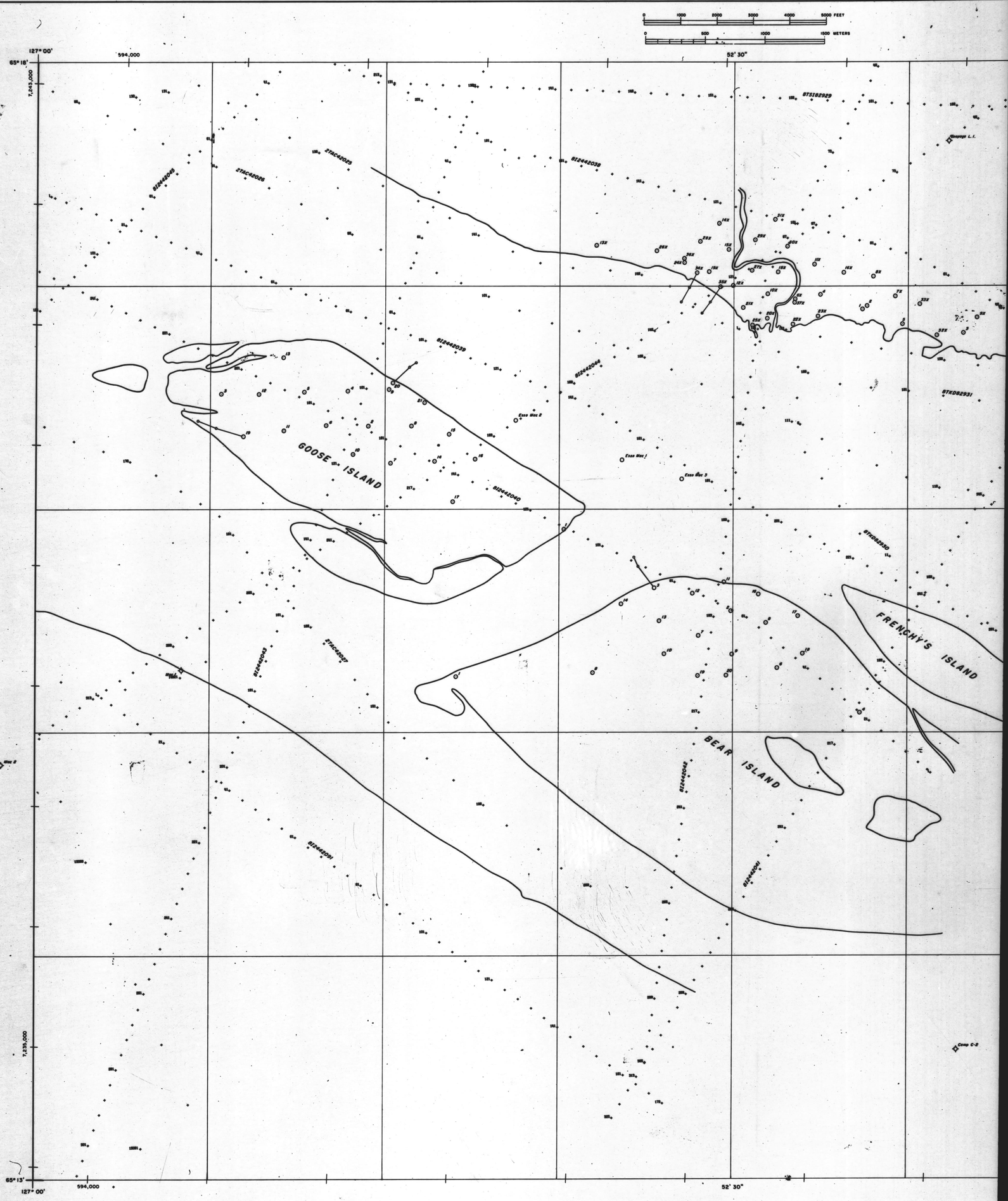
PROSPECT STUDY MAP 1:10,000

NORMAN WELLS

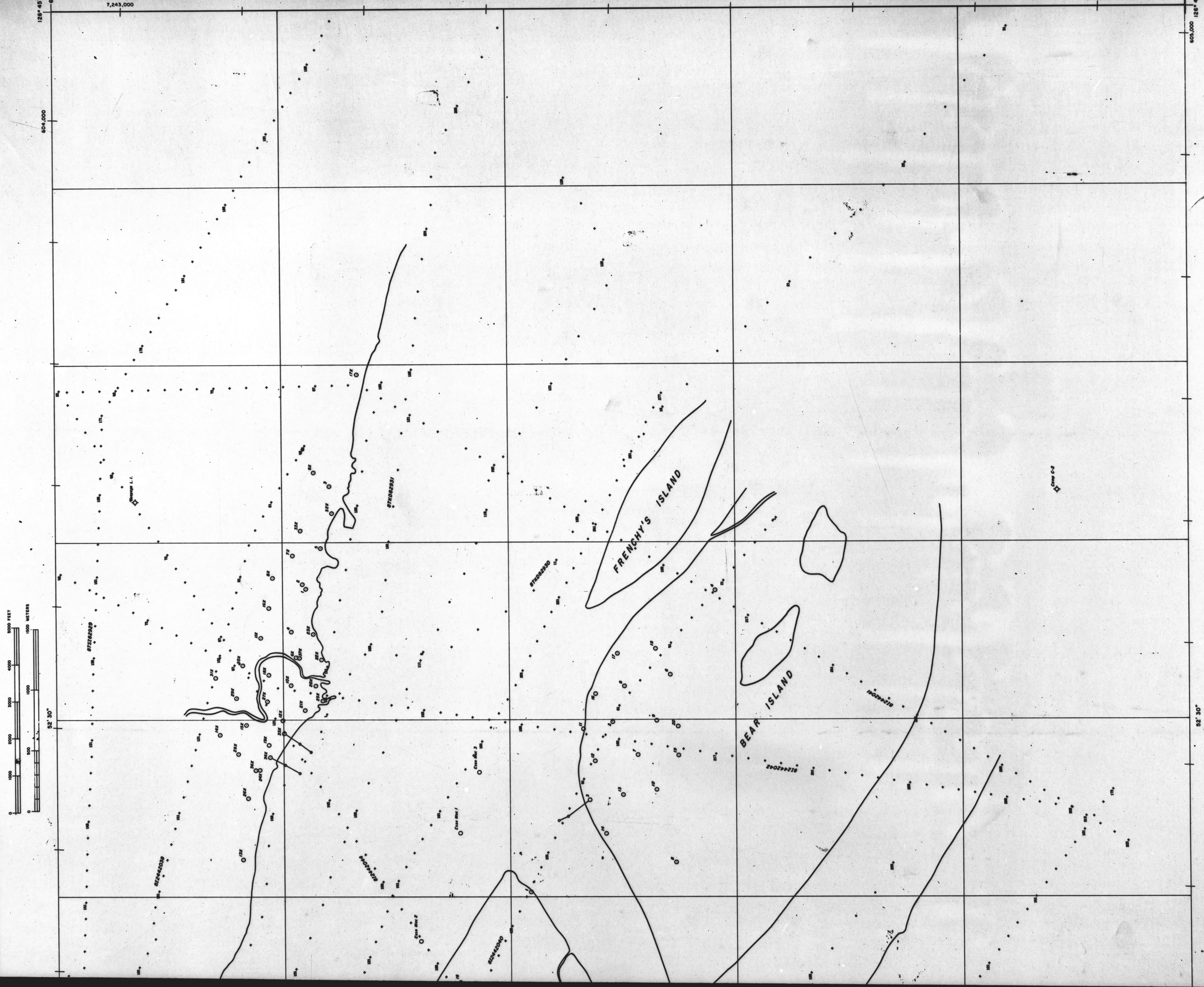


76-5-78-1

76-5-78-1

NNE

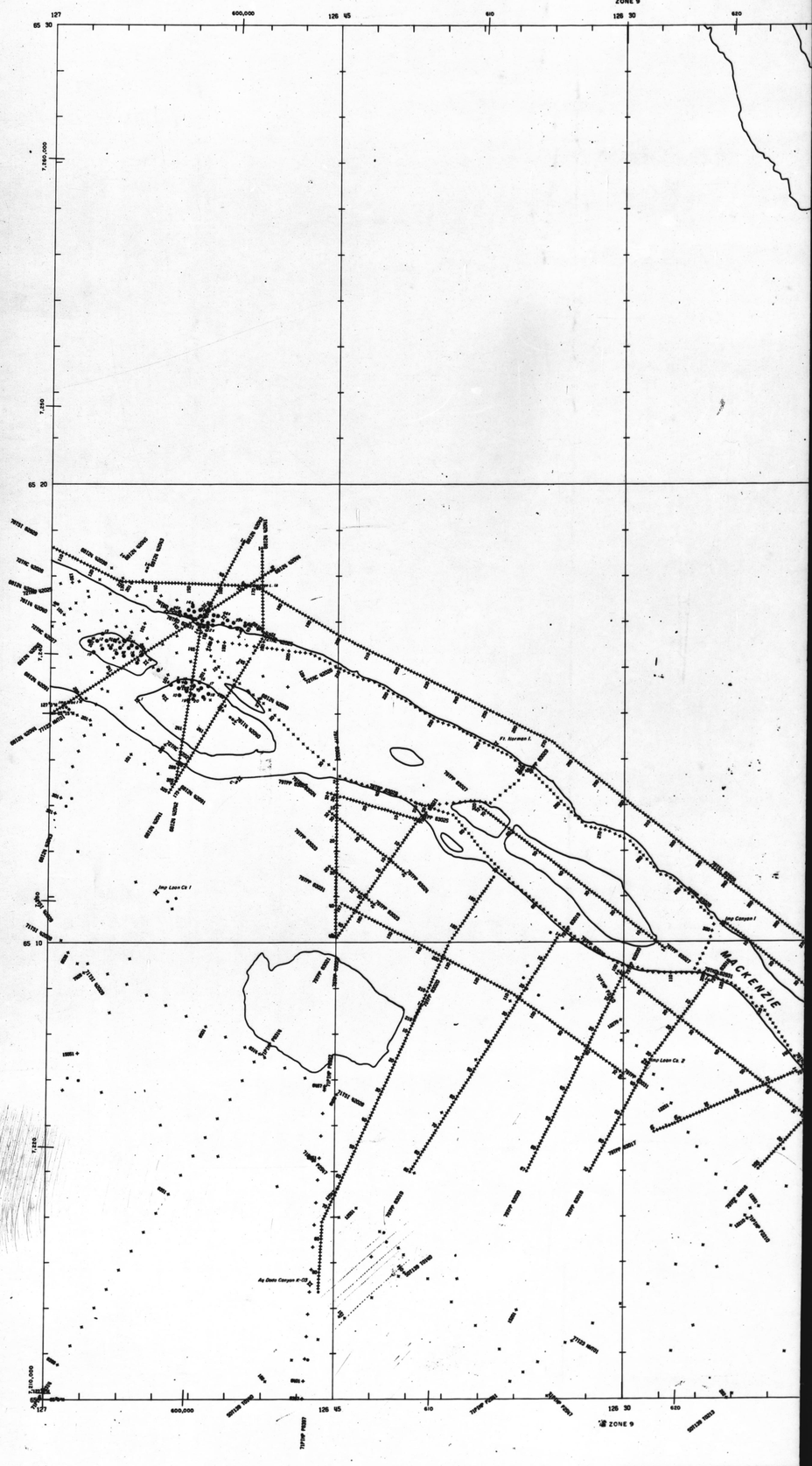
IMPERIAL OIL LIMITED
BEAUFORT EXPLORATION DISTRICT
CALGARY ALBERTA CANADA



2075 E SE-1 5

2075 E SE	PROSPECT STUDY MAP 1:62,500
	NORMAN E SE

MAP CONTENT		
1	BASE BASIC	6/78
5	WELLS	11/78
	Spudd's	3/79

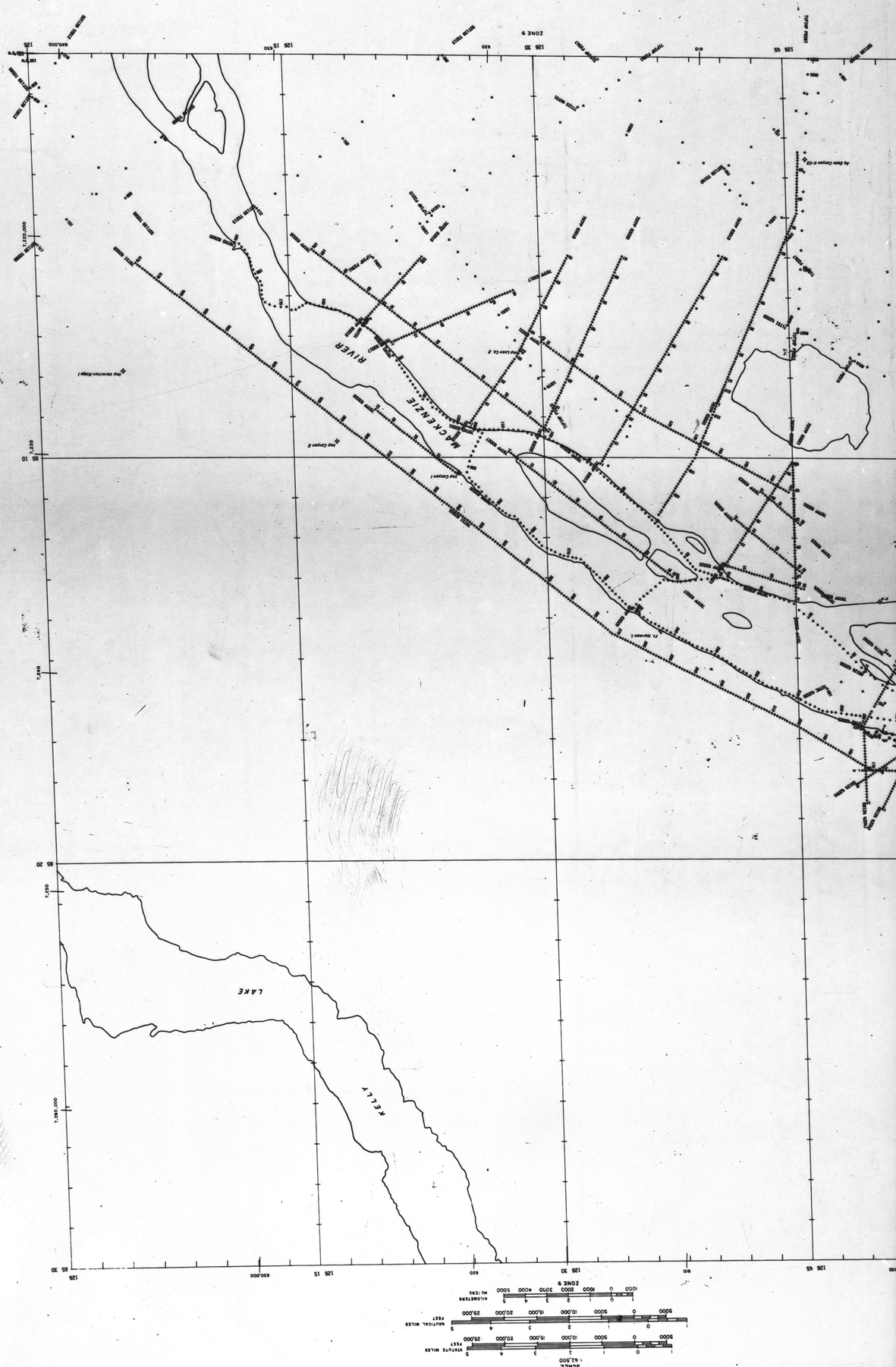


TRANSVERSE MERCATOR PROJECTION

MARGINAL CO-ORDINATES INDICATE 10,000 METERS
SIX DEGREE UNIVERSAL TRANSVERSE MERCATOR (UTM) GRID
MAP FALLS WHOLLY WITHIN UTM GRID ZONE 9
WITH CENTRAL MERIDIAN AT 126° WEST LONGITUDE
FALSE EASTING FOR EACH CENTRAL MERIDIAN
IS 500,000 METERS

2075 E SE	PROSPECT STUDY MAP 1:62,500
	NORMAN E SE

76-5-78-12



INDEX MAP

2074 RICHARDSON	2075 NORMAN

MAP ISSUED

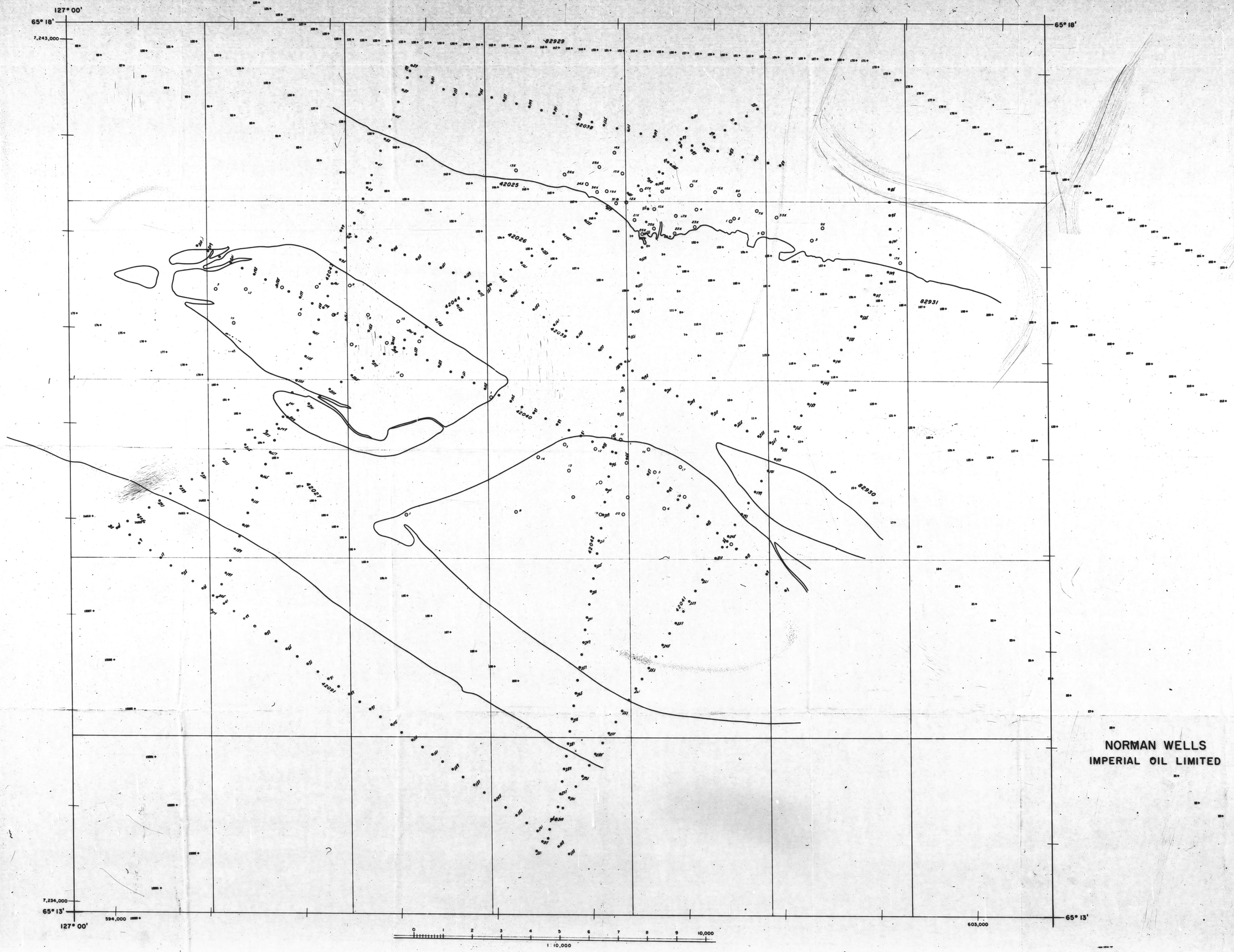
IMPERIAL OIL LIMITED
BEAUFORT EXPLORATION DISTRICT
CALGARY ALBERTA CANADA

2075 E SE	NORMAN	E SE

PROSPECT STUDY MAP 1:62,500

1-65-16-1

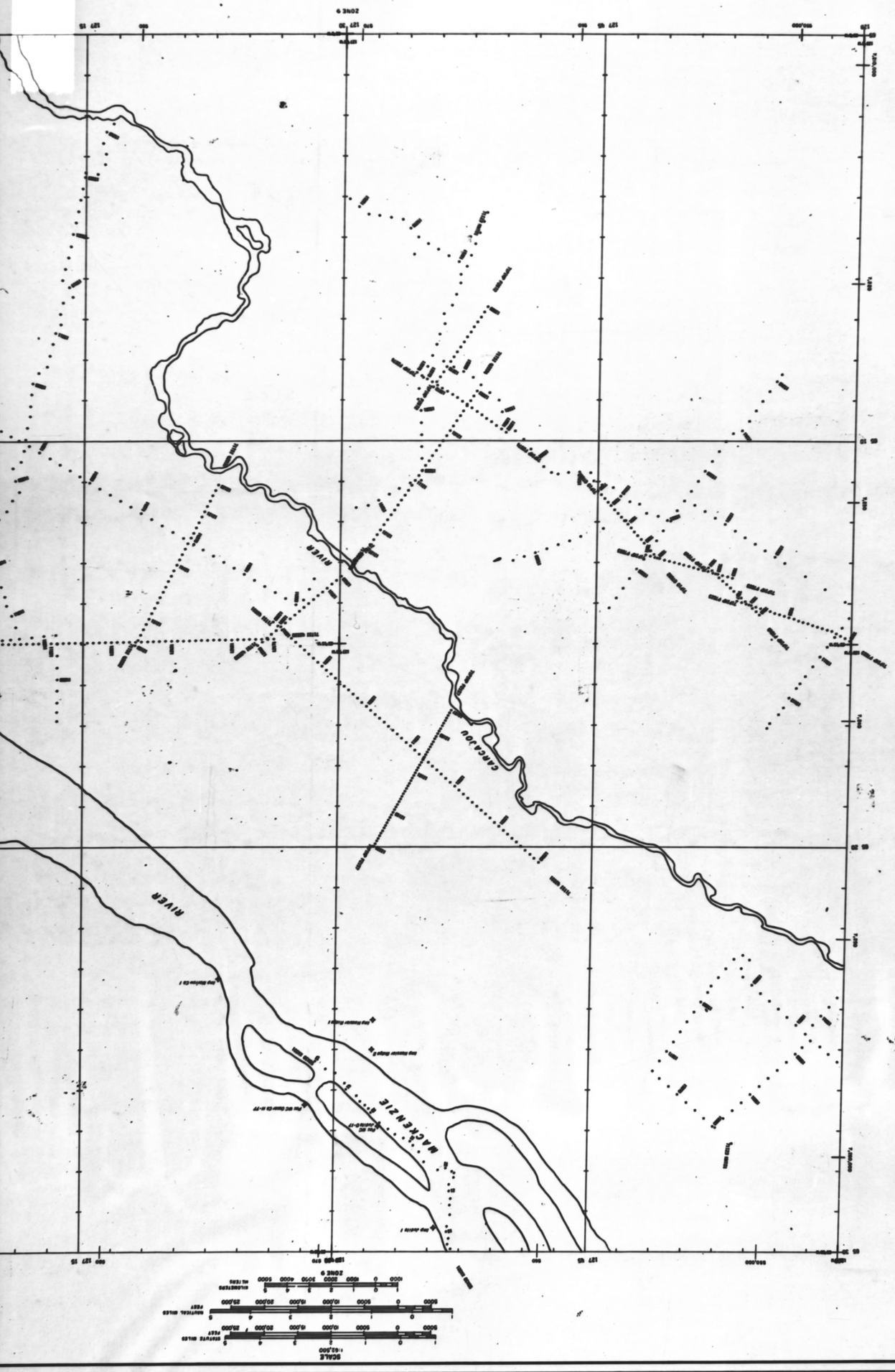
76-5-28-1



NORMAN WELLS
IMPERIAL OIL LIMITED

007-06-05-328

76-5-78-13



TRANSVERSE MERCATOR PROJECTION
HORIZONTAL CO-ORDINATES INDICATE 10,000 METRES
BY GRIDS UNIVERSAL TRANSVERSE MERCATOR (UTM) GRID
NAD PULLS UNIQUELY 3-TWO UTM GRID ZONE 6
NORTH CENTRAL BEGINNING AT 120° WEST LONGITUDE
BLUE TAPERS FOR EACH CENTRAL MERIDIAN
TO 500,000 METRES

PROSPECT STUDY MAP 1:62,500	
2075 E SW	NORMAN E SW

MAP CONTENT

1	BASE BASIC	8/76
5	WELLS	

2075 E SW	NORMAN E SW
PROSPECT STUDY MAP 1:62,500	

SCALE 1:62,500

SURVEYS MILES FEET

SURVEYS MILES FEET

KILOMETRES METRES

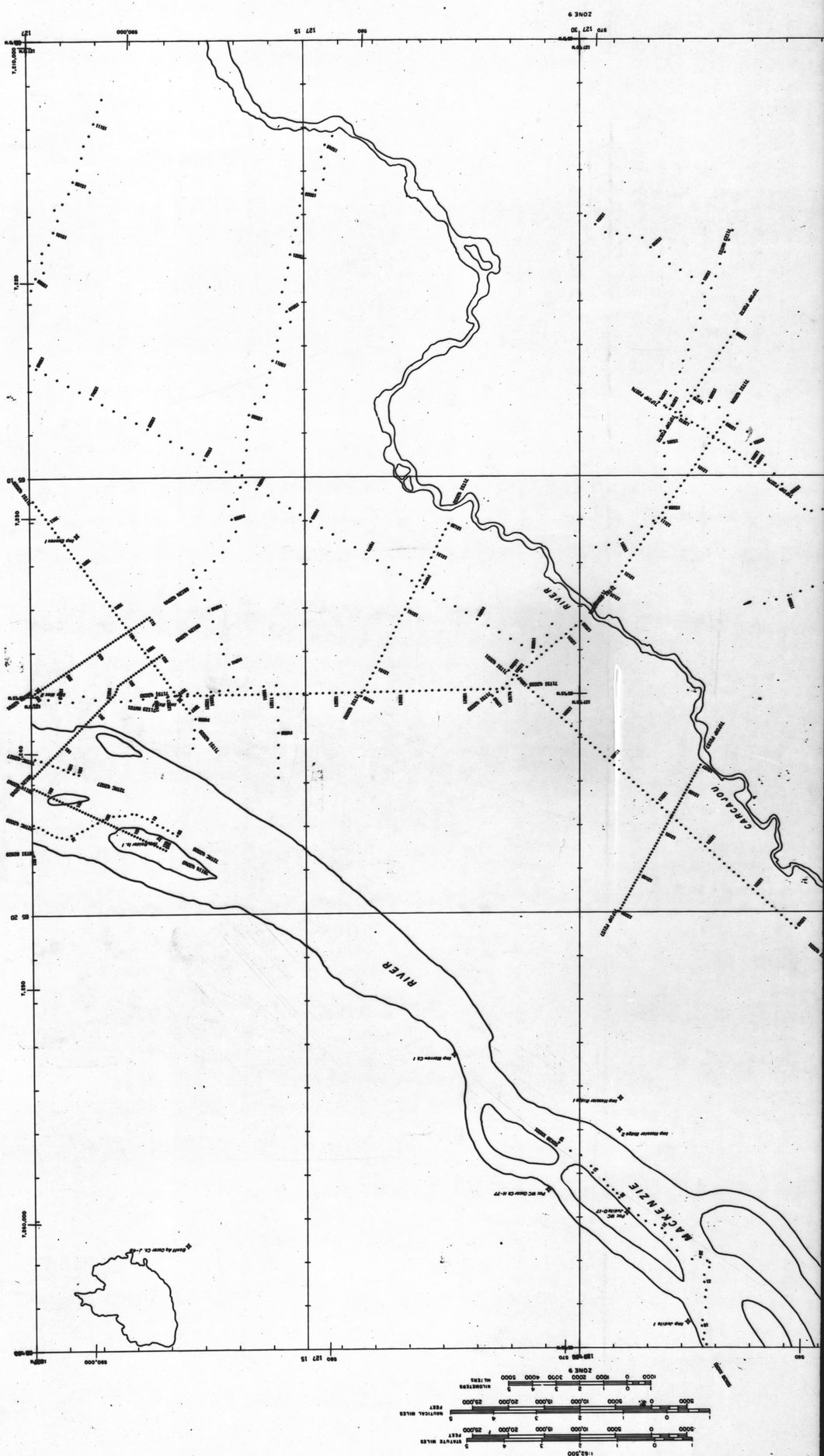
ZONE 9

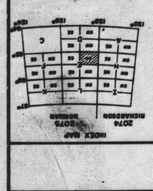
2075 E SW-1 5

IMPERIAL OIL LIMITED
BEAUFORT EXPLORATION DISTRICT
CALGARY ALBERTA CANADA

2075 E SW | NORMAN | E SW

PROSPECT STUDY MAP 1:62,500





MAP ISSUED

76-5-78-113

78 I24 42091 WDBNRSK1
78-09-26 PROPRIETARY

78-I24-42091

1 MILE =

SP. **IMPERIAL OIL LTD.** SP.
GEOPHYSICS. DATA PROCESSING
CALGARY. ALBERTA

LINE [illegible] AREA [illegible]
PART [illegible] DATE [illegible]

FIELD RECORDING - LAND

CONTRACTOR [illegible] PTY NO. [illegible]
DATE SHOT [illegible]

ENERGY SOURCE

TYPE [illegible]
ARRAY [illegible] LENGTH
SHOT INTERVAL [illegible] FT

SURVEY LOCATION

START OF LINE [illegible]
DIRECTION OF SHOOTING

GEOPHONES

TYPE [illegible] NO. GROUPS [illegible]
GEOPHONES/GROUP [illegible] GROUP INTERVAL [illegible] FT
ARRAY [illegible] LENGTH [illegible] FT
[illegible] SP [illegible]
[illegible]
RECORDING CONFIGURATION [illegible]
DISTANCES IN [x] FEET [ ] METRES

RECORDING INSTRUMENTS

SYSTEM [illegible] NO. CHANNELS [illegible]
FORMAT [illegible] GAIN TYPE [illegible]
RECORD LENGTH [illegible] SEC. SAMPLE RATE [illegible] MS.
RECORD FILTERS LO [illegible] HZ SLOPE [illegible] DB/OCTAVE
HI [illegible] HZ SLOPE [illegible] DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS [illegible] VALUES

PROCESSING SEQUENCE

[1] DEMULT
[2] DATUM [illegible] DATUM VEL. [illegible] FT./SEC.
[3] STATICS: [illegible]
[ ] STATICS:
[4] GAIN: [ ] EXPONENTIAL [ ] GEOCOR
[illegible]
[ ] VERTICAL SUMMATION ____ TO 1
[ ] HORIZONTAL SUMMATION ____ TO 1
[ ] BIMATION TO ____ MS.
[5] DECON BEFORE STACK: [illegible]
OPERATOR LENGTH [illegible] MS.
DESIGN GATE [illegible] MS.
[6] FILTER: [illegible]
[7] VELOCITY ANALYSIS: [illegible]
[8] NMO
[9] [illegible] FOLD COP STACK. SB INTERVAL [illegible] FT
[ ] DECON AFTER STACK:
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
[ ] FILTER:
[9] [illegible]
[ ]
[ ]
[ ]
[ ]
[10] PHASE CORRECTION FILTER
[ ] TRACE NORMALIZE
[20] AGC [illegible] MS.

DISPLAY PARAMETERS

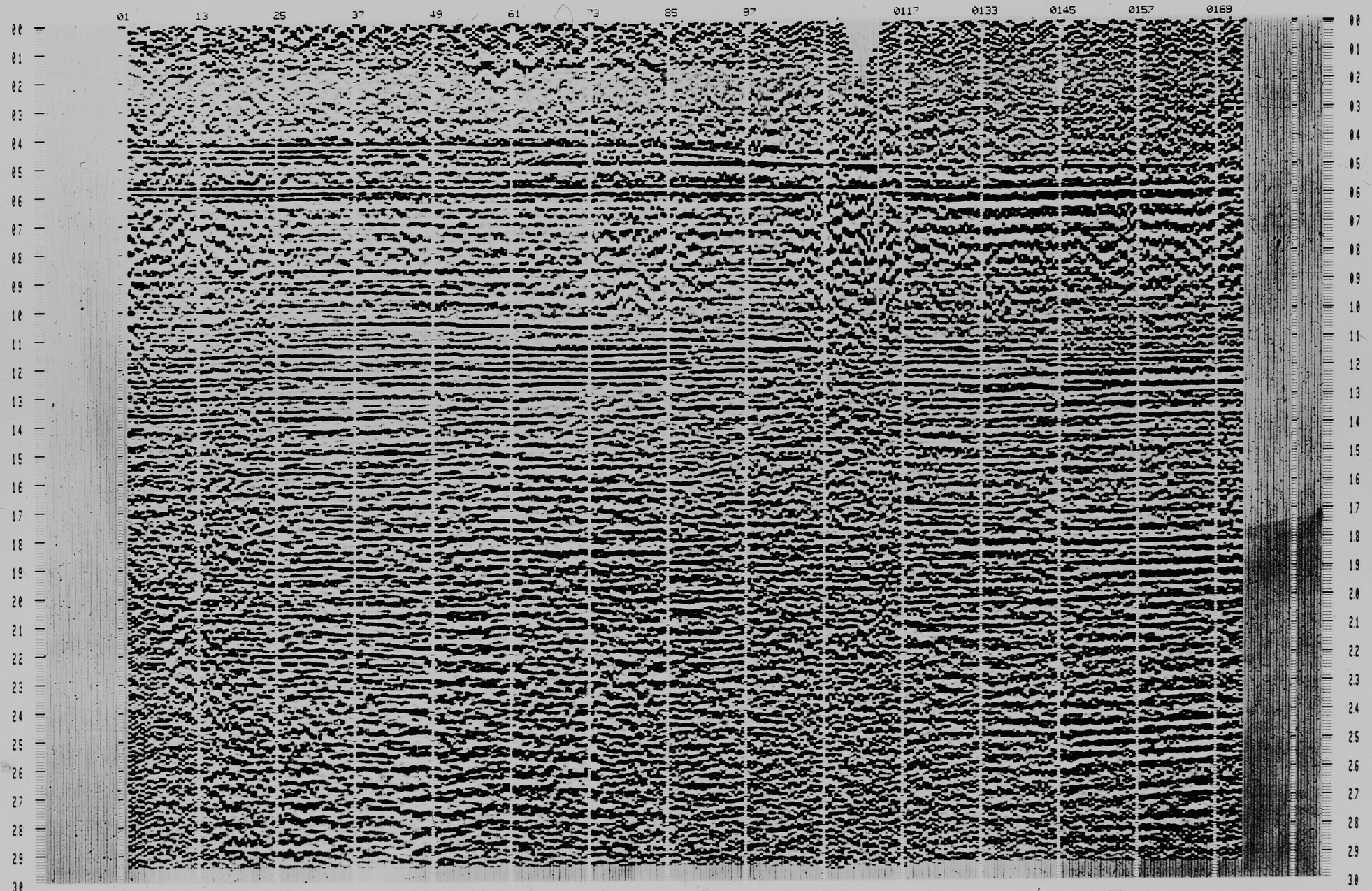
[illegible] TR./INCH POLARITY [illegible]
TAPE NAME (OUT) [illegible]
PROCESSED BY [illegible]

REMARKS

D1 -2640 FT D2 +2640 FT

SHOT POINT NUMBERS ARE IN MULTIPLES OF 4, IE 1 TO 173 BY 4

COINCIDENT SPS 117-131



MILE

IMPERIAL OIL LTD.
GEOPHYSICS, DATA PROCESSING
CALGARY, ALBERTA

SP. SP.

LINE AREA

PART DATE

FIELD RECORDING - LAND

CONTRACTOR PTY NO.
DATE SHOT

ENERGY SOURCE

TYPE
ARRAY LENGTH
SHOT INTERVAL

SURVEY LOCATION

START OF LINE
DIRECTION OF SHOOTING

GEOPHONES

TYPE NO. GROUPS
GEOPHONES/GROUP GROUP INTERVAL
ARRAY LENGTH

RECORDING CONFIGURATION
DISTANCES IN: ☐ FEET ☐ METRES

RECORDING INSTRUMENTS

SYSTEM NO. CHANNELS
FORMAT GAIN TYPE
RECORD LENGTH SEC. SAMPLE RATE MS.
RECORD FILTERS LO HZ SLOPE DB/OCTAVE
HI HZ SLOPE DB/OCTAVE

FIELD POLARITY COMPRESSIONAL WAVE
RECORDED AS VALUES

PROCESSING SEQUENCE

☐ DEMULT
☐ DATUM DATUM VEL FT./SEC.
☐ STATICS
☐ STATICS
☐ GAIN ☐ EXPONENTIAL ☐ GEOCOR
☐

☐ VERTICAL SUMMATION TO 1
☐ HORIZONTAL SUMMATION TO 1
☐ BINATION TO MS.
☐ DECON BEFORE STACK
OPERATOR LENGTH MS.
DESIGN GATE MS.
☐ FILTER
☐ VELOCITY ANALYSIS
☐ FOLD CDP STACK. SB INTERVAL
☐ DECON AFTER STACK
OPERATOR LENGTH MS.
DESIGN GATE MS.
FILTER

PHASE CORRECTION FILTER
TRACE NORMALIZE
AGC MS.

DISPLAY PARAMETERS

TR./INCH POLARITY
WAVE (OUT)
CESSED BY

REMARKS

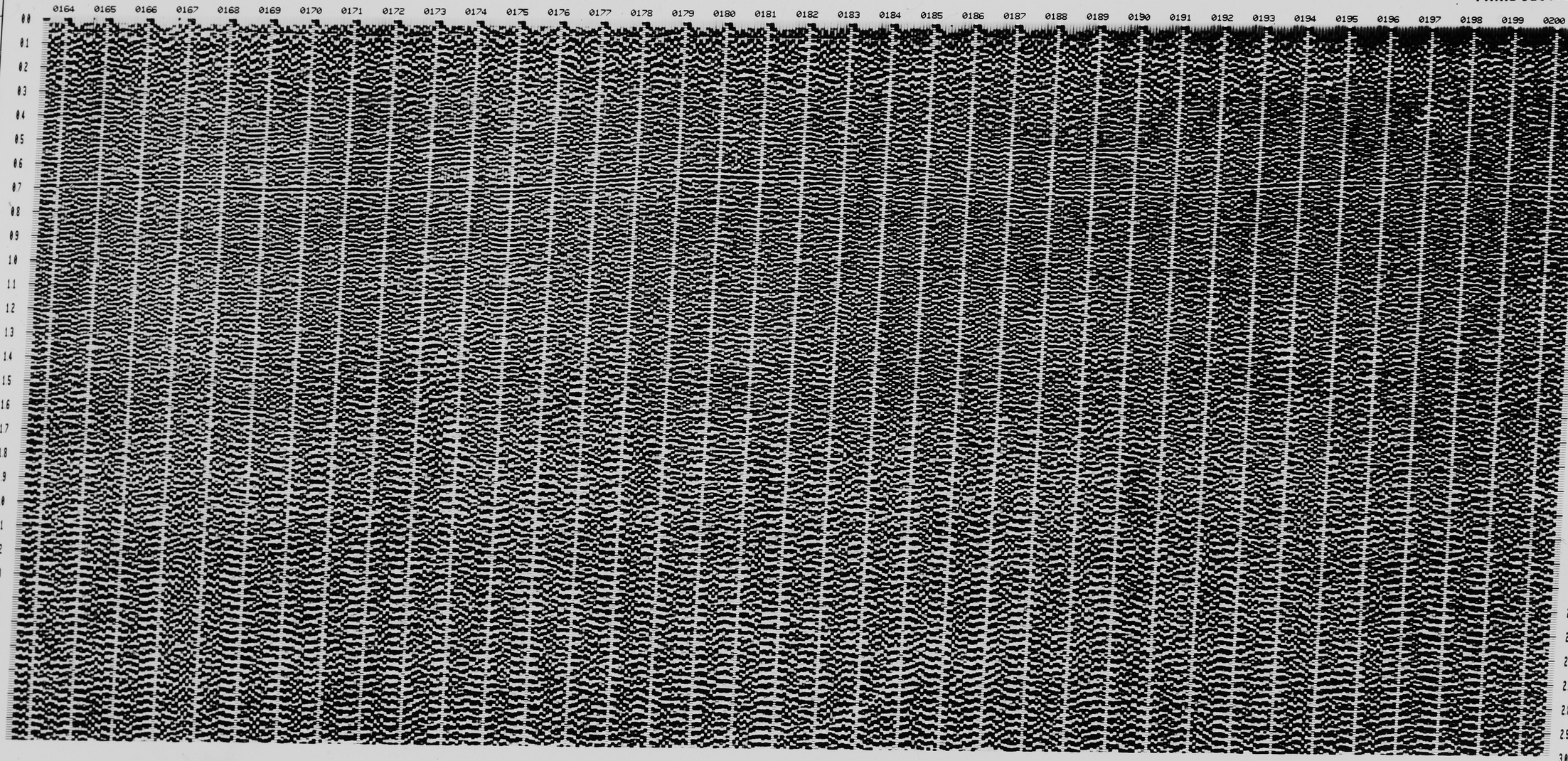
72-TAC-42027

101977
=42027
STRUC1

FINAL SECTION

72-TAC-42027

PROPRIETARY
FINAL SECTIO



1 MILE = ----------

NW / 213 SP.

IMPERIAL OIL LTD.

GEOPHYSICS. DATA PROCESSING
CALGARY. ALBERTA

SE / 32 SP.

LINE 78-124-42038 (1) AREA NORMAN WELLS

PART ONE OF ONE DATE 78-09-20

FIELD RECORDING - LAND

CONTRACTOR GSI PTY NO. 78 124
DATE SHOT APR 9 1978

ENERGY SOURCE

TYPE GEOGEL
ARRAY LINEAR LENGTH
SHOT INTERVAL 440 FT

SURVEY LOCATION

START OF LINE SP33 LAT 65-18 LONG 126-50
DIRECTION OF SHOOTING NORTHWEST

GEOPHONES

TYPE MARK NO. GROUPS 48
GEOPHONES/GROUP 9 GROUP INTERVAL 110 FT
ARRAY LINEAR LENGTH 150 FT

1 24 SP 25 48

2530 220 2530

RECORDING CONFIGURATION 24 24 SPLIT
DISTANCES IN [x] FEET [ ] METRES

RECORDING INSTRUMENTS

SYSTEM DFS IV NO. CHANNELS 53
FORMAT SEG B GAIN TYPE IFP
RECORD LENGTH 3 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 12 HZ SLOPE 18 DB/OCTAVE
HI 124HZ SLOPE 72 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS NEG VALUES

PROCESSING SEQUENCE

[1] DEMULT
[8] DATUM 0 DATUM VEL. 10000 FT./SEC.
[6] STATICS: CONSMT-CONSTH GATE 400-2400
[9] STATICS: MUTSTH GATE 200-1800
[2] GAIN: [ ] EXPONENTIAL [ ] GEOCOR
[x] NORMAL AGC 600MS
[ ] VERTICAL SUMMATION ____ TO 1
[ ] HORIZONTAL SUMMATION ____ TO 1
[ ] BIMATION TO ____ MS.
[4] DECON BEFORE STACK: LEAST SQUARES
OPERATOR LENGTH 80 MS.
DESIGN GATE VARIABLE MS.
[5] FILTER: 11-16-60-70
[7] VELOCITY ANALYSIS: LONG SPREAD SINGLE FOLD
[8] NMO
[10] 615 FOLD CDP STACK. SB INTERVAL 65 FT
[ ] DECON AFTER STACK:
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
[ ] FILTER:
[3] BANDFIL 2600 7 3500 7 4900 9 5600 9
[ ]
[ ]
[ ]
[ ]
[11] PHASE CORRECTION FILTER 12 8 6 3
[ ] TRACE NORMALIZE
[11] AGC 600 MS.

DISPLAY PARAMETERS

24 0 TR./INCH POLARITY NORMAL
TAPE NAME (OUT) PROD GDP =42038 DBNRSH 10
PROCESSED BY SBC DBNRSH 10

REMARKS

D1 -2640 FT DL +2640 FT

1 MILE =

NN

229 SP.

IMPERIAL OIL LTD.

GEOPHYSICS. DATA PROCESSING
CALGARY, ALBERTA

SE

277 SP.

LINE 78-124-42039-12 - AREA NORMAN WELLS

PART TWO OF TWO DATE 78-09-20

FIELD RECORDING - LAND

CONTRACTOR GSI PTY NO. 78 124
DATE SHOT APR 9 1978

ENERGY SOURCE

TYPE GEOGEL
ARRAY LINEAR LENGTH
SHOT INTERVAL 440 FT

SURVEY LOCATION

START OF LINE SP 1 LAT 65 17 LONG 126 00
DIRECTION OF SHOOTING SOUTHEAST

GEOPHONES

TYPE MARK NO. GROUPS 48
GEOPHONES/GROUP 9 GROUP INTERVAL 110 FT
ARRAY LINEAR LENGTH 160 FT

1 — 24 SP 25 — 48

2530 220 2530

RECORDING CONFIGURATION 24 24 SPLIT
DISTANCES IN [*] FEET [ ] METRES

RECORDING INSTRUMENTS

SYSTEM DFS IV NO. CHANNELS 53
FORMAT SEG B GAIN TYPE IFP
RECORD LENGTH 3 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 18 HZ SLOPE 18 DB/OCTAVE
HI 124 HZ SLOPE 72 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS NEG VALUES

PROCESSING SEQUENCE

[1] DEMULT

[8] DATUM 0 DATUM VEL. 10000 FT./SEC.

[6] STATICS: CONGHT-CONSTH GATE 400-2400

[9] STATICS: HUTSTH GATE 900-2000

[2] GAIN: [ ] EXPONENTIAL [ ] GEOCOR

[*] NORMAL AGC 600MS

[ ] VERTICAL SUMMATION ____ TO 1

[ ] HORIZONTAL SUMMATION ____ TO 1

[ ] BIMATION TO ____ MS.

[4] DECON BEFORE STACK : LEAST SQUARES

OPERATOR LENGTH 20 MS.

DESIGN GATE VARIABLE MS.

[5] FILTER : 11-16-50-60

[7] VELOCITY ANALYSIS : LONG SPREAD SINGLE FOLD

[8] NMO

[10] 612 FOLD CDP STACK. SB INTERVAL 55 FT

[ ] DECON AFTER STACK :

OPERATOR LENGTH ____ MS.

DESIGN GATE ____ MS.

[ ] FILTER :

[3] RALFIL 4000 9 7800 13 5000 7

[ ]

[ ]

[ ]

[ ]

[11] PHASE CORRECTION FILTER 12 18 2 2

[ ] TRACE NORMALIZE

[11] AGC 600 MS.

DISPLAY PARAMETERS

24 0 TR./INCH POLARITY NORMAL

TAPE NAME (OUT) PROD CDP =42039 NDBIRSI 2

PROCESSED BY SBC NDBIRSI 2

REMARKS

D1 -2640 FT DL +2640 FT

1 MILE = ----------

TWP _____ RGE _____

SP. 1 _____ SP. 102 _____

IMPERIAL OIL LTD.

GEOPHYSICS. DATA PROCESSING
CALGARY. ALBERTA

LINE 78-124-42039 (1 2) AREA NORTHWEST

PART ONE OF TWO DATE 78-09-20

FIELD RECORDING - LAND

CONTRACTOR GSI PTY NO. 78-124
DATE SHOT APR 9 1978

ENERGY SOURCE

TYPE GEOGEL
ARRAY LINEAR LENGTH _____
SHOT INTERVAL 440 FT

SURVEY LOCATION

START OF LINE SP 1 LAT 65-17 LONG 127 00
DIRECTION OF SHOOTING SOUTHEAST

GEOPHONES

TYPE MARK NO. GROUPS 48
GEOPHONES/GROUP 9 GROUP INTERVAL 110 FT
ARRAY LINEAR LENGTH 160 FT

1 24 SP 25 48

2530 220 2530

RECORDING CONFIGURATION 24 24 SPLIT
DISTANCES IN [*] FEET [ ] METRES

RECORDING INSTRUMENTS

SYSTEM DFS IV NO. CHANNELS 53
FORMAT SEG B GAIN TYPE IFP
RECORD LENGTH 3 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 12 HZ SLOPE 18 DB/OCTAVE
HI 124 HZ SLOPE 72 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS NEG VALUES

PROCESSING SEQUENCE

[1] DEMULT _____

[7] DATUM 0 _____ DATUM VELOCITY _____ FT./SEC.

[8] STATICS: HUTSTH

[ ] STATICS: _____

[2] GAIN: [ ] EXPONENTIAL [ ] GEOCOR

[4] NORMAL MAX. GAIN:

[ ] VERTICAL SUMMATION _____ TO 1

[ ] HORIZONTAL SUMMATION _____ TO 1

[ ] BIMATION TO _____ MS.

[4] DECON BEFORE STACK : LEMST SQUARE

OPERATOR LENGTH 20 _____ MS.

DESIGN GATE: VARIABLE _____ MS.

[6] FILTER : 11-16-60-70

[6] VELOCITY ANALYSIS : LONG SPREAD SINGLE FOLD

[7] NMO _____

[9] 515 FOLD CDP STACK. SB INTERVAL 55 FT

[ ] DECON AFTER STACK : _____

OPERATOR LENGTH _____ MS.

DESIGN GATE _____ MS.

[ ] FILTER : _____

[3] MULFIL 4500 9 8500 15

[ ] _____

[ ] _____

[ ] _____

[ ] _____

[10] PHASE CORRECTION FILTER 15 18 2 2.

[ ] TRACE NORMALIZE _____

[10] AGC 600 MS.

DISPLAY PARAMETERS

24 0 TR./INCH POLARITY NORMAL

TAPE NAME (OUT) PROD CDP =42039 DENSITY 10

PROCESSED BY SEG DENSITY 10

REMARKS

D1 -2640 FT D2 +2640 FT

1
MILE

IMPERIAL OIL LTD.
GEOPHYSICS. DATA PROCESSING
CALGARY. ALBERTA

LINE [illegible] AREA [illegible]

PART [illegible] DATE [illegible]

FIELD RECORDING - LAND

CONTRACTOR [illegible] PTY NO. [illegible]
DATE SHOT [illegible]

ENERGY SOURCE

TYPE [illegible]
ARRAY [illegible] LENGTH [illegible]
SHOT INTERVAL [illegible]

SURVEY LOCATION

START OF LINE [illegible]
DIRECTION OF SHOOTING [illegible]

GEOPHONES

TYPE [illegible] NO. GROUPS [illegible]
GEOPHONES/GROUP [illegible] GROUP INTERVAL [illegible]
ARRAY [illegible] LENGTH [illegible]

[illegible] 100 [illegible]

RECORDING CONFIGURATION [illegible]
DISTANCES IN ☒ FEET ☐ METRES

RECORDING INSTRUMENTS

SYSTEM [illegible] NO. CHANNELS [illegible]
FORMAT [illegible] GAIN TYPE [illegible]
RECORD LENGTH [illegible] SEC. SAMPLE RATE [illegible] MS.
RECORD FILTERS LO ___ HZ SLOPE ___ DB/OCTAVE
HI ___ HZ SLOPE ___ DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS ___ VALUES

PROCESSING SEQUENCE

☐ DEMULT ___
☐ DATUM [illegible] DATUM VEL. [illegible] FT./SEC.
☐ STATICS: [illegible]
☐ STATICS: [illegible]
☐ GAIN: ☐ EXPONENTIAL ☐ GEOCOR
☐ ___
☐ VERTICAL SUMMATION: ___ TO 1
☐ HORIZONTAL SUMMATION: ___ TO 1
☐ BIMATION TO ___ MS.
☐ DECON BEFORE STACK: [illegible]
OPERATOR LENGTH [illegible] MS.
DESIGN GATE [illegible] MS.
☐ FILTER: [illegible]
☐ VELOCITY ANALYSIS: ___
☐ ___ FOLD CDP STACK. SB INTERVAL ___
☐ DECON AFTER STACK: ___
OPERATOR LENGTH ___ MS.
DESIGN GATE ___ MS.
☐ FILTER: ___
☐ ___
☐ ___
☐ ___
☐ ___
☐ ___
☐ ___
☐ PHASE CORRECTION FILTER ___
☐ TRACE NORMALIZE ___
☐ AGC [illegible] MS.

DISPLAY PARAMETERS

[illegible] TR./INCH POLARITY [illegible]
TAPE NAME (OUT) [illegible]
PROCESSED BY [illegible]

REMARKS

[illegible]

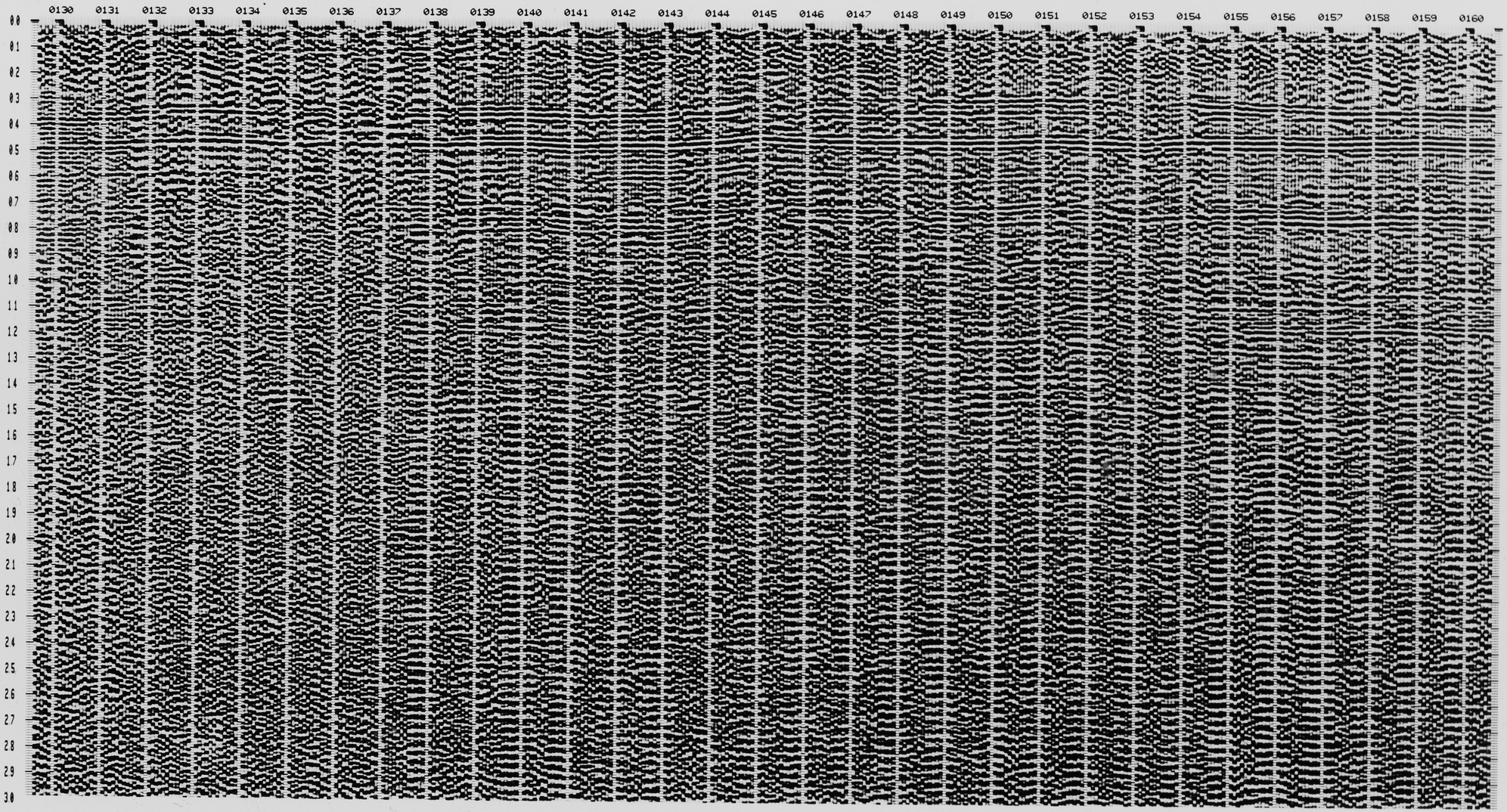
101877
=42025
STRUC1

72-TAC-42025

PROPRIETARY
FINAL SECTION

72-TAC-42025

PROPRIETARY
FINAL SECTION



1
MILE

IMPERIAL OIL LTD.
GEOPHYSICS. DATA PROCESSING
CALGARY. ALBERTA

LINE 42026 AREA [illegible]

101977
=42026
STRUC1

PROPRIETARY
FINAL SECTION

72-TAC-42026

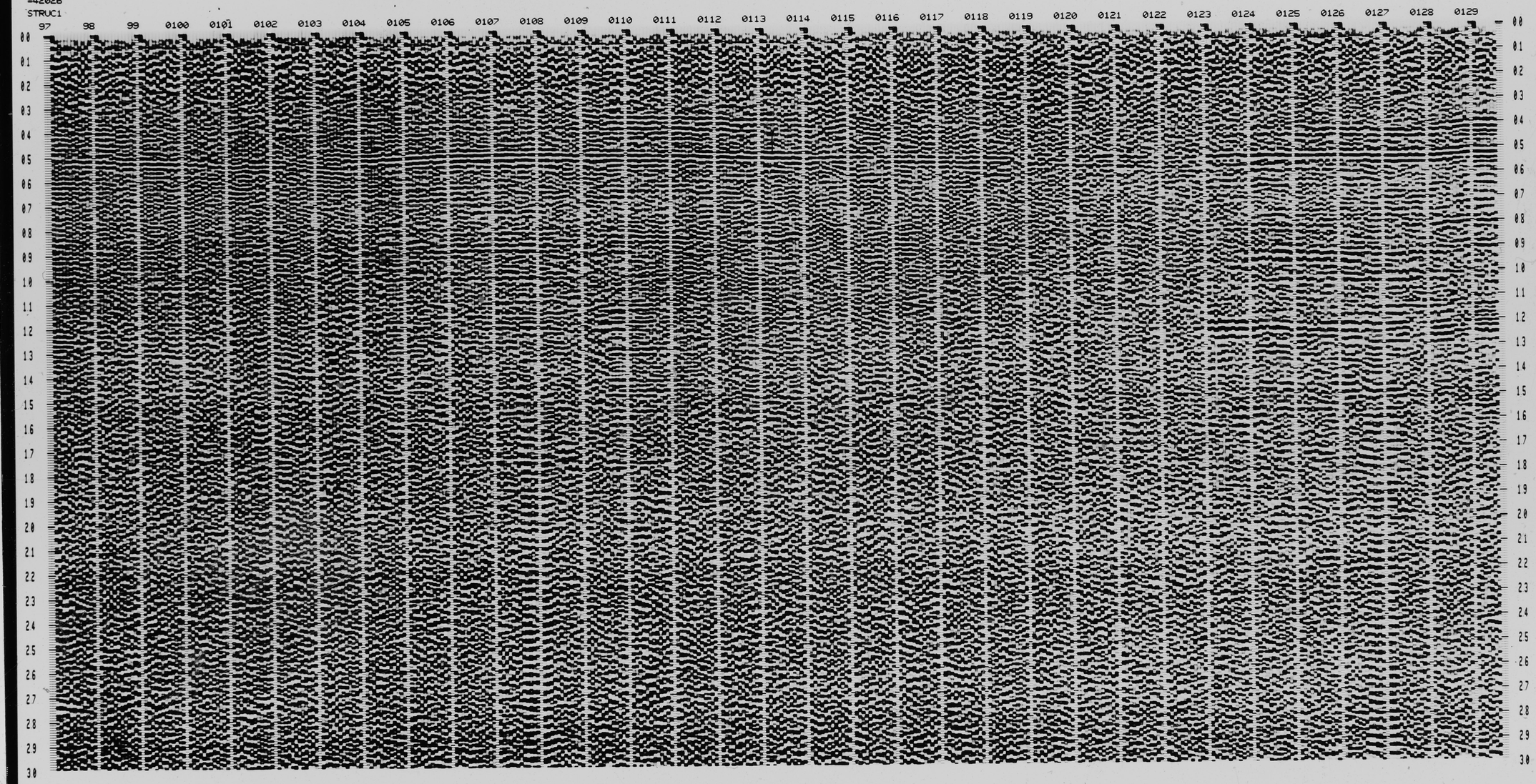
PROPRIETARY
FINAL SECTION

72-T

PROPRIETARY
FINAL SECTION

72-TAC-42026

101977
=42026
STRUC1



DEMULT
DATUM ____ DATUM VEL. ____ FT./SEC.
STATICS# ____
STATICS# ____
GAIN# ☐ EXPONENTIAL ☐ GEOCOR

VERTICAL SUMMATION ____ TO 1
HORIZONTAL SUMMATION ____ TO 1
BIPATION TO ____ MS.
DECON BEFORE STACK # ____
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
FILTER # ____
VELOCITY ANALYSIS # ____
FOLD CDP STACK, SB INTERVAL
DECON AFTER STACK # ____
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
FILTER # ____

PHASE CORRECTION FILTER ____
TRACE NORMALIZE ____
AGC ____ MS.

DISPLAY PARAMETERS
____ TR./INCH POLARITY ____
TAPE NAME (OUT) ____
PROCESSED BY ____

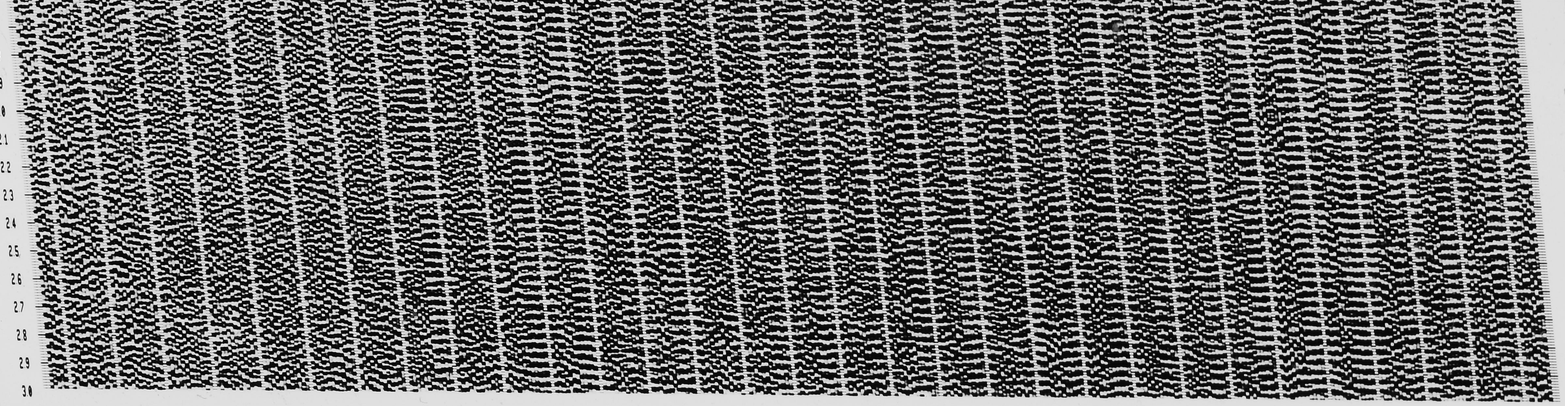
REMARKS

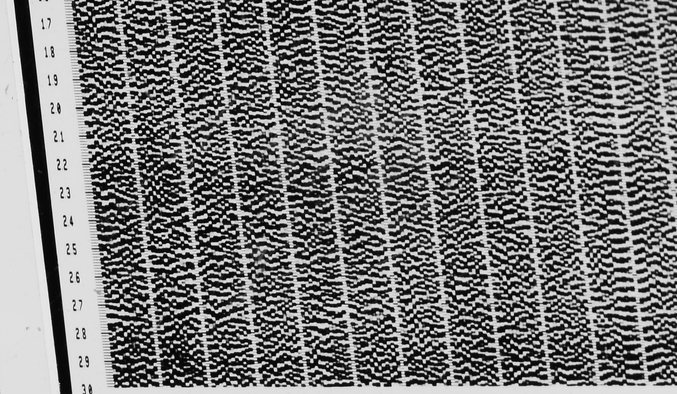
72-TAC-42026 HEADER

RIVER SHOOTING

MAP=72-6

NOAA ORDER=D-631





1 MILE

IMPERIAL OIL LTD.
GEOPHYSICS, DATA PROCESSING
CALGARY, ALBERTA

LINE ____ AREA ____
PART ____ DATE ____

FIELD RECORDING - LAND

CONTRACTOR ____ PTY NO. ____
DATE SHOT ____

ENERGY SOURCE
TYPE ____
ARRAY ____ LENGTH ____
SHOT INTERVAL ____

SURVEY LOCATION
START OF LINE ____
DIRECTION OF SHOOTING ____

GEOPHONES
TYPE ____ NO. GROUPS ____
GEOPHONES/GROUP ____ GROUP INTERVAL ____
ARRAY ____ LENGTH ____

RECORDING CONFIGURATION ____
DISTANCES IN ☐ FEET ☐ METRES

RECORDING INSTRUMENTS
SYSTEM ____ NO. CHANNELS ____
FORMAT ____ GAIN TYPE ____
RECORD LENGTH ____ SEC. SAMPLE RATE ____ MS.
RECORD FILTERS LO ____ HI SLOPE ____ DB/OCTAVE
HI ____ HI SLOPE ____ DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS ____ VALUES

PROCESSING SEQUENCE

DEMULT
DATUM ____ DATUM VEL. ____ FT./SEC.
STATICS# ____
STATICS# ____
GAIN# ☐ EXPONENTIAL ☐ GEOCOR

VERTICAL SUMMATION ____ TO 1
HORIZONTAL SUMMATION ____ TO 1
BIPATION TO ____ MS.
DECON BEFORE STACK # ____
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
FILTER # ____
VELOCITY ANALYSIS # ____
FOLD CDP STACK, SB INTERVAL
DECON AFTER STACK # ____
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
FILTER # ____

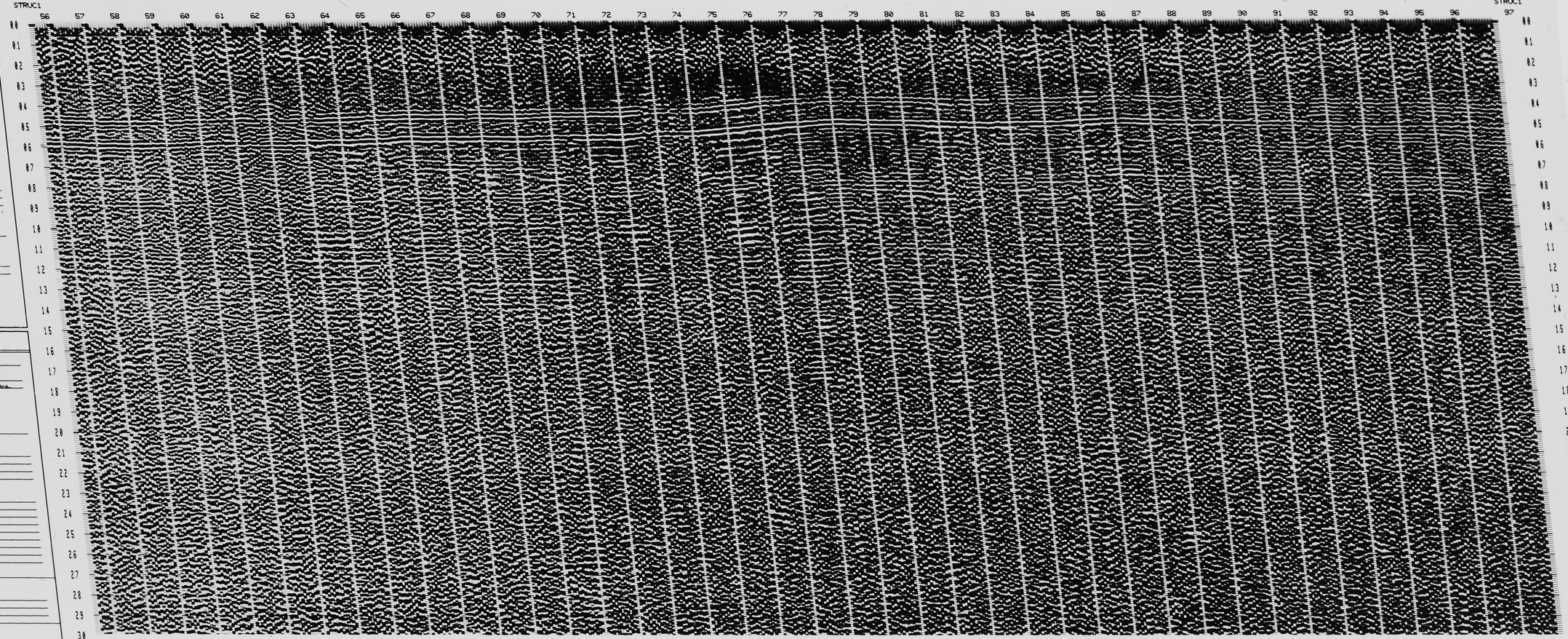
PHASE CORRECTION FILTER ____
TRACE NORMALIZE ____
AGC ____ MS.

DISPLAY PARAMETERS
____ TR./INCH POLARITY ____
TAPE NAME (OUT) ____
PROCESSED BY ____

REMARKS

PROPRIETARY
FINAL SECTION
72-TAC-42026

101977
#42026
STRUC1



PROPRIETARY
FINAL SECTION
72-TAC-42026

101977
#42026
STRUC1

1 MILE =

SW 513 SP.

IMPERIAL OIL LTD.

GEOPHYSICS, DATA PROCESSING
CALGARY, ALBERTA

NE 9 SP.

LINE 78-I24-42044 AREA NORMAN WELLS

PART ONE OF ONE DATE 78-09-28

FIELD RECORDING - LAND

CONTRACTOR G.S.I PTY NO. 78 I24
DATE SHOT APR 2-4 1978

ENERGY SOURCE

TYPE GEOFEL AND AQUAFLEX
ARRAY LINEAR LENGTH AQUAFLEX 10
SHOT INTERVAL 220 440

SURVEY LOCATION

START OF LINE SP 9 LAT 65-18 LONG 126-48
DIRECTION OF SHOOTING S.W.

GEOPHONES

TYPE MARK NO. GROUPS 48
GEOPHONES/GROUP 9 GROUP INTERVAL 110
ARRAY LINEAR LENGTH 160

SP

2530 — 220 — 2530

RECORDING CONFIGURATION 24/24 SPLIT
DISTANCES IN [X] FEET [ ] METRES

RECORDING INSTRUMENTS

SYSTEM DFS IV NO. CHANNELS 53
FORMAT SEGB GAIN TYPE IFP
RECORD LENGTH 3 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 12 HZ SLOPE 18 DB/OCTAVE
HI 124 HZ SLOPE 72 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS NEG VALUES

PROCESSING SEQUENCE

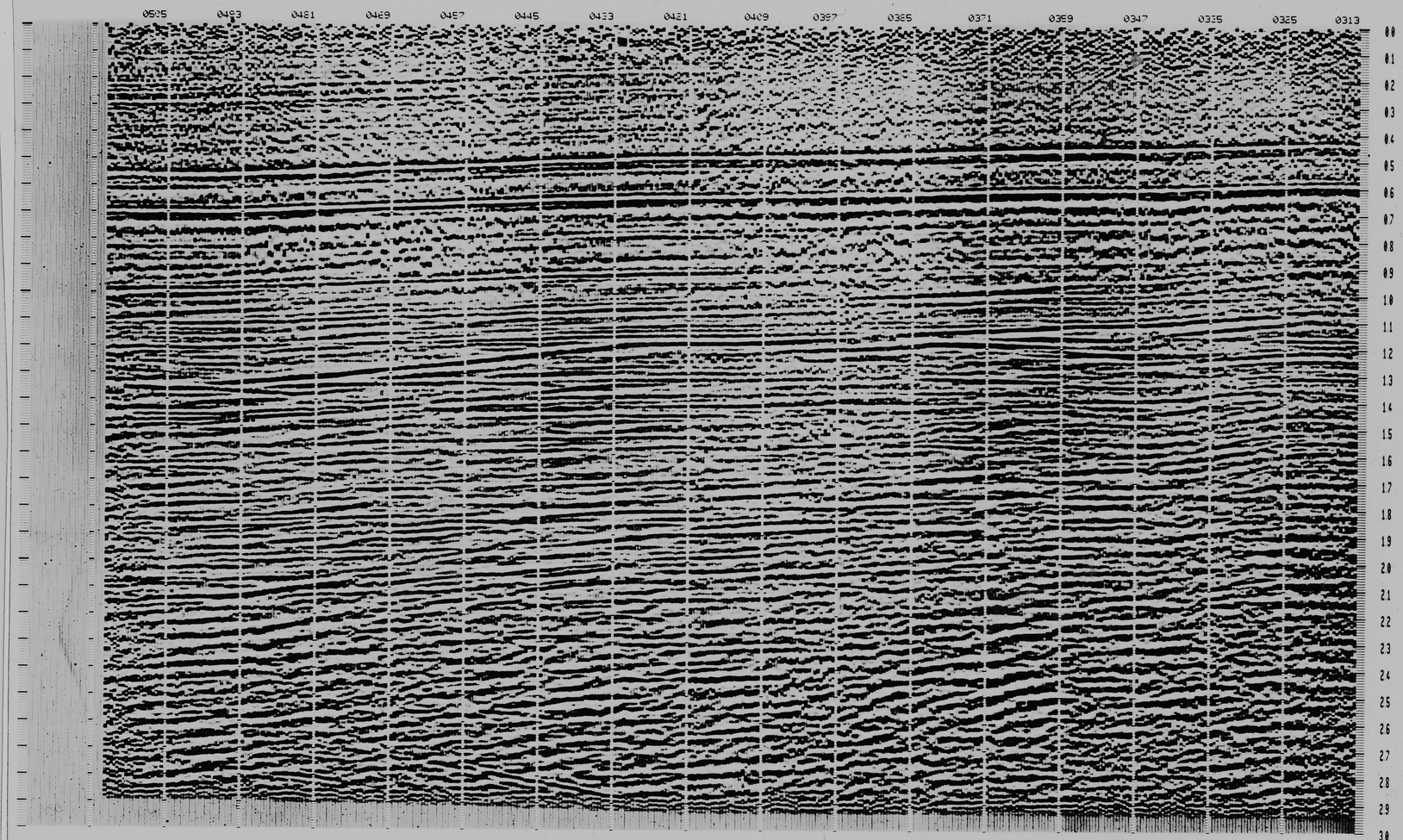
[1] DEMULT
[8] DATUM 0 DATUM VEL. 10000 FT./SEC.
[6] STATICS: GREAT CASTA 300-1800
[9] STATICS: AUTSTA 300-1600
[2] GAIN: [ ] EXPONENTIAL [ ] GEOCOR
[X] NORMAL AGC 600 MS
[ ] VERTICAL SUMMATION ____ TO 1
[ ] HORIZONTAL SUMMATION ____ TO 1
[ ] BIMATION TO ____ MS.
[4] DECON BEFORE STACK: LEAST SQUARES
OPERATOR LENGTH 20 MS.
DESIGN GATE VARIABLE MS.
[5] FILTER: 11-16-60-70
[7] VELOCITY ANALYSIS: LONG SPREAD SINGLE FOLD
[8] NMO
[10] 6IS FOLD CDP STACK. SB INTERVAL 55
[ ] DECON AFTER STACK:
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
[ ] FILTER:
[3] BULFL 2600/9 3800/9
[ ] 5300/13 6500/13
[ ]
[ ]
[ ]
[11] PHASE CORRECTION FILTER 12/182/2
[ ] TRACE NORMALIZE
[11] AGC 600 MS.

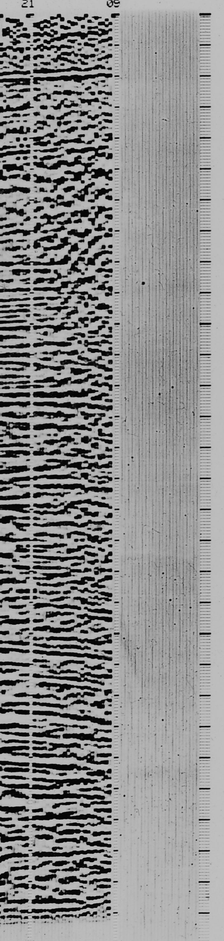
DISPLAY PARAMETERS

64.0 TR./INCH POLARITY NORMAL
TAPE NAME (OUT) PROD.GDP.#42044.WDBNRSK1
PROCESSED BY

REMARKS

78-I24-42044





1 MILE =

SW 513 SP. — IMPERIAL OIL LTD. — NE 9 SP.

GEOPHYSICS, DATA PROCESSING
CALGARY, ALBERTA

LINE 78-I24-42044 AREA NORMAN WELLS
PART ONE OF ONE DATE 78-09-28

FIELD RECORDING - LAND

CONTRACTOR G.S.I. PTY NO. 78 I24
DATE SHOT APR 2-4 1978

ENERGY SOURCE
TYPE GEOFEL AND AQUAFLEX
ARRAY LINEAR LENGTH AQUAFLEX 10
SHOT INTERVAL 220 440

SURVEY LOCATION
START OF LINE SP 9 LAT 65-19 LONG 126-48
DIRECTION OF SHOOTING S.W.

GEOPHONES
TYPE MARK NO. GROUPS 48
GEOPHONES/GROUP 9 GROUP INTERVAL 110
ARRAY LINEAR LENGTH 160

SP
2530 — 220 — 2530
RECORDING CONFIGURATION 24/24 SPLIT
DISTANCES IN [x] FEET [ ] METRES

RECORDING INSTRUMENTS
SYSTEM DFS IV NO. CHANNELS 53
FORMAT SEG B GAIN TYPE IFP
RECORD LENGTH 3 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 12 HZ SLOPE 15 DB/OCTAVE
HI 124 HZ SLOPE 32 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS NEG VALUES

PROCESSING SEQUENCE

[7] DEMULT
[8] DATUM 0 DATUM VEL. 10000 FT./SEC.
[6] STATICS: GREAT CANADA 300-1900
[9] STATICS: AUTSTA 300-1600
[2] GAIN: [ ] EXPONENTIAL [ ] GEOCOR
[x] NORMAL AGC 600 MS
[ ] VERTICAL SUMMATION ____ TO 1
[ ] HORIZONTAL SUMMATION ____ TO 1
[ ] BIMATION TO ____ MS.
[6] DECON BEFORE STACK: LEAST SQUARES
OPERATOR LENGTH 30 MS.
DESIGN GATE VARIABLE MS.
[8] FILTER: 11-16-60-70
[5] VELOCITY ANALYSIS: LONG SPREAD SINGLE FOLD
[4] NMO
[10] 6FS FOLD CDP STACK. SB INTERVAL 55
[ ] DECON AFTER STACK:
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
[ ] FILTER:
[3] BULFL 2600/9 3900/9
5300/13 6500/13
[ ]
[ ]
[ ]
[11] PHASE CORRECTION FILTER 12/182/2
[ ] TRACE NORMALIZE
[11] AGC 600 MS.

DISPLAY PARAMETERS

64.0 TR./INCH POLARITY NORMAL
TAPE NAME (OUT) PROD.GDP #42044.WDBNRSK1
PROCESSED BY

REMARKS

PE 2/2
45

1 MILE =

SP.

IMPERIAL OIL LTD.

GEOPHYSICS. DATA PROCESSING

CALGARY. ALBERTA

SP.

LINE AREA

5300/13 6500/13

[ ]
[ ]
[ ]
[ ]

[11] PHASE CORRECTION FILTER 12/182/2

[ ] TRACE NORMALIZE

[11] AGC 600. MS.

DISPLAY PARAMETERS

64.0 TR./INCH POLARITY NORMAL

TAPE NAME (OUT) PROD.GDP.#42044.WDBNRSKI

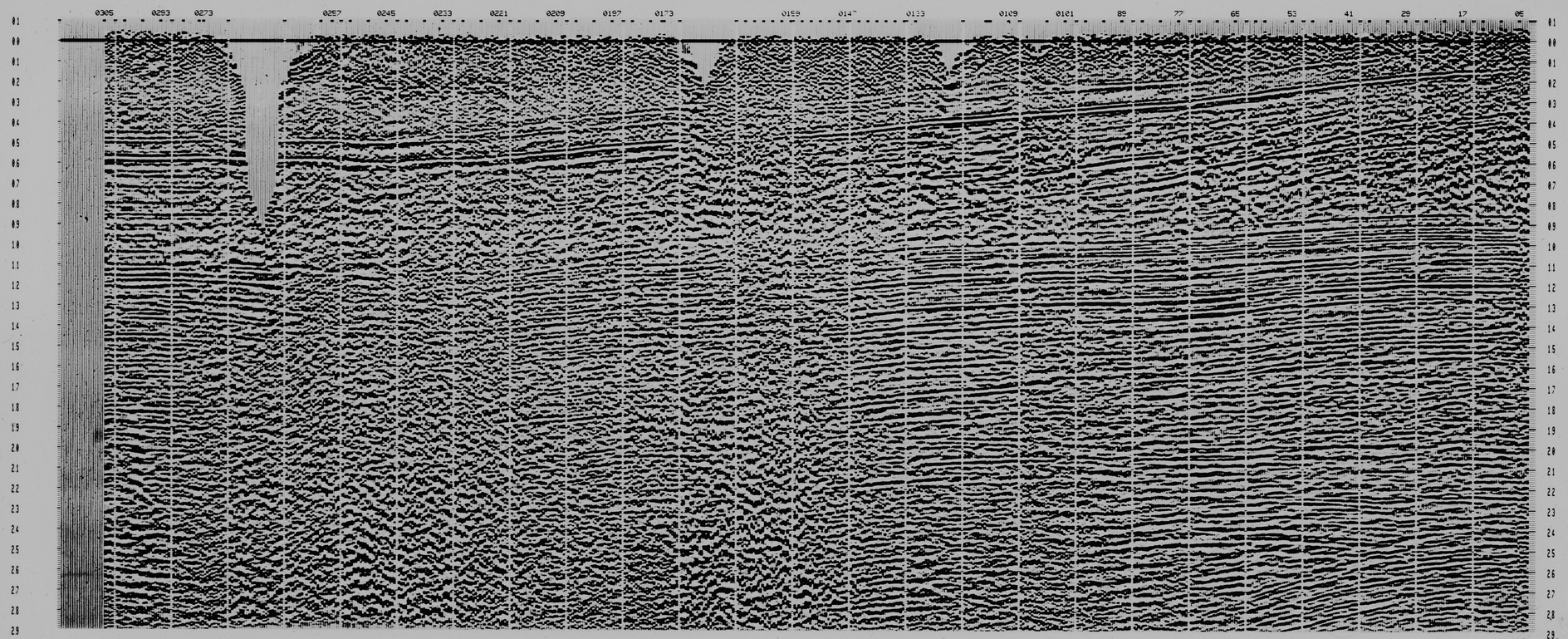
PROCESSED BY

REMARKS

ECTION

78-124-42042

78 124 42042 BNRRSK1
78-09-27 PROPRIETARY FINAL SECTION



1 MILE =

IMPERIAL OIL LTD.
GEOPHYSICS, DATA PROCESSING
CALGARY, ALBERTA

LINE 78 I 24 42042 AREA NORTHWEST WELLS
PART ONE OF ONE DATE 78-09-27

FIELD RECORDING - LAND

CONTRACTOR GSI PTY NO. 78 - I 24
DATE SHOT MAR 31 - APR 78

ENERGY SOURCE
TYPE VIBRO SEIS MED HYDRAFLEX
ARRAY LINEAR LENGTH HYDRAFLEX
SHOT INTERVAL 220 - 440

SURVEY LOCATION
START OF LINE SP 5 LAT 62-18 LONG 126-48
DIRECTION OF SHOOTING SOUTH

GEOPHONES
TYPE SM6
GEOPHONES/GROUP 2 NO. GROUPS 48
ARRAY LINEAR GROUP INTERVAL 110
LENGTH 160
25 SP 24
220 20 220
RECORDING CONFIGURATION 24 LIKE SPLIT
DISTANCES IN [X] FEET [ ] METRES

RECORDING INSTRUMENTS
SYSTEM DFS IV NO. CHANNELS 53
FORMAT SEG B GAIN TYPE IFP
RECORD LENGTH 2 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 16 HZ SLOPE 18 DB/OCTAVE
HI 128 HZ SLOPE 72 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS SEG VALUES

PROCESSING SEQUENCE

[1] DEMULT
[2] DATUM 0 DATUM VEL. 12000 FT./SEC.
[3] STATICS: CONSTANT GATE 400-1800
[4] STATICS: INTERNODE 200-1800
[5] GAIN [ ] EXPONENTIAL [ ] GEOCOR
[X] LINEAR 200-800 MS
[ ] VERTICAL SUMMATION ____ TO 1
[ ] HORIZONTAL SUMMATION ____ TO 1
[ ] BIMATION TO ____ MS.
[X] DECON BEFORE STACK # LEAST SQUARES
OPERATOR LENGTH 60 MS.
DESIGN GATE VARIABLE MS.
[6] FILTER # VARIABLE
[7] VELOCITY ANALYSIS # 1,2,3,4 AFTER 6 FOLD
[8] MMO
[10] N/A FOLD COP STACK, SB INTERVAL 66FT
[ ] DECON AFTER STACK # ____
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
[9] FILTER # MIXED FIL 2000 - 3000
[9] MIXED FILTERS # 2000 13
[ ] PHASE CORRECTION FILTER 18 18 2 2
[ ] TRACE NORMALIZE
[1] AGC 400 MS.

DISPLAY PARAMETERS
64 W TR./INCH POLARITY NORMAL
TAPE NAME (OUT) PROC UP MIXED BNRRSK1
PROCESSED BY IBM NORSK 1

REMARKS
01-2040 14-2040

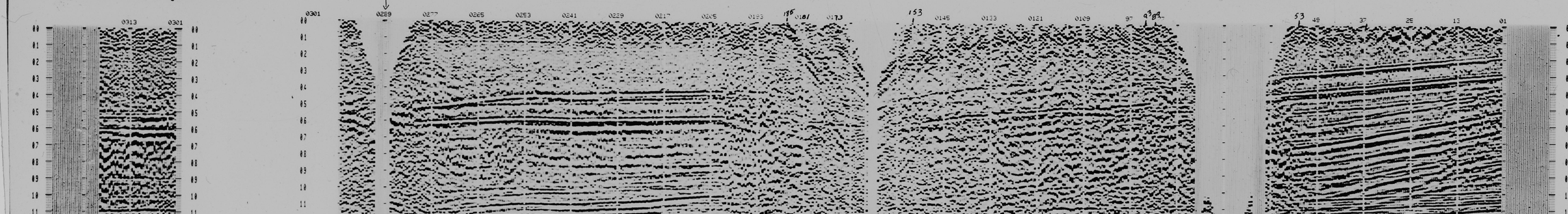
WDBNRSK1
OPRIETARY FINAL SECTION

ECTION

78-I24-42043

78 I24 42043 WDBNRSK1
78-09-25 PROPRIETARY FINAL SECTION

78-I24-42043



1 MILE =

IMPERIAL
GEOPHYSICS, DA
CALGARY,

LINE 78 I 24 42043
PART ONE OF ONE

FIELD RECORD

CONTRACTOR GSI
DATE SHOT APRIL 1978

ENERGY SOURCE
TYPE VIBRO SEI
ARRAY LINEAR
SHOT INTERVAL 440

SURVEY LOCATION
START OF LINE SP 5 LAT
DIRECTION OF SHOOTING SOUTH

GEOPHONES
TYPE SM6
GEOPHONES/GROUP 2
ARRAY LINEAR
25
220 20 220
RECORDING CONFIGURATION 24 LIK
DISTANCES IN [X] FEET [ ] METRE

1 MILE = ----------

1E

1 SP.

321 SP.

IMPERIAL OIL LTD.

GEOPHYSICS. DATA PROCESSING
CALGARY. ALBERTA

LINE 78 1 24 -42043 AREA NORMAL WELLS

PART ONE OF ONE DATE 78-09-25

FIELD RECORDING - LAND

CONTRACTOR GSI PTY NO. 78 - 1 24
DATE SHOT APRIL 1978

ENERGY SOURCE

TYPE GEO GEL
ARRAY LINEAR LENGTH HOLEFLEX
SHOT INTERVAL 440

SURVEY LOCATION

START OF LINE SP 5 LAT 62-19 LONG 126-49
DIRECTION OF SHOOTING SOUTH

GEOPHONES

TYPE MAR NO. GROUPS 48
GEOPHONES/GROUP 9 GROUP INTERVAL 110
ARRAY LINEAR LENGTH 150

1 25 SP 24

2530 220 2530

RECORDING CONFIGURATION 24 24 SPLIT
DISTANCES IN [x] FEET [ ] METRES

RECORDING INSTRUMENTS

SYSTEM DFS IV NO. CHANNELS 52
FORMAT SEG B GAIN TYPE IFP
RECORD LENGTH 3 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 12 HZ SLOPE 18 DB/OCTAVE
HI 12 HZ SLOPE 72 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS NEG VALUES

PROCESSING SEQUENCE

[1] DEMULT
[7] DATUM 0 DATUM VEL. 10000 FT./SEC.
[ ] STATICS:
[8] STATICS: AUTSTA 200-1600
[2] GAIN: [ ] EXPONENTIAL [ ] GEOCOR
[x] NORMAL AGC 600 MS
[ ] VERTICAL SUMMATION ____ TO 1
[ ] HORIZONTAL SUMMATION ____ TO 1
[ ] BIMATION TO ____ MS.
[4] DECON BEFORE STACK: LEAST SQUARES
OPERATOR LENGTH 20 MS.
DESIGN GATE VARIABLE MS.
[5] FILTER: 11-16-60-70
[6] VELOCITY ANALYSIS: LONG SPREAD SINGLE FOLD
[7] NMO
[9] 618 FOLD CDP STACK. SB INTERVAL 55 Feet
[ ] DECON AFTER STACK:
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
[3] FILTER: ANULFIL 2400/7 3600/7
4000/9 5400/9
[ ]
[ ]
[ ]
[ ]
[ ]
[10] PHASE CORRECTION FILTER 12/18 2/3
[ ] TRACE NORMALIZE
[10] AGC 600 MS.

DISPLAY PARAMETERS

24 0 TR./INCH POLARITY NORMAL
TAPE NAME (OUT) PROD GDP -42043 WDENRSH1
PROCESSED BY SBC WDENRSH1

REMARKS

D1-2640 DL+2640
SP 1.5.10. 13-65.77-153.165-321 BY 4

1 MILE =

111 — 445 SP.

IMPERIAL OIL LTD.

GEOPHYSICS. DATA PROCESSING
CALGARY. ALBERTA

35 — 1 SP.

LINE 78-124-42040 (1) AREA HORMUZ WELLS

PART ONE OF ONE DATE 78-09-28

FIELD RECORDING - LAND

CONTRACTOR GSI PTY NO. 78 124
DATE SHOT APR 9 1978

ENERGY SOURCE

TYPE GEOGEL
ARRAY LINEAR LENGTH
SHOT INTERVAL 440 FT

SURVEY LOCATION

START OF LINE SP 1 LAT 65-15 LONG 126-50
DIRECTION OF SHOOTING NW

GEOPHONES

TYPE MARK NO. GROUPS 48
GEOPHONES/GROUP 8 GROUP INTERVAL 110 FT
ARRAY LINEAR LENGTH 160 FT

48 25 SP 24 1

2630 — 220 — 2630

RECORDING CONFIGURATION 24 24 SPLIT
DISTANCES IN [*] FEET [ ] METRES

RECORDING INSTRUMENTS

SYSTEM DFS IV NO. CHANNELS 53
FORMAT SEG B GAIN TYPE IFP
RECORD LENGTH 3 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 12 HZ SLOPE 18 DB/OCTAVE
HI 124 HZ SLOPE 72 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS NEG VALUES

PROCESSING SEQUENCE

[1] DEMULT
[4] DATUM 0 DATUM VEL. 10000 FT./SEC.
[6] STATICS: COMBAT. COMSTA GATE 300-1800
[9] STATICS: AUTSTA 300-1600
[3] GAIN: [ ] EXPONENTIAL [ ] GEOCOR
[*] NORMAL AGC 600MS
[ ] VERTICAL SUMMATION ____ TO 1
[ ] HORIZONTAL SUMMATION ____ TO 1
[ ] BIMATION TO ____ MS.
[4] DECON BEFORE STACK: LEAST SQUARES
OPERATOR LENGTH 80 MS.
DESIGN GATE VARIABLE MS.
[5] FILTER: 11-16-60-70
[7] VELOCITY ANALYSIS: LONG SPREAD SINGLE FOLD
[8] NMO
[10] 612 FOLD CDP STACK. SB INTERVAL 55 FT
[ ] DECON AFTER STACK:
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
[3] FILTER: ALFIL 2300 74000 9
[ ] 6500 12000 13
[ ]
[ ]
[ ]
[ ]
[11] PHASE CORRECTION FILTER 12 182 2
[ ] TRACE NORMALIZE
[11] AGC 600 MS.

DISPLAY PARAMETERS

24.0 TR./INCH POLARITY NORMAL
TAPE NAME (OUT) PROD GIP 42040 BURST 1
PROCESSED BY SEG BURST 1

REMARKS

D1 2640 FT D2 42640 FT
SP 1-213 267-309 364-446 D: 4

1 MILE =

445 SP.

IMPERIAL OIL LTD.

GEOPHYSICS. DATA PROCESSING
CALGARY. ALBERTA

1 SP.

LINE 78-124-42040 (1) AREA [illegible]

PART ONE OF ONE DATE 78-09-28

FIELD RECORDING - LAND

CONTRACTOR GSI PTY NO. 78 124
DATE SHOT APR 9 1978

ENERGY SOURCE

TYPE GEOGEL
ARRAY LINEAR LENGTH
SHOT INTERVAL 440 FT

SURVEY LOCATION

START OF LINE SP 1 LAT 55-15 LONG 120-50
DIRECTION OF SHOOTING N/W

GEOPHONES

TYPE MARK NO. GROUPS 48
GEOPHONES/GROUP 2 GROUP INTERVAL 110 FT
ARRAY LINEAR LENGTH 160 FT

48 25 SP 24 1

2530 — 220 — 2530

RECORDING CONFIGURATION 24 24 SPLIT
DISTANCES IN [*] FEET [ ] METRES

RECORDING INSTRUMENTS

SYSTEM DFS IV NO. CHANNELS 53
FORMAT SEG B GAIN TYPE IFP
RECORD LENGTH 3 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 12 HZ SLOPE 18 DB/OCTAVE
HI 12 HZ SLOPE 72 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS NEG VALUES

PROCESSING SEQUENCE

[1] DEMULT
[4] DATUM 0 DATUM VEL. 10000 FT./SEC.
[6] STATICS: COMGAT. COMSTA GATE 300-1800
[9] STATICS: AUTSTA 300-1600
[2] GAIN: [ ] EXPONENTIAL [ ] GEOCOR
[*] [illegible]
[ ] VERTICAL SUMMATION ____ TO 1
[ ] HORIZONTAL SUMMATION ____ TO 1
[ ] BIMATION TO ____ MS.
[4] DECON BEFORE STACK: LEMST SQUARES
OPERATOR LENGTH 60 MS.
DESIGN GATE VARIABLE MS.
[5] FILTER: 11-16-60-70
[7] VELOCITY ANALYSIS: LINE SPREAD SINGLE FOLD
[8] NMO
[10] 612 FOLD CDP STACK. SB INTERVAL 55 FT
[ ] DECON AFTER STACK:
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
[3] FILTER: MLFIL 2300 74000 9
[ ] 6500 12000 13
[ ]
[ ]
[ ]
[ ]
[11] PHASE CORRECTION FILTER 12 182 2
[ ] TRACE NORMALIZE
[11] AGC 600 MS.

DISPLAY PARAMETERS

24 0 TR./INCH POLARITY [illegible]
TAPE NAME (OUT) PROD DIP -42040 BURST 1
PROCESSED BY [illegible] BURST 1

REMARKS

D1 -2640 FT D -2640 FT
SP 1-213 267 309 364 446 B: 4

RECORDING INSTRUMENTS

SYSTEM DFS IV NO. CHANNELS 53
FORMAT SEG B GAIN TYPE IFP
RECORD LENGTH 3 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 18 HZ SLOPE 18 DB/OCTAVE
HI 128 HZ SLOPE 72 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS NEG VALUES

PROCESSING SEQUENCE

[1] DEMULT
[8] DATUM 0 DATUM VEL. 10000 FT./SEC.
[6] STATICS: COMBAT. COMSTA GATE 300-1800
[9] STATICS: AUTSTA 300-1600
[2] GAIN: [ ] EXPONENTIAL [ ] GEOCOR
[•] NORMAL AMPLITUDES
[ ] VERTICAL SUMMATION ____ TO 1
[ ] HORIZONTAL SUMMATION ____ TO 1
[ ] BIMATION TO ____ MS.
[4] DECON BEFORE STACK: LEAST SQUARES
OPERATOR LENGTH 60 MS.
DESIGN GATE VARIABLE MS.
[5] FILTER: 11-16-60-70
[7] VELOCITY ANALYSIS: LONG SPREAD SINGLE FOLD
[8] NMO
[10] 612 FOLD CDP STACK, SB INTERVAL 65 FT
[ ] DECON AFTER STACK:
OPERATOR LENGTH ____ MS.
DESIGN GATE ____ MS.
[3] FILTER: FILFIL 2300 74000 9
[ ] 6500 138000 13
[ ]
[ ]
[ ]
[ ]
[11] PHASE CORRECTION FILTER 12 182 3
[ ] TRACE NORMALIZE
[11] AGC 600 MS.

DISPLAY PARAMETERS

64 0 TR./INCH POLARITY NORMAL
TAPE NAME (OUT) PROD CDP -46640 BURRSH 1
PROCESSED BY GEC BURRSH 1

REMARKS

D1 -2640 FT D +2640 FT
IP 1-213 267-309 364-446 BI 4

1 MILE = _____

SW 325 SP.

IMPERIAL OIL LTD.

GEOPHYSICS. DATA PROCESSING
CALGARY. ALBERTA

NE 1 SP.

LINE 78 1 24 -42041 AREA NORMAN WELLS

PART ONE OF ONE DATE 78-10-05

FIELD RECORDING - LAND

CONTRACTOR GSI PTY NO. 78 - 1 24
DATE SHOT MAR 31 + APR 3

ENERGY SOURCE

TYPE GEO GEL AND MAMFLEX
ARRAY LINEAR LENGTH MAMFLEX10
SHOT INTERVAL 220 + 440

SURVEY LOCATION

START OF LINE SP 325 LAT 63-13 LONG 126-54
DIRECTION OF SHOOTING NE

GEOPHONES

TYPE MARK NO. GROUPS 48
GEOPHONES/GROUP 2 GROUP INTERVAL 110
ARRAY LINEAR LENGTH 160

24 SP 25

2530 220 2530

RECORDING CONFIGURATION 24 24 SPLIT
DISTANCES IN [*] FEET [ ] METRES

RECORDING INSTRUMENTS

SYSTEM DFS IV NO. CHANNELS 54
FORMAT SEG B GAIN TYPE IFP
RECORD LENGTH 3 SEC. SAMPLE RATE 2 MS.
RECORD FILTERS LO 12 HZ SLOPE 18 DB/OCTAVE
HI 124HZ SLOPE 72 DB/OCTAVE

FIELD POLARITY: COMPRESSIONAL WAVE
RECORDED AS NEG VALUES

PROCESSING SEQUENCE

[1] DEMULT
[8] DATUM 0 DATUM VEL. 10000 FT./SEC.
[6] STATICS: CONSTCONSTH GATE 400-2400
[6] STATICS: AUTSTH GATE 300-1600
[2] GAIN: [ ] EXPONENTIAL [ ] GEOCOR
[*] NORMAL AGC 600 MS
[ ] VERTICAL SUMMATION _____ TO 1
[ ] HORIZONTAL SUMMATION _____ TO 1
[ ] BIMATION TO _____ MS.
[4] DECON BEFORE STACK : LEAST SQUARES
OPERATOR LENGTH 20 MS.
DESIGN GATE VARIABLE MS.
[6] FILTER : 11-16-50-70
[7] VELOCITY ANALYSIS : LONG SPREAD SINGLE FOLD
[8] NMO
[10] 61% FOLD CDP STACK. SB INTERVAL 66FT
[ ] DECON AFTER STACK :
OPERATOR LENGTH _____ MS.
DESIGN GATE _____ MS.
[3] FILTER : RAULFIL 2500 93900 96200-6000 9
[ ]
[ ]
[ ]
[ ]
[ ]
[11] PHASE CORRECTION FILTER 12 18 2 2
[ ] TRACE NORMALIZE
[11] AGC 600 MS.

DISPLAY PARAMETERS

24 0 TR./INCH POLARITY NORMAL
TAPE NAME (OUT) PROD GMP -42041 DERWRSH1
PROCESSED BY SBC DERWRSH1

REMARKS

DL-2640 DL+2640
SP 326-449 BY 4_ 147-126 BY 2
- 121-1 BY 4