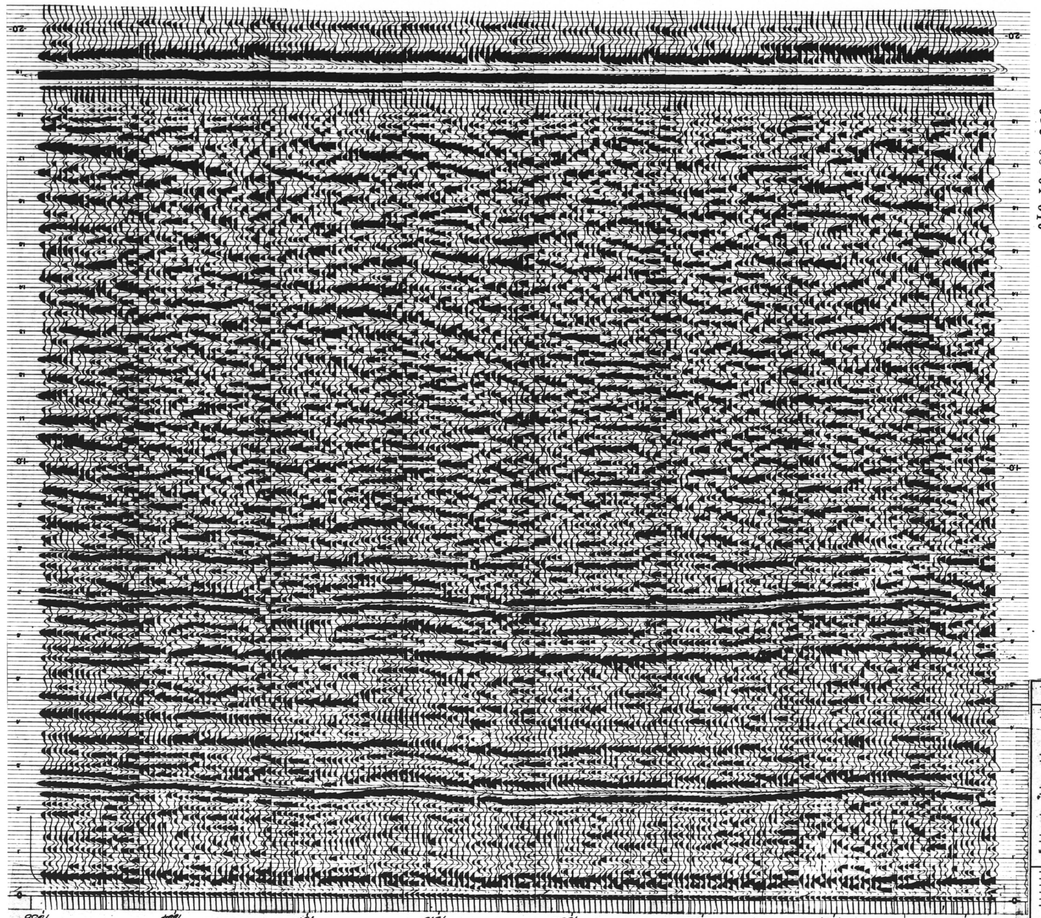
038-6-4-10-31

LINE - 200



139 - F83

51 Aa 07

HUDSON'S BAY OIL & GAS CO. LTD.

Husky Oil 34

PROJECT Shady Head 'A'
LINE 200
DATE 4-4-88

FIELD DATA
SHOT BY AE TYPE RECORDING DAT
OFFSETS GROUPINGS
RECEIVING TAPE SAMPLES GROUPINGS
SHOT SAMPLES NO. OF TRACES

DIGITAL PROCESSING
JOB NO. DAT 1054 DATE
VERIFICATION
NOMINAL MOVEOUT AND STATICS
VELOCITY SOURCE
REFERENCE TIME
ADJUSTED TRACE CORRECTION
CORRELATION COEFFICIENT
STACK
DECONVOLUTION NORMALIZATION
PREDICTION LENGTH
FREQUENCY
BIAS
FREQUENCY FILTER TIME VARIANT FILTER
OTHER PROCESSES

PLAYBACK
PLAYBACK FILTER 12-60 MIXING DCS

038-6-4-10-4

LINE 201

HUDSON'S BAY OIL & GAS CO., LTD.

Swede Cr. C

33

PROJECT Swede Creek 'C'
LINE 201
DATE 3-26-68

FIELD DATA
SHOT BY AE TYPE RECORDING SDP
OFFSETS TO
BASEMENT INTERVAL/TRACE
SOURCE SAMPLES DIMENSIONS
RECEPTORS SAMPLES DIMENSIONS
SWEEP NO. OF VIBRATORS

DIGITAL PROCESSING
JOB NO 8867 REEL NO 02945 ORDER
"VIBROSEIS" CORRELATION
NORMAL MOVEOUT AND STATICS
VELOCITY SOURCE
REFERENCE VB
ADJUSTED TRACE CORRECTION
WINDOW SEC
CORRELATION COEFFICIENT SHIFT
STACK
DECONVOLUTION ☒ NORMALIZATION ☐
WINDOW 2-4 SEC
OPERATOR LENGTH .150 SEC
FREQUENCY 8-40 CYCLES
BÉLE
FREQUENCY FILTER ☐ TIME VARIANT FILTER ☐
SEC CYCLES
SEC CYCLES
SEC CYCLES
OTHER PROCESSES

PLAYBACK
PLAYBACK FILTER 12-60 MIXING 25%

F112 Sec 196

9

51 16s 06

N

1261 1266 1272 1278 1284 1290 1296 1302 1308 1313

0

10

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

180

190

200

210

220

230

240

250

260

270

280

290

300

310

320

330

340

350

360

370

380

390

038-6-4-10-3

LINE - 202

HUDSON'S BAY OIL & GAS CO., LTD.

Swede Creek
(32)

PROJECT Swede Creek 'G'
LINE 202
DATE 2-26-68

FIELD DATA
SHOT BY RS TYPE RECORDING SDP
OFFSETS TO
BASEMENT INTERVAL/TRACE
SOURCE SAMPLES DIMENSIONS
RECEPTORS SAMPLES DIMENSIONS
SWEEP NO. OF VIBRATORS

DIGITAL PROCESSING
JOB NO 9662 REEL NO 24967 ORDER
"VIBROSEIS" CORRELATION
NORMAL MOVEOUT AND STATICS
VELOCITY SOURCE
REFERENCE VR
ADJUSTED TRACE CORRECTION
WINDOW SEC
CORRELATION COEFFICIENT SHIFT
STACK
DECONVOLUTION ☒ NORMALIZATION ☐
WINDOW 1.0-1.6 SEC
OPERATOR LENGTH .160 SEC
FREQUENCY 80/120 CYCLES
BALE
FREQUENCY FILTER ☐ TIME VARIANT FILTER ☐
SEC CYCLES
SEC CYCLES
SEC CYCLES

OTHER PROCESSES

PLAYBACK
PLAYBACK FILTER 12-60 MIXING 2&6

F112 Sec 145

S

51 103° 05' W

#00 #06 #12 #18 #24 #30 #36 #42 #48 #54

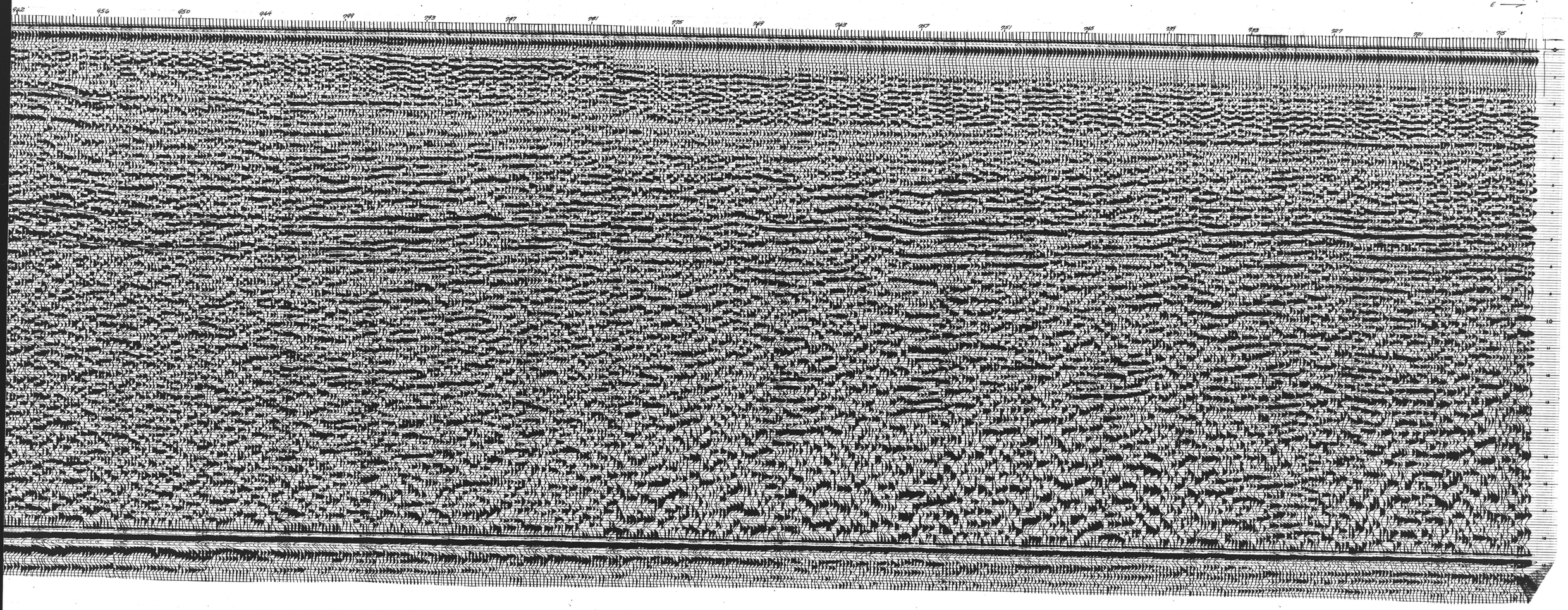
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LINE - 203

14 F112

51 /03 68



038-6-4-10-51

LINE - 203

HUDSON'S BAY OIL & GAS CO., LTD.

Swede Cr. (31)

PROJECT Swede Creek

LINE 203

DATE 2-26-68

FIELD DATA

SHOT BY AS TYPE RECORDING DOP

OFFSETS TO

BASEMENT INTERVAL/TRACE

SOURCE SAMPLES DIMENSIONS

RECEPTORS SAMPLES DIMENSIONS

SWEEP NO. OF VIBRATIONS

DIGITAL PROCESSING

JOB NO 8669 REEL NO 50471 ORDER

'VIBROSEIS' CORRELATION

NORMAL MOVEOUT AND STATICS

VELOCITY SOURCE

REFERENCE TO

ADJUSTED TRACE CORRECTION

WINDOW SEC

CORRELATION COEFFICIENT SHIFT

STACK

DECONVOLUTION NORMALIZATION

WINDOW .2 to 1.6 SEC

OPERATOR LENGTH 1.250 SEC

FREQUENCY 8-50 CYCLES

RATE

FREQUENCY FILTER TIME VARIANT FILTER

SEC CYCLES

SEC CYCLES

SEC CYCLES

OTHER PROCESSES

PLAYBACK

PLAYBACK FILTER 10-30 MIXING 25%

Sec 19 4 F 112

W

946 962 956 950 944 789 943 787 941 775 769 743 757 751 745 939 933 927

1

2

3

4

5

6

7

8

9

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11

12

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14

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16

17

18

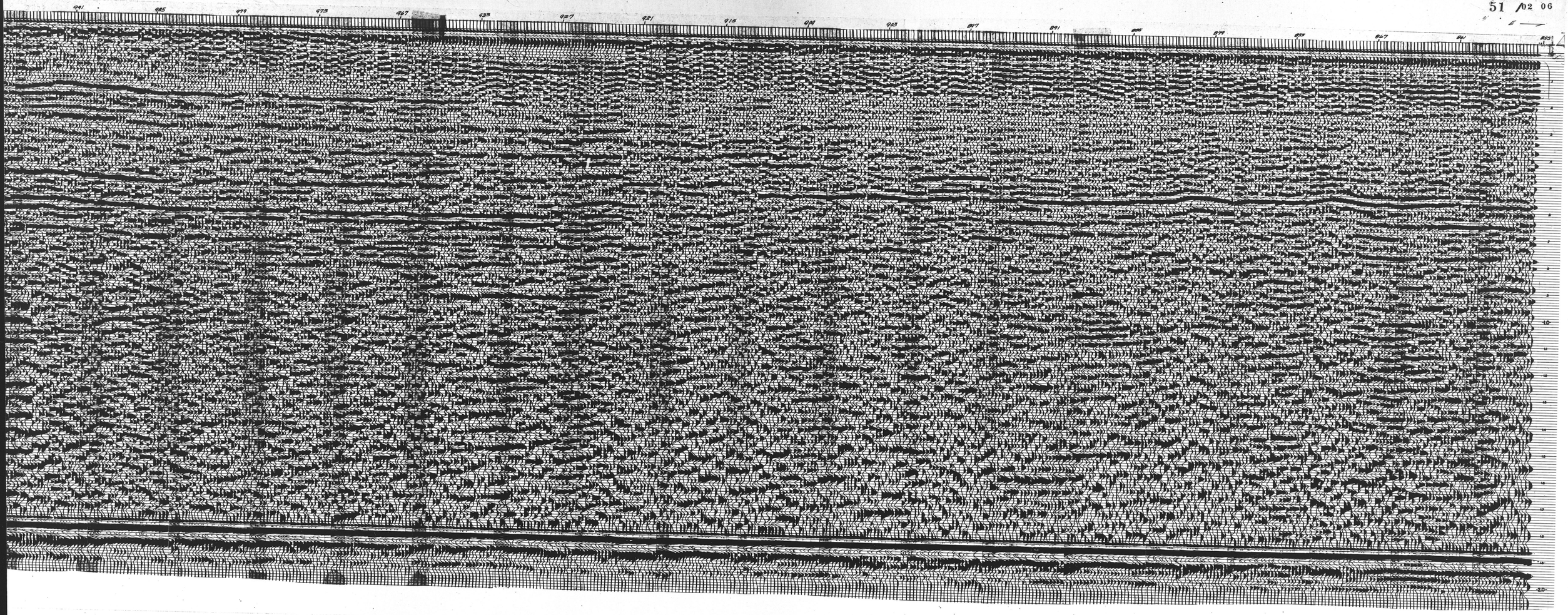
19

20

038-6-4-10-010

038-6-4-10 - 12

LINE - 204



038-6-4-10-12

LINE 204

HUDSON'S BAY OIL & GAS CO., LTD.

Swede Cr (30)

PROJECT Swede Creek
LINE 204
DATE 5-26-68

FIELD DATA

SHOT BY BS — TYPE RECORDING CAP
OFFSETS — TO —
BASEMENT INTERVAL/TRACE —
SOURCE SAMPLES — DIMENSIONS —
RECEPTORS SAMPLES — DIMENSIONS —
SWEEP — NO. OF VIBRATORS —

DIGITAL PROCESSING

JOB NO. 8670 REEL NO. 54979 ORDER
"VIBROSEIS" CONVOLUTION —
NORMAL MOVEOUT AND STATICS —
VELOCITY SOURCE — SHIFT —
REFERENCE — TO —
ADJUSTED TRACE CORRECTION —
WINDOW — SEC
CORRELATION COEFFICIENT — SHIFT
STACK —
DECONVOLUTION [X] NORMALIZATION [ ] 1
WINDOW 2-1.4 SEC
OPERATOR LENGTH 110 SEC
FREQUENCY 8-11-50 CYCLES
SAILS —
FREQUENCY FILTER [ ] TIME VARIANT FILTER [ ]
— SEC — CYCLES
— SEC — CYCLES
— SEC — CYCLES
OTHER PROCESSES

PLAYBACK

PLAYBACK FILTER 12-60 MIXING 28G

F112 Sec 1413

W

1009 1003 997 991 985 979 973 967 933 927 921 915 909 903 897 891 885 879

0 2 4 6 8 10 12 14 16 18 20

038-6-4-10-12

038-6-4-10-13

LINE - 205

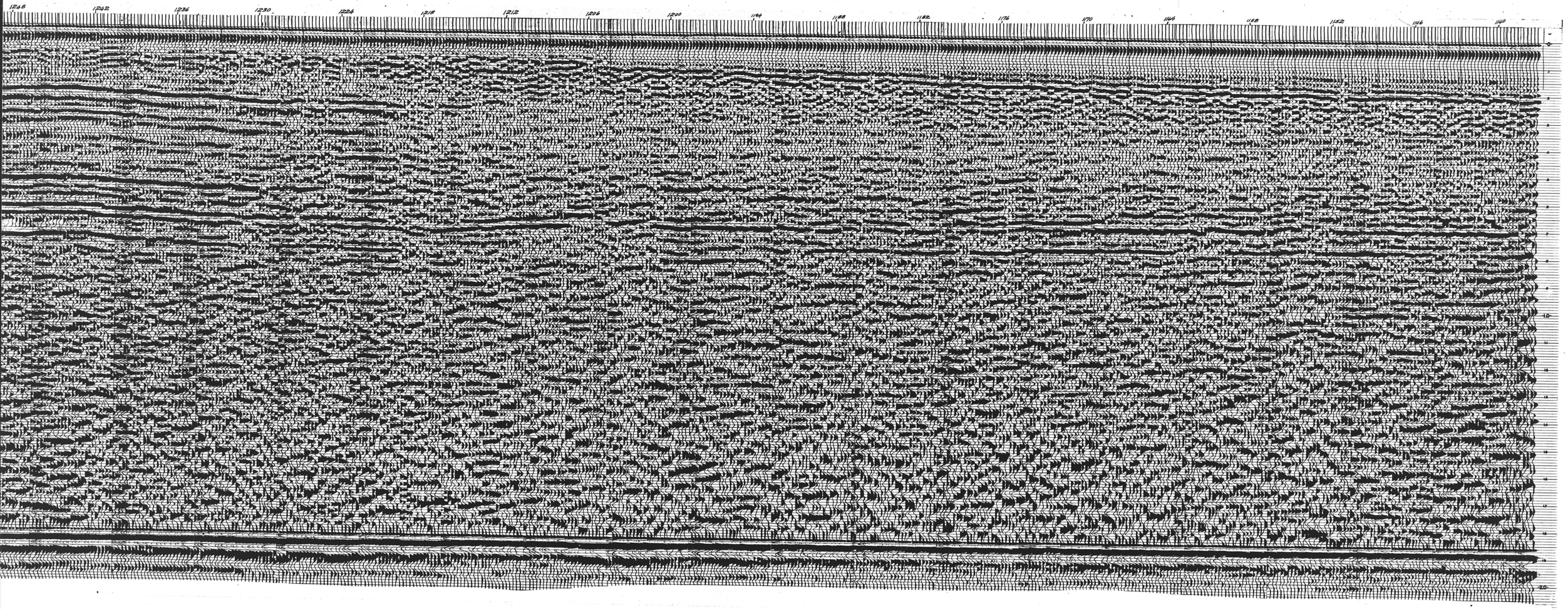
51 /02 04

E

038-6-4-10-11

LINE 206

51 42 03



038-6-4-10-11

LINE 206

HUDSON'S BAY OIL & GAS CO., LTD.
Swede Creek
(27)

PROJECT Swede Creek 'C'
LINE 206
DATE 3-26-68

FIELD DATA
SHOT BY RK TYPE RECORDING CDP
OFFSETS TO
BASEMENT INTERVAL/TRACE
SOURCE: SAMPLES DIMENSIONS
RECEPTORS: SAMPLES DIMENSIONS
SWEEP NO. OF VIBRATORS

DIGITAL PROCESSING
JOB NO 8672 REEL NO 10978 ORDER
"VIBROSEIS" CORRELATION
VELOCITY ANALYSIS: CDP OUT AND STATION
VELOCITY SOURCE
RESIDENTIAL STATICS Vs
ABSORPTION TRACE CORRECTION
WINDOW SEC
CORRELATION COEFFICIENT SHIFT
STACK
DECONVOLUTION ☒ NORMALIZATION ☐
WINDOW 2-1.6 SEC
OPERATOR LENGTH 180 SEC
FREQUENCY BAND CYCLES
SAND
FREQUENCY FILTER ☐ TIME VARIANT FILTER ☐
SEC CYCLES
SEC CYCLES
SEC CYCLES
OTHER PROCESSES

PLAYBACK
PLAYBACK FILTER A-G MIXING 856

F112 Sec 141

1254 1248 1242 1236 1230 1224 1218 1212 1206 1200 1194 1188 1182 1176 1170 1164 1158

038-06-04-010

038-6-4-10-10

LINE 207

SWEDE CR '0'
23

PROJECT Swede Creek '0'
LINE 207
DATE 25-68

FIELD DATA
SHOT BY BS TYPE RECORDING EDP
OFFSETS TO
BASEMENT INTERVAL/TRACE
SOURCE: SAMPLES DIMENSIONS
RECEPTORS: SAMPLES DIMENSIONS
SWEEP NO. OF VIBRATORS

DIGITAL PROCESSING
JOB NO BARR REEL NO 22956 ORDER
"VIBROSEIS" CORRELATION
NORMAL MOVEOUT AND STATICS
VELOCITY SOURCE
REFERENCE VR
ADJUSTED TRACE CORRECTION
WINDOW SEC
CORRELATION COEFFICIENT SHIFT
STACK
DECONVOLUTION ☒ NORMALIZATION ☐
WINDOW 2-7 SEC
OPERATION LENGTH 180 SEC
OPERATOR FREQUENCY 40-60 CYCLES
BASE
FREQUENCY FILTER ☐ TIME VARIANT FILTER ☐
SEC CYCLES
SEC CYCLES
SEC CYCLES

OTHER PROCESSES

PLAYBACK
PLAYBACK FILTER 12-60 MIXING 2856

161-F5
W

1437 1432 1426 1420 1414 1408 1402 1396 1390 1384 1378 1372 1366 1360 1354 1348 1342 1336

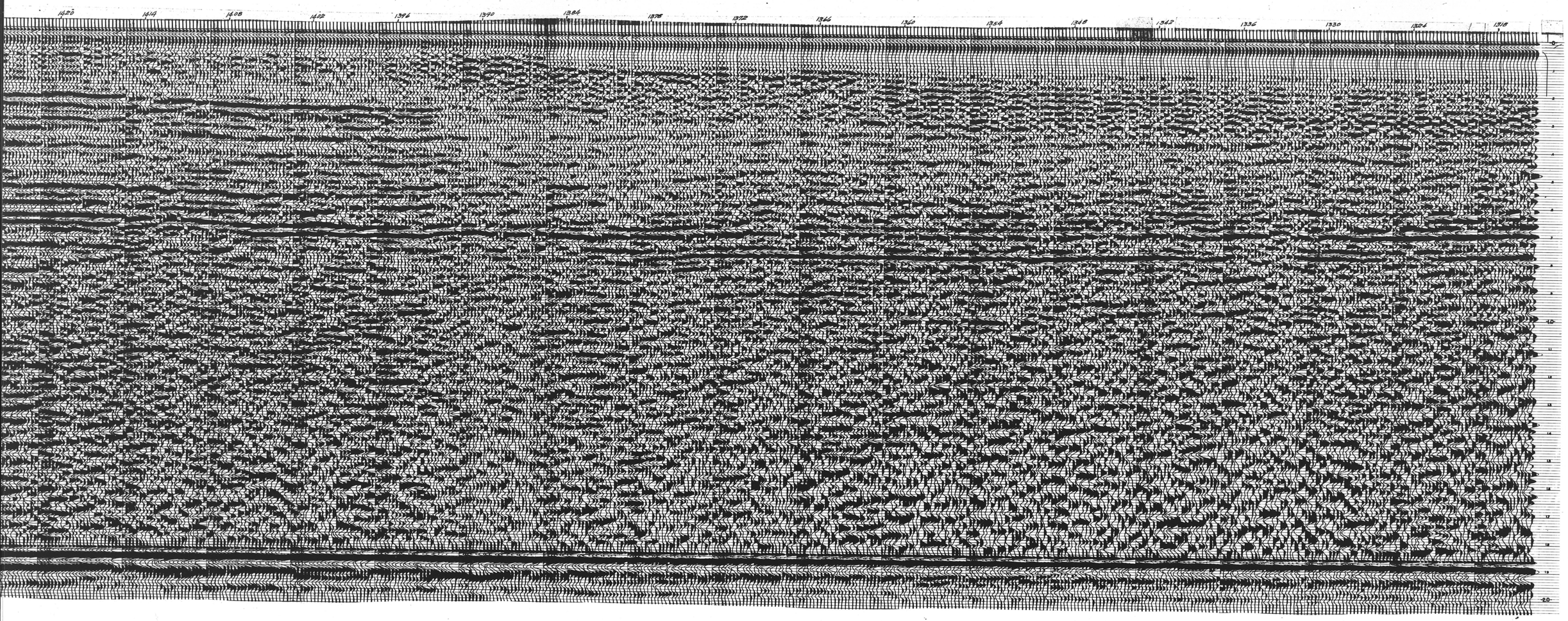
038-6-4-010

038-6-4-10-10

LINE 207

51 /03 09

E →



038-6-4-10-9

LINE 208

HUDSON'S BAY OIL & GAS CO., LTD.

Swede Cr. (24)

Project Swede Creek '9'
LINE 208
DATE 6-4-68

FIELD DATA
SHOT BY
OFFSET TYPE RECORDING
TO
BASEMENT INTERVAL/TRACE DIMENSIONS
SOURCE: SAMPLES DIMENSIONS
RECEPTORS: SAMPLES DIMENSIONS
SWEEP NO. OF VIBRATORS

DIGITAL PROCESSING
JOB NO 6854 REEL NO 60965 ORDER
"VIBROSEIS" CORRELATION
NORMAL MOVEOUT AND STATICS
VELOCITY SOURCE
REFERENCE V/S
ADJUSTED TRACE CORRECTION
SEC
CORRELATION COEFFICIENT SHIFT
STACK
DECONVOLUTION NORMALIZATION 1
WINDOW .8 to 1.4 SEC
OPERATOR LENGTH .150 SEC
FREQUENCY 8 to 60 CYCLES
BAILE
FREQUENCY FILTER TIME VARIANT FILTER
SEC CYCLES
SEC CYCLES
SEC CYCLES

OTHER PROCESSES

PLAYBACK
PLAYBACK FILTER 10-60 MIXING 856

W
140-F83

1555 1549 1543 1537 1531 1525 1519 1513 1507 1501 1495 1489 1483 1477 1471 1465 1459 1453

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

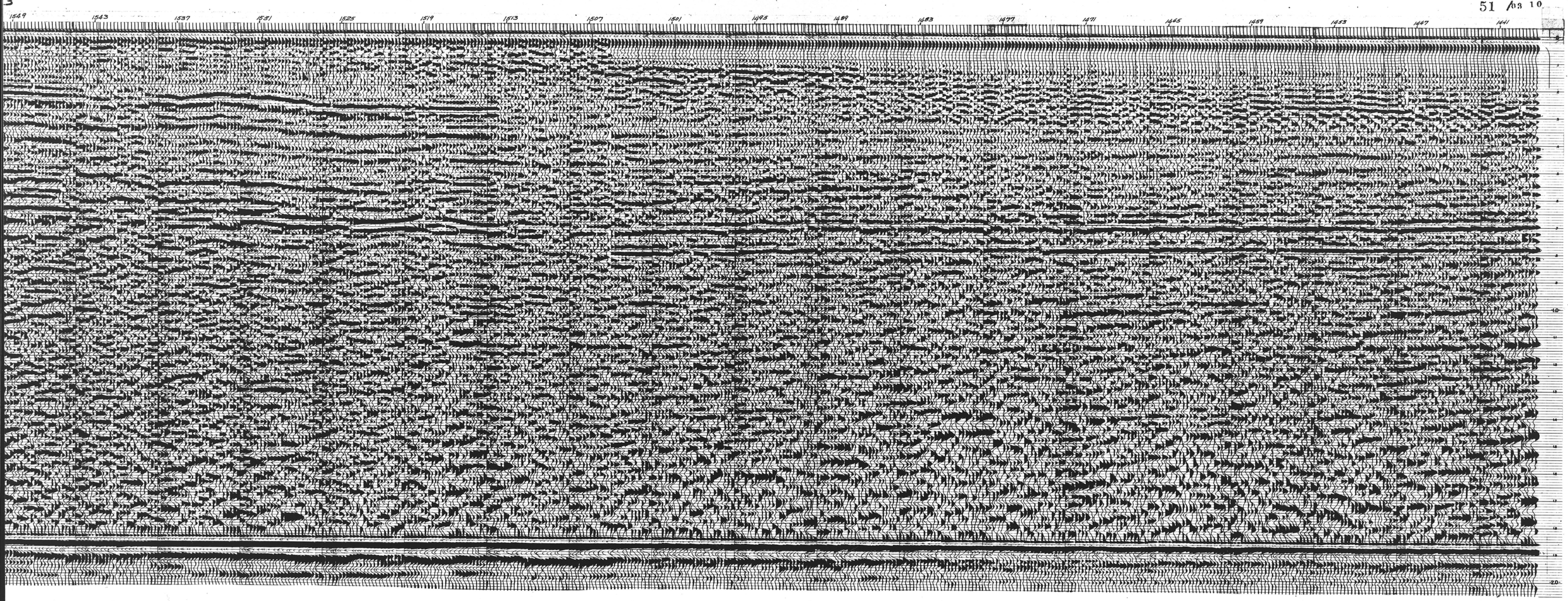
080-10-90-010

038-6-4-10-[redacted]9

LINE -208

190-F83

51 /83 10



038-6-4-10-8

LINE - 209

HUDSON'S BAY OIL & GAS CO., LTD.

Swede Cr

29

PROJECT Swede Creek 'C'
LINE 209
DATE 4-5-68

FIELD DATA
SHOT BY W.S. TYPE RECORDING GDP
OFFSETS TO
BASEMENT INTERVAL/TRACE
SOURCE: SAMPLES DIMENSIONS
RECEIVERS: SAMPLES DIMENSIONS
SWEEP NO. OF VIBRATORS

DIGITAL PROCESSING
JOB NO. 1565 REEL NO. 60856 ORDER
"VIBROSEIS" CORRELATION
NORMAL MOVEOUT AND STATICS
VELOCITY SOURCE
REFERENCE VR
ADJUSTED TRACE CORRECTION
WINDOW SEC
CORRELATION COEFFICIENT SHIFT
STACK
DECONVOLUTION ☒ NORMALIZATION ☐ 1
WINDOW .2 - 1.6 SEC
OPERATOR LENGTH .150 SEC
FREQUENCY 10-20-60-80 CYCLES
SAVE
FREQUENCY FILTER ☐ TIME VARIANT FILTER ☐
SEC CYCLES
SEC CYCLES
SEC CYCLES

OTHER PROCESSES

PLAYBACK
PLAYBACK FILTER 10-20 MIXING 25.6

160 - ~~F1~~
W

51 1/02 05
E

1655 1649 1643 1637 1631 1625 1619 1613 1607 1601 1595 1589 1583 1577 1571 1565 1559

0 10 11 12 13 14 15 16 17 18 19 20

038-06-04-010

038-6-4-10-17

LINE - 211

HUDSON'S BAY OIL & GAS CO., LTD.

Swede Cr 'C'
(25)

PROJECT SWEDE CREEK
LINE 211
DATE 4-16-68

FIELD DATA

SHOT BY BS TYPE RECORDING CDP
OFFSETS TO
BASEMENT INTERVAL/TRACE
SOURCE SAMPLES DIMENSIONS
RECEPTORS SAMPLES DIMENSIONS
SWEEP NO. OF VIBRATORS

DIGITAL PROCESSING

JOB NO 8218A REEL NO 9963 ORDER
"VIBROSEIS" CORRELATION
NORMAL MOVEOUT AND STATICS
VELOCITY SOURCE
REFERENCE VB
ADJUSTED TRACE CORRECTION
WINDOW SEC
CORRELATION COEFFICIENT SHIFT
STACK
DECONVOLUTION ☒ NORMALIZATION ☐
WINDOW SEC
OPERATOR LENGTH SEC
FREQUENCY CYCLES
GAIN
FREQUENCY FILTER ☐ TIME VARIANT FILTER ☐
SEC CYCLES
SEC CYCLES
SEC CYCLES

OTHER PROCESSES

PLAYBACK
PLAYBACK FILTER 10-60 MIXING 256

038-00-01-010

159 ~~E'~~ W

51 E

1811 1807 1801 1795 1789 1783 1777 1771 1765 1759 1753 1747 1741 1735 1729 1723 1717 1711 1705

0 5 10 15 20

038-6-4-10-1

LINE -212

HUDSON'S BAY OIL & GAS CO., LTD.

SWEDE CR. (2)

PROJECT SWEDE CREEK 'D'
LINE 212
DATE 8-12-67

FIELD DATA
SHOT BY F.B.S. TYPE RECORDING CDP 24
OFFSETS TO
BASEMENT INTERVAL/TRACE
SOURCE: SAMPLES DIMENSIONS
RECEPTORS: SAMPLES DIMENSIONS
SWEEP NO. OF VIBRATORS

DIGITAL PROCESSING
JOB NO. 68158 REEL NO. 30944 ORDER
"VIBROSEIS" CORRELATION 3
NORMAL MOVEOUT AND STATICS
VELOCITY SOURCE
REFERENCE TO 6000'
ADJUSTED TRACE CORRECTION
WINDOW SEC
CORRELATION COEFFICIENT SHIFT
STACK
DECONVOLUTION NORMALIZATION
WINDOW 2" to 4 SEC
OPERATOR LENGTH 180 SEC
FREQUENCY 12-45 CYCLES
BALE
FREQUENCY FILTER TIME VARIANT FILTER
SEC CYCLES
SEC CYCLES
SEC CYCLES

OTHER PROCESSES
TR

PLAYBACK
PLAYBACK FILTER 10-60 MIXING

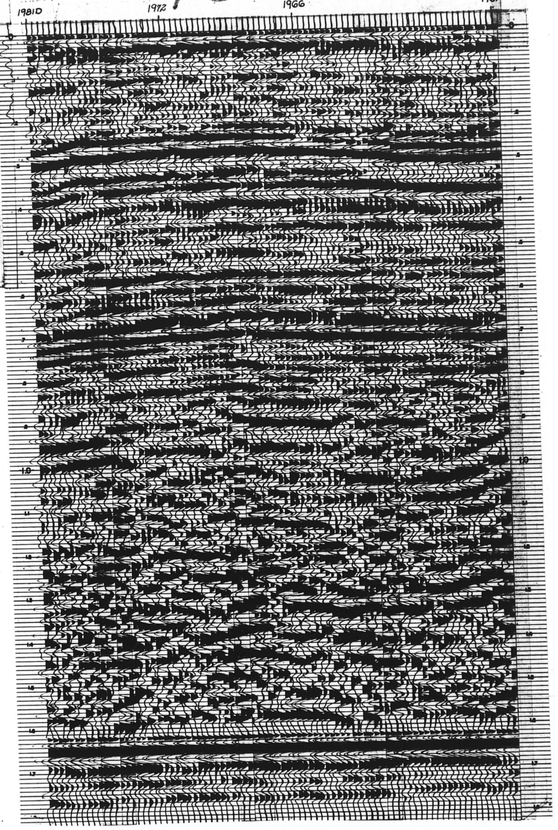
W

70-E-15

E

50 40 30

1980 1972 1966 1959



038-6-4-10-6

LINE - 213

MINNES RAY OIL & GAS CO., LTD.

Swede Creek (26)

PROJECT Swede Creek -C
LINE 213
DATE 4-16-68

FIELD DATA
SHOT BY BS TYPE RECORDING CDP
OFFSETS TO
BASEMENT INTERVAL/TRACE
SOURCE SAMPLES DIMENSIONS
RECEPTORS SAMPLES DIMENSIONS
SWEEP NO OF VIBRATORS

DIGITAL PROCESSING
JOB NO 819A REEL NO 90965 ORDER
"VIBROSEIS" CORRELATION
NORMAL MOVEOUT AND STATICS
VELOCITY SOURCE
REFERENCE
ADJUSTED TRACE CORRECTION VR
WINDOW SEC
CORRELATION COEFFICIENT SHIFT
STACK
DECONVOLUTION ☒ NORMALIZATION ☐ T
WINDOW 2.18 SEC
OPERATOR LENGTH 150 SEC
FREQUENCY 8-50 CYCLES
GAIN
FREQUENCY FILTER ☐ TIME VARIANT FILTER ☐
SEC CYCLES
SEC CYCLES
SEC CYCLES

OTHER PROCESSES

PLAYBACK
PLAYBACK FILTER 10-60 MIXING 256

010-0-00-080

158-F1

W

51 1/02 02

E

1915 1910 1904 1898 1892 1886 1880 1874 1868 1862 1856 1850 1844 1838 1832 1826 1820 1814

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
JAN 20 1970
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

Report

on a

REFLECTION SEISMOGRAPH SURVEY

conducted in

SWEDE CREEK AREA, N.W.T.

Permits: 3215 and 3216

for

HUDSON'S BAY OIL AND GAS COMPANY LIMITED

by

CANWEST GEOPHYSICAL LIMITED

February, 1969

Project No. Unassigned

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Slave Point Time Structure . . . . . Page 11

PreCambrian Time Structure . . . . . Page 12

Ft. Simpson to Slave Point Time Interval . . Page 13

Slave Point to PreCambrian Time Interval . . Page 14

Ft. Simpson to PreCambrian Time Interval . . Page 15

STATISTICAL DATA

Dates:

Crew Mobilized:	February 10, 1969
Starting Date:	February 12, 1969
Completion Date:	February 13, 1969
Crew Released:	February 13, 1969

Production:

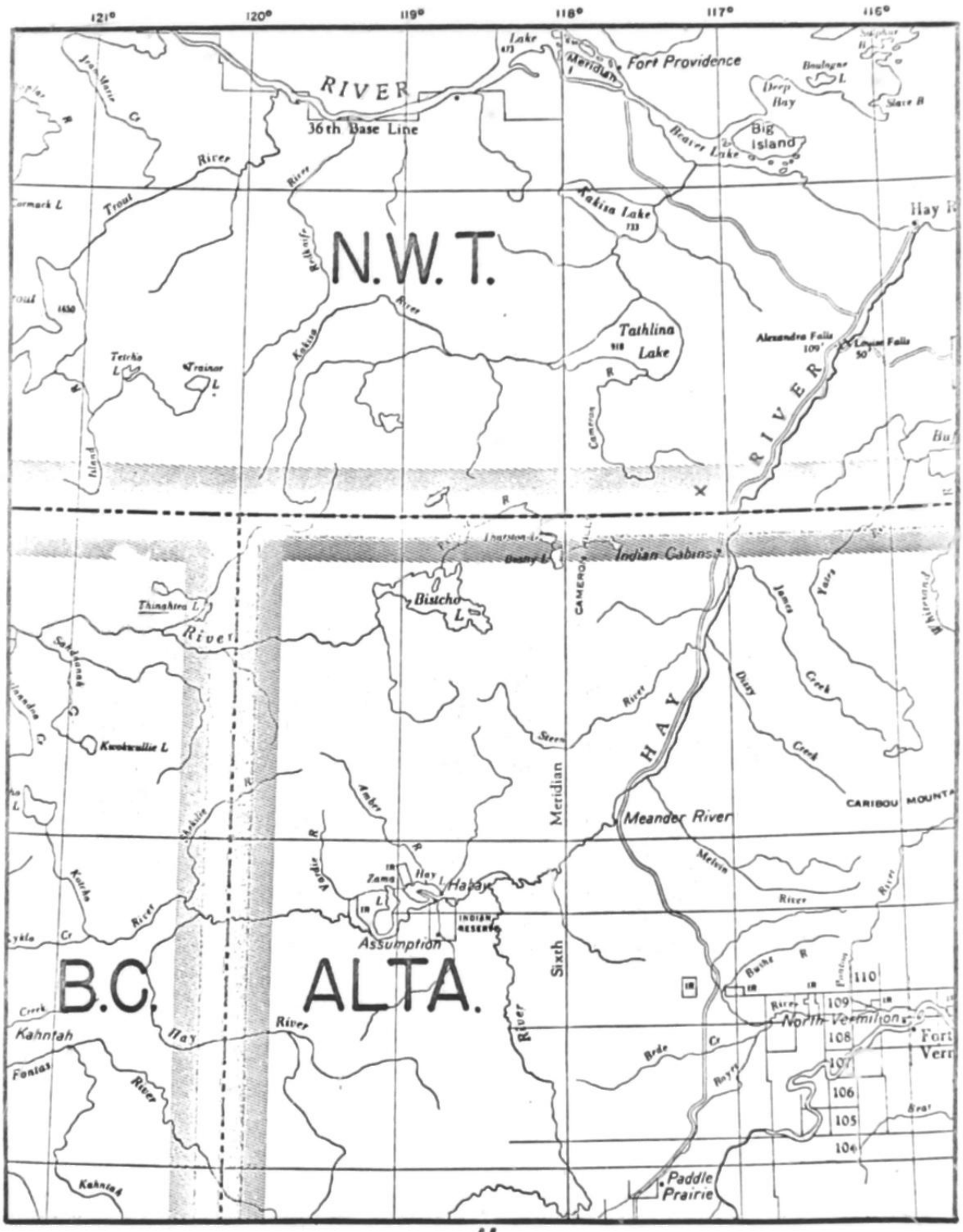
Miles Surveyed:	5.0
Number of Shots:	59
Number of Profiles:	59
Miles Per Day:	2.5
Profiles Per Day:	29.5
Days Worked:	2.0

Equipment:

Automotive Units:	Dodge 350 (4 x 4)
Type Instruments:	Electrotech SA 400
Tape System:	MFR-11
Geophones:	Mark L-2 24Hs
Drills:	2 rotary, 1 auger
Bulldozer:	Caterpillar D6C

Personnel:

Party Manager:	J. V. Hampson
Observer:	R. Merchant
Shooter:	J. Kilcup
Surveyor:	R. Desjarlais



N

× LOCATION OF PROSPECT

SCALE : 1 TO 2,000,000

SWEDE CREEK

PLATE I

60°05'

117°15'

224

212

225

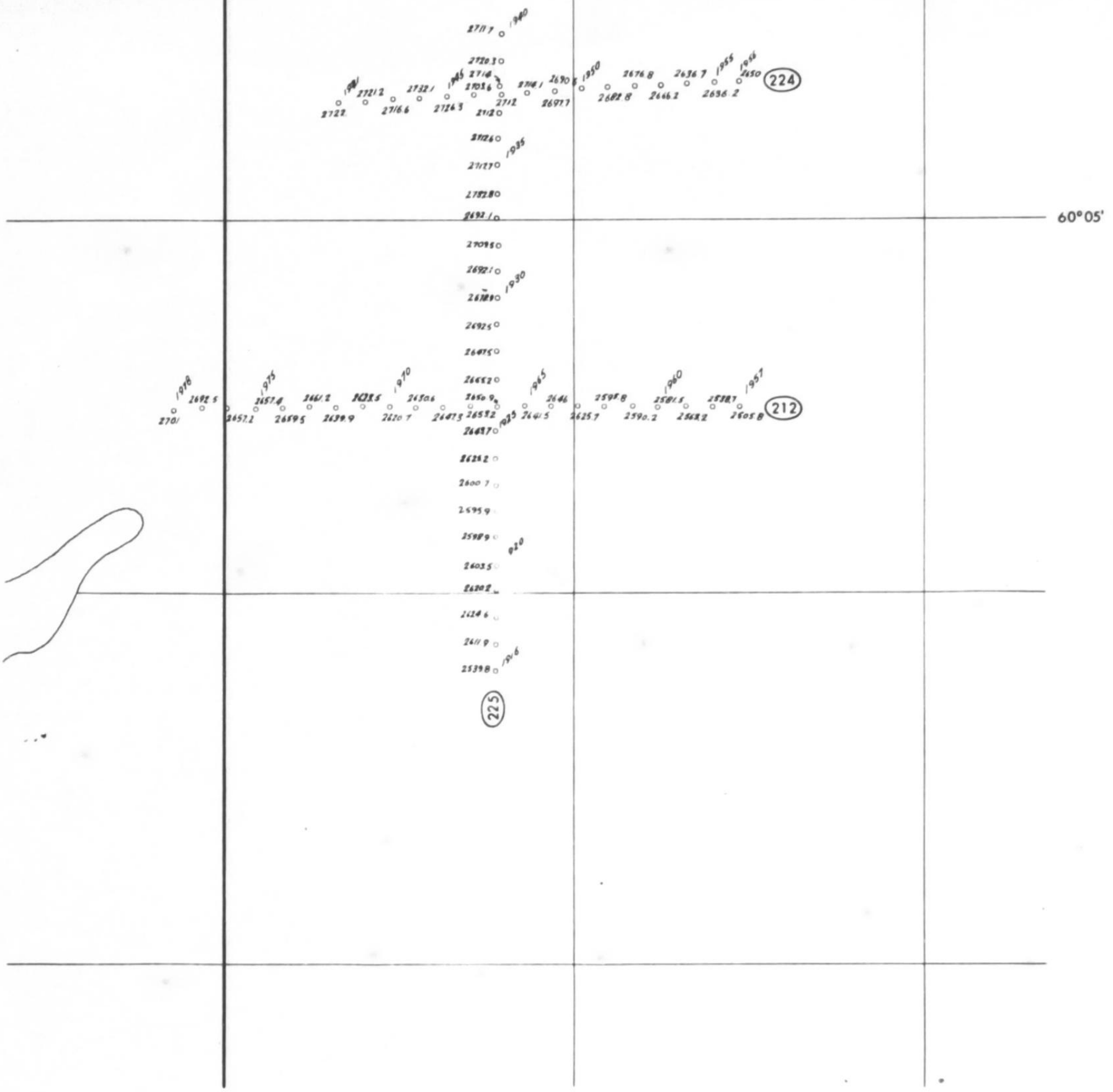
1 of

Hudson's Bay Oil and Gas Company Limited

EXPLORATION DEPARTMENT

CALGARY, ALBERTA

SWEDE CREEK "D"



Hudson's Bay Oil and Gas Company Limited

EXPLORATION DEPARTMENT

CALGARY, ALBERTA

SWEDE CREEK "D"

GEOPHYSICAL MAP

SURFACE ELEVATIONS

CONTOUR INTERVAL ... sec. ... FEET ... CONTOUR

TIME OF INTERVAL ... sec. ... THICKNESS OR DEPTH ... FEET

ELEVATION REFERENCE ... VELOCITY ... FEET/sec.

AUTHORS AFFILIATION OF MAP SOURCE

SCALE 1" = 2000' AUTHOR L.S. BUCKIE DATE NOV. 1969

FILE No.

2 of 2

Navigation:

All shot points were surveyed on closed traverse by transit and stadia. All spreads chained and checked by stadia. Previous shot points were used as control points.

Conditions:

Weather was normal for the area and season. Terrain was extremely rough. Personnel were housed in commercial accommodations on the Mackenzie Highway. All communication was by regular commercial facilities.

FIELD PROCEDURE

Project was shot using 24 trace straddle spreads. A geophone interval of 220 feet gave a spread length of 2640-0-2640 feet. Single holes at 440 foot intervals were shot with 5 lbs. at 50 feet to yield 600% coverage. Lines were begun and ended as 24 trace single-ended spreads, the shot point being shifted relative to the spread.

DATA PROCESSING

Computations:

Computations were done to reduce the raw field data to a reference plane or datum. Corrections for use on the field paper records were computed. Corrections were also computed to be used as input to the digital computer programs which were used to process the magnetic tape recordings of the field data. These computations were done in the offices of Western Geophysical Company of Canada at 1024 - 11th Avenue, S.W., Calgary, Alberta.

The datum plane used was +1700 feet. Weathering velocity used was 2500'/second. The shot to datum velocity used was 7500'/second. Corrections were not made for any intermediate low velocity layers.

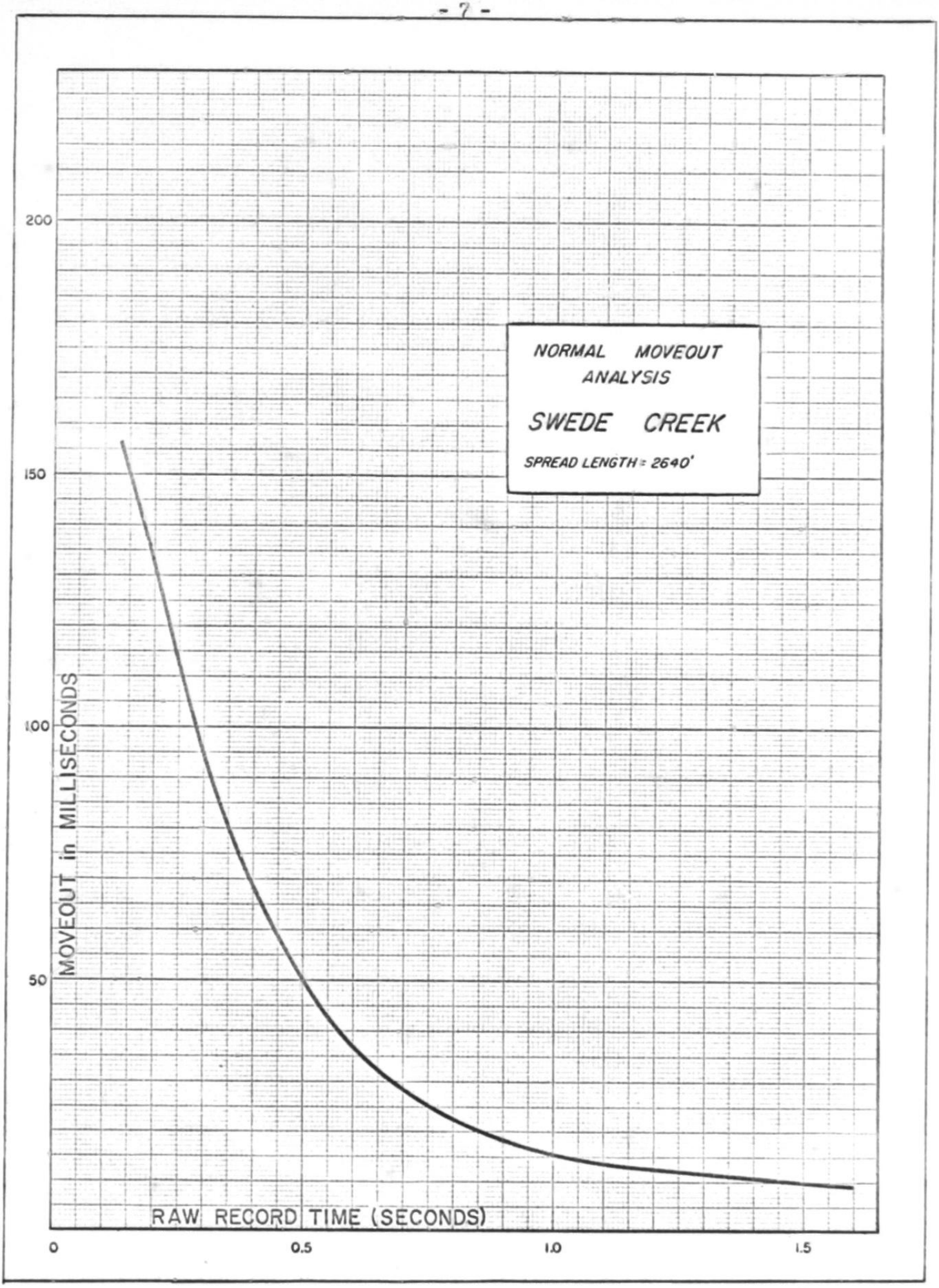
Processing:

Stacked 600% time structural record sections were made at Western Geophysical Company's playback centre in Shreveport, Louisiana, U.S.A. The analog field tapes were converted to digital tape format and processed on a digital computer. The sample rate was 2 milliseconds. Input data, other than the digital tapes, were prepared in Calgary, as described above. The normal curve used was determined empirically from previous work shot in the same area. For a copy of the function submitted, see Plate II. For a copy of the stacking diagram, see Plate III. The following processes

were applied to the data:

Normal moveout correction
Static corrections
Common depth point stacking
Mix - 18%
Band pass filter - 18-52.5 Hz. (50 points)

The results were plotted on film with a variable area superimposed on wiggle trace.



Western

PLATE II

SWEDE CREEK "D"

SURFACE BY GROUP NUMBER

(Maximum Spread One way 5060)



SUBSURFACE BY TRACE NUMBER



PLATE III

RESULTS AND INTERPRETATION

Three reflections only were judged reliable enough for mapping on this detail project. These are:

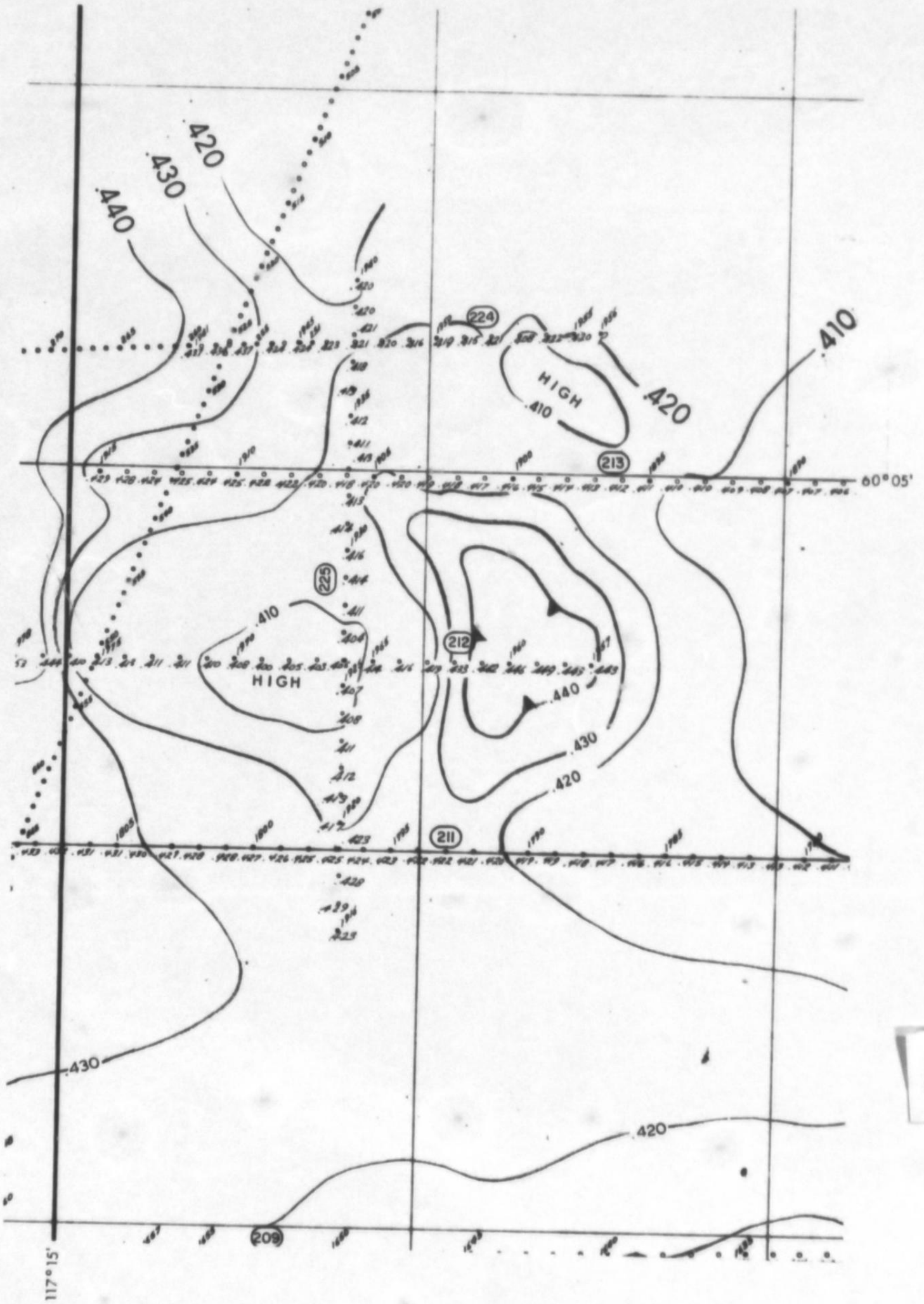
Approximate Fort Simpson Shale
Slave Point
PreCambrian

The time interval maps were also calculated from the reflection times. These are:

Fort Simpson to PreCambrian
Fort Simpson to Slave Point
Slave Point to PreCambrian

The structure maps show a basement high trending north-east-southwest across the area. The upper beds show the same general configuration.

The interval maps show an overall thinning over this feature. The lower interval shows an increase in section over portions of the basement high. The upper interval shows a lesser thickness west of Line 225 between Lines 212 and 213.



1 of

Hudson's Bay Oil and Gas Company Limited

EXPLORATION DEPARTMENT

CALGARY · ALBERTA



Hudson's Bay Oil and Gas Company Limited

EXPLORATION DEPARTMENT

CALGARY ALBERTA

SWEDE CREEK "D"

GEOPHYSICAL STRUCTURE MAP

APPR. FT. SIMPSON SHALE

CONTOUR INTERVAL 0.010 sec. (50' for V. = 9900'/sec.)

TIME or INTERVAL .390 sec. THICKNESS or DEPTH 1930 ft.

ELEVATION REFERENCE 1700 ft. VELOCITY 7500'/sec.

SCALE 1 = 2000'	AUTHOR L.S. BUCKIE	DATE DEC. 1969
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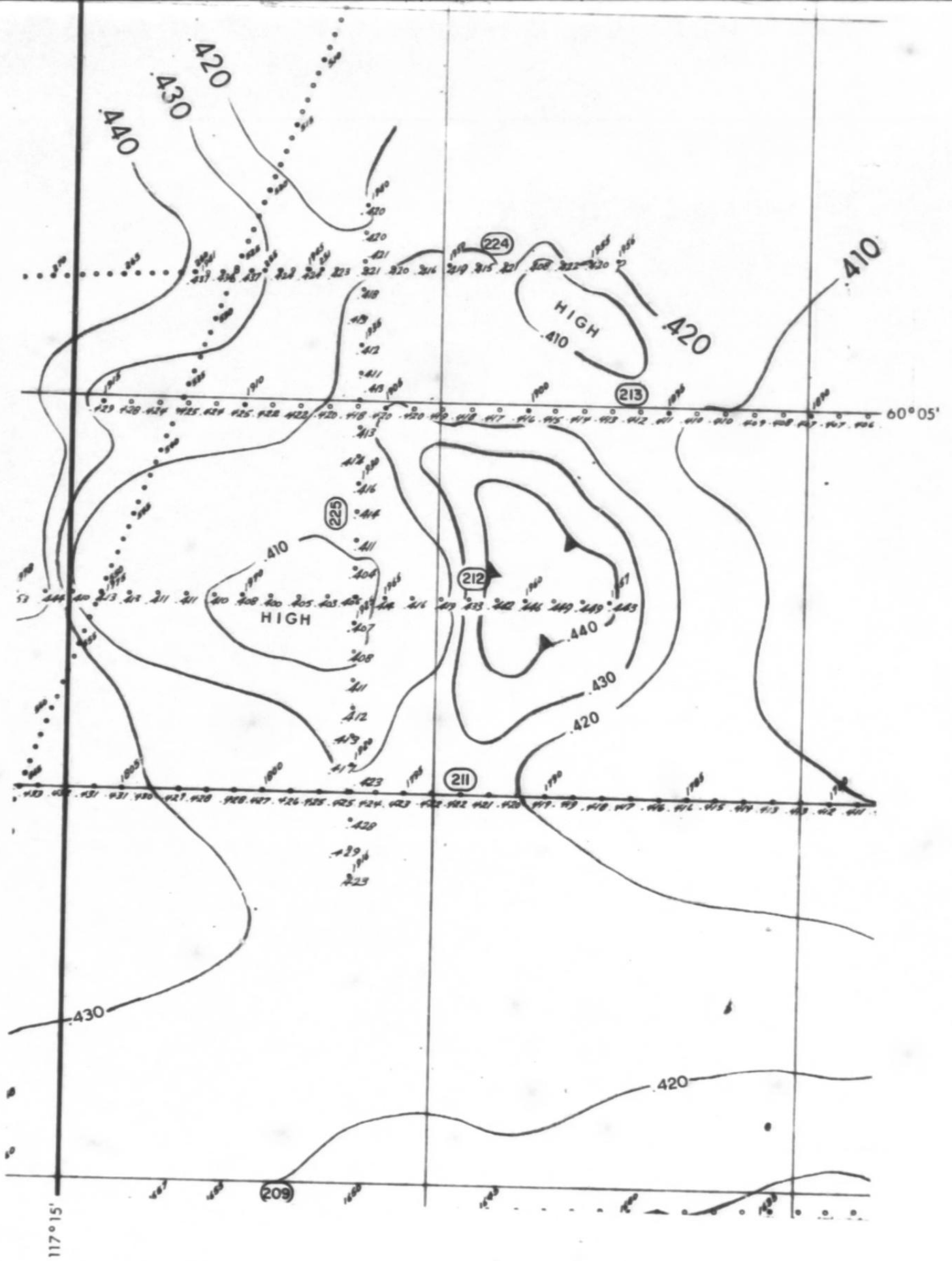


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SWEDE CREEK "D"

GEOPHYSICAL STRUCTURE MAP

APPR. FT. SIMPSON SHALE

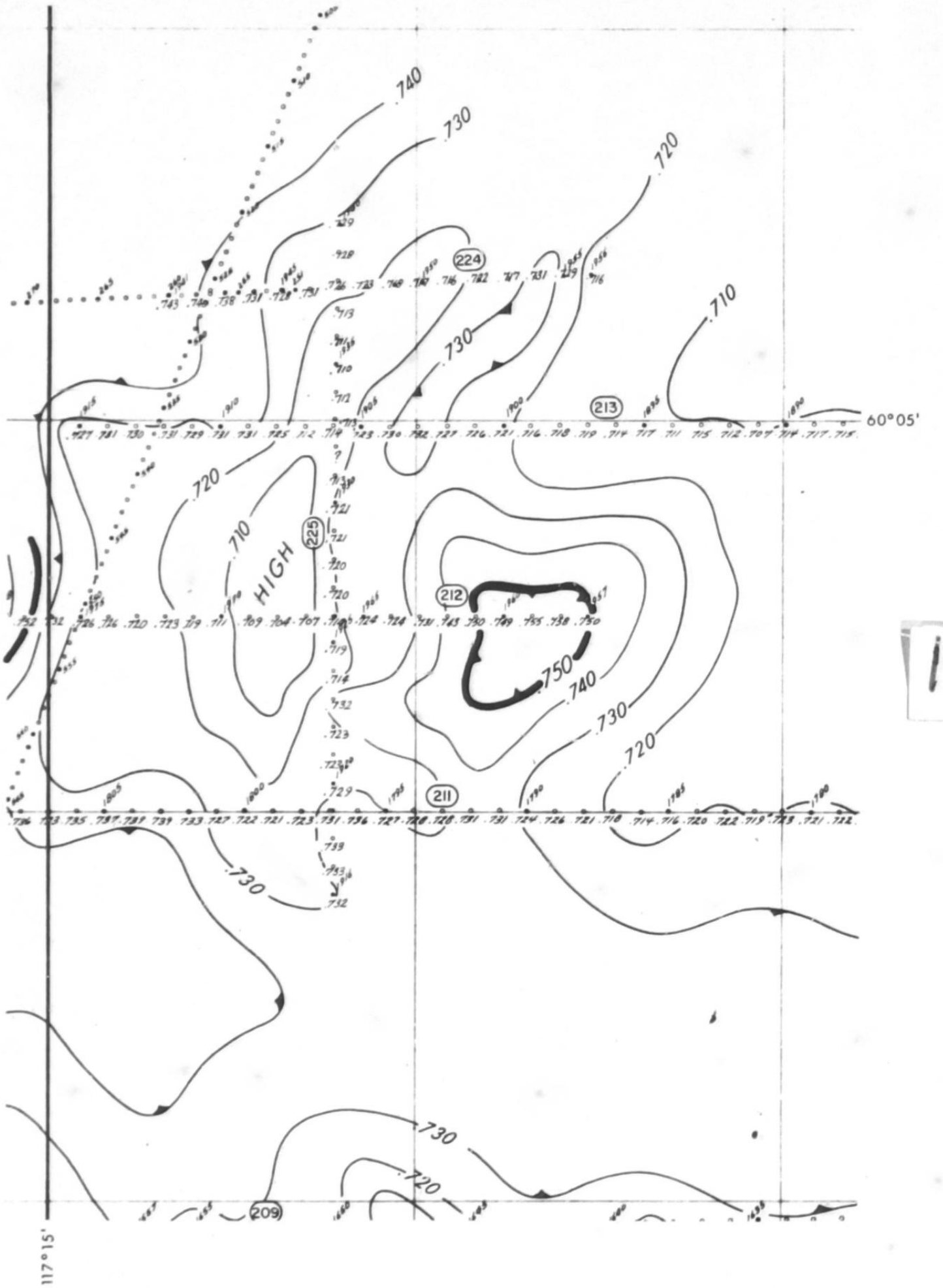
CONTOUR INTERVAL 0.010 sec. (50' for V. = 9900'/sec.)

TIME or INTERVAL .390 sec. THICKNESS or DEPTH 1930 ft.

ELEVATION REFERENCE 1700 ft. VELOCITY 7500'/sec.

SCALE 1 = 2000'	AUTHOR L.S. BUCKIE	DATE DEC. 1969
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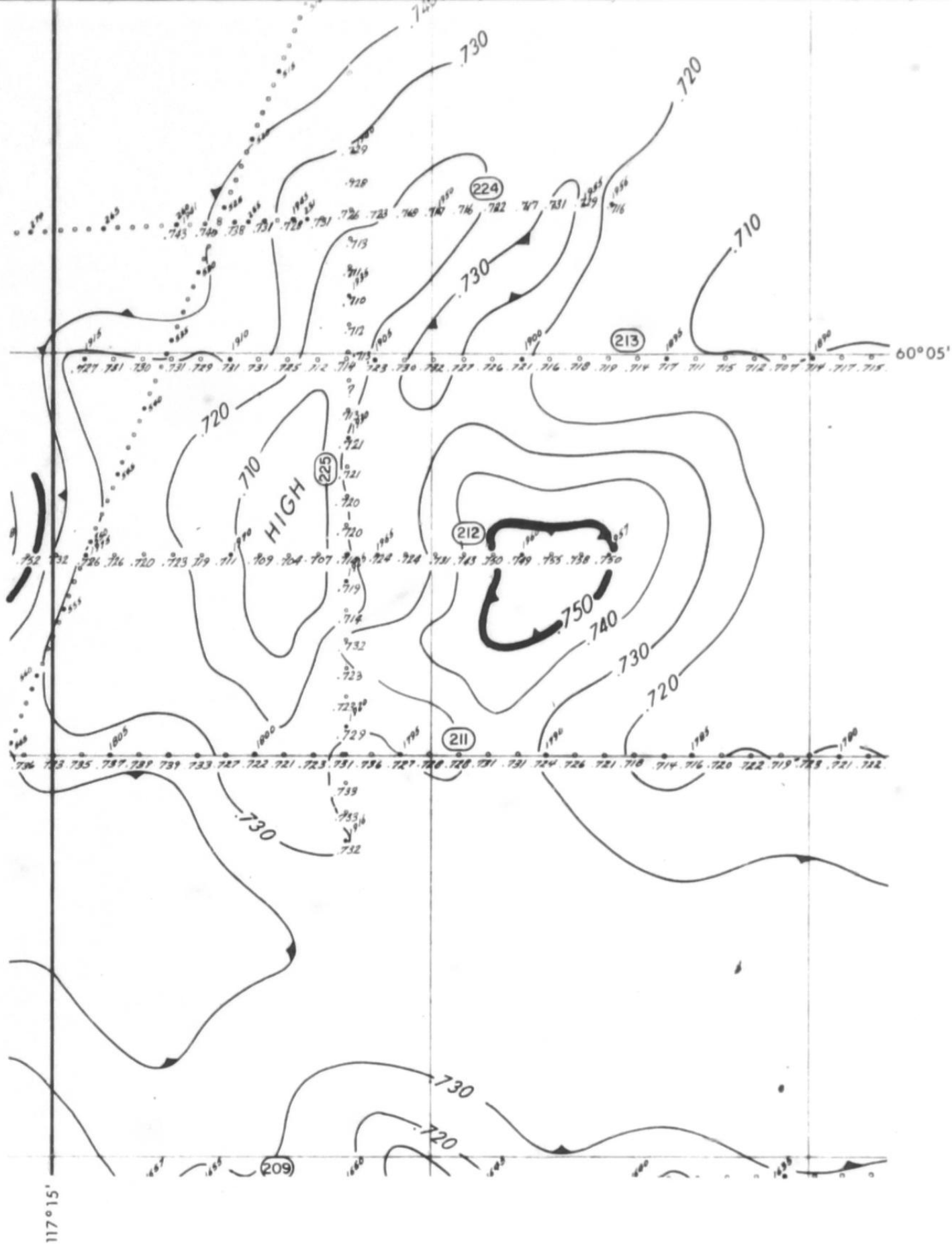
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SWEDE CREEK "D"

GEOPHYSICAL STRUCTURE MAP



Hudson's Bay Oil and Gas Company Limited

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SWEDE CREEK "D"

GEOPHYSICAL STRUCTURE MAP

SLAVE POINT

CONTOUR INTERVAL 0.010 sec. (52' for V. = 10380'/sec.)

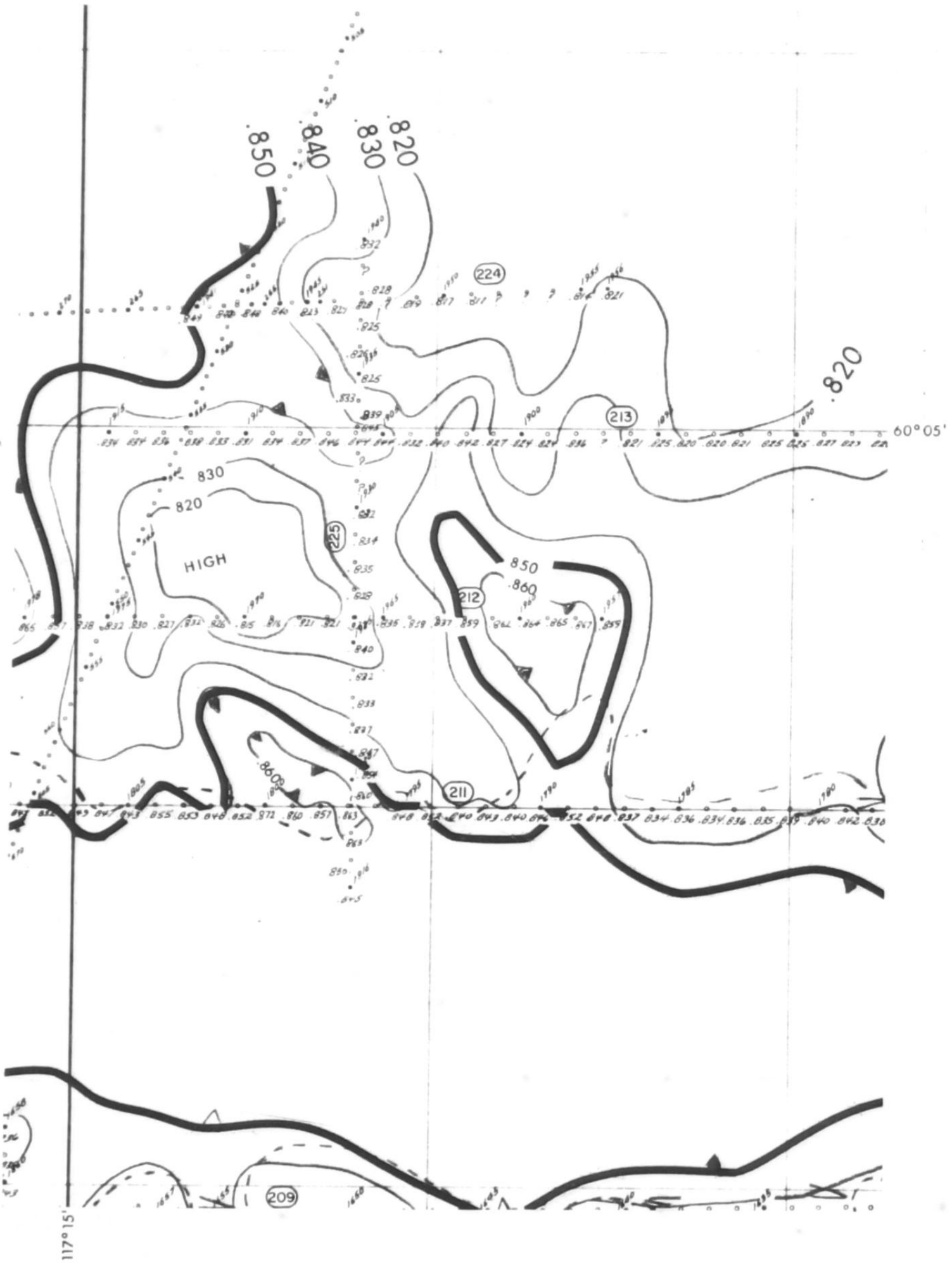
TIME or INTERVAL .710 sec. THICKNESS or DEPTH 3685 ft.

ELEVATION REFERENCE 1700 ft. VELOCITY 7500'/sec.

SCALE : 1 = 2000'	AUTHOR L.S. BUCKIE	DATE . DEC. 1969
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SWEDE CREEK "D"

GEOPHYSICAL STRUCTURE MAP

PRECAMBRIAN

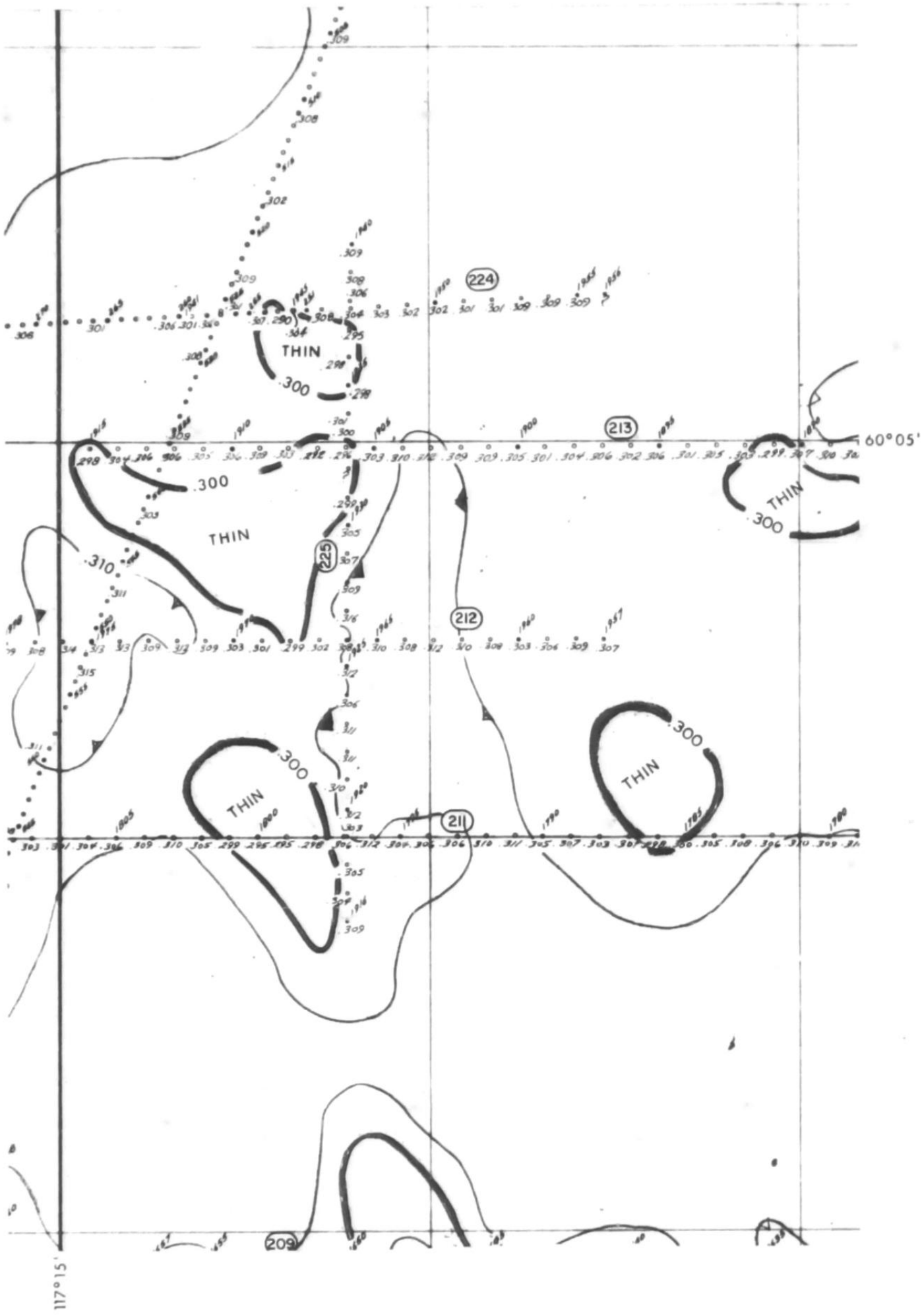
CONTOUR INTERVAL 0.010 sec. (59' for V. = 11730'/sec.)

TIME or INTERVAL .830 sec. THICKNESS or DEPTH 4870 ft.

ELEVATION REFERENCE 1700 ft. VELOCITY 7500'/sec.

SCALE 1 = 2000'	AUTHOR L.S. BUCKIE	DATE DEC. 1969
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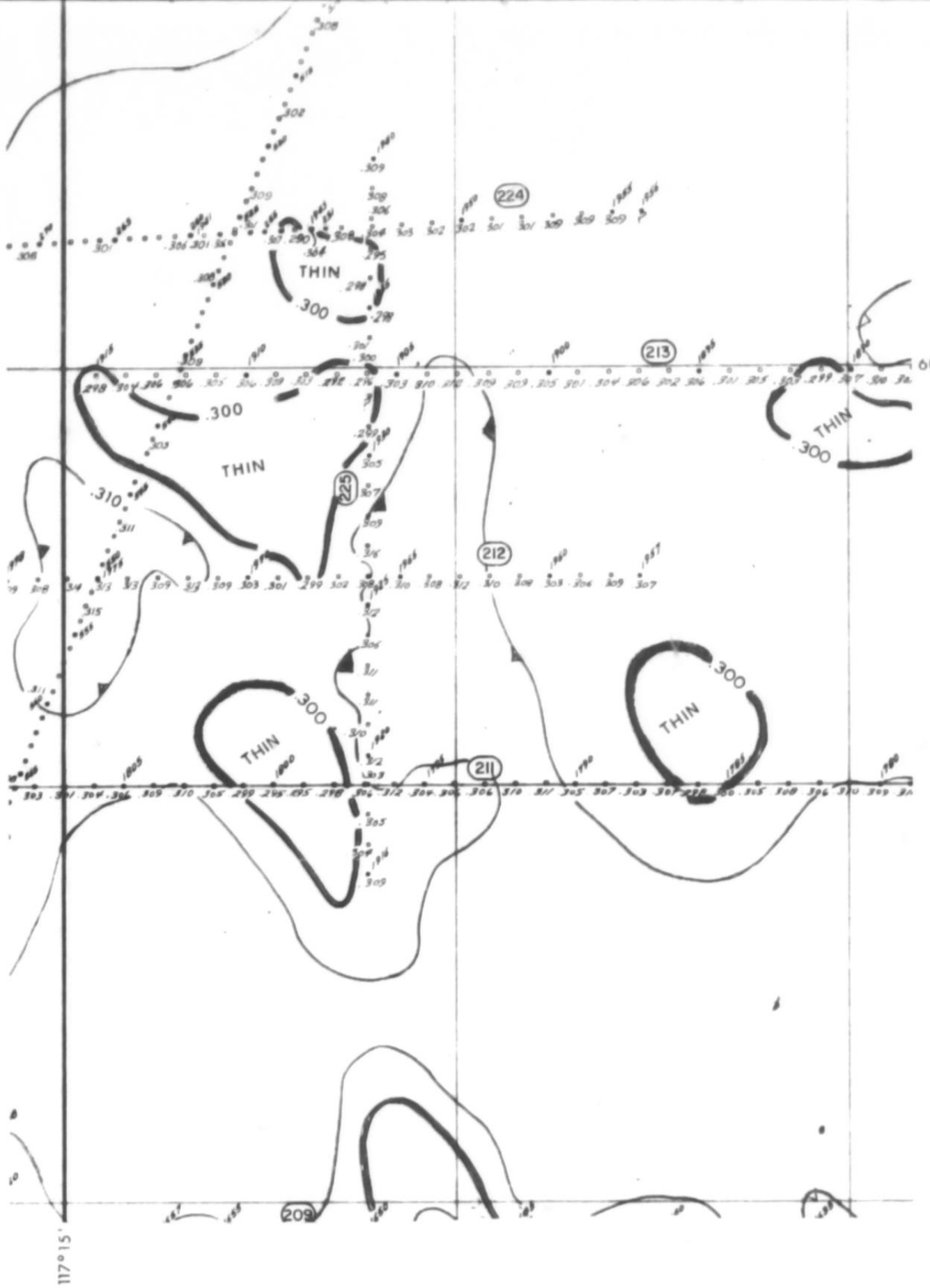


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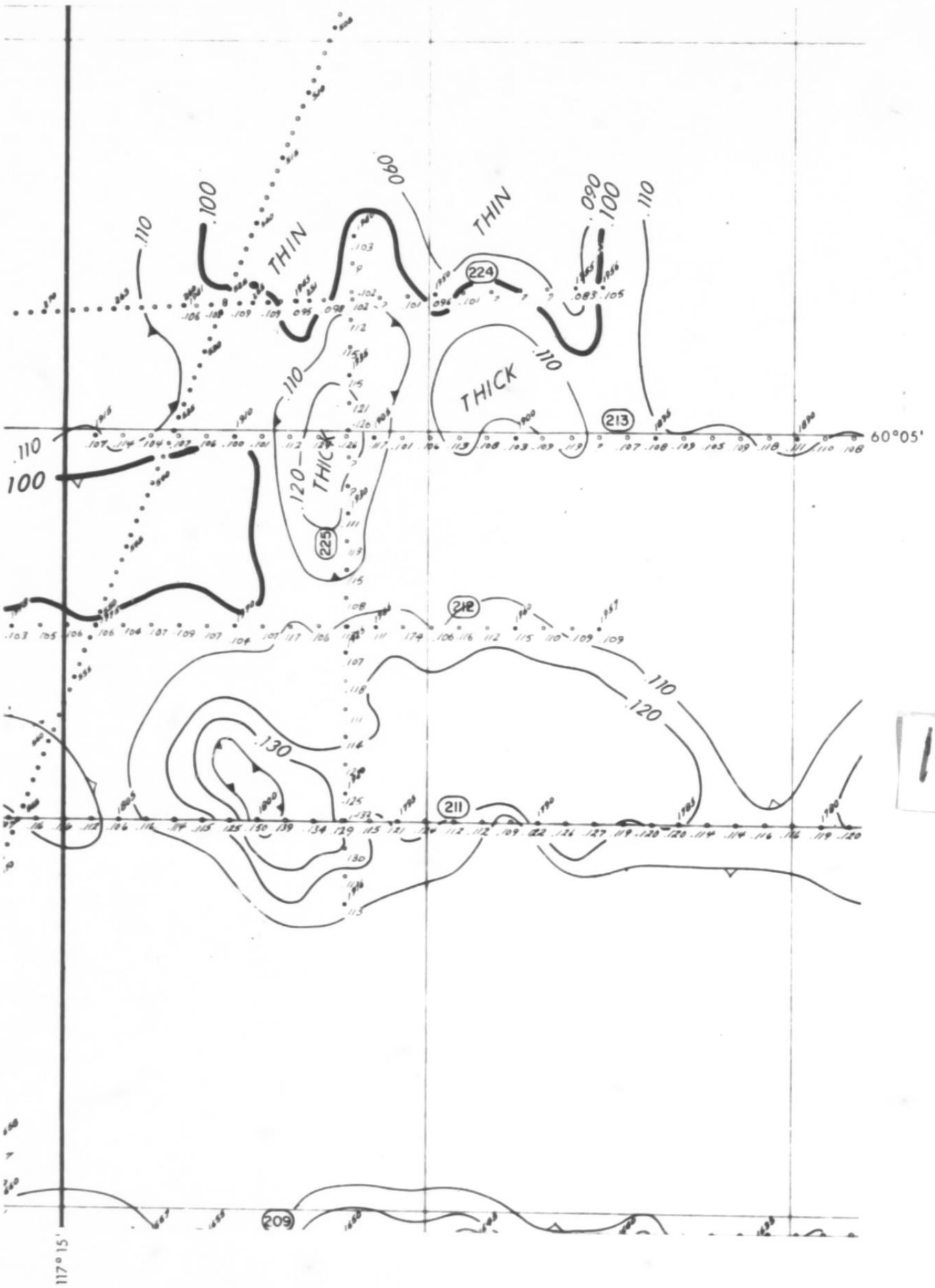
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EXPLORATION DEPARTMENT CALGARY ALBERTA				
SWEDE CREEK "D" **GEOPHYSICAL ISOCHRON MAP** **APPR. FT. SIMPSON SHALE - SLAVE POINT**				
CONTOUR INTERVAL 0.010 sec. (55' for V. = 10970'/sec.) TIME or INTERVAL 320 sec. THICKNESS or DEPTH 1755 ft. ELEVATION REFERENCE 1700 ft. VELOCITY 7500'/sec.				
SCALE 1 = 2000'	AUTHOR L.S. BUCKIE			DATE DEC. 1969
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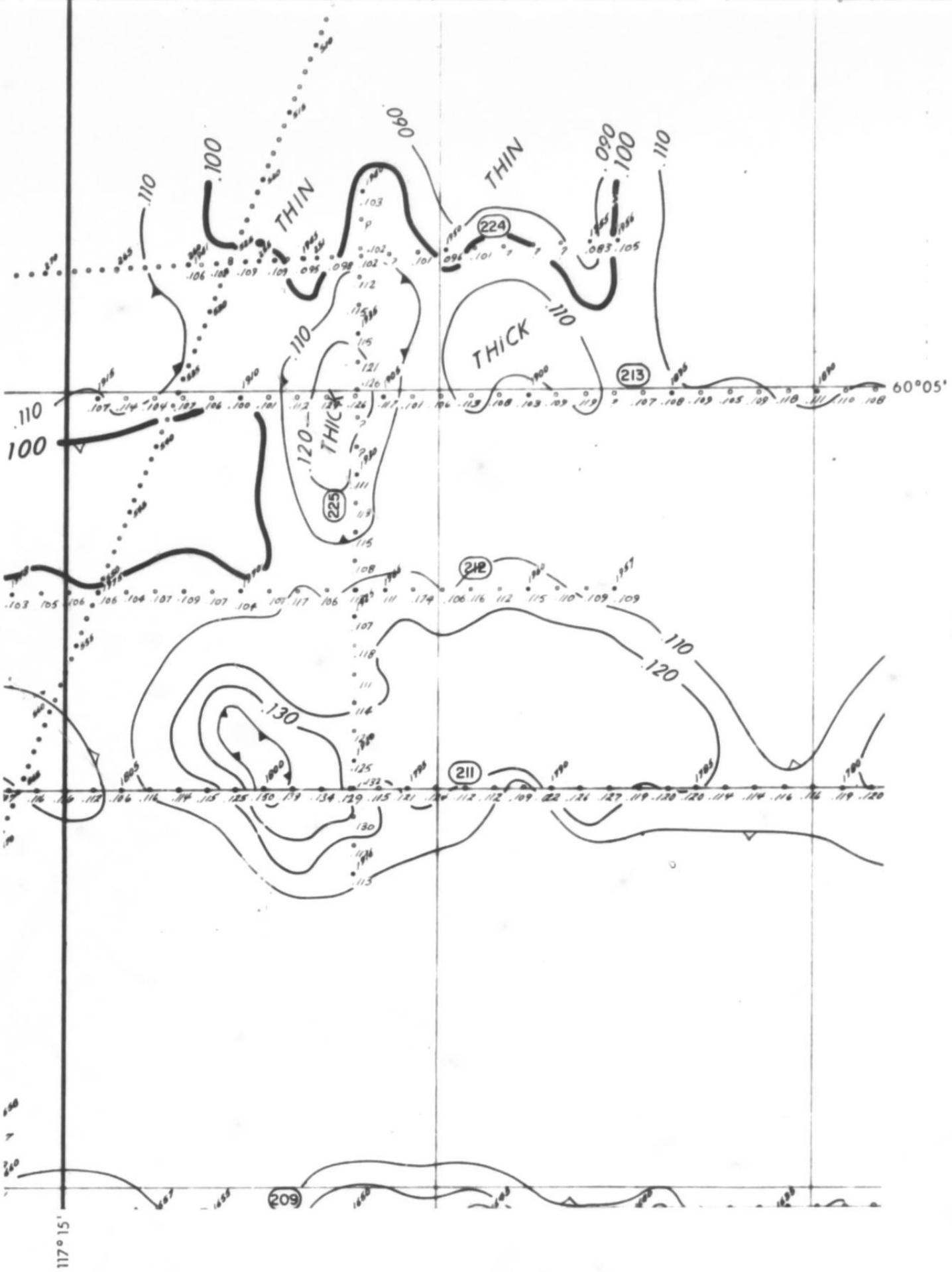
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SWEDE CREEK "D"



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SWEDE CREEK "D"

GEOPHYSICAL ISOCHRON MAP

SLAVE POINT - PRECAMBRIAN

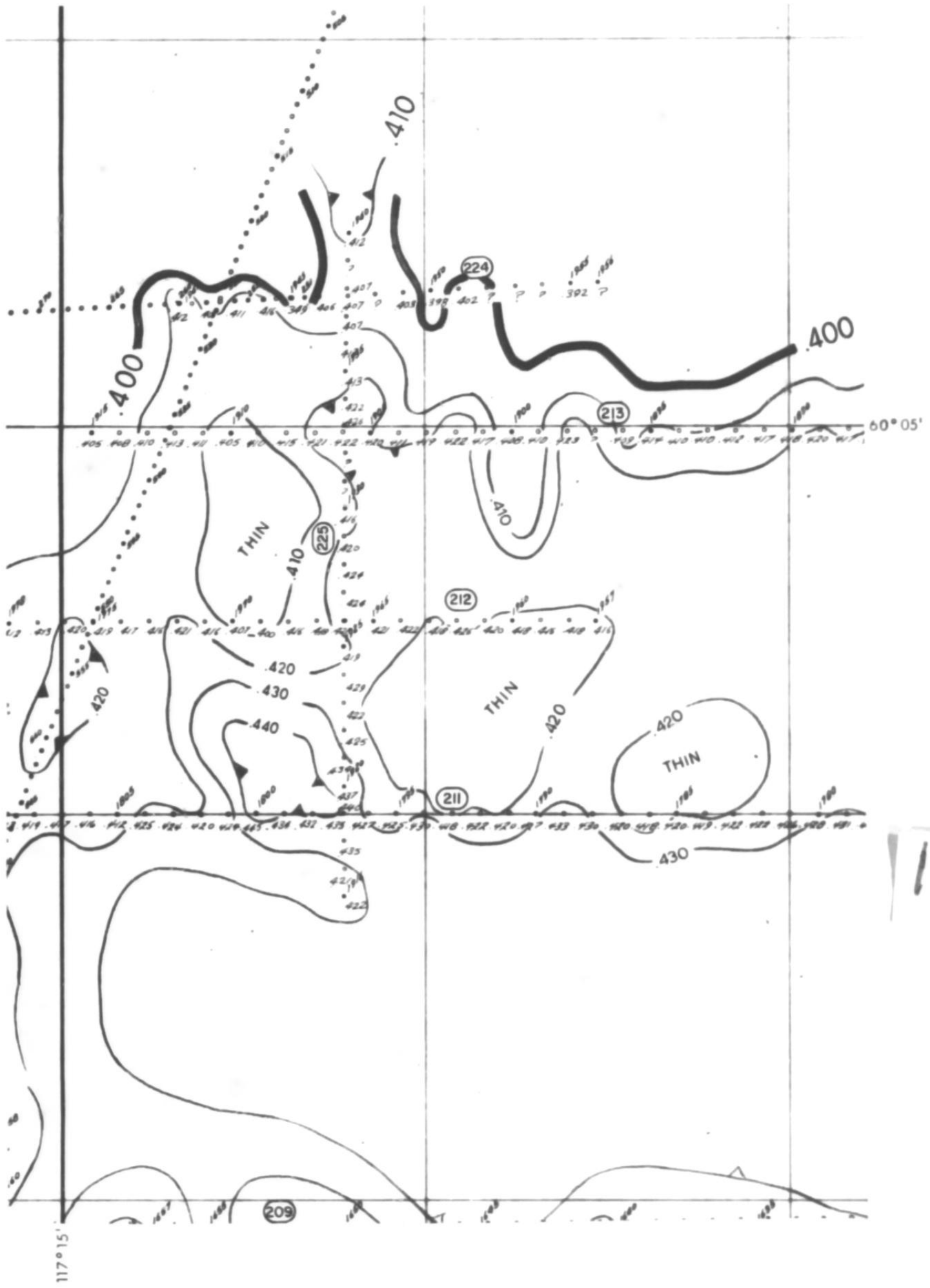
CONTOUR INTERVAL 0.010 sec. (99' for V. = 19750'/sec.)

TIME or INTERVAL .120 sec. THICKNESS or DEPTH 1185 ft.

ELEVATION REFERENCE 1700 ft. VELOCITY 7500'/sec.

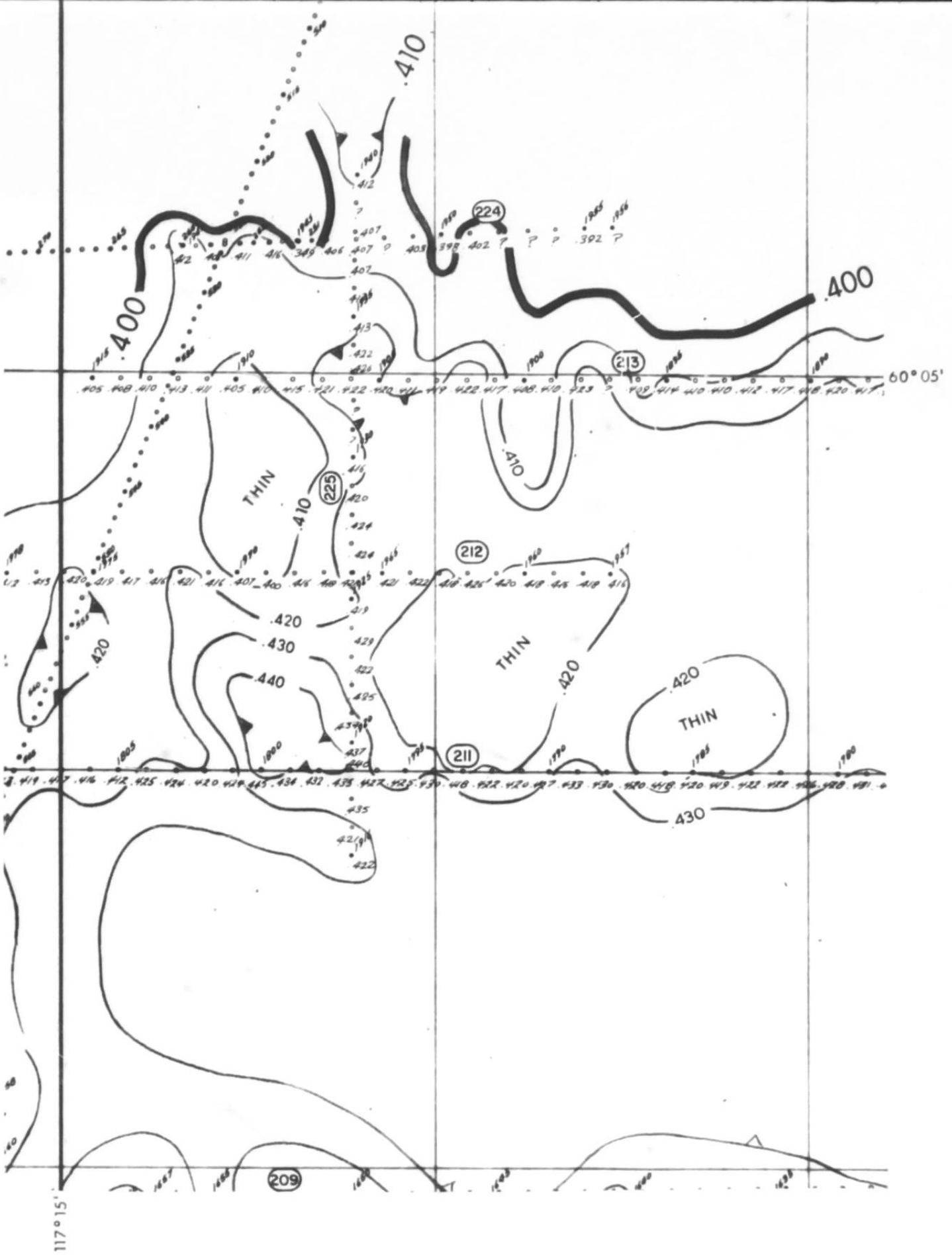
SCALE 1 = 2000'	AUTHOR L.S. BUCKIE	DATE DEC. 1969
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SWEDE CREEK "D"



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CALGARY ALBERTA

SWEDE CREEK "D"

GEOPHYSICAL ISOCHRON MAP

APPR. FT. SIMPSON SHALE - PRECAMBRIAN

CONTOUR INTERVAL 0.010 sec. (68' for V. = 13675'/sec.)

TIME or INTERVAL .440 sec. THICKNESS or DEPTH 2940 ft.

ELEVATION REFERENCE 1700 ft. VELOCITY 7500'/sec.

SCALE 1 = 2000'	AUTHOR L.S. BUCKIE	DATE DEC. 1969
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