

60-6-4-73

Abstracted for
Geo-Science Data Index

Date _____

REPORT OF GEOPHYSICAL AND SEISMOGRAPH
REFLECTION SURVEY

On and off Federal Permits 4181, 4184, 4293 and
4294 West Trout River Area N.W.T.

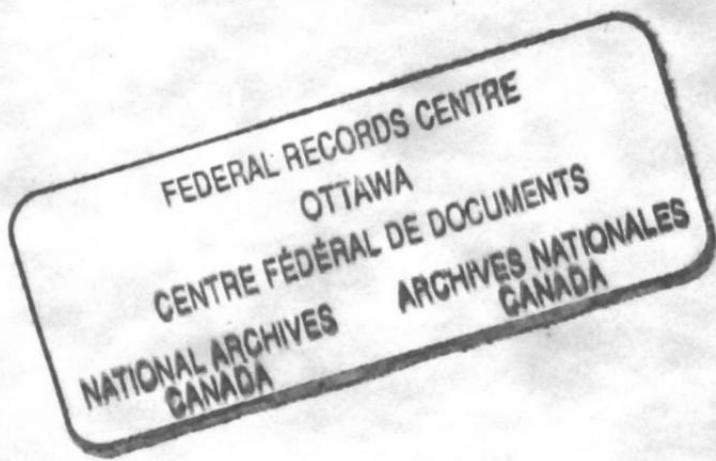
120°45'00" W Long (CODED)
61°00'00" N Lat

During the period Jan. 31, 1969 to March 26, 1969

Prepared by: J. L. Hudson
Exploration Group Supervisor

June 25, 1969

I-94-65



SUBSURFACE MAPS ENCLOSED

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TEXT

Introduction

During the period of January 31, 1969 to March 26, 1969 a seismograph reflection survey was conducted on and off West Trout River, N.W.T. Permit No.'s 4181, 4184, 4293, 4294 by Western Geophysical Company of Canada (Party #50 and Party V-8) for Pan American Petroleum Corporation.

Party #50

Party #50 spent 23 calendar days working on seismic lines cut and cleared at the same time as the seismic work was being done. The crew was under the supervision of E. Planck, Party Manager.

Conventional wheel mounted recording and drilling equipment was used in this operation. The camp consisted of four expandable trailer units mounted on two "highboys" and a power-work shop trailer.

Party V-8

Party V-8 spent 32 calendar days working on seismic lines cut and cleared at the same time as the seismic work was being done. The crew was under the supervision of J. T. Coull, Party Manager.

Wheel mounted equipment consisting of a digital recorder and four vibrators were used in this operation. The camp consisted of four expandable trailer units mounted on two "highboys" and a power work shop trailer.

Pan American's interpretive staff located in Calgary spent a total of 100 days on the project. The interpretation was carried on simultaneously with the field work and was completed June 25, 1969.

No unusual operating problems were encountered while operating in the area.

No personnel other than those on Western Geophysical Party 50 and Party V-8, and the interpretive staff worked directly on the project.

Seismic Technique

Party #50

One hole pattern shotpoints were drilled to an average depth of 40 feet. Shot depth was determined by the near surface lithology.

Normal charge size was 1 - 2½ lbs. per shot hole. Occasionally 1 - 5 lb. charges were used per shot hole.

All data was recorded on techno type magnetic analogue tapes using Western instruments TFA-1 amplifiers.

Party V-8

The "vibrator" energy source at each shot point consisted of four vibrators positioned inline with 36' separation and each moving a total of 217.5 feet in 16 sweeps. The pilot signal transmitted into the ground was a 14 to 56 cps sweep lasting 7 seconds.

All data was digitally recorded on 9 track magnetic tape using binary gain through SDS-1010 amplifiers and summed in a Western summer. Random analogue correlations were made in the field for quality control. Production correlations were performed digitally in town by Cendac Data.

The area was shot with 600% multifold coverage using spread layouts as shown on the enclosed spread diagrams.

The reflection method was used to obtain the subsurface data throughout the area.

The data that appears on the subsurface maps are vertical two-way times between an arbitrary reference plane and the particular horizon mapped.

Respectfully submitted,

PAN AMERICAN PETROLEUM CORPORATION

By


J. L. Hudson

Exploration Group Supervisor

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Geo-Science Data Index

REPORT OF GEOPHYSICAL SURVEY
REPORT OF SEISMOGRAPH REFLECTION SURVEY

Date _____

Conducted By **P**

WESTERN GEOPHYSICAL COMPANY OF CANADA

FOR **0**

PAN AMERICAN PETROLEUM CORPORATION

DURING THE PERIOD JANUARY 31, 1969 TO MARCH 26, 1969

On and off West Trout River, N.W.T. Permit No.'s 4181, 4184, 4293
and 4294

Prepared By
J. L. Hudson
Exploration Group Supervisor



Submitted in support of application for credit, see affidavit made
by L.A. TANNONE of MAY 6, 1969 and in accordance with
work obligations under section 54(F) of the Territorial Lands Act.