NECH 82-4
DFS I marine observer's Report

U.S. GEOLOGICAL SURVEY
OFFICE OF MARINE GEOLOGY

Woods Hole, Massachusetts
02543

82-4
NECH 101387
82016

OBSERVER'S MARINE REPORT

NE82-4

VESSEL NERCHO DATE 6/15/82 #1

Client	USGS	Type instrument	OFS IV	Offset distance	15m.
Area	LONG ISLAND SOUND	Record filter	18 → 256	Group interval	—
State	CONN	Sample rate	1ms	Fold coverage	—
Observer	MILLER	gun depth	10'	in.³ of guns	80

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		001							START LINE 7 80" WATER
									GUN 10SEC FIRE, 200 ELEMENT
									SINGLE CHANNEL ON 12
		48	1815	102		58'	1	0007	
		132	1830			59'	1	007	GUN ~1550 PSI
									SP 3.7 KTS
		220							OVERDRIVES
		284							MOVED STREAMER OUT
									10m MORE
		311	1900	102		75'	1	7	OFFSET IS NOW 25m
		403	1915	102		82	2	7	GUN ~1600 PSI
		467	1927						MOVED STREAMER OUT 10m
									MORE, OFFSET NOW 35m
		492	1930	101		78'	2	7	GUN ~1650
		582	1945	102		96'	2	7	
		672	2000	102		110'	2	7	GUN ~1650
		743	2012	102		105	2	2	LAST SHOT OF LINE
		744							NO GUN
		745							NO GUN

OBSERVER'S MARINE REPORT

VESSEL NEECHO DATE 6/17/82 #2

Client	USGS	Type instrument	DFS V	Offset distance	40m
Area	LONG ISLAND SOUND	Record filter	18/256	Group interval	10m
State	CONN	Sample rate	1ms	Fold coverage	3
Observer	MILLER	gun depth	10'	In.³ of guns	80

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		001	1647	95	5-?-?	72'	3	7A	START LINE 7A
		74	1700	95	5-?-?	82'	3	7A	GUN ~1600PSI
		~~84~~							SPD ~ 4 KNTS
		89			5-12-X				JIGGLED DECK PLUG
									TO GET DEPTH AND WORKING
		165	1715	95	5-5-X	84'	3	7A	CH 1+2 ARE DEAD
									CH 6 WEAK
									CLOCK WAS NOT
									READING ANYTHING UNTIL
									~ S.P. 100
		253	1730	95	5-5-X	101	3	7A	
		358	1747	95	5-5-X	100			CHANGED GAIN FROM
									LOW TO MED.
		436	1800	95	6.5-6-X	165'	4	7A	
		512	1813						DROPPED STREAMER
									DOWN - LOBSTER POTS
									+ GUN CROSSING LINE
		529	1815	95	9-7-X	149'	4	7A	
		621	1831	95	9-7-X	90'	4	7A	GUN ~1500 PSI
		629							BROUGHT # STREAMER
									BACK TO 5'
		637							LOWER WHOLE STREAMER
									DOWN TO 10'
		708	1845	95	10-10-X	94'	4	7A	GUN-1600 SPD 3.8
		799	1900	95	9-8.5-X	91'	5	7A	
		886	1915	95	10-9.5-X	98'	5	7A	GUN ~1600 SPD 4.2
		976	1930	95	10-9.5-X	104'	5	7A	GUN ~1600 SPD 3.9
		1065	1945	95	10-9.5-X	115	5	7A	GUN ~1600 SPD 3.9
		1247	2015	90	10-9.5-X	102	6	7A	
		1335	2030	95	9-8.5-X	99	6	7A	GUN 1600 SPD 3.7
		1427	2045	95	9-8.5-X	96	6	7A	
		1515	2100	95	9-8.5-X	95'	6	7A	GUN 1600 SPD 4.0
		1545			7-6.5-X				LOWERED STREAMER
		1604	2115	95	8-8-X	97'	7	7A	GUN 1600 SPD 4.1
		1696	2130	95	10-10-X	98'	7	7A	GUN 1600 SPD 3.8
		1706	2132	95	10-10-X	94'	7	7A	EOL END OF DAY

OBSERVER'S MARINE REPORT

VESSEL NE82-4 NEECHO DATE 6/18/82 # 3

Client	USGS	Type instrument	DFS V	Offset distance	40
Area	LONG ISLAND S.	Record filter	18 → 256	Group interval	10
State	CONN	Sample rate	1ms	Fold coverage	3
Observer	MILLER	gun depth	10'	In.³ of guns	80

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
			1534		10-10-X	—	8	7A	START OF DAY
		1707							CONTINUATION OF LINE
									7A GUN ~ 1600
									SPD 4.4
									CHANNELS 5-2 ARE
									BAD
									CHANNELS 1 & 6 ARE
						72			WEAK
		1859	1600	90	10-12-X		8	7A	CHANNEL 1 IS GONE
		1949	1615	90	10-10-X	92	8	7A	
		2039	1630	90	9-9-X	99	8	7A	GUN 1600 SPD 4.5
		2132	1645	90	10-11-X	99	9	7A	GUN 1600 SPD 4.5
		2219	1700	90	10-10-X	99	9	7A	GUN 1600 SPD 4.7
		2310	1715	90	9-8.5-X	84	9	7A	CHANNEL 5 IS NOW GOOD
		~~2399~~	~~1730~~	~~90~~	~~10-10.5-X~~				GUN 1600 SPD 4.2
		2399	1730	90	10-10.5-X	86	9	7A	GUN 1600 SPD 4.0
		2490	1745	90	10.5-11.5-X	88	10	7A	GUN 1600 SPD 4.1
		2579	1800	90	8-8-X	94	10	7A	GUN 1600 SPD 3.7
		2669	1815	90	8.5-9-X	93	10	7A	GUN 1600 SPD 3.8
		2703	1820	90	10-10-X	92	10	7A	GUN 1600 SPD 3.8
		001	~~1945~~		8-8-X	54	11	8	START OF LINE 8
			1950						GUN 1500 SPD 3.0
		61	2000	235	12-11-X	54	11	8	GUN 1600 SPD 4.3
		153	2015	240	11-10.5-X	50	11	8	GUN 1600 SPD 4.1
		242	2030	256	11.5-11.5-X	54	11	8	GUN 1550 SPD 3.5
		332	2045	255	11-10.5-X	52	11	8	GUN 1550 SPD 4.2
		421	2100	255	11.5-13-X	48	12	8	GUN 1550 SPD 4.2
		428	2101						END OF DAY

OBSERVER'S MARINE REPORT

VESSEL NE 82-4 DATE 6/21/82 # 4

Client	USGS	Type instrument	OFS V	Offset distance	40 m
Area	LONG ISLAND SOUND	Record filter	18 - 256HZ	Group interval	10 m
State	CONN	Sample rate	1ms	Fold coverage	3
Observer	MILLER	gun depth	10'	in.³ of guns	80

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		500	1550		8-10-X	54	11	8	START DAY JUNE 21
									GUN FIRING 10SEC AT 1600
									PSI SPD 4KTS
		~~540~~							
		540							CORRECTED PROBLEMS WITH
									CHANNELS 4&7
		560	1600	085	8-10-X	59	11	8	GUN 1700PSI SPD 4KTS
		680	1620	085	8.5-11-X	52	11	8	GUN 1600 SPD 3.4
		740	1630	100	9.5-9.5-X	47	11	8	GUN 1600 SPD 4.0
		832	1645	100	10-10-X	42	11	8	GUN 1550 SPD 4.1
		920	1700	100	9.5-9.5-X	30'	13	8	GUN 1600 SPD 3.8
		1010	1715	100	10-10-X	28'	13	8	GUN 1600 SPD 4.3
		1100	1730	100	10-10-X	43'	13	8	GUN 1600 SPD 4.2
		1190	1745	100	10-10.5-X	45'	13	8	GUN 1600 SPD 4.1
		1280	1800	100	10-10-X	48'	14	8	GUN 1600 SPD 4.4
		1370	1815	100	10-10-X	53'	14	8	GUN 1600 SPD 4.3
		1460	1830	100	9.5-9.5-X	56'	14	8	GUN 1600 SPD 3.8
		1550	1845	100	10-9.5-X	55'	14	8	GUN 1600 SPD 4.4
		1640	1900	100	15-19-X	57	14	8	GUN 1600 SPD 3.9
		1660							STREAMLINER BACK UP
									TO 10-10-X
		1730	1915	100	10-10-X	56	15	8	GUN SPD 4.3
		1764	1921	100	10-10-X	57	15	8	EOL 8
		001	1951	260	8.5-8.5-X	47	16	1C	SOL #1 GUN FIRING 10SEC
		52	2000	270	8.5-8.5-X	46	16	1C	GUN 1600 SPD 4KTS
		142	2015	270	9-9.5-X	44	16	1C	GUN 1600 SPD 3.6 KTS.
		232	2030	270	9.5-10-X	36	16	1C	GUN 1600 SPD 3.8
		322	2045	270	9.5-9.5-X	31	16	1C	GUN 1600 SPD 3.8
		412	2100	270	9.5-9.5-X	35	17	1C	GUN 1600 SPD 3.9
		502	2115	270	10-9.5-X	31	17	1C	GUN 1600 SPD 4.4
		~~50~~ 511	2116	270	10-10-X	32	17	1C	EOL 1 END OF DAY
									6/21/82

OBSERVER'S MARINE REPORT

VESSEL NE 82-4 DATE 6/22/82 #5

Client	USGS	Type Instrument	DFS IV	Offset distance	4'
Area	LONG ISLAND SOUND	Record filter	77/512 HZ	Group Interval	10
State	CONN	Sample rate	1/2 ms	Fold coverage	6
Observer	MILLER	gun depth	~~8'~~ 1.5 m	In.³ of guns	15

Pre-plot	Shotpoint	File No.	Time	#i dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		001	1650		10-10.5-X	35	18	10	START OF LINE 10
		223	1700		10-10.5-X	33	18	10	FIRING EVERY 2.5 SEC
		461	1						GUN 2000 SPD 3.8 KTS
		606	1715		10-10-X	41	19	10	GUN ~~2000~~ 1800 SPD ?
									CHANNEL 4 COMES AND
									GOES
	940	~~1730~~	1730		10-10-X	37'	20	10	GUN 1600 ADJ. AIR PRES
									TO INCREASE
		1135	1738						GUN PRESS UP TO 2000
		1299	1745	100	10-10.5-X	47'	21	10	GUN PRESS 2050
									THERE APPEARS TO BE A
									NO. OF SHOTPOINTS WHERE
									THERE IS NO DATA
									(GUN DIDN'T GO OFF)
		1457	1800	100	10-10.5-X	48	22	10	GUN 1950
		1702 ~~1802~~							GUN OFF
		1710							GUN ON
		1760	1804				23		END LINE 10
		001	1959	008	5-6-X	92	24	9	SOL #9 FIRING 5 SEC
		16	2000	008	5-6-X	92	24	9	GUN 2000 SPD 3.8
									HAD TROUBLE WITH SECTIONS
									3 & 4 BUT GOT THEM BACK
									BY #100
		194	2015	008	10-10.5-X	78	24	9	GUN 2000 SPD ~~4.2~~ 4.2
		374	2030	008	9.5-10-X	82	25	9	GUN 2000 SPD 4.9
		407	2032						INCREASE ~~DECREASE~~ FIRING RATE
									TO 4.3 SEC
		578	2045	008	9.5-10.5-X	68'	25	9	GUN 1950 SPD 4.9
		787	2100	008	9.5-10-X	63	26	9	GUN 1950 SPD 4.3
		996	2115	008	9.5-10-X	57'	27	9	GUN 1950 SPD 4.6
		1205	2130	008	9.5-10-X	48	27	9	GUN 2000 SPD 4.1
		1414	2145	008	9.5-10-X	42	28	9	GUN 1950 SPD 3.4
		1624	2200	008	9.5-10-X	29	29	9	GUN 1950 SPD 3.4
		1636	2201						EOL 9

OBSERVER'S MARINE REPORT

NE 82-4

VESSEL NEECHO DATE 6/23/82 # 6

Client	USGS	Type instrument	DFS V	Offset distance	30m
Area	LONG ISLAND SD.	Record filter	77-512	Group interval	10m
State	CONN	Sample rate	1/2 MS	Fold coverage	6
Observer	MILLER	gun depth	1.5m	in.³ of guns	15

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		001	1454	225	6-6-X	35	30	10	START OF LINE 10 FIRING
									ON SSIEL GUN 2000
									CHANNEL #7 IS DEAD
									SPD 4.4 KTS.
		71	1500	225	9-8.5-X	36'	30	10	GUN 2000 SPD 4.3
		251	1515	225	10-9.5-X	40'	30	10	GUN 2000 SPD 4.2
		431	1530	225	10-10-X	44'	31	10	GUN ~~2000~~ 1775 SPD 4.2
		611	1545	225	10-10-X	56'	31	10	GUN 2100 SPD 4.3
		790	1600	225	10-10.5-X	59'	32	10	GUN 2000 SPD 4.2
		974	1615	225	9.5-10-X	88'	32	10	GUN 1900 SPD 3.9
		1151	1630	225	9.5-10-X	71'	33	10	NOTICE ~70 HZ NOISE
									IN CH 11212
		1347					34		MISSED 2 SHOT POINTS
									TAPE DECK WAS ON LOCAL
									INSTEAD OF REMOTE
			1640		NO DATA	ON FILES UP TO 1369			
		1369	1698						DFS V CRAPPED OUT
		1370	1700	225	9.5-9.5-X	85'	34	10	BACK ON LINE
									CHANNEL 7 IS BACK
									~~70HZ NOISE HAS GONE~~
									STREAMER HAS PICKED
									UP ALOT OF STREAM CHOP
									PICKING UP ~2' SEAS
		1539							PUT LOW CUT IN (REASON FOR STREAM
		1543	1715	225	9-8.5-X	109'	35	10	GUN 1800 SPD 3.8
		1723	1730	225	9.5-9-X	139	35	10	GUN 1800 SPD 3.6
		1903	1745	225	9.5-9-X	138	36	10	GUN 1900 SPD 3.8
		2082	1800	225	9.5-9.5-X	91	36	10	GUN 1900 SPD 3.5 EOL 10
		001	1902	030	9.5-9-X	86	37	11	START LINE 11 AS ABOVE
		148	1915	030	10-9.5-X	100	37	11	GUN 1900 SPD 3.5
		327	1930	030	10-10-X	108	38	11	GUN 2000 SPD 3.7
		508	1945	030	10-11-X	119	38	11	GUN 2000 SPD 4.2
		687	2000	030	10-11-X	102	39	11	GUN 1900 SPD 3.2
		866	2015	030	9.5-10-X	81	39	11	GUN 1900 SPD 3.7
		1047	2030	030	9.5-10-X	69	40	11	GUN 1600 SPD 3.2
		1227	2045	030	9.5-10-X	71	40	11	GUN 1500 SPD 4.0
		1407	2100	030	9-9.5-X	54	41	11	GUN 2000 SPD 3.9
		1587	2115	030	9-10-X	26	42	11	GUN 2000 SPD 3.5
	EOL 11	1743	2128						

OBSERVER'S MARINE REPORT

VESSEL NEECHO NE 82-4 DATE 6/24/82 # 7

Client	USGS	Type instrument	DFS IV	Offset distance	30 m
Area	LONG ISLAND	Record filter	VARIAS LB 77-512	Group interval	2.0 m
State	CONN	Sample rate	1/2 ms	Fold coverage	
Observer	MILLER	gun depth	1.5 m	in.^{3} of guns	15

Pre-plot	Shotpoint	File No.	Time	#1 dir.	Cable Depth	W.D.	Reel No.	Line No.	Remarks
		001	1532		5-9-X	94	~~3~~ 43	TEST	START OF TEST FIRING 5.5 SEC GUN 2000 SPD 3.3
		100	1546		5-9-X	90	43	TEST	" " SPD 3.5
		150	1549		5-9-X				GUN 1800 PSI SPD 3.6
		214	1557						GUN 1500 PSI
		285	1558		5-9-X	95	43	TEST	END OF TEST