13 0:03	10/28/13 0:03	2072	1	256	68	69
10/28/13 0:05	10/28/13 0:05	2366	1	225	68	69
10/28/13 0:07	10/28/13 0:07	2098	1	246	68	69
10/28/13 0:14	10/28/13 0:14	2062	0	191	69	70
10/28/13 0:19	10/28/13 0:18	2950	1	220	69	70
10/28/13 0:21	10/28/13 0:21	2086	1	232	69	71
10/28/13 0:32	10/28/13 0:32	2144	2	202	68	70
10/28/13 0:39	10/28/13 0:39	2193	1	189	68	71
11/7/13 3:13	11/7/13 3:13	2244	1	250	53	53
11/7/13 3:16	11/7/13 3:16	1991	0	279	53	53
11/8/13 22:22	11/8/13 22:22	2391	1	228	59	60
11/8/13 22:26	11/8/13 22:26	1993	1	240	60	60
11/8/13 22:55	11/8/13 22:55	1957	1	225	60	60
11/8/13 22:58	11/8/13 22:58	2502	1	258	60	61
11/8/13 23:11	11/8/13 23:11	2044	0	237	60	61
11/8/13 23:24	11/8/13 23:24	1987	0	274	60	61
11/9/13 1:22	11/9/13 1:22	2343	2	259	63	63
11/9/13 1:40	11/9/13 1:39	2332	1	260	62	62

TRIP 2

TRIP 3

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DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6	
11/9/13 1:42	11/9/13 1:42	2057	1	311	62	62	
11/9/13 1:45	11/9/13 1:45	2284	2	201	62	63	
11/9/13 1:47	11/9/13 1:47	2225	1	260	62	63	
11/9/13 2:00	11/9/13 2:00	2304	0	344	62	63	
11/9/13 2:02	11/9/13 2:02	1992	1	315	62	63	
11/9/13 2:12	11/9/13 2:12	3072	1	313	62	62	
11/11/13 22:37	11/11/13 22:37	2382	1	115	54	62	TRIP 4
11/13/13 23:05	11/13/13 23:05	1956	0	167	66	67	TRIP 5
11/13/13 23:28	11/13/13 23:28	1968	0	310	67	67	
11/13/13 23:35	11/13/13 23:35	2157	0	202	67	68	
11/14/13 0:11	11/14/13 0:11	2041	1	305	66	67	
11/14/13 0:25	11/14/13 0:25	2260	1	213	67	68	
11/14/13 0:30	11/14/13 0:30	2680	1	239	67	68	
11/14/13 0:32	11/14/13 0:32	2194	1	262	67	68	
11/14/13 0:51	11/14/13 0:51	2199	2	265	67	68	
11/14/13 0:58	11/14/13 0:58	2231	1	216	67	68	
11/14/13 1:03	11/14/13 1:03	3222	1	233	67	67	
11/14/13 1:29	11/14/13 1:29	2126	0	190	67	68	
11/14/13 1:34	11/14/13 1:34	2462	0	129	67	68	
11/14/13 1:58	11/14/13 1:58	1994	0	277	67	68	
11/14/13 2:44	11/14/13 2:44	2143	1	287	67	69	
11/14/13 7:37	11/14/13 7:37	2050	0	263	65	69	
11/14/13 7:46	11/14/13 7:46	2194	0	259	67	71	
11/14/13 10:25	11/14/13 10:25	3011	2	241	67	70	
11/14/13 10:38	11/14/13 10:38	2062	2	298	69	71	
11/14/13 10:38	11/14/13 10:38	2052	1	206	69	78	
11/15/13 20:14	11/15/13 20:14	2271	2	233	73	73	TRIP 6
11/15/13 21:54	11/15/13 21:54	2272	1	288	73	73	
11/15/13 22:32	11/15/13 22:32	2037	1	263	73	73	
11/15/13 23:16	11/15/13 23:16	2892	1	144	72	73	
11/15/13 23:48	11/15/13 23:48	2166	1	322	72	73	
11/16/13 0:18	11/16/13 0:18	2178	1	268	72	73	
11/16/13 0:59	11/16/13 0:59	1975	1	309	72	73	
11/16/13 1:39	11/16/13 1:39	2040	1	294	72	74	
11/16/13 1:44	11/16/13 1:44	2152	1	272	72	73	
11/16/13 2:52	11/16/13 2:52	2211	1	275	72	73	
11/16/13 6:53	11/16/13 6:53	2125	0	225	71	74	
11/16/13 7:50	11/16/13 7:50	2410	1	262	74	80	
11/16/13 8:01	11/16/13 8:01	1970	1	228	75	82	
11/16/13 8:05	11/16/13 8:05	2131	1	313	76	82	
11/16/13 8:05	11/16/13 8:05	2205	1	183	76	82	
11/17/13 5:22	11/17/13 5:22	2104	2	193	66	72	TRIP 7
11/17/13 11:05	11/17/13 11:05	2139	0	296	66	66	
11/17/13 11:08	11/17/13 11:08	2098	1	194	66	66	
11/17/13 11:11	11/17/13 11:11	1960	0	241	66	66	
11/17/13 11:18	11/17/13 11:18	2252	1	280	66	66	
11/17/13 11:21	11/17/13 11:21	2160	1	244	66	66	
11/17/13 11:27	11/17/13 11:27	2338	1	288	66	67	
11/17/13 11:31	11/17/13 11:31	1956	1	244	66	67	

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DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6	
11/17/13 11:34	11/17/13 11:34	2324	1	341	66	67	
11/17/13 12:07	11/17/13 12:07	1991	1	214	65	66	
11/17/13 12:26	11/17/13 12:26	2006	1	277	66	67	
11/17/13 12:42	11/17/13 12:42	2359	1	274	67	67	
11/17/13 12:48	11/17/13 12:48	2048	1	256	67	67	
11/17/13 12:57	11/17/13 12:57	2156	1	228	67	67	
11/17/13 13:05	11/17/13 13:05	2350	1	247	67	67	
11/17/13 13:43	11/17/13 13:43	2486	1	155	68	68	
11/17/13 13:54	11/17/13 13:54	2165	1	249	68	69	
11/17/13 14:01	11/17/13 14:01	2182	1	277	68	68	
11/17/13 14:08	11/17/13 14:08	2022	1	346	68	68	
11/17/13 14:17	11/17/13 14:17	2117	1	325	68	68	
11/17/13 14:23	11/17/13 14:23	2045	1	322	68	69	
11/17/13 14:32	11/17/13 14:32	2221	1	240	68	69	
11/17/13 14:53	11/17/13 14:53	2070	1	239	66	68	
11/17/13 15:08	11/17/13 15:08	1992	1	265	66	66	
11/17/13 20:47	11/17/13 20:47	2409	1	188	63	68	TRIP 8
11/17/13 20:56	11/17/13 20:56	3201	3	121	67	72	TRIP 8
11/17/13 21:00	11/17/13 20:59	2647	2	157	67	72	TRIP 8
11/17/13 21:05	11/17/13 21:05	2626	5	280	67	71	TRIP 8
11/17/13 21:07	11/17/13 21:07	1955	0	244	69	74	TRIP 8
11/17/13 21:15	11/17/13 21:15	2277	1	240	70	75	TRIP 8
11/17/13 21:20	11/17/13 21:20	2498	3	253	70	75	TRIP 8
11/17/13 21:30	11/17/13 21:30	1987	1	295	71	76	TRIP 8
11/17/13 21:33	11/17/13 21:33	2204	0	237	72	78	TRIP 8
11/17/13 21:37	11/17/13 21:37	2008	1	234	72	78	TRIP 8
11/17/13 21:39	11/17/13 21:39	2098	0	222	72	79	TRIP 8
11/17/13 21:50	11/17/13 21:50	2258	2	260	73	79	TRIP 8
11/17/13 22:11	11/17/13 22:11	2715	7	240	67	74	TRIP 8
11/17/13 22:13	11/17/13 22:13	1974	1	266	68	75	TRIP 8
11/17/13 22:15	11/17/13 22:15	1978	1	240	70	79	TRIP 8
11/17/13 22:17	11/17/13 22:17	1963	1	241	71	73	TRIP 8
11/17/13 22:27	11/17/13 22:27	1990	0	259	74	78	TRIP 8
11/17/13 22:33	11/17/13 22:33	2387	2	199	75	84	TRIP 8
11/17/13 22:40	11/17/13 22:40	1985	1	264	72	78	TRIP 8
11/17/13 22:42	11/17/13 22:42	3352	5	139	73	83	TRIP 8
11/17/13 22:45	11/17/13 22:45	2241	1	179	75	85	TRIP 8
11/18/13 0:03	11/18/13 0:03	2151	1	207	78	88	TRIP 8
11/18/13 0:07	11/18/13 0:07	2021	0	221	78	88	TRIP 8
11/18/13 0:09	11/18/13 0:09	2456	2	164	79	91	TRIP 8
11/18/13 0:14	11/18/13 0:14	2567	3	172	80	85	TRIP 8
11/18/13 0:14	11/18/13 0:14	2069	1	172	80	92	TRIP 8
11/18/13 0:25	11/18/13 0:25	2008	1	220	75	86	TRIP 8
11/18/13 0:33	11/18/13 0:33	2321	1	168	78	90	TRIP 8
11/18/13 0:34	11/18/13 0:34	2133	3	212	78	86	TRIP 8
11/18/13 0:35	11/18/13 0:34	1969	1	202	79	91	TRIP 8
11/19/13 6:24	11/19/13 6:24	2125	0	284	66	67	TRIP 9
11/19/13 6:39	11/19/13 6:39	2636	1	240	66	67	TRIP 9
11/19/13 8:11	11/19/13 8:11	2041	1	142	69	77	TRIP 9

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DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6
11/19/13 8:19	11/19/13 8:19	2023	1	85	70	80
11/19/13 8:52	11/19/13 8:52	1984	1	101	77	90
11/19/13 9:00	11/19/13 9:00	2099	1	119	77	91
11/19/13 9:01	11/19/13 9:01	3305	3	101	77	89
11/19/13 9:05	11/19/13 9:05	2067	1	138	79	91
11/19/13 9:07	11/19/13 9:07	3206	3	184	79	90
11/19/13 10:01	11/19/13 10:01	2022	1	174	77	78
11/19/13 10:06	11/19/13 10:06	2009	1	295	76	77
11/19/13 10:16	11/19/13 10:16	1974	0	188	75	76
11/19/13 13:45	11/19/13 13:45	3087	1	146	74	74
11/19/13 13:48	11/19/13 13:48	2066	0	272	74	75
11/19/13 13:50	11/19/13 13:50	2011	1	304	74	75
11/19/13 13:52	11/19/13 13:52	1985	1	254	74	75
11/19/13 13:58	11/19/13 13:58	2010	0	257	74	75
11/19/13 14:02	11/19/13 14:02	2508	2	232	74	75
11/19/13 14:22	11/19/13 14:22	2131	1	268	75	75
11/19/13 14:26	11/19/13 14:26	2407	1	238	75	76
11/19/13 14:40	11/19/13 14:40	2112	1	237	76	77
11/19/13 14:42	11/19/13 14:42	2527	1	197	76	77
11/19/13 14:45	11/19/13 14:45	2599	1	206	76	77
11/19/13 14:47	11/19/13 14:47	2009	1	303	76	76
11/19/13 15:07	11/19/13 15:07	2270	1	244	76	77
11/19/13 15:30	11/19/13 15:30	2085	1	339	75	76
11/19/13 15:32	11/19/13 15:32	2527	1	255	75	76
11/19/13 15:37	11/19/13 15:37	2264	1	193	76	77
11/19/13 15:44	11/19/13 15:44	1953	0	293	76	77
11/24/13 21:32	11/24/13 21:32	2477	2	213	57	57
11/24/13 21:39	11/24/13 21:39	2519	0	301	57	58
11/24/13 21:41	11/24/13 21:41	2874	1	92	57	58
11/24/13 21:48	11/24/13 21:48	2984	2	177	57	58
11/24/13 22:10	11/24/13 22:10	1998	0	350	57	57
11/24/13 23:13	11/24/13 23:13	2977	1	247	57	58
11/24/13 23:15	11/24/13 23:15	3133	2	244	57	58
11/24/13 23:17	11/24/13 23:17	4074	1	258	57	59
11/24/13 23:19	11/24/13 23:19	3420	1	277	57	58
11/24/13 23:21	11/24/13 23:21	3550	1	206	58	59
11/24/13 23:23	11/24/13 23:23	3356	1	296	58	59
11/24/13 23:25	11/24/13 23:25	4044	1	215	58	59
11/24/13 23:27	11/24/13 23:27	1953	0	380	58	60
11/24/13 23:42	11/24/13 23:42	3186	1	381	57	58
11/24/13 23:42	11/24/13 23:42	2294	1	254	57	58
11/24/13 23:44	11/24/13 23:44	3529	1	296	57	59
11/24/13 23:46	11/24/13 23:46	3488	1	251	57	59
11/24/13 23:48	11/24/13 23:48	3452	1	283	57	59
11/24/13 23:50	11/24/13 23:50	3121	1	329	58	59
11/24/13 23:51	11/24/13 23:51	4690	1	244	58	59
11/24/13 23:53	11/24/13 23:53	2959	1	286	59	60
11/24/13 23:54	11/24/13 23:54	3621	1	283	59	60
11/24/13 23:56	11/24/13 23:56	3642	1	274	59	60

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DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6
11/24/13 23:58	11/24/13 23:58	5398	2	139	59	60
11/25/13 0:00	11/25/13 0:00	2080	1	352	60	60
11/25/13 0:01	11/25/13 0:01	4357	1	269	60	60
11/25/13 0:03	11/25/13 0:03	3354	2	196	60	61
11/25/13 0:04	11/25/13 0:04	3592	1	306	60	60
11/25/13 0:06	11/25/13 0:06	3035	1	328	60	61
11/25/13 0:07	11/25/13 0:07	3526	2	238	60	61
11/25/13 0:09	11/25/13 0:09	3353	1	262	60	61
11/25/13 0:10	11/25/13 0:10	3601	1	317	60	61
11/25/13 0:12	11/25/13 0:12	3206	1	343	60	61
11/25/13 0:13	11/25/13 0:13	3115	2	167	60	61
11/25/13 0:15	11/25/13 0:15	3127	1	211	60	61
11/25/13 0:16	11/25/13 0:16	3030	1	245	60	61
11/25/13 0:18	11/25/13 0:18	3130	2	159	60	61
11/25/13 0:19	11/25/13 0:19	3457	1	283	60	62
11/25/13 0:21	11/25/13 0:21	4091	1	266	60	62
11/25/13 0:22	11/25/13 0:22	3679	1	302	61	62
11/25/13 0:23	11/25/13 0:23	4000	1	291	61	62
11/25/13 0:25	11/25/13 0:25	3498	1	176	61	62
11/25/13 0:26	11/25/13 0:26	3919	1	285	61	62
11/25/13 0:27	11/25/13 0:27	3328	1	267	61	63
11/25/13 0:29	11/25/13 0:29	3137	2	272	62	63
11/25/13 0:30	11/25/13 0:30	3536	1	335	62	63
11/25/13 0:30	11/25/13 0:30	2055	0	177	62	63
11/25/13 0:31	11/25/13 0:31	3383	2	236	62	62
11/25/13 0:33	11/25/13 0:33	3637	2	165	62	62
11/25/13 0:34	11/25/13 0:34	3404	2	174	62	62
11/25/13 0:36	11/25/13 0:36	3569	1	285	62	62
11/25/13 0:37	11/25/13 0:37	4223	1	271	62	63
11/25/13 0:39	11/25/13 0:39	3788	1	276	62	62
11/25/13 0:40	11/25/13 0:40	4093	1	248	62	63
11/25/13 0:41	11/25/13 0:41	3616	1	322	62	63
11/25/13 0:43	11/25/13 0:43	4112	2	138	62	63
11/25/13 0:44	11/25/13 0:44	4006	2	186	62	63
11/25/13 0:45	11/25/13 0:45	3600	1	258	62	63
11/25/13 0:47	11/25/13 0:47	3795	1	240	62	63
11/25/13 0:48	11/25/13 0:48	4187	1	258	62	63
11/25/13 0:50	11/25/13 0:50	2114	0	342	62	62
11/25/13 0:55	11/25/13 0:55	1983	1	332	61	61
11/25/13 1:04	11/25/13 1:04	3375	1	238	59	60
11/25/13 1:06	11/25/13 1:06	3648	1	220	59	60
11/25/13 1:18	11/25/13 1:18	2781	1	271	59	59
11/25/13 1:21	11/25/13 1:21	3229	1	243	59	60
11/25/13 1:27	11/25/13 1:27	2103	1	363	59	60
11/25/13 1:35	11/25/13 1:35	3124	1	246	60	60
11/25/13 1:38	11/25/13 1:38	4103	1	156	60	60
11/25/13 1:41	11/25/13 1:41	3250	2	216	60	61
11/25/13 3:48	11/25/13 3:48	2707	1	256	60	61
11/25/13 4:41	11/25/13 4:41	2371	1	134	61	63

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DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6	
11/25/13 6:01	11/25/13 6:00	2160	1	154	57	62	
11/25/13 6:45	11/25/13 6:45	2000	1	207	66	74	
11/27/13 12:33	11/27/13 12:33	2398	1	336	54	55	TRIP 11
11/27/13 12:36	11/27/13 12:36	2196	1	318	55	55	
11/27/13 12:39	11/27/13 12:39	1953	1	304	55	55	
11/27/13 13:00	11/27/13 13:00	2223	1	284	55	56	
11/27/13 17:48	11/27/13 17:48	1998	1	276	54	54	
11/27/13 17:54	11/27/13 17:54	2397	1	288	54	54	
11/27/13 18:10	11/27/13 18:10	2321	0	308	55	55	
11/27/13 19:08	11/27/13 19:08	2327	1	289	57	58	
11/27/13 20:02	11/27/13 20:02	1961	0	347	56	55	
11/27/13 20:26	11/27/13 20:26	2562	1	169	56	55	
11/27/13 20:28	11/27/13 20:28	3508	2	198	56	56	
11/27/13 20:33	11/27/13 20:33	3612	1	254	56	56	
11/27/13 20:35	11/27/13 20:35	2860	1	334	56	57	
11/27/13 20:37	11/27/13 20:37	3073	1	309	56	57	
11/27/13 20:39	11/27/13 20:39	2600	0	328	56	57	
11/27/13 20:41	11/27/13 20:41	3811	2	177	56	57	
11/27/13 20:44	11/27/13 20:44	3479	1	233	56	56	
11/27/13 20:46	11/27/13 20:46	2649	1	271	56	57	
11/29/13 21:11	11/29/13 21:11	2082	1	303	54	54	TRIP 12
11/29/13 21:15	11/29/13 21:15	3604	1	299	54	55	
11/29/13 21:15	11/29/13 21:15	2102	1	171	54	55	
11/29/13 21:20	11/29/13 21:20	3014	1	337	55	55	
11/29/13 21:20	11/29/13 21:20	2059	0	225	55	55	
11/29/13 21:23	11/29/13 21:23	2923	2	234	56	56	
11/29/13 21:25	11/29/13 21:25	2828	2	179	56	56	
11/29/13 21:28	11/29/13 21:28	2038	1	231	56	57	
11/29/13 21:31	11/29/13 21:31	3618	1	293	56	57	
11/29/13 21:33	11/29/13 21:33	2888	1	314	56	57	
11/29/13 21:35	11/29/13 21:35	3768	1	271	56	57	
11/29/13 21:38	11/29/13 21:38	3254	2	242	56	57	
11/29/13 21:40	11/29/13 21:40	3175	1	297	56	56	
11/29/13 21:44	11/29/13 21:44	2618	1	289	56	57	
11/29/13 21:46	11/29/13 21:46	3022	1	232	56	57	
11/29/13 21:48	11/29/13 21:48	2926	1	291	56	57	
11/29/13 21:50	11/29/13 21:50	3553	1	244	57	58	
11/29/13 21:52	11/29/13 21:52	2953	2	244	57	57	
11/29/13 21:55	11/29/13 21:55	2541	1	316	57	58	
11/29/13 21:57	11/29/13 21:57	2889	1	317	58	57	
11/29/13 21:59	11/29/13 21:59	3425	1	179	58	57	
11/29/13 22:01	11/29/13 22:01	2992	2	229	58	58	
11/29/13 22:06	11/29/13 22:06	3118	1	288	58	58	
11/29/13 22:08	11/29/13 22:08	2923	1	298	58	59	
11/29/13 22:10	11/29/13 22:10	3273	1	267	58	59	
11/29/13 22:14	11/29/13 22:14	2624	1	302	59	60	
11/29/13 22:19	11/29/13 22:19	3070	1	252	60	60	
11/29/13 22:57	11/29/13 22:57	3053	1	323	61	62	
11/29/13 22:57	11/29/13 22:57	2001	0	203	61	62	

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DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6
11/29/13 23:00	11/29/13 23:00	2739	2	266	62	61
11/29/13 23:02	11/29/13 23:02	2771	1	222	61	62
11/29/13 23:04	11/29/13 23:04	3237	2	203	61	61
11/29/13 23:06	11/29/13 23:06	3145	1	204	61	61
11/29/13 23:08	11/29/13 23:08	2855	2	228	61	61
11/29/13 23:10	11/29/13 23:10	3109	2	192	61	61
11/29/13 23:12	11/29/13 23:12	2829	1	279	61	61
11/29/13 23:14	11/29/13 23:14	2777	2	259	61	61
11/29/13 23:16	11/29/13 23:16	3520	2	200	61	61
11/29/13 23:18	11/29/13 23:18	3396	1	245	61	61
11/29/13 23:20	11/29/13 23:20	3935	1	124	61	61
11/29/13 23:22	11/29/13 23:22	3359	1	271	61	61
11/29/13 23:24	11/29/13 23:24	3328	1	268	61	61
11/29/13 23:29	11/29/13 23:29	3202	1	303	63	63
11/29/13 23:32	11/29/13 23:32	3468	2	226	63	63
11/29/13 23:37	11/29/13 23:37	3960	2	185	63	64
11/29/13 23:39	11/29/13 23:39	2764	2	237	63	63
11/30/13 1:15	11/30/13 1:15	3401	1	334	76	76
11/30/13 1:17	11/30/13 1:17	3399	2	249	74	75
11/30/13 1:19	11/30/13 1:19	3096	0	332	74	74
11/30/13 1:21	11/30/13 1:21	2586	0	405	73	73
11/30/13 1:21	11/30/13 1:21	1983	1	280	73	73
11/30/13 1:23	11/30/13 1:23	3403	2	213	73	73
11/30/13 1:25	11/30/13 1:25	3204	1	223	72	73
11/30/13 1:27	11/30/13 1:27	3387	2	231	72	72
11/30/13 1:28	11/30/13 1:28	2539	1	222	72	72
11/30/13 3:45	11/30/13 3:45	2493	2	224	69	69
11/30/13 3:50	11/30/13 3:50	2469	2	247	70	71
11/30/13 3:56	11/30/13 3:56	3113	2	239	70	70
11/30/13 4:00	11/30/13 4:00	2821	2	248	70	70
11/30/13 4:03	11/30/13 4:03	3109	1	249	70	70
11/30/13 4:05	11/30/13 4:05	2063	0	329	70	70
11/30/13 4:08	11/30/13 4:08	2630	1	340	70	70
11/30/13 4:10	11/30/13 4:10	1970	0	193	70	71
11/30/13 4:12	11/30/13 4:12	3244	1	249	70	70
11/30/13 4:14	11/30/13 4:14	3464	2	192	70	70
11/30/13 4:17	11/30/13 4:17	3466	1	272	70	70
11/30/13 4:19	11/30/13 4:19	3150	2	166	70	70
11/30/13 4:21	11/30/13 4:21	3790	2	186	70	70
11/30/13 4:23	11/30/13 4:23	3577	2	177	70	70
11/30/13 4:25	11/30/13 4:25	3395	2	204	70	70
11/30/13 4:27	11/30/13 4:27	3116	1	271	70	70
11/30/13 4:29	11/30/13 4:29	3295	2	238	70	70
11/30/13 4:32	11/30/13 4:32	3038	1	250	70	71
11/30/13 4:34	11/30/13 4:34	2933	2	276	70	71
11/30/13 4:36	11/30/13 4:36	3274	1	239	70	71
11/30/13 4:38	11/30/13 4:38	3283	1	209	70	70
11/30/13 4:40	11/30/13 4:40	3296	1	257	70	71
11/30/13 4:42	11/30/13 4:42	3631	1	174	70	70

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DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6
11/30/13 4:57	11/30/13 4:57	3318	2	185	70	70
11/30/13 4:59	11/30/13 4:59	3102	2	240	70	70
11/30/13 5:01	11/30/13 5:01	3277	1	275	70	70
11/30/13 5:03	11/30/13 5:03	3889	1	265	70	70
11/30/13 5:05	11/30/13 5:05	3164	1	215	70	70
11/30/13 5:10	11/30/13 5:10	2120	1	205	69	70
11/30/13 5:13	11/30/13 5:13	2151	1	294	69	69
11/30/13 5:15	11/30/13 5:15	3064	1	206	69	69
11/30/13 5:17	11/30/13 5:17	3539	1	216	69	70
11/30/13 5:19	11/30/13 5:19	3143	2	150	69	70
11/30/13 5:21	11/30/13 5:20	3875	2	191	69	70
11/30/13 5:22	11/30/13 5:22	3886	1	248	69	70
11/30/13 5:24	11/30/13 5:24	3250	2	219	69	70
11/30/13 5:26	11/30/13 5:26	4048	1	238	69	70
11/30/13 5:28	11/30/13 5:28	3074	2	264	69	69
11/30/13 5:30	11/30/13 5:30	3421	2	248	69	70
11/30/13 5:32	11/30/13 5:32	3552	1	228	69	70
11/30/13 5:34	11/30/13 5:34	3274	1	245	69	69
11/30/13 5:36	11/30/13 5:36	3442	1	214	69	70
11/30/13 5:39	11/30/13 5:39	2732	1	305	69	69
11/30/13 5:41	11/30/13 5:41	3949	1	266	69	69
11/30/13 5:43	11/30/13 5:43	3410	1	187	69	69
11/30/13 5:49	11/30/13 5:49	3330	1	187	69	69
11/30/13 5:51	11/30/13 5:51	3472	2	186	69	69
11/30/13 5:53	11/30/13 5:53	3769	1	254	69	70
11/30/13 6:01	11/30/13 6:01	3787	1	225	68	68
11/30/13 6:03	11/30/13 6:03	4265	1	137	68	69
11/30/13 6:05	11/30/13 6:05	3725	1	184	69	69
11/30/13 6:07	11/30/13 6:07	4485	1	266	69	69
11/30/13 6:09	11/30/13 6:09	3312	2	173	69	70
11/30/13 6:10	11/30/13 6:10	3697	1	195	69	70
11/30/13 6:12	11/30/13 6:12	3510	2	193	70	70
11/30/13 6:14	11/30/13 6:14	2648	1	226	70	71
11/30/13 6:15	11/30/13 6:15	3776	1	154	70	71
11/30/13 6:17	11/30/13 6:17	4368	1	224	70	71
11/30/13 6:19	11/30/13 6:19	3234	1	283	70	71
11/30/13 6:20	11/30/13 6:20	4124	1	225	70	71
11/30/13 6:22	11/30/13 6:22	4324	1	146	70	71
11/30/13 6:23	11/30/13 6:23	3739	2	161	70	71
11/30/13 6:25	11/30/13 6:25	4057	1	279	70	71
11/30/13 6:27	11/30/13 6:27	4349	1	201	70	71
11/30/13 6:28	11/30/13 6:28	3903	1	141	70	71
11/30/13 6:30	11/30/13 6:30	5101	1	224	70	72
11/30/13 6:31	11/30/13 6:31	4269	1	192	70	72
11/30/13 6:33	11/30/13 6:33	3891	1	214	70	71
11/30/13 6:35	11/30/13 6:35	4526	1	197	70	72
11/30/13 6:36	11/30/13 6:36	4252	2	185	71	71
11/30/13 6:38	11/30/13 6:38	4048	1	245	71	72
11/30/13 6:40	11/30/13 6:40	3676	0	330	71	71

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DATE & TIME	TIME STAMP	MAXIMUM HP	DURATION	FPM	T5	T6	
11/30/13 6:41	11/30/13 6:41	3475	1	100	71	72	
11/30/13 6:43	11/30/13 6:43	3050	2	231	70	72	
11/30/13 6:45	11/30/13 6:45	3704	2	189	70	72	
11/30/13 6:46	11/30/13 6:46	4204	1	157	70	72	
11/30/13 6:48	11/30/13 6:48	3227	2	219	70	71	
11/30/13 6:49	11/30/13 6:49	3783	1	274	70	71	
11/30/13 6:51	11/30/13 6:51	3494	2	211	70	72	
11/30/13 6:52	11/30/13 6:52	4112	1	188	70	72	
11/30/13 6:54	11/30/13 6:54	4500	1	207	70	72	
11/30/13 6:55	11/30/13 6:55	4024	1	258	70	71	
11/30/13 6:57	11/30/13 6:57	3562	2	225	70	72	
11/30/13 6:58	11/30/13 6:58	4206	1	219	70	72	
11/30/13 7:01	11/30/13 7:01	2230	1	362	70	72	
11/30/13 7:01	11/30/13 7:01	2188	1	217	70	72	
11/30/13 7:03	11/30/13 7:03	4236	1	248	70	71	
11/30/13 7:04	11/30/13 7:04	4196	1	207	70	71	
11/30/13 7:05	11/30/13 7:05	3571	2	198	70	72	
11/30/13 7:07	11/30/13 7:07	3465	1	183	70	72	
11/30/13 7:08	11/30/13 7:08	3564	1	272	70	71	
11/30/13 7:10	11/30/13 7:10	3395	1	315	70	72	
11/30/13 7:11	11/30/13 7:11	3548	1	223	70	72	
11/30/13 7:13	11/30/13 7:13	3651	1	208	70	71	
11/30/13 7:15	11/30/13 7:15	3628	1	218	70	71	
11/30/13 7:16	11/30/13 7:16	3297	1	154	70	71	
11/30/13 7:18	11/30/13 7:18	3247	1	256	70	71	
11/30/13 7:32	11/30/13 7:32	2591	2	219	69	69	
11/30/13 7:34	11/30/13 7:34	2970	1	315	70	70	
11/30/13 7:40	11/30/13 7:40	2583	2	242	70	70	
11/30/13 7:42	11/30/13 7:42	3537	1	296	70	70	
11/30/13 7:45	11/30/13 7:45	3365	2	167	70	70	
11/30/13 7:53	11/30/13 7:53	2345	1	282	68	69	
11/30/13 7:57	11/30/13 7:57	3508	1	256	68	69	
11/30/13 8:00	11/30/13 8:00	2521	1	332	68	69	
11/30/13 8:02	11/30/13 8:02	3638	1	257	68	69	
11/30/13 8:04	11/30/13 8:04	2974	1	267	69	69	
11/30/13 8:08	11/30/13 8:08	2455	1	270	69	69	
11/30/13 8:10	11/30/13 8:10	4043	1	229	69	70	
11/30/13 8:12	11/30/13 8:12	5161	1	182	69	69	
11/30/13 8:15	11/30/13 8:15	3585	1	269	69	69	
11/30/13 8:18	11/30/13 8:18	4077	1	219	69	70	
12/2/13 20:28	12/2/13 20:28	2862	1	273	57	58	TRIP 13
12/2/13 20:40	12/2/13 20:40	3920	2	196	57	58	
12/2/13 20:42	12/2/13 20:42	3041	1	194	58	58	
12/2/13 20:45	12/2/13 20:45	4084	1	230	58	59	
12/2/13 20:48	12/2/13 20:48	3247	2	204	58	59	
12/2/13 20:53	12/2/13 20:53	3659	1	244	58	60	
12/2/13 20:56	12/2/13 20:55	3336	1	148	58	59	
12/2/13 20:59	12/2/13 20:59	3270	1	235	59	60	
12/2/13 21:02	12/2/13 21:02	4169	1	189	59	60	

SUMMARY

Total time over 1950 HP 584 sec 9.73 min
Peak HP event 5398 HP for 2 sec
Over 3000 HP >/= 3 sec 4 Incidents
Over 300 FPM (405 max) 82 incidents
Trip 8 (&9) looks to be the most "severe"
because of the longer durations of over HP incidents
Most other trips were over HP for only 1 sec at a time
Dennis A Pauls
Daptech LLC
1111 S West St
Wichita KS 67213
d.pauls@daptechllc.com 316-259-1695

Begin forwarded message:

From: Dennis Pauls <d.pauls@daptechllc.com>

Subject: Re: Rig XXX

Date: December 5, 2013 7:09:18 AM CST

To: Rig Owner

Cc: Rig Manager

RE: HP DataLog Analysis

Please thank your motorman for downloading the data from the system. It came through just great!

I have gone through the HP log and it looks a lot better than the first one. Whatever you guys have done has definitely improved the situation.

The changes are as follows:

TOTAL TIME OVER 1950 HP NOW - 584 SEC IN 35 DAYS (Was 818 sec in 7 days)

OVER 3000 HP FOR 3 SEC OR MORE NOW - 4 INCIDENTS IN 35 DAYS (Was 21 incidents in 7 days)

Now that we have added hook speed to the data set we can see that for the most part they are staying under 300 fpm (Over 300 FPM (405 max - 82 incidents) and the higher peaks do not necessarily correlate with these higher speeds. That leads me to speculate that the peaks are coming as the load is brought to a stop. When we get all of the HP data (not just over HP alarms) going on your Pason trace, it will be very easy to correlate HP with hook load/speed and position.

On that note, we have finished the preliminary work with Pason and Totco as far as what format they need the data to add it in to their "custom trace" options. We have some programming & testing to do to accommodate that. It will start week after next and should be finished by Dec 31 if all goes well.

It looks to me like your guys are not doing near as much drop-and-catch as before. Trip 8 and a little of trip 9 was the worst case where the peaks were higher and longer. Otherwise the peaks are shorter duration and more moderate. It will be interesting to see how this affects brake life in the long run.

Dennis Pauls P.E.
316-259-1695