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(1 OF 8)
GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE
OTTAWA

LINE 3A
S.P. 905 TO 1315

Energie, Mines et Ressources Canada | Energy, Mines and Resources Canada | Commission géologique du Canada / Geological Survey of Canada

INSTITUTE OF SEDIMENTARY & PETROLEUM GEOLOGY
BEAUFORT LITHOPROBE 1987

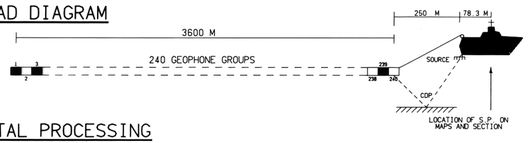
1 DEGREES — DIRECTION SHOT

FINAL STACK

FIELD DATA

VESSEL	:	M/V GSI EXPLORER
SHOT BY	:	GEOPHOTO LTD.
NAVIGATION SYSTEM	:	PRIMARY SYSTEM - GPS SECONDARY SYSTEM - ARGO
DATE SHOT	:	AUGUST - OCTOBER 1987
DATA TYPE	:	SEISMIC REFLECTION
RECORDING FORMAT	:	240 CHANNEL TRACE SEQUENTIAL RECORDER
RECORDING DENSITY	:	6250 B.P.I.
SAMPLE PERIOD	:	4 MS.
RECORD LENGTH	:	20 S.
GAIN CONTROL MODE	:	IFP
RECORDING FILTERS	:	LOW CUT 8 HZ @ 18 DB/OCTAVE HIGH CUT 64 HZ @ 72 DB/OCTAVE
TAPE POLARITY	:	NORMAL
SEISMIC SOURCE	:	AIRGUN ARRAY (2000 P.S.I./ 51.2 MS DELAY)
AVERAGE SOURCE DEPTH	:	12.5 METRES
CABLE LENGTH/AVG DEPTH	:	3600 METRES/12.5 METRES
NUMBER OF GROUPS	:	240
GEOPHONE TYPE	:	T.I. ACCELERATION CANCELLING
GEOPHONES PER GROUP	:	40
NORMAL GROUP INTERVAL	:	15 METRES
SHOTPOINT INTERVAL	:	60 METRES
MULTIPLICITY	:	30 FOLD
AVERAGE NEAR GROUP OFFSET	:	250 METERS
FATHOMETER	:	SIMRAD /1480 M/SEC /DRAFT CORRECTED

SPREAD DIAGRAM



DIGITAL PROCESSING

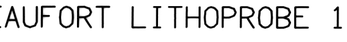
DEMULTIPLEX	:	PROCESSED TO 15976 MS
DECIMATED MIX	:	TRACES MIXED 2 ON 1 EVENLY WEIGHTED
PRE DECONVOLUTION MUTE	:	MUTING OF FIRST BREAK ENERGY
TRUE AMPLITUDE RECOVERY	:	EXPONENTIAL GAIN RECOVERY 6 DB/SEC. 0 - 3000 MS SPHERICAL DIVERGENCE APPLIED
VELOCITY FILTER (COMMON SHOT)	:	MAX FREQ = 120 HZ/DIP ZONE = 12 TO -6 MS/TR
DESIGNATURE (COMMON SHOT)	:	STANDARD MODE
VELOCITY FILTER (COMMON RECEIVER)	:	MAX FREQ = 120 HZ/DIP ZONE = 24 TO -12 MS/TR
DECONVOLUTION	:	1 X ZW2 GAP = ZW DATUM = WATER BOTTOM
EQUALIZATION	:	14000 MS DESIGN GATES
VELOCITY ANALYSIS	:	VELSCAN EVERY 3 KM FOR NEAR SURFACE STACKING FUNCTIONS. VELOCITIES FOR DEEPER SECTION VARIFIED BY SCIENTIFIC AUTHORITY
STATICS	:	STREAMER/SHOT
NORMAL MOVEOUT CORRECTIONS	:	SEE STACK SECTION HEADER FOR VELOCITIES USED
COMMON DEPTH POINT STACK	:	30 FOLD/TYPE = DIVERSITY POWER
DECONVOLUTION	:	1 X 1000 MS . GAP = 48 AUTO CORR START/END TIMES = -30/11000 MS DATUM = WATER BOTTOM
TIME/SPACE VARIANT FILTER	:	FREQUENCIES (HZ) TIME (MS) DATUM = SURFACE 4. 8/40.50 0 4. 8/35.45 3500 4. 8/20.30 9000 6.10/20.30 13000
TIME/SPACE VARIANT SCALING	:	TYPE/START TIME = SQRTTVS/-30 MS GATE LENGTH = 200 MS DATUM = WATER BOTTOM
TIME/SPACE VARIANT SCALING	:	TYPE/START TIME = FLATTVS/-30 MS GATE LENGTH= 500.750.1000.1500.2000.2000.10000 MS DATUM = WATER BOTTOM
RUNNING MIX	:	5 : 1 : EVENLY WEIGHTED
DECIMATION	:	EVERY THIRD TRACE DISPLAYED

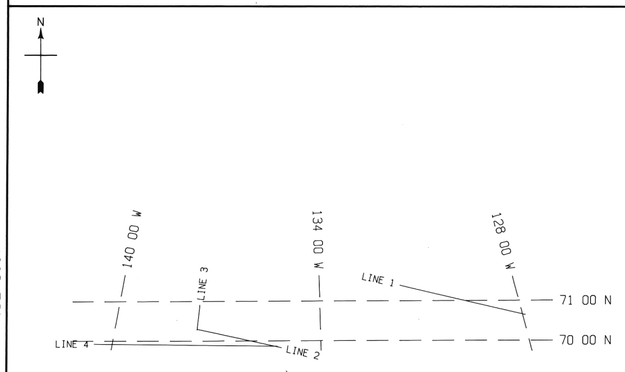
DISPLAY

HORIZONTAL SCALE - 22.200 TR/CM 22.222 TR/KM
VERTICAL SCALE - 2.50 CM/SEC
POLARITY - NORMAL
TRACE TYPE. BIAS - WTVAR. 0 PERCENT
DATUM - SEA LEVEL
DISPLAY UNIT - 0.457571 CM

DISPLAY GAIN
AVGABS

CDP	1881	
INPUT DB	GAIN DB	TIME MSEC
55.9	-80.0	2250





This map has been reprinted from a scanned version of the original map. Reproduction par numérisation d'une carte sur papier.

CANADIAN BEAUFORT LITHOPROBE

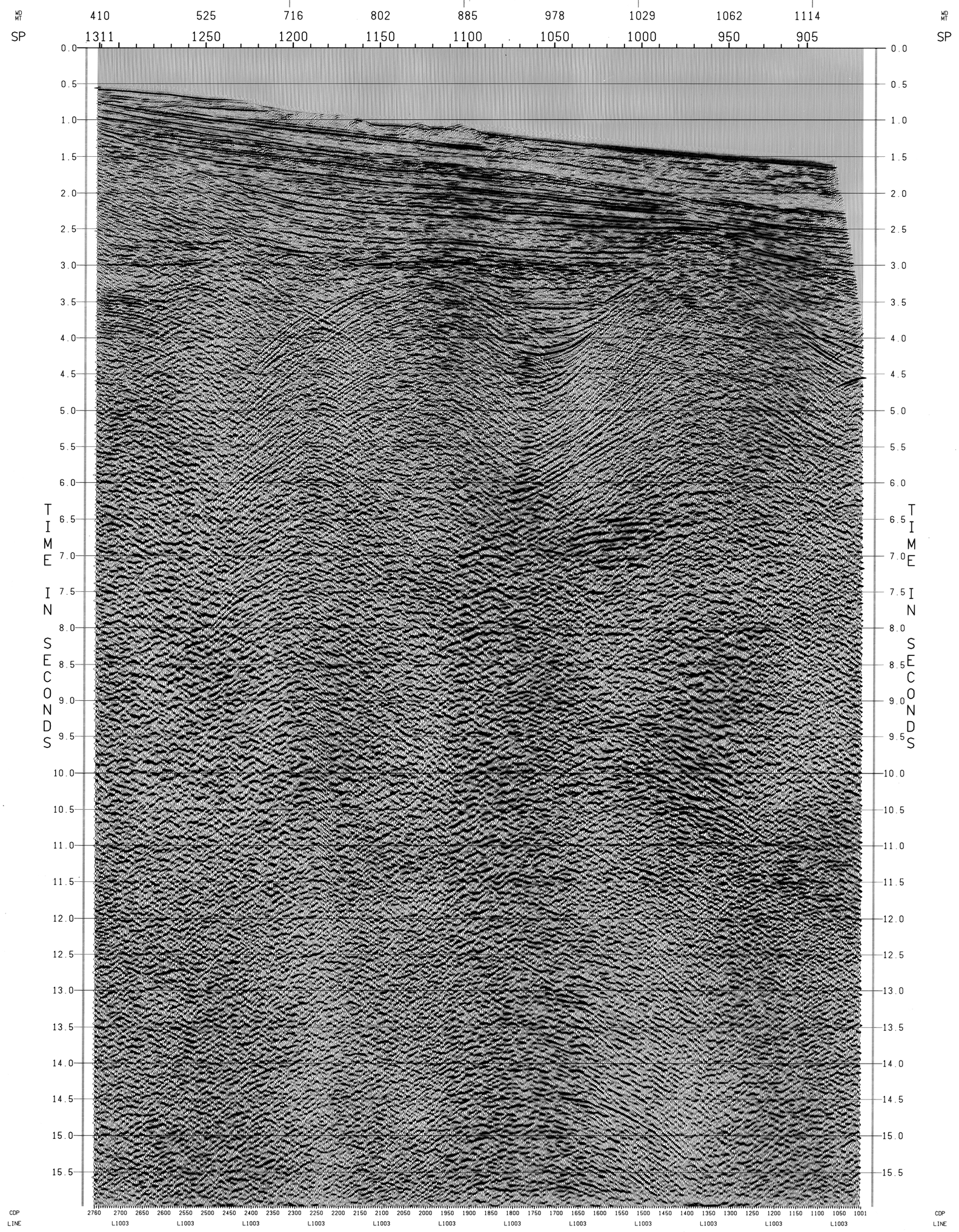
31 MAR 1988
17:51:46

PARTY 999

GEOPHYSICAL SERVICE INCORPORATED

PROCESSING CHECKED BY -

CDP SPN	2321 1202		CDP SPN	1921 1102		CDP SPN	1521 1002		CDP SPN	1121 NULL	
TIME MSEC	VRMS MT/SEC	INTVEL MT/SEC	TIME MSEC	VRMS MT/SEC	INTVEL MT/SEC	TIME MSEC	VRMS MT/SEC	INTVEL MT/SEC	TIME MSEC	VRMS MT/SEC	INTVEL MT/SEC
0	1480		0	1480		0	1480		0	1480	
966	1480	1480	1195	1480	1480	1415	1480	1480	1509	1480	1480
1136	1537	1828	1403	1530	1781	1681	1538	1816	1843	1526	1719
1399	1612	1903	1730	1618	1952	1934	1593	1861	2254	1574	1774
1675	1688	2030	1965	1648	1854	2209	1630	1940	2486	1613	1954
1989	1786	2239	2235	1709	2101	2539	1689	2041	2733	1667	2152
2272	1859	2307	2592	1790	2232	2831	1754	2242	2998	1740	2344
2705	1956	2600	2992	1898	2487	3201	1866	2566	3395	1841	2536
3137	2102	3103	3390	2021	2777	3590	2011	2935	3776	1971	2799
3801	2444	4220	3916	2223	3236	4105	2293	3717	4272	2220	3588
4210	2772	4319	4431	2489	3857	4906	2496	3768	4752	2492	4198
4697	2970	4544	4965	2735	4356	5185	2688	4172	5311	2814	4738
5229	3186	5067	5447	2961	4694	5655	2847	5040	5859	3058	4821
6100	3501	6000	6250	3301	5034	6400	3181	6003	6550	3350	5205
7600	4116	6003	7750	3970	6003	7900	3878	6998	8050	3980	6001
9100	4482	6999	9250	4364	7000	9400	4287	7005	9550	4360	6998
10600	4917	7002	10750	4819	7000	10900	4754	7002	11050	4804	7005
12100	5221	8001	12250	5136	8002	12400	5079	8002	12550	5117	8001
16000	6018		16000	5933		16000	5865		16000	5860	



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