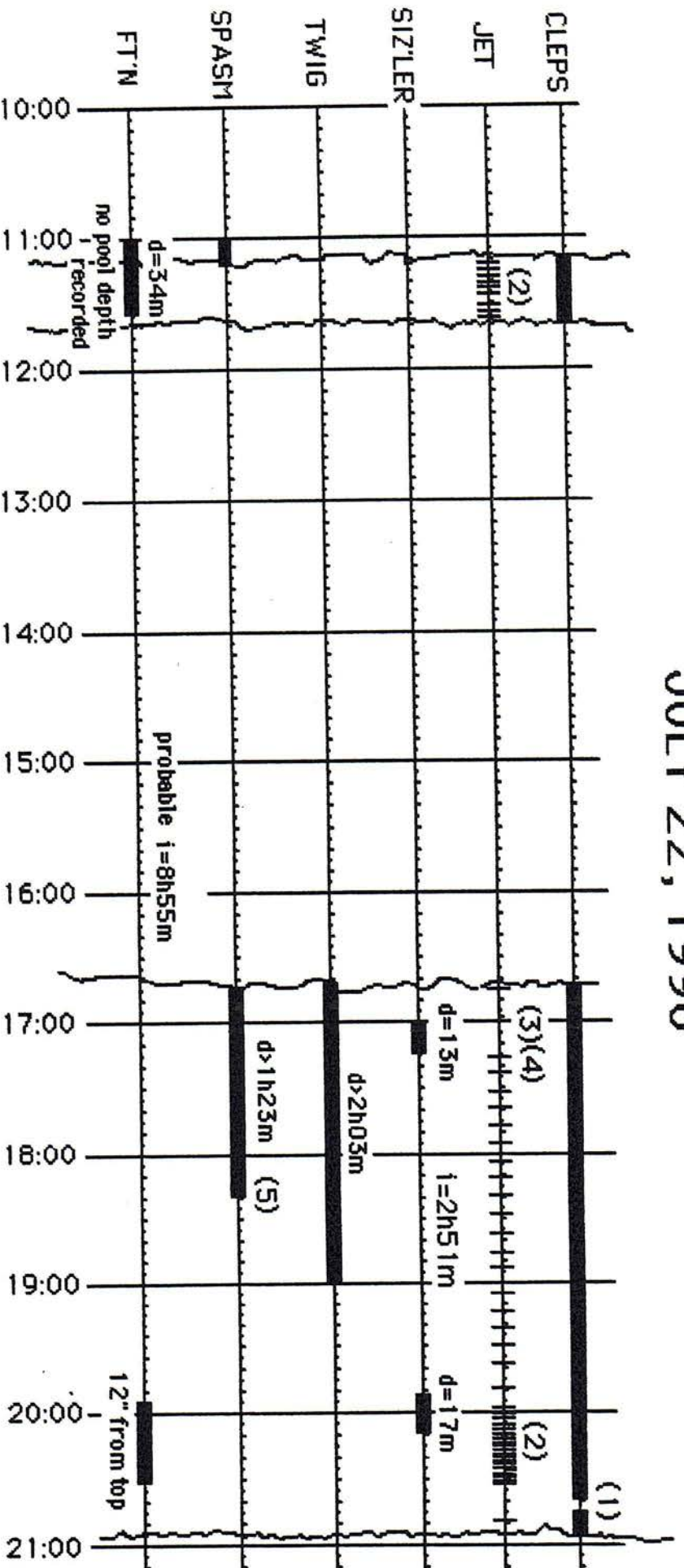


JULY 20, 1998

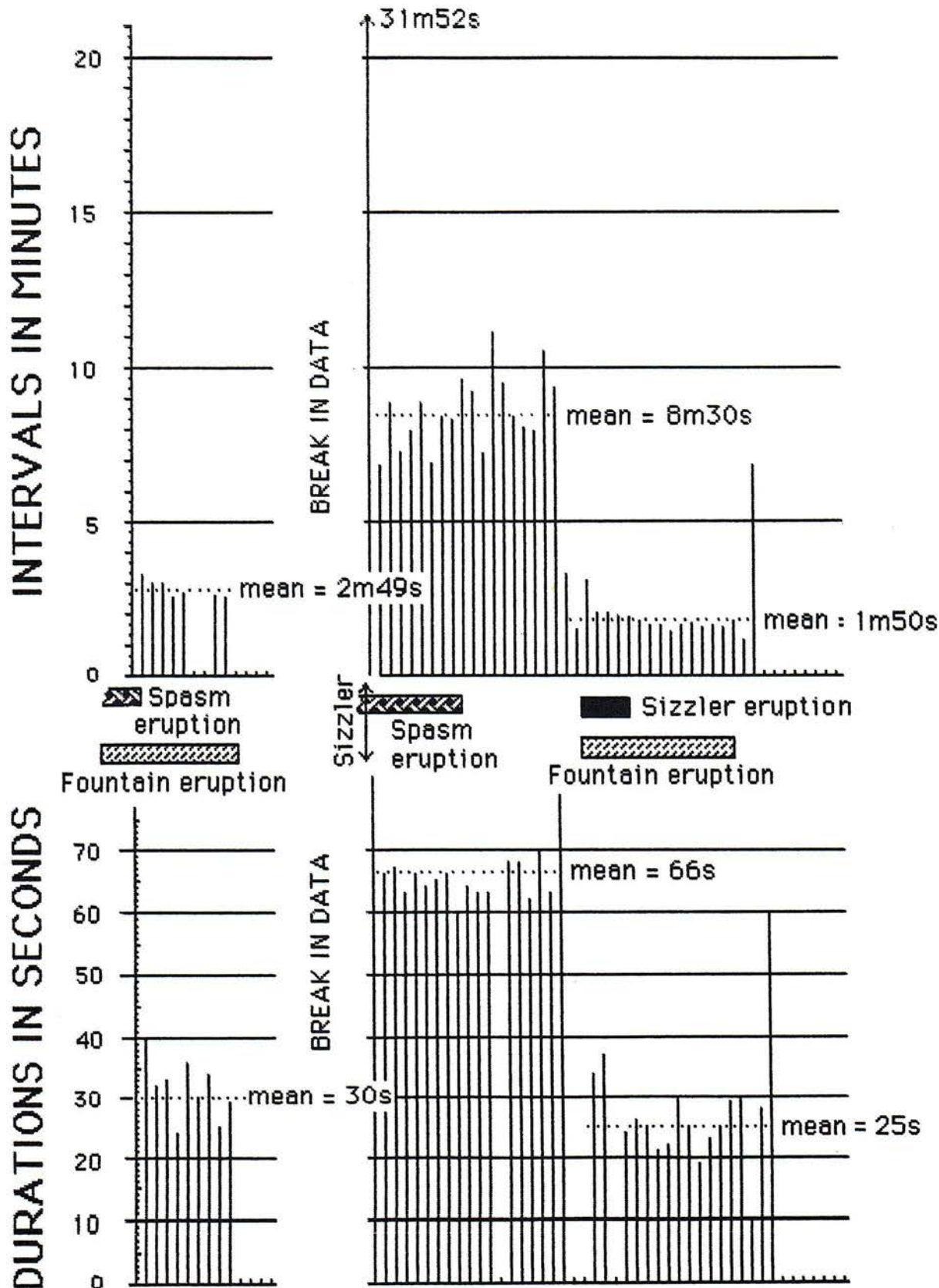
10:18	Constant
10:34	Constant
10:37	Constant
10:54	Constant
11:09	Constant
11:17	Fireball (off at 11:23)
11:24	Constant
11:41	Constant
11:43	Constant
12:00	Veteran (ie)
12:47	Echinus (d=4m)

JULY 22, 1998



- (1) Clepsydra paused 9m after Fountain stopped for 4m.
- (2) Jet began erupting with short intervals and durations as Fountain began to erupt.
- (3) Jet stopped erupting as Sizzler erupted w/o Fountain.
- (4) Jet quickly resumed its series of eruptions after Sizzler stopped erupting.
- (5) Unusual behavior as Spasm drains 1h36m before Fountain's eruption.

CONSECUTIVE JET GEYSER INTERVALS AND DURATIONS JULY 22, 1998



1

JET GEYSER DATA LOWER GEYSER BASIN YELLOWSTONE NATIONAL PARK JULY 22, 1998

START TIME	END TIME	INTERVAL IN H:M:S	INTERVAL MEANS	DURATION IN H:M:S	DURATION MEANS	WAS FOUNTAIN ERUPTING	WAS SIZZLER ERUPTING	
11:12:00		*		*	#####	YES	NO	
11:15:17	11:15:49	0:03:17		0:00:32		YES	NO	
11:18:17	11:18:50	0:03:00		0:00:33		YES	NO	
11:21:18	11:21:42	0:03:01		0:00:24		YES	NO	
11:23:52	11:24:28	0:02:34		0:00:36		YES	NO	
11:26:33	11:27:03	0:02:41		0:00:30		YES	NO	
11:31:52	11:32:26	* 0:05:19		0:00:34		YES	NO	
11:34:29	11:34:54	0:02:37		0:00:25		YES	NO	
11:37:00	11:37:29	0:02:31	0:02:49	0:00:29	0:00:30	NO	NO	
LEFT AREA								
16:45:03	16:46:06	*		0:01:03		NO	YES	
17:16:55	17:18:11	* 0:31:52		0:01:16		NO	NO	
17:23:42	17:24:48	0:06:47		0:01:06		NO	NO	
17:32:33	17:33:40	0:08:51		0:01:07		NO	NO	
17:39:47	17:40:50	0:07:14		0:01:03		NO	NO	
17:47:42	17:48:48	0:07:55		0:01:06		NO	NO	
17:55:40	17:56:44	0:07:58		0:01:04		NO	NO	
18:04:33	18:05:38	0:08:53		0:01:05		NO	NO	
18:11:24	18:12:30	0:06:51		0:01:06		NO	NO	
18:19:46	18:20:46	0:08:22		0:01:00		NO	NO	
18:28:04	18:29:08	0:08:18		0:01:04		NO	NO	
18:37:36	18:38:39	0:09:32		0:01:03		NO	NO	
18:46:43	18:47:46	0:09:07		0:01:03		NO	NO	
18:53:54		0:07:11		*	#####	NO	NO	
19:05:01	19:06:07	0:11:07		0:01:06		NO	NO	
19:14:25	19:15:33	0:09:24		0:01:08		NO	NO	
19:22:48	19:23:50	0:08:23		0:01:02		NO	NO	
19:30:51	19:32:01	0:08:03		0:01:10		NO	NO	
19:38:47	19:39:50	0:07:56		0:01:03		NO	NO	
19:49:19	19:50:38	0:10:32		0:01:19		NO	NO	
19:58:33		0:09:14	0:08:30	*	#####	0:01:06	YES	YES
20:01:49		0:03:16		*	#####		YES	YES
20:03:15	20:03:49	0:01:26		0:00:34		YES	YES	
20:06:18	20:06:55	0:03:03		0:00:37		YES	YES	
20:08:18		0:02:00		*	#####		YES	YES
20:10:19	20:10:43	0:02:01		0:00:24		YES	NO	
20:12:13	20:12:39	0:01:54		0:00:26		YES	NO	
20:14:05	20:14:30	0:01:52		0:00:25		YES	NO	
20:15:49	20:16:10	0:01:44		0:00:21		YES	NO	
20:17:25	20:17:47	0:01:36		0:00:22		YES	NO	
20:19:00	20:19:22	0:01:35		0:00:22		YES	NO	
20:20:27	20:20:57	0:01:27		0:00:30		YES	NO	
20:22:04	20:22:30	0:01:37		0:00:26		YES	NO	

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

**JET GEYSER DATA
LOWER GEYSER BASIN
YELLOWSTONE NATIONAL PARK
JULY 22, 1998**

START TIME	END TIME		INTERVAL IN H:M:S	INTERVAL MEANS	DURATION IN H:M:S	DURATION MEANS	WAS FOUNTAIN ERUPTING	WAS SIZZLER ERUPTING
20:23:43	20:24:02		0:01:39		0:00:19		YES	NO
20:25:13	20:25:36		0:01:30		0:00:23		YES	NO
20:26:44	20:27:09		0:01:31		0:00:25		YES	NO
20:28:18	20:28:47		0:01:34		0:00:29		YES	NO
20:29:50	20:30:20		0:01:32		0:00:30		YES	NO
20:31:35	20:31:45		0:01:45	0:01:50	0:00:10	0:00:25	NO	NO
20:32:42	20:33:10	*	0:01:07		* 0:00:28		NO	NO
20:49:31	20:50:31	*	0:16:49		* 0:01:00		NO	NO
LEFT AREA								

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

JULY 22, 1998

Time of Jet Geyser eruption(duration of eruption in seconds) >time period between eruptions in minutes and seconds

~~~~~Fountain on

11:12 Jet (40s)  
11:15:17 Jet (32s) >3m17s  
11:18:17 Jet (33s) >3m00s  
11:21:18 Jet (24s) >3m01s  
11:23:52 Jet (36s) >2m34s  
11:26:33 Jet (30s) >2m41s  
11:31:52 Jet (34s) >5m19s\*\*\*  
11:34:29 Jet (25s) >2m37s

~~~~~Fountain off

11:37:00 Jet (29s) >2m31s

XXXX LEFT AREA XXXX

16:45:03 Jet (63s)

~~~~~Sizzler on

~~~~~Sizzler off

17:16:55 Jet (82s) >31m52s
17:23:42 Jet (66s) >6m47s
17:32:33 Jet (67s) >8m51s
17:39:47 Jet (63s) >7m14s
17:47:42 Jet (66s) >7m55s
17:55:40 Jet (64s) >7m58s
18:04:33 Jet (65s) >8m53s
18:11:24 Jet (66s) >6m51s
18:19:46 Jet (60s) >8m22s
18:28:04 Jet (64s) >8m18s
18:37:36 Jet (63s) >9m32s
18:46:43 Jet (63s) >9m07s
18:53:54 Jet (?) >7m11s
19:05:01 Jet (68s) >11m07s
19:14:25 Jet (68s) >9m24s
19:22:48 Jet (62s) >8m23s
19:30:51 Jet (70s) >8m03s
19:38:47 Jet (63s) >7m56s
19:49:19 Jet (79s) >10m32s

~~~~~Sizzler on

~~~~~Fountain on

19:58:33 Jet (?) >9m14s
20:01:49 Jet (?) >3m16s

20:03:15 Jet (34s) >1m26s

20:06:18 Jet (37s) >3m03s

20:08:18 Jet (?) >2m00s

~~~~~Sizzler off

20:10:19 Jet (24s) >2m01s

20:12:13 Jet (26s) >1m54s

20:14:05 Jet (25s) >1m52s

20:15:49 Jet (21s) >1m44s

20:17:25 Jet (22s) >1m36s

20:19:00 Jet (22s) >1m35s

20:20:27 Jet (30s) >1m27s

20:22:04 Jet (26s) >1m37s

20:23:43 Jet (19s) >1m39s

20:25:13 Jet (23s) >1m30s

20:26:44 Jet (25s) >1m31s

20:28:50 Jet (29s) >1m34s

20:29:50 Jet (30s) >1m32s

~~~~~Fountain off

20:31:35 Jet (10s) >1m45s

20:32:42 Jet (28s) >1m07s

20:49:31 Jet (60s) >6m49s

XXXX LEFT AREA XXXX

***data indicates that I may have missed an eruption

JULY 22, 1998

11:00 Fountain erupted *****(time from visitor, no pool depth recorded)*****
11:10 Fountain (ie)
11:12 Jet (?)
11:12 Spasm flooded, Twig off, Sizzler off, Clepsydra on
11:15:17 Jet (32s)
11:18:17 Jet (33s)
11:20 Clepsydra was pounding
11:21:18 Jet (24s)
11:23:52 Jet (36s)
11:26:33 Jet (30s)
11:31:56 Jet (30s)
11:34:29 Jet (25s)
11:34:43 Fountain off -----(d=34m)-----
11:37:00 Jet (29s)
11:38 LEFT AREA

12:03 Great Fountain
12:10 White Dome

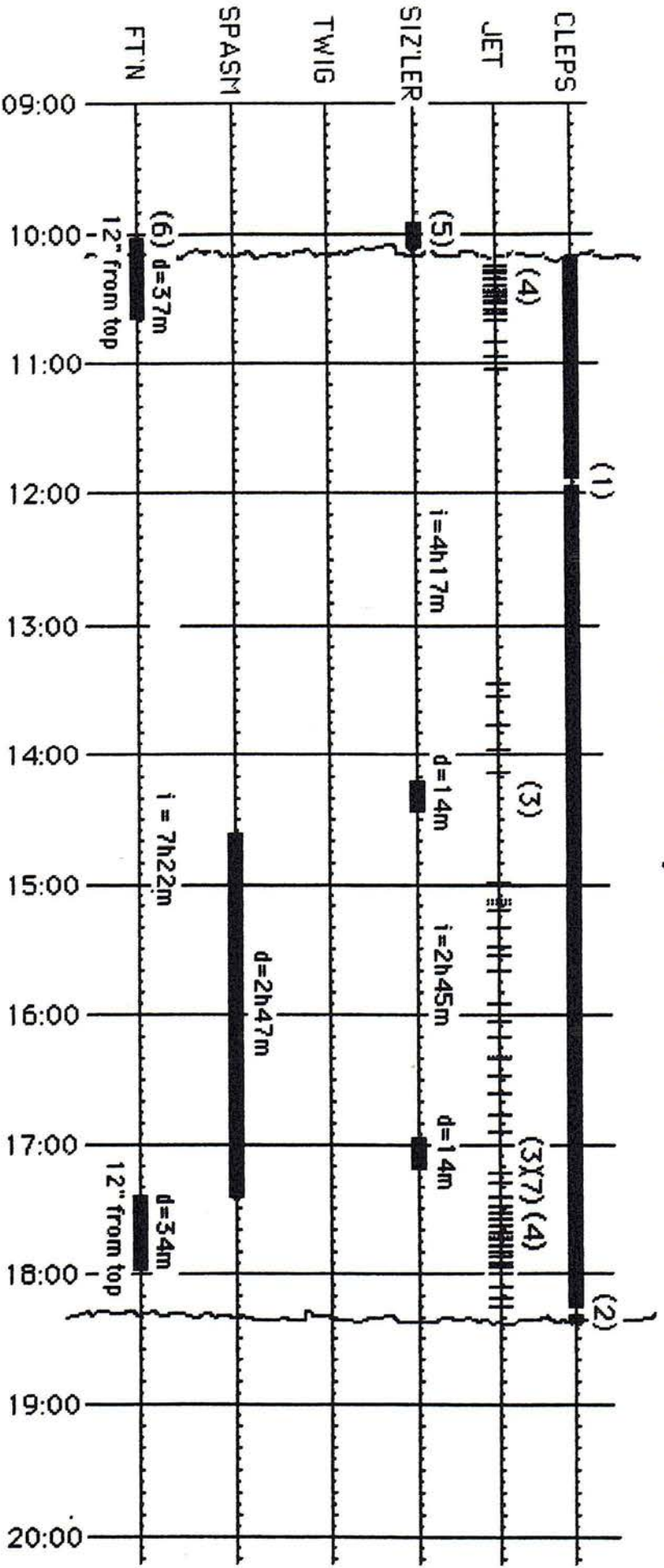
14:46 Depression (ie)
14:46 Plume
15:00 Sawmill (ie)
15:00 Tardy (ie)
15:10 Old Faithful (ie)
15:18 West Triplet
15:18 Percolator (ie)
16:00 Grand (one burst)

16:56 Twig on, Spasm on (boiling lightly), Clepsydra on, Fountain pool at 12''
16:45:03 Jet (63s)
17:01:02 Sizzler on (lots of overflow, new sput behind and to left of main vent about 8')
17:09 Sub (visible over the top)
17:12 Kaleidoscope
17:14:30 Sizzler off (d=13m)
17:16:55 Jet (82s)
17:23:42 Jet (66s)
17:32:33 Jet (67s)
17:39:47 Jet (63s)
17:43 Fountain pool at 12'' and holding
17:47:42 Jet (66s)
17:50 Twig still on, Spasm on weakly, Clepsydra still on
17:55:40 Jet (64s)
18:04:33 Jet (65s)

18:11:24 Jet (66s)
18:16 Deep Blue vent on right side, short, high, angled bursts in series about 1 min
apart lasting for about 10 min. (Mini Great Fountain)
18:19:46 Jet (60s)
18:19 Spasm drained (ie)
18:28:04 Jet (64s)
18:37:36 Jet (63s)
18:37 Kaleidoscope
18:39 Kaleidoscope
18:46:43 Jet (63s)
18:50 Twig still on
18:53:54 Jet (?)
18:59 Twig off (d=>1h5m)
19:03 Sub (visible over the top)
19:05:01 Jet (68s)
19:05 Fountain pool up to 10", then down to 12"
19:14:25 Jet (68s)
19:15 Deep Blue right hand vent
19:17 Sub
19:22:48 Jet (62s)
19:30:51 Jet (70s)
19:38:47 Jet (63s)
19:49:19 Jet (79s)
19:52:30 Sizzler on
19:55:21 Fountain on ***** (pool depth at 12" from top) *****
19:58:33 Jet (?)
20:01:49 Jet (?)
20:03:15 Jet (34s)
20:06:18 Jet (37s)
20:08:18 Jet (?)
20:09 Sizzler off (d=17m)
20:10:19 Jet (24s)
20:12:13 Jet (26s)
20:14:05 Jet (25s)
20:15:49 Jet (21s)
20:17:25 Jet (22s)
20:19:00 Jet (22s)
20:20:27 Jet (30s)
20:22:04 Jet (26s)
20:23:43 Jet (19s)
20:25:13 Jet (23s)
20:26:44 Jet (25s)
20:28:18 Jet (29s)
20:29:50 Jet (30s)
20:31:00 Fountain off -----(d=36m)-----

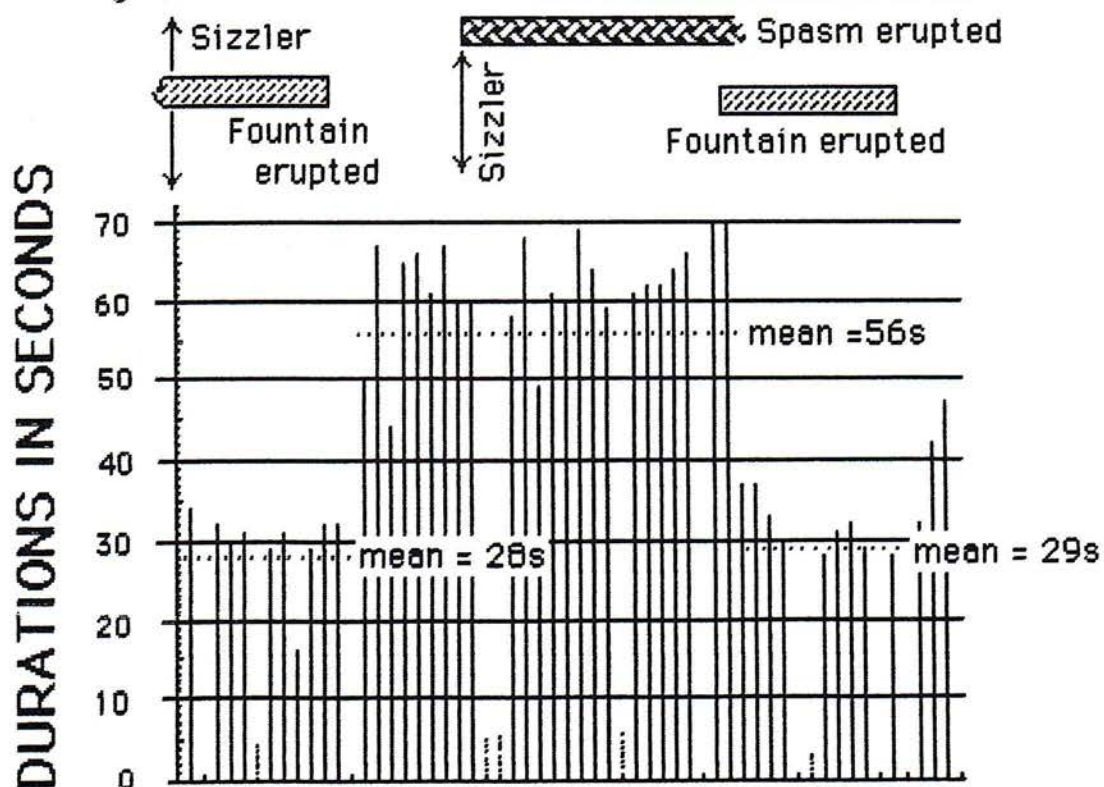
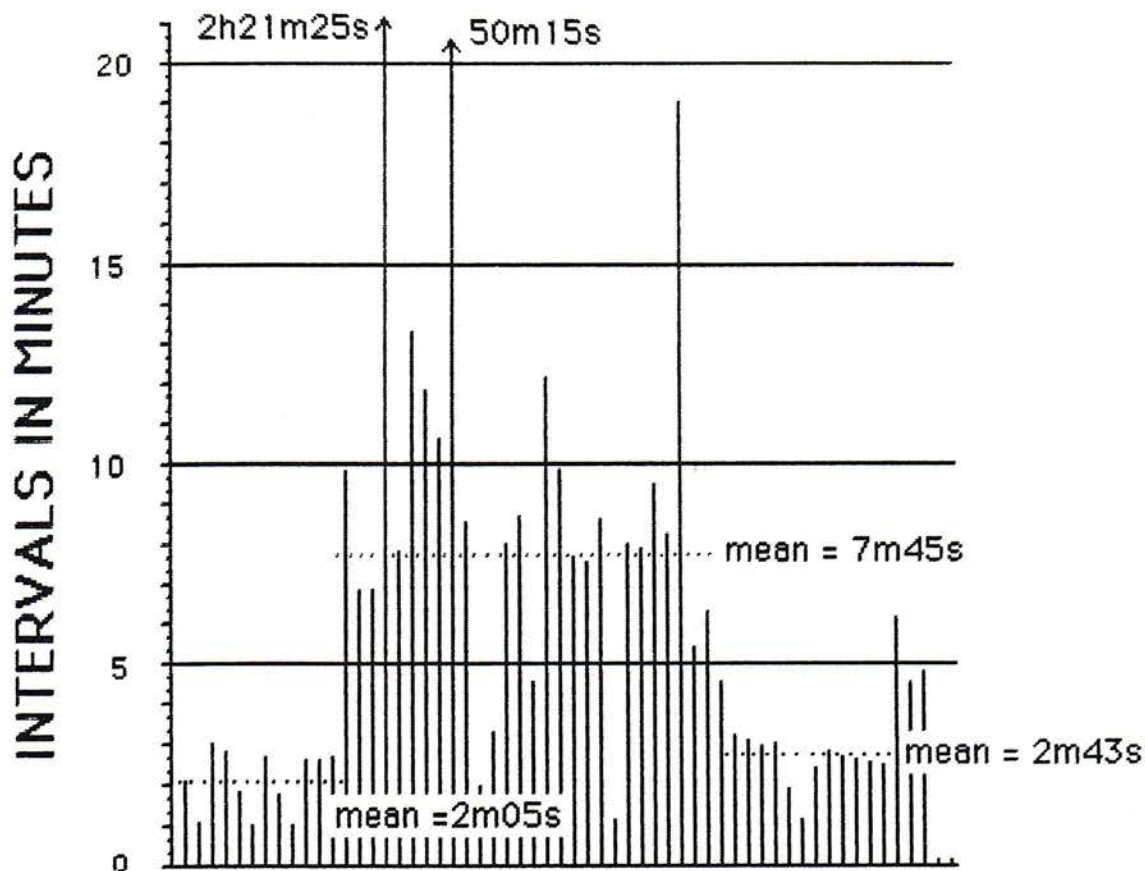
20:31:35 Jet (10s)
20:32:42 Jet (28s)
20:40:28 Clepsydra paused (9m after Fountain ended)
20:44:18 Clepsydra resumed
20:46 Clepsydra on, Spasm drained, Jet off, Sizzler off, Twig off
20:49:31 Jet (60s)
20:52 LEFT AREA

JULY 23, 1998



- (1) Clepsydra paused 15m after Fountain stopped for 2m.
- (2) Clepsydra paused 18m after Fountain stopped for 2m.
- (3) Jet stopped erupting while Sizzler erupted w/o Fountain.
- (4) Jet began erupting with short intervals and short durations while Fountain was erupting.
- (5) Start time on Sizzler was from visitor - no recorded stop time.
- (6) Start time on Fountain was from visitor as was the pool depth.
- (7) Jet resumed its series of eruptions shortly after Sizzler stopped.

CONSECUTIVE JET GEYSER INTERVALS AND DURATIONS JULY 23, 1998



1

JET GEYSER DATA LOWER GEYSER BASIN YELLOWSTONE NATIONAL PARK JULY 23, 1998

| START TIME | END TIME | INTERVAL IN H:M:S | INTERVAL MEANS | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING |
|------------|----------|-------------------|----------------|-------------------|----------------|-----------------------|----------------------|
| 10:15:32 | 10:16:06 | * | | 0:00:34 | | YES | NO |
| 10:17:35 | | 0:02:03 | | * ##### | | YES | NO |
| 10:18:40 | 10:19:12 | 0:01:05 | | 0:00:32 | | YES | NO |
| 10:21:39 | 10:22:09 | 0:02:59 | | 0:00:30 | | YES | NO |
| 10:24:28 | 10:24:59 | 0:02:49 | | 0:00:31 | | YES | NO |
| 10:26:18 | 10:26:25 | 0:01:50 | | 0:00:07 | | YES | NO |
| 10:27:19 | 10:27:48 | 0:01:01 | | 0:00:29 | | YES | NO |
| 10:29:59 | 10:30:30 | 0:02:40 | | 0:00:31 | | YES | NO |
| 10:31:42 | 10:31:58 | 0:01:43 | | 0:00:16 | | YES | NO |
| 10:32:41 | 10:33:10 | 0:00:59 | | 0:00:29 | | YES | NO |
| 10:35:16 | 10:35:48 | 0:02:35 | | 0:00:32 | | YES | NO |
| 10:37:51 | 10:38:23 | 0:02:35 | | 0:00:32 | | YES | NO |
| 10:40:30 | | 0:02:39 | 0:02:05 | * ##### | 0:00:28 | NO | NO |
| 10:50:18 | 10:51:08 | 0:09:48 | | 0:00:50 | | NO | NO |
| 10:57:07 | 10:58:14 | 0:06:49 | | 0:01:07 | | NO | NO |
| 11:03:55 | 11:04:39 | 0:06:48 | | 0:00:44 | | NO | NO |
| 13:25:20 | 13:26:25 | * 2:21:25 | | 0:01:05 | | NO | NO |
| 13:33:08 | 13:34:14 | 0:07:48 | | 0:01:06 | | NO | NO |
| 13:46:26 | 13:47:27 | 0:13:18 | | 0:01:01 | | NO | NO |
| 13:58:14 | 13:59:21 | 0:11:48 | | 0:01:07 | | NO | NO |
| 14:08:52 | 14:09:52 | 0:10:38 | | 0:01:00 | | NO | NO |
| 14:59:07 | 15:00:07 | * 0:50:15 | | 0:01:00 | | NO | YES |
| 15:07:34 | 15:07:42 | 0:08:27 | | 0:00:08 | | NO | NO |
| 15:09:32 | 15:09:38 | 0:01:58 | | 0:00:06 | | NO | NO |
| 15:12:49 | 15:13:47 | 0:03:17 | | 0:00:58 | | NO | NO |
| 15:20:43 | 15:21:51 | 0:07:54 | | 0:01:08 | | NO | NO |
| 15:29:20 | 15:30:09 | 0:08:37 | | 0:00:49 | | NO | NO |
| 15:33:53 | 15:34:54 | 0:04:33 | | 0:01:01 | | NO | NO |
| 15:46:00 | 15:47:00 | 0:12:07 | | 0:01:00 | | NO | NO |
| 15:55:55 | 15:57:04 | 0:09:55 | | 0:01:09 | | NO | NO |
| 16:03:32 | 16:04:36 | 0:07:37 | | 0:01:04 | | NO | NO |
| 16:10:59 | 16:11:58 | 0:07:27 | | 0:00:59 | | NO | NO |
| 16:19:32 | 16:19:39 | 0:08:33 | | 0:00:07 | | NO | NO |
| 16:20:42 | 16:21:43 | 0:01:10 | | 0:01:01 | | NO | NO |
| 16:28:40 | 16:29:42 | 0:07:58 | | 0:01:02 | | NO | NO |
| 16:36:30 | 16:37:32 | 0:07:50 | | 0:01:02 | | NO | NO |
| 16:46:02 | 16:47:06 | 0:09:32 | | 0:01:04 | | NO | NO |
| 16:54:14 | 16:55:20 | 0:08:12 | | 0:01:06 | | NO | NO |
| 17:13:19 | | * 0:19:05 | | * ##### | | NO | YES |
| 17:18:44 | 17:19:54 | 0:05:25 | | 0:01:10 | | NO | NO |
| 17:25:00 | 17:26:10 | 0:06:16 | 0:07:45 | 0:01:10 | 0:00:56 | YES | NO |
| 17:29:31 | 17:30:08 | 0:04:31 | | 0:00:37 | | YES | NO |
| 17:32:44 | 17:33:21 | 0:03:13 | | 0:00:37 | | YES | NO |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

2

**JET GEYSER DATA
LOWER GEYSER BASIN
YELLOWSTONE NATIONAL PARK
JULY 23, 1998**

| START TIME | END TIME | INTERVAL IN H:M:S | INTERVAL MEANS | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING |
|------------|----------|-------------------|----------------|-------------------|----------------|-----------------------|----------------------|
| 17:35:47 | 17:36:20 | 0:03:03 | | 0:00:33 | | YES | NO |
| 17:38:44 | 17:39:14 | 0:02:57 | | 0:00:30 | | YES | NO |
| 17:41:43 | | 0:02:59 | | * ##### | | YES | NO |
| 17:43:35 | 17:43:42 | 0:01:52 | | 0:00:07 | | YES | NO |
| 17:44:42 | 17:45:10 | 0:01:07 | | 0:00:28 | | YES | NO |
| 17:47:18 | 17:47:49 | 0:02:36 | | 0:00:31 | | YES | NO |
| 17:50:06 | 17:50:38 | 0:02:48 | | 0:00:32 | | YES | NO |
| 17:52:46 | 17:53:15 | 0:02:40 | | 0:00:29 | | YES | NO |
| 17:55:23 | | 0:02:37 | | * ##### | | YES | NO |
| 17:57:56 | 17:58:24 | 0:02:33 | | 0:00:28 | | YES | NO |
| 18:00:24 | | 0:02:28 | 0:02:43 | * ##### | 0:00:29 | NO | NO |
| 18:06:32 | 18:07:04 | * 0:06:08 | | * 0:00:32 | | NO | NO |
| 18:11:03 | 18:11:45 | * 0:04:31 | | * 0:00:42 | | NO | NO |
| 18:15:50 | 18:16:37 | * 0:04:47 | | * 0:00:47 | | NO | NO |
| LEFT AREA | | | | | | | |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

JULY 23, 1998

Time of Jet Geyser eruption (duration of eruption in seconds) > time period between eruptions in minutes and seconds

| | |
|---|--|
| <p>~~~~~Sizzler on</p> <p>~~~~~Fountain on</p> <p>~~~~~Sizzler off</p> <p>10:15:32 Jet (34s)</p> <p>10:17:35 Jet (?) >2m03s</p> <p>10:18:40 Jet (32s) >1m05s</p> <p>10:21:39 Jet (30s) >2m59s</p> <p>10:24:28 Jet (31s) >2m49s</p> <p>10:26:18 Jet (one spurt) >1m50s</p> <p>10:27:19 Jet (29s) >1m01s</p> <p>10:29:59 Jet (31s) >2m40s</p> <p>10:31:42 Jet (16s) >1m43s</p> <p>10:32:41 Jet (29s) >0m59s</p> <p>10:35:16 Jet (32s) >2m35s</p> <p>10:37:51 Jet (32s) >2m35s</p> <p>~~~~~Fountain off</p> <p>10:40:30 Jet (?) >2m39s</p> <p>10:50:18 Jet (50s) >9m48s</p> <p>10:57:07 Jet (67s) >6m49s</p> <p>11:03:55 Jet (44s) >6m48s</p> <p>13:25:20 Jet (65s) >2h21m25s</p> <p>13:33:08 Jet (66s) >7m48s</p> <p>13:46:26 Jet (61s) >13m18s</p> <p>13:58:14 Jet (67s) >11m48s</p> <p>14:08:52 Jet (60s) >10m38s</p> <p>~~~~~Sizzler on</p> <p>~~~~~Sizzler off</p> <p>14:59:07 Jet (60s) >50m15s</p> <p>15:07:34 Jet (one splash) >8m27s</p> <p>15:09:32 Jet (one splash) >1m58s</p> <p>15:12:49 Jet (58s) >3m17s</p> <p>15:20:43 Jet (68s) >7m54s</p> <p>15:29:20 Jet (49s) >8m37s</p> <p>15:33:53 Jet (61s) >4m33s</p> <p>15:46:00 Jet (60s) >12m07s</p> <p>15:55:55 Jet (69s) >9m55s</p> <p>16:03:32 Jet (64s) >7m37s</p> <p>16:10:59 Jet (59s) >7m27s</p> <p>16:19:32 Jet (one splash) >8m33s</p> <p>16:20:42 Jet (61s) >1m10s</p> <p>16:28:40 Jet (62s) >7m58s</p> | <p>16:36:30 Jet (62s) >7m50s</p> <p>16:46:02 Jet (64s) >9m32s</p> <p>16:54:14 Jet (66s) >8m12s</p> <p>~~~~~Sizzler on</p> <p>~~~~~Sizzler off</p> <p>17:13:19 Jet (?) >19m05s</p> <p>17:18:44 Jet (70s) >5m25s</p> <p>~~~~~Fountain on</p> <p>17:25:00 Jet (70s) >6m16s</p> <p>17:29:31 Jet (37s) >4m31s</p> <p>17:32:44 Jet (37s) >3m13s</p> <p>17:35:47 Jet (33s) >3m03s</p> <p>17:38:44 Jet (30s) >2m57s</p> <p>17:41:43 Jet (?) >2m59s</p> <p>17:43:35 Jet (one splash) >1m52s</p> <p>17:44:42 Jet (28s) >1m07s</p> <p>17:47:18 Jet (31s) >2m36s</p> <p>17:50:06 Jet (32s) >2m48s</p> <p>17:52:46 Jet (29s) >2m40s</p> <p>17:55:23 Jet (?) >2m37s</p> <p>17:57:56 Jet (28s) >2m33s</p> <p>~~~~~Fountain off</p> <p>18:00:24 Jet (?) >2m28s</p> <p>18:06:32 Jet (32s) >6m08s</p> <p>18:11:03 Jet (42s) >4m31s</p> <p>18:15:50 Jet (47s) >4m47s</p> <p style="text-align: center;">XXXX LEFT AREA XXXX</p> |
|---|--|

JULY 23, 1998

09:55 Sizzler on (from others)
10:02 Fountain on *****(others said pool depth about 12" from top)*****
10:10 Arrived in area - Spasm overflowing, Twig off, Sizzler was on at start of
Fountain, but off when I arrived
10:15:32 Jet (34s)
10:17:35 Jet (?)
10:18:40 Jet (32s)
10:21:39 Jet (30s)
10:24:28 Jet (31s)
10:24 Bear Claw
10:26:18 Jet (one spurt)
10:27:19 Jet (29s)
10:29:59 Jet (31s)
10:31:42 Jet (16s)
10:32:41 Jet (29s)
10:35:16 Jet (32s)
10:37:51 Jet (32s)
10:39:13 Fountain off -----(d=37m)-----
10:40:30 Jet (?)
10:48 Fountain pool drained out of sight, Clepsydra still going, everything else is off.
10:50:18 Jet (50s)
10:54:55 Clepsydra paused (15m after Fountain ended)
10:55 Kaleidoscope's Indicator
10:57:07 Clepsydra resumed
10:57:07 Jet (67s)
10:58:08 Spasm was draining (about 1/3rd full)
11:01 Spasm empty
11:03:55 Jet (44s)
11:13 Sub (visible by about 18" over the top)
11:30 Kaleidoscope's Indicator
11:33 Firehose on
11:46 Spasm still empty
11:56 Kaleidoscope's Indicator
12:01 Fountain pool up to 18", Spasm still empty
12:18 Kaleidoscope's Indicator
12:57 Left of Deep Blue, Vent #11?? I'll call it 2nd Tree Geyser due to its location in
the trees beyond Kaleidoscope area.
12:59 Kaleidoscope's Indicator
13:04 Fountain's pool up a bit to 16"
13:06 Spasm still empty, Jet still off
13:16 Fountain pool was rising slowly to 14"
13:22 Kaleidoscope
13:25:20 Jet (65s)

13:30 Spasm still empty
13:33:08 Jet (66s)
13:46:26 Jet (61s)
13:49 Fountain pool at 13"
13:58:14 Jet (67s)
14:00 Fountain pool at 12"
14:01 Spasm began to fill
14:08:52 Jet (60s)
14:11 2nd Tree Geyser
14:12:12 Sizzler on (right vent to 12" threw up bits of sinter)
14:14 Spasm pool was slowly filling
14:18 Spasm 1/3rd full and was bubbling vigorously
14:19 Spasm drained
14:20 Fountain pool still at 12"
14:26:55 Sizzler off (d=14m)
14:30 Spasm pool was filling and bubbled vigorously
14:36 Spasm's two pools almost joined into one
14:37 Spasm on - pool was still filling
14:59:07 Jet (60s)
15:01 Fountain pool was still at 12"
15:07:34 Jet (one splash)
15:09:32 Jet (small splash)
15:10 Spasm began overflow
15:12:49 Jet (58s)
15:20:43 Jet (68s)
15:22 Kaleidoscope's Indicator
15:29:20 Jet (49s)
15:33:53 Jet (61s)
15:46:00 Jet (60s)
15:55:55 Jet (69s) (slow start)
16:02 Kaleidoscope's Indicator
16:03:32 Jet (64s)
16:10:59 Jet (59s)
16:19:32 Jet (one splash)
16:20:42 Jet (61s)
16:25 Kaleidoscope
16:28:40 Jet (62s)
16:36:30 Jet (62s)
16:37 Kaleidoscope's Indicator
16:44 Fountain pool had a mini-surge
16:46:02 Jet (64s)
16:51 Fountain pool had another small surge
16:54:14 Jet (66s)
16:56 Spasm still on
16:57:19 Sizzler on

17:01 Kaleidoscope's Indicator
17:11:09 Sizzler off (d=14m)
17:13:19 Jet (?)
17:18:44 Jet (70s)
17:23 Fountain's pool began large surge
17:24:00 Fountain on ***** (pool depth at 12" from top)*****
17:25:00 Jet (70s)
17:29:31 Jet (37s)
17:32:44 Jet (37s)
17:35:47 Jet (33s)
17:35 Morning's Thief
17:38:44 Jet (30s)
17:41:43 Jet (?)
17:43:35 Jet (one splash)
17:44:42 Jet (28s)
17:47:18 Jet (31s)
17:50:06 Jet (32s)
17:52:46 Jet (29s)
17:55:23 Jet (?)
17:57:56 Jet (28s)
17:58:24 Fountain off -----(d=34m)-----
18:00:24 Jet (?)
18:01 2nd Tree Geyser
18:06:32 Jet (32s)
18:11:03 Jet (42s)
18:15:50 Jet (47s)
18:16:12 Clepsydra paused (18m after Fountain ended)
18:17 Kaleidoscope's Indicator
18:19:28 Clepsydra resumed slowly
18:20 Spasm empty, Fountain empty, Twig empty
18:21 LEFT AREA

18:44 Lion (ie)

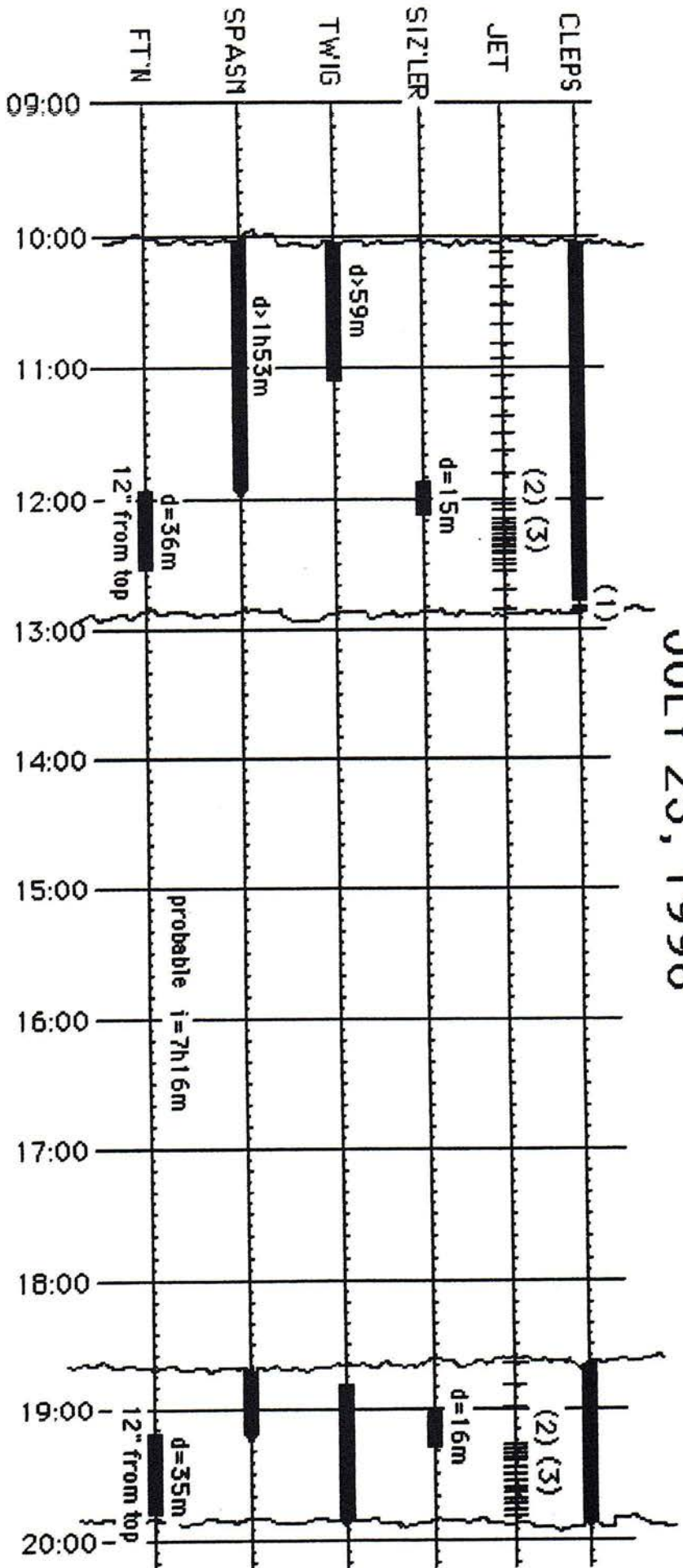
JULY 24, 1998

10:43 Daisy
11:30 Riverside
12:41 Atomizer
12:42 Artemesia (d=23m) Wonderful eruption!
13:58 Grotto w/o Grotto Fountain
14:03 South Grotto Fountain began to erupt, then quit
14:07 South Grotto Fountain erupted

07:28 Fountain (d=34m40s) from Lynn Stevens
14:46 Fountain (d=34m) from Lynn Stevens

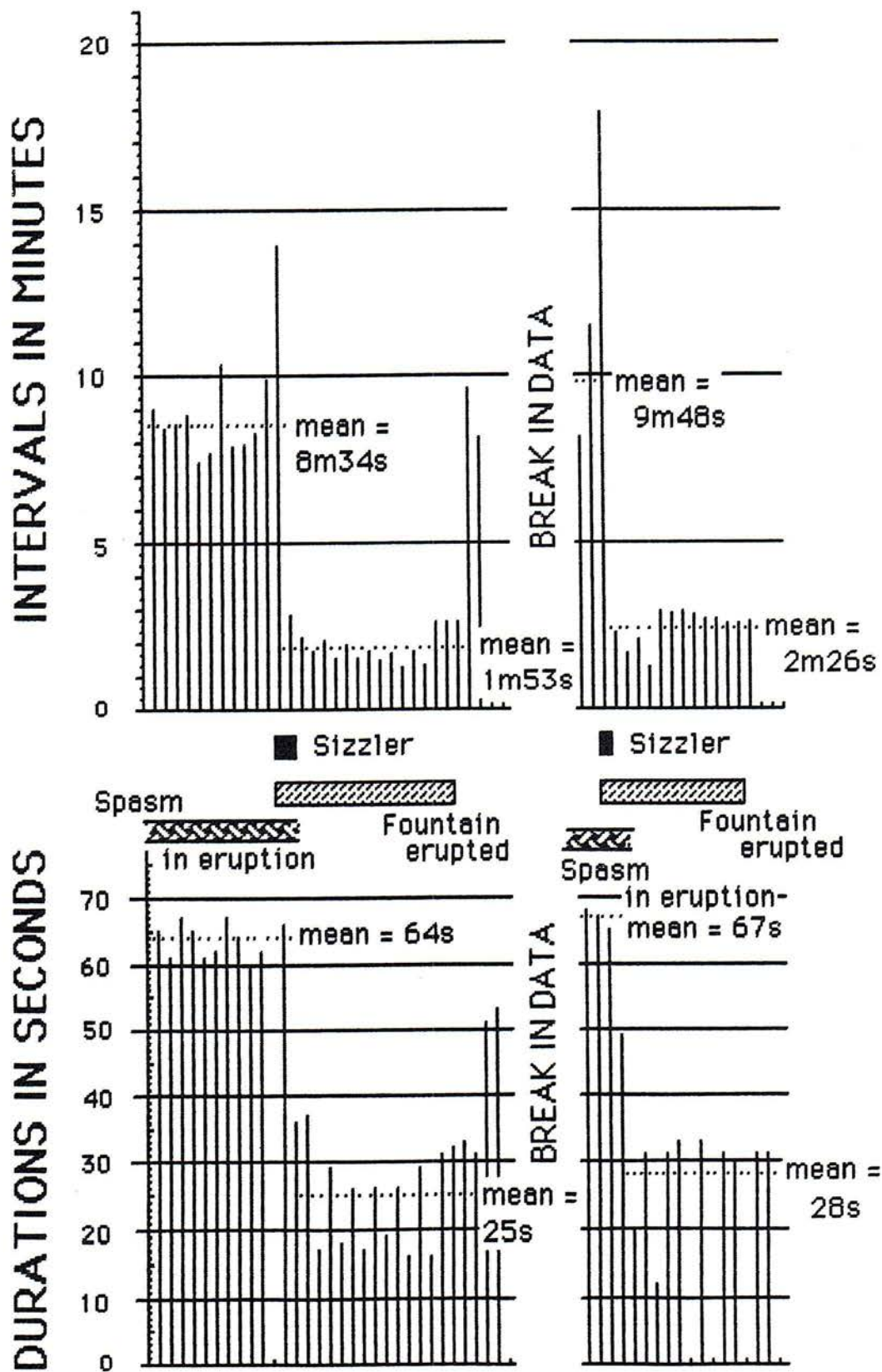
17:14 Guidebook Spring (near Lone Pine at West Thumb)
20:28 Lone Pine (d=15m)

JULY 25, 1998



- (1) Clepsydra paused 16m after Fountain stopped for 2m.
- (2) Jet stopped its series of eruptions as soon as Sizzler erupted, but began erupting again 5m after Fountain began to erupt with Sizzler still in eruption. This same thing happened again in the afternoon eruption of Fountain.
- (3) Jet shortened its intervals and durations as soon as Fountain erupted.

CONSECUTIVE JET GEYSER INTERVALS AND DURATIONS JULY 25, 1998



1

JET GEYSER DATA LOWER GEYSER BASIN YELLOWSTONE NATIONAL PARK JULY 35, 1995

| START TIME | END TIME | INTERVAL IN H:M:S | INTERVAL MEANS | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING | |
|------------|----------|-------------------|----------------|-------------------|----------------|-----------------------|----------------------|-----|
| 10:06:00 | | | | * | ##### | NO | NO | |
| 10:14:32 | 10:15:37 | 0:08:32 | | | 0:01:05 | NO | NO | |
| 10:23:32 | 10:24:33 | 0:09:00 | | | 0:01:01 | NO | NO | |
| 10:31:57 | 10:33:04 | 0:08:25 | | | 0:01:07 | NO | NO | |
| 10:40:30 | 10:41:35 | 0:08:33 | | | 0:01:05 | NO | NO | |
| 10:49:19 | 10:50:20 | 0:08:49 | | | 0:01:01 | NO | NO | |
| 10:56:53 | 10:57:55 | 0:07:34 | | | 0:01:02 | NO | NO | |
| 11:04:34 | 11:05:41 | 0:07:41 | | | 0:01:07 | NO | NO | |
| 11:14:54 | 11:15:58 | 0:10:20 | | | 0:01:04 | NO | NO | |
| 11:22:46 | 11:23:46 | 0:07:52 | | | 0:01:00 | NO | NO | |
| 11:30:40 | 11:31:42 | 0:07:54 | | | 0:01:02 | NO | NO | |
| 11:38:51 | | 0:08:11 | | * | ##### | NO | NO | |
| 11:48:43 | 11:49:49 | 0:09:52 | | | 0:01:06 | NO | NO | |
| 12:02:40 | 12:03:16 | * 0:13:57 | 0:08:34 | * | 0:00:36 | 0:01:04 | YES | YES |
| 12:05:30 | 12:06:07 | 0:02:50 | | | 0:00:37 | | YES | YES |
| 12:07:40 | 12:07:57 | 0:02:10 | | | 0:00:17 | | YES | NO |
| 12:09:24 | 12:09:53 | 0:01:44 | | | 0:00:29 | | YES | NO |
| 12:11:28 | 12:11:46 | 0:02:04 | | | 0:00:18 | | YES | NO |
| 12:13:00 | 12:13:26 | 0:01:32 | | | 0:00:26 | | YES | NO |
| 12:14:55 | 12:15:12 | 0:01:55 | | | 0:00:17 | | YES | NO |
| 12:16:26 | 12:16:52 | 0:01:31 | | | 0:00:26 | | YES | NO |
| 12:18:09 | 12:18:28 | 0:01:43 | | | 0:00:19 | | YES | NO |
| 12:19:36 | 12:20:02 | 0:01:27 | | | 0:00:26 | | YES | NO |
| 12:21:15 | 12:21:31 | 0:01:39 | | | 0:00:16 | | YES | NO |
| 12:22:33 | 12:23:02 | 0:01:18 | | | 0:00:29 | | YES | NO |
| 12:24:17 | 12:24:33 | 0:01:44 | | | 0:00:16 | | YES | NO |
| 12:25:37 | 12:26:08 | 0:01:20 | | | 0:00:31 | | YES | NO |
| 12:28:14 | 12:28:46 | 0:02:37 | | | 0:00:32 | | YES | NO |
| 12:30:49 | 12:31:22 | 0:02:35 | | | 0:00:33 | | YES | NO |
| 12:33:24 | 12:33:55 | * 0:02:35 | 0:01:53 | * | 0:00:31 | 0:00:25 | NO | NO |
| 12:42:58 | 12:43:49 | 0:09:34 | | | 0:00:51 | | NO | NO |
| 12:51:06 | 12:51:59 | 0:08:08 | | | 0:00:53 | | NO | NO |
| LEFT AREA | | | | | | | | |
| 18:39:41 | 18:40:49 | * ##### | | | 0:01:08 | | NO | NO |
| 18:47:49 | 18:48:56 | 0:08:08 | | | 0:01:07 | | NO | NO |
| 18:59:16 | 19:00:21 | 0:11:27 | | | 0:01:05 | | NO | NO |
| 19:17:10 | 19:17:59 | * 0:17:54 | 0:09:48 | * | 0:00:49 | 0:01:07 | YES | YES |
| 19:19:30 | 19:19:50 | 0:02:20 | | | 0:00:20 | | YES | NO |
| 19:21:10 | 19:21:41 | 0:01:40 | | | 0:00:31 | | YES | NO |
| 19:23:14 | 19:23:26 | 0:02:04 | | | 0:00:12 | | YES | NO |
| 19:24:30 | 19:25:01 | 0:01:16 | | | 0:00:31 | | YES | NO |
| 19:27:27 | 19:28:00 | 0:02:57 | | | 0:00:33 | | YES | NO |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

**JET GEYSER DATA
LOWER GEYSER BASIN
YELLOWSTONE NATIONAL PARK
JULY 35, 1995**

| START TIME | END TIME | INTERVAL IN H:M:S | INTERVAL MEANS | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING | |
|------------|----------|-------------------|----------------|-------------------|----------------|-----------------------|----------------------|----|
| 19:30:20 | | 0:02:53 | | * | ##### | YES | NO | |
| 19:33:15 | 19:33:48 | 0:02:55 | | | 0:00:33 | YES | NO | |
| 19:36:03 | | 0:02:48 | | * | ##### | YES | NO | |
| 19:38:42 | 19:39:13 | 0:02:39 | | | 0:00:31 | YES | NO | |
| 19:41:20 | 19:41:50 | 0:02:38 | | | 0:00:30 | YES | NO | |
| 19:43:54 | | 0:02:34 | | * | ##### | YES | NO | |
| 19:46:28 | 19:46:59 | 0:02:34 | | | 0:00:31 | YES | NO | |
| 19:49:04 | 19:49:35 | 0:02:36 | 0:02:26 | | 0:00:31 | 0:00:28 | NO | NO |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

JULY 25, 1998

Time of Jet Geyser eruption(duration of eruption in seconds) >time period between eruptions in minutes and seconds

10:07 Jet (ie)
10:14:32 Jet (65s)
10:23:32 Jet (61s) >9m00s
10:31:57 Jet (67s) >8m25s
10:40:30 Jet (65s) >8m33s
10:49:19 Jet (61s) >8m49s
10:56:53 Jet (62s) >7m24s
11:04:34 Jet (67s) >7m41s
11:14:54 Jet (64s) >10m20s
11:22:46 Jet (60s) >7m52s
11:30:40 Jet (62s) >7m54s
11:38:51 Jet (?) >8m11s
11:48:43 Jet (66s) >9m52s
~~~~~Sizzler on  
~~~~~Fountain on  
12:02:40 Jet (36s) >13m57s
12:05:30 Jet (37s) >2m50s
~~~~~Sizzler off  
12:07:40 Jet (17s) >2m10s  
12:09:24 Jet (29s) >1m44s  
12:11:28 Jet (18s) >2m04s  
12:13:00 Jet (26s) >1m32s  
12:14:55 Jet (17s) >1m55s  
12:16:26 Jet (26s) >1m31s  
12:18:09 Jet (19s) >1m43s  
12:19:36 Jet (26s) >1m27s  
12:21:15 Jet (16s) >1m39s  
12:22:33 Jet (29s) >1m18s  
12:24:17 Jet (16s) >1m44s  
12:25:37 Jet (31s) >1m20s  
12:28:14 Jet (32s) >2m37s  
12:30:49 Jet (33s) >2m35s  
~~~~~Fountain off  
12:33:24 Jet (31s) >2m35s
12:42:58 Jet (51s) >9m34s
12:51:06 Jet (53s) >8m08s

XXXX LEFT AREA XXXX

18:39:41 Jet (68s)
18:47:49 Jet (67s) >8m08s
18:59:16 Jet (65s) >11m27s
~~~~~Sizzler on  
~~~~~Fountain on  
19:17:10 Jet (49s) >17m54s
~~~~~Sizzler off  
19:19:30 Jet (20s) >2m20s  
19:21:10 Jet (31s) >1m40s  
19:23:14 Jet (12s) >2m04s  
19:24:30 Jet (31s) >1m16s  
19:27:27 Jet (33s) >2m57s  
19:30:20 Jet (?) >2m53s  
19:33:15 Jet (33s) >2m55s  
19:36:03 Jet (?) >2m48s  
19:38:42 Jet (31s) >2m39s  
19:41:20 Jet (30s) >2m38s  
19:43:54 Jet (?) >2m34s  
19:46:28 Jet (31s) >2m34s  
~~~~~Fountain off  
19:49:04 Jet (31s) >2m36s

XXXX LEFT AREA XXXX

JULY 25, 1998

10:07 Entered Fountain area - Fountain pool at 12", Spasm full, Twig on, Sizzler off,
Clepsydra on
10:07 Jet (ie)
10:14:32 Jet (65s)
10:23:32 Jet (61s)
10:26 Kaleidoscope's Indicator
10:31:57 Jet (67s)
10:40:30 Jet (65s)
10:41 Bear Claw
10:42 Fountain pool at 12"
10:44 Firehose on (ie)
10:49:19 Jet (61s)
10:55 2nd Tree Geyser
10:56:53 Jet (62s)
11:04:34 Jet (67s)
11:05 Kaleidoscope's Indicator
11:06 Twig off
11:14:54 Jet (64s)
11:22:46 Jet (60s)
11:30:40 Jet (62s)
11:34 Something in Kaleidoscope area
11:36 Sub
11:38:51 Jet (?)
11:41 Sub
11:43 Spasm still on
11:48:43 Jet (66s)
11:52 Sizzler on
11:56 Large surge in Fountain
11:56:56 Fountain on ***** (pool depth at 12" from top)*****
11:58 Kaleidoscope's Indicator
12:00 2nd Tree Geyser
12:02:40 Jet (36s)
12:05:30 Jet (37s)
12:07 Sizzler off (d=15m)
12:07:40 Jet (17s)
12:09:24 Jet (29s)
12:11:28 Jet (18s)
12:13:00 Jet (26s)
12:14:55 Jet (17s)
12:16:26 Jet (26s)
12:18:09 Jet (19s)
12:19:36 Jet (26s)
12:20 Huge burst from Fountain

12:21:15 Jet (16s)
12:22:33 Jet (29s)
12:23 2nd Tree Geyser
12:24:17 Jet (16s)
12:25:37 Jet (31s)
12:28:14 Jet (32s)
12:28 2nd Tree Geyser
12:30:49 Jet (33s)
12:32:30 Fountain off -----(d=36m)-----
12:33:24 Jet (31s)
12:38 Sub
12:39 Kaleidoscope
12:42:58 Jet (51s)
12:44 2nd Tree Geyser
12:48 Clepsydra paused (16m after Fountain ended)
12:50:51 Clepsydra resumed
12:51:06 Jet (53s)
12:52 LEFT AREA

14:00 Castle
14:21 Old Faithful
14:29 Plume (3 bursts)
16:10 Artemesia
17:51 Grand (2 bursts)

18:39:41 Jet (68s)
18:39 Spasm on, Twig off, Clepsydra on, Sizzler off, Fountain pool at 11-12"
18:47 Twig on
18:47:49 Jet (67s)
18:50 Kaleidoscope's Indicator
18:59:16 Jet (65s)
19:02:21 Sizzler on
19:12:38 Surge in Fountain's pool
19:12:51 Fountain on ***** (pool at 12" from top)*****
19:17:10 Jet (49s)
19:18 Sizzler off (d=16m)
19:19:30 Jet (20s)
19:21:10 Jet (31s)
19:23:14 Jet (12s)
19:24:30 Jet (31s)
19:27:27 Jet (33s)
19:30:20 Jet (?)
19:33:15 Jet (33s)
19:36:03 Jet (?)
19:38:42 Jet (31s)

19:41:20 Jet (30s)

19:43:54 Jet (?)

19:46:28 Jet (31s)

19:47:51 Fountain off -----(d=35m)-----

19:49:04 Jet (31s)

19:50 LEFT AREA

JULY 26, 1998

09:04 Jet (?)

09:04 Spasm empty, Fountain pool way down, Twig steaming but off, Sizzler off,
Clepsydra on

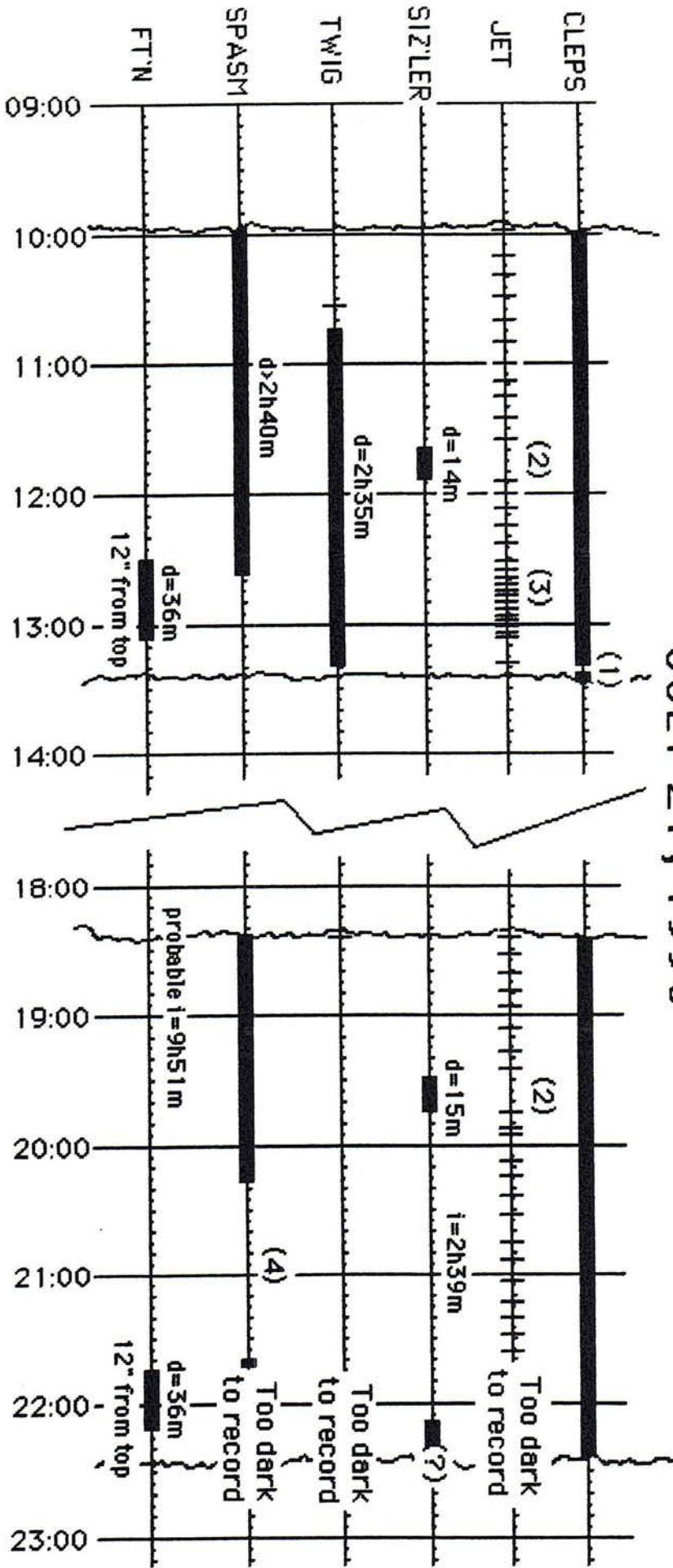
09:14 Kaleidoscope's Indicator

09:51 Flood (ie) from Midway Basin

13:55 Fountain (ie) (info from OFVC)

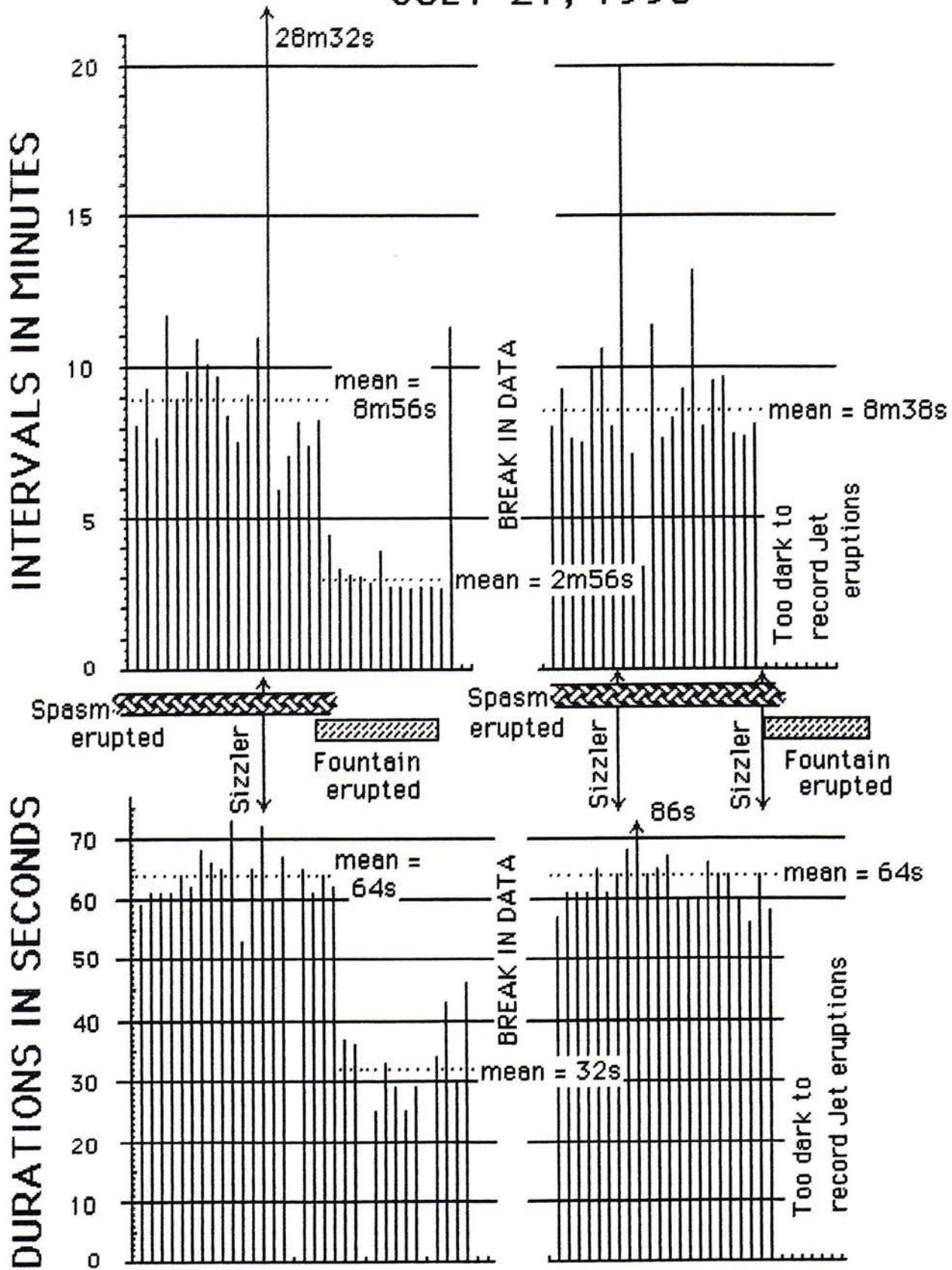
20:34 Fountain (info from visitor)

JULY 27, 1998



- (1) Clepsydra paused 14m after Fountain stopped erupting for 3m.
- (2) Jet stopped its series of eruptions as Sizzler erupted, but resumed its series 1m after Sizzler stopped.
- (3) Jet began erupting with short intervals and durations as Fountain erupted.
- (4) Spasm drained completely 1h28m before Fountain erupted and began to fill its pool 5m before Fountain erupted.

CONSECUTIVE JET GEYSER INTERVALS AND DURATIONS JULY 27, 1998



**JET GEYSER DATA
LOWER GEYSER BASIN
YELLOWSTONE NATIONAL PARK
JULY 27, 1998**

| START TIME | END TIME | | INTERVAL IN H:M:S | INTERVAL MEANS | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING |
|------------|----------|---|-------------------|----------------|-------------------|----------------|-----------------------|----------------------|
| 9:58:51 | 9:59:50 | * | | | 0:00:59 | | NO | NO |
| 10:10:33 | 10:11:37 | | 0:11:42 | | 0:01:04 | | NO | NO |
| 10:19:28 | 10:20:30 | | 0:08:55 | | 0:01:02 | | NO | NO |
| 10:29:21 | 10:30:29 | | 0:09:53 | | 0:01:08 | | NO | NO |
| 10:40:14 | 10:41:20 | | 0:10:53 | | 0:01:06 | | NO | NO |
| 10:50:20 | 10:51:25 | | 0:10:06 | | 0:01:05 | | NO | NO |
| 11:00:00 | 11:01:13 | | 0:09:40 | | 0:01:13 | | NO | NO |
| 11:08:24 | 11:09:18 | | 0:08:24 | | 0:00:54 | | NO | NO |
| 11:15:57 | 11:17:02 | | 0:07:33 | | 0:01:05 | | NO | NO |
| 11:25:00 | 11:26:12 | | 0:09:03 | | 0:01:12 | | NO | NO |
| 11:35:57 | 11:36:57 | | 0:10:57 | | 0:01:00 | | NO | NO |
| 11:54:29 | 11:55:36 | * | 0:18:32 | | 0:01:07 | | NO | YES |
| 12:00:23 | | | 0:05:54 | * | ##### | | NO | NO |
| 12:07:31 | 12:08:36 | | 0:07:08 | | 0:01:05 | | NO | NO |
| 12:15:43 | 12:16:44 | | 0:08:12 | | 0:01:01 | | NO | NO |
| 12:23:09 | 12:24:13 | | 0:07:26 | | 0:01:04 | | NO | NO |
| 12:31:27 | 12:32:29 | | 0:08:18 | 0:08:56 | 0:01:02 | 0:01:04 | YES | NO |
| 12:35:50 | 12:36:27 | | 0:04:23 | | 0:00:37 | | YES | NO |
| 12:39:05 | 12:39:41 | | 0:03:15 | | 0:00:36 | | YES | NO |
| 12:42:09 | | | 0:03:04 | * | ##### | | YES | NO |
| 12:45:08 | 12:45:33 | | 0:02:59 | | 0:00:25 | | YES | NO |
| 12:47:58 | 12:48:31 | | 0:02:50 | | 0:00:33 | | YES | NO |
| 12:50:50 | 12:51:19 | | 0:02:52 | | 0:00:29 | | YES | NO |
| 12:53:30 | 12:53:55 | | 0:02:40 | | 0:00:25 | | YES | NO |
| 12:56:11 | 12:56:40 | | 0:02:41 | | 0:00:29 | | YES | NO |
| 12:58:47 | | | 0:02:36 | * | ##### | | YES | NO |
| 13:01:26 | 13:02:00 | | 0:02:39 | | 0:00:34 | | YES | NO |
| 13:04:06 | 13:04:49 | | 0:02:40 | | 0:00:43 | | YES | NO |
| 13:06:44 | 13:07:11 | | 0:02:38 | 0:02:56 | 0:00:27 | 0:00:32 | NO | NO |
| 13:18:02 | 13:18:48 | * | 0:11:18 | | 0:00:46 | | NO | NO |
| LEFT AREA | | | | | | | | |
| 18:24:07 | 18:25:04 | * | | | 0:00:57 | | NO | NO |
| 18:32:10 | 18:33:11 | | 0:08:03 | | 0:01:01 | | NO | NO |
| 18:41:27 | 18:42:28 | | 0:09:17 | | 0:01:01 | | NO | NO |
| 18:49:09 | 18:50:10 | | 0:07:42 | | 0:01:01 | | NO | NO |
| 18:56:42 | 18:57:47 | | 0:07:33 | | 0:01:05 | | NO | NO |
| 19:06:42 | 19:07:43 | | 0:10:00 | | 0:01:01 | | NO | NO |
| 19:17:17 | 19:18:21 | | 0:10:35 | | 0:01:04 | | NO | NO |
| 19:25:20 | 19:26:28 | | 0:08:03 | | 0:01:08 | | NO | NO |
| 19:45:16 | 19:46:42 | * | 0:19:56 | | 0:01:26 | | NO | YES |
| 19:52:25 | 19:53:29 | | 0:07:09 | | 0:01:04 | | NO | NO |
| 19:55:45 | 19:56:50 | | 0:03:20 | | 0:01:05 | | NO | NO |
| 20:07:07 | 20:08:14 | | 0:11:22 | | 0:01:07 | | NO | NO |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

**JET GEYSER DATA
LOWER GEYSER BASIN
YELLOWSTONE NATIONAL PARK
JULY 27, 1998**

| START TIME | END TIME | INTERVAL IN H:M:S | INTERVAL MEANS | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING | |
|------------|----------|-----------------------------|----------------|-------------------|----------------|-----------------------|----------------------|-----|
| 20:14:49 | 20:15:56 | 0:07:42 | | 0:01:07 | | NO | NO | |
| 20:23:11 | 20:24:11 | 0:08:22 | | 0:01:00 | | NO | NO | |
| 20:32:36 | 20:33:42 | 0:09:25 | | 0:01:06 | | NO | NO | |
| 20:45:44 | 20:46:50 | 0:13:08 | | 0:01:06 | | NO | NO | |
| 20:53:47 | 20:54:51 | 0:08:03 | | 0:01:04 | | NO | NO | |
| 21:03:18 | 21:04:22 | 0:09:31 | | 0:01:04 | | NO | NO | |
| 21:13:00 | 21:14:00 | 0:09:42 | | 0:01:00 | | NO | NO | |
| 21:20:47 | 21:21:43 | 0:07:47 | | 0:00:56 | | NO | NO | |
| 21:28:31 | 21:29:35 | 0:07:44 | | 0:01:04 | | NO | NO | |
| 21:36:41 | 21:37:39 | 0:08:10 | 0:08:38 | 0:00:58 | 0:01:04 | NO | NO | |
| | | TOO DARK TO RECORD JET DATA | | | | | YES | YES |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

JULY 27, 1998

Time of Jet Geyser eruption(duration of eruption in seconds) >time period between eruptions in minutes and seconds

09:58:51 Jet (59s)
18:32:10 Jet (61s) >8m03s
18:41:27 Jet (61s) >9m17s
18:49:09 Jet (61s) >7m42s
10:10:33 Jet (64s) >11m42s
10:19:28 Jet (62s) >8m55s
10:29:21 Jet (68s) >9m53s
10:40:14 Jet (66s) >10m53s
10:50:20 Jet (65s) >10m06s
11:00:00 Jet (73s) >9m40s
11:08:24 Jet (53s) >8m24s
11:15:57 Jet (65s) >7m33s
11:25:00 Jet (72s) >9m03s
11:35:57 Jet (60s) >10m57s
~~~~~Sizzler on  
~~~~~Sizzler off  
11:54:29 Jet (67s) >28m32s
12:00:23 Jet (?) >5m54s
12:07:31 Jet (65s) >7m08s
12:15:43 Jet (61s) >8m12s
12:23:09 Jet (64s) >7m26s
~~~~~Fountain on  
12:31:27 Jet (62s) >8m18s  
12:35:50 Jet (37s) >4m23s  
12:39:05 Jet (36s) >3m15s  
12:42:09 Jet (?) >3m04s  
12:45:08 Jet (25s) >2m59s  
12:47:58 Jet (33s) >2m50s  
12:50:50 Jet (29s) >2m52s  
12:53:30 Jet (25s) >2m40s  
12:56:11 Jet (29s) >2m41s  
12:58:47 Jet (?) >2m36s  
13:01:26 Jet (34s) >2m39s  
13:04:06 Jet (43s) >2m40s  
~~~~~Fountain off  
13:06:44 Jet (30s) >2m38s
13:18:02 Jet (46s) >11m18s

XXXX LEFT AREA XXXX

18:24:07 Jet (57s)
18:32:10 Jet (61s) >8m03s
18:41:27 Jet (61s) >9m17s
18:49:09 Jet (61s) >7m42s
18:56:42 Jet (65s) >7m33s
19:06:42 Jet (61s) >10m00s
19:17:17 Jet (64s) >10m35s
19:25:20 Jet (68s) >8m03s
~~~~~Sizzler on  
~~~~~Sizzler off  
19:45:16 Jet (86s) >19m56s
19:52:25 Jet (64s) >7m09s
19:55:45 Jet (65s) >3m20s
20:07:07 Jet (67s) >11m22s
20:14:49 Jet (60s) >7m42s
20:23:11 Jet (60s) >8m22s
20:32:36 Jet (60s) >9m15s
20:45:44 Jet (66s) >13m08s
20:53:47 Jet (64s) >8m03s
21:03:18 Jet (64s) >9m31s
21:13:00 Jet (60s) >9m42s
21:20:47 Jet (56s) >7m47s
21:28:31 Jet (64s) >7m44s
21:36:41 Jet (58s) >8m10s
~~~~~Fountain on  
~~~~~Sizzler on  
~~~~~Sizzler off  
~~~~~Fountain off  
TOO DARK TO RECORD JET
ERUPTIONS

XXXX LEFT AREA XXXX

JULY 27, 1998

09:22 Flood (ie)

09:57 Spasm on, Clepsydra on, Sizzler off, but recently on, Twig off, Fountain pool
at 12''

09:58:51 Jet (59s)

09:59 Old Cone Geyser (ie)

10:04 Sub

10:08 Kaleidoscope

10:10:33 Jet (64s)

10:14 Sub

10:16 Kaleidoscope's Indicator

10:19:28 Jet (62s)

10:28 Sub

10:29:21 Jet (68s) Very energetic eruption

10:33 Twig sputted

10:39 Kaleidoscope's Indicator

10:40:14 Jet (66s)

10:44 Twig on

10:50:20 Jet (65s)

11:00:00 Jet (73s)

11:02 Kaleidoscope's Indicator

11:03 Sub

11:08:24 Jet (53s)

11:10 Sub

11:15:57 Jet (65s)

11:23 Kaleidoscope

11:25:00 Jet (72s)

11:28:08 Fountain began its surge, then stopped

11:34 Kaleidoscope's Indicator

11:35:57 Jet (60s)

11:39:02 Sizzler on

11:40 Sub

11:53:17 Sizzler off (d=14m)

11:54:29 Jet (67s)

11:58 Kaleidoscope's Indicator

12:00:23 Jet (?)

12:07:31 Jet (65s)

12:15:43 Jet (61s)

12:23:09 Jet (64s)

12:30:11 Fountain surge began

12:30:28 Fountain on ***** (pool at 12'' from top)*****

12:31:27 Jet (62s)

12:35:50 Jet (37s)

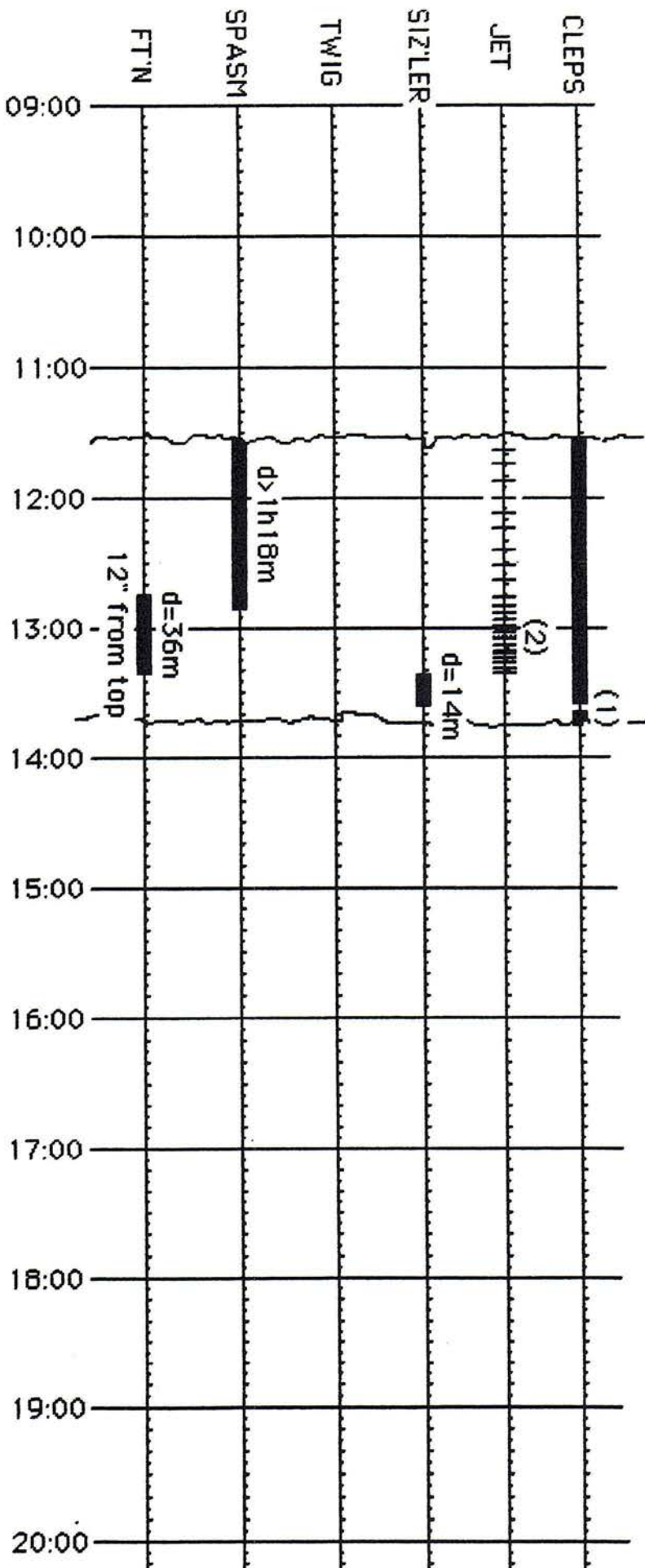
12:37 Spasm flooded
12:39:05 Jet (36s)
12:42:09 Jet (?)
12:42 Kaleidoscope
12:45:08 Jet (25s)
12:47:58 Jet (33s)
12:48 ~100' burst from Fountain!
12:50:50 Jet (29s)
12:53:30 Jet (25s)
12:56:11 Jet (29s)
12:58:47 Jet (?)
13:01:26 Jet (34s)
13:04:06 Jet (43s)
13:06:20 Fountain off -----(d=36m)-----
13:06:44 Jet (30s)
13:18:02 Jet (46s)
13:19 Twig off
13:19 Kaleidoscope's Indicator
13:20:38 Clepsydra paused (14m after Fountain ended)
13:23:13 Clepsydra resumed
13:24 LEFT AREA

13:43 Flood (ie)
15:25 Grotto (ie)
16:25 Grand (one burst) following huge rain/hail storm that dumped 1.4" of rain on area in one hour according to Sam Holbrook - parking lot by Lower Ham's was flooded - we sat through it at Grand huddled under umbrellas and got soaked!

18:24:07 Jet (57s)
18:24 Spasm on and overflowing, Clepsydra on, Twig off, Sizzler off, Fountain pool at 13"
18:25 2nd Tree Geyser
18:27 Twig sputted
18:32:10 Jet (61s)
18:36 Old Cone Geyser on (ie)
18:38 Sub
18:41:27 Jet (61s)
18:49:09 Jet (61s)
18:56:42 Jet (65s)
19:04:55 Kaleidoscope
19:06:42 Jet (61s)
19:17:17 Jet (64s)
19:20 Kaleidoscope's Indicator
19:21 Fountain's pool still at 12-13" - steamy evening - hard to see pool level

19:25:20 Jet (68s)
19:29:34 Sizzler on
19:44 Sizzler off (d=15m)
19:45:16 Jet (86s)
19:48 2nd Tree Geyser
19:52:25 Jet (64s)
19:54:23 Kaleidoscope's Indicator
19:55:45 Jet (65s)
20:07:07 Jet (67s)
20:14:49 Jet (67s)
20:17 Kaleidoscope
20:17 Spasm drained totally
20:23:11 Jet (60s)
20:32:36 Jet (66s)
20:45 Sub
20:45:44 Jet (66s)
20:53:47 Jet (64s)
21:03:18 Jet (64s)
21:13:00 Jet (60s)
21:20:47 Jet (56s)
21:28:31 Jet (64s)
21:36:41 Jet (58s)
21:40 Spasm pool began to fill
21:45 Fountain on ***** (pool at 12" from top) *****
22:08 Sizzler on TOO DARK TO RECORD ANYTHING
22:21 Fountain off -----(d=36m)-----
22:25 LEFT AREA

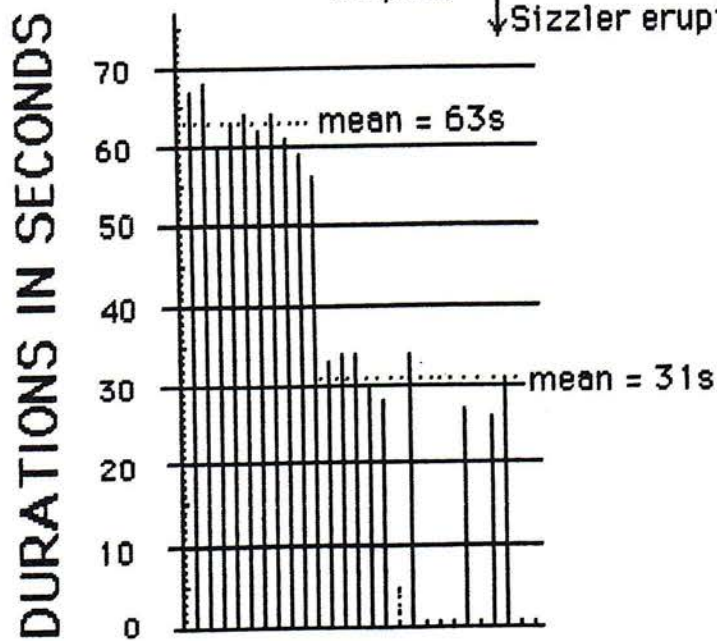
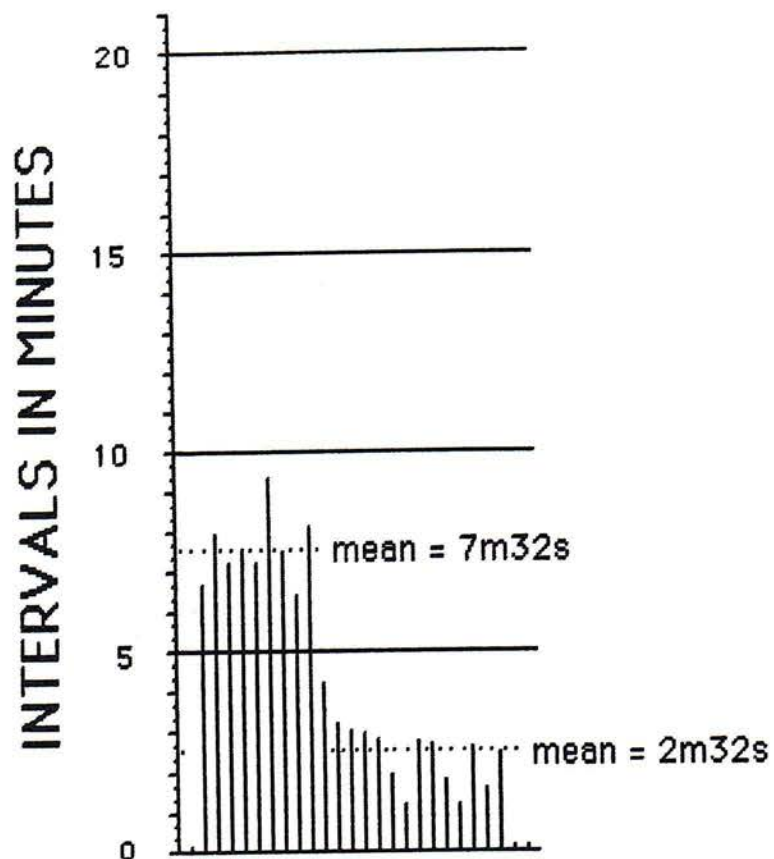
JULY 28, 1998



(1) Clepsydra paused 15m after Fountain stopped erupting for 3m.

(2) Jet began erupting with short intervals and durations as Fountain erupted.

CONSECUTIVE JET GEYSER INTERVALS AND DURATIONS JULY 28, 1998



1

**JET GEYSER DATA
LOWER GEYSER BASIN
YELLOWSTONE NATIONAL PARK
JULY 28, 1998**

| START TIME | END TIME | INTERVAL IN H:M:S | INTERVAL MEANS | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING |
|------------|----------|-------------------|----------------|-------------------|----------------|-----------------------|----------------------|
| 11:38:07 | 11:39:14 | | | 0:01:07 | | NO | NO |
| 11:44:47 | 11:45:55 | 0:06:40 | | 0:01:08 | | NO | NO |
| 11:52:43 | 11:53:43 | 0:07:56 | | 0:01:00 | | NO | NO |
| 12:00:00 | 12:01:03 | 0:07:17 | | 0:01:03 | | NO | NO |
| 12:07:37 | 12:08:41 | 0:07:37 | | 0:01:04 | | NO | NO |
| 12:14:52 | 12:15:54 | 0:07:15 | | 0:01:02 | | NO | NO |
| 12:24:12 | 12:25:16 | 0:09:20 | | 0:01:04 | | NO | NO |
| 12:31:45 | 12:32:46 | 0:07:33 | | 0:01:01 | | NO | NO |
| 12:38:22 | 12:39:21 | 0:06:37 | | 0:00:59 | | NO | NO |
| 12:46:30 | 12:47:26 | * 0:08:08 | 0:07:32 | * 0:00:56 | 0:01:03 | YES | NO |
| 12:50:43 | 12:51:16 | 0:04:13 | | 0:00:33 | | YES | NO |
| 12:53:54 | 12:54:28 | 0:03:11 | | 0:00:34 | | YES | NO |
| 12:56:56 | 12:57:30 | 0:03:02 | | 0:00:34 | | YES | NO |
| 12:59:54 | 13:00:24 | 0:02:58 | | 0:00:30 | | YES | NO |
| 13:02:42 | 13:03:10 | 0:02:48 | | 0:00:28 | | YES | NO |
| 13:04:37 | SHORT | 0:01:55 | | * ##### | | YES | NO |
| 13:05:48 | 13:06:22 | 0:01:11 | | 0:00:34 | | YES | NO |
| 13:08:32 | | 0:02:44 | | * ##### | | YES | NO |
| 13:11:12 | | 0:02:40 | | * ##### | | YES | NO |
| 13:12:49 | | 0:01:37 | | * ##### | | YES | NO |
| 13:14:13 | 13:14:40 | 0:01:24 | | 0:00:27 | | YES | NO |
| 13:16:49 | | 0:02:36 | | * ##### | | YES | NO |
| 13:19:30 | 13:19:56 | 0:02:41 | | 0:00:26 | | YES | NO |
| 13:21:59 | 13:22:30 | * 0:02:29 | 0:02:32 | * 0:00:31 | 0:00:31 | NO | NO |
| | | | | | | NO | YES |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

JULY 28, 1998

Time of Jet Geyser eruption(duration of eruption in seconds) >time period between eruptions in minutes and seconds

11:38:07 Jet (67s)
11:44:47 Jet (68s) >6m40s
11:52:43 Jet (60s) >7m56s
12:00:00 Jet (63s) >7m17s
12:07:37 Jet (64s) >7m37s
12:14:52 Jet (62s) >7m15s
12:24:12 Jet (64s) >9m20s
12:31:45 Jet (61s) >7m33s
12:38:22 Jet (59s) >6m37s

~~~~~Fountain on

12:46:30 Jet (56s) >8m08s  
12:50:43 Jet (33s) >4m13s  
12:53:54 Jet (34s) >3m11s  
12:56:56 Jet (34s) >3m02s  
12:59:54 Jet (30s) >2m58s  
13:02:42 Jet (28s) >2m48s  
13:04:37 Jet (one blast) >1m55s  
13:05:48 Jet (34s) >1m11s  
13:08:32 Jet (?) >2m44s  
13:11:12 Jet (?) >2m40s  
13:12:59 Jet (?) >1m47s  
13:14:13 Jet (27s) >1m14s  
13:16:49 Jet (?) >2m36s  
13:19:30 Jet (26s) >1m41s

~~~~~Fountain off

13:21:59 Jet (31s) >2m29s

~~~~~Sizzler on

~~~~~Sizzler off

XXXX LEFT AREA XXXX

JULY 28, 1998

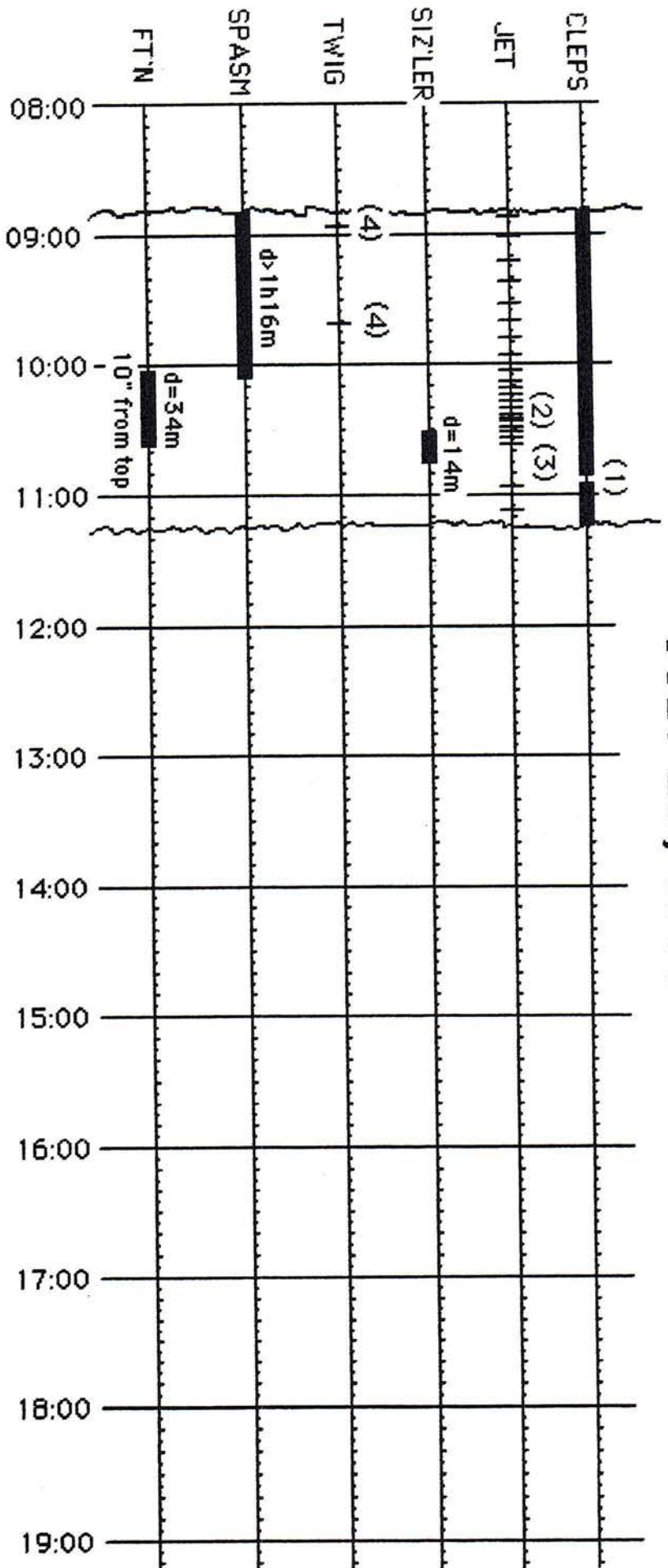
10:31 Flood
10:42 Flood (d=10m)

11:33 Spasm on, Jelly full, Clepsydra on, Twig off, Sizzler recently off, Fountain pool at 12''
11:38:07 Jet (67s)
11:44:47 Jet (68s)
11:46 Sub
11:52:43 Jet (60s)
11:54 Kaleidoscope's Indicator
12:00:00 Jet (63s)
12:07:37 Jet (64s)
12:10 Fountain pool still at 12''
12:11 Kaleidoscope
12:14:52 Jet (62s)
12:24:12 Jet (64s)
12:26 Kaleidoscope's Indicator
12:31:45 Jet (61s)
12:38:22 Jet (59s)
12:44:49 Fountain surge began
12:45:17 Fountain on ***** (pool at 12'' from top)*****
12:46:30 Jet (56s)
12:50:43 Jet (33s)
12:51 Spasm flooded
12:51 Kaleidoscope's Indicator
12:53:54 Jet (34s)
12:56:56 Jet (34s)
12:59:54 Jet (30s)
13:02:42 Jet (28s)
13:04:37 Jet (one blast)
13:05:48 Jet (34s)
13:08:32 Jet (?)
13:11:12 Jet (?)
13:12:59 Jet (?)
13:13 Kaleidoscope
13:14:13 Jet (27s)
13:14 Kaleidoscope
13:16:49 Jet (?)
13:18 Bear Claw
13:19:30 Jet (26s)
13:21 Fountain off -----(d=36m)-----
13:21:59 Jet (31s)
13:22 Sizzler on

13:36 Sizzler off (d=14m)
13:36 Clepsydra paused (15m after Fountain ended)
13:39:50 Clepsydra resumed

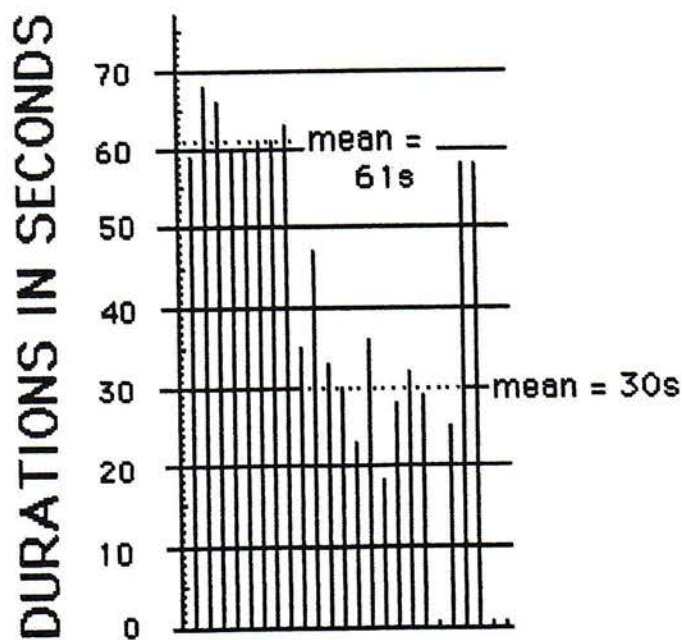
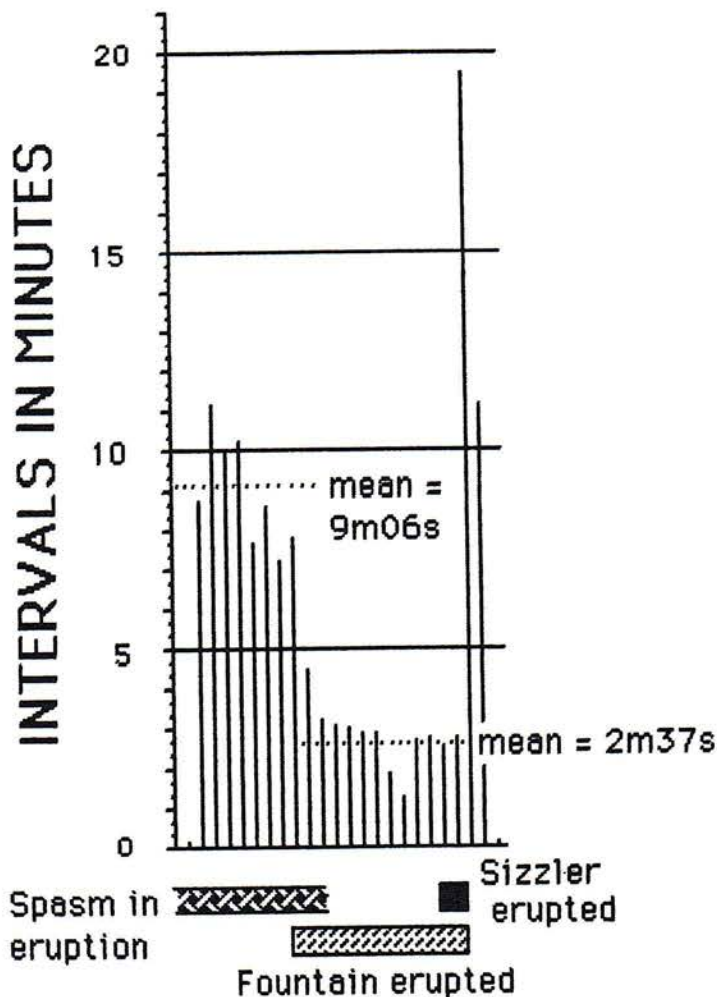
20:23 Beehive (ie)

JULY 29, 1998



- (1) Clepsydra paused 15m after Fountain stopped erupting for 3m.
- (2) Jet began to erupt in short intervals and durations as Fountain began to erupt.
- (3) Sizzler erupted 6m before Fountain stopped and continued to erupt for 8m after Fountain stopped. This seemed to stop Jet's series of eruptions for about 11m. Jet then resumed its series of eruptions in its normal mode.

CONSECUTIVE JET GEYSER INTERVALS AND DURATIONS JULY 29, 1998



1

JET GEYSER DATA LOWER GEYSER BASIN YELLOWSTONE NATIONAL PARK JULY 29, 1998

| START TIME | END TIME | INTERVAL IN H:M:S | INTERVAL MEANS | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING |
|------------|----------|-------------------|----------------|-------------------|----------------|-----------------------|----------------------|
| 8:52:25 | 8:53:24 | | | 0:00:59 | | | |
| 9:01:11 | 9:02:09 | 0:08:46 | | 0:00:58 | | NO | NO |
| 9:12:21 | 9:13:27 | 0:11:10 | | 0:01:06 | | NO | NO |
| 9:22:23 | 9:23:23 | 0:10:02 | | 0:01:00 | | NO | NO |
| 9:32:34 | 9:33:34 | 0:10:11 | | 0:01:00 | | NO | NO |
| 9:40:16 | 9:41:17 | 0:07:42 | | 0:01:01 | | NO | NO |
| 9:48:52 | 9:49:53 | 0:08:36 | | 0:01:01 | | NO | NO |
| 9:56:06 | 9:57:09 | 0:07:14 | | 0:01:03 | | NO | NO |
| 10:08:22 | 10:08:57 | * 0:12:16 | 0:09:06 | * 0:00:35 | 0:01:01 | YES | NO |
| 10:11:33 | 10:12:20 | 0:03:11 | | 0:00:47 | | YES | NO |
| 10:14:36 | 10:15:09 | 0:03:03 | | 0:00:33 | | YES | NO |
| 10:17:35 | 10:18:05 | 0:02:59 | | 0:00:30 | | YES | NO |
| 10:20:27 | 10:20:50 | 0:02:52 | | 0:00:23 | | YES | NO |
| 10:23:21 | 10:23:57 | 0:02:54 | | 0:00:36 | | YES | NO |
| 10:25:15 | 10:25:33 | 0:01:54 | | 0:00:18 | | YES | NO |
| 10:26:27 | 10:26:55 | 0:01:12 | | 0:00:28 | | YES | NO |
| 10:29:07 | 10:29:39 | 0:02:40 | | 0:00:32 | | YES | NO |
| 10:31:51 | 10:32:20 | 0:02:44 | | 0:00:29 | | YES | NO |
| 10:34:23 | | 0:02:32 | | * ##### | | YES | YES |
| 10:37:08 | 10:37:33 | 0:02:45 | | 0:00:25 | | YES | YES |
| 10:56:35 | 10:57:33 | * 0:19:27 | 0:02:37 | * 0:00:58 | 0:00:30 | NO | NO |
| 11:07:42 | 11:08:40 | 0:11:07 | | 0:00:58 | | NO | NO |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

JULY 29, 1998

Time of Jet Geyser eruption(duration of eruption in seconds) >time period between eruptions in minutes and seconds

08:52:25 Jet (59s)

09:01:11 Jet (68s) >8m46s

09:12:21 Jet (66s) >11m10s

09:22:23 Jet (60s) >10m02s

09:32:34 Jet (60s) >10m11s

09:40:16 Jet (61s) >7m42s

09:48:52 Jet (61s) >8m36s

09:56:06 Jet (63s) >7m14s

~~~~~Fountain on

10:03:55 Jet (58s) >7m49s

10:08:22 Jet (35s) >4m27s

10:11:33 Jet (47s) >3m11s

10:14:36 Jet (33s) >3m03s

10:17:35 Jet (30s) >2m59s

10:20:27 Jet (23s) >2m52s

10:23:21 Jet (36s) >2m54s

10:25:15 Jet (18s) >1m54s

10:26:27 Jet (28s) >1m12s

10:29:07 Jet (32s) >2m40s

10:31:51 Jet (29s) >2m44s

~~~~~Sizzler on

10:34:23 Jet (?) >2m32s

10:37:08 Jet (25s) >2m45s

~~~~~Fountain off

~~~~~Sizzler off

10:56:35 Jet (58s) >19m27s

11:07:42 Jet (58s) >11m07s

XXXX LEFT AREA XXXX

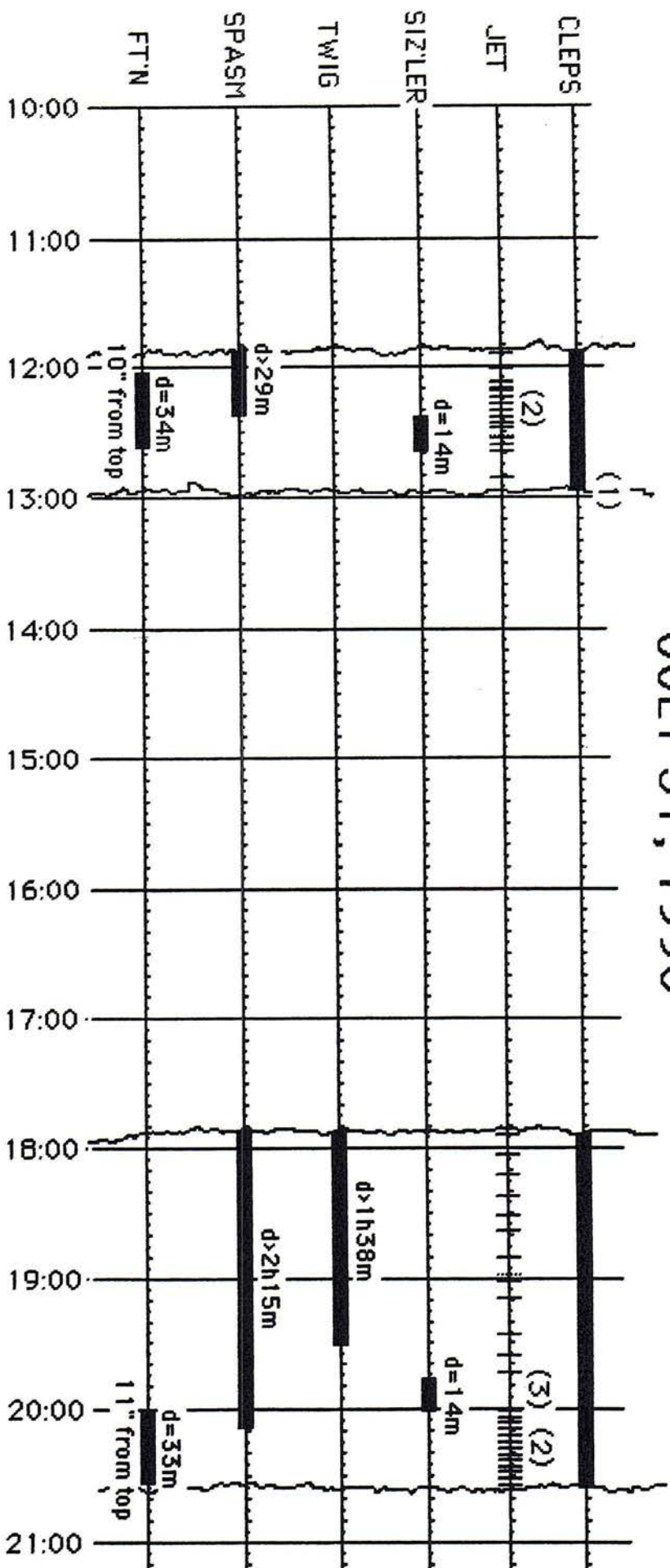
JULY 29, 1998

08:50 Clepsydra on, Spasm on, Jelly pool filled, Twig off, Sizzler off, Fountain pool at 12", Sizzler runoff wet
08:52:25 Jet (59s)
08:56 Twig spudded
08:56 Bear Claw spudded
09:01:11 Jet (68s)
09:02 Fountain pool up to 10" and holding
09:09 Kaleidoscope's Indicator
09:12:21 Jet (66s)
09:15 Something to the left of Kaleidoscope
09:18 Firehose
09:22:23 Jet (60s)
09:26 Fountain pool holding at 10"
09:32:34 Jet (60s)
09:40:16 Jet (61s)
09:41 Twig spudded
09:45 Bear Claw
09:48:52 Jet (61s)
09:52 Spasm still on
09:56:06 Jet (63s)
09:56 Kaleidoscope's Indicator
10:02 Fountain surge began
10:03:14 Fountain on ***** (pool at 10" from top) *****
10:03:55 Jet (58s)
10:06 Spasm pool flooded
10:08:22 Jet (35s)
10:11:33 Jet (47s)
10:14:36 Jet (33s)
10:17:35 Jet (30s)
10:20:27 Jet (23s)
10:23:21 Jet (36s)
10:24 Kaleidoscope
10:25:15 Jet (18s)
10:26:27 Jet (28s)
10:29:07 Jet (32s)
10:31:51 Jet (29s)
10:31:51 Sizzler on
10:34:23 Jet (?)
10:37:08 Jet (25s)
10:37:40 Fountain off -----(d=34m)-----
10:45 Sizzler off (d=14m)
10:50 2nd Tree Geyser

10:52:57 Clepsydra paused (15m after Fountain ended)
10:55:17 Clepsydra resumed
10:56:35 Jet (58s)
10:58 Spasm empty, Jelly was full
11:07:42 Jet (58s)
11:09 Kaleidoscope's Indicator
11:12 Angle ?
11:12 2nd Tree Geyser
11:15 LEFT AREA

12:52 Beehive

JULY 31, 1998

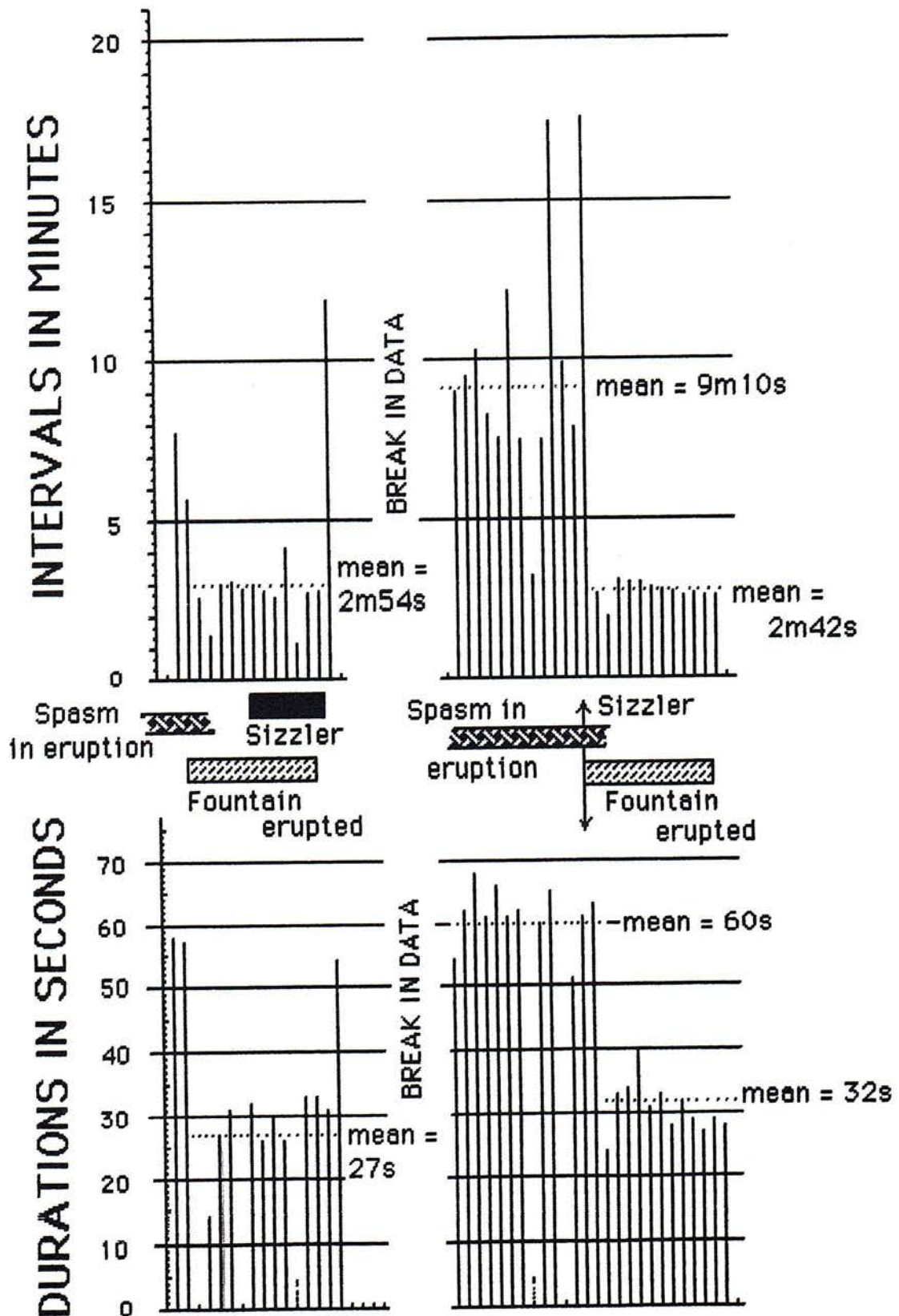


(1) No observed pauses for Clepsydra all day.

(2) Jet erupted in its fast mode as Fountain erupted.

(3) Jet stopped erupting in its series as Sizzler erupted without Fountain.

CONSECUTIVE JET GEYSER INTERVALS AND DURATIONS JULY 31, 1998



1

JET GEYSER DATA LOWER GEYSER BASIN YELLOWSTONE NATIONAL PARK JULY 31, 1998

| START TIME | END TIME | INTERVAL IN H:M:S | INTERVAL MEANS | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING | |
|------------|----------|-------------------|----------------|-------------------|----------------|-----------------------|----------------------|-----|
| 11:54:05 | 11:55:03 | | | * | 0:00:58 | NO | NO | |
| 12:01:49 | 12:02:46 | * | 0:07:44 | * | 0:00:57 | NO | NO | |
| 12:07:29 | | | 0:05:40 | * | ##### | YES | NO | |
| 12:10:01 | 12:10:15 | | 0:02:32 | | 0:00:14 | YES | NO | |
| 12:11:38 | 12:12:05 | | 0:01:37 | | 0:00:27 | YES | NO | |
| 12:14:38 | 12:15:09 | | 0:03:00 | | 0:00:31 | YES | NO | |
| 12:17:41 | | | 0:03:03 | * | ##### | YES | NO | |
| 12:20:28 | 12:21:00 | | 0:02:47 | | 0:00:32 | YES | NO | |
| 12:23:23 | 12:23:49 | | 0:02:55 | | 0:00:26 | YES | YES | |
| 12:26:07 | 12:26:37 | | 0:02:44 | | 0:00:30 | YES | YES | |
| 12:28:39 | 12:29:05 | | 0:02:32 | | 0:00:26 | YES | YES | |
| 12:32:48 | SHORT | | 0:04:09 | * | ##### | YES | YES | |
| 12:35:55 | 12:34:28 | | 0:03:07 | * | ##### | YES | YES | |
| 12:36:37 | 12:37:10 | | 0:00:42 | | 0:00:33 | YES | YES | |
| 12:39:21 | 12:39:52 | * | 0:02:44 | 0:02:54 | * 0:00:31 | 0:00:27 | NO | YES |
| 12:51:15 | 12:52:09 | * | 0:11:54 | | * 0:00:54 | | NO | NO |
| LEFT AREA | | | | | | | | |
| 17:54:18 | 17:55:04 | | | | 0:00:46 | NO | NO | |
| 18:03:12 | 18:04:14 | | 0:08:54 | | 0:01:02 | NO | NO | |
| 18:12:40 | 18:13:48 | | 0:09:28 | | 0:01:08 | NO | NO | |
| 18:22:57 | 18:23:58 | | 0:10:17 | | 0:01:01 | NO | NO | |
| 18:31:15 | 18:32:21 | | 0:08:18 | | 0:01:06 | NO | NO | |
| 18:38:46 | 18:39:47 | | 0:07:31 | | 0:01:01 | NO | NO | |
| 18:50:54 | 18:51:56 | | 0:12:08 | | 0:01:02 | NO | NO | |
| 18:58:22 | SHORT | | 0:07:28 | * | ##### | NO | NO | |
| 19:01:35 | 19:02:35 | | 0:03:13 | | 0:01:00 | NO | NO | |
| 19:09:05 | 19:10:10 | | 0:07:30 | | 0:01:05 | NO | NO | |
| 19:26:34 | | | 0:17:29 | * | ##### | NO | NO | |
| 19:36:30 | 19:37:21 | | 0:09:56 | | 0:00:51 | NO | NO | |
| 19:44:22 | 19:45:23 | | 0:07:52 | | 0:01:01 | NO | NO | |
| 20:04:34 | 20:04:58 | * | 0:20:12 | 0:09:10 | * 0:00:24 | 0:01:00 | YES | YES |
| 20:06:31 | 20:07:04 | | 0:01:57 | | 0:00:33 | YES | NO | |
| 20:09:37 | 20:10:11 | | 0:03:06 | | 0:00:34 | YES | NO | |
| 20:12:37 | 20:13:17 | | 0:03:00 | | 0:00:40 | YES | NO | |
| 20:15:36 | 20:16:07 | | 0:02:59 | | 0:00:31 | YES | NO | |
| 20:18:23 | 20:18:56 | | 0:02:47 | | 0:00:33 | YES | NO | |
| 20:21:07 | 20:21:35 | | 0:02:44 | | 0:00:28 | YES | NO | |
| 20:23:47 | 20:24:19 | | 0:02:40 | | 0:00:32 | YES | NO | |
| 20:26:21 | 20:26:50 | | 0:02:34 | | 0:00:29 | YES | NO | |
| 20:28:59 | 20:29:26 | | 0:02:38 | | 0:00:27 | YES | NO | |
| 20:31:30 | 20:31:59 | | 0:02:31 | | 0:00:29 | YES | NO | |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

**JET GEYSER DATA
LOWER GEYSER BASIN
YELLOWSTONE NATIONAL PARK
JULY 31, 1998**

| START TIME | END TIME | | INTERVAL IN H:M:S | INTERVAL MEANS | | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING |
|------------|----------|---|-------------------|----------------|---|-------------------|----------------|-----------------------|----------------------|
| 20:34:04 | 20:34:32 | * | 0:02:34 | 0:02:42 | * | 0:00:28 | 0:00:32 | NO | NO |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

JULY 31, 1998

Time of Jet Geyser eruption(duration of eruption in seconds) >time period between eruptions in minutes and seconds

11:54:05 Jet (58s)

12:01:49 Jet (57s) >7m44s

~~~~~Fountain on

12:07:29 Jet (?) >5m40s

12:10:01 Jet (14s) >2m32s

12:11:38 Jet (27s) >1m37s

12:14:38 Jet (31s) >3m00s

12:17:41 Jet (?) >3m03s

12:20:26 Jet (32s) >2m47s

~~~~~Sizzler on

12:23:23 Jet (26s) >2m55s

12:26:07 Jet (30s) >2m44s

12:28:39 Jet (26s) >2m32s

12:32:48 Jet (one burst) >4m09s

12:33:55 Jet (33s) >1m07s

12:36:37 Jet (33s) >2m42s

~~~~~Fountain off

12:39:21 Jet (31s) >2m44s

~~~~~Sizzler off

12:51:15 Jet (54s) >11m54s

XXXX LEFT AREA XXXX

17:54:10 Jet (54s)

18:03:12 Jet (62s) >9m02s

18:12:40 Jet (68s) >9m28s

18:22:57 Jet (61s) >10m17s

18:31:15 Jet (66s) >8m18s

18:38:46 Jet (61s) >7m31s

18:50:54 Jet (62s) >12m08s

18:58:22 Jet (one splash) >7m28s

19:01:35 Jet (60s) >3m13s

19:09:05 Jet (65s) >7m30s

19:26:34 Jet (?) >17m29s

19:36:30 Jet (51s) >9m56s

19:44:22 Jet (61s) >7m52s

~~~~~Sizzler on

~~~~~Fountain on

~~~~~Sizzler off

20:01:59 Jet (63s) >17m37s

20:04:34 Jet (24s) >2m35s

20:06:31 Jet (33s) >1m57s

20:09:37 Jet (34s) >3m06s

20:12:37 Jet (40s) >3m00s

20:15:36 Jet (31s) >2m59s

20:18:23 Jet (33s) >2m47s

20:21:07 Jet (28s) >2m44s

20:23:47 Jet (32s) >2m40s

20:26:21 Jet (29s) >2m34s

20:28:59 Jet (27s) >2m38s

20:31:30 Jet (29s) >2m31s

~~~~~Fountain off

20:34:04 Jet (28s) >2m34s

XXXX LEFT AREA XXXX

JULY 31, 1998

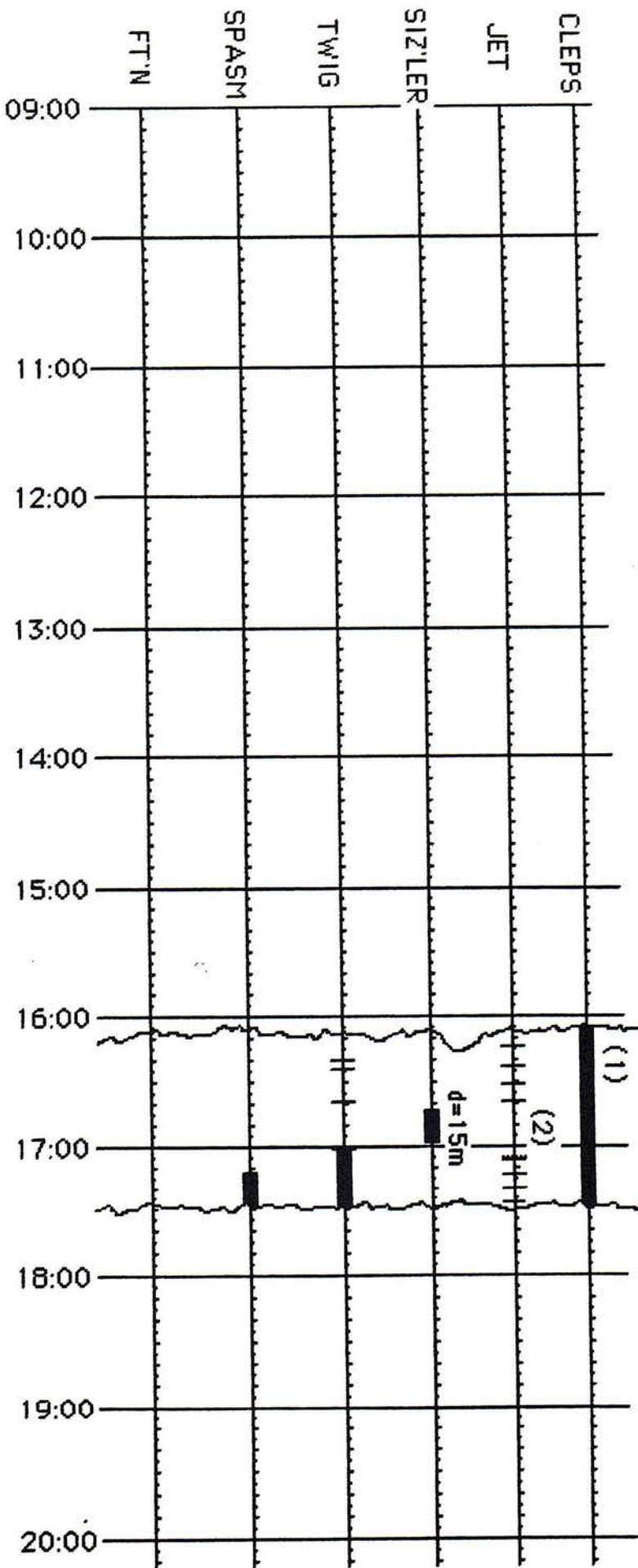
11:53 Spasm on, Clepsydra on, Sizzler off, Fountain pool at 10", Twig off, Jelly pool full
11:53 Kaleidoscope
11:54:05 Jet (58s)
12:01:49 Jet (57s)
12:03:11 Fountain surge began
12:03:58 Fountain on ***** (pool at 10" from top)*****
12:07:29 Jet (?)
12:10:01 Jet (14s)
12:11:38 Jet (27s)
12:14:38 Jet (31s)
12:15 Bear Claw
12:17:41 Jet (?)
12:20:28 Jet (32s)
12:22 Spasm flooded
12:23 Sizzler on
12:23:23 Jet (26s)
12:26:07 Jet (30s)
12:28:39 Jet (26s)
12:32:48 Jet (one burst)
12:33:55 Jet (33s)
12:36:37 Jet (33s)
12:37:32 Fountain off -----(d=34m)-----
12:39:21 Jet (31s)
12:39:39 Sizzler off (d=14m)
12:42 Kaleidoscope's Indicator
12:51:15 Jet (54s)
12:57 LEFT AREA - no Clepsydra pause

13:44 Sawmill (ie)
13:44 Tardy (ie)
14:10 Daisy (ie)
14:33 Grotto (ie)
15:10 Oblong (ie)
15:37 Grand (one burst)
16:09 Castle
16:59 Beehive (ie) from Lower Ham's

17:53 Clepsydra on, Spasm on, Jelly pool overflowing, Twig on, Fountain pool at 12", Sizzler off, but recently on
17:54:10 Jet (54s)
17:54 2nd Tree Geyser
18:03:12 Jet (62s)

18:12:40 Jet (68s)
 18:22:57 Jet (61s)
 18:31:15 Jet (66s)
 18:33 Fountain pool up to 11"
 18:38:46 Jet (61s)
 18:45 Kaleidoscope's Indicator
 18:50:54 Jet (62s)
 18:58:22 Jet (one splash)
 19:01:35 Jet (60s) HIGH WIND, SOME RAIN
 19:09:05 Jet (65s)
 19:26:34 Jet (?)
 19:31 Twig off
 19:36:30 Jet (51s)
 19:42 Spasm was boiling gently
 19:44:22 Jet (61s)
 19:47:30 Sizzler on
 19:59:40 Surge in Fountain pool
 20:00:08 Fountain on ***** (pool at 11" from top) *****
 20:01 Sizzler off (d=14m)
 20:01:59 Jet (63s)
 20:04 Kaleidoscope's Indicator
 20:04:34 Jet (24s)
 20:06:31 Jet (33s)
 20:08 Spasm flooded
 20:09:37 Jet (34s)
 20:12:37 Jet (40s)
 20:15:36 Jet (31s)
 20:18:23 Jet (33s)
 20:21:07 Jet (28s)
 20:23:47 Jet (32s)
 20:26:21 Jet (29s)
 20:28:59 Jet (27s)
 20:31:30 Jet (29s)
 20:33:47 Fountain off -----(d=33m)-----
 20:34:04 Jet (28s)
 20:35 LEFT AREA

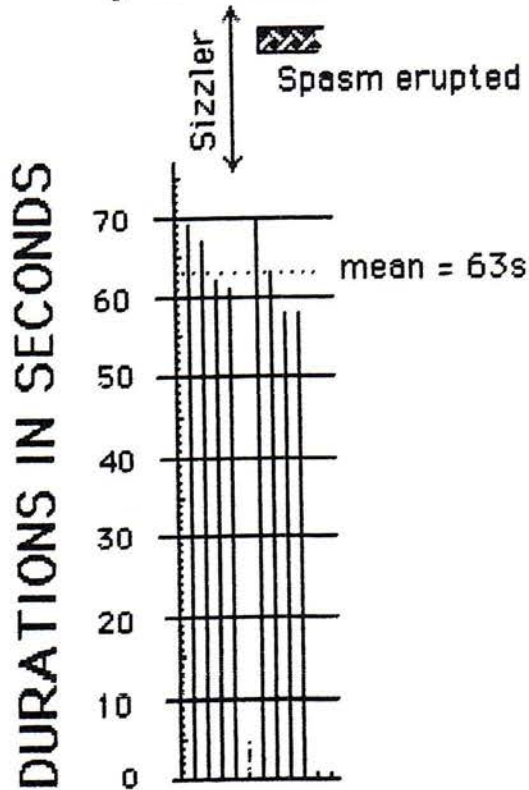
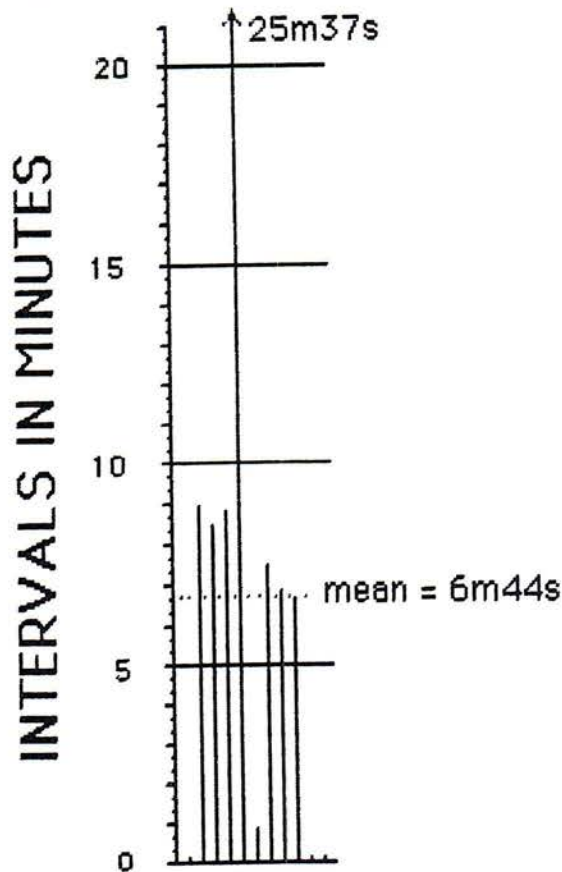
AUGUST 1, 1998



(1) No Clepsydra pauses observed

(2) Jet stopped its series of eruptions as Sizzler erupted without Fountain erupting

CONSECUTIVE JET GEYSER INTERVALS AND DURATIONS AUGUST 1, 1998



1

**JET GEYSER DATA
LOWER GEYSER BASIN
YELLOWSTONE NATIONAL PARK
AUGUST 1, 1998**

| START TIME | END TIME | INTERVAL IN H:M:S | INTERVAL MEANS | DURATION IN H:M:S | DURATION MEANS | WAS FOUNTAIN ERUPTING | WAS SIZZLER ERUPTING |
|------------|----------|-------------------|----------------|-------------------|----------------|-----------------------|----------------------|
| 16:14:44 | 16:15:53 | | | 0:01:09 | | NO | NO |
| 16:23:42 | 16:24:49 | 0:08:58 | | 0:01:07 | | NO | NO |
| 16:31:10 | 16:32:12 | 0:07:28 | | 0:01:02 | | NO | NO |
| 16:39:57 | 16:40:58 | 0:08:47 | | 0:01:01 | | NO | NO |
| 17:05:34 | SHORT * | 0:25:37 | | * ##### | | NO | YES |
| 17:06:27 | 17:07:37 | 0:00:53 | | 0:01:10 | | NO | NO |
| 17:13:54 | 17:14:57 | 0:07:27 | | 0:01:03 | | NO | NO |
| 17:20:45 | 17:21:43 | 0:06:51 | | 0:00:58 | | NO | NO |
| 17:27:27 | 17:28:25 | 0:06:42 | | 0:00:58 | | NO | NO |
| | | | 0:06:44 | | 0:01:03 | | |

BLANK INDICATES MISSED DATA
INDICATES IMPOSSIBLE CALCULATION
* DATA NOT INCLUDED IN MEAN CALCULATIONS

AUGUST 1, 1998

Time of Jet Geyser eruption(duration of eruption in seconds) >time period between eruptions in minutes and seconds

16:14:44 Jet (69s)

16:23:42 Jet (67s) >8m58s

16:31:10 Jet (62s) >8m28s

16:39:57 Jet (61s) >8m47s

~~~~~Sizzler on

~~~~~Sizzler off

17:05:34 Jet (one burst) >25m37s

17:06:27 Jet (70s) >0m53s

17:13:54 Jet (63s) >7m27s

17:20:45 Jet (58s) >6m51s

17:27:27 Jet (58s) >6m42s

XXXX LEFT AREA XXXX

XXXX LEFT THE PARK XXXX

AUGUST 1, 1998

16:10 Spasm empty, Clepsydra on, Jelly pool half-full, Sizzler off, Twig off, Fountain pool at 12", Firehose on
16:14:44 Jet (69s)
16:20 Twig spouted
16:23:42 Jet (67s)
16:28 Bear Claw
16:24 Twig spouted
16:31:10 Jet (62s)
16:39 Twig spouted
16:39:57 Jet (61s)
16:43 Sizzler on
16:54 2nd Tree Geyser
16:56 Spasm began to fill, then emptied
16:58 Sizzler off (d=15m)
17:01 Twig spouted
17:02 Twig on
17:05:34 Jet (one burst)
17:06:27 Jet (70s)
17:08 Spasm filled again
17:12 Spasm on
17:13:54 Jet (63s)
17:20 Spasm's two pools became one
17:20:45 Jet (58s)
17:27:27 Jet (58s)
17:28 LEFT AREA - to Roosevelt for ribs - RAIN, COLD

END OF 1998 TRIP

