

USGS CMG FAC ERATION LOG
ACTIVITY

EQUIPMENT CODE	ID	START DAY	START HOUR	START MINUTE	START COMMENT	END DAY	END HOUR	END MINUTE	END COMMENT	DEPTH (METERS)
	C	3/13/13	09:07 10:00		PACIFIC TIME 13GFPOL-test01		09	15	Mtn. standard time (or Pacific)	
			09:00 09:53	53	13GFPOL-test02					
			11	36	13GFPOL01					
			12	03	slow speed chirp drop					
			12	12	F speed chirp ↑		12	19		
			12	21	13GFPOL02		13	02		
			13	24	set 13GFPOL03				Layback (6m) established	
			13	47	pick up speed					
			13	49	slow speed		13	59		
	GFPOL04		14	01	2.8-zog powder R.		14	07	hit bottom -	
	GFPOL05		14	07	"		14	55		
	-06		14	58	"		15	48		
	-07		15	54	"		16	12		
	-08		16	25	Brownice thalweg at powder		16	48	may have lost 20 min (17:10)	
	-09	+1	09	04	"				chirp ~ 12m below surface	
			09	21	engine quit - restart					
			10	03.33	core site #6		10	08	Sturgill Creek	
	-10		10	14						
			10	22	Spire - almost hit		10	44		
	-11		10	44	set layback to 8500		11	33		
	-12		11	39	Brownice cut s. se powder		12	57		
	-13		12	51	"		13	01		

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	SPR01-14		13	07	west side brownlee ^{Sturgill} - Powder		13	51	generator died	
	-15		14	14	continuing w/line		14	17		
	-16		14	17	↑ layback to 20k cm		14	46		
	-17		15	16	Sturgill to coming site 6.17 upstream					
			16	16	core site #7		16	17		
	-18		16	20	zig-zag upstream		17	21		
	EFF01A	12	08	59	@ Brownlee ck. - thalweg					
			08	20	core site #1					
			08	23	increase speed					
			08	27	core site #2					
			08	34	pick up speed					
			08	48	core site # (below Brownlee creek)		09	30		
	-20		09	31	continue BR. thalweg		10			
			10	25	CH ₂ M Hill core site		10	26		
	-21		10	26	continue thalweg line		10	35		
	-22				tie line from brownlee reservoir upstream					
			12	40	slow down		13	28		
	-23		13	28						
			13	54	change speed		14	19		
	-24		15	13						
			16	00	change speed		17	00		
	-25		17	01	cont. brownlee upstream west side		17	31		

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	6-AP01-26	73	08	25	Core site 6 - core site 7 String to unnamed canyon creek east side downstream			09:22	Next start point ex if core fails is positive (see photo)	
	26-71		09	22	west side above				This line is combined w/ line 26	
			10	09	pick up speed					
	21		10	08	continue west side canyon creek to Bennett creek adjusted keyboard from 20K to 5K			10 59	core site 7 - core site 8 10:49 outcrop change	
	-29		10	59	continue line			11 24		
	-30		11	29	heading downstream, Baldy					
			11	42	core site CH2					
			11	43	core site 8 below canyon creek					
			12	44	core site CH2			12 45		
	-31		12	45	east side upstream			13 57	NO NAV! Need Hyrack file 001B1247	
03/17/13	-32		10	06	Tie line Canyon Creek to Bennett Creek core site 7 - core site 8			10 42	4-24, 10ms, AWR-100 (correctly) prog range 4.0, TUG 22, bar 15.	
	-33	76	10	44	Continuing Tie line 29 204	76		11 39	"	
	-34	76	11	41	Bennett cr. → Trial cr.			12 27	"	
	-35	76	12	28	" → Fox cr.	76		12 39	"	
	-36	76	12	43	Fox Cr. → Bennett heading N Thelweg	76		12 56		
					12:56 - Dropped pwr to 85%, also lowered gain to 10					
			13	18	Checked out core location (12:18 computer time 13:18 MST)					
	-37	76	13	22	Fox Cr. → Bennett cr. Thelweg cont.			≈ 13 38		
	-38	76	14	00	Bennett → Fox west line			14 28		

Need to
run an
Sigsbee
894

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03/17/13 cont.	-39 38	76	14	29	Cont. Bennett → Fox West line	76	14	50	* increased gain to 12 @ new mark	
c	ANNA					*	Loat	GPS	ended line soon after	
c	-40	76	14	50	Cont. Bennett → Fox West line	76	15	10		
c	-41	76	15	52	Fox → Bay Horse Rapid about 1/2 way through		16	09		
c	-42	76	16	10	Cont. Fox → BHR West line					
c	-43	76	16	23	BHR → Fox East line					
c	-44	76	16	49	BHR → Fox East Cont.		17	20		
	-45		17	21	Fox → Bennett East line		17	52		
	-46		17	53	Fox → Bennett East Cont.		18	17	End of Day	
03/18/3	136fpo1	4.0	24.0	24.0	24.0 KHz : 10.ms	fm 10 25.37 SR 437 :	Gain 10.2 TWR 30			
	-47	77	9	33	Comp Time BHR - Fox Tie line					
	-48	77	10	06	BHR - Fox Tie line cont.					
	-49	77	10	34	BHR - Fox Tie line cont.					
	-50				Fox - BHR Thruway				GPS WASNT ON	
	50 50,001		10	54	"					
136fpo1	-51		11	33	Fox - BHR - (LTHAL)				lowered chip	
	-52		12	07	Fox - BHR Thruway cont.					
					below rock creek - deep cut from				CH 2 C ≈ 12.16	
	-53	77	12	25/13	25 min BHR - Burnt River Thruway					
					Raised chip - Getting shallow on edges				chip hanging ≈ 4.5m	
	-54	77	13	21/14	25 min BHR - Burnt River Thruway cont.				Below Garmin Ducer	
	ANNA				Stopped logging - GPS issues					

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136FP01	-55	77	13	40 (14:40)						
	-56	77	14	26 (15:26 MDT)	4.24 kHz, 10ms, 4 Hz, PAWR - 100, 6-10 Hz					
	-57	77	14	35 (15:26 MDT)	Burnt → BHR Tie line heading N					
					15:18 (16:18) going over coring area Thalweg					
	-58	77	15	39 (16:39 MDT)	Tried changing around settings (again) No real success					
03/19/13	136FP01				Chip Survey - Brownslee Res.				16:32 (17:32 MDT) END OF DAY	
	-59	78	07	43	BHR → Burnt East line heading South					
	-60	78	08	06 (09:06 MDT)	BHR → Burnt East line - South				Rock creek continues w/ deep canyon	
					NOISY Depth coming in issues - intermittent				↪ seems to be resolved	
	-61	78	08	30 (9:30 MDT)	BHR - Burnt East - South					
	-62	78	09	04 (10:04 MDT)	BHR - Burnt East (cont.)				Short line to send back to St. Pete	
	-63	78	09	48 (10:48 MDT)	"		78	10:08		
	-64	78	10	08 (11:08 MDT)	Burnt → BHR WEST - North			10:19		
*	-65	78	10	19 (11:18 MDT)	"				Sample line to send to St. Pete	
	-66	78	10	21 (11:21 MDT)	"		NOI	10:59		
	-67	78	11	00 (12:00 MDT)	"			11:42	Finished lower section of Brownslee -	
	-68	78	12	35 (13:35 MDT)	Powder River North line - upstream			10:52	Heading to Powder River	
	-69	78	13	15 (14:15 MDT)	"				Done with Powder River upstream	
	-70	78	13	53 (14:53 MDT)	Powder River				downstream - GPS was off	
	-71	"	13	54 (14:54 MDT)	"			"	"	
				14:17	Mark 59 over core CHZ on powder river					

USGS CMG FACS GENERATION LOG
ACTIVITY

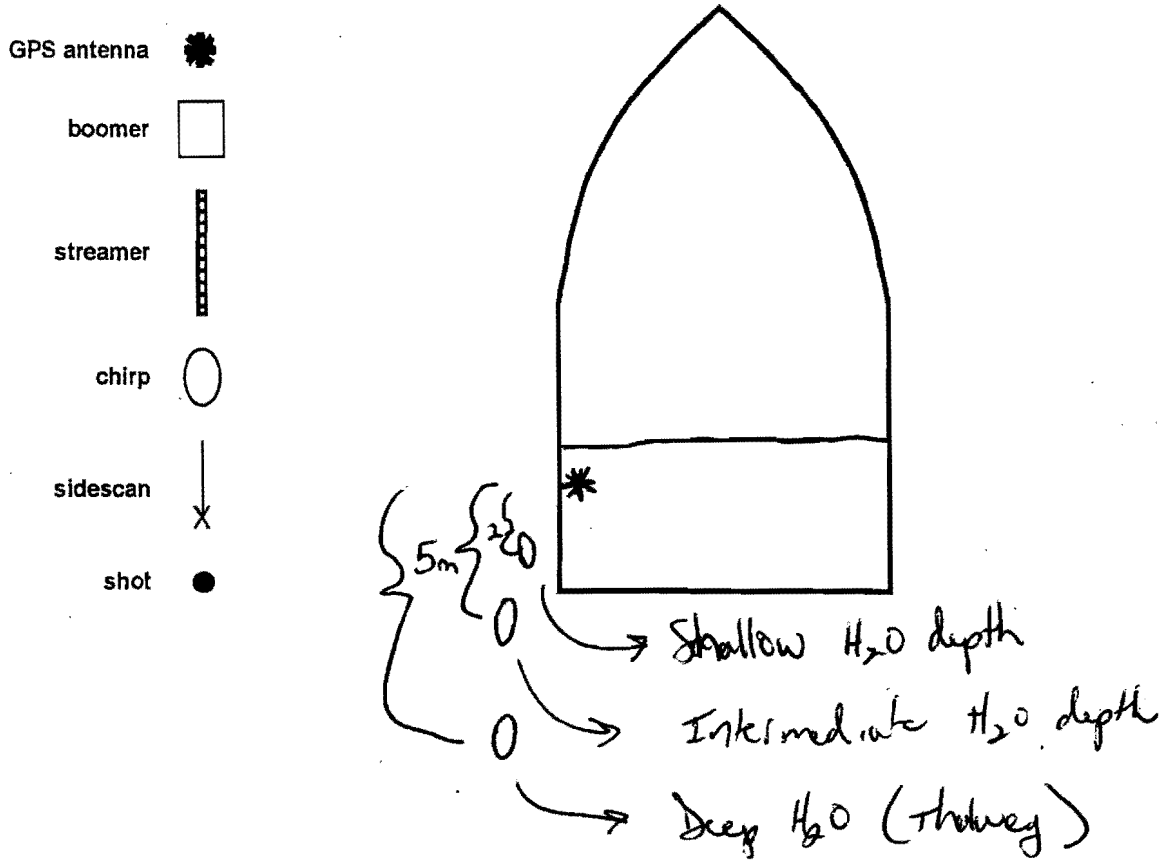
EQUIPMENT CODE	ID	START DAY	START HOUR	START MINUTE	START COMMENT	END DAY	END HOUR	END MINUTE	END COMMENT	DEPTH (METERS)
03/19/13	136FF01	-72	78	15 04 (16:04 mbr)	Powder River downstream (South Side?)	15	17	(16:17 mbr)	Finished Powder River	
		-73	78	15 29 (16:29 mbr)	Powder River → Dam East (downstream)					
		-74	78	16 02 (17:02 mbr)	Powder → Dam East (Down)					
		-75	78	16 29 (17:29 mbr)	"					
		-76	78	16 52 (17:52 mbr)	"	78	17	40	End of Brunler Survey	End of Day
03/20/13		Beginning			Hells Canyon Reservoir					
	136FF01	-77	79	08 51 (9:51 mbr)	Inside the buoy				Shore Pops	
		-78	79	08 57	"					
		-79	79	08 59	"					
		-80	79	09 01	"					
		-81	79	09 02	"			09 04 crossing "X"		
		-82	79	09 05	"			inside Buoy line		
		-83	79	09 18	HCR Thruway 2478 - 2528				UPSTREAM	
		-84	79	09 46 (10:46 am mbr)	"					
		-85	79	10 16 (11:16 mbr)	"					
PB		-86	79	10 45 (11:45 mbr)	"					
		-87	79	11 16 (12:16 mbr)	End of 12:04				hookback of Fish is 16 seconds @ 4.00 knots	
		-88	79	12 49 (13:49 mbr)	HCR East - Downstream				- Issue w/ depth - restart of ~32 meters.	
		-89	79	13 16 (14:16 mbr)	HCR - East side - downstream					
		-90	79	13 57 (14:57 mbr)	"					

USGS CMG FACS OPERATOR LOG
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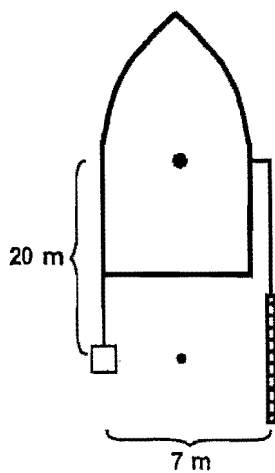
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136FPO1	-91	79	14	32 (15:32 mst)	HCR, East Bank, downstream cont.	79	15	10		
	-92	79	15	11 (16:11 mst)	"	79	15	46		
	-93	79	15	47 (16:47 mst)	HCR, West Bank upstream	79	16	15	last depth in X	
	-94	79	16	21 (17:21 mst)	"	79	16	23	last depth again - same spot!	
	-95	79	16	31 (17:31 mst)	"	79	17	07		
	-96	79	17	07 (18:07 mst)	"				4-24 kHz, 10ms PWC 100, Ping Rate 4.0, Gain 10, TUG 3Z	
							17	48	ENDED THE DAY - Need to finish line	
03/21/13	-97	80	07	18 (08:18 mst)	Finishing West line on HCR (upstream)		07	58 (08:58 mst)	Finished HCR West line	
	-98	80	08	05 (09:05 mst)	HCR Tie line downstream					
	-99	80	08	44 (09:44 mst)	"		09	26 (10:26 mst)		
	-100	80	09	26 (10:26 mst)	"		10	07		
	-101	80	10	07 (11:07 mst)	"		10	32	END OF SURVEY	
	102	80	11	40 (12:40 mst)	Holbrook Cr. → Kerrs Rapids					
	103	80	11	50	Kerr → Holbrook upstream		11	49 (12:49 mst)	"Ryan's Ripples"	

136FPO1

FILL OUT THE DIAGRAM TO SHOW ACQUISITION GEOMETRY. INCLUDE GPS-TO-SHOT DISTANCE, SLED-TO-SHOT DISTANCE, AND STREAMER-TO-SHOT DISTANCE.



BOOMER EXAMPLE



CHIRP EXAMPLE

