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GEOPHYSICAL REPORT
SEISMIC INVESTIGATION
RAMPARTS PROJECT, NWT

PETROLEUM AND NATURAL GAS PERMIT NOS.
P4635 TO P4646 INCLUSIVE

MAP REFERENCE: 106-G-NW & NE

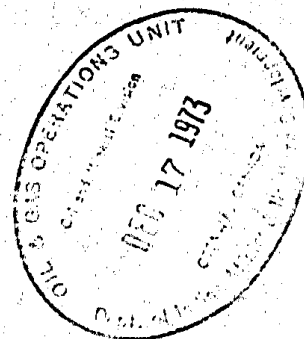
FOR THE PERIOD OF FEB. 1, TO MARCH 29, 1973

BY

G.W. Fawcett, Coordinator-Geophysics

Gulf Oil Canada Limited Date — DEC 5 1973 —

002-06-06-071



RAMPARTS AREA, N.W.T.

PETROLEUM AND NATURAL GAS PERMITS

NOS. P4635 TO P4646 INCLUSIVE

The Geophysical Report on the subject Permits consists of the following:

Geophysical Statistical Data (Appendix) Pages 1-3
Seismic Elevation and Engineering Map in Pocket
Seismic Structure on Top of Hume in Pocket

This report covers our 1973 performance, details of which are listed in the Appendix. The new data have been integrated with the work reported previously. For ease of identification, the 1973 shooting are underlined in orange on the Engineering Map. The Hume seismic reflected event is the most persistent over the project.

The very difficult terrain to the west of the Arctic Red River makes this an expensive project to seismograph.


G.W. Fawcett
Coordinator - Geophysics
Exploration Operations
Gulf Oil Canada Limited

GEOPHYSICAL STATISTICAL DATA

(Required for operations in B.C., Y.T., and N.W.T.)

PROJECT RAMPARTS (N.W.T.)

CREW CENTURY 34

LOCATION Longitude: 130° 31' - 132° 00'
Latitude: 65° 40' - 66° 00'

Longitude: 131° 23' 26"W
Latitude: 65° 49' 45"N
BASE

DATES OF OPERATION:

1. Mobilization of vessels/aircraft/vehicles Feb. 1, 1973
2. Recorders left base on Feb. 17th, 1973
3. Recording commenced on Feb. 19th, 1973
4. Recording suspended on -
5. Recording recommenced on -
6. Recording completed on March 22nd, 1973
7. Vessels/aircraft/vehicles released on March 29th, 1973

PRODUCTION:

1. Number of miles shot (or surveyed) 94 1/2
2. Number of shots taken 563
3. Number of stations (gravity, magnetics, etc.) 568
4. Number of recording days 30
5. Average daily production:
 - a) miles shot (surveyed) 3.2
 - b) stations shot (surveyed) 19
6. Days lost due to weather conditions 0
7. Days lost due to equipment failure 2

EQUIPMENT:

1. Full description of all vessels/aircraft/vehicles used:

RECORDING CREW: 4 - RN-60 (Diesel)
1 - RN-110 (Gas)
2 - Bombardiers (Gas)

DRILLING CREW: 6 - RN-110 (Gas)
2 - RN-110 (Diesel)

BUILDING: 1 - D6-C
1 - D7-E
1 - D7-F

2. Recording equipment:

- a) instruments - DFS-III, 48 Trace, 21 Track
- b) detectors - Mark L-1 (14 Hz.)
- c) number cables used 16
- d) length of each cable 1400'
- e) number of detector strings 75
- f) number of detectors per string 4
- g) detector spacing 40'
- h) distance between group centres 220'

PERSONNEL: (numerical list of all field and office personnel assigned to crew, with positions or titles)

B. Upstone	-	Party Manager
G. Kipling	-	Observer
M. Barnett	-	Shooter
C. Kenny	-	Surveyor
J. Milne	-	Clerk
W. Tarvydas	-	Mechanic
W. Srayko	-	Expediter

HELPERS:	L. Bartlett	D. Rundle
	W. Nelson	R. Magee
	W. MacInnis	L. Barclay
	J. Thomas	D. Morgan
	D. Knudsen	
	G. Berg	

NAVIGATION:

1. Equipment used in surveying: Wild T-16 Theodolite
2. Method used to locate lines and stations: Prominent landmarks or features and survey control of the previous season (1972)

COMMITIONS: (list all pertinent meteorological, bathymetric and other working conditions affecting the survey, radio liaison, etc.)

Terrain was extremely rugged requiring much detouring.

Radio communication to and from camp was almost non-existent.

FIELD PROCEDURES:

1. Type of shooting (reflection, refraction, rollalong, broadside, etc.)
Reflection

2. Deployment of vessels/vehicles

Vehicles left in field overnight to minimize travelling time.
Personnel ferried back and forth by helicopter.

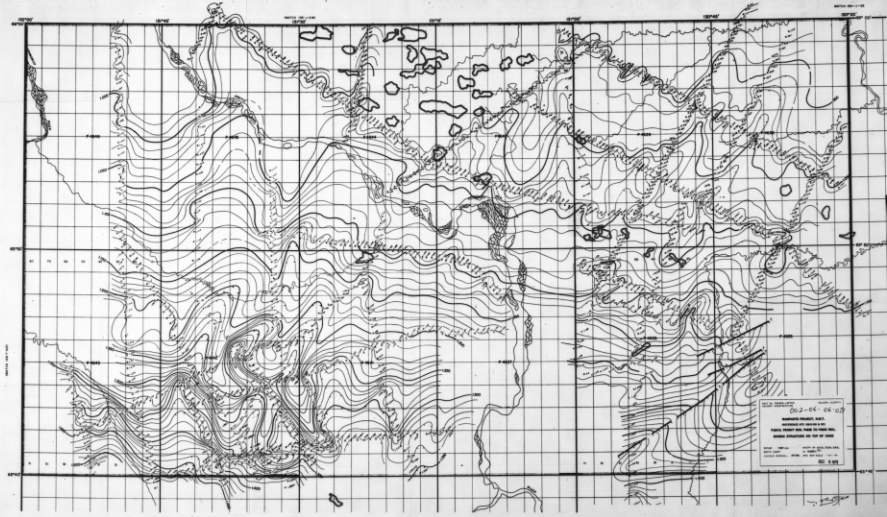
3. Percentage of stack 600%
4. Average charge size 10 lbs.
5. Distance between stations/flight lines 880'
6. Elevations of aircraft -
7. Gradiometer and/or total field -

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