

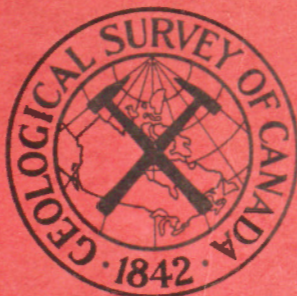
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CANADA
DEPARTMENT OF MINES
AND
TECHNICAL SURVEYS

GEOLOGICAL SURVEY OF CANADA

CATALOGUE
OF
CURRENT SCIENTIFIC ACTIVITIES
OF THE
GEOLOGICAL SURVEY OF CANADA

PART 2
OFFICE AND LABORATORY
To June 30, 1959



OTTAWA
1959

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DEPARTMENT OF MINES AND TECHNICAL SURVEYS

GEOLOGICAL SURVEY OF CANADA

CATALOGUE

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CURRENT SCIENTIFIC ACTIVITIES

of the

GEOLOGICAL SURVEY OF CANADA

PART II

OFFICE AND LABORATORY

To 30 June, 1959

OTTAWA
1959

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PREFACE

In this catalogue, the current scientific office and laboratory activities of the Geological Survey of Canada are arranged serially, and gaps in the series indicate that projects originally assigned the missing numbers have been completed, or are inactive or discontinued. The projects have, for convenience in this catalogue, been arbitrarily assigned numbers preceded by the letters 'O.P.' for 'office and laboratory project'. The scientific field projects are listed in Part 1 of the catalogue and this is issued separately.

The projects are indexed, on the immediately following pages, according to; author, project number, division of the Geological Survey supervising the study and title. The index is followed by the separate details of each investigation

J.M. Harrison,
Director, Geological Survey of Canada.

Ottawa, 1 July, 1959

INDEX TO
GEOLOGICAL SURVEY SCIENTIFIC OFFICE AND
LABORATORY PROJECTS

<u>Author</u>	<u>Project</u>	<u>Division</u>	<u>Title</u>
Abbey, S.	28	M	Age Determinations.
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Armstrong, J.E.	5	PPC	Vancouver Office.
Baragar, W.R.A.	4	PC	Yellowknife Office.
Bell, W.A.	173	FSG	Carboniferous, Maritimes.
Belyea, H.R.	33	FSG	Subsurface Devonian Studies.
	37	FSG	Woodbend Group.
	59	FSG	Schedule of Wells, N.W.T.
	71	M, FSG	Sulphur Isotopes from Petroleum.
Bender, G.	77	M	Rock and mineral Analysis.
Blackadar, R.G.	105	Admin	T.C.A. Booklet.
Bolton, T.E.	30	FSG	Palaeontological Collections.
	149	FSG	Arthropoda.
	153	Admin	Lexicon.
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	172	PPC	Physiography.
Bostock, J.M.	135	PPC	Drift Thickness.
Bower, M.E.	139	G	Interpretation, Alberta.
	140	G	High Altitude Interpretation.
	167	G	Interpretation, Op. Franklin.
	176	G	Interpretation, Marmora.
	177	G	Hudson Bay, Profile.
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	144	M	Lead and Sulphur Isotopes, Yukon.
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Caley, J.F.	12	FSG	Bedrock Topography, Ont.
	13	FSG	Crown Land.
	100	FSG	Jupiter River.
Champ, W.H.	16	M	Spectrographic Analysis.
Collett, L.S.	110	G	Nuclear Absorption.
	181	G	Nuclear Magnetometer.
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	165	FSG	Royal Commission.
	171	FSG	Ordovician Ostracoda.
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	142	M	Rapid Fusion Technique.
Craig, B.G.	145	PPC	Surficial Geology, N.W.T.
Daughtry, G.S.	163	Admin, G	G.S.C. Booklet.

<u>Author</u>	<u>Project</u>	<u>Division</u>	<u>Title</u>
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	119	M	Meteorite Collection.
	120	M	Petrological Collection.
	121	M	Compilation of Analyses.
	142	M	Rapid Fusion Technique.
	178	M	Double Variation Apparatus.
Dubois, P.M.	81	G	Palaeomagnetic Studies.
	138	G	Anisotropic Susceptibility Meter.
Fabry, R.J.C.	7	M	Rock and Mineral Identification.
Fraser, J.A.	83	PPC	Radioactive Waste Disposal.
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	131	FSG	Jurassic, Canadian Arctic.
	132	FSG	Oxfordian Green Beds.
	133	FSG	Jurassic, Nelson and Salmo Areas.
	145	PPC	Surficial Geology, N.W.T.
Fyles, J.G.	148	PPC	Radiocarbon Dating.
	164	PPC	Ground-water Lectures.
Gadd, N.R.	83	PPC	Radioactive Waste Disposal.
	164	PPC	Ground-water Lectures.
Garland, G.	139	G	Interpretation, Alberta.
Gauthier, C.H.R.	6	M	Distribution of Collections.
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Gregory, A.F.	158	G	Aeroradiometric Surveying.
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	167	G	Interpretation, Op. Franklin.
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	134	MD	Uraninite, Creelman Twp.
Hacquebard, P.A.	23	FSG	Coal Research.
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	21	Admin	Secretary, N.A.C.
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Jeletzky, J.A.	31	FSG	Scaphites Faunas, Bearpaw Fm.
	82	FSG	Cretaceous Marine Zones, Correlation.
	107	FSG	Cretaceous Marine Zones, N. Canada.
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	130	Admin	G.S.C. Catalogue by N.T.S.
	178	Admin	Index Unpublished Manuscripts
King, L.H.	74	FSG	Briquetting Studies.
Knapp, H.	110	G	Nuclear Absorption.
	181	G	Nuclear Magnetometer.

<u>Author</u>	<u>Project</u>	<u>Division</u>	<u>Title</u>
Lang, A.H.	3	MD	Inventory, Radioactive Deposits.
	91	MD	Eco. Geol. No. 16.
	117	MD	N.A.C. Subcommittee
Larochele, A.	81	G	Palaeomagnetic Studies.
	126	G	Curie-Point Meter.
Lee, H.A.	136	PPC	Ice Dome, Hudson Bay.
	137	PFC	Beach Moraines, Hudson Bay.
	145	PPC	Surficial Geology, N.W.T.
	170	PPC, FSG	Bottom Samples, Saint John, N.B.
Lemoine, A.	2	MD	Eco. Geol. Files.
Liberty, B.A.	122	FSG	Palaeozoic Outliers.
	155	FSG	Logging Core, Ottawa.
Little, H.W.	8-1	Admin	Twenty Mile Map, B.C.
Lowdon, J.A.	62	M	Sulphur Isotopes, Rocks and Ores.
	98	M	Isotopic Study, Ore Leads.
MacGregor, I.D.	127	M	Mount Albert Ultrabasic Intrusion.
MacLaren, A.S.	151	G	Four Mile Aeromag. Composites.
	163	Admin, G	G.S.C. Booklet.
MacLean, B.	34	FSG	Oil and Gas Maps, W. Canada.
Mahoney, L.R.	130	Admin	G.S.C. Catalogue by N.T.S.
Malone, J.P.	16	M	Spectrographic Analysis.
Maxwell, J.A.	71	M, FSG	Sulphur Isotopes, Petroleum.
	77	M	Rock and Mineral Analysis.
	116	M	Magnesium Isotopes.
	121	M	Compilation of Analyses.
	142	M	Rapid Fusion Technique.
	143	M	Evaluation, Fluorine Determination.
McCartney, W.D.	125	MD	Metallogenic Maps.
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McGregor, D.C.	89	FSG	Palaeobotanical Guide Book.
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	29-2	FSG	Texaco, Fossils.
	29-3	FSG	Pan American, Fossils.
McLearn, F.H.	69	FSG	Upper Triassic Pardonet Beds.
	100	FSG	Anticosti Island.
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Muller, J.E.	66	PPC	Glacial Features, Yukon.
Norris, D.K.	165	FSG	Royal Commission.
Owen, E.B.	164	PPC	Ground-water Lectures.
Paris, J.C.	28	M	Age Determinations.
Pelletier, B.R.	168	FSG	Submarine Geology Methods.
Pollitt, E.I.K.	164	PPC	Ground-water Lectures.
Poole, W.H.	161	PPC	Two Mile Compilation, N.B.
Prest, V.K.	164	PPC	Ground-water Lectures.

<u>Author</u>	<u>Project</u>	<u>Division</u>	<u>Title</u>
Price, L.L.	47	FSG	Subsurface Study, Sask.
Pugh, D.C.	59	FSG	Schedule of Wells, N.W.T.
	68	FSG	Subsurface Studies, N.E., B.C.
Quillian, R.G.	159	FSG	Subsurface Studies, Ont.
Ready, E.E.	17	G	Aeromag. Compilation.
Reed, R.	132	FSG	Oxfordian Green Beds.
Rice, H.M.A.	1	Admin	Eight Mile Compilation.
	8	Admin	Small Scale Compilation.
	79	Admin	Geological Index Map
	88	FSG	Fossil Insects.
Robinson, S.C.	14	M	Lattice Parameters, Radioactive Mins.
	28	M	Age Determinations.
	174	M	Mineral Abstracts.
Rose, E.R.	102	M	Gordon Lake Nickel Deposit.
	103	M	Temagami Island Copper Deposit.
Sabina, A.P.	14	M	Lattice Parameters, Radioactive Mins.
	15	M	Powder Photographs.
Sanford, B.V.	12	FSG	Bedrock Topography, Ont.
	25	FSG	Oil and Gas, Ont.
	155	FSG	Bedrock Cores, Ottawa.
	159	FSG	Subsurface Studies, Ont.
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Smellie, D.	109	G	Quantitative Interpretation, Aeromag.
Smith, C.H.	116	M	Magnesium Isotopes.
	127	M	Mount Albert Ultrabasic Intrusion.
Stalker, A.M.	63	PPC	Dead-ice Plateaux.
	164	PPC	Ground-water Lectures.
Steacy, H.R.	3	MD	Inventory, Radioactive Deposits.
	91	MD	Eco. Geol. No. 16.
	134	MD	Uraninite, Creelman Twp.
Stevenson, I.M.	1-1	Admin	Eight Mile Compilation, N.S.
Stockwell, C.H.	153	Admin	Lexicon.
	154	Admin	Tectonic Map of Canada.
	162	Admin	Geological Map of Canada.
Terasmae, J.	89	FSG	Palaeobotanical Guide Book.
	123	PPC	St. Lawrence Lowland.
	141	PPC	Toronto Formation.
	156	PPC	Hydro Site, Hamilton.
Thorsteinsson, R.	114	FSG	Stratigraphy, Grinnell Feninsula.
Trall, R.J.	7	M	Rock and Mineral Identification.
	15	M	Powder Photographs.
	28	M	Age Determinations.
	101	M	Mineral and Ore Collections.
	134	MD	Uraninite, Creelman Twp.

<u>Author</u>	<u>Project</u>	<u>Division</u>	<u>Title</u>
Traill, R. J.	160	M	Canadian Mineral Occurrences.
	174	M	Mineralogical Abstracts.
Wagner, F. J. E.	153	Admin	Lexicon.
	170	PPC, FSG	Bottom Samples, St. John, N.B.
Wanless, R. K.	28	M	Age Determinations.
	62	M	Sulphur Isotopes, Rocks and Ores.
	71	M, FSG	Sulphur Isotopes, Petroleum.
	98	M	Isotopic Study, Ore Leads.
	116	M	Magnesium Isotopes.
Washkurak, S.	144	M	Lead and Sulphur Isotopes, Yukon.
	181	G	Nuclear Magnetometer.
Weeks, L. J.	19	PPC	Nfld. Reports and Maps.
Wesemeyer, H.	110	G	Nuclear Absorption.
	146	G	Magnetic Resonance Apparatus.
	147	G	Electron Spin Resonance.
White, W. F.	16	M	Spectrographic Analyses.
Wickenden, R. T. D.	18	FSG	Calgary Office.
	59	FSG	Schedule of Wells, N.W.T.
Williams, L. W.	163	Admin	G.S.C. Booklet.
Wright, G. M.	8-2	Admin	Twenty Mile Map, Man.
Wright, J. F.	32	Admin	Index to G.S.C. Reports.
	79	Admin	Geological Index Map.
	80	Admin	Field Photo Collection.

General Projects

For various reasons it is impractical to list all authors for the following general projects:

<u>Project</u>	<u>Title</u>
1	Eight Mile Compilations.
8	Twenty Mile Compilations.
29	Examination of Fossil Collections.
46	Papers for Outside Presentation.
96	Service on Boards, etc.
108	Miscellaneous.
157	Classified.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O.P. 1. Compilation of 8 mile geological maps of Canada.

LOCATION: Ottawa

OBJECTIVE: A standard series of reference geological maps, based on the National Topographic grid system, to cover, eventually, all parts of Canada, and in which the individual maps can be revised as more or better information becomes available

PERSONNEL: Members of the Geological Survey staff in cooperation with map editor, H.M.A. Rice

DATE OF
BEGINNING: 1948

DATE OF
COMPLETION:
Research: Continuing project
Prelim. Pubs: --
Final Pubs: continuing

PUBLICATIONS: Maps 971 A, 1007 A, 1016 A, 1063 A, 1069 A

PUBLICATIONS
OUTSTANDING: New and revised maps from time to time. See sub-project sheets numbered serially starting with O.P. 1-1

1917

THE UNIVERSITY OF CHICAGO

ANNUAL REPORT OF THE BOARD OF TRUSTEES FOR THE YEAR ENDING JUNE 30, 1917

CHICAGO, ILL., 1917
PUBLISHED BY THE UNIVERSITY OF CHICAGO PRESS

PRINTED AND BOUND BY THE UNIVERSITY OF CHICAGO PRESS

MADE IN U.S.A.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O.P. 1-1. 8 mile geological map of 11 s.w., N.S.

LOCATION: Ottawa

OBJECTIVE: To produce an 8 mile geological map from published and unpublished information.

PERSONNEL: I. M. Stevenson

DATE OF
BEGINNING: 1957

DATE OF
COMPLETION;
Research: 1958
Prelim. Pubs: --
Final Pubs: 1959?

PUBLICATIONS: Nil

PUBLICATIONS
OUTSTANDING: Final map and notes

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

PROJECT: O.P. 2. Economic geology files

LOCATION: Ottawa

OBJECTIVE: To file and cross-index all published authentic geological information and geological plans on all Canadian occurrences of economic metals or minerals; to assist in preparing for publication maps and reports showing the distribution and mode of occurrence of specific metals or minerals

PERSONNEL: Part time A.G. Johnston (supervision), Miss E.M. Burns, and Mrs. A. Lemoine

DATE OF
BEGINNING: 1940

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None in near future

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M D

PROJECT: O.P. 3. Laboratory investigation of samples of radioactive substances, and filing, collating, and abstracting of information supplied under the regulations of the Atomic Energy Control Board

LOCATION: Ottawa

OBJECTIVE: (1) To maintain a complete inventory of all occurrences of uranium and thorium deposits in Canada from information obtained under the regulations of the A.E.C.B., and field, and laboratory examinations.
(2) to aid in the discovery and exploitation of such deposits by making deductions and generalizations from this data.
(3) to care for and revise the G.S.C. collection of radioactive minerals

PERSONNEL: A.H. Lang, H.R. Steacy and staff

DATE OF
BEGINNING: 1945

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: annual
Final Pubs: --

PUBLICATIONS: Confidential inventory to 1959. Prepared annually

PUBLICATIONS
OUTSTANDING: Non-confidential data used with G.S. 48-6 and O.P. 91

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P C

PROJECT: O. P. 4. Maintenance Yellowknife office

LOCATION: Yellowknife, N.W.T.

OBJECTIVE: To keep in touch with the mining industry of N.W.T. to assist prospectors or others with their geological or mining problems; other special duties as required

PERSONNEL: J.C. McGlynn (1953-59), W.R.A. Baragar

DATE OF
BEGINNING: 1947

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS

OUTSTANDING: None but the office work requires much correspondence. Principal projects undertaken including those expected to lead to publications will be listed separately

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 5. Maintenance of the British Columbia Office

LOCATION: Vancouver, B. C.

OBJECTIVE: To keep in touch with the mining industry of B.C. and Yukon; to distribute G.S.C. publications on western Canada; to provide library facilities, assistance and information for visitors concerned with geology or mining in Canada; to cooperate with the local office of the provincial Dept. of Mines

PERSONNEL: J.E. Armstrong

DATE OF
BEGINNING: 1917

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: No publications expected, but much correspondence is required. Principal projects undertaken at this office, including those expected to lead to publications, will be listed separately

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 6. Distribution of specimens and collections of Canadian rocks, minerals, ores and fuels

LOCATION: Ottawa

OBJECTIVE: To assist prospectors and to familiarize individuals and institutions, associated with the mineral industry, with Canadian rocks, minerals, ores and fuels

PERSONNEL: C.H.R. Gauthier, plus 3 assistants

DATE OF BEGINNING: Many years ago

DATE OF COMPLETION:

Research: Continuing

Prelim. Pubs: --

Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS OUTSTANDING: No publications; during the fiscal year 1958-59, 6,863 collections containing 244,166 mineral and rock specimens were distributed throughout Canada. In addition 30 sets of 120 specimens were distributed

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 7. Examination of mineral and rock samples

LOCATION: Ottawa

OBJECTIVE: (1) Free examination and reports made on mineral and rock samples and specimens sent in from all parts of Canada by the general public
(2) Identification of minerals in specimens submitted by members of the Geological Survey field staff

PERSONNEL: R. J. Traill and R. J. C. Fabry

DATE OF BEGINNING: Many years ago

DATE OF COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: Information supplied mainly by correspondence; occasional report on some special investigation published; during 1958, 2,316 specimens were examined and 353 reports issued by letter. 2009 identifications and analyses were reported to Survey officers.

PUBLICATIONS:
OUTSTANDING: None

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 8. Compilation of small-scale geological and mineral maps of the provinces or other large regions of Canada

LOCATION: Ottawa

OBJECTIVE: Publications of reference maps, mainly on a scale of 1 inch to 20 miles, showing cumulative geological and mineral information

PERSONNEL: Members of the Geological Survey staff in cooperation with map editor, H.M.A. Rice

DATE OF BEGINNING: 1946

DATE OF COMPLETION:

 Research: Continuing project

 Prelim. Pubs: --

 Final Pubs: Continuing

PUBLICATIONS:

<u>Area</u>	<u>Scale</u>	<u>Geological</u>	<u>Mineral</u>
Canada	120 mi.	1045 A	900 A
Mackenzie Dist.	20 mi.	1055 A	--
Yukon	20 mi.	1048 A	--
B. C.	20 mi.	932 A	1008 A
Alta.	20 mi.	1002 A	--
Sask.	20 mi.	895 A	896 A
Man.	20 mi.	850 A	851 A
Que.	12 mi.	703 A 704 A	705 A--
Maritime Prov.	12 mi.	910 A	910 A
Nfld.	12 mi.	1043 A	1043 A

PUBLICATIONS OUTSTANDING: New and revised maps from time to time. See sub-project sheets numbered serially starting with O.P. 8-1

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 8-1. 20 mile geological map of B.C.

LOCATION: Ottawa

OBJECTIVE: To produce a 20 mile geological map from published and unpublished information.

PERSONNEL: H. W. Little

DATE OF
BEGINNING: 1956

DATE OF
COMPLETION:
Research: 1959(?)
Prelim. Pubs: --
Final Pubs: 1959(?)

PUBLICATIONS: Nil

PUBLICATIONS
OUTSTANDING: Final map

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 8-2. 20 mile geological map of Man.

LOCATION: Ottawa

OBJECTIVE: To produce a 20 mile geological map from
published and unpublished information

PERSONNEL: G. M. Wright

DATE OF
BEGINNING: May 1956

DATE OF
COMPLETION:
Research: 1960(?)
Prelim. Pubs: --
Final Pubs: (?)

PUBLICATIONS: Nil

PUBLICATIONS
OUTSTANDING: Final map

THE HISTORY OF THE
REPUBLIC OF THE UNITED STATES

CHAPTER I. THE FOUNDING OF THE NATION

SECTION I. THE EARLY YEARS

SECTION II. THE REVOLUTIONARY WAR

SECTION III. THE CONSTITUTION

SECTION IV. THE EARLY REPUBLIC

SECTION V. THE WESTERN EXPANSION

SECTION VI. THE CIVIL WAR

SECTION VII. THE RECONSTRUCTION

SECTION VIII. THE PROGRESSIVE ERA

SECTION IX. THE INTERWAR PERIOD

SECTION X. THE MODERN ERA

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 12. Studies of drift thickness and bedrock topography in Southern Ontario

LOCATION: Ottawa

OBJECTIVE: By means of bore hole data to determine the pre-Pleistocene bedrock topography, and the drift thickness. To deduce the pre-glacial drainage and the probable location of reservoirs of ground water. As the pre-Pleistocene topography may reflect, the underlying structure of the bedrock, this knowledge will assist in the search for oil and natural gas

PERSONNEL: J.F. Caley and B.V. Sanford

DATE OF
BEGINNING: 1948

DATE OF
COMPLETION:
Research: Indefinite
Prelim, Pubs: 1952, 53, 55
Final Pubs: --

PUBLICATIONS: Papers 52-2, 52-4, 52-17, 53-6, 53-30, 53-31, 55-20

PUBLICATIONS

OUTSTANDING: Maps, by counties, showing by contours the pre-Pleistocene topography of bedrock, and isopach maps showing the thickness of the drift; further publications to be largely revisions of the foregoing as density of control increases

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O.P. 13. Providing pertinent geological information to government authorities administrating Crown Lands

LOCATION: Ottawa

OBJECTIVE: To assist government authorities in their estimates of rentals, royalties, etc. in connection with natural resources of oil, gas, coal, etc., on Indian Reserves and Territories

PERSONNEL: J.F. Caley

DATE OF
BEGINNING: 1943

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None, but much official correspondence

PUBLICATIONS
OUTSTANDING: --

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 14 Variation in lattice parameter of pitchblende and uraninite from various localities

LOCATION: Ottawa

OBJECTIVE: To ascertain whether the variations can be attributed to any of the following: (1) different mineralogical provinces; (2) age of the deposits; (3) degree of alteration, (4) variations in a solid solution series

PERSONNEL: S.C. Robinson and Miss A.P. Sabina

DATE OF BEGINNING: Feb. 1949

DATE OF COMPLETION:

Research: 1958

Prelim. Pubs: 1955, 1958

Final Pubs: 1960

PUBLICATIONS: Data on uraninite and thorianite in Grenville rocks - American Mineralogist for July-August 1955
Data contributed to, Frondel C.: Systematic Mineralogy of Uranium and Thorium, U.S.G.S., Bull. 1064, 1958

PUBLICATIONS OUTSTANDING: Bulletin

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 15. Reference collection of X-ray powder photographs of minerals

LOCATION: Ottawa

OBJECTIVE: To prepare a collection of X-ray photographs of material identified accurately by chemical or other means; to develop new techniques in powder photography

PERSONNEL: R. J. Traill, and Miss A. P. Sabina

DATE OF
BEGINNING: 1949

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: 1959
Final Pubs: Indefinite

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Reference catalogue of X-ray powder photographs. Published lists from time to time of minerals for which such powder patterns are available. These are in preparation

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O.P. 16. Spectrographic analysis of minerals, rocks, ores, and other materials of geological interest

LOCATION: Ottawa

OBJECTIVE: (1) Calibration and standardization necessary to permit quantitative spectrographic analyses of materials of geological interest, (2) To make quantitative and qualitative analyses of materials submitted by officers of the Geological Survey in connection with their field or office investigations

PERSONNEL: W.H. Champ, W.F. White, and J.P. Malone

DATE OF BEGINNING: 1953

DATE OF COMPLETION:

Research: Continuing

Prelim. Pubs: --

Final Pubs: --

PUBLICATIONS: None. Information provided as memoranda, and in correspondence.

PUBLICATIONS OUTSTANDING: Possibly G.S.C. or outside publications

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 17. Office compilation of aeromagnetic data

LOCATION: Ottawa

OBJECTIVE: To provide information for the publication of aeromagnetic maps and sections that may assist geological mapping and the search for deposits carrying iron-bearing minerals

PERSONNEL: E.E. Ready and staff of the compilation section of the Geophysics Division of the G.S.C.

DATE OF BEGINNING: June 1947

DATE OF COMPLETION:

Research:	Continuing
Prelim. Pubs:	Continuing
Final Pubs:	Continuing

PUBLICATIONS: i mi. aeromagnetic contour maps. For details see Aeromagnetic Index Maps.

PUBLICATIONS OUTSTANDING: Maps as above from Field Projects

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 18. Maintenance of a western, oil and gas office

LOCATION: Calgary, Alberta

OBJECTIVE: To keep in touch with developments and to advise the public concerning geological problems affecting oil and gas exploration in Western Canada; to maintain facilities for a staff engaged on regional subsurface stratigraphic and correlation problems as related to oil and natural gas; and to perform other duties as required

PERSONNEL: R. T. D. Wickenden (in charge)

DATE OF
BEGINNING: Sept. 1950

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: --

PUBLICATIONS

OUTSTANDING: No publications expected. Principal projects undertaken at this office, including those expected to lead to publications, will be listed separately

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 19. Nfld. reports and maps

LOCATION: Nfld.

OBJECTIVE: To publish, as opportunity permits, in order of priority of economic interest and geological value, manuscripts based on field work for the Geological Survey of Newfoundland before Confederation, and since turned over to the Geological Survey of Canada

PERSONNEL: L. J. Weeks, in cooperation with Technical Editor

DATE OF
BEGINNING: 1950

DATE OF
COMPLETION:
Research: (?)
Prelim. Pubs: 1950, 1951, 1952, 1953, 1954

PUBLICATIONS: Papers 50-7, 50-22, 51-21, 53-1
Memoirs 265, 276, 301
Bulletin 27

PUBLICATIONS
OUTSTANDING: Various G. S. C. publications in preparation

STATE OF NEW YORK

IN SENATE

JANUARY 18, 1907

REPORT

OF THE

COMMISSIONERS OF THE LAND OFFICE

FOR THE YEAR 1906

ALBANY: J.B. WARD, STATE PRINTER, 1907.

THE STATE OF NEW YORK

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 20. Compilation of data on current research
in the Geological sciences

LOCATION: Ottawa

OBJECTIVE: Publication of an annual report on current
geological research in Canada

PERSONNEL: J. F. Henderson

DATE OF
BEGINNING: Sept. 1950

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: Annual

PUBLICATIONS: Mimeographed reports prepared, or brought up to
date, annually

PUBLICATIONS
OUTSTANDING: As above

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O.P. 21. Secretary Nat. Advisory Committee on
research in the geological sciences

LOCATION: Ottawa

OBJECTIVE: Coordination of, and stimulation of interest in,
geological research in Canada

PERSONNEL: J.F. Henderson

DATE OF
BEGINNING: November 1950

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: Annual

PUBLICATIONS: Annual reports

PUBLICATIONS
OUTSTANDING: Annual reports

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 23. Research on the petrography and spore analysis of coal

LOCATION: N.S., Sydney

OBJECTIVE: Investigations of the character and correlation of the various coal seams in Nova Scotia and Western Canada coal fields, such as will aid their development

PERSONNEL: P.A. Hacquebard

DATE OF BEGINNING: August 1948

DATE OF COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: 1951, 1957

PUBLICATIONS: Bulletins 19, 40
Nine Outside papers in:
First and Second conferences on the Origin and constitution of Coal, 1950; 1952; Economic Geology, vol. 47, No. 5; vol. 49, No. 8; vol. 50, No. 8; N. S. Research Foundation, 1952; Abstract G.S.A., 1955 Micropalaeontology, vol. 3, No. 4, 1957.

PUBLICATIONS OUTSTANDING: Office and printed reports and outside publications from time to time

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O.P. 25. Oil and gas fields of southwestern Ontario

LOCATION: Ottawa

OBJECTIVE: To prepare maps and reports, partly based on G.S. 51-23, giving data and conclusions pertaining to the oil and gas fields of southwestern Ontario

PERSONNEL: B.V. Sanford

DATE OF
BEGINNING: 1952

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: 1955

PUBLICATIONS: Memoir 278. Outside papers in Second and Third Annual Reports of the Ont. Fuel Board; Twentieth International Geological Congress

PUBLICATIONS:
OUTSTANDING: Maps and reports as information is accumulated.
Memoir, Supplement to Memoir 237

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory, Project)

P C

PROJECT: O. P. 27. Mineral Industry of the Mainland of
Northwest Territories

LOCATION: Yellowknife, N.W.T.

OBJECTIVE: To secure information and prepare for publication
a report on the Mineral Industry of the Mainland
of the Northwest Territories

PERSONNEL: J.C. McGlynn

DATE OF
BEGINNING: 1954

DATE OF
COMPLETION:
Research: 1958(?)
Prelim. Pubs: 1941, 1951, (?)
Final Pubs: 1941, 1951, (?)

PUBLICATIONS: Memoirs 230, 361 by C.S. Lord

PUBLICATIONS
OUTSTANDING: Memoir

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 28. Age determinations of rocks and minerals

LOCATION: Ottawa

OBJECTIVE: To make concentrations of minerals from bulk samples of rocks and ores; to analyse these concentrations for specific elements and make chemical concentrations of specific elements for isotope analyses. By means of the mass spectrometer to make isotope analyses of the above and to compute the age of the minerals and enclosing rocks from this data

PERSONNEL: R. J. Traill, S. Abbey, R. K. Wanless, J. C. Paris and S. C. Robinson

DATE OF BEGINNING: 1954

DATE OF COMPLETION:

Research:	Continuing
Prelim. Pubs:	Indefinite
Final Pubs:	Indefinite

PUBLICATIONS: Paper in "Nature", Aug. 1956
Papers presented orally to ASPG and McGill by S. C. Robinson.

PUBLICATIONS OUTSTANDING: Various publications as work progresses, probably in the form of papers and bulletins

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 29. Examination of fossils submitted by other government departments, provincial governments, oil and mining companies, and the general public

LOCATION: Ottawa

OBJECTIVE: By the identification and study of fossils to determine the age and depositional environment of the enclosing strata, and thereby to supply the collector with data vital to satisfactory field investigations

PERSONNEL: Staff of the Stratigraphic Palaeontology Section

DATE OF
BEGINNING: Many years ago

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS

OUTSTANDING: None. Information supplied mainly by correspondence and inter-office reports. Such reports as may be prepared for publication from time to time will appear as sub-projects, and are numbered serially starting with O. P. 29-1

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 29-1. Examination of fossils submitted by
Mobil Oil of Canada Ltd. (Renumberes from O.P. 124)

LOCATION: Ottawa

OBJECTIVE: By the identification and study of the fossils to
determine the age and depositional environment of
the enclosing strata, and thereby to supply the
collector with data vital to satisfactory field
investigations

PERSONNEL: D. J. McLaren

DATE OF
BEGINNING: 17 October, 1957

DATE OF
COMPLETION:
Research: January 1958
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Office report, and report to MobilOil of Canada Ltd.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 29-2. Examination of fossils submitted by
Texaco Exploration Co. (Renumbered from O.P. 128)

LOCATION: Ottawa

OBJECTIVE: By the identification and study of the fossils to
determine the age and depositional environment of
the enclosing strata, and thereby to supply the
collector with data vital to satisfactory field
investigations

PERSONNEL: D. J. McLaren

DATE OF
BEGINNING: November, 1957

DATE OF
COMPLETION:
Research: December, 1957
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS

OUTSTANDING: None. An office report, and a report to Texaco
Exploration Company

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 29-3. Examination of fossils submitted by
Pan American Petroleum Company

LOCATION: Ottawa

OBJECTIVE: By the identification and study of the fossils to
determine the age and deposition environment of the
enclosing strata, and thereby to supply the collector
with data vital to satisfactory field investigations

PERSONNEL: D. J. McLaren

DATE OF
BEGINNING: January 1958

DATE OF
COMPLETION:
Research: January 1958
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None. An office report, and a report to Pan
American Petroleum Company.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 30. Maintenance of the palaeontological collections

LOCATION: Ottawa

OBJECTIVE: To catalogue, store, and maintain incoming, and type collections of fossils so they are readily available; to prepare exchange material

PERSONNEL: H. Frebold, and staff of Stratigraphic Palaeontology Section

DATE OF BEGINNING: Many years ago

DATE OF COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: 1959(?)

PUBLICATIONS: Catalogue of Type Invertebrate Fossils of the Geological Survey of Canada, vol. I, by T.E. Bolton

PUBLICATIONS: OUTSTANDING: Catalogue of type specimens in the Geological Survey

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 31. A study of Geological Survey collections of Scaphites faunas from the Bearpaw formation of Alberta and Saskatchewan and its equivalents in Manitoba

LOCATION: Ottawa

OBJECTIVE: To zone the Bearpaw formation and its equivalent formations, using their Scaphites faunas; and to correlate these formations throughout the Prairie Provinces

PERSONNEL: J.A. Jeletzky

DATE OF
BEGINNING: 1949

DATE OF
COMPLETION:
Research: 1956
Prelim. Pubs: --
Final Pubs: 1959(?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Bulletin

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 32, To compile indices to Geological Survey Reports

LOCATION: Ottawa

OBJECTIVE: To prepare a complete index of Memoirs, Economic Geology Series, Museum Bulletins (as they relate to the Geological Survey) Geological Bulletins, Preliminary Papers, Summary Reports and maps since 1927

PERSONNEL: J.F. Wright

DATE OF
BEGINNING: 1951

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: General Index to Geological Survey Reports 1927-50

PUBLICATIONS:
OUTSTANDING: Subsequent indices.
Index 1951-60 being prepared

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent data collection procedures and the use of advanced analytical techniques to derive meaningful insights from the data.

3. The third part of the document focuses on the implementation of data-driven decision-making processes. It provides a detailed overview of the steps involved in identifying key performance indicators (KPIs) and using data to inform strategic decisions.

4. The fourth part of the document discusses the challenges and risks associated with data management and analysis. It addresses issues such as data privacy, security, and the potential for bias in data analysis, and offers strategies to mitigate these risks.

5. The final part of the document provides a summary of the key findings and recommendations. It reiterates the importance of a data-driven approach and offers practical advice for organizations looking to optimize their performance through data analysis.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 33. Sub-surface studies of the Devonian system of the Alberta Plains

LOCATION: Calgary, Alberta

OBJECTIVE: To prepare and publish, from data from cores, samples and electric and radioactivity logs, cross-sections to show correlations and facies changes in the Devonian system of the Alberta Plains; and to prepare and publish maps showing isopachs and regional variations in the facies of the various formations

PERSONNEL: H.R. Belyea

DATE OF BEGINNING: 1951

DATE OF COMPLETION:

 Research: Continuing

 Prelim. Pubs: 1952, 55, 59

 Final Pubs: --

PUBLICATIONS: Papers 52-27, 55-3, 55-38, 59-2. Several short papers in Journal of Alta. Soc. of Petroleum Geologists

PUBLICATIONS OUTSTANDING: Preliminary papers and outside papers

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 34. Oil and gas maps for Western Canada.
Preparation and revision of maps

LOCATION: Ottawa

OBJECTIVE: To prepare, revise and publish, as required, maps
showing oil and gas fields, oil and gas discoveries,
and related data

PERSONNEL: B. MacLean

DATE OF
BEGINNING: 1953

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: 1954-59

PUBLICATIONS: Yearly editions to 1959 of maps 1039A, 1044A

PUBLICATIONS
OUTSTANDING: Further editions of same maps

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 37. A petrographic study of the Upper Devonian reef-bearing Woodbend group of central Alberta

LOCATION: Calgary, Alberta

OBJECTIVE: To study the micro features of reef and non-reef deposits, and thereby provide information on types of porosity and other characteristics of the rock required for a better understanding of the causes of accumulation of oil and gas

PERSONNEL: H. R. Belyea

DATE OF
BEGINNING: 1953

DATE OF
COMPLETION:
Research: 1957
Prelim. Pubs: (?)
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Preliminary Paper

Temporarily Inactive

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 46. Preparation of papers for oral presentation and/or publication in scientific journals.

LOCATION: Ottawa and branch offices

OBJECTIVE: To prepare scientific papers and present them orally before learned societies or other organizations and/or to offer them for publication in scientific journals

PERSONNEL: Staff of the Geological Survey of Canada

DATE OF
BEGINNING: Continuing project

DATE OF
COMPLETION:
Research: Continuing project
Prelim. Pubs: --
Final Pubs: Continuing project

PUBLICATIONS: Articles in scientific journals; from July 1, 1958 to June 30, 1959 some 51 papers and articles were prepared and approved for oral presentation or for publication in scientific or technical journals.

PUBLICATIONS
OUTSTANDING: --

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 47. Subsurface study of the Lower
Cretaceous formations of southern Saskatchewan

LOCATION: Calgary, Alberta

OBJECTIVE: By a study of electric logs and samples from oil and
gas wells, to describe and illustrate the character,
distribution, structure, and correlation of the
principal Lower Cretaceous formations and thereby
assist exploration for oil and gas

PERSONNEL: L. L. Price

DATE OF
BEGINNING: May 1954

DATE OF
COMPLETION:
Research: 1957
Prelim. Pubs: 1959(?)
Final Pubs: --

PUBLICATIONS: --

PUBLICATIONS
OUTSTANDING: Preliminary Paper

RESEARCH REPORT
ON THE

PROJECT: ON THE ON THE ON THE

LOCATION: ON THE ON THE

OBJECTIVE: ON THE ON THE ON THE

STATUS: ON THE ON THE

DATE OF ON THE ON THE

BY ON THE ON THE

ON THE ON THE ON THE

ON THE ON THE ON THE

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 52. Maintenance of a branch office in Yukon

LOCATIONS: Whitehorse, Yukon

OBJECTIVE: To keep in touch with the mining industry of the Yukon and immediately adjacent areas; to assist prospectors and others with their geological and mining problems.

PERSONNEL: R. Skinner

DATE OF
BEGINNING: December, 1954

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS

OUTSTANDING: No publications expected. Principal projects undertaken at the Whitehorse office, including those expected to lead to publications, will be listed separately.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 59. Contribution to Schedule of Wells
Northwest Territories

LOCATIONS: Calgary

OBJECTIVE: To provide the "Schedule of Wells" with geological
data, with special reference to formation contacts

PERSONNEL: R.T.D. Wickenden, H.R. Belyea and D. Pugh

DATE OF
BEGINNING: 15 October, 1954

DATE OF
COMPLETION:
RESEARCH: Continuing
Prelim. Pubs: 1955
Final Pubs: --

PUBLICATIONS: Preliminary issue made June, 1955

PUBLICATIONS
OUTSTANDING: Published as drilling warrants in a mimeographed
"Schedule of Wells" released annually by the office
of the Petroleum Conservation Engineer, Department
of Northern Affairs and National Resources

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 62. Isotope chemistry of sulphur in rocks and ore deposits

LOCATION: Ottawa

OBJECTIVE: (1) To determine, with the mass spectrometer, the ratios of sulphur isotopes in sulphide and sulphate minerals collected from and in the vicinity of ore deposits.
(2) To use these data as an aid in establishing and explaining the genesis of ore deposits

PERSONNEL: R.W. Boyle, R.K. Wanless, J.A. Lowdon

DATE OF
BEGINNING: 1955

DATE OF
COMPLETION:
Research: 1957 (first phase)
Prelim. Pubs: 1959
Final Pubs: Undecided

PUBLICATIONS: Oral report given at Gordon Research Conference, July, 1956. Paper presented at Royal Society meetings 1959

PUBLICATIONS
OUTSTANDING: To Be submitted to Economic Geology, 1959, and to be presented orally at G.S.A. meetings, 1959

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 63. Dead-ice plateaux of Alberta

LOCATION: Ottawa

OBJECTIVE: By combining past field data with a current study of air photos, to describe the location, composition, formation, significance, and other features of many of the larger dead-ice plateaux of the moraine areas of Alberta

PERSONNEL: A. M. Stalker

DATE OF
BEGINNING: 1955

DATE OF
COMPLETION:
Research: 1958
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: Bulletin 57

PUBLICATIONS
OUTSTANDING: None

Completed

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 66. Glacial Features of southwest Yukon

LOCATION: Ottawa

OBJECTIVE: To interpret the glacial and fluvoglacial morphology of southwest Yukon from air photos, and thereby to plot the extent and thickness of Pleistocene ice.

PERSONNEL: J.E. Muller

DATE OF BEGINNING: February, 1955

DATE OF COMPLETION:
Research: Not estimated, because of prior commitment to planning for new Geological Survey building.

Prelim. Pubs:
Final Pubs:

PUBLICATIONS: None.

PUBLICATIONS OUTSTANDING: Uncertain, pending review of results of project

THE HISTORY OF THE
ROYAL SOCIETY OF LONDON

OF THE FOUNDATION AND PROGRESS OF THE SOCIETY, FROM THE YEAR 1660 TO 1700.

CHAPTER I.
OF THE FOUNDATION OF THE SOCIETY.
The first year of the reign of Charles II. was distinguished by the institution of the Royal Society, which was founded on the 27th of December, 1660. The society was originally composed of a few gentlemen of letters and science, who met together to discuss the principles of natural philosophy, and to promote the advancement of the human mind in the study of the sciences.

CHAPTER II.
OF THE EARLY PROCEEDINGS OF THE SOCIETY.

The first year of the society was spent in the election of a president, and in the establishment of the rules and regulations of the society. The first president was Francis Bacon, who was elected on the 27th of December, 1660. The society then proceeded to the election of a president, and in the year 1662, Sir Robert Boyle was elected president. The society then proceeded to the election of a president, and in the year 1663, Sir Robert Boyle was elected president.

CHAPTER III.
OF THE PROGRESS OF THE SOCIETY.

CHAPTER IV.
OF THE DEATH OF CHARLES II.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 68. A subsurface study of the Pennsylvanian and/or Permian, Triassic, and Jurassic formations in northeastern British Columbia

LOCATION: Calgary

OBJECTIVE: By a study of samples, cores, and electric and radioactivity logs of oil and gas wells to correlate, describe, and determine facies, changes of Pennsylvanian-Permian, Triassic, and Jurassic formations and to compile these for publication

PERSONNEL: D.C. Pugh

DATE OF
BEGINNING: December, 1954

DATE OF
COMPLETION:
Research: 1957
Prelim. Pubs: 1959(?)
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Preliminary Papers; possibly Memoir or Bulletin.
Paper on Jurassic formations in preparation

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 69. Ammonoidea of the Upper Triassic Pardonet Beds of Peace River foothills, British Columbia

LOCATION: Ottawa

OBJECTIVE: To revise, consolidate, and complete previous interim studies and publications pertaining to the stratigraphy and ammonoid fauna of the Upper Triassic Pardonet Beds of the Peace River foothills.

PERSONNEL: F.H. McLearn (retired)

DATE OF BEGINNING: October, 1952

DATE OF COMPLETION:

Research:	1957
Prelim. Pubs:	--
Final Pubs:	1959

PUBLICATIONS: Upper Triassic Ammonoidea of the Pardonet Formation Peace River foothills, B.C.

PUBLICATIONS OUTSTANDING: --

Completed

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M
F S G

PROJECT: O. P. 71. Isotopic studies of Sulphur from Canadian Petroleum Deposits.

LOCATION: Ottawa

OBJECTIVE: To determine whether variations in the isotopic composition of sulphur derived from petroleum, from oil field waters and from petroleum-bearing strata can be used to aid: (1) in correlation and dating of strata at and near petroleum-bearing horizons, and (2) in determining the source rocks from which petroleum in various fields was originally derived.

PERSONNEL: H.R. Belyea, J.A. Maxwell and R.K. Wanless

DATE OF
BEGINNING: June 1955 - preliminary evaluation of results,
May, 1957.

DATE OF
COMPLETION:
Research: Continuing (additional analyses needed)
Prelim. Pubs {?}
Final Pubs: {?}

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Paper and Bulletin depending on results

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 74. Briquetting studies

LOCATION: Sydney

OBJECTIVE: By use of suitable solvents and pressures, to develop an economical method of making commercially acceptable briquettes from Nova Scotia and other slack coal.

PERSONNEL: L.H. King plus assistant

DATE OF
BEGINNING: 10 June, 1955

DATE OF
COMPLETION:
Research: 1956
Prelim. Pubs: --
Final Pubs: 1959(?)

PUBLICATIONS
OUTSTANDING: L.H. King transferred to Mines Branch, Oct. 1956.
Report expected in 1959

THE HISTORY OF THE
REPUBLIC OF THE UNITED STATES

By the Honorable John Jay, Chief Justice of the Supreme Court, and the Honorable James Madison, Secretary of State.

Published by the Government Printing Office, Washington, D.C., 1788.

Price, One Dollar.

For Sale by the Author, at the Office of the Secretary of State, and by the Booksellers, in the City of New York.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 77. Rock and mineral analysis

LOCATION: Ottawa

OBJECTIVE: To continue to provide: (1) Complete or partial qualitative analyses of rocks submitted by Survey geologists; (2) Analyses of special minerals submitted by Survey geologists; (3) Special analyses where required. In addition, efforts will be made to investigate and apply new methods of analysis where possible

PERSONNEL: J.A. Maxwell, S. Courville, G. Bender and K. Hoops

DATE OF
BEGINNING: Many years ago

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Data to be incorporated in reports by various Geological Survey officers.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 79. Geological Index Map of Canada

LOCATION: Ottawa

OBJECTIVE: To compile and maintain in convenient form a graphic record of geological map coverage of Canada by (1) G.S.C., and (2) Provincial Government agencies. For: (1) planning future G.S.C. work (2) publication, if and when warranted, of an index map showing areas for which G.S.C. maps have been published, and (3) periodic computation of area covered by G.S.C. maps

PERSONNEL: H.M.A. Rice and J.F. Wright

DATE OF
BEGINNING: 1 September, 1955

DATE OF
COMPLETION:
Research: Continuing Project
Prelim. Pubs: --
Final Pubs: Continuing Project

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Index maps (if and when warranted)

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 80. Field Photo Collection

LOCATION: Ottawa

OBJECTIVE: To select and maintain a catalogue and file of transparencies and photographs (stills and movies) illustrating geological and related features of Canada and activities of the G.S.C.

PERSONNEL: J.F. Wright

DATE OF
BEGINNING: 15 September, 1955

DATE OF
COMPLETION:
Research: Continuing project
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 81. Palaeomagnetic Studies

LOCATION: Ottawa

OBJECTIVE: To collect and prepare rock samples and to measure the direction of remanent magnetism. To accumulate data expected to reveal the direction of the earth's magnetic field during geologic history. To throw light on age and structural relationships of rock formations

PERSONNEL: P.M. Dubois, A. Larochelle

DATE OF
BEGINNING: October, 1955

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Papers in Scientific Journals.
Memoir by P.M. Dubois submitted.
Bulletin by A. Larochelle submitted

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O.P. 82. Cretaceous marine zones of the Canadian Western Interior, and their correlation with U.S. Western Interior and European standard divisions.

LOCATION: Ottawa

OBJECTIVE: Preparation of a paper for the Cretaceous Symposium of the International Geological Congress, Mexico City, September, 1956

PERSONNEL: J. Jeletsky

DATE OF BEGINNING: September, 1955

DATE OF COMPLETION:

Research: 1956

Prelim. Pubs: --

Final Pubs: 1957, 1959(?)

PUBLICATIONS: Paper in Symposium Volume of the International Geological Congress

PUBLICATIONS OUTSTANDING: Paper in preparation

THE HISTORY OF THE
CITY OF BOSTON

From the first settlement in 1630 to the present time
the city has grown from a small fishing village to one of the
largest and most important in the world.

The city has a rich and varied history, and its
growth has been the result of many factors, including
its strategic location and its natural resources.

THE HISTORY OF THE CITY OF BOSTON

THE HISTORY OF THE CITY OF BOSTON

THE HISTORY OF THE CITY OF BOSTON

THE HISTORY OF THE CITY OF BOSTON

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 83. Radioactive waste disposal.

LOCATION: Chalk River, Ontario

OBJECTIVE: To render geological advice and assistance to A.E.C. staff at Chalk River engaged in studies of disposal of radioactive wastes

PERSONNEL: J.A. Fraser (1955-56), M.R. Gadd (1956-58)

DATE OF
BEGINNING: 7 November, 1955

DATE OF
COMPLETION:
Research: 1959
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: Topical Report No. 6

PUBLICATIONS
OUTSTANDING: None

Completed

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 88. Study of G.S.C., Collection of Fossil
Insects

LOCATION: Ottawa

OBJECTIVE: (1) Organization and arrangement of Survey
collection;
(2) Identification of orders, genera, and species,
as far practicable;
(3) Consideration of stratigraphic significance of
collections;
(4) Figuring and description of specimens

PERSONNEL: H.M.A. Rice (most of work is expected to be done out
of office hours)

DATE OF
BEGINNING: November, 1955

DATE OF
COMPLETION:
Research: Continuing project
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: Bulletin 55

PUBLICATIONS
OUTSTANDING: Possibly additional Bulletins

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 89. Preparation of a field itinerary and guide book for the Palaeobotanical Section of the International Botanical Congress, Montreal, 1959.

LOCATION: Ottawa

OBJECTIVE: As a member of a committee to investigate and plan with others the field excursions to be undertaken by the Congress and to assist in the preparation of a Guide Book. This may involve pre-excursion trips to various field localities

PERSONNEL: D.C. McGregor (1958), J. Terasmae

DATE OF
BEGINNING: February, 1956

DATE OF
COMPLETION:
Research: 1959(?)
Prelim. Pubs: (?)
Final Pubs: 1959

PUBLICATIONS: Palaeobotanical Excursion to Eastern Canada

PUBLICATIONS
OUTSTANDING:

Completed

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M D

PROJECT: O.P. 91. Second edition of Economic Geology Series
No. 16

LOCATION: Ottawa

OBJECTIVE: To prepare for publication the revised edition of
"Canadian Deposits of Uranium and Thorium", and add
additional information now available

PERSONNEL: A.H. Lang, J.W. Griffith, and H.R. Steacy

DATE OF
BEGINNING: 1 April, 1956

DATE OF
COMPLETION:
Research: 1958
Prelim. Pubs: 1956
Final Pubs: 1959(?)

PUBLICATIONS: Paper 56-5. First edition called "Interim Account"
out of print

PUBLICATIONS
OUTSTANDING: Second edition of Economic Geology Series No. 16
submitted

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 96. Service on Boards, Committees, etc.,
dealing with geological and related matters

LOCATION: Ottawa (mainly)

OBJECTIVE: To further the interests of the Geological Sciences
in Canada

PERSONNEL: Officers of the Geological Survey

DATE OF
BEGINNING: 1956

DATE OF
COMPLETION: Research Continuing project, services of individual
officers will terminate from time to time

Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 98. Isotopic study of Canadian ore leads

LOCATION: Ottawa

OBJECTIVE: (1) To determine the lead (and possibly sulphur) isotope distribution in lead ores. (2) To investigate possible isotope variations with geological environment. (3) To determine the direction and magnitude of isotopic fractionation of lead isotopes as a result of chemical and physical processes in nature. (4) When applicable, to establish the age, employing the "common lead" method of dating

PERSONNEL: R.K. Wanless and J.A. Lowdon

DATE OF
BEGINNING: May, 1956

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: (?)
Final Pubs: (?)

PUBLICATIONS: Paper presented at A.G.U. - "Lead Isotope Studies of the Sullivan and Other Deposits in the East Kootenay District Southeastern B.C.", by R.K. Wanless and G.B. Leech

PUBLICATIONS
OUTSTANDING: Appropriate Geological Survey publications as results warrant

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 99. Thin section and hand specimen collection

LOCATION: Ottawa

OBJECTIVE: To prepare and maintain a collection of rock specimens and thin sections to illustrate the optical properties and mode of occurrence of rock forming minerals as well as rock textures

PERSONNEL: K. R. Dawson

DATE OF
BEGINNING: 1957(?). First priority to current and recent work

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

MEMORANDUM FOR THE RECORD

RE: [Illegible]

DATE: [Illegible]

BY: [Illegible]

APPROVED: [Illegible]

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 100. Jupiter River, Anticosti Island

LOCATION: Ottawa

OBJECTIVE: To prepare Geological map and report from unpublished data in note book file of Geological Survey

PERSONNEL: J.F. Caley and F.H. McLearn

DATE OF
BEGINNING: 1 October, 1956

DATE OF
COMPLETION:
Research: 1957
Prelim. Pubs: (?)
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Preliminary Paper (being prepared by F.H. McLearn)

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 101. G.S.C. mineral and ore collections

LOCATION: Ottawa

OBJECTIVE: To reorganize, catalogue, index, and maintain mineral and ore collections of the G.S.C.

PERSONNEL: R. J. Traill

DATE OF
BEGINNING: May, 1955

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: 1960(?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: See O. P. 160

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M₂

PROJECT: O. P. 102. Gordon Lake-Werner Lake nickel-copper-cobalt deposits

LOCATION: Ottawa

OBJECTIVE: Laboratory mineralogical investigation

PERSONNEL: E. R. Rose

DATE OF
BEGINNING: October, 1956

DATE OF
COMPLETION:
Research: 1957
Prelim. Pubs: 1958
Final Pubs: --

PUBLICATIONS: Paper 58-6

PUBLICATIONS
OUTSTANDING: None

Completed

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

RESEARCH REPORT NO. 1000
BY [Name] AND [Name]

RECEIVED
[Date]

1950

1. Introduction
2. Experimental
3. Results
4. Discussion
5. Conclusions

REFERENCES

1. [Reference 1]
2. [Reference 2]

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 103. Temagami Island copper-nickel-cobalt deposits

LOCATION: Ottawa

OBJECTIVE: Laboratory mineralogical investigation

PERSONNEL: E. R. Rose

DATE OF
BEGINNING: January, 1957

DATE OF
COMPLETION:
Research: 1957
Prelim. Pubs: 1959(?)
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Preliminary Paper

1910

1. 1910-1911

1911

1912

1913

1914

1915

1916

1917

1918

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 105. Booklet for T.C.A. distribution

LOCATION: Ottawa

OBJECTIVE: To prepare manuscript for a booklet for distribution on T.C.A., aircraft, describing the geology and mineral resources along T.C.A. Canadian Airways; to show the geological significance of the land forms, the relation of mining to this geology, and the importance of mining in Canada's economy; to advertise G.S.C.

PERSONNEL: R.G. Blackadar, with assistance and advice from T.C.A. personnel through J.A. McGee, Advertising Manager, Trans-Canada Air Lines

DATE OF
BEGINNING: October, 1956, See letter, Mr. Prudham to Mr. McGregor, 21 March 1956 (our file 3-14-7)

DATE OF
COMPLETION:
Research: 1957
Prelim. Pubs: --
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: A Booklet, Folder, or similar publication for distribution through Trans-Canada Air Lines

ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA

Vol. 54, No. 1, February 1963

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CONTENTS (continued)

On the Biology of the Larvae of the Genus <i>Phaenocarpa</i> (Diptera: Tephritidae)	1
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On the Biology of the Larvae of the Genus <i>Phaenocarpa</i> (Diptera: Tephritidae)	1
On the Biology of the Larvae of the Genus <i>Phaenocarpa</i> (Diptera: Tephritidae)	1

CONTENTS (continued)

On the Biology of the Larvae of the Genus <i>Phaenocarpa</i> (Diptera: Tephritidae)	1
On the Biology of the Larvae of the Genus <i>Phaenocarpa</i> (Diptera: Tephritidae)	1
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On the Biology of the Larvae of the Genus <i>Phaenocarpa</i> (Diptera: Tephritidae)	1

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 107. Cretaceous marine zones of the western interior of Canada

LOCATION: Ottawa

OBJECTIVE: To present a comprehensive description of the palaeontology and stratigraphy of the marine cretaceous strata of the western interior of Canada

PERSONNEL: J.A. Jeletzky

DATE OF BEGINNING: 1956

DATE OF COMPLETION:
Research: Continuing
Prelim. Pubs: (?)
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS OUTSTANDING: Bulletin or bulletins

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 108. Miscellaneous office projects

LOCATION: Ottawa

OBJECTIVE: Projects included here are those which, because they were started before the project system was initiated, or for other good reasons, proceeded to near completion without being given a project number.

PERSONNEL: Mainly staff of the Geological Survey; in special instances non-Survey staff.

DATE OF
BEGINNING: --

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: Continuing

PUBLICATIONS: Bulletin 54, Geological Reconnaissance by Light Helicopter.

PUBLICATIONS
OUTSTANDING: Various publications of the Geological Survey.
Thesis - memoir - The Alberta Group of Equivalent Rocks, Rocky Mountain Foothills, Alberta, submitted.
A Fauna from the Southern River Formation, Devon Island, Canadian Arctic Archipelago, submitted

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 109. Quantitative Interpretation of
Aeromagnetic Maps

LOCATION: Ottawa

OBJECTIVE: To describe, with examples taken from Geological
Survey aeromagnetic maps, methods of quantitative
interpretation of aeromagnetic maps

PERSONNEL: D. Smellie

DATE OF
BEGINNING: 15 August, 1956

DATE OF
COMPLETION:
Research: 1956
Prelim. Pubs: --
Final Pubs: 1959(?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Bulletin submitted

1. Introduction
The purpose of this study is to investigate the effects of various factors on the performance of a system. The study is organized as follows: Chapter 2 describes the methodology used in the study. Chapter 3 presents the results of the study. Chapter 4 discusses the implications of the findings. Chapter 5 concludes the study.

2. Methodology
The study was conducted using a combination of experimental and analytical methods. The experimental part of the study involved the development of a test environment and the execution of a series of experiments. The analytical part of the study involved the development of a mathematical model and the analysis of the results of the experiments.

3. Results
The results of the study are presented in this chapter. The first part of the chapter describes the results of the experimental part of the study. The second part of the chapter describes the results of the analytical part of the study. The results show that the performance of the system is significantly affected by the factors investigated in the study.

4. Conclusions
The study has shown that the performance of the system is significantly affected by the factors investigated in the study. The results of the study have important implications for the design and operation of the system.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 110. Nuclear Absorption Studies

LOCATION: Ottawa

OBJECTIVE: To investigate the capabilities of the nuclear resonance absorption technique (Calvaresi method) for determining buried minerals.

PERSONNEL: L. S. Collett, H. Wesemeyer, and H. Knapp

DATE OF
BEGINNING: 1 September, 1956

DATE OF
COMPLETION:
Research: Indefinite
Prelim. Pubs: (?)
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Depends on results

Inactive

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 114. Stratigraphy and Fauna of the Permian
Section at Grinnell Peninsula, Devon Island,
District of Franklin.

LOCATION: Ottawa

OBJECTIVE: To prepare for publication, from material collected
by Dr. Thorsteinsson, an appropriate report on the
stratigraphic palaeontology of the Grinnell
Peninsula

PERSONNEL: P. Harker and R. Thorsteinsson

DATE OF
BEGINNING: 1 January, 1957

DATE OF
COMPLETION:
Research: 1957
PRELIM. Pubs: --
FINAL Pubs: 1959

PUBLICATIONS: Memoir 309

PUBLICATIONS
OUTSTANDING:

Completed

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 116. Magnesium Isotopes

LOCATION: Ottawa

OBJECTIVE: A survey of the variations in abundance of magnesium isotopes from different geological environments, to determine if a fractionation of isotopes takes place and whether distinctive abundances are indicative of distinctive environments. To use results to elucidate various geological processes. Method to be reappraised on completion of this phase

PERSONNEL: R.K. Wanless, J.A. Maxwell, and C.H. Smith

DATE OF
BEGINNING: 1 February, 1957

DATE OF
COMPLETION:
Research: In abeyance until completion of 2nd mass spectrometer

Prelim. Pubs: (?)
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Depending on progress and results

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M D

PROJECT: O. P. 117. Analyses of Research Projects for Subcommittee on Metallic Mineral Deposits, National Advisory Committee on Research in the Geological Sciences

LOCATION: Ottawa

OBJECTIVE: To prepare and maintain a record of projects suggested to the above subcommittee of the National Advisory Committee on Research in the Geological Sciences, and of comments and progress thereon

PERSONNEL: A. H. Lang

DATE OF BEGINNING: February, 1957

DATE OF COMPLETION:

Research:	Continuing
Prelim. Pubs:	--
Final Pubs:	(?)

PUBLICATIONS: Data to end of 1956 summarized and circulated to members of subcommittee

PUBLICATIONS OUTSTANDING: As appropriate, by the National Advisory Committee on Research in the Geological Sciences.

THE HISTORY OF THE
REPUBLIC OF THE UNITED STATES

The first part of the history of the United States is the period from the discovery of the continent by Christopher Columbus in 1492 to the establishment of the first permanent English colony in 1607. This period is characterized by the gradual settlement of the eastern coast and the development of a distinct American identity.

1607-1776

The second part of the history of the United States is the period from the establishment of the first permanent English colony in 1607 to the American Revolution in 1776. This period is characterized by the westward expansion of the colonies and the growing tensions between the colonies and Great Britain.

1776-1865

The third part of the history of the United States is the period from the American Revolution in 1776 to the Civil War in 1865. This period is characterized by the development of a federal government and the struggle over slavery.

1865-1914

The fourth part of the history of the United States is the period from the Civil War in 1865 to the end of World War I in 1914. This period is characterized by the Reconstruction era and the rise of industrialization.

1914-1945

The fifth part of the history of the United States is the period from the end of World War I in 1914 to the end of World War II in 1945. This period is characterized by the rise of the United States as a world superpower and the Great Depression.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 119. Meteorite Collection

LOCATION: Ottawa

OBJECTIVE: To catalogue, study, describe, and otherwise be responsible for the maintenance, growth, use and display of the Geological Survey meteorite collection

PERSONNEL: K. R. Dawson

DATE OF
BEGINNING: February, 1957

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: 1959 outside paper
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS

OUTSTANDING: G.S.C. publications and/or outside papers as required

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 120. Petrological Collections

LOCATION: Ottawa

OBJECTIVE: To obtain and maintain representative suites of rocks from all mapped areas of Canada for future petrological geochemical, and other scientific studies. In general these collections will be obtained by the cooperation of the various field officers

PERSONNEL: K.R. Dawson

DATE OF
BEGINNING: 1957

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: 1959(?)
Final Pubs --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Preliminary paper

THE HISTORY OF THE
ROYAL SOCIETY OF LONDON

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 121. Compilation of Canadian Rock and Mineral Analyses

LOCATION: Ottawa

OBJECTIVE: To collect, evaluate, and publish in appropriate form and at appropriate intervals all Geological Survey Canadian rock and mineral analyses; and, if and when practicable, to expand this task to include all similar data from other sources (Provincial Surveys, Universities, Theses, Commercial sources, etc.)

PERSONNEL: K.R. Dawson and J.A. Maxwell

DATE OF BEGINNING: February 1957

DATE OF COMPLETION:
Research: Continuing. G.S.C. data 1959(?)
Prelim. Pubs: 1958
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS OUTSTANDING: Preliminary paper
Bulletins (?)

SECRET

1. The first part of the document discusses the general situation of the country and the role of the government.

2. The second part of the document discusses the economic situation and the role of the government.

3. The third part of the document discusses the social situation and the role of the government. It mentions the need for social justice and the role of the government in providing social services.

4. The fourth part of the document discusses the political situation and the role of the government.

5. The fifth part of the document discusses the international situation and the role of the government.

6. The sixth part of the document discusses the role of the government in the future.

7. The seventh part of the document discusses the role of the government in the future.

8. The eighth part of the document discusses the role of the government in the future.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 122. Palaeozoic Outliers of the Canadian Shield

LOCATION: Ottawa

OBJECTIVE: To compile and maintain all available data on the distribution and geology of the Palaeozoic Outliers in the Canadian Shield, and to evaluate their palaeogeographical and other geological significance

PERSONNEL: B.A. Liberty

DATE OF BEGINNING: February, 1957

DATE OF COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: (?)

PUBLICATIONS: Paper on "Palaeozoic Outliers in Canada, and Their Import", presented at annual meeting of G.A.C. in 1957 and 1958

PUBLICATIONS OUTSTANDING: Nil

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CONFIDENTIAL

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

PPC

PROJECT: O. P. 123. Post-glacial Deposits in the
St. Lawrence Lowland

LOCATION: Ottawa

OBJECTIVE: To establish by means of palynological
investigations the end of the Champlain Sea
interval in the lowland; to provide information
on the age of certain glacial and post-glacial
features in the lowland, and north of the
St. Lawrence River; to date by the radiocarbon
method certain recognizable levels in the
standard pollen diagram for this region

PERSONNEL: J. Terasmae

DATE OF
BEGINNING: May, 1957

DATE OF
COMPLETION:
Research: December, 1957
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: Bulletin 56

PUBLICATIONS
OUTSTANDING: None

Completed

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M D

PROJECT: O. P. 125. Metallogenic Maps of Canada

LOCATION: Ottawa

OBJECTIVE: To prepare a composite map illustrating Canadian metallogenic provinces for all major metals and as many minor ones as practical, and, at the same time to prepare individual metallogenic maps

PERSONNEL: W.D. McCartney (since June, 1959) and officers of division part time,

DATE OF BEGINNING: November, 1957

DATE OF COMPLETION:
Research: 1962 or later
Prelim. Pubs: --
Final Pubs: As maps are compiled

PUBLICATIONS: Maps 1045-A, M2, M3

PUBLICATIONS OUTSTANDING: A series of metallogenic maps

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 126. Construction of a Curie-point Meter

LOCATION: Ottawa

OBJECTIVE: To obtain an instrument capable of accurately measuring the Curie-point of ferromagnetic minerals and use this in an investigation of polarized igneous rocks

PERSONNEL: A. Laroche

DATE OF
BEGINNING: October, 1957

DATE OF
COMPLETION:
Research: April, 1958
Prelim. Pubs: --
Final Pubs: (?)

PUBLICATIONS:

PUBLICATIONS
OUTSTANDING: Bulletin

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 127. Study of mineralogical, petrographical, and chemical variations in the Mount Albert ultrabasic intrusion, Quebec

LOCATION: Ottawa

OBJECTIVE: To test the chemical homogeneity of the intrusion. Other objectives are to set up techniques for the study of other ultrabasic bodies, and to determine whether optical, x-ray, or chemical analyses will be preferable in future work, in particular that contemplated in connection with G.S. 57-28 (Ultrabasic rocks of Canada) being undertaken by Dr. C.H. Smith

PERSONNEL: C.H. Smith, and seasonal employee I.D. MacGregor

DATE OF BEGINNING: December, 1957

DATE OF COMPLETION:
Research: April, 1960 (pursued by MacGregor as M.Sc. thesis topic)

Prelim. Pubs: None
Final Pubs: 1960 or later

PUBLICATIONS: None

PUBLICATIONS OUTSTANDING: Bulletin or Paper Series report

REPORT ON THE PROGRESS OF THE WORK
(1910-1911)

The first part of the report deals with the work done during the year. It is divided into two main sections: the first dealing with the work done in the laboratory and the second dealing with the work done in the field.

The work done in the laboratory during the year has been mainly devoted to the study of the properties of the various types of wood. It has been found that the properties of wood vary considerably with the species and with the conditions under which it is grown.

The work done in the field during the year has been mainly devoted to the study of the growth of wood in the various types of forest.

The results of the work done during the year are given in the following tables:

Table I. Properties of various types of wood.

Species	Weight	Strength	Stiffness
Oak	High	High	High
Pine	Low	Low	Low
Maple	Medium	Medium	Medium

Table II. Growth of wood in various types of forest.

Forest Type	Growth Rate
Coniferous	High
Deciduous	Medium
Mixed	Low

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 130. Catalogue of Geological Survey of Canada Publications according to the National Topographical System.

LOCATION: Ottawa

OBJECTIVE: To prepare for publication a catalogue listing all Geological Survey publications (maps and reports) pertaining to each appropriate unit area of the National Topographic System

PERSONNEL: A.G. Johnston (1957-59), Mrs. L.R. Mahoney

DATE OF
BEGINNING: August, 1957

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: A catalogue of Geological Survey of Canada publications according to the National Topographical System

PUBLICATIONS
OUTSTANDING: Additions and revisions at appropriate intervals

THE HISTORY OF THE
ROYAL SOCIETY OF LONDON

In the year 1660, the Royal Society of London was founded by a group of natural philosophers, who met together to discuss the principles of natural philosophy, and to promote the advancement of the sciences.

1660-1661

The first meeting of the Royal Society was held on 28th December 1660, at Gresham College, London. The members of the society were: Robert Boyle, Christopher Wren, Robert Hooke, Christopher Marlowe, Francis Bacon, and others.

1662-1663

The society continued to meet regularly, and in 1662, the king granted them a charter, which confirmed their rights and privileges.

1663-1664

The society's first major publication was the Philosophiæ Naturalis Principia Mathematica, by Isaac Newton, published in 1687.

1665-1666

The society's first major experiment was the experiment of the vacuum, performed by Robert Boyle in 1662.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 131. Jurassic faunas of the Canadian Arctic Islands

LOCATION: Ottawa

OBJECTIVE: To describe the fauna, age, and correlation of the Jurassic rocks of the Canadian Arctic Islands, these data to be derived particularly from collections of fossils obtained by Operation Franklin

PERSONNEL: H. Fربولd

DATE OF
BEGINNING: November, 1957

DATE OF
COMPLETION:
Research: January, 1958
PRELIM. Pubs: --
Final Pubs: 1958

PUBLICATIONS: Bulletin 41
R.S.C. Transactions, Sec. IV, 3rd series, vol. 52, 1958

PUBLICATIONS
OUTSTANDING: Bulletin 5

$$\frac{1}{(1-x)^2} = \sum_{n=0}^{\infty} (n+1)x^n$$

Let $f(x) = \frac{1}{(1-x)^2}$. Then $f'(x) = \frac{2}{(1-x)^3}$.

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 132. Fauna and Stratigraphy of the
Oxfordian Green Beds in western Canada

LOCATION: Ottawa

OBJECTIVE: To describe the fauna and stratigraphy of the
Oxfordian Green Beds (upper part of the Fernie
Group) based on recent field data obtained by
H. Frebold, E. Mountjoy, and R. Reed (Shell Oil
Co.)

PERSONNEL: H. Frebold, E. Mountjoy, (and R. Reed of Shell
Oil Co.)

DATE OF
BEGINNING: October, 1957

DATE OF
COMPLETION:
Research: December, 1957
Prelim. Pubs: --
Final Pubs: 1958

PUBLICATIONS: Bulletin - The Oxfordian Beds of the Jurassic
Fernie Group, Alberta and British Columbia

PUBLICATIONS
OUTSTANDING: None

Completed

CONFIDENTIAL

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 133. Jurassic rocks of the Nelson and Salmo map-areas, B.C.

LOCATION: Ottawa

OBJECTIVE: To determine the age of the various Jurassic beds of the above map-areas, and to describe their contained fauna. This investigation will be based on field studies and collections made in these map-areas by H.W. Little and H. Frebold

PERSONNEL: H. Frebold

DATE OF
BEGINNING: November, 1957

DATE OF
COMPLETION:
Research: January, 1958
Prelim. Pubs: --
Final Pubs: 1958

PUBLICATIONS: Bulletin - Marine Jurassic Rocks in Nelson and Salmo Areas Southern B. C.

PUBLICATIONS
OUTSTANDING:

Completed

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M D

PROJECT: O. P. 134. Laboratory investigation of uraninite in greywacke from Creelman township., Sudbury district, Ontario

LOCATION: Ottawa

OBJECTIVE: To describe the mode of occurrence, mineralogy, age, and other geological features of this unusual radioactive deposit; and to demonstrate (or otherwise) the presumably detrital origin of the uraninite found in greywacke interlayered with Gowganda conglomerate

PERSONNEL: H.R. Steacy, J.W. Griffith, and R.J. Traill

DATE OF
BEGINNING: January, 1958

DATE OF
COMPLETION:
Research: 1958
Prelim. Pubs: --
Final Pubs: 1960(?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: A paper in a scientific journal

Inactive

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 135. Compilation of drift thickness in the City of Ottawa

LOCATION: Ottawa

OBJECTIVE: To make an isopach (drift-thickness) map of the overburden, and to make a bedrock surface contour map in the City of Ottawa area. Data will be obtained from various sources, including Department of Public Works, National Research Council, Federal District Commission various engineering firms, drillers, and Department of Planning and Development of the City of Ottawa

PERSONNEL: J.M. Bostock (resigned)

DATE OF
BEGINNING: May, 1957

DATE OF
COMPLETION:
Research: 1958
Prelim. Pubs: 1958, 1959
Final Pubs: --

PUBLICATIONS: Map 13-1958

PUBLICATIONS

OUTSTANDING: Revised map 13-1958 and preliminary map, Isopach Map of Eastern Ontario, submitted

CONFIDENTIAL

CONFIDENTIAL - SECURITY INFORMATION

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 136. Pleistocene ice dome in Hudson Bay

LOCATION: Ottawa

OBJECTIVE: To assemble, evaluate, and present the evidence pointing to the former existence of a Pleistocene ice dome in Hudson Bay

PERSONNEL: H. A. Lee

DATE OF
BEGINNING: January, 1958

DATE OF
COMPLETION:
Research: 1958
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: Paper in G.S.A. Bulletin, vol. 70, pp. 219-222,
1959

PUBLICATIONS
OUTSTANDING:

Completed

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 137. "Beach moraines" along the east coast of Hudson Bay and James Bay.

LOCATION: Ottawa

OBJECTIVE: To describe the "beach moraines"; to present and support an adequate theory for their origin; and to relate their origin to the glacial and post-glacial geological history of the area

PERSONNEL: H.A. Lee

DATE OF
BEGINNING: January 1958

DATE OF
COMPLETION:
Research: 1958
Prelim. Pubs: --
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS

OUTSTANDING: A paper in a scientific journal, or an appropriate Geological Survey publication

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 138. Construction of anisotropic susceptibility meter

LOCATION: Ottawa

OBJECTIVE: To construct an Ising-type meter to measure the anisotropic component of the magnetic susceptibility of weakly magnetized rocks. Measurements expected to help: (1) determine the mode of magnetizations found in rocks; (2) show if any correlation between the direction of remanent magnetism and the direction of the principal axes of anisotropic susceptibility; (3) in petrofabric studies.

PERSONNEL: P.M. DuBois (resigned)

DATE OF BEGINNING: January, 1958

DATE OF COMPLETION:
Research: April, 1958
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: No decision

PUBLICATIONS OUTSTANDING: None

Abandoned

THE HISTORY OF THE

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 139. Interpretation of G.S.C. aeromagnetic maps of Alberta

LOCATION: Ottawa and Edmonton (Univ. of Alta)

OBJECTIVE: With the aid of an electronic computer, to determine the depth and configuration of the Precambrian basement surface underlying sedimentary strata and to infer basement lithology from aeromagnetic data

PERSONNEL: Miss M.E. Bower and G. Garland (Univ. of Alta.*)

DATE OF
BEGINNING: January 1958

DATE OF
COMPLETION:
Research: June, 1959
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Oral presentation at Fifth World Petroleum Congress, New York, June, 1959. Possibly a paper sponsored by the Congress

Completed

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 140. High altitude test survey interpretation

LOCATION: Ottawa

OBJECTIVE: To compile and evaluate the results of an aeromagnetic test survey in N.B. The results to aid in more precise statements in future calculations

PERSONNEL: Miss M.E. Bower

DATE OF
BEGINNING: January, 1958

DATE OF
COMPLETION:
Research: (?) postponed in favour of work on O.P. 139
Prelim. Pubs: --
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Possibly a bulletin. Various outside organizations are studying this data

Inactive

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

MEMORANDUM FOR THE RECORD

RE: [Illegible]

DATE: [Illegible]

[Illegible]

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 141. A palynological study of the
Pleistocene Toronto formation.

LOCATION: Ottawa

OBJECTIVE: To establish the chronologic position of the
Toronto formation by a palynological study
supported by stratigraphic observations, and
thereby to further the understanding of
Pleistocene chronology in eastern North America.

PERSONNEL: J. Terasmae

DATE OF
BEGINNING: May, 1957

DATE OF
COMPLETION:
Research: Completed as a Ph.D. thesis project
Prelim. Pubs: None
Final Pubs: 1959(?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: A Geological Survey Bulletin

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 142. 'Rapid' fusion technique for
determining composition of plagioclase feldspars

LOCATION: Ottawa

OBJECTIVE: To determine the loss of sodium and potassium
in plagioclase feldspar glasses and thus evaluate
the accuracy of this technique in determining the
composition of plagioclase feldspars

PERSONNEL: S. Courville, K.R. Dawson, J.A. Maxwell

DATE OF
BEGINNING: 1958

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: 1958, 1959
Final Pubs: --

PUBLICATIONS: Canadian Mineralogist 1958, 1959

PUBLICATIONS

OUTSTANDING: Papers in a scientific journal

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O.P. 143. Cooperative Evaluation of methods of fluorine determination.

LOCATION: Ottawa

OBJECTIVE: To evaluate methods of fluorine determination by interlaboratory cooperation, as proposed by Dr. R.P. Hollingworth, University of Durham.

PERSONNEL: J.A. Maxwell

DATE OF
BEGINNING: 1958

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: None
Final Pubs: None

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 144. Lead and Sulphur Isotope Geology of Keno and Galena Hills, Yukon

LOCATIONS: Ottawa

OBJECTIVE: To determine the isotopic abundances of lead and sulphur in the lead-zinc-sulphur deposits and their host rocks, and from the data to determine, if possible, the source of the elements in the deposits and the processes which have led to their concentration

PERSONNEL: R.W. Boyle and R. K. Wanless

DATE OF
BEGINNING: January, 1958

DATE OF
COMPLETION:
Research: June 1959, or later
Prelim. Pubs: 1959
Final Pubs: Depends on results and progress

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: A geological Survey Bulletin and/or paper or papers in a scientific journal

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 145. Surficial geology of parts of Districts of Keewatin and Mackenzie, N.W.T.

LOCATION: Ottawa

OBJECTIVE: To prepare copy for chapter on surficial geology to be included in memoir incorporating results of G.S. 55-1

PERSONNEL: B.G. Craig, J.G. Fyles, and H.A. Lee

DATE OF
BEGINNING: April, 1958

DATE OF
COMPLETION:
Research: 1960
Prelim. Pubs: --
Final Pubs: 1960

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Included in memoir on G.S. 55-1

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 146. Development of magnetic resonance apparatus for laboratory chemical analyses

LOCATION: Ottawa

OBJECTIVE: To develop apparatus for the qualitative and quantitative analysis of rocks and minerals by means of magnetic resonance techniques. Both nuclear paramagnetic and electron paramagnetic resonances are to be employed.

PERSONNEL: H. Wesemeyer

DATE OF
BEGINNING: March, 1958

DATE OF
COMPLETION:
Research: 1960
Prelim. Pubs: --
Final Pubs: 1960

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Possibly a paper in a technical journal

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 147. Electron Spin Resonance at Very Low
Fields

LOCATION: Ottawa

OBJECTIVE: Investigation as to the feasibility of using the
principle of electron spin resonance at very low
magnetic fields for prospecting purposes

PERSONNEL: H. Wesemeyer

DATE OF
BEGINNING: March, 1958

DATE OF
COMPLETION:
Research: Indefinite
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None contemplated

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 148. Coordination of all matters concerning radiocarbon (C-14) dates as required by the Pleistocene subsection

LOCATION: Ottawa

OBJECTIVE: To centralize and coordinate all matters concerning radiocarbon dates where these concern the Pleistocene subsection of the G.S.C. To be responsible for; maintaining an appropriate record for such dates; recording and handling requests for laboratory determination of dates; related matters

PERSONNEL: J.G. Fyles

DATE OF BEGINNING: October, 1957

DATE OF COMPLETION:

Research: A continuing project

Prelim. Pubs: --

Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS OUTSTANDING: None

THE HISTORY OF THE
REPUBLIC OF THE UNITED STATES

The history of the Republic of the United States is a story of growth and progress. It is a story of the people who have built this nation, and of the challenges they have overcome. From the first settlers to the present day, the United States has been a land of opportunity and freedom.

The early years of the Republic were marked by the struggle for independence. The American people fought a brave war against the British, and in 1776 they declared their independence. This was a momentous event, and it marked the beginning of a new nation. The United States was born, and it has since grown into a great power.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 149. Contributions to Canadian Fossil
Arthropoda

LOCATION: Ottawa

OBJECTIVE: By office examination to prepare a paper on the
following:
(1) Genera Echinocaris and Spathiocaris in
western Canada
(2) Occurrence of Silurian Ceratiocaris in
Canadian Arctic
(3) Some Canadian Silurian and Devonian
Eurypterida
(4) Prepare bibliographic list of Canadian
Eurypterida

PERSONNEL: M. J. Copeland, T. L. Bolton

DATE OF
BEGINNING: April, 1958

DATE OF
COMPLETION:
Research: September, 1958
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS% None

PUBLICATIONS
OUTSTANDING: Bulletin - Eurypterida and Phyllocarida, submitted

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 151. Preparation of 4 mile aeromagnetic composites

LOCATION: Ottawa

OBJECTIVE: To publish 4 mile aeromagnetic composite maps for all areas completely covered by surveys. Prepare marginal notes to contain geological map references and notes on a general interpretation of the magnetic data

PERSONNEL: A. S. MacLaren

DATE OF
BEGINNING: 1958

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: Continuing

PUBLICATIONS: Map 1073 A
Snowbird Lake, N.W.T.

PUBLICATIONS
OUTSTANDING: 4 mile aeromagnetic composites

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 152. Aeromagnetic interpretation, Meadow Lake area, Saskatchewan

LOCATION: Vancouver

OBJECTIVE: To produce a basement topographical map and to infer basement structure and lithology from aeromagnetic data by depth calculations on basement anomalies and extrapolating known geology from adjacent shield area

PERSONNEL: D. H. Hall (at U.B.C.)

DATE OF
BEGINNING: May, 1958

DATE OF
COMPLETION:
Research: September, 1958
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None

Completed

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 153. Lexicon of Stratigraphic Names used
in Canada

LOCATION: Ottawa

OBJECTIVE: To prepare the above Lexicon

PERSONNEL: T.E. Bolton, assisted by Miss F.J.E. Wagner
(C.H. Stockwell in nominal charge and liason
with G.S.C. Committee on Stratigraphic
Nomenclature)

DATE OF
BEGINNING: April, 1958

DATE OF
COMPLETION:
Research: 1960(?)
Prelim. Pubs: --
Final Pubs: 1960(?)

PUBLICATIONS: Nil

PUBLICATIONS
OUTSTANDING: Lexicon to be published by G.S.C.

THE HISTORY OF THE
REPUBLIC OF THE UNITED STATES

OF THE UNITED STATES OF AMERICA
FROM THE FOUNDATION OF THE COLONIES TO THE PRESENT

BY
JAMES M. SMITH

NEW YORK: THE UNIVERSITY PRESS
1912

THE HISTORY OF THE
REPUBLIC OF THE UNITED STATES
FROM THE FOUNDATION OF THE COLONIES TO THE PRESENT

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1912

THE HISTORY OF THE
REPUBLIC OF THE UNITED STATES
FROM THE FOUNDATION OF THE COLONIES TO THE PRESENT

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 154. Tectonic Map of Canada

LOCATION: Ottawa

OBJECTIVE: To prepare the above map

PERSONNEL: C.H. Stockwell, Chairman of Tectonic Map
Committee, and officers of Geological Survey

DATE OF
BEGINNING: May, 1958

DATE OF
COMPLETION:
Research: 1960(?)
Prelim. Pubs: --
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS

OUTSTANDING: Tectonic Map of Canada to be published by G.S.C.
Tectonic Map of Canada as part of World Tectonic
map to be published by International Geological
Congress. Possibly Tectonic Maps of certain
provinces

1948

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 155. Logging bedrock cores of the Ottawa area

LOCATION: Ottawa

OBJECTIVE: To aid a ground-water survey being conducted by the Post-Precambrian Division (G.S. 58-37. Ground-water survey Ottawa - Hull region)

PERSONNEL: B.A. Liberty and B.V. Sanford

DATE OF
BEGINNING: July, 1958

DATE OF
COMPLETION:
Research: 1959
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS ,
OUTSTANDING: None. Data to be incorporated in publications arising from G.S. 58-37

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF THE HISTORY OF ARTS AND ARCHITECTURE

RESEARCH REPORT

THE HISTORY OF ARTS AND ARCHITECTURE

RESEARCH REPORT

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 156. Study of core samples from the Ontario Hydro Generating Station site at Hamilton, Ontario

LOCATION: Ottawa

OBJECTIVE: By the applications of the principles of Pleistocene Geology, to advise Ontario Hydro concerning geological features that might affect their site investigations.

PERSONNEL: J. Terasmae

DATE OF BEGINNING: July, 1958

Date of Completion:
Research: 1958
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS

OUTSTANDING: A report to Ontario Hydro; possibly also a paper in a scientific journal or elsewhere concerning the geological results of the investigation

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P C

PROJECT: O. P. 157.

LOCATION: Ottawa

OBJECTIVE: A classified project

PERSONNEL:

DATE OF
BEGINNING: April, 1958

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None

THE UNIVERSITY OF CHICAGO

Department of Chemistry
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 Telex: 251131
 Fax: (312) 770-3100

Website: <http://www.uchicago.edu>

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 158. Evaluation of aeroradiometric surveying
as an aid to geological mapping.

LOCATION: Ottawa

OBJECTIVE: To evaluate the possibility of using aeroradiometric
data as an aid to geological mapping and petrogenetic
analysis

PERSONNEL: A.F. Gregory

DATE OF
BEGINNING: September, 1958

DATE OF
COMPLETION:
Research: 1958
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Bulletin

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 159. Sub-surface studies of each of the Palaeozoic systems of southwestern Ontario (Cambrian, Ordovician, Silurian and Devonian)

LOCATION: Ottawa

OBJECTIVE: By the study of samples and data obtained from wells drilled for oil and gas, to describe and interpret the geological features of the formations of each system, and to assess their economic potentialities

PERSONNEL: B.V. Sanford, and R.G. Quillian (resigned)

DATE OF
BEGINNING: September, 1958

DATE OF
COMPLETION:
Research: 1961(?)
Prelim. Pubs: 1958(?)
Final Pubs: --

PUBLICATIONS: Paper 58-12

PUBLICATIONS
OUTSTANDING: A Geological Survey Preliminary Report on each of the above systems; the matter of a consolidated or final report to be considered later.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 160. Memoir 74 (Johnston, R.R.A.; A List of Canadian Mineral Occurrences; Geol. Surv. Canada Memoir 74 (1915))

LOCATION: Ottawa

OBJECTIVE: To compile and publish an up-to-date list of Canadian mineral occurrences; including all available analytical data

PERSONNEL: R. J. Traill

DATE OF
BEGINNING: October, 1958

DATE OF
COMPLETION:
Research: 1960
Prelim. Pubs: --
Final Pubs: 1960 and later

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: A Geological Survey Memoir, followed by "Paper Series" supplements as and when appropriate

1. The purpose of this document is to provide information on the status of the project. It is intended for the use of the project manager and the project sponsor.

2. The project is currently in the planning phase.

3. The project is currently in the execution phase. The project manager is responsible for the overall management of the project. The project sponsor is responsible for providing the necessary resources and support.

4. The project is currently in the monitoring phase.



5. The project is currently in the closing phase. The project manager is responsible for the overall management of the project. The project sponsor is responsible for providing the necessary resources and support.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 161. Geological compilation, Fosterville-
Napadogan area, New Brunswick

LOCATION: Ottawa

OBJECTIVE: To compile, for publication on a scale of one inch
to two miles, the geology of the following 1-mile
map-areas: 21 G/13, 14, 15 W $\frac{1}{2}$; 21 J/2 W $\frac{1}{2}$, 3, 4,
6 and 7

PERSONNEL: F.D. Anderson and W.H. Poole

DATE OF
BEGINNING: October, 1958

DATE OF
COMPLETION:
Research: 1959
Prelim. Pubs 1959
Final Pubs: --

PUBLICATIONS: Map 37, 1959

PUBLICATIONS
OUTSTANDING --

Completed

THE HISTORY OF THE
REPUBLIC OF THE UNITED STATES

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 162. Geological map of Canada

LOCATION: Ottawa

OBJECTIVE: To prepare a revised geological map of Canada as a contribution to the world geological map being prepared under the auspices of the International Geological Congress

PERSONNEL: C.H. Stockwell

DATE OF
BEGINNING: October, 1958

DATE OF
COMPLETION:
Research: 1960
Prelim. Pubs: --
Final Pubs: 1960(?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Results to be incorporated in a geological map of the world to be published by the International Geological Congress

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin, G

PROJECT: O. P. 163. Geological Survey Booklet

LOCATION: Ottawa

OBJECTIVE: In connection with the forthcoming official opening of the Geological Survey Building, to prepare an article describing the Geological Survey of Canada, interpreting its history, functions, services, and contributions to the mining industry, the geology of Canada, and to science; and to incorporate this in an appropriate booklet for presentation at the opening ceremony

PERSONNEL: A.S. MacLaren, G.S. Daughtry and L.W. Williams

DATE OF
BEGINNING: November, 1958

DATE OF
COMPLETION:
Research: 1959
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: A presentation booklet, and an article in the Canadian Mining Journal

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 164. Ground-water lectures

LOCATION: Ottawa

OBJECTIVE: To provide on-job training for ground-water recruits by a series of lectures delivered mainly by Geological Survey staff, but in part by outside technologists.

PERSONNEL: V.K. Prest, E.C. Halstead, E.I.K. Pollitt, E. Hall, N.R. Gadd, A.M. Stalker, L. Brandon, J.G. Fyles, E.B. Owen, and outside contributors

DATE OF BEGINNING: November, 1958

DATE OF COMPLETION:
Research: January, 1959
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None; instead a series of one-hour lectures

COMPLETED

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 435

PHYSICS 435: QUANTUM MECHANICS

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 165. Royal Commission on Springhill Mine Disaster

LOCATION: Ottawa, and Springhill, N. S.

OBJECTIVE: At the request of the Deputy Minister of Mines, Nova Scotia, and of the Royal Commission on the Springhill Mine disaster, to prepare a Brief dealing with the stratigraphy, structure, and other geological features of the No. 2 mine at Springhill, Nova Scotia, and to appear before the Commission in Springhill on 26 January, 1959 to explain the contents of the Brief

PERSONNEL: D.K. Norris, M.J. Copeland

DATE OF BEGINNING: 5 January, 1959

DATE OF COMPLETION:

Research: January, 1959

Prelim. Pubs: --

Final Pubs: --

PUBLICATIONS: Report - Memo to the Royal Commission Springhill Disaster, 1959. prepared

PUBLICATIONS OUTSTANDING: None

Completed

1. The first part of the document discusses the general situation of the country and the role of the government.

2. The second part of the document discusses the economic situation and the role of the private sector.

3. The third part of the document discusses the social situation and the role of the state in providing social services.

4. The fourth part of the document discusses the political situation and the role of the political parties.

5. The fifth part of the document discusses the international situation and the role of the country in the world.

6. The sixth part of the document discusses the future of the country and the role of the government.

7. The seventh part of the document discusses the role of the people in the development of the country.

8. The eighth part of the document discusses the role of the media in the development of the country.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 166. Gamma Ray Spectrometer Studies

LOCATION: Ottawa

OBJECTIVE: Previous work established that distinct contrasts in gamma ray spectra may exist between various lithologic sources. Proposed research includes a laboratory study of thick source emission spectra to be followed, if feasible, by in situ measurements on rocks. Continuing research would investigate (1) the degradation of energy spectra with increasing air distance, and (2) the significance of diurnal variations in the gamma field of the earth.

These data will allow evaluation of a potential technique for aerial mapping of geology in which radioactive contrasts exist. Suitable in situ measurements would be useful in stratigraphic and petrogenic correlations

PERSONNEL: A.F. Gregory

DATE OF
BEGINNING: January, 1959

DATE OF
COMPLETION:
Research: 1959(?), or continuing
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: As results warrant, Bulletin submitted

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

RESEARCH REPORT NO. 100

1955

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1955

RESEARCH REPORT NO. 100
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF CHICAGO
1955

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RESEARCH REPORT NO. 100
DEPARTMENT OF CHEMISTRY
UNIVERSITY OF CHICAGO
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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 167. Interpretation of Geophysical Data
from Operation Franklin

LOCATION: Ottawa

OBJECTIVE: To complete the interpretation of magnetic and
radiometric profiles from the aerogeophysical
traverses of Operation Franklin. These data were
previously assembled in preparation for publication
by the late Mr. D.S.L. MacCallum. Interpretative
notes and an index map will be completed also

PERSONNEL: A.F. Gregory and Miss M.E. Bower

DATE OF
BEGINNING: January, 1959

DATE OF
COMPLETION:
Research: 1959
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Preliminary Paper submitted

Journal of the American Medical Association
(Continued from page 1000)

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 168. Methods of Study of Submarine Geology

LOCATION: Ottawa

OBJECTIVE: It is proposed to undertake a review of the literature pertaining to submarine geological investigations, and to contact various institutions and individuals working in this field, with a view to determining the scope of the subject and the need for such work in Canada, with particular regard to the feasibility of including such studies in the Polar Continental Shelf Project. Various types of special equipment will be investigated, and, if it is practical, a recommended program of studies will be drawn up.
The collections and data obtained by the 1959 field party of the Polar Continental Shelf Project will be examined, and this information will be used in planning the field studies for 1960 and subsequent years

PERSONNEL: B.R. Pelletier

DATE OF
BEGINNING: January, 1959

DATE OF
COMPLETION:
Research: 1960
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None anticipated. Office reports will be prepared as and when required for Geological Survey of Canada and the Polar Continental Shelf Project

Journal of the
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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 169. Placer Index, Yukon

LOCATION: Ottawa

OBJECTIVE: To compile, in a card index or possibly by punch card system, placer data from field notebooks. A preliminary phase of contemplated Operation Klondike

PERSONNEL: H. S. Bostock

DATE OF
BEGINNING: February, 1959

DATE OF
COMPLETION:
Research: April, 1959
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: None contemplated at present

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C
F S G

PROJECT: O. P. 170. Petrographic examination of samples dredged from Saint John Harbour, New Brunswick and from lower reaches of St. John River.

LOCATION: Ottawa

OBJECTIVE: To determine the sources of sediments causing silting in Saint John Harbour by the identification and comparison of heavy mineral suites found in the harbour sediments with those of the sediments from St. John River

PERSONNEL: H.A. Lee and F.J.E. Wagner

DATE OF BEGINNING: February, 1959

DATE OF COMPLETION: Research: March, 1959
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: Office report to National Research Council

PUBLICATIONS OUTSTANDING: None

Completed

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 171. Ordovician Ostracoda, Lake Temiskaming,
Ontario

LOCATION: Ottawa

OBJECTIVE: A description of new ostracods from the above area,
and of the strata with which they are associated

PERSONNEL: M. J. Copeland

DATE OF
BEGINNING: March, 1959

DATE OF
COMPLETION:
Research: April, 1959
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: A Geological Survey Bulletin

THE UNIVERSITY OF CHICAGO
(OFFICE OF THE DEAN)

PROFESSOR OF MATHEMATICS, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

CHICAGO, ILLINOIS

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CHICAGO, ILLINOIS

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

P P C

PROJECT: O. P. 172. Physiography of Canadian Cordillera

LOCATION: Ottawa

OBJECTIVE: To revise Memoir 247, and to extend its scope so as to describe the physiography of the entire Canadian cordillera

PERSONNEL: H. S. Bostock

DATE OF
BEGINNING: April, 1959

DATE OF
COMPLETION:
Research: --
Prelim. Pubs: --
Final Pubs: 1961

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: A Geological Survey memoir

THE HISTORY OF THE
ROYAL SOCIETY OF LONDON

By JOHN VAUGHAN, Esq. F.R.S.

Printed by R. and J. DODD, in Pall Mall.

1790.

THE HISTORY OF THE

ROYAL SOCIETY OF LONDON

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1790.

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

F S G

PROJECT: O. P. 173. (A) Mississippian and (B)
Pennsylvanian floras of the Maritime Provinces

LOCATION: Ottawa

OBJECTIVE: To present palaeontological evidence for correlation,
structural interpretation, and history of
Carboniferous coal-bearing and petroleum-bearing
formations or groups in the Maritime Provinces.
This will involve an examination of all relevant
fossil material in Geological Survey collections,
dating back to those of Sir Wm. Logan

PERSONNEL: W.A. Bell

DATE OF
BEGINNING: August, 1958

DATE OF
COMPLETION:
Research: --
Prelim. Pubs: --
Final Pubs: 1959, 1960

PUBLICATIONS: None

PUBLICATIONS

OUTSTANDING: Memoir - Mississippian - Horton Group of Type
Windsor - Horton District, N. S., submitted

THE STATE OF TEXAS
COUNTY OF DALLAS

I, the undersigned, Judge of the County Court of the County of Dallas, State of Texas, do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears in the records of the County Court of the County of Dallas, State of Texas.

ATTEST:

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 174. Preparation of Mineralogical Abstracts

LOCATION: Ottawa

OBJECTIVE: Preparation of abstracts of mineralogical data included in recent Geological Survey of Canada publications for inclusion in Mineralogical Abstracts published jointly by the Mineralogical Society of Great Britain and the Mineralogical Society of America.

PERSONNEL: R. J. Traill and S. C. Robinson

DATE OF
BEGINNING: May, 1959

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: --
Final Pubs: (?)

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Contributions to Mineralogical Abstracts

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 175. Field and laboratory methods used by the Geological Survey of Canada in geochemical surveys

LOCATION: Ottawa

OBJECTIVE: To compile a series of papers describing in detail the analytical procedures, chemical and equipment, used by the Geochemical Section of the Geological Survey for determining trace amounts of various metals in rock, sediment, and soil samples

PERSONNEL: M. A. Gilbert

DATE OF
BEGINNING: 1958

DATE OF
COMPLETION:
Research: Continuing
Prelim. Pubs: 1959(?)
Final Pubs: --

PUBLICATIONS: Paper 59-3

PUBLICATIONS
OUTSTANDING: Paper Series reports

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 176. Geophysical interpretation of the magnetic anomaly at Marmora, Ontario

LOCATION: Ottawa

OBJECTIVE: Compilation of Marmora aeromagnetic survey, and a geophysical interpretation of the results

PERSONNEL: M. E. Bower

DATE OF BEGINNING: 1951

DATE OF COMPLETION:

Research: --

Prelim. Pubs: --

Final Pubs: May, 1959

PUBLICATIONS: Paper 59-4

PUBLICATIONS
OUTSTANDING: None

Completed

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

REPORT OF THE COMMITTEE ON THE REVISION OF THE CURRICULUM
OF THE DEPARTMENT OF CHEMISTRY

1954-55

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

1954-55

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
1954-55

1954-55

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 177. Aeromagnetic Profile across Hudson Bay

LOCATION: Ottawa

OBJECTIVE: Compilation of aeromagnetic flight across Hudson Bay, and a geophysical interpretation of the results

PERSONNEL: M. E. Bower

DATE OF
BEGINNING: July, 1957

DATE OF
COMPLETION:
Research: --
Prelim. Pubs: --
Final Pubs: 1959

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: A Geological Survey Paper

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO LIBRARY

1950

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1950

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

Admin

PROJECT: O. P. 178. Index of unpublished Geological Survey of Canada Manuscripts

LOCATION: Ottawa

OBJECTIVE: To catalogue and index all items in the Geological Survey file of unpublished manuscripts according to the National Topographic System

PERSONNEL: A.G. Johnston

DATE OF BEGINNING: May, 1959

DATE OF COMPLETION:

Research: Continuing

Prelim. Pubs: 1959

Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS OUTSTANDING: A mimeographed catalogue and index to be prepared from time to time as appropriate, and for the time being to be prepared for internal distribution only

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 179. Double variation apparatus

LOCATION: Ottawa

OBJECTIVE: To assemble instruments on hand as a double variation apparatus, calibrate the instrument, prepare graphs to permit routine identification of silicate minerals

PERSONNEL: K. R. Dawson

DATE OF
BEGINNING: June, 1959

DATE OF
COMPLETION:
Research: September, 1960
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Paper in scientific journal

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS

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GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

M

PROJECT: O. P. 180. Copper Swamp, Sackville, N.B.

LOCATION: Ottawa

OBJECTIVE: To describe the occurrence and study the mechanism by which the copper is concentrated

PERSONNEL: R. H. C. Holman

DATE OF
BEGINNING: 1956

DATE OF
COMPLETION:
Research: 1959
Prelim. Pubs: 1960
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS
OUTSTANDING: Preliminary Paper

GEOLOGICAL SURVEY OF CANADA
(Office and Laboratory Project)

G

PROJECT: O. P. 181. Nuclear Magnetometer, Direct Reading Type

LOCATION: Ottawa

OBJECTIVE: To build four Direct Reading (in gamma) Nuclear Magnetometers for:-
1. Aircraft (one) to replace the ASQ-3A Magnetometer,
2. Aircraft (one) light-weight, low power consumption,
3. Ship (two) to be used on Hydrographic ships

PERSONNEL: L.S. Collett, S. Washkurak, H. Knapp, P. Sawatzky

DATE OF BEGINNING: June, 1959

DATE OF COMPLETION:
Research: May, 1960
Prelim. Pubs: --
Final Pubs: --

PUBLICATIONS: None

PUBLICATIONS OUTSTANDING: Manual to be written describing the operating principles

