

TITAN 1000 MARINE SEISMIC OBSERVER'S DATA FOR PROSPECT PAGES 1 TO 10

CLIENT: **F.S.P.G** AREA: **Beaufort Sea** VESSEL: **M/V E.O. Vetter** PARTY NO.: **2972**
 LINE NO.: **FSPG 2B** DIRIN: **148.5** DATE MOYR: **DAY 26** YR: **89** PARTY MANAGER: **Wayne Nowosy**
 SHIPMENT NO.: **2972-TSP-89-01-01**

DISTANCES: SOURCE CENTRE NEAR GROUP

CNP TO STERN **35.1** M
 PRIMARY ANTENNA **1.1** M TO CNP BEARING TO CNP **250** DEG
 FATHOMETER **1.7** M AFT OF PRIMARY ANTENNA

DEPTH TRANSDUCERS: 476 428 580 320 272 212 164 104 56 8
 DEPTH CONTROLLERS: 476 428 380 320 272 212 164 104 56 8
 COMPASS SENSORS: 476 428 380 320 272 212 164 104 56 8

REMARKS: **DIAGNOSTIC SMART BANDS (396) HAVE COMPASS, DEPTH TRANSDUCER, AND CABLE LEVELER IN ONE UNIT. WEAK TRACES - 307, 308, 426, 438**

RECORDING PARAMETERS: INSTRUMENT TYPE: **FCS (TITAN 1000)** S/N: **5**
 FILTER SETTINGS: HI **64** HZ. SLOPE **32** DB/OCT LO **8** HZ. SLOPE **18** DB/OCT
 PREAMPLIFIER GAIN: **H M 0 12** DB SAMPLE RATE: **4** MS RECORD LENGTH: **45.5** SECS
 TAPE FORMAT: SEG **P** GAPPED PACKING DENSITY: **6250** BPI
 BYTES IN HEADER: **3456** EXTENDED HEADER USED: YES NO
 DELAY RECORD MODULE USED: **0** SECS TAPE LENGTH: **3600** FT.
 REVERSED TRACES (IN TSR): **NONE** GAIN MODE: **FIXED** (FLOAT) MS
 TIMEBREAK WINDOW: **N/A**

LINE STATUS: PROC/COMPLETE - DNP - HOLD - DRSH - UNDS
 FSP: **101** FRN: **101** LSP: **1789** LRN: **1769** TOT SPS: **1689** TOT RNS: **1669**

DEAD TRACES: **2** ON LINE
 NOISY TRACES: **14** INST: **14** TAPES USED: **67**

SOURCE DETAILS: SOURCE TYPE AND SIZE: **PNA CON 7200** M SOURCE DEPTH: **7** M AIRGUN PRESSURE: **2000** PSI SOURCE FIRING DELAY: **5/2** MS STREAMER TYPE: **DIOS 4807** CABLE DETAILS: - NUMBER OF GROUPS: **480** GROUP LENGTH: **6.25** M NUMBER OF PHONES/GROUP: **16** TARGET STREAMER DEPTH: **12** M STREAMER LENGTH (CENTRE NEAR GP TO CENTRE FAR GP): **2962.5** M GROUP CHARGE SENSITIVITY: **53.4 uV/4 bar** NUMBER OF SEMS: **40** NUMBER OF SEMS IN USE: **40** LENGTH OF EACH STRETCH SECTION: **50** M NUMBER OF STRETCHES IN FRONT END: **4** NUMBER OF REPEATERS IN USE: **4** FOLD COVERAGE: **3000** SHOT INTERVAL: **50** M NOISE DETAILS: **BOL** EOL: **104** UB: **UB**

GROUP LOCATIONS IN STREAMER OF: **11 OFFSET AVERAGE OF VALUES DERIVED FOR ALL SIX (6) STRINGS. GUN SPREAD EQUALS 87 M**



CLIENT: **L.S.P.G.**
 LINE No: **15PG2B**

PROSPECT: **HERSCHEL EAST**
 LINE ID: **20002**

AREA: **BEAUFORT SEA**
 DIRN: **148.5**

DATE: **MO 9 DAY 26 YR 89**

PARTY: **2972**
 OBSERVER: **DOB SNELLING**

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REEL NUMBER	TXP	SHOTPT	RECORD NUMBER	TIME (GMT)	WATER DEPTH METERS	STREAMER DEPTH IN METERS										BAD RECORDS				REMARKS						
						NEAR	10	9	8	7	6	5	4	3	2	1	NS	Other	MSP		AF	INST	F.A.			
302567	0	—	100			11.9	11.6	11.9	11.9	11.9	11.9	11.9	11.9	11.9	12.2	12.2	12.2	12.2	11.9							Noise Test
		101	101	0318	65	11.9	11.6	11.9	11.9	11.9	11.9	11.9	11.9	11.9	12.2	12.2	12.2	12.2	11.9							BOL
		103	-1																							MSP (SPEED)
		105	-1																							MSP (SPEED)
		107	-1																							MSP (SPEED)
		127	124																							EOT
302568	1	128	125	0331	65	12.5	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	11.9	11.9							BOL
		152	149																							EOT
302569	2	153	150	0342	64	13.1	13.1	13.4	13.4	13.1	13.1	13.1	13.1	12.8	13.4	13.1	13.1	13.1	13.1							BOL
		177	174																							EOT
		178	(-1)			13.4	13.7	13.7	13.4	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1							MSP (NAV)
302570	0	179	175	0354	66	13.4	13.7	12.7	13.4	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1							BOL
		203	199																							EOT
302571	1	204	200	0406	66	13.1	13.1	13.4	13.4	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1							BOL
		228	224																							EOT
302572	2	229	225	0418	67	13.7	13.7	13.7	13.7	13.7	14.0	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7							BOL
		253	249																							EOT
302573	0	254	250	0430	66	14.0	13.7	13.7	13.7	13.4	13.7	13.7	13.7	13.7	13.7	13.7	13.7	14.0	14.0							BOL
		272	-1																							AF - Gun 13
		278	274																							EOT
302574	1	279	275	0442	68	12.2	12.8	12.5	12.5	12.8	12.8	13.1	12.8	12.8	12.8	12.8	12.8	12.8	12.5							BOL

REEL NUMBER	TXP	SHOTPT	RECORD NUMBER	TIME (GMT)	WATER DEPTH METERS	STREAMER DEPTH IN METERS										BAD RECORDS				REMARKS			
						10	9	8	7	6	5	4	3	2	1	NS	Other	MSP	AF		INST	F.A.	
302591	0	705	700	08:02	61	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	3.4	Bot	
	0	729	724																			Foot	
302592	1	730	725	08:14	58	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	3.7	Bot	
	0	754	749																			Foot	
302593	2	755	750	08:25	50	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	3.9	Bot	
		775	-																			A/F	
	0	779	774																			Foot	
302594	0	780	775	08:37	49	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	3.7	Bot	
	0	804	799																			Foot	
302595	1	805	800	08:49	53	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	3.7	Bot	
	1	829	824																			Foot	
302596	2	830	825	09:01	48	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	4.7	Bot	
	2	854	849																			Foot	
302597	0	855	850	09:12	49	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	3.9	Bot	
	0	879	874																			Foot	
302598	1	880	875	09:24	47	14	12	12	12	12	12	12	12	12	12	12	12	12	12	12	3.2	Bot	
	1	904	899																			Foot	
302599	2	905	900	09:36	44	14	12	12	12	12	12	12	12	12	12	12	12	12	12	12	2.4	Bot	
		926	-																			DATA CHG ERRORS. REC# 921	
		927	-																			" "	" # 922.
	2	929	924																			Foot	



MARINE SEISMIC OBSERVER'S LOG

CLIENT L. S. P. G.
 AREA BURNHAM
 PROSPECT EAST HERSCHMEL
 DIR'N 148.50

DATE MO 09 DAY 26 YR 89
 MN F. O. VETTER
 DUAL STREAMER SPREAD M

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 PARTY 2972
 OBSERVER BURNHAM

REEL NUMBER	TXP	SHOTPT	RECORD NUMBER	TIME (GMT)	WATER DEPTH METERS	STREAMER DEPTH IN METERS										BAD RECORDS				REMARKS					
						10	9	8	7	6	5	4	3	2	1	NS	Other	MSP	AF		INST	F.A.			
02607	1	1135	1124	11:22	48																				EOT
02608	2	1135	1125	11:22	48																				Bot
	2	1159	1119																						EOT
02609	0	1160	1150	11:33	48																				Bot
	0	1184	1174																						EOT
02610	1	1185	1175	11:45	47																				Bot
		1200	-1																						MSP (SPEED)
	1	1210	-1																						DATA CHK ERROR
02611	2	1211	-1	11:57	49																				" "
		1212	-1																						" "
	2	1236	1224	12:08	46																				MSP (SPEED)
302612	0	1237	1225	12:08	46																				EOT
		1243	-1																						Bot
	0	1244	-1																						MSP (INSTRUMENT)
	0	1245	-1																						" Spu Bus B "
		1255	-1																						" Spu Bus B " REC#1232
	0	1263	1249																						MSP SPEED
302613	1	1264	1250	12:21	44																				EOT
	1	1288	1274																						Bot
02614	2	1289	1275	12:33	43																				EOT
	2	1313	1299																						Bot
																									EOT

Client: I.S.P.G. Prospect: HERSCHEL EAST Vessel: m/v E.O VETTER

Date: SEPT. 26/89 Julian Day: 269 Shipment # 2972-ISP-89-01-01

BOL: 1506 20 Time (GMT): 03:18 CMS ID#: 20002

Record Length: 25.5 seconds Shot point interval: 50 meters

FSP: 101 FRN: 101 Speed: 3.8 knts Water Depth: 64.8 m

Direction: 148.5° Heading: 150°

Feather Angle: -4 degrees Ave. Cable Noise: 2.0016 uB

Bad Traces: 307, 308, 426, 438 WEAK POOR RESPONSE

Cable Depths At BOL:

10	11.9	9	11.6	8	11.9	7	11.9	6	11.9	5	12.2	4	11.9	3	12.2	2	12.2	1	11.9
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Offset: 192.9 Meters (Centre Source to Center Near Group)

Weather Conditions> Wind: W 23 knts. Seas: 6 ft.

Spread: 87 Meters

Gun Status Array Volume: 7120 cu.in. Array Pressure: 1900 p.s.i

Gun Off			18	41	53	1													
Gun On	4461	4464		444	4453	441													
	15	56		45A	55A	5A													

Navigation Primary: HYBRID Secondary: _____

Syledis Herschel Garry Pitt Komakuk

Argo Monument Garry W King

Coordinates at BOL: 69 47 59.83 N
139 00 00.76 W

Comments:
 1/ BIRD # 10 TENDED DEEP SP 865 - EOL (DUE TO CHANGE IN CURRENTS)
 2/ 7 BAD RECORDS IN 30 SP RANGE 1652 - 1673
 LINE ACCEPTED BY CLIENT REP

GMT	SP#	Comments
03:18	101	BOL 1506 2B FSR 101 FRN 101
	103	MSP SPEED
	105	MSP SPEED
	107	MSP SPEED
	108	GUN RECORD SPEED 3.4 Kts
	132	CABLE DEPTH LOWERED BY 1/2 METER BY CLIENTS REQUEST
	152	CABLE DEPTH LOWERED TO 13m (SWEEN NOISE)
	178	MSP SPEED
	217	CABLE DEPTH LOWERED TO 13 1/2 METERS (SWEEN NOISE)
	253	CABLE DEPTH RAISED TO 13 METERS
	273	A/F GUN # 13
	276	CABLE RAISED TO 12 1/2 METERS
	277	GUN # 13 OFF N/F VOL = 6960 IN ³
	282	GUN 15A ON IN CH 13 VOL = 7120 IN ³
	339	GUN 15A OFF (CH 13) N/F VOL = 6960 IN ³
	379	UNCORRECTED TAPE ERROR SWITCHED TO 3 WAY ARGO PRIMARY NAV
	402	AMPLIFIER CHECK ERROR
	411	UNCORRECTED TAPE ERROR
	429	UNCORRECTED TAPE ERROR
	501	ONLINE NOISE TEST NO GUNS FIRED RANDOM SWEEN NOISE
	516	A/F (AIR LEAK)
	521	A/F GUN 55A (CH 53)
	522	A/F GUN 55A (CH 53)
	523	GUN 55A (CH 53) OFF VOL = 6800 IN ³
	582	SPN BUS B HANG UP
	615	SPN BUS A HANG UP

GMT	SP#	Comments
	682	MSP (SPEED)
	775	A/F
	865	NOTE: BIRD #10 BEGINS TO TEND DEEP (GOING TO 13 METERS)
	905	NOTE: BIRD #10 TENDING DEEPER (15 METERS)
	926	DATA CHECK ERROR
	927	DATA CHECK ERROR
	940	NOTE: BIRD #10 TENDING DEEP @ (14 METERS)
	965	NOTE: BIRD #10 TENDING DEEP @ (14.5 METERS)
		ATTRIBUTE FRONT END DEPTH PROBLEM TO INTERFERENT CURRENTS AROUND HERSCHEL ISLAND. CONTINUING WITH APPROVAL FROM REP.
	1007	ONLINE NOISE TEST NO GUNS FIRED
	1041	MSP (SPEED)
	1045	MSP (SPEED)
	1055	NOTE: BIRD #10 TENDING DEEP (15 METERS) NECESSARY TO REDUCE SPEED DUE TO MISSED SPS. WITH MAXIMUM SPEED FRONTEND ROLING AT 14 METERS.
	1072	MISSED SP (SPEED)
	1074	MISSED SP (SPEED)
	1200	MSP (SPEED)
	1210	DATA CHECK ERROR
	1211	DATA CHECK ERROR
	1212	MSP (SPEED) 25

GMT	SP#	Comments
	1243	MSP (INSTRUMENT) NO RECORD
	1244	SAL BUS B HANG UP
	1245	SAL BUS B HANG UP
	1255	MSP (SPEED)
	1319	DATA CHECK ERROR
	1320	DATA CHECK ERROR
	1330	NOTE: BIRD # 10 TENDING DEEP \approx 15.5 METERS. \leftarrow
		LINE CONTINUING WITH CLIENT REPS APPROVAL.
	1501	ON LINE NOISE TEST NO GUNS FIRED
14:22	1525	BEGIN PICKING UP SEISMIC INTERFERENCE FROM M/V EXPLORER. 1-2 bars
	1616	MSP (SPEED)
	1652	MSP (SPEED)
	1664	MSP (SPEED)
	1667	MSP (SPEED)
	1669	A/F GUN # 47
	1670	A/F GUN # 47
	1671	MSP (SPEED)
	1673	MSP (SPEED)
	1680	NOTE: FRONT END CABLE DEPTHS DEEP BIRD # 10 @ 17.5 METERS BIRD # 9 @ 14.0 METERS.
		REVS REDUCED IN ENGINE ROOM IN ORDER TO SLOW DOWN.
	1700	NOTE: FRONT END CABLE DEPTHS DEEP BIRD # 10 @ 18 METERS BIRD # 9 @ 14 METERS.
	1730	NOTE: FRONT END CABLE DEPTHS DEEP BIRD # 10 @ 19.5 METERS BIRD # 9 @ 15.5 METERS

Client: I.S.P.G. Prospect: HERSCHEL EAST Vessel: m/v E.O VETTER

Date: SEPT 26/89 Julian Day: 269 Shipment # 2972-ISP-89-01-01

EOL: 15PG 2B Time (GMT): 16:22 CMS ID#: 20002

Record Length: 25.5 seconds Shot point interval: 50 meters

LSP: 1789 LRN: 1769 Speed: 3.5 knts Water Depth: 28.6 m

Direction: 148.5° Heading: 142.4°

Feather Angle: -2.7 degrees Ave. Cable Noise: 1.419 uB

Bad Traces: 307, 308, 426, 438 WEAK, POOR RESPONSE.

Cable Depths At EOL:

10 <u>20.4</u>	9 <u>17.1</u>	8 <u>14.0</u>	7 <u>12.2</u>	6 <u>11.9</u>	5 <u>12.2</u>	4 <u>12.2</u>	3 <u>12.2</u>	2 <u>12.2</u>	1 <u>12.2</u>
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Offset: 192.9 Meters (Centre Source to Center Near Group)

Weather Conditions> Wind: NNW 12-14 knts. Seas: 3 ft.

Spread: 87 Meters

Gun Status Array Volume: 6800 cu.in. Array Pressure: 1950 p.s.i

Gun Off	1	13	18	41	53	14											
Gun On	CH1 5A	CH13 15A	CH61 15	CH45 45A		CH64 56											

Navigation Primary: ARGO ✓ Secondary: SYL / ARGO x

Syledis Herschel Garry Pitt Komakuk

Argo Pitt Garry W King

Coordinates at EOL: 69 09 02.41 N
137 53 24.24 W

Comments:

1/ FROM END OF STREAMER TENDED DEEP FOR MAJORITY OF LINE.

BIRD #10 STARTED TENDING DEEPER @ SP 865

BIRD #10 CONSIDERABLY DEEPER LAST 5KM BIRD #9 ALSO DEEP FOR THIS PORTION.

2/ 7 BIR REC-RAS IN 30 SP RANGE 1652-1673

LINE CONSIDER COMPLETE / PROCESS WITH CLIENT REQS APPROVAL TOTAL SP = 1689 = 84.45Km