MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 2 1 EQUIP. TYPE SUB-BOTTOM PROFILER PAGE 1 OF 19

LOCATOR D1 - 85 - AR (COL. 73-80) (ID. - YR. - AREA)

TOW DIST./DEPTH: SOURCE FISH RECEIVER FISH SHIP DISCOVERER

RECORDER TYPE/NO. EPC CHIEF SCIENTIST BARNES

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT *	MEDIA/SPEC. CODE 3 LETT'S	DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	253	2300		15		PAP	RL 35	* 1	X		X		SOL 15	026°	4.5	16.5	0-1/10 m					
	253	2353		15				1				X	EOL 15 pull gear	025°	4.5	21	0-1/10 m					
	254	0215		16				1			X		SOL 16 FISH IN WATER AT 0204	035	4.5	20.5	0-1/10					
	254	0248		16				1			X		CHANGED PAPER SPEED TO 16 LINES/CM									
	254	0526		16				1		X		X	system off/EOR 1	029	4.5	39						
	254	0550		16				2	X		X		SOR 2	029	4.5	45						
	254	0612	30	16				2					~~fish lowered~~ lowering fish	035	4.5	51.5						
	254	0618		16				2					sidescan lowered	035	4.5	53						
	254	0633		16								X	system off	035	4.5	56						
	254	0643		16				2			X		system on	035	4.5	57						
	254	0649		16				2					lowering sidescan	035	4.5	56						
	254	0651		16				2					sidescan lowered	035	4.5	56						
	254	0715		16				2				X	system off	035	5.0	64						
	254	0720		16				2			X		system on	035	5.0	67						
	254	0729		16				2				X	syst. off	025	5.0	71						
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG #1 EQUIP. TYPE Sub-bottom Profiler PAGE 2 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80)

TOW DIST./DEPTH: SOURCE FISH RECEIVER FISH SHIP Discoverer

RECORDER TYPE/NO. EPC CHIEF SCIENTIST Barnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE (3 LETT'S)	ARCHIVE NO. DATA/EQUIP. CODE (4 LETTERS)	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. (5 LET/NO.)	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH m	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	254	0752		16				2			X		syst. on	035	5.0	73	0 - 1/10 m					
				1		PAP	RL35	2			X		Time? Syst. on									
	254	1723		17		"	"	2				X	Sys off pull in fish	110	1.0	~185						
	254	1725		17		PAP	RL35	2					EOL 17	110°	~1.0	~195						
	255	0703		~~FRAN~~ 18							X		SOL 18 Sys. on	var	var	120						
	255	1230		18		"	"	2		X		X	EOR # 2	"	"	27.5	0-0.1 sec					
	255	1242		18		"	"	3	X		X		SOR # 3	115		27.5	"					
	255	1532		018		PAP	RL35	3				X	End of LINE 018	123	3.5	31	0-0.1"					
	256	0045		20		"	"	3			X		SOL 20 System on	354	4.0	188	0-0.2					
	256	0411		20		"	"	3					change scale	332	4.5	105	0-0.25					
	256	0715		20		"	"	3		X			EOL # 20 EOR3 sys off	040	4.5	165						
	256	1015		21							X		SOL 21	260	4.0	300±	1/4 - 1/2 sec	1/4	1/2	300	10K	EG&G BOX
	256	1225		21		"	"	4	X				system on SOR 4	265	4.0	147		"	"	"	"	"
	256	1235		21		"	"	4				X	system off for adj	"	"	"		"	"	"	"	"
	256	1255		21		"	"	4			X		system up	"	"			"	"	"	"	"
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE Sub-bottom Profiler PAGE 3 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80)

TOW DIST./DEPTH: SOURCE Fish RECEIVER Fish SHIP Disco

RECORDER TYPE/NO. EPC 1600S / #201 CHIEF SCIENTIST

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE OT	SPEED kts	WATER DEPTH m	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	256	1350		21		PAP	RL35	4				X	EQUIP. OFF/PULLED IN FISH	267	4	105.5	0-0.25	.25				
	256	2125		22		PAP	RL35	4			X		SOL 22 Fish in water - recorder on	105	4.5	48	0-0.25	.25				
	257	0113		22		"	"	4			X		RAISED FISH	167	4.8	43	0-0.25	.25				
	257	0130		22		"	"	4			X		RAISED FISH	251	3	39	"	"				
	257	0151		22		"	"	4					Raised Fishy	255	3	35	"	"				
	257	0222		22		"	"	4		X		[redacted]	EOR 4	250	3	32	"	"				
	257	0227		22		"	"	5	X		[redacted]		SOR 5	250	3	30	"	"				
	257	0245		22		"	"	5				X	SIDE SCAN PAPER change	250	3	30	"	"				
	257	0254		22		"	"	5			X		SIDE SCAN up	250	3	30	"	"				
	257	0414		22		"	"	5				X	system off	340	4.5	40	"	"				
	257	0423		22				5			X		system on	340	4.5	42	"	"				
	257	0524 [redacted]		22				5					fish lowered	340	4.5	51						
	257	0552 [redacted]		22				5					fish lowering	340	4.5	53						
	257	0557		22				5					fish lowered	340	4.5	53						
	257	0703		22				5				X	syst. off, EOL 22	340	4.5	58						
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE Sub-bottom Profiler PAGE 4 OF 19

LOCATOR D2 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80)

TOW DIST./DEPTH: SOURCE Fish RECEIVER Fish SHIP Discoverer

RECORDER TYPE/NO. EPC 160051 #201 CHIEF SCIENTIST Barnes / Phillips

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT *	MEDIA/ SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH m	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	257	0710		23		PAP	RL35	5			X		syst. on, ~~EO~~	018	4.5	58	0-0.25	.25				
	257	0843		23		PAR	RL35	5		X			E.O.R. 5	018	4.5	53	0-0.25	.25				
	257	0907		23		PAP	RL35	6	X				S.O.R. # 6	018	4.5	53	0-0.25	.25				
	257	0947		23		PAR	RL35	6				X	PAPER ROLL SLIPPING	025	4.5	54	0-0.25	.25				
	257	0949		23		PAP	RL35	6			X		RECORDER ON	025	4.5	54	0-0.25	.25				
	257	1108		23		PAP	RL35	6			X		set delay to 0.2 sec	025	4.5			"				
	257	1235		24		"	"	6			X		SET DELAY TO 0.0 SEC	~~250~~	5	65	"	"				
	257	1400		25		"	"	6				X	system off	202	4.5	53	"	"				
	258	1410		27		"	"	6		X		X	EOR 6	321	4.5	~~250~~ 54	"	"				
	258	1413		27		"	"	7	X		X		SOR 7	"	"	"	"	"				
	258	1745		27		"	"	7				X	Sys off, eol 27	300	3.7	122.5	"	"				
	260	0235		28		"	"	7			X		SOL 28; FISH IN WATER	125	4.5	25.5						
	260	0330		028		PAP	RL35	7				X	EOL 28									
	260	0440		029		PAP	RL35	7			X		SOL 29	124		30.5	0-.05	.05	165	La min		
	260	0446		029		PAP	RL35	7					Raised fish									
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 kHz Subbottom Profiler PAGE [redacted] 5 OF 19

LOCATOR D1 - 85 - AR (COL. 73-80) (ID. - YR. - AREA)

TOW DIST./DEPTH: SOURCE Fish RECEIVER Fish SHIP Discoverer

RECORDER TYPE/NO. EPC 1600S / #201 CHIEF SCIENTIST L. Phillips / P. Basnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE	ARCHIVE NO. DATA/EQUIP. CODE	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	260	04.57	.	029		PAP	RL35	7					Raised Fish				0-.05	.05	.05	165	1/2 in	
	260	05.19	.	029		PAP	RL35	7					Raised Fish									
	260	05.40	.	029		PAP	RL35	7		X			EOR 7				0-.05	.05	.05	165	1/2 in	
	260	05.48	.	029		PAP	RL35	8	X				SOR 8									
	260	06.00	.	029		PAP	RL35	8				X	EOL 29			16.75	0-.05	.05	.05	165	1/2 in	
	260	08.10	.	30		PAP	RL35	8			X		SOL 30			22.5	0-.05	.05	—	165	1/2 in	—
	260	11.12	.	30		PAP	RL35	8		X			E.O.R #8	310	4.5	39.5	0-.05	.05				
	260	11.15	.	30		PAP	RL35	9	X				S.O.R #9	310	4.5	40	0-.05	.05				
	260	12.10	.	30		"	"	9		[redacted]		X	OFF FOR SS PAPER CHANGE	275	"	43	"					
	260	12.14	.	30		"	"	9	[redacted]		X		BACK UP	"	"	43	"					
	260	14.40	.	30		"	"	9		[redacted]		X	OFF FOR SS PAPER CHANGE	"	"	40	"					
	260	14.47	.	30		"	"	9	[redacted]		X		BACK UP			40	"					
	260	16.00	.	30		"	"	9				X	EOL 30	255	5	40	"					
	261	03.00	.	31		"	"	9			X		SOL 31	215	4.4	42	0-0.1"	"	"	"		
	261	03.17	.	31		"	"	9					Change to 0.05" sweep	"	"	"	"	"	"	"	"	
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 kHz Subbottom Profiler PAGE 6 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE fish RECEIVER fish SHIP R/V Discoverer

RECORDER TYPE/NO. EPC 1600 S/#201 CHIEF SCIENTIST L. Phillips / P. Barnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	261	0337		031		PAP	RL35	9 ~~10~~		X		X	EOR 9	240	4.5	42	0-0.1"	.05	.05			
	261	0340		031		PAP	RL35	10	X		X		SOR 10	240	4.5	42	0-0.1*					
	261	0448		031		"	"	10					EOL 31	240	4.5	37.5	0-0.1					
	261	0448		032		"	"	10					SOL 32	276	4.5	37.5	0-0.1					
	261	0534	35	032		"	"	10				X	change roll in SSS	276	4.5	38	0-0.1					
	261	0548		032		"	"	10			X		sys. on	276	4.5	38	0-0.1					
	261	0557		032		"	"	10				X	sys of SSS "died"	276	4.5	38.5	0-0.1					
	261	0701		032				10			X		system on	276	4.5	39.5	0-0.1					
	261	0740		032				10					lowering fish, change sp	276	5.0	40	0-0.1					
	261	0748		032				10					fish lowered	276	5.0	41	0-0.1					
	261	1020		032				10		X			E.O.R 10	276	5.0	45.5	0-0.1					
	261	1024		032				11	X				S.O.R 11	276	5.0	45.5	0-0.1					
	261	1055		032				11				X	Change Roll in S.S.S	276	5.0	47.5	0-0.1					
	261	1101		032				11			X		Sys. on	276	5.0	47	0-0.1					
	261	1555		033		"	"	11		X			EOR 11	313	5.3	41.5	0-0.1					
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 kHz Sub-bottom Profiler PAGE 7 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80)

TOW DIST./DEPTH: SOURCE fish RECEIVER fish SHIP DISCOVERER

RECORDER TYPE/NO. EPC 1600S / #201 CHIEF SCIENTIST L. Phillips / P. Barnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. * 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH M	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	261	1600		33		PAP	RL35	12	X				SOR 12 TO EOL 33	313	5.3	41.5	0-0.1	.05	.05			
	~~261 1600~~			34		"	"	12					SOL 34	350	5.0	42	0-0.1	.05	.05			
	261	1822		34		"	"	12					raise fish	352	4.5	40.5	0-0.1					
	261	1936		34				12					lowered fish	348	4.5	45.5	0-0.1					
	261	1938		34				12		E		X	system off	348	4.5	45.5	0-0.1					
	261	1944	30	34				12			X		system on	348	4.5	45.5						
	261	2009		34				12				X	EOL ; STA 26		0							
	261	2230		35		PAP	RL35	12			X		STARTED (ON LINE 35)	348	4.5	44	0-0.1	.05	.05			
	~~261~~	~~2256~~		~~35~~		~~PAP~~	~~RL35~~															
	261	2311		35				12				X	OFF FOR STA 27									
	261	2311		35				12		X			EOR 12									
	262	0013		35		PAP	RL35	13	X		X		SOR 13	003	4.3	42						
	262	0415		35		"	"	13				X	Sys. off	003	4.5	43.5						
	262	0421		35		"	"	13			X		Sys. on	003	4.5	43.5						
	262	0552		35		"	"	13		X			Sys off ~~end roll 13~~	346	4.5	42.5	"	"	"			
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

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** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 kHz Subbottom Profiler PAGE 8 OF 19

TOW DIST./DEPTH: SOURCE fish RECEIVER fish SHIP KU Discoverer

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80) RECORDER TYPE/NO. EPC 1600 S / #201 CHIEF SCIENTIST L. Phillips / Barnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE 3 LETT'S	DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. * 5 LET/NO.	'X' IN ONE BOX ONLY S/E ROLL, REEL STRT	S/E ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH m	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	262	0557		035		PAP	RL35	14	X				SOR 14	346	4.5	42.5	0-0.1"					
	262	0608		035		PAP	RL35	14					change scale	346	4.5	43	0-~~0.00~~ 0.05					
	262	0619		035		PAP	RL35	14					change scale	346	4.5	43	0-0.1					
	262	1124		036		PAP	RL35	14		X			change paper end #14	149	5.0	41	0-0.1					
	262	1135	30	36		PAP	RL35	15	X				start roll 15	149	5.0	41	0-0.1					
	262	1705		37		"	"	15		X			sys. off eor 15	284	4.5	44	0-0.1					
	262	1711		37		"	"	16	X				sys on sor 16	284	4.5	44	0-0.1					
	262	1730		37		"	"	16				X	eor 29 on SSS, sys off	284	4.5	42.5	0-0.1					
	262	1733		37		"	"	16			X		sor 30 on SSS, sys on	284	4.5	42.5	0-0.1					
	262	1830		[redacted]	[redacted]	"	"	16				X	EOL 37 Sta 28	284	4.5	44	0-0.1					
	262	2000		38		PAP	RL35	16			X		SOL 38	279	4.5	45.5	0-0.1					
	262	2130				PAP	RL35	16				X	on STA. 29									
	262	2245		38		PAP	RL35	16			X		BACK on Line 38	286	4.5	46.5	0-0.1					
	263	0125		38		PAP	RL35	16		X		X	EOR 16	308	4.5	48.5	"					
	263	0131		38		"	"	17	X		X		SOR 17	320	4.5	48.5	"					
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 KHz SUB BOTTOM PROFILER PAGE 9 OF 19

LOCATOR DI (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE FISA RECEIVER FISA SHIP DISCOVERER

RECORDER TYPE/NO. EPC 1600S #201 CHIEF SCIENTIST Phillips/Barnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	263	0225		~~38~~ **	30	PAP	RL35	17 *				X	SYSTEM OFF FOR CORING STA. 30	220	4.5	49						
	263	0400		38		PAP	RL35	17			X		Cont. Line 38	255	4.0	49	0-.1	.1	.1			
	263	0458		38		"	"	17					lower fish	250	4.5	50	"	"	"			
	263	0657		38		"	"	17					raise fish	250	4.5	51	"	"	"			
	263	0700		38		"	"	17				X	~~EOL~~ eol 38 sta. 31 sys off	250	4.5	51	"	"	"			
	263	0724		~~38~~		"	"	17			X		sys on lowering fish	140	4.5	51	"	"	"			
	263	0725		39		"	"	17					sol 39	140	4.5	51	"	"	"			
	263	0740		39		"	"	17					lowering fish	140	4.5	51	"	"	"			
	263	0900		39		PAP	RL35	17		X			E.O.R 17	140	4.5	50.5	"	"	"			
	263	0905		39		PAP	RL35	18	X				S.O.R 18	140	4.5	50.5	0-.1	.1	.1			
	263	1014		40								X		225	4.5	50.						
	263	1018									X		resume opn.									
	263	1100										X	(fix sidescan hehices)									
	263	1131		40		PAP	RL35	18			X			225	4.5	50	0-.1	.1	.1			
	263	1243		40		"	"	18				X	fix side scan heley	250	4.4	49	0-.1	.1	.1			
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 kHz Subbottom Profiler PAGE 10 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE Fish RECEIVER Fish SHIP DISCO

RECORDER TYPE/NO. EPC 1600s / #201 CHIEF SCIENTIST Phillips/Barnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	263	1347		40		PAP	RL35	18			X		side scan up/ systems on	250	4.4	49	0-.1	.1	.1			
	263	1550		40		"	"	18		X			EOR 18	235	4.5	51	"	"	"			
	263	1602		40		"	"	19	X				SOR 19	"	"	"	"	"	"			
	263	1615		40		"	"	19 [redacted]					eol 40 raise fish for c/c	235	4.5	55	"	"	"			
	263	1623		41		"	"	19 [redacted]					sol 41	90	4.5	55	"	"	"			
	263	1700		41		"	"	19 [redacted]					eol 41	90	4.5	52.5	"					
	263	1705		TRAN				19 [redacted]				X	sys off	—	4.5	52.5	"	"	"			
	268	0240		42		"	"	19 [redacted]			X		SOL 42	105	4.5	34	0-.1	.1	.1			
	268	0340		42		"	"	19 [redacted]				X	EOL 42	120	4.5	27						
	268	0739		TRAN		"	"	19 [redacted]			X		sys on	295	4.5	23	0-.1	.1	.1			
	268	0743		43		"	"	19 [redacted]	[redacted]				SOL 43	295	4.5	20	"	"	"			
	268	0834		43		PAP	RL35	19 [redacted]					change sweep	295	4.5	38	0-.05	.05				
	268	0845		43				19					change sweep				0-.01					
	268	1034		43		"	"	19 [redacted]		X			End roll 19	~~295~~								
	268	1042		44				20					START roll 20									
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 KHZ Subbottom profiler PAGE 118 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80)

TOW DIST./DEPTH: SOURCE fish RECEIVER fish SHIP DISCOVERER

RECORDER TYPE/NO. EPC 16005/#201 CHIEF SCIENTIST PHILLIPS/BARNES

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	268	11 5.0		44		PAP	RL-35	20				X	CHANGE Roll on Side Scan	175	4.5	35.5	0-0.1"					
	268	1.15.7		44		PAP	RL-35	20			X		PROFILER BACK ON	175	4.5	35.5	0-0.1"					
	268	12.15		44		"	"	20					c/sweep	190	4.5	35	0-0.05"					
	268	1.225		44		"	"	20					c/sweep	"	"	"	0-0.10"					
	268	1.440		45		"	"	20				X	Pulled sss fish to replace fin	065	"	25	"					
	268	15.15		45		"	"	20			X		System on	055	"	25	"					
	268	1.630		45		"	"	20				X	System off eol 45	055	"	32	"					
	~~268~~	~~1.640~~		~~TRAN~~		"	"	21	X				~~start new roll #21~~	—	—	—	"					
	269	0.655		46		PAP	RL35	21	X				SOR 21, SOL 46	320	4.5	57	"					
	~~269~~	~~0.655~~		~~46~~		"	"				X		S	—	—	—						
	269	0906		46		PAP	RL35	21				X		320	4.5	56						
	269	09.16		46		"	"	21			X			320	4.5	55	"					
	~~269~~	~~10.16~~		~~46~~		~~PAP~~	~~RL35~~	~~21~~				X	~~OFF TO CHANGE STYLUS BELT~~									
	269	1230		46		"	"	21		X			EOR 21	320	4.5	57						
	269	1.238		46		"	"	22	X				SOR 22	320	4.5	57	0-0.1"					
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 Subbottom Profiler PAGE 12 OF 19

LOCATOR P1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80)

TOW DIST./DEPTH: SOURCE fish RECEIVER fish SHIP Discoverer

RECORDER TYPE/NO. EPC 1600S/#201 CHIEF SCIENTIST L. Phillips / P. Barnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. * 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	269	1700		46		PAP	RL35	22				X	eol 46 sys. off	265	4.5	48.5	0-.10					
	269	1856		047		PAP	RL35	22			X		SOL 47 sys on				0-0.1"	.1"	.1"			
	269	1922		047		PAP	RL35	22					Lowered fish									
	269	2010		047		PAP	RL35	22		X			E.O.R 22 + CHANGE BELT									
	269	2025		047		PAP	RL35	23	X				S.O.R # 23	280	45	46.5	0-0.1					
	269	2200		947		PAP	RL35	23				X	E.O.L 47 OFF 2214	280	4.5	49						
	269	2237		~~48~~		"	"	23			X		SOL 48	350	4.5	48	0-0.1					
	270	0040		48		"	"	23				X	change sss paper	325	4.2	46	"					
	270	0044		48		"	"	23			X		system on	325	4.2	46	"					
	270	0222		48		"	"	23		X		X	EOR 23	236	4	45	"					
	270	0226		48		"	"	24	X		X		SOR 24	236	4	45	"					
	270	0408		49		"	"	24				X	SOL 49 sys off	092	4.8	45.5	"					
	270	1005		50		PAP	RL35	24			X		S.OL. 50	184	4.5	46	"					
	270	1030		50		PAP	RL35	24					C/SCALE to 0-.05	184	4.5	41	0-.05	.1	.1			
	270	1040		50		PAP	RL35	24					C/SCALE TO 0-0.1	184	4.5	43	0-0.1					
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 kHz Subbottom Profiler PAGE 13 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE fish RECEIVER fish SHIP DISCOVERER

RECORDER TYPE/NO. EPC 1600 S / #201 CHIEF SCIENTIST

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE	ARCHIVE NO. DATA/EQUIP. CODE	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
				**		3 LETT'S	4 LETTERS	*														
	270	1245		50		PAP	RL35	24				X	change sss paper	148	4.6	51	0-0.1"	.1"	.1"			
	270	1251		50		PAP	RL35	24			X		system on	148	4.6	51	"	"	"			
	270	1336		50		"	"	24		X			EOR 24	"	4.3	51	"	"	"			
	270	1340		50		"	"	25	X				SOR 25 / new stylus	"	"	"	"	"	"			
	270	1730		050		PAP	RL35	25					Raised fish									
	270	1915		50		"	"	25		X			EOR #25	130	4.5	50						
	270	1924		50		"	"	26	X				SOR #26	130	4.5	51.5	"	"	"			
	270	1957		050		PAP	RL35	26					Raised fish									
	270	2001	3.0	050		PAP	RL35	26					Raised fish									
	270	2045		050		PAP	RL35	26				X	Sys. off to pull fish									
	271	1102		51		"	"	26			X		SOL 51	239°	4.5	42.5	"	"	"			
	271	1150		51		"	"	26					change display scale	239	4.5	34	0-.05					
	271	1200		51		"	"	26			X		change scale to .1"	239	4.5	38	0-0.10					
	271	1445		51		"	"	26		X			EOR 26	220	4.6	33	"	"	"			
	271	1452		51		"	"	27	X				SOR 27	"	"	33	"	"	"			
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 kHz Subbottom Profiler PAGE 14 OF 19

LOCATOR D1 - 85 - AR (COL. 73-80) (ID. - YR. - AREA)

TOW DIST./DEPTH: SOURCE fish RECEIVER fish SHIP DISCOVERER

RECORDER TYPE/NO. EPC 16005/#201 CHIEF SCIENTIST

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO. *	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	27.1	15.35		51		PAP	RL35	27				X	change 555 paper	220	4.8	32	0-0.1"	.1"	.1"	—	—	
	27.1	15.40		51		"	"	27			X		up	"	"	"	"	"	"			
	27.1	16.00		51		PAP	RL35	27					Raised Fish	220	4.8	29	0-0.1"	.1"	.1"			
	27.1	18.43		51		"	"	27					Raised fish	238	4.8	23.5	"	"	"			
	27.1	~~19~~ 20 3.3		051		PAP	RL35	27					C/Range on 555 (50m)				0-0.1	.1	.1			
	27.1	19.40	30	051		PAP	RL35	27					C/Range on 555 (25m)				0-0.1	.1	.1			
	27.1	19.41	30	051		PAP	RL35	27					C/Range on 555 (50m)				0-0.1	.1	.1			
	27.1	19.45		051		PAP	RL35	27					C/Range on 555 (100m)				0-0.1	.1	.1			
	27.1	20.25		~~5~~1		PAP	RL35	27		X			end roll 27 C/STYLUS BRIEF	220		25.5	0-~~1~~0	.1	.1			
	27.1	20.31		51		"	"	28	X				start roll 28	220		25						
	27.1	21.55		51		"	"	28				X	OFF, EOL 51	220			0-.1	.1	.1			
	27.2	03.00		52		"	"	28			X		SOL 52	320	4.6	42	0-.1"	.1"	.1"			
	27.2	05.15		52		PAP	RL35	28					lower fish	328	4.5	44.5						
	27.2	05.20		52		"	"	28					lower fish some more	330	4.5	45						
	27.2	06.34	30	52		"	"	28					lower fish	330	4.5	47						
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 KHz Subbottom Profiler PAGE 15 OF 19

LOCATOR DI (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE Fish RECEIVER Fish SHIP Discoverer

RECORDER TYPE/NO. EPC 1600S #207 CHIEF SCIENTIST Phillips / Barnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH m	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										
	272	0710		52 **		PAP	RL35	28 *		X			EOR #28				0-0.1"	.1"	.1"			
	272	0715		52		"	"	29	X				SOR #29				0-0.1"	"	"			
	272	0928		52		PAP	RL35	29				X	New Stylus Belt									
	272	0929		52		PAP	RL35	29			X						0-0.1	.1"	.1"			
	272	1208		53		PAP	RL35	29 30		X			EOR 29 1120 EOL #52 1125 SOL #53	230	4.5	47	0-0.1"	"	"			
	272	1211		53		"	"	30	X				SOR 30	230	4.5	47	0-0.1"	"	"			
	272	1325		53		"	"	30				X	off for sss paper change	"	5	46	"	"	"			
	272	1330		53		"	"	30			X		sss up				"	.1"	.1"			
	272	1650	30	53		PAP	RL35	30					raise fish	230	5.0	39	"	"	"			
	272	1659		53		"	"	30					raise fish again	230	5.0	37	"	"	"			
	272	1731		53		"	"	30					raised fish yet again	225	5.0	32	"	"	"			
	272	1745		53		"	"	30		X			EOL #53 EOR #30	230	5.0	30	"	"	"			
	273	0545		54		"	"	31	X				SOR #31 / SOL #54	230	4.5	43	"	"	"			
	273	0550		54		"	"	31					lower fish	207	4.5	42						
	273	0732	30	0541		PAP	RL35	31					lower fish									

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 kHz Sub Bottom Profiler PAGE 16 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE Fish RECEIVER Fish SHIP Discoverer

RECORDER TYPE/NO. EPC 1600S #207 CHIEF SCIENTIST Phillips/Barnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. * 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	273	1937		54		PAP	RL-35	31		X			E.O.R #31	210	45	45	0-0.1	.1"	.1"			
	273	1943		54		PAP	RL-35	32	X				S.O.R #32	210	4.5	45	0-0.1	.1"	.1"			
	273	1610		55		PAP	RL35	32		X			EOR #32	025	4.5	44	"	"	"			
	273	1617		55		PAP	RL35	33	X				SOR #33	025	4.5	44	"	"	"			
	273	1700		55		PAP	RL35	33				X	EOL #55	025	4.5	42.5	"	"	"			
	274	0850		56		PAP	RL35	33			X		S.O.L #56	015	4.5	43.5	0-0.1	"	"			
	274	1315		56		"	"	33		X		~~X~~	EOR 33 EPC change SSS paper/paper	025	4.5	45	"	"	"			
	274	1322		56		"	"	34	X		~~X~~		SOR 34	"	"	"	"	"	"			
	274	1330		57		PAP	RL35	34					EOL #56 / SOL #57	280	4.5	45		"	"			
	274	1645		57		"	"	34				X	EOL #57	203	4.5	46.5	0-0.1	.1"	.1"			
	274	1645		57		PAP	RL35	34		X			EOR #34	203	4.5	46.5	0-.1	.1	.1			
	275	0755		TRAN		PAP	RL35	35			X		SOR #35 Sys on SOL #58 0800	200	4.5	46.5						
	275	0942		58		PAP	RL35	35				X	CHANGE SSS PAPER	203	4.5	46	0-.1	.1	.1			
	275	0951		58		PAP	RL35	35			X		Sys. BACK ON	203	4.5	46	0-.1	.1	.1			
	~~275~~	~~1020~~		~~58~~																		
	1-3	5-8	9-10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 KHZ SUS. bottom profiler PAGE 17 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80) TOW DIST./DEPTH: SOURCE FISH RECEIVER FISH SHIP DISCOVERER

RECORDER TYPE/NO. EPC 1600 S CHIEF SCIENTIST PHILLIPS / BARNES

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. * 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										
	275	1335		59		PAP	RL35	35		X			EOR 36	317	4.2	53	0-75m					
	275	1342		59		"	"	36	X				SOR 36	"	"	"	"					
	275	1929	30	59		"	"	36		X			EOR 36	322	4.5	57.5	"					
	275	1934	30	59		"	"	37	X				SOR 37	322	4.5	57.5	"					
	276	1126		60		"	"	37			X		SOL 60	119	4.5	47						
	276	1545		60		"	"	37		X			EOR 37	110	4.5	46	"					
	276	1550		60		"	"	38	X				SOR 38	110	4.5	46	"					
	276	1656		60		"	"	38				X	change roll on SS	110	4.5	46	"					
	276	1813		060		PAP	RL35	38					Fish Lowered									
	276	1931		060		PAP	RL35	38			X	X	off momentarily: Roll adjust.				0-0.1"					
	276	1958		060		PAP	RL35	38					Raised Fish									
~~276~~	~~2130~~			~~60~~		~~PAP~~	~~RL35~~	~~38~~				~~X~~	~~End line 60~~	~~125~~	~~4.5~~	~~39.5~~						
	276	2130		60		PAP	RL35	38		X			End line 60, End roll	125	4.5	37.5						
	276	0713		61		PAP	RL35	39	X				sys. on SOL #61	310	4.5	30.5						
	277	1210		62		"	"	39				X	off to adjust paper	270	4.5	41	"					

* PLEASE RIGHT-JUSTIFY THESE ENTRIES

** DO NOT ENTER ST/END OF LINE ON THIS FORM (FOR KEYPUNCHING)

MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 kHz Subbottom Profiler PAGE 18 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80)

TOW DIST./DEPTH: SOURCE fish RECEIVER fish SHIP DISCOVERER

RECORDER TYPE/NO. EBC 16005 / #201 CHIEF SCIENTIST Phillips

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO.	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE	ARCHIVE NO. DATA/EQUIP. CODE	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE	SPEED	WATER DEPTH	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
				**		3 LETT'S	4 LETTERS	5 LET/NO. *														
	277	1211		062		PAP	RL35	39			X		System up	270	4.5	41	0-75m	.1"	.1"			
	277	1245		062		"	"	39		X			EOR 39	"	"	"	"	"	"			
	277	1255		062		"	"	40	X				SOR #40	"	"	"	"	"	"			
	277	1630		062		PAP	RL35	40				X	End of Line 062				0-75m	.1"	.1"			
	278	0837		063		PAP	RL35	40			X		SOL 63	290	4.5	29.5	0-75m	.1	.1			
	278	0935		063		"	"	40				X	sidescan paper change	290	4.5	35.5	"					
	278	0939	40	063		"	"	40			X			290	4.5	35.5	"	.1	.1			
	278	1020		063		PAP	RL35	40		X			E.O.R 40	290	4.5	38.5		.1				
	278	1023		063		PAP	RL35	41					S.O.R 41	290	4.5	38.5						
	278	1206		063		"	"	42		X			EOR 41	276	4.5	41						
	278	1208		063		"	"		X				SOR 42	276	4.5	41						
	278	1455		063		"	"					X		290	4.7	44.5	"	"	"			
	278	1503		063		"	"				Y		Change SSS paper	290	4.7	44.5	"	"	"			
	278	1605		063		PAP	RL35	41 [redacted]		X			EOR # [redacted] 41				0-.1"	.1"	.1"			
	278	1609	30	063		PAP	RL35	42 [redacted]	X				SOR # [redacted] 42				0-.1"	.1"	.1"			
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

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MDIG 1/77

U.S.G.S. ACOUSTIC EQUIPMENT LOG

LEG 1 EQUIP. TYPE 3.5 kHz Subbottom Profiler PAGE 19 OF 19

LOCATOR D1 (ID.) - 85 (YR.) - AR (AREA) (COL. 73-80)

TOW DIST./DEPTH: SOURCE Klein Fish RECEIVER Klein Fish SHIP R/V Discoverer

RECORDER TYPE/NO. EPC 1600s / #201 CHIEF SCIENTIST Phillips / Barnes

PUNCH FLAG	TIME & POSITION * JULIAN DAY	GMT HR.-MIN.	GMT SEC.	LINE NO. **	STA. NO. OR SHOT POINT	MEDIA/ SPEC. CODE 3 LETT'S	ARCHIVE NO. DATA/EQUIP. CODE 4 LETTERS	ARCHIVE NO. ROLL, REEL OR SEQUENCE NO. * 5 LET/NO.	'X' IN ONE BOX ONLY S/E OF ROLL, REEL STRT	S/E OF ROLL, REEL END	DATA/SYST RECORDING ON	DATA/SYST RECORDING OFF	COMMENTS	COURSE OT	SPEED kts	WATER DEPTH m	RECORDER SCALE	RECORDER SWEEP	RECORDER SHOOT	FILTERS HIGH	FILTERS LOW	POWER
	278	1700		063		PAP	RL35	42				X	End of Line 063	290	4.5	48.0	0-0.1"	.1"	.1"			
	278	0648		064		PAP	RL35	42			X		SOL #64	228	4.5	36	0-0.1"	"	"			
	278	0655		064		"	"	42					c/scale to 0.05"	228	4.5	36	0-0.05"	0.05"	0.05"			
	279	0800		064		PAP	RL35	42				X	Break in Line									
	279	0905		064		PAP	RL35	42			X		Sys. on	225	4.5	39	0-0.05"					
	279	1025		064		PAP	RL35	42		X			E.O.L 42	220	4.0	45	0-0.05"	0.05"	.05"			
	279	1027		064		PAP	RL35	43	X				B.O.L 43									
	279	1120		64		PAP	RL35	43		X			End roll 43, End line 64, End cruise D1-85-AR									
	1-3	5-8	9, 10	12-15	16-19	21-23	25-28	29-33	37	38	39	40										

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