Hearn VERASHAGEN Lake Baikal
VRSH 90-1
July 23-31, 1990

SEISMIC LOG

900225ei

104755

Seismic Lab Log 9002281

record PyBrk
ch1 = Sig HD
2 = Clock HD
norm 1 = E.G.&G.

U.S.G.S.

INTEGRATED NAVIGATION SYSTEM

AND

NORTHSTAR LORAN-C NAVIGATION LOG

SHIP Veratagen VRSH 90-1

CRUISE NO. Lake Baikal 90-1

DATE 7-24-90 (July 23-31, 1990)

CHIEF SCIENTIST Paul Henkart

Seismic Lab Log. 01A

YR	MO	DAY	GMT TIME	LINE #	SHIPS COURSE	SHIPS SPD	FIX TIME	NAVIGATION GPS LATITUDE ± DEGREES ± MINUTES	NAVIGATION GPS LONGITUDE ± DEGREES ± MINUTES	TYPE	QUAL.
90	07	24	2238	001	037°	7.3	2234	052 20.32	106 02 50	N	
90	07	23	2300		039°	7.2		052 21 53.3	106 04 33.3	E	
90	07	24	1200	continued 001			2345	052 24 23	106 07 01	N	
90	07	24	2358					052 29 28	106 17 50	E	
90	07	24	3000	001	055°	8.5kn		052 30 13	106 20 09		
End VHS Tape*					1 = 13.39						
90	07	25	1400	001	070°	8.9kn		052 32 13	106 26 20		
			1430		057°	7.9		052 33 25	106 29 18		
			1500		065°	8.4		052 34 33	106 32 04		
			1530		057°	7.6		052 35 51	106 35 21		
			1600		062°	8.1		052 37 07	106 38 21		
			1630		059°	7.8		052 38 14	106 41 11		
			1700		062°	8.1		052 39 16	106 44 01		
			1730		058°	9.8		052 40 35	106 48 06		
			1800		063°	9.1		052 41 36	106 51 48		
			1830		070°	8.3		052 42 31	106 55 05		
			1900		058°	8.9		052 43 52	106 59 15		
			1930		045°	8.5		052 45 36	107 01 56		
			2000		044°	8.3		052 46 42	107 04 19		
			2030		049°	7.8		052 48 42	107 06 18		
			2100		057°	8.1		052 50 05	107 08 47		
			2130		053°	8.1		052 51 35	107 11 40		
			2200		056°	8.6		052 52 58	107 14 42		
			2230		056°	8.7		052 54 28	107 18 04		
			2300		054°	9.2		052 55 46	107 21 01		
			2330		058°	9.2		052 57 08	107 24 26		
			2400		053°	9.5		052 58 48	107 27 48		
Restart Line			0745					052 59 1.6	107 28 28		
			0830		053°	7.9		053 01 17	107 32 45		
			0930		053°	7.9		053 04 48	107 34 45		

YR	MO	DAY	UT TIME	LINE #	SHIPS COURSE	SHIPS SPD	FIX TIME	NAVIGATION GPS LATITUDE ± DEGREES	LATITUDE MINUTES	LONGITUDE ± DEGREES	LONGITUDE MINUTES	TYPE	QUAL.
90	07	25	1000	001	046	8.0		053	0523	107	4049		
Line 2		25	1030		046	8.3		053	0703	107	4258		
			1100		044	9.0		053	0846	107	4521		
			1130		044	8.7		053	1028	107	4743		
			1200		061	9.0		053	1200	107	5055		
			1230		062	9.5		053	1313	107	5420		
			1300		056	9.8		053	1441	107	5748		
			1330		053			053	1544	107	5831		
			1401					053	1728	108	0424		
			1430					053	1817	108	0627		
			1500		064	8.3		053	1926	108	0910		
			1530		051	8.6		053	2046	108	1159		
			1600		050	8.4		053	2226	108	1443		
Line 1			1630		052	9.1		053	2402	108	1900		
DogLeg 1 & 2			1700		050	8.6		053	2532	108	2020		
			1730		047	8.5		053	2721	108	2310		
			1800		019	9.3		053	2853	108	2547		
DogLeg 2			1830		015	9.4		053	3132	108	2637		
Line 3			1900		297	9.5		053	3321	108	2423		
			1930		295	9.9		053	3421	108	2014		
			2000		293	8.5		053	3514	108	1645		
			2030		306	9.1		053	3614	108	1815		
			2100		307	8.0		053	3738	108	1024		
			2130		313	8.3		053	3916	108	0730		
			2200		306	7.8		053	4020	108	0422		
			2230		296	8.0		053	4116	108	0057		
			2300		299	8.0		053	4211	107	5730		
EOL #3			2350					053	4429	107	5235		

TAPE #	START / END	COMMENTS AND OBSERVATIONS
		Changing Scale on 3.5kHz TO ½ Sec. Sweep Program mode.
VHS 9		– 13:11:00 Change TO 1 Sec. Sweep from ½ Sec. Sweep.
		End VHS 9 13:50:00
		13:32 Change TO ½ sec Sweep on EPC.
		Program 1500m - 1875m
10		START VHS 10 13:50:00.
		End VHS 10 16:14:00
		Having Problems with Ships speed VS. SCALE. Slowed to check it! Changed scale BACK to 1 Sec. Sweep.
11		START VHS 11 16:14:00
		End VHS 11 18:19 33
		17:59:00 · 694 m
12		1st START VHS 12 18:19:33 End Line 1
		End VHS 12 20:25:00 START Line 2
Water		18:45 ~~0 : 730 m~~ Lic 3 starts @ 1900
		RELIEVE WATCH 19:30 - Wrong Scale on Recorder
13		START VHS 13 20:40:00 Line 3
		2130 GMT - 18½ m ERROR on Scaling.
14		FINI TAPE 13 22:38:00 LINE 3
		START TAPE 14 22:38:10 LINE 3 (CONTD)
*		Hunter Test in 200 to 400m depth. 1 Sec fire 1 sec Sweep. ~~Tape Count~~ Time.
TAPE 14		0053 / 7-26-90. - See NEXT page.

360

Multi-Channel Line 9

3A

YR	MO	DAY	GMT TIME	LINE #	SHIPS COURSE	SHIPS SPD	FIX TIME	NAVIGATION - GPS LATITUDE ± DEGREES	LATITUDE ± MINUTES	LONGITUDE ± DEGREES	LONGITUDE ± MINUTES	TYPE	QUAL.
90	07	26	1500	004	213	4.5		+53	1632	-108	3115		
			1530	4	318	9.9		53	1750	-108	2913		
			1600	4	323	9.6		53	1437	108	2617		
			1630	4	327	8.9		53	2125	108	2328		
			1700	4	326	9.1		53	2314	108	2053		
			1730	4	327	8.8		53	2512	108	1822		
			1800	4	334	8.4		53	2708	108	1604		
			1830	4	327	8.4		53	2858	108	1341		
			1900	4	334	7.1		53	3046	108	1146		
			1930	4	322	7.7		53	3210	108	0957		
			2000	4	317	7.6		53	3354	108	0652		
			2030	4	314	7.6		53	3520	108	0410		
			2100	4	312	8.2		53	3643	108	0122		
			2131	4	320	8.4		53	3823	108	5818		
			2200	4	315	8.8		53	3950	107	5532		

TAPE #	START / END	COMMENTS AND OBSERVATIONS
14		No End Time Noted
15		Seismic Line 4 is Old Multi-Channel Line 9. Running 3.5kHz - START Line 4. Recording Left (A) Channel @ .5 sec SCAN, (B) Channel Right Side 1 Sec SCAN.
*		15:47:00 Only 1 sec SCAN on EPC. 1/2 sec disabled on ch. 2 Just Monitor of 1/2 sec. sig.
15 →		
16		End Tape 15 @ 17:11:00
		START Tape 16 17:12:00
16		End Tape @ 19:13:28
17		START Tape 17 19:13:49
17*		End Tape 17 21:15:30
18		START Tape 18 21:15:55
		EOL #4 (MCS9) @ 22:57:00

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD (kn)	NAVIGATION FIX • TIME	LATITUDE ± DEGREES	LATITUDE MINUTES	LONGITUDE ± DEGREES	LONGITUDE MINUTES	TYPE	QUAL.
90	07	27	1441	005	054	6.3	PASS 1	55°	32.27''	109	44.37		
			1527		276		PASS 2						
			1530		273	6.0		55°	29.21''	109	47.10		
			1615	VENT	CROSS		PASS 3	55	29.	109	44.35		
			1630		032	9.1		55	31.53	109	46.54		
			1700		193	8.6	PASS 4	55	31.03	109	47.29		
			2113	VENT	STOP.			55°	30.59'	109°	46.12''		

14:31:42

MAROJAMA

TAPE #	START / END	COMMENTS AND OBSERVATIONS	PAGE 43
19		7-27-90 SoL #5 North - Thermal Vent Area.	
	→	START TAPE #19 @ 14:41:00	
		End TAPE 19 @ 16:44:00	
20		START TAPE #20 @ 16:44:30	
		End TAPE 20 @ 18:45:00	
21		START TAPE 21 @ 18:45:30	
		End TAPE 21 C 20:48:00	
22		START TAPE 22C 20:48:24	
		STOP TAPE 22 21:23:46.	

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YR	MO	DAY	GMT TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	LATITUDE ± DEGREES	LATITUDE ± MINUTES	LONGITUDE ± DEGREES	LONGITUDE ± MINUTES	TYPE	QUAL.
90	07	28	2045		620	8.3	2047	+055	01.34	109	17.20		
			2100		620	7.6		+035	00.27	109	16.31		
			2130		620	9.1		+054	58.66	109	14.52		
			2203		621	7.8		+054	56.03	109	13.35		
			2230		620	8.3		+054	54.07	109	12.05		
			2300		622	8.9		+054	51.50	109	10.97		

TAPE #	START	END	COMMENTS AND OBSERVATIONS
? 22			Running Line 6. Northern Basin - E. Side. Course 209°.
? 22			START Tape 22 @ 207° - 20:45 GMT
? 22			End Tape 22 @ 22:50
23			START Tape 23 22:51

YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	NAVIGATION FIX TIME	LATITUDE ± DEGREES	LATITUDE ± MINUTES	LONGITUDE ± DEGREES	LONGITUDE ± MINUTES	TYPE	QUAL.
90	07	30	0448	007	123	11.5		+052	28.20	-105	55.59		
			0500		708	9.8		052	28.08	-105	57.52		
			0530		711	9.4		052	27.14	-105	00.56		
			0600		712	8.9		052	25.25	-106	04.17		
			0630		711	7.8		052	24.52	-106	07.46		
			0700		711	8		052	23.43	-106	11.02		
			0730		711	8.2		052	22.33	106	14.54		
			EOL #7						.		.		
									.		.		
									.		.		
			BOL #8						.		.		
90	07	30	1200	008	219	8.0		+052	14.02	-105	55.29		
			1230		821	7.6.8		+052	12.21	-105	53.37		
			SAT DOWN						.		.		
			0400		822	4 9.0		+052	07.52	-105	48.02		
			0433		822	4 6.4		+052	06.19	-105	45.37		
			1500		823	0 7.0		+052	05.13	-105	43.28		
			1530		822	9 6.8		+052	04.06	-105	41.10		
			1600		823	1 6.9		+052	03.00	-105	39.14		
			1630		823	3 6.5		+052	01.41	-105	37.11		
			1700		822	9 6.2		+052	00.30	-105	35.22		
			1730		822	9 6.2		+051	59.22	-105	33.17		
			1800		824	0 5.7		+051	58.28	-105	31.11		
			1830		823	5 6.0		+051	57.36	-105	29.01		
			1900		822	7 6.3		+051	56.30	-105	26.53		
			1930		822	7 5.7		+051	55.19	-105	25.01		
			2000		822	8 7.1		+051	54.08	-105	22.49		
			2030		823	2 7.1		+051	52.51	-105	20.34		
			2100		824	5 7.4		+051	51.51	-105	18.05		
			2130		823	6 8.1		+051	51.30	-105	15.23		

TAPE #	START / END	COMMENTS AND OBSERVATIONS (PAGE ____)
24		Shooting Line 1 - SOL @ 04:48 - 3.5 kHz 128°.
		PWR output 5kw @ 3.5kHz.
24		End Tape # 24 @ 06:24
25		START Tape # 25 @ 06:24:30
25		End 25 07:33:30
		EOL @ 07:33 GMT - Core station
#		Next Tape = 26.
26		SOL #8 @ 12:01:30 Tape # 26
26		End 14:04:05
27		START 14:04:12 TAPE N27
		[illegible]
		[illegible]
27		End 16:07:19 TAPE 27
28		START 16:07:30 TAPE 28
28		End 18:12:00 TAPE 28
29		START 18:12:11 TAPE 29
29		End 20:12: Tape 29
30		START 20:13 End 30
30		End 22:14:20 End Tape 30
31		START 22:14:30 START Tape 31
		End 00:14:40 End Tape 31
32		START 00:14:55
		End 00:26:00
		End Survey Dakar 90-1

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YR	MO	DAY	TIME	LINE #	SHIPS COURSE	SHIPS SPD	FIX TIME	NAVIGATION LATITUDE ± DEGREES	LATITUDE ± MINUTES	LONGITUDE ± DEGREES	LONGITUDE ± MINUTES	TYPE	QUAL.
90	07	30	2200	008	247	7.6		+051	4922	-105	~~+1242~~ 1242		
			2230	8	247	7.3		+051	481.3	-105	1001		
			2300	8	235	7.6		+051	470.1	-105	0732		
			2330	8	230	7.8		+051	4530	-105	0510		
			2400	8	232	8.5		+051	4405	-105	0222		

EOL 8 @ 0025 7/31/90 - LAST good fix @ 2400

Line 1 1200 - 1745