LINE AGC90-1

S.P. 101 TO 7484

ATLANTIC GEOSCIENCE CENTRE

PROSPECT: LABRADOR TRANSIT

1990

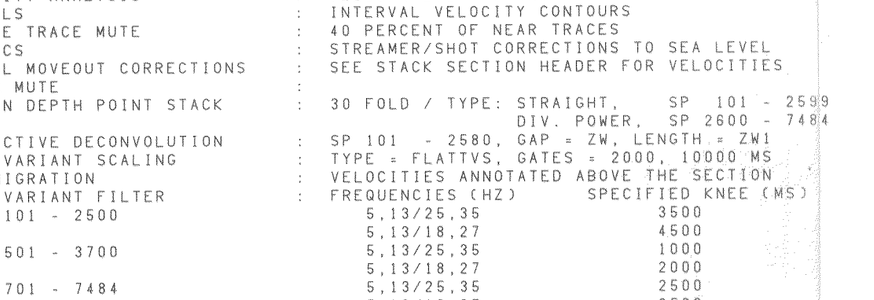
67 DEGREES → DIRECTION SHOT

F-K MIGRATION

FIELD DATA

DATA COLLECTED BY	:	M/V FRED J. AGNICH
DATE COLLECTED	:	OCTOBER 1990
SURVEY SYSTEM	:	PRIMARY - TRANSIT SECONDARY - G.P.S.
RECORDING SYSTEM	:	DFS V - 120 TRACE
RECORDING FORMAT	:	SEG B, 9 TRACK
RECORDING DENSITY	:	6250 BPI
RECORDING LENGTH	:	20.0 /21.0 S
RECORDING FILTER	:	HIGH CUT - 90 HZ AT 72 DB/OCT
		LOW CUT - 5.3 HZ AT 18 DB/OCT
GAIN CONTROL	:	I.F.P.
SAMPLE PERIOD	:	4 MS
POLARITY	:	POSITIVE PRESSURE RECORDED AS A POSITIVE NUMBER; SEG REVERSED
SEISMIC SOURCE	:	TUNED AIRGUN ARRAY (7002 CU. IN.)
AVERAGE SOURCE DEPTH	:	13 M
SOURCE DELAY	:	51.2 MS
CABLE LENGTH	:	3000 M
AVERAGE CABLE DEPTH	:	12 +/- 2 M
NUMBER OF GROUPS	:	120
GROUP INTERVAL	:	25 M
SHOT INTERVAL	:	50 M
MULTIPLICITY	:	30 FOLD
INLINE SHOT OFFSET	:	255 M

SPREAD DIAGRAM



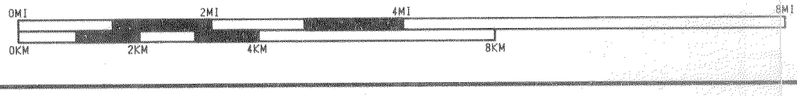
DIGITAL PROCESSING

DEMULTIPLEX	:	PROCESSED TO 20.0 S / 21.0 S
TRUE AMPLITUDE RECOVERY	:	3 DB/SEC APPLIED FROM WATER BOTTOM TO 7 S BELOW
	:	CORRECTION FOR SPHERICAL DIVERGENCE
PRE DECONVOLUTION MUTE	:	MUTING OF FIRST BREAK ENERGY
VELOCITY FILTER (SHOT DOMAIN)	:	DIP ZONE = -5 TO 12 MS / TRACE
DESIGNATURE (SHOT DOMAIN)	:	STANDARD MODE WITH NO INTERNAL SCALING
VELOCITY FILTER (RECEIVER)	:	DIP ZONE =-10 TO 24 MS / TRACE
VELOCITY ANALYSIS	:	VELSCAN EVERY 10 KM
PREDICTIVE DECONVOLUTION	:	SP 101 - 2700, GAP = 48 MS, LENGTH = ZW2
DEMULTIPLE	:	F-K DOMAIN MULTIPLE SUPPRESSION
VELOCITY ANALYSIS	:	VELSCAN EVERY 3 KMS
ISOVELS	:	INTERVAL VELOCITY CONTOURS
INSIDE TRACE MUTE	:	40 PERCENT OF NEAR TRACES
STATICS	:	STREAMER/SHOT CORRECTIONS TO SEA LEVEL
NORMAL MOVEOUT CORRECTIONS	:	SEE STACK SECTION HEADER FOR VELOCITIES
STACK MUTE	:	
COMMON DEPTH POINT STACK	:	30 FOLD / TYPE: STRAIGHT, SP 101 - 2599
		DIV. POWER, SP 2600 - 7484
PREDICTIVE DECONVOLUTION	:	SP 101 - 2580, GAP = ZW, LENGTH = ZW1
TIME VARIANT SCALING	:	TYPE = FLATTVS, GATES = 2000, 10000 MS
F-K MIGRATION	:	VELOCITIES ANNOTATED ABOVE THE SECTION
TIME VARIANT FILTER	:	FREQUENCIES (HZ) SPECIFIED KNEE (MS)
SP 101 - 2500		5,13/25,35 3500
		5,13/18,27 4500
SP 2501 - 3700		5,13/25,35 1000
		5,13/18,27 2000
SP 3701 - 7484		5,13/25,35 2500
		5,13/18,27 3500
		DATUM = WATER BOTTOM
TIME VARIANT SCALING	:	TYPE = SQRTTVS, GATES = 500 MS
TIME VARIANT SCALING	:	TYPE = FLATTVS, GATES = 1000 MS
DISPLAY		EVERY 4TH TRACE DISPLAYED

DISPLAY

HORIZONTAL SCALE	-	20.000 TR/CM 20.000 TR/KM
VERTICAL SCALE	-	2.50 CM/SEC
POLARITY	-	NORMAL
TRACE TYPE, BIAS	-	WTVAR, 0 PERCENT
DATUM	-	SEA LEVEL
DISPLAY UNIT	-	0.634880 CM

DISPLAY GAIN	
INPUT	
CDP	ALL
GAIN DB	TIME MSEC
-86.0	0



F-K MIGRATION

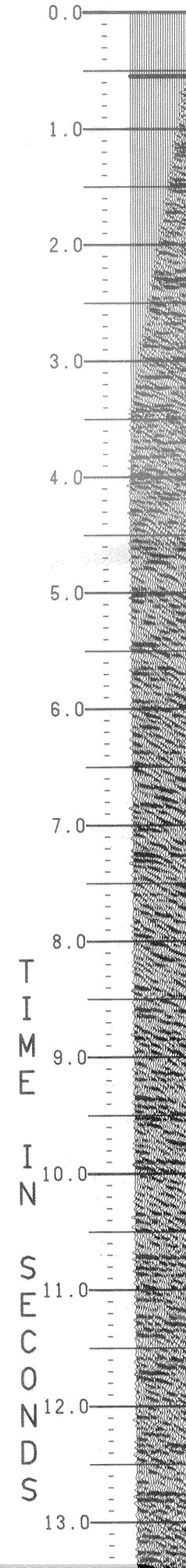
LINE AGC90-1
S.P. 101 TO 7484

X LINES

WD
MT

SP

TIME MSEC
0
529
748
958
1163
1447
2107
3404
5191
7401
9825
12005
14000
16000
19000
21000



LINE AGC90-2

S.P. 101 TO 6474

ATLANTIC GEOSCIENCE CENTRE

PROSPECT: LABRADOR TRANSIT

1990

67 DEGREES

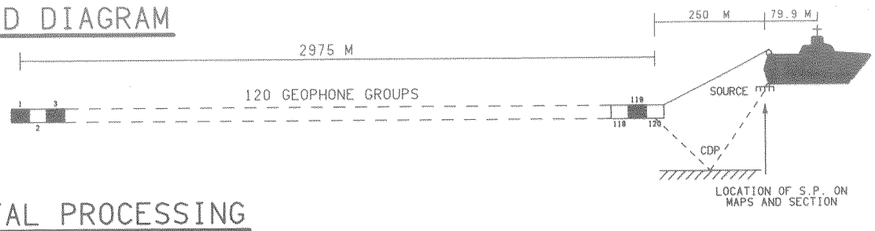
DIRECTION SHOT

F-K MIGRATION

FIELD DATA

DATA COLLECTED BY	:	M/V FRED J. AGNICH
DATE COLLECTED	:	OCTOBER 1990
SURVEY SYSTEM	:	PRIMARY - TRANSIT SECONDARY - G.P.S.
RECORDING SYSTEM	:	DFS V - 120 TRACE
RECORDING FORMAT	:	SEG B, 9 TRACK
RECORDING DENSITY	:	6250 BPI
RECORDING LENGTH	:	20.0 /21.0 S
RECORDING FILTER	:	HIGH CUT - 90 HZ AT 72 DB/OCT LOW CUT - 5.3 HZ AT 18 DB/OCT
GAIN CONTROL	:	I.F.P.
SAMPLE PERIOD	:	4 MS
POLARITY	:	POSITIVE PRESSURE RECORDED AS A POSITIVE NUMBER; SEG REVERSED
SEISMIC SOURCE	:	TUNED AIRGUN ARRAY (7002 CU. IN.)
AVERAGE SOURCE DEPTH	:	13 M
SOURCE DELAY	:	51.2 MS
CABLE LENGTH	:	3000 M
AVERAGE CABLE DEPTH	:	12 +/- 2 M
NUMBER OF GROUPS	:	120
GROUP INTERVAL	:	25 M
SHOT INTERVAL	:	50 M
MULTIPLICITY	:	30 FOLD
INLINE SHOT OFFSET	:	255 M

SPREAD DIAGRAM



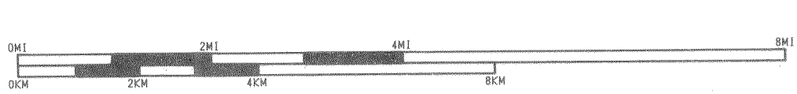
DIGITAL PROCESSING

DEMULTIPLEX	:	PROCESSED TO 20.0 S / 21.0 S
TRUE AMPLITUDE RECOVERY	:	3 DB/SEC APPLIED FROM WATER BOTTOM TO 7 S BELOW CORRECTION FOR SPHERICAL DIVERGENCE
PRE DECONVOLUTION MUTE	:	MUTING OF FIRST BREAK ENERGY
VELOCITY FILTER (SHOT DOMAIN)	:	DIP ZONE = -5 TO 12 MS / TRACE
DESIGNATURE (SHOT DOMAIN)	:	STANDARD MODE WITH NO INTERNAL SCALING
VELOCITY FILTER (RECEIVER)	:	DIP ZONE =-10 TO 24 MS / TRACE
VELOCITY ANALYSIS	:	VELSCAN EVERY 10 KM
DEMULTIPLE	:	F-K DOMAIN MULTIPLE SUPPRESSION
VELOCITY ANALYSIS	:	VELSCAN EVERY 3 KMS
ISOVELS	:	INTERVAL VELOCITY CONTOURS
INSIDE TRACE MUTE	:	40 PERCENT OF NEAR TRACES
STATICS	:	STREAMER/SHOT CORRECTIONS TO SEA LEVEL
NORMAL MOVEOUT CORRECTIONS	:	SEE STACK SECTION HEADER FOR VELOCITIES
STACK MUTE	:	
COMMON DEPTH POINT STACK	:	30 FOLD / TYPE: DIV. POWER, SP 101 - 6474
TIME VARIANT SCALING	:	TYPE = FLATTVS, GATES = 2000, 10000 MS
F-K MIGRATION	:	50 PERCENT OF THE INTERVAL VELOCITIES
TIME VARIANT FILTER	:	FREQUENCIES (HZ) SPECIFIED KNEE (MS) 5,13/25,35 2500 5,13/18,27 3500 DATUM = WATER BOTTOM
TIME VARIANT SCALING	:	TYPE = SQRTTVS, GATES = 500 MS
TIME VARIANT SCALING	:	TYPE = FLATTVS, GATES = 1000 MS
DISPLAY		EVERY 4TH TRACE DISPLAYED

DISPLAY

HORIZONTAL SCALE	-	20.000 TR/CM 20.000 TR/KM
VERTICAL SCALE	-	2.50 CM/SEC
POLARITY	-	NORMAL
TRACE TYPE, BIAS	-	WTVAR, 0 PERCENT
DATUM	-	SEA LEVEL
DISPLAY UNIT	-	0.634880 CM

DISPLAY GAIN	
INPUT	
CDP	ALL
GAIN DB	TIME MSEC
-86.0	0



N

CDP SPN	
TIME MSEC	VRMS MT/SEC
0	1480
4455	1480
4903	1506
5313	1549
5757	1593
6277	1650
6763	1703
7223	1771
7721	1837
8037	1886
8434	1972
9815	2365
12000	2739
14000	2954
16000	3106
19000	3265
21000	3343

X LINES

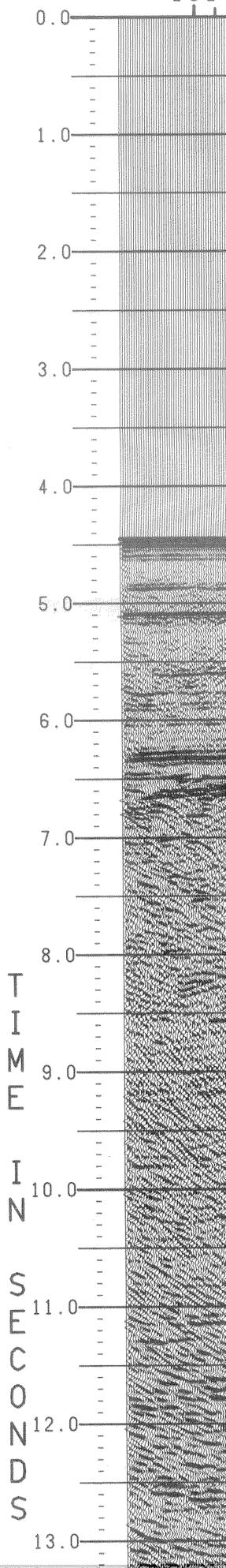
WD MT

SP

AGC90-
SPN 745

3294

101



F-K MIGRATION

LINE AGC90-2
S.P. 101 TO 6474

LINE AGC90-3

S.P. 101 TO 5415

ATLANTIC GEOSCIENCE CENTRE

PROSPECT: LABRADOR TRANSIT

1990

67 DEGREES

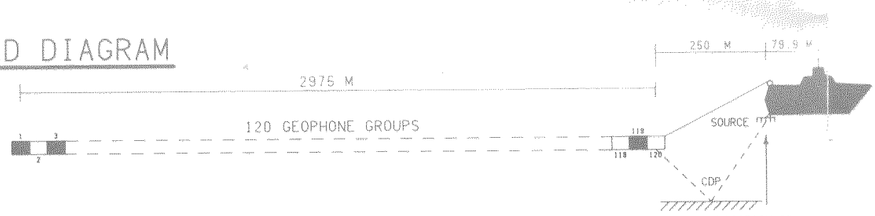
DIRECTION SHOT

F-K MIGRATION

FIELD DATA

DATA COLLECTED BY	:	M/V FRED J. AGNICH
DATE COLLECTED	:	OCTOBER 1990
SURVEY SYSTEM	:	PRIMARY - TRANSIT SECONDARY - G.P.S.
RECORDING SYSTEM	:	DFS V - 120 TRACE
RECORDING FORMAT	:	SEG B, 9 TRACK
RECORDING DENSITY	:	6250 BPI
RECORDING LENGTH	:	20.0 /21.0 S
RECORDING FILTER	:	HIGH CUT - 90 HZ AT 72 DB/OCT
		LOW CUT - 5.3 HZ AT 18 DB/OCT
GAIN CONTROL	:	I.F.P.
SAMPLE PERIOD	:	4 MS
POLARITY	:	POSITIVE PRESSURE RECORDED AS A POSITIVE NUMBER; SEG REVERSED
SEISMIC SOURCE	:	TUNED AIRGUN ARRAY (7002 CU. IN.)
AVERAGE SOURCE DEPTH	:	13 M
SOURCE DELAY	:	51.2 MS
CABLE LENGTH	:	3000 M
AVERAGE CABLE DEPTH	:	12 +/- 2 M
NUMBER OF GROUPS	:	120
GROUP INTERVAL	:	25 M
SHOT INTERVAL	:	50 M
MULTIPLICITY	:	30 FOLD
INLINE SHOT OFFSET	:	255 M

SPREAD DIAGRAM



DIGITAL PROCESSING

DEMULTIPLEX	:	PROCESSED TO 20.0 S / 21.0 S
TRUE AMPLITUDE RECOVERY	:	3 DB/SEC APPLIED FROM WATER BOTTOM TO 7 S
	:	CORRECTION FOR SPHERICAL DIVERGENCE
PRE DECONVOLUTION MUTE	:	MUTING OF FIRST BREAK ENERGY
VELOCITY FILTER (SHOT DOMAIN)	:	DIP ZONE = -5 TO 12 MS / TRACE
DESIGNATURE (SHOT DOMAIN)	:	STANDARD MODE WITH NO INTERNAL SCALING
VELOCITY FILTER (RECEIVER)	:	DIP ZONE =-10 TO 24 MS / TRACE
VELOCITY ANALYSIS	:	VELSCAN EVERY 10 KM
PREDICTIVE DECONVOLUTION	:	SP 4820 - 5412, GAP = ZW, LENGTH = ZW1
DEMULTIPLE	:	F-K DOMAIN MULTIPLE SUPPRESSION
VELOCITY ANALYSIS	:	VELSCAN EVERY 3 KMS
ISOVELS	:	INTERVAL VELOCITY CONTOURS
INSIDE TRACE MUTE	:	40 PERCENT OF NEAR TRACES
STATICS	:	STREAMER/SHOT CORRECTIONS TO SEA LEVEL
NORMAL MOVEOUT CORRECTIONS	:	SEE STACK SECTION HEADER FOR VELOCITIES
STACK MUTE	:	
COMMON DEPTH POINT STACK	:	30 FOLD / TYPE : DIV. POWER, SP 101 - 4830
		STRAIGHT, SP 4831 - 5415
PREDICTIVE DECONVOLUTION	:	SP 4830 - 5412, GAP = ZW, LENGTH = ZW1
TIME VARIANT SCALING	:	TYPE = FLATTVS, GATES = 2000, 10000 MS
F-K MIGRATION	:	50 PERCENT OF THE INTERVAL VELOCITIES
TIME VARIANT FILTER	:	FREQUENCIES (HZ) SPECIFIED KNEE (MS)
SP 101 - 4550		5,13/25,35 2500
		5,13/18,27 3500
SP 4551 - 5412		5,13/25,35 1500
		5,13/18,27 2500
		DATUM = WATER BOTTOM
TIME VARIANT SCALING	:	TYPE = SQRTTVS, GATES = 500 MS
TIME VARIANT SCALING	:	TYPE = FLATTVS, GATES = 1000 MS
DISPLAY		EVERY 4TH TRACE DISPLAYED

DISPLAY

HORIZONTAL SCALE	-	20.000 TR/CM 20.000 TR/KM
VERTICAL SCALE	-	2.50 CM/SEC
POLARITY	-	NORMAL
TRACE TYPE, BIAS	-	WTVAR, 0 PERCENT
DATUM	-	SEA LEVEL
DISPLAY UNIT	-	0.634880 CM

DISPLAY GAIN	
INPUT	
CDP	
GAIN DB	TIME MSEC
-86.0	0

N

F-K MIGRATION

LINE AGC90-3
S.P. 101 TO 5415

TIME MSEC	MT
0	
4449	
4755	
5031	
5395	
5767	
6183	
6645	
7065	
7569	
8091	
9673	
12000	
14000	
16000	
19000	
21000	

X LINES

WD MT

SP

AGC
SPN

32

1

0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
12.0
13.0

TIME IN SECONDS