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EIGHTH ANNUAL REPORT
OF THE
Department of
Mines and Minerals
OF THE
PROVINCE OF ALBERTA
FOR THE
Fiscal Year Ended March 31st
1957

EDMONTON

PRINTED BY L. S. WALL, QUEEN'S PRINTER

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To the Honourable J. J. Bowlen,
Lieutenant Governor of the Province of Alberta.

SIR:

I have the honour to submit the Report of the Department of Mines and Minerals for the fiscal year ended March 31st, 1957.

I have the honour to be, Sir,

Your obedient servant,

ERNEST C. MANNING,
Minister of Mines and Minerals.

Edmonton, November 1st, 1957.

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CHIEF OFFICERS
DEPARTMENT OF MINES AND MINERALS
MARCH 31st, 1957

Hon. Ernest C. Manning	<i>Minister</i>
H. H. Somerville	<i>Deputy Minister</i>
J. B. Corbet	<i>Solicitor</i>
C. W. Jackman	<i>Statistician</i>
W. E. Shillabeer	<i>Administrative Accountant and Personnel Officer</i>

MINERAL RIGHTS DIVISION

J. W. Patrick	<i>Director</i>
R. A. Seaton	<i>Assistant Director</i>
D. F. Morrison	<i>Supervisor of Leases and Mining Recorder, Edmonton District</i>
D. C. MacMillan	<i>Mining Recorder, Calgary District</i>
A. E. Kynnersley	<i>Supervisor of Revenue</i>

MINES DIVISION

J. A. Dutton	<i>Director</i>
J. Horne	<i>Assistant Director</i>

MINERAL TAXATION DIVISION

V. L. Scott	<i>Superintendent of Mineral Tax</i>
J. A. Savage	<i>Assistant Superintendent of Mineral Tax</i>
I. M. Harrington	<i>Assessor, Southern District</i>
W. McGeachie	<i>Assessor, Northern District</i>

TECHNICAL DIVISION

J. M. Novak	<i>Superintendent</i>
E. G. Staniforth	<i>Assistant Superintendent</i>

GEOLOGICAL DIVISION

J. R. Pow	<i>Chief Geologist</i>
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Eighth Annual Report

of the

Department of Mines and Minerals

HONOURABLE ERNEST C. MANNING,
Minister of Mines and Minerals,
Edmonton, Alberta.

SIR:

I have the honour to present the Annual Report of the Department of Mines and Minerals for the fiscal year ending March 31st, 1957.

The near east crisis and the resultant closing of the Suez Canal focused attention on the growing international importance of Alberta's reserves of crude oil. Production reached a record rate in December and January, as Alberta production was used to supply west coast markets cut off from usual sources of supply by the reallocation of other Western Hemisphere crude to meet the European shortage.

Oil wells were completed at a record rate in the summer of 1956 as operators developed a large number of Crown Reserve parcels in the Pembina field. By the end of the Calendar year 1956 there were 7,390 wells capable of producing oil in the Province.

Early in 1957 an exploratory well in the Swan Hills north-east of Whitecourt promised commercial production of light crude oil from the Slave Point Formation, a limestone of Devonian age that had not previously been considered a potential oil reservoir.

Revenues continued to show an increase; surplus on income account was \$132,532,617.52, compared with \$127,010,815.27 at the end of the previous fiscal year.

A natural gas pipeline was built from the Alexandria field to the power plant at Wabamun and extended to Hinton with service for intermediate communities. Another line connects the Medicine Hat fertilizer plant with the Etzikom natural gas field.

Legislation

The Oil and Gas Conservation Act was passed repealing and replacing The Oil and Gas Resources Conservation Act, 1950, dealing with the same subject. The major change incorporated in

the new Act is Part VIII dealing with pooling and unit operations. In this Part, sections 75 to 82 permit the Oil and Gas Conservation Board to order the compulsory unit operation of a field. These sections will come into force upon a date to be fixed by proclamation by the Lieutenant Governor in Council.

By amendment, The Pipe Line Act was brought under the administration of the Minister of Mines and Minerals. Other amendments to this Act create a distinction between a "gas line" and an "oil line" and add two new classifications of pipe lines, a "gathering line" and a "service line". The two latter types may now be constructed without a permit. Another amendment gives the Minister the power to exempt certain types of pipe lines from the provisions of the Act.

The Mines and Minerals Act was amended to clarify the definition of "bituminous sands". A new Part VIII replacing the old Part deals with the registration of transfers and documents and provides for the establishment of a tariff of fees for the registration of transfers. Section 50 of the Act was struck out and replaced by a new section prohibiting a person under the age of twenty-one years from acquiring an agreement from the Crown. A new section 267 provides for the determination of the rate of royalty payable to the Crown when Crown petroleum or natural gas is included in a unit operation.

The Mineral Taxation Act was amended in order to clarify certain definitions and to facilitate the administration of the Act. Other amendments exempt cities, towns or villages from taxation under section 4; bring the procedure relating to cancellation of titles in line with The Tax Recovery Act and require the Superintendent to send notices of unpaid taxes to every person having a recorded interest in a mineral or minerals affected by the tax.

The Right of Entry Arbitration Act was amended chiefly to improve the procedure for making application to the Board and to clarify the section dealing with immediate right of entry. The section dealing with right of entry required for conservation purposes was clarified and the Board now has the power to partially terminate the right of entry granted by it. New Rules of Procedure and Practice were made by the Board in line with the amendments made to the Act.

A separate report is issued yearly by the Mines Division and may be obtained from the Mines Division of this Department in the Natural Resources Building, Edmonton, Alberta.

Detailed reports of the other divisions follow.

All of which is respectfully submitted.

H. H. SOMERVILLE,

Deputy Minister.

November 1, 1957.

Mineral Rights Administration

Report of Director of Mineral Rights

J. W. PATRICK

The eighth year of administration by the Department of Mines and Minerals was one of continuing progress.

Footage drilled for petroleum and natural gas during 1956 was 10,093,579 feet. This was an increase of 1,649,001 feet from 1955. The production of crude oil increased to 143,909,641 barrels exceeding the production of 1955 by 30,874,595 barrels. The number of producing wells increased from 6,138 to 7,390 and were capable of maintaining an average daily rate of production of 746,000 barrels at December 31, 1956, under good production practice in accordance with sound engineering and economic principles. Because of inadequate markets the average daily oil produced during the year was only 393,196 barrels, an increase of 27 percent over the previous year. There were 1,914 licences issued to drill for oil or gas during 1956 compared with 1,730 licences during the previous year.

Production of coal in Alberta in 1956 decreased by 126,939 tons. This decline in coal production is again chiefly attributable to the loss of markets by the increase in the use of alternate fuels.

The production and value of Alberta's chief minerals for 1956 were crude oil, 143,909,641 barrels valued at \$355,173,842.00; coal, 4,329,639 tons valued at \$23,283,966.00; natural gas,* 127,955,200 Mcf., valued at \$6,397,760.00; and salt, 36,901 tons valued at \$1,285,732.00.

Mineral rights, solid, liquid and gaseous, the property of the Crown in the right of the Province, are not sold, but are disposed of by lease, reservation, licence, permit or other agreement for limited periods of time. Revenue is obtained from fees, rentals, bonuses, royalties, sales of leases and miscellaneous charges. During the fiscal year these sources provided a revenue of \$132,663,401.89 being an increase of \$5,715,604.52 from the previous year. Sales of leases and reservations in Crown Reserves were held on three occasions in the fiscal year and the revenue from this source decreased five million dollars.

* Includes only marketed and consumed gas.

The Province is divided into two mining districts; the Edmonton district comprises that portion of the Province lying to the north of the north boundary of Township 42 and the balance of the Province lying to the south is contained in the Calgary district.

During the year 3,987 applications for mineral rights were filed at the office of the Mining Recorders in Edmonton and Calgary and at the office of the Department in Edmonton. Many inquiries were made as to the availability of mineral rights,

mostly for petroleum and natural gas leases and reservations by personal application and by correspondence.

A tabulation of leases together with statements of business transacted follow.

MINERAL RIGHTS LEASES

Type of Lease	Active at April 1, 1956	Issued	Reinstated	Divided	Cancelled	Renewed	Active at March 31, 1957
Petroleum and Natural Gas	23,441	3,092	60	157	1,353	18	25,379
Natural Gas	233	32	.....	8	.....	.....	273
Coal	527	21	.....	.....	23	1	524
Road Allowance Coal	139	22	.....	.....	4	9	148
Quarrying	40	21	.....	.....	4	.....	57
Salt	2	.....	.....	.....	.....	.....	2
Bituminous Sands	9	2	.....	.....	.....	.....	11
Miscellaneous	4	.....	.....	.....	.....	.....	4
TOTAL	24,395	3,190	60	165	1,384	28	26,398

ACREAGE CONTAINED IN ABOVE LEASES

Type of Lease	Active at April 1, 1956	Issued	Reinstated	Cancelled	Renewed	Active at March 31, 1957
Petroleum and Natural Gas	17,825,547	3,673,913	19,226	1,049,240	1,409	20,468,037
Natural Gas	1,191,648	135,096	.....	2,579	.....	1,324,165
Coal	143,695	12,406	.....	2,648	120	153,333
Quarrying	5,806	3,016	.....	1,190	.....	7,632
Salt	1,204	.....	.....	.....	.....	1,204
Bituminous Sands	43,956	54,049	.....	.....	.....	98,005
Miscellaneous	3,614	.....	.....	.....	.....	3,614
TOTAL	19,215,470	3,878,480	19,226	1,055,657	1,529	22,055,990

STATEMENT OF BUSINESS TRANSCATED, 1956-1957

PETROLEUM AND NATURAL GAS

	Number	Acres
Leases issued	3,092	3,673,913
Leases cancelled and relinquished	1,353	1,049,240
Leases reinstated	60	19,226
Prospecting reservations granted	223	9,820,820
Prospecting reservations terminated	258	12,675,478
Crown reserve drilling reservations granted	82	556,917
Crown reserve drilling reservations terminated	73	473,434
Natural gas licences issued	15	272,042
Natural gas licences terminated	17	286,708
Crown reserve natural gas licences issued	10	189,600
Crown reserve natural gas licences terminated	10	245,348
Natural gas leases issued	32	135,096
Natural gas leases cancelled and relinquished .....	.....	2,579
Fees, rentals, penalties and bonuses collected	\$ 25,819,815.31	
Royalties collected	37,292,514.31	
Crown reserve sales	69,050,860.49	
TOTAL	\$132,163,190.11	

COAL

	Number	Acres
Leases issued	21	12,406
Leases cancelled and relinquished	23	2,648
Road Allowance Leases—		
Leases issued	22	
Leases cancelled and relinquished	4	
Fees and rentals collected	\$ 68,286.97	
Royalties collected	165,134.62	
TOTAL	\$ 233,421.59	

QUARRYING

	Number	Acres
Quarrying leases issued	21	3,016
Quarrying leases cancelled and relinquished	4	1,190
Fees and rentals collected	\$ 213.25	
Royalties collected	53,995.93	
TOTAL	\$ 54,209.18	

MISCELLANEOUS

	Number
Bituminous sands leases issued	2
Bituminous sands permits issued	20
Bituminous sands permits terminated	2
Bituminous sands permits renewed	2
Quartz	
Claims recorded	37
Certificates of Work issued	68
Assignments recorded	2
Placer	
Claims recorded	1
Renewals issued	103
Iron Prospecting Permits issued	7
Iron Prospecting Permits cancelled	1
Geophysical licences issued	178
Permits to operate geophysical equipment issued	18
Permits to operate geophysical equipment renewed	81
Mineral sales	1
Well licences issued	1,953
Fees, rentals, royalties and miscellaneous charges	\$ 212,581.01

PETROLEUM AND NATURAL GAS

Leases.—During the year 3,092 petroleum and natural gas leases were granted covering 3,673,913 acres and at the close of the fiscal year a total of 25,379 leases were in existence comprising an area of 20,468,037 acres.

The revenue received from fees amounted to \$35,260.00. The revenue from lease rentals was \$17,275,809.50 and the revenue from bonuses accepted by the Mining Recorders at sales of petroleum and natural gas leases by tender amounted to \$334,221.91. The revenue from penalties for the deferment of drilling on petroleum and natural gas leases amounted to \$3,000.00.

Disposal of Crown Reserves.—Petroleum and natural gas rights comprised in Crown reserves may be disposed of by order of the Lieutenant Governor in Council and during the year 242 leases, 7 reservations, 82 Crown reserve drilling reservations and 10 Crown reserve natural gas licences were purchased and particulars of these Crown reserve purchases are included in this report. Particulars of Crown reserve fractional area leases purchased and Crown reserve natural gas leases purchased pursuant to Section 275a of The Mines and Minerals Act are also included.

DEPARTMENT OF MINES AND MINERALS

CROWN RESERVES PURCHASED IN
BATTLE AREA

Description	Offer Accepted From:	Cash	Purchase Price
S.W. ¼ 2-46-20-4	Tennessee Gas Transmission Company	\$	5,200.00
N.W. ¼ 14-46-20-4	Tennessee Gas Transmission Company		16,000.00
		\$	21,200.00

CROWN RESERVES PURCHASED IN
BENTLEY AREA

Description	Offer Accepted From:	Cash	Purchase Price
N. ½ 18-40- 1-5	Imperial Oil Limited	\$	20,313.47
		\$	20,313.47

CROWN RESERVES PURCHASED IN
BONNIE GLEN AREA

Description	Offer Accepted From:	Cash	Purchase Price
N.E. ¼ 20-47-27-4	Compagnie Française Des Petroles	\$	2,565,600.65
N.W. ¼ 29-47-27-4	Home Oil Company Limited		1,666,666.66
		\$	4,232,267.31

CROWN RESERVES PURCHASED IN
CESSFORD AREA

Description	Offer Accepted From:	Cash	Purchase Price
Sec. 24-24-13-4 (Except gas in Colorado and Blairmore zones)	Amurex Oil Company	\$	34,444.99
S. ½ 25-24-13-4 (Except gas in Colorado and Blairmore zones)	Amurex Oil Company		17,222.99
		\$	51,667.98

CROWN RESERVES PURCHASED IN
ERSKINE AREA

Description	Offer Accepted From:	Cash	Purchase Price
S.E. ¼ 6-39-20-4	Canadian Gulf Oil Company	\$	105,137.37
S.W. ¼ 6-39-20-4	Colorado Oil and Gas Ltd.		40,308.58
S. ½ 20-39-20-4	Colorado Oil and Gas Ltd.		39,308.58
W. ½ 30-39-20-4	Colorado Oil and Gas Ltd.		34,308.58
E. ½ 36-38-21-4	Colorado Oil and Gas Ltd.		116,308.58
W. ½ 36-38-21-4	Colorado Oil and Gas Ltd.		41,308.58
		\$	376,680.27

CROWN RESERVES PURCHASED IN
FAIRYDELL - BON ACCORD AREA

Description	Offer Accepted From:	Cash	Purchase Price
Sec. 4-58-24-4 (Except gas in Viking zone)	Union Oil Company of California	\$	19,220.00
		\$	19,220.00

CROWN RESERVES PURCHASED IN
FENN - BIG VALLEY AREA

Description	Offer Accepted From:	Cash	Purchase Price
S. ½ 18-36-19-4	Canadian Gulf Oil Company	\$	28,477.29
N.W. ¼ 22-35-20-4	Shell Oil Company		55,099.99
S.W. ¼ 22-35-20-4	Shell Oil Company		157,099.99
S.W. ¼ 36-36-20-4	The Petrol Oil & Gas Company, Limited, Canpet Exploration Ltd., Fargo Oils Ltd. and Carleton Oils Limited		86,500.00
S.W. ¼ 10-37-20-4	Imperial Oil Limited		87,426.87
		\$	414,604.14

CROWN RESERVES PURCHASED IN
HOMEGLEN - RIMBEY AREA

Description	Offer Accepted From:	Cash	Purchase Price
E. ½ 2-43- 2-5	Cree Oil of Canada Limited	\$	176,000.00
E. ½ 11-43- 2-5	Imperial Oil Limited		101,211.67
		\$	277,211.67

CROWN RESERVES PURCHASED IN JOARCAM AREA

Description	Offer Accepted From:	
L.S.'s 2, 6 & 7 of Sec. 1-50-22-4	Supertest Petroleum Corporation, Limited	\$ 75,310.00
		\$ 75,310.00

CROWN RESERVES PURCHASED IN JOFFRE AREA

Description	Offer Accepted From:	
S. ½	Canadian Pipelines & Petroleum Ltd.	\$ 57,800.00
S. ½	Canadian Pipelines & Petroleum Ltd.	115,600.00
N.W. ¼	Tidewater Oil Company	31,133.56
N.W. ¼	Carleton Oils Limited, Canpet Explorations Ltd. and Westbourne Oil Development Limited	28,000.00
N.E. ¼	Carleton Oils Limited, Canpet Exploration Ltd. and Westbourne Oil Development Limited	28,000.00
N. ½	West Canadian Petroleum Ltd.	130,600.00
S.W. ¼	Canadian Pipelines & Petroleum Ltd.	26,321.52
S.E. ¼	West Maygill Gas and Oil Limited	5,110.00
		\$ 422,565.08

CROWN RESERVES PURCHASED IN PEMBINA AREA

Description	Offer Accepted From:	Cash Purchase Price
N. ½	Imperial Oil Limited and Canadian Superior Oil of California, Ltd.	\$ 170,123.78
W. ½	Imperial Oil Limited and Canadian Superior Oil of California, Ltd.	198,123.78
W. ½	Imperial Oil Limited and Canadian Superior Oil of California, Ltd.	210,123.78
W. ½	Sinclair Canada Oil Company	611,211.00
W. ½	Sinclair Canada Oil Company	611,211.00
E. ½	Bailey Selburn Oil & Gas Ltd. and Crow's Nest Pass Coal Company Limited	686,856.75
W. ½	Bailey Selburn Oil & Gas Ltd. and Crow's Nest Pass Coal Company Limited	807,856.75
W. ½	Sinclair Canada Oil Company	732,211.00
N. ½	Murphy Corporation, Whitehall Canadian Oils Ltd. and Westbourne Oil Development Limited	380,666.99
S. ½	Luscar Coals Limited	330,011.00
S. ½	The Ohio Oil Company	718,311.00
S. ½	The Ohio Oil Company	724,911.00
N.W. ¼	Sun Oil Company	406,007.77
N. ½	Sun Oil Company	\$ 832,007.77
N. ½	Bailey Selburn Oil & Gas Ltd. and The Crow's Nest Pass Coal Company Limited	816,856.75
S. ½	Sinclair Canada Oil Company	561,211.00
S. ½	Phillips Petroleum Company	291,250.00
N.W. ¼	Home Oil Company Limited	140,566.66
W. ½	Carleton Oils Limited, Canpet Exploraton Ltd. and Westbourne Oil Development Limited	426,000.00
W. ½	Plymouth Oil Company	517,981.57
S. ½	Plymouth Oil Company	517,981.57
N. ½	Phillips Petroleum Company	291,250.00
N. ½	McCull-Fontenac Oil Company Limited	310,111.12
N. ½	Canadian Seaboard Oil Company	514,344.00
N. ½	Mobil Oil of Canada Ltd.	901,222.93
S. ½	The Ohio Oil Company	898,711.00
E. ½	Mobil Oil of Canada Ltd.	728,222.93
N. ½	Bailey Selburn Oil & Gas Ltd. and The Crow's Nest Pass Coal Company Limited	656,856.75
S.E. ¼	Canadian Seaboard Oil Company	370,268.00
S. ½	Carleton Oils Limited, Canpet Exploration Ltd. and Westbourne Oil Development Limited	655,000.00
E. ½	Canadian Gulf Oil Company	700,159.19
E. ½	Canadian Gulf Oil Company	625,161.79
E. ½	Canadian Gulf Oil Company	600,161.39
W. ½	Canadian Gulf Oil Company	520,162.29
N. ½	The British American Oil Company Limited	369,014.57
N. ½	Tennessee Gas Transmission Company	271,077.79
N. ½	Tennessee Gas Transmission Company	571,277.79
S.W. ¼	The California Standard Company	266,003.00
N. ½	The British American Oil Company Limited	560,014.57
N. ½	The California Standard Company	548,003.00
N. ½	The California Standard Company	450,003.00
N. ½	The California Standard Company	175,003.00
S.E. ¼	The California Standard Company	236,003.00
S.W. ¼	The California Standard Company	312,003.00
S. ½	The California Standard Company	312,003.00
N.E. ¼	The California Standard Company	156,003.00

**CROWN RESERVES PURCHASED IN
PEMBINA AREA (Continued)**

Description	Offer Accepted From:	Cash Purchase Price	
W. ½	28-48- 7-5	Alida Oil Company Limited	600,131.00
W. ½	33-48- 7-5	Sun Oil Company	677,675.77
N.E. ¼	33-48- 7-5	The Ohio Oil Company	307,080.00
S. ½	23-47- 8-5	The California Standard Company	611,003.00
S.W. ¼	34-48- 8-5	Murphy Corporation	251,666.99
S. ½	2-49- 8-5	The Ohio Oil Company	1,117,122.00
S. ½	3-49- 8-5	Mobil Oil of Canada Limited	750,117.97
N.W. ¼	3-49- 8-5	Mobil Oil of Canada Limited	450,117.97
W. ½	6-49- 8-5	McCull-Frontenac Oil Company Limited	340,000.00
N. ½	7-49- 8-5	The California Standard Company	528,003.00
S.W. ¼	7-49- 8-5	Murphy Corporation	226,666.99
W. ½	10-49- 8-5	The Ohio Oil Company	981,090.00
N. ½	13-49- 8-5	The California Standard Company	620,003.00
N. ½	14-49- 8-5	The California Standard Company	620,003.00
N.E. ¼	15-49- 8-5	The Ohio Oil Company	351,090.00
N. ½	27-48- 9-5	Phillips Petroleum Company	300,000.00
N. ½	28-49- 8-5	The California Standard Company	490,003.00
E. ½	32-47- 9-5	Northern Natural Gas Company	370,624.00
W. ½	33-47- 9-5	Northern Natural Gas Company	370,624.00
W. ½	17-48- 9-5	Hudson's Bay Oil and Gas Company Limited and Western Provinces Lands Ltd.	219,200.00
W. ½	18-48- 9-5	Hudson's Bay Oil and Gas Company Limited and Western Provinces Lands Ltd.	240,200.00
E. ½	18-48- 9-5	Hudson's Bay Oil and Gas Company Limited and Western Provinces Lands Ltd.	240,200.00
W. ½	4-49- 9-5	Northern Natural Gas Company	496,358.40
W. ½	5-49- 9-5	Northern Natural Gas Company	496,358.40
W. ½	6-49- 9-5	Imperial Oil Limited	352,515.26
E. ½	6-49- 9-5	Imperial Oil Limited	342,675.66
E. ½	8-49- 9-5	Hudson's Bay Oil and Gas Company Limited and Western Provinces Lands Ltd.	230,400.00
W. ½	13-48-10-5	Northern Natural Gas Company	370,624.00
E. ½	13-48-10-5	The Petrol Oil and Gas Company Limited, Canpet Exploration Ltd., Fargo Oils Ltd. and Carleton Oils Limited	369,000.00
E. ½	14-48-10-5	The Petrol Oil and Gas Company Limited, Canpet Exploration Ltd., Fargo Oils Ltd. and Carleton Oils Limited	369,000.00
E. ½	22-48-10-5	Sinclair Edmonton Oil Company	311,211.00
W. ½	23-48-10-5	The Petrol Oil and Gas Company Limited, Canpet Exploration Ltd., Fargo Oils Ltd. and Carleton Oils Limited	369,000.00
W. ½	26-48-10-5	Northern Natural Gas Company	501,817.60
E. ½	27-48-10-5	Whitehall Canadian Oils Ltd. and Westbourne Oil Development Limited	375,119.00
E. ½	34-48-10-5	Sinclair Canada Oil Company	326,211.00
W. ½	35-48-10-5	The Petrol Oil and Gas Company Limited, Canpet Exploration Ltd., Fargo Oils Ltd. and Carleton Oils Limited	474,000.00
E. ½	1-49-10-5	Cree Oil of Canada Limited	267,120.00
S.W. ¼	1-49-10-5	Northern Natural Gas Company	208,100.80
S.E. ¼	2-49-10-5	The Petrol Oil and Gas Company Limited, Canpet Exploration Ltd., Fargo Oils Ltd. and Carleton Oils Limited	206,000.00
S. ½	4-49-10-5	Sinclair Canada Oil Company	326,211.00
			<hr/>
			\$ 39,411,861.84

**CROWN RESERVES PURCHASED IN
STETTLER AREA**

Description	Offer Accepted From:	Cash Purchase Price	
E. ½	6-38-20-4	The British American Oil Company Limited	\$ 52,035.28
W. ½	6-38-20-4	The British American Oil Company Limited	38,012.89
E. ½	18-38-20-4	Tennessee Gas Transmission Company	11,177.79
			<hr/>
			\$ 101,225.96

**CROWN RESERVES PURCHASED IN
STURGEON LAKE SOUTH AREA**

Description	Offer Accepted From:	Cash Purchase Price	
N.W. ¼	31-68-21-5	Texaco Exploration Company	\$ 1,300,125.00
W. ½	6-69-21-5	Triad Oil Co. Ltd.	2,711,000.00
E. ½	26-68-22-5	Phillips Petroleum Company	800,000.00
S. ½	35-68-22-5	Shell Oil Company	1,188,299.97
N. ½	36-68-22-5	Shell Oil Company	1,364,303.99
N. ½	9-69-22-5	Amerada Petroleum Corporation	101,234.56
S. ½	7-69-21-5	Triad Oil Co. Ltd.	1,051,000.00
N. ½	24-68-22-5	Triad Oil Co. Ltd.	1,051,000.00
S. ½	21-69-22-5	Texaco Exploration Company	557,607.00
			<hr/>
			\$ 10,124,570.52

CROWN RESERVES PURCHASED IN
SUNDRE AREA

Description	Offer Accepted From:	
E. ½ 22-33- 5-5	Home Oil Company Limited	\$ 375,666.66
W. ¼ 22-33- 5-5	Colorado Oil and Gas Ltd.	81,308.58
S. ½ 16-34- 5-5	Cree Oil of Canada Limited	258,223.00
		<hr/>
		\$ 715,198.24

CROWN RESERVES PURCHASED ELSEWHERE IN
ALBERTA

Description	Offer Accepted From:	Cash Purchase Price
Sec. 6-20- 1-4	Griffith Annesley	\$ 6,996.00
S.W. ¼ & L.S.'s 2 and 7, 19-20- 1-4	Griffith Annesley	2,673.00
N.E. ¼ 24-20- 2-4	Griffith Annesley	1,782.00
S.W. ¼ 24-20- 2-4	Griffith Annesley	2,055.00
Sec. 17- 7- 8-4	Canadian Gulf Oil Company	6,741.79
S.W. ¼ 18-44-19-4	Bailey Selburn Oil and Gas Ltd. and Supertest Petroleum Corporation, Limited	3,678.85
S.E. ¼ 24-44-20-4	Bailey Selburn Oil and Gas Ltd. and Supertest Petroleum Corporation, Limited	2,873.85
Sec. 14-47-21-4	Great Plains Development Company of Canada Ltd.	10,701.00
W. ¼ 23-31-22-4 (Except gas in Basal Blairmore zone)	Sun Oil Company and D. D. Feldman	5,796.00
S.E. ¼ 27-31-22-4 (Except gas in Basal Blairmore zone)	Sun Oil Company and D. D. Feldman	2,898.00
E. ½ 34-31-22-4	Sun Oil Company and D. D. Feldman	9,016.00
S.W. ¼ 36-31-22-4	Sun Oil Company and D. D. Feldman	6,118.00
N.W. ¼ 1-32-22-4 (Except gas in Basal Blairmore zone)	Sun Oil Company and D. D. Feldman	4,880.00
W. ¼ 2-32-22-4	Sun Oil Company and D. D. Feldman	11,360.00
N.E. ¼ 6-51-22-4	Texaco Exploration Company	10,175.00
S.E. ¼ 7-51-22-4	Texaco Exploration Company	10,175.00
W. ¼ 4-38-24-4	Canadian Gulf Oil Company	65,276.89
S.E. ¼ 4-38-24-4	West Canadian Petroleums Ltd.	17,340.00
Sec. 36-41-24-4	Imperial Oil Limited	22,407.78
N.W. ¼ 36-34-25-4	Canadian Gulf Oil Company	6,153.69
Sec. 14-19-26-4	Honolulu Oil Corporation	16,000.00
N.E. ¼ 26-19-26-4	Imperial Oil Limited	\$ 3,483.28
S. ½ 34-19-26-4	Imperial Oil Limited	6,966.48
S.W. ¼ 20-35-26-4	Imperial Oil Limited	48,301.78
W. ½ 29-35-26-4	Imperial Oil Limited	104,325.78
L.S.'s 6, 7 and 8 25-53-26-4	Imperial Oil Limited	25,001.78
E. ½ 24-35-27-4	Imperial Oil Limited	96,001.78
Sec. 22- 4- 1-5	Shell Oil Company	36,977.89
Sec. 22-35- 4-5	Canadian Gulf Oil Company	36,327.87
Sec. 3-46- 4-5	L. P. Mann & Company Ltd.	13,574.40
Sec. 10-46- 4-5	L. P. Mann & Company Ltd.	13,574.40
N. ½ 18-35-13-4	The British American Oil Company, Ltd.	3,683.29
S.W. ¼ 18-35-13-4	The British American Oil Company, Ltd.	1,853.21
S.E. ¼ 29-35-13-4	The British American Oil Company, Ltd.	1,841.69
S.E. ¼ 6-44-19-4	The British American Oil Company, Ltd.	4,954.59
Sec. 34-41-19-4	The British American Oil Company, Ltd.	22,470.51
N.E. ¼ 26-37-24-4	West Canadian Petroleums Ltd.	21,042.12
N.E. ¼ 34-37-24-4	West Canadian Petroleums Ltd.	18,011.81
Sec. 16-34-25-4	Canadian Oil Companies, Ltd.	26,350.00
E. ½ 18-34-25-4	Honolulu Oil Corporation	18,022.40
N.E. ¼ 6-38-25-4	Canadian Chieftain Petroleums Ltd.	8,630.00
N.E. ¼ 6-38-25-4	West Maygill Gas and Oil Limited	8,500.00
E. ½ 30-53-25-4	Cree Oil of Canada Limited	16,320.00
N. ½ 2-20-26-4	Home Oil Company Limited	3,500.00
S. ½ 11-20-26-4	Home Oil Company Limited	3,500.00
W. ½ 18-36-26-4	Canadian Fina Oil Limited and Great Plains Development Company of Canada, Ltd.	6,720.00
N.W. ¼ 24-53-26-4	Imperial Oil Limited	36,155.55
E. ¼ 12-36-27-4	Canadian Fina. Oil Limited and Great Plains Development Company of Canada, Ltd.	10,240.00
S. ½ 14-36-27-4	Imperial Oil Limited	103,551.21
N.W. ¼ 32-47-27-4	Imperial Oil Limited	113,657.42
S.W. ¼ 32-47-27-4	Dome Exploration (Western) Limited	8,410.00
L.S.'s 4 & 5 of 48-27-4	Dome Exploration (Western) Limited and Imperial Oil Limited	12,097.42
S.E. ¼ 6-48-27-4	Imperial Oil Limited	24,097.41
N.E. ¼ 26-39-28-4	West Canadian Petroleums Ltd.	30,133.03
S.E. ¼ 34-39-28-4	West Canadian Petroleums Ltd.	15,341.55
Sec. 16-52- 2-5	Cree Oil of Canada Limited	12,900.00

CROWN RESERVES PURCHASED ELSEWHERE IN
ALBERTA (Continued)

Description	Offer Accepted From:	
S. ½	2-53- 3-5	Tennessee Gas Transmission Company
Sec.	34-30- 4-5	Texaco Exploration Company
Sec.	16-32- 4-5	Home Oil Company Limited
N. ½	22-41- 4-5	Canadian Oil Companies, Limited
N. ½	13-47- 4-5	Cree Oil of Canada Limited
N. ½	11-54- 7-5	L. B. Oils Ltd.
L.S. 5	12-54- 7-5	L. B. Oils Ltd.
S.W. ¼	14-54- 7-5	L. B. Oils Ltd.
S. ½	30-58-10-5	Tennessee Gas Transmission Company
W. ½	14-59-13-5	Tennessee Gas Transmission Company
N. ¼	9-85-21-5	Hudson's Bay Oil and Gas Company Limited, Union Oil Company of California and Royalite Oil Company, Limited
N. ½	10-85-21-5	Hudson's Bay Oil and Gas Company Limited, Union Oil Company of California and Royalite Oil Company, Limited
N.W. ¼	28-85-21-5	Hudson's Bay Oil and Gas Company Limited, Union Oil Company of California and Royalite Oil Company, Limited
N.E. ¼	29-85-21-5	Hudson's Bay Oil and Gas Company Limited, Union Oil Company of California and Royalite Oil Company, Limited
S. ½	29-85-21-5	Hudson's Bay Oil and Gas Company Limited, Union Oil Company of California and Royalite Oil Company, Limited
S.E. ¼	32-85-21-5	Hudson's Bay Oil and Gas Company Limited, Union Oil Company of California and Royalite Oil Company, Limited
S.W. ¼	33-85-21-5	Hudson's Bay Oil and Gas Company Limited, Union Oil Company of California and Royalite Oil Company, Limited
N. ½	34-88- 2-6	The British American Oil Company Limited
N. ½	35-88- 2-6	The British American Oil Company Limited
W. ½	7-20- 1-4	Griffith Annesley
W. ½	18-20- 1-4	Griffith Annesley
N. ½	16-42-13-4	Sharples Oil (Canada) Ltd.
Sec.	20-42-13-4	Triad Oil Co. Ltd.
S.E. ¼	27- 9-17-4	Majestic Mines, Limited
Sec.	24-30-21-4	The British American Oil Company, Limited
S. ½	35-34-21-4	Cree Oil of Canada Limited
S. ½	36-34-21-4	Cree Oil of Canada Limited
L.S.'s 7, 10 & 15 of 16-53-25-4		Dome Exploration (Western) Limited
N.W. ¼	16-53-25-4	Bailey Selburn Oil & Gas Ltd.
N.W. ¼	28-34-26-4	Shell Oil Company
S.E. ¼	28-34-26-4	The British American Oil Company Limited
Sec.	24-36-26-4	Sohio Petroleum Company
S. ½	23-48- 4-5	Medallion Petroleums Limited
N.W. ¼	23-48- 4-5	Tidewater Oil Company
W. ½	34-48- 4-5	Tidewater Oil Company
E. ½	1-43- 7-5	Amerada Petroleum Corporation
E. ½	12-43- 7-5	Amerada Petroleum Corporation
E. ½	13-43- 7-5	Amerada Petroleum Corporation
Sec.	1-83- 18-5	Canadian Seaboard Oil Company
E. ½	12-83-18-5	Canadian Seaboard Oil Company

\$ 2,580,621.29

**PETROLEUM AND NATURAL GAS RESERVATIONS PURCHASED IN
PROVINCIAL RESERVES**

Description	Offer Accepted From:	Cash Purchase Price
Comprising 44,357 acres in townships 41 and 42, range 7, west of 5th meridian and located in Alhambra Provincial Reserve.	Amerada Petroleum Corporation	\$ 1,103,633.33
Comprising 43,840 acres in townships 37 and 38, range 7, west of 5th meridian and located in Alhambra Provincial Reserve.	Imperial Oil Limited	768,734.45
Comprising 46,080 acres in townships 49 and 50, range 14, west of 5th meridian and located in Cynthia Provincial Reserve.	Imperial Oil Limited	233,412.76
Comprising 98,586 acres in townships 85, 86 and 87, ranges 10, 11, 12 and 13, west of the 6th meridian and located in Clear Hills Provincial Reserve.	Imperial Oil Limited	1,758,279.99
Comprising 99,107 acres in townships 87 and 88, ranges 10, 11, 12 and 13, west of the 6th meridian and located in Clear Hills Provincial Reserve.	Stanolind Oil and Gas Company	845,382.71
Comprising 84,480 acres in townships 90 and 91, ranges 10 and 11, west of the 6th meridian and located in Clear Hills Provincial Reserve.	Stanolind Oil and Gas Company	108,134.40
Comprising 96,025 acres in townships 90, 91 and 92, ranges 12 and 13, west of the 6th meridian and located in Clear Hills Provincial Reserve.	Shell Kootenay Exploration Limited	303,619.93
		<u>\$ 5,121,197.57</u>

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

Description	Offer Accepted From:	Cash Purchase Price
Located in township 31, range 3, west of the 4th meridian, comprising 4,171 acres; requiring the drilling of a well into the Wabamun Formation to acquire six quarter sections under petroleum and natural gas lease.	The British American Oil Company Limited	12,048.00
Located in Townships 42 and 43; ranges 3 and 4, west of the 4th meridian, comprising 4,061 acres; requiring the drilling of a well into the Ireton member of the Woodbend formation to acquire six quarter sections under petroleum and natural gas lease.	The British American Oil Company Limited	2,880.00
Located in Township 25, ranges 14 and 15, west of the 4th meridian, comprising 4,480 acres, requiring the drilling of a well into a zone of Mississippian age to acquire six quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited	7,033.60
Located in Township 46, ranges 21 and 22, west of the 4th meridian, comprising 4,783 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire six quarter sections under petroleum and natural gas lease.	Western Decalta Petroleum Limited	12,020.00
Located in Townships 44, 45 and 46, range 22, west of the 4th meridian, comprising 4,787 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire six quarter sections under petroleum and natural gas lease.	Western Decalta Petroleum Limited	4,823.00

CROWN RESERVE DRILLING RESERVATIONS PURCHASED
(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 29 and 30, ranges 24 and 25, west of the 4th meridian, comprising 5,586 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire nine quarter sections under petroleum and natural gas lease.	Canadian Oil Companies Limited	23,353.50
Located in Township 56, ranges 24 and 25, west of the 4th meridian, comprising 4,164 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire seven quarter sections under petroleum and natural gas lease.	Sharples Oil (Canada) Ltd.	15,081.78
Located in Townships 1 and 2, ranges 25 and 26, west of the 4th meridian, comprising 8,963 acres; requiring the drilling of a well into the Rundle group to acquire fourteen quarter sections under petroleum and natural gas lease.	Canadian Gulf Oil Company	14,587.69
Located in Townships 55 and 56, ranges 25 and 26, west of the 4th meridian, comprising 5,133 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire seven quarter sections under petroleum and natural gas lease.	Sharples Oil (Canada) Ltd.	60,123.45
Located in Townships 12 and 13, ranges 27 and 28, west of the 4th meridian, comprising 7,682 acres; requiring the drilling of a well into the Rundle group to acquire ten quarter sections under petroleum and natural gas lease.	Sinclair Canada Oil Company	34,040.50
Located in Townships 50 and 51, ranges 27 and 28, west of the 4th meridian, comprising 6,045 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire eight quarter sections under petroleum and natural gas lease.	Imperial Oil Limited	38,418.40
Located in Townships 17, 18 and 19, ranges 28, 29 and 30, west of the 4th meridian and range 1 west of the 5th meridian comprising 9,581 acres; requiring the drilling of a well into the Pekisko formation to acquire twelve quarter sections under petroleum and natural gas lease.	Texaco Exploration Company	107,125.00
Located in Townships 34 and 35, range 28, west of the 4th meridian and range 1, west of the 5th meridian, comprising 4,977 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Canadian Oil Companies Limited, The Calgary and Edmonton Corporation Limited and Security Freehold Petroleums Limited	25,500.75
Located in Townships 5 and 6, range 2, west of the 5th meridian, comprising 10,760 acres; requiring the drilling of a well into a zone of Mississippian age to acquire fourteen quarter sections under petroleum and natural gas lease.	Texaco Exploration Company	68,288.00
Located in Townships 5, 6 and 7, ranges 2 and 3, west of the 5th meridian, comprising 11,396 acres; requiring the drilling of a well into a zone of Mississippian age to acquire fourteen quarter sections under petroleum and natural gas lease.	Texaco Exploration Company	68,288.00

**CROWN RESERVE DRILLING RESERVATIONS PURCHASED
(Continued)**

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 46 and 47, ranges 2 and 3, west of the 5th meridian, comprising 4,464 acres; requiring the drilling of a well into the Viking zone to acquire seven quarter sections under petroleum and natural gas lease.	Imperial Oil Limited	28,011.11
Located in Townships 32 and 33, range 3, west of the 5th meridian, comprising 8,957 acres; requiring the drilling of a well into the Crossfield member of the Wabamun formation to acquire fourteen quarter sections under petroleum and natural gas lease.	Great Plains Development Company of Canada Ltd.	56,721.00
Located in Township 56, ranges 5 and 6, west of the 5th meridian, comprising 4,972 acres, requiring the drilling of a well into the Nisku member of the Winterburn formation to acquire eight quarter sections under petroleum and natural gas lease.	Tennessee Gas Transmission Company	22,797.22
Located in Township 60, range 5, west of the 5th meridian, comprising 6,247 acres; requiring the drilling of a well into the Wabamun formation to acquire seven quarter sections under petroleum and natural gas lease.	Mobil Oil of Canada Ltd.	20,101.11
Located in Township 33, ranges 7 and 8, west of the 5th meridian, comprising 11,520 acres; requiring the drilling of a well into the Elkton member of the Turner Valley formation to acquire fourteen quarter sections under petroleum and natural gas lease.	Dome Exploration (Western) Limited	777.76
Located in Township 56, ranges 8 and 9, west of the 5th meridian, comprising 5,111 acres; requiring the drilling of a well into a zone of Mississippian age to acquire seven quarter sections under petroleum and natural gas lease.	Tennessee Gas Transmission Company	18,277.79
Located in Townships 71 and 72, ranges 17 and 18, west of the 5th meridian, comprising 8,804 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire twelve quarter sections under petroleum and natural gas lease.	Imperial Oil Limited	28,808.82
Located in Townships 73 and 74, range 26, west of the 5th meridian and range 1 west of the 6th meridian comprising 9,875 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	Amerada Petroleum Corporation	22,517.67
Located in Townships 73 and 74, ranges 1 and 2, west of the 6th meridian, comprising 10,069 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	Amerada Petroleum Corporation	22,517.67
Located in Township 76, range 8, west of the 6th meridian, comprising 5,440 acres; requiring the drilling of a well into the Permo-Pennsylvanian sediments to acquire nine quarter sections under petroleum and natural gas lease.	Colorado Oil and Gas Ltd.	6,666.66
Located in Township 31, range 2, west of the 4th meridian, comprising 5,784 acres; requiring the drilling of a well into the Wabamun formation to acquire eight quarter sections under petroleum and natural gas lease.	The British American Oil Company Limited	16,333.99

CROWN RESERVE DRILLING RESERVATIONS PURCHASED
(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Township 31, ranges 3 and 4, west of the 4th meridian, comprising 5,142 acres; requiring the drilling of a well into the Wabamun formation to acquire eight quarter sections under petroleum and natural gas lease.	The British American Oil Company Limited	16,333.99
Located in Townships 44 and 45, ranges 16 and 17, west of the 4th meridian, comprising 5,289 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire eight quarter sections under petroleum and natural gas lease.	The British American Oil Company Limited	22,441.99
Located in Township 43, ranges 18 and 19, west of the 4th meridian, comprising 3,854 acres; requiring the drilling of a well into the Paleozoic sediments to acquire seven quarter sections under petroleum and natural gas lease.	Dome Exploration (Western) Limited	23,776.00
Located in Townships 29 and 30, ranges 23 and 24, west of the 4th meridian, comprising 6,835 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Union Oil Company of California and Canadian Oil Companies, Limited	50,141.25
Located in Townships 40 and 41, ranges 23 and 24, west of the 4th meridian, comprising 5,118 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire eight quarter sections under petroleum and natural gas lease.	Imperial Oil Limited	103,681.57
Located in Township 7, range 25, west of the 4th meridian, comprising 7,704 acres; requiring the drilling of a well into the Turner Valley formation of the Rundle group to acquire eleven quarter sections under petroleum and natural gas lease.	Royalite Oil Company Limited and Sinclair Canada Oil Company	35,205.55
Located in Townships 39, 40 and 41, ranges 25 and 26, west of the 4th meridian, comprising 6,388 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Great Plains Development Company of Canada Limited	56,672.00
Located in Townships 48 and 49, ranges 4 and 5, west of the 5th meridian, comprising 7,042 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Canada-Cities Service Petroleum Corporation	167,761.00
Located in Township 34, ranges 7 and 8, west of the 5th meridian, comprising 9,270 acres; requiring the drilling of a well into the Shunda formation of the Rundle group to acquire sixteen quarter sections under petroleum and natural gas lease.	Home Oil Company Limited	11,111.11
Located in Townships 69 and 70, range 9, west of the 5th meridian, comprising 4,960 acres; requiring the drilling of a well into the Banff formation to acquire seven quarter sections under petroleum and natural gas lease.	Shell Oil Company	6,611.31
Located in Townships 59 and 60, range 10, west of the 5th meridian, comprising 5,929 acres; requiring the drilling of a well into a zone of Mississippian age to acquire nine quarter sections under petroleum and natural gas lease.	Phillips Petroleum Company	30,000.00

**CROWN RESERVE DRILLING RESERVATIONS PURCHASED
(Continued)**

Description	Offer Accepted From:	Cash Purchase Price
Located in Township 60, ranges 10 and 11, west of the 5th meridian, comprising 5,760 acres; requiring the drilling of a well into a zone of Mississippian age to acquire eight quarter sections under petroleum and natural gas lease.	Phillips Petroleum Company	100,000.00
Located in Township 69, range 11, west of the 5th meridian, comprising 5,120 acres; requiring the drilling of a well into the Rundle group to acquire eight quarter sections under petroleum and natural gas lease.	Shell Oil Company	2,871.33
Located in Townships 53 and 54, ranges 16 and 17, west of the 5th meridian, comprising 11,499 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Bailey Selburn Oil & Gas Limited	53,766.76
Located in Townships 73 and 74, ranges 18 and 19, west of the 5th meridian, comprising 8,144 acres; requiring the drilling of a well into the granite wash to acquire twelve quarter sections under petroleum and natural gas lease.	Triad Oil Company Limited and Muskeg Oil Company	18,324.00
Located in Township 74, range 7, west of the 6th meridian, comprising 7,180 acres; requiring the drilling of a well into the Permo-Pennsylvanian sediments to acquire eleven quarter sections under petroleum and natural gas lease.	Colorado Oil and Gas Limited	21,191.70
Located in Townships 48 and 49, range 14, west of the 4th meridian, comprising 3,949 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire six quarter sections under petroleum and natural gas lease.	The California Standard Company	2,362.75
Located in Township 55, ranges 14 and 15, west of the 4th meridian, comprising 5,094 acres; requiring the drilling of a well into the Beaverhill Lake formation to acquire eight quarter sections under petroleum and natural gas lease.	Western Interprovincial Petroleum Producers Ltd.	3,107.34
Located in Township 57, range 19, west of the 4th meridian, comprising 4,320 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire seven quarter sections under petroleum and natural gas lease.	Cree Oil of Canada Limited	6,720.00
Located in Townships 16 and 17, range 22, west of the 4th meridian, comprising 6,723 acres; requiring the drilling of a well into the Crossfield member of the Wabamun formation to acquire ten quarter sections under petroleum and natural gas lease.	Shell Oil Company	45,099.99
Located in Townships 16 and 17, range 22, west of the 4th meridian, comprising 6,242 acres; requiring the drilling of a well into the Crossfield member of the Wabamun formation to acquire ten quarter sections under petroleum and natural gas lease.	Shell Oil Company	30,099.99
Located in Townships 15 and 16, ranges 23 and 24, west of the 4th meridian, comprising 7,177 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	L. P. Mann and Company Ltd.	884.48

CROWN RESERVE DRILLING RESERVATIONS PURCHASED
(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Township 43, ranges 23 and 24, west of the 4th meridian, comprising 6,454 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Canadian Export Gas Ltd.	43,667.89
Located in Townships 55 and 56, ranges 24 and 25, west of the 4th meridian, comprising 6,419 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire nine quarter sections under petroleum and natural gas lease.	Cree Oil of Canada Limited	31,330.00
Located in Townships 18 and 19, ranges 26 and 27, west of the 4th meridian, comprising 8,165 acres; requiring the drilling of a well into the Crossfield member of the Wabamun formation to acquire twelve quarter sections under petroleum and natural gas lease.	Shell Oil Company	10,001.01
Located in Townships 35 and 36, ranges 26, 27 and 28, west of the 4th meridian, comprising 7,376 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire twelve quarter sections under petroleum and natural gas lease.	Imperial Oil Limited	97,187.43
Located in Townships 18 and 19, ranges 27 and 28, west of the 4th meridian, comprising 6,566 acres; requiring the drilling of a well into the Banff formation to acquire twelve quarter sections under petroleum and natural gas lease.	Richfield Oil Corporation	48,635.27
Located in Townships 49 and 50, ranges 27 and 28, west of the 4th meridian, comprising 6,388 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Triad Oil Co. Ltd.	451,193.95
Located in Township 68, ranges 1 and 2, west of the 5th meridian, comprising 5,448 acres; requiring the drilling of a well into the Beaverhill Lake formation to acquire ten quarter sections under petroleum and natural gas lease.	John Mahstedt Young	2,724.00
Located in Townships 68 and 69, ranges 1 and 2, west of the 5th meridian, comprising 4,000 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire seven quarter sections under petroleum and natural gas lease.	John Mahstedt Young	2,000.00
Located in Townships 21 and 22, ranges 2 and 3, west of the 5th meridian, comprising 9,720 acres; requiring the drilling of a well into a zone of Mississippian age to acquire sixteen quarter sections under petroleum and natural gas lease.	E. H. Vallat Ltd.	76,362.98
Located in Townships 25 and 26, ranges 3 and 4, west of the 5th meridian, comprising 8,594 acres; requiring the drilling of a well into the Banff formation to acquire fifteen quarter sections under petroleum and natural gas lease.	Alberta Minerals and Oil Ltd.	1,190.00
Located in Township 40, ranges 3 and 4, west of the 5th meridian, comprising 6,410 acres; requiring the drilling of a well into the Banff formation to acquire ten quarter sections under petroleum and natural gas lease.	Richfield Oil Corporation	262,123.71

CROWN RESERVE DRILLING RESERVATIONS PURCHASED
(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 34 and 35, ranges 4 and 5, west of the 5th meridian, comprising 7,401 acres; requiring the drilling of a well into the Cardium formation to acquire ten quarter sections under petroleum and natural gas lease.	New Superior Oils of Canada Limited	161,111.00
Located in Township 46, range 4, west of the 5th meridian, comprising 7,018 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Plymouth Oil Company	72,888.50
Located in Township 49, ranges 4 and 5, west of the 5th meridian, comprising 6,721 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Canada-Cities Service Petroleum Corporation	236,642.00
Located in Townships 56 and 57, range 8, west of the 5th meridian, comprising 6,241 acres; requiring the drilling of a well into a zone of Mississippian age to acquire nine quarter sections under petroleum and natural gas lease.	Honolulu Oil Corporation	72,806.40
Located in Townships 55 and 56, range 16, west of the 5th meridian, comprising 10,892 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire sixteen quarter sections under petroleum and natural gas lease.	Stanolind Oil and Gas Company	158,587.52
Located in Township 75, ranges 19 and 20, west of the 5th meridian, comprising 8,297 acres; requiring the drilling of a well into the granite wash to acquire twelve quarter sections under petroleum and natural gas lease.	Triad Oil Co. Ltd.	30,321.40
Located in Townships 87 and 88, ranges 4 and 5, west of the 6th meridian, comprising 9,440 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire fourteen quarter sections under petroleum and natural gas lease.	Phillips Petroleum Company	24,662.40
Located in Townships 40 and 41, range 7, west of the 4th meridian, comprising 5,120 acres; requiring the drilling of a well into an Upper Devonian formation to acquire eight quarter sections under petroleum and natural gas lease.	Provo Gas Producers Limited Western Naco Petroleum Limited	107,889.00
Located in Townships 29 and 30, ranges 19 and 20, west of the 4th meridian, comprising 5,107 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire eight quarter sections under petroleum and natural gas lease.	Dome Exploration (Western) Limited Western Leaseholds Ltd.	17,678.00
Located in Townships 33 and 34, range 23, west of the 4th meridian, comprising 7,514 acres; requiring the drilling of a well into the Cooking Lake member of the Woodbend formation to acquire ten quarter sections under petroleum and natural gas lease.	Consolidated Mic Mac Oils Ltd.	16,400.00
Located in Townships 60 and 61, range 24, west of the 4th meridian, comprising 4,960 acres; requiring the drilling of a well into the Leduc member of the Woodbend formation to acquire seven quarter sections under petroleum and natural gas lease.	Union Oil Company of California	17,960.00

CROWN RESERVE DRILLING RESERVATIONS PURCHASED
(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Township 41, ranges 25, 26 and 27, west of the 4th meridian, comprising 5,280 acres; requiring the drilling of a well into the Basal Quartz Sandstone member of the Blairmore formation to acquire nine quarter sections under petroleum and natural gas lease.	Great Plains Development Company of Canada, Ltd.	26,740.80
Located in Townships 50 and 51, ranges 2 and 3, west of the 5th meridian, comprising 6,578 acres; requiring the drilling of a well into a zone of Mississippian age to acquire nine quarter sections under petroleum and natural gas lease.	Sharples Oil (Canada) Ltd., Mid-western Industrial Gas. Ltd., and Supertest Petroleum Corporation, Limited	30,263.58
Located in Townships 8, 9 and 10, range 3, west of the 5th meridian, comprising 8,002 acres; requiring the drilling of a well into a zone of Mississippian age to acquire twelve quarter sections under petroleum and natural gas lease.	Shell Oil Company	14,513.50
Located in Townships 17, 18 and 19, ranges 4, 5 and 6, west of the 5th meridian, comprising 10,086 acres; requiring the drilling of a well into the Rundle group to acquire fourteen quarter sections under petroleum and natural gas lease.	Pacific Petroleums Ltd.	250,111.00
Located in Townships 50 and 51, ranges 6 and 7, west of the 5th meridian, comprising 7,173 acres; requiring the drilling of a well into a zone of Mississippian age to acquire ten quarter sections under petroleum and natural gas lease.	Supertest Petroleum Corporation, Limited, Cree Oil of Canada Limited, Canadian Oil Companies Limited	40,400.00
Located in Township 84, ranges 16 and 17, west of the 5th meridian, comprising 8,160 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire ten quarter sections under petroleum and natural gas lease.	Forest Oil Corporation	35,210.00
Located in Townships 94 and 95, ranges 17 and 18, west of the 5th meridian, comprising 8,000 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire ten quarter sections under petroleum and natural gas lease.	Hudson's Bay Oil and Gas Company Limited and Union Oil Company of California	1,600.00
Located in Township 80, ranges 21 and 22, west of the 5th meridian, comprising 7,680 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire ten quarter sections under petroleum and natural gas lease.	Colorado Oil and Gas Ltd.	63,662.50
Located in Township 79, ranges 22 and 23, west of the 5th meridian, comprising 7,552 acres; requiring the drilling of a well into the zone immediately above the Pre-Cambrian granite to acquire ten quarter sections under petroleum and natural gas lease.	Colorado Oil and Gas Ltd.	126,662.25
Located in Township 85, range 23, west of the 5th meridian, comprising 6,076 acres; requiring the drilling of a well into a zone of Mississippian age to acquire eight quarter sections under petroleum and natural gas lease.	Colorado Oil and Gas Ltd.	15,662.25
Located in Townships 85 and 86, ranges 23 and 24, west of the 5th meridian, comprising 5,754 acres; requiring the drilling of a well into a zone of Mississippian age to acquire eight quarter sections under petroleum and natural gas lease.	Colorado Oil and Gas Ltd.	21,662.25

CROWN RESERVE DRILLING RESERVATIONS PURCHASED (Continued)

Description	Offer Accepted From:	Cash Purchase Price
Located in Townships 77 and 78, ranges 1 and 2, west of the 6th meridian, comprising 5,754 acres; requiring the drilling of a well into the Shunda formation of the Rundle group to acquire ten quarter sections under petroleum and natural gas lease.	Colorado Oil and Gas Ltd.	31,662.25
		\$ 4,146,819.42

CROWN RESERVE NATURAL GAS LICENCES PURCHASED

Description	Offer Accepted From:	Cash Purchase Price
Comprising 31,840 acres in Townships 30 and 31, ranges 1 and 2, west of the 4th meridian.	The British American Oil Company Limited	65,272.00
Comprising 19,200 acres in Townships 20, 21 and 22, range 2, west of the 4th meridian.	Provo Gas Producers Limited	26,111.00
Comprising 13,440 acres in Townships 1, 2 and 3, ranges 6 and 7, west of the 4th meridian.	Canadian-Montana Gas Company Limited	8,198.00
Comprising 22,080 acres in Townships 26 and 27, range 6, west of the 4th meridian.	Canadian Export Gas Ltd.	28,732.66
Comprising 4,480 acres in Township 42, ranges 12 and 13, west of the 4th meridian.	Richfield Oil Corporation	17,696.00
Comprising 24,160 acres in Township 23, ranges 3, 4 and 5, west of the 4th meridian.	Canadian Export Gas Ltd.	302,526.87
Comprising 22,880 acres in Townships 32, 33 and 34, ranges 6 and 7, west of the 4th meridian.	Provo Gas Producers Limited	2,368.00
Comprising 17,120 acres in Townships 39, 40 and 41, ranges 6, 7 and 8, west of the 4th meridian.	Provo Gas Producers Limited	4,487.00
Comprising 22,720 acres in Townships 4 and 5, ranges 11 and 12, west of the 4th meridian.	Canso Natural Gas Limited	15,000.00
Comprising 11,680 acres in Townships 35 and 36, ranges 17 and 18, west of the 4th meridian.	The British American Oil Company Limited	148,201.99
		\$ 618,593.52

CROWN RESERVE FRACTIONAL AREA LEASES PURCHASED

Description	Offer Accepted From:	Cash Purchase Price
Portions of Section 15, Township 39, range 27, west of the 4th meridian—3 acres.	Canadian Gulf Oil Company	\$ 2,746.17
Portions of Section 7, Township 39, range 26, west of the 4th meridian—46.10 acres.	Imperial Oil Limited	22,473.75
Portions of Section 31, Township 25, range 6, west of the 5th meridian—41.51 acres.	Shell Oil Company	560.39
Portions of Section 32, Township 25, range 6, west of the 5th meridian—18.35 acres.	Shell Oil Company	247.73
Portions of Section 4, Township 26, range 6, west of the 5th meridian—59.76 acres.	Shell Oil Company	806.76

CROWN RESERVE FRACTIONAL AREA LEASES PURCHASED
(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Portions of Section 5, Township 26, range 6, west of the 5th meridian—40.59 acres.	Shell Oil Company	547.97
Portions of Section 6, Township 26, range 6, west of the 5th meridian—39.99 acres.	Shell Oil Company	539.87
Portions of Section 35, Township 25, range 7, west of the 5th meridian—42.55 acres.	Shell Oil Company	574.43
Portions of Section 26, Township 25, range 7, west of the 5th meridian—54.60 acres.	Shell Oil Company	737.10
Portions of Section 15, Township 40, range 10, west of the 4th meridian—5.3 acres.	Phillips Petroleum Company	73.35
Portions of Section 26, Township 53, range 26, west of the 4th meridian—19.8 acres.	Imperial Oil Limited	4,135.64
Portions of Section 25, Township 53, range 26, west of the 4th meridian—43.8 acres.	Imperial Oil Limited	9,148.51
Portions of Section 5, Township 48, range 27, west of the 4th meridian—71.20 acres.	Dome Exploration (Western) Limited	20,086.23
Portions of Section 25, Township 36, range 26, west of the 4th meridian—44 acres.	Sohio Petroleum Company	4,547.84
Portions of Section 18, Township 20, range 1, west of the 4th meridian—83.4 acres.	The British American Oil Company Limited	937.42
Portions of Section 7, Township 20, range 1, west of the 4th meridian—21.8 acres.	The British American Oil Company Limited	179.84
		\$ 68,343.00

CROWN RESERVE NATURAL GAS LEASES PURCHASED
Pursuant to The Mines and Minerals Act
Section 275a Subsection (1a) Clause (a)

Description	Offer Accepted From:	Cash Purchase Price
Sec. 3-58- 9-4	Plains-Western Gas & Electric Co. Ltd.	\$ 765.00
N.E. ¼ 32-56- 6-4	Elk Point Gas, Ltd.	150.00
		\$ 915.00

CROWN RESERVE NATURAL GAS LEASES PURCHASED
Pursuant to The Mines and Mineral Act
Section 275a Subsection (1a) Clause (b)

Description	Offer Accepted From:	Cash Purchase Price
Portions of Section 13, Township 40, range 22, west of the 4th meridian—59.16 acres.	Canadian Superior Oil of California, Ltd.	\$ 6,100.88
Portions of Section 17, Township 29, range 22, west of the 4th meridian—88.2 acres.	Shell Oil Company	9,233.40
		\$ 15,334.28

Reservations.—During the fiscal year 223 reservations were issued covering an area of 9,820,820 acres and at the close of the year 910 reservations were active containing an area of 52,594,053 acres.

The revenue from reservation fees amounted to \$55,474.00, for extending reservations amounted to \$5,832,883.37 and the revenue from bonuses accepted by the Director of Mineral Rights at sales of petroleum and natural gas reservations by tender amounted to \$1,661,839.55.

Credit of not in excess of fifty percent of the approved expenditures incurred in geophysical examinations including drilling on petroleum and natural gas reservations may apply to the rental for one year of any lease or leases acquired out of the reservations and during the fiscal year under review rentals of \$3,183,279.48 were satisfied from such expenditures.

Crown Reserve Drilling Reservations.—During the fiscal year 82 drilling reservations were issued covering an area of 556,917 acres and at the close of the year 95 were active containing an area of 640,460 acres.

The revenue from drilling reservation fees amounted to \$20,500.00, from rentals \$325,490.95 and the revenue from accepted offers at sales of Crown reserve drilling reservations amounted to \$4,146,819.42.

Credit may be granted for expenditures incurred in drilling a well on a drilling reservation and applied in satisfaction of the first year's rental. During the fiscal year rental on leases acquired out of the reservation of \$73,884.00 were satisfied by credit.

Natural Gas Licences.—Fifteen natural gas licences covering an area of 272,042 acres were issued during the fiscal year and at the close of the year 15 licences were active containing an area of 434,686 acres. The revenue from fees was \$3,750.00 and from rentals was \$33,605.15. Credit may be granted for expenditures incurred in drilling a well on a natural gas licence and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the licences of \$11,360.20 were satisfied by credit.

Crown Reserve Natural Gas Licences.—Ten Crown reserve natural gas licences covering an area of 189,600 acres were issued during the fiscal year. At the close of the year 11 licences were active, containing an area of 199,200 acres. The revenue from fees was \$2,500.00, from rentals \$18,744.00 and the revenue from accepted offers at sales of Crown reserve natural gas licences amounted to \$618,593.52. Credit may be granted for expenditures incurred in drilling a well on a Crown reserve natural gas licence and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the licences of \$3,076.81 were satisfied by credit.

Natural Gas Leases.—The granting of natural gas leases continued and during the fiscal year a total of 32 leases were issued covering 135,096 acres, and at the close of the fiscal year a total of 273 leases were in existence comprising an area of 1,324,165 acres. Twenty-eight of the leases were granted out of natural gas licences or Crown reserve natural gas licences and permit the recovery of natural gas from one or more zones specified in the lease. Two leases authorizing the recovery of natural gas from the Colony and upper Mannville zones were issued, being considered essential in the operation of a natural gas utility and the remaining two leases authorizing the recovery of natural gas from the Leduc and Glouconitic Sandstone zones were issued comprising the balances of spacing units to permit natural gas wells that are capable of commercial production to be operated at full production allowables.

The annual rental of a natural gas lease is thirty-three and one-third cents an acre and while an adequate market or a market in which the lessee may participate is not available, the annual rental is reduced to ten cents an acre. The revenue from fees was \$340.00 and from rentals \$216,396.88.

COAL

In the fiscal year, 21 leases were issued containing 12,406 acres, being made up of new and renewal and second renewal leases. There are now 524 active leases comprising 153,333 acres. There were 22 road allowance coal mining leases issued and there are now 148 active. The revenue received from fees was \$325.00 and from lease rentals \$67,961.97.

Crown royalties collected during the fiscal year were \$165,134.62 and the following tonnage of coal, subject to royalty was mined:

	Tons
Coal Leases	1,634,446
Coal Lands and Mineral Sales	415,507
	<hr/>
TOTAL	2,049,953
	<hr/>

QUARRYING

Twenty-one quarrying leases comprising a total of 3,016 acres were issued during the fiscal year, five of which were for the removal of limestone, two for clay, three for bentonite, one for marl, one for shale and clay, four for clay, marl and volcanic ash, one for limestone and shale, three for dolomitic siltstone and one for sandstone.

Extraction of 1,640,345 tons of limestone and shale, 15,703 cubic yards of clay, 122 tons of dolomitic siltstone and 58 tons of sandstone from Crown leases was reported and at the close of the fiscal year 57 quarrying leases containing an area of 7,632 acres were active.

BITUMINOUS SANDS

Two bituminous sands leases, comprising a total of 54,049 acres were issued during the fiscal year, and at the close of the year 11 leases were active containing an area of 98,005 acres. Twenty bituminous sands prospecting permits were issued during the year, two permits were terminated and two were renewed. There were 22 permits active at the close of the year.

QUARTZ

Thirty-seven claims were recorded during the year. Sixty-eight existing claims were continued for a further year. The claim in the Drumheller district for the recovery of bentonite was one of those continued and extraction of 957 tons was reported.

PLACER

One placer claim was recorded and 103 were renewed for another year. No recovery of gold was reported during the year.

SODIUM CHLORIDE (Common Salt)

During the fiscal year the plant near Lindberg operated and the reported extraction was 36,901 tons, an increase of 590 tons over the previous year.

SULPHUR

The sulphur plants at Jumping Pound and Turner Valley produced 33,312 short tons during 1956, an increase of 4,219 tons over last year. Production commenced in December, 1956 at the Redwater plant and 152 tons were produced. The total production of sulphur in Alberta for 1956 was 33,464 tons.

SPECIAL PERMITS

As the well from which bitumen had been issuing was abandoned during 1955 the permit for collecting bitumen was not renewed.

IRON PROSPECTING PERMITS

During the year under review seven iron prospecting permits comprising 267,200 acres were issued by the Department. One permit was cancelled leaving eight permits comprising 362,336 acres active at the end of the year.

MINERAL SALES

A new section 24b was added to The Mines and Minerals Act at the first session of the Legislative Assembly in 1955. It provided a means whereby minerals in roadways acquired by the Crown many years ago may be returned to the adjacent owner. During the fiscal year one notification was issued pursuant to section 24b known as a mineral sale at a nominal consideration of \$1.00.

WELL LICENCES

There were 1,953 well licences issued during the fiscal year for the drilling of oil and gas wells, structure test holes, injection wells and water wells.

DRILLING STATISTICS

The drilling and production of petroleum and natural gas wells in the Province are administered by The Petroleum and Natural Gas Conservation Board, 603 - Sixth Avenue South-west, Calgary, Alberta, and particulars as to drilling activity, production and statistical data are included in weekly, monthly and annual reports issued by the Board.

GEOPHYSICAL AND GEOLOGICAL EXPLORATION

A person desiring to undertake geophysical or subsurface geological exploration must obtain a licence from the Department. The applicant before the issue of the licence must furnish a cash deposit to the Provincial Treasurer in the sum of \$1,000.00 to insure that operations are conducted in accordance with The Mines and Minerals Act and the regulations governing geophysical exploration. During this fiscal year 178 licences were issued and they will expire on the 31st of March following, unless renewed.

The regulations governing operations by seismic, gravimetric, magnetic, electrical, geochemical, test drilling or other method which may be used for the purpose of exploring the subsurface require the operator to obtain an annual permit to operate geophysical equipment and a fee of \$25.00 is required for each permit. During the fiscal year 18 such permits were issued and 81 renewed.

There are four investigators and each is allocated an area of the Province and he inspects crews in his area. When it is represented to the Department that a crew has interfered with the right of a person the matter is investigated and in the event that damage or other interference has resulted an investigator endeavours to assist the person affected and the crew in arriving at a settlement.

UNIT OPERATION OF MINERALS

During the fiscal year two agreements were entered into for unit operation of petroleum and natural gas properties. One agreement pertained to the Stettler D-2 pool in the Nisku member of the Winterburn formation in 6,464 acres in township 38, range 20, west of the 4th meridian. The other agreement pertained to the gas cap in the Bonnie Glen Field in eight and one-quarter sections in township 47, range 27, west of the 4th meridian and township 46, range 28, west of the 4th meridian.

In order to permit operators of petroleum and natural gas properties to comply with schemes directed or approved by The Petroleum and Natural Gas Conservation Board, nineteen agree-

ments were made permitting performance of the schemes. One agreement was for the injection of propane and butane into the Golden Spike South D-3 pool underlying the Golden Spike Field, and the reproduction of the propane and the butane. One agreement was for the injection of natural gas for pressure maintenance purposes through a well into the Leduc D-3 pool of the Duhamel Field. Another permitted the injection of water to measure the injectivity index of the Cardium sand in a well in the Pembina Field. Seven agreements permitted the injection of water for pressure maintenance purposes into the Cardium formation of the Pembina Field and eight agreements authorized the return of salt water produced with petroleum to subsurface formations in the Battle, Duhamel, Joarcam, Leduc, Lloydminster, Stettler, Sturgeon Lake South and Wizard Lake Field.

STAFF

At the close of the fiscal year the Division staff numbered 55 employees and continued to give the same conscientious and capable service that has been given in the past.

We were deeply grieved to hear of the death of Edward Cross, Assistant Supervisor of Revenue, who died after a lengthy illness on November 4, 1956. Mr. Cross was born on April 5, 1911 and joined the public service with the Department of Public Works on December 17, 1928. He came to the Department of Mines and Minerals on April 1, 1954.

Technical Division

Report of the Superintendent of the Technical Division

J. M. NOVAK

The following report summarizes the operations of the Technical Division for the fiscal year ending March 31, 1957.

DRAUGHTING, LAND DESCRIPTIONS AND GENERAL

The series of maps covering approximately forty-eight townships for each area and on a scale of three-quarters of an inch to the mile were drawn covering the following new areas:

BEAVERHILL LAKE—Townships 49 to 56, Ranges 15 to 20, West of the 4th Meridian.

PEMBINA WEST—Townships 45 to 52, Ranges 12 to 17, West of the 5th Meridian.

Seven new maps were drawn to a scale of two inches to the mile on transparent township plans covering the following fields:

Battle North, Bellshill Lake, Dowling Lake, Harold Lake, Keystone, Pouce Coupe South and Watts.

All new maps drawn and previously drawn are subject to showing the locations of wells as well licenses are granted. When the status of a well changes, it is adjusted on the maps. The limits of fields as established by the Petroleum and Natural Gas Conservation Board are also included on the maps.

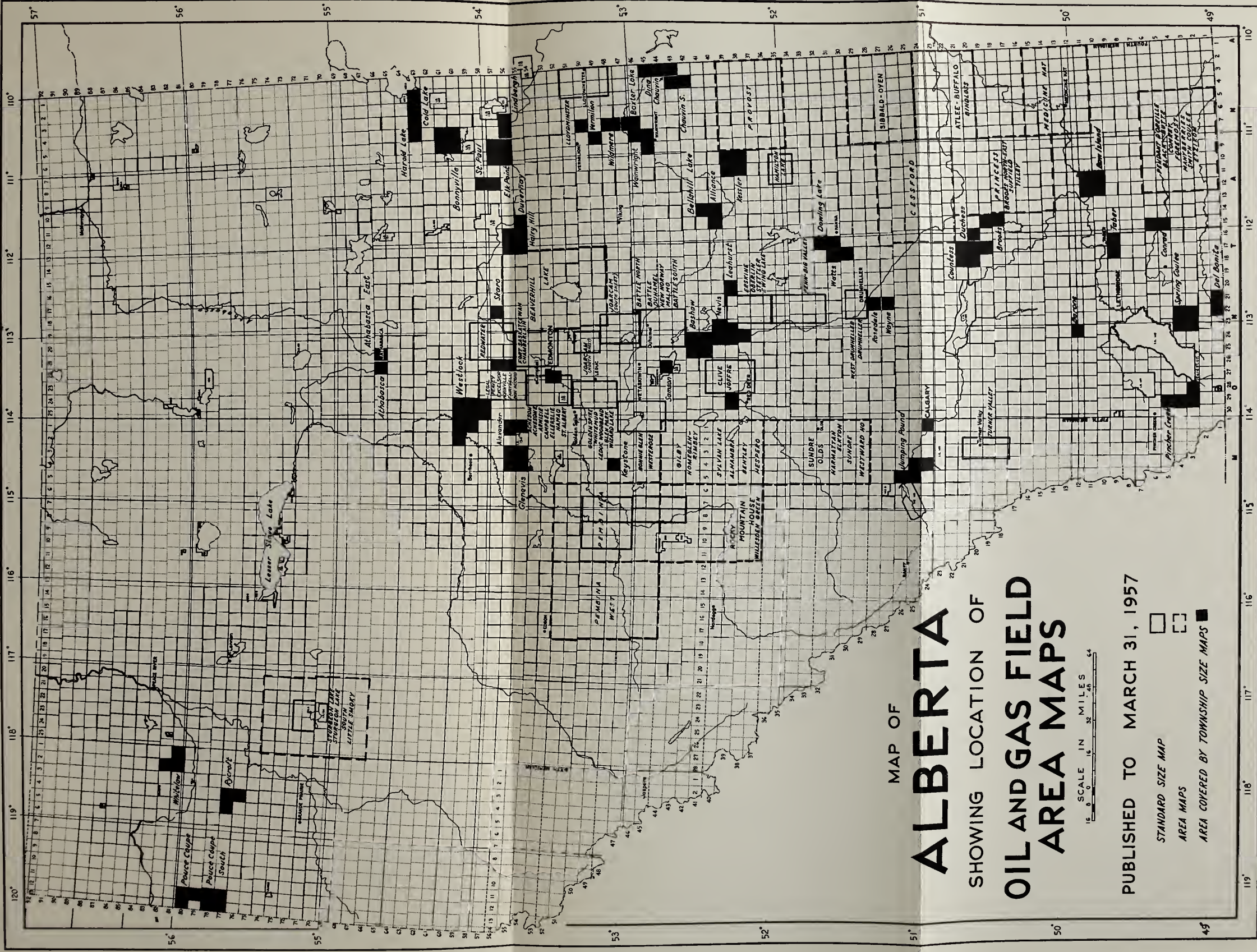
A map of the Province showing the location of oil and gas field maps published to March 31, 1957, is included in this report.

A total of 5,108 maps was distributed by the department which is an increase of 2,690 from the 2,418 maps distributed in the previous year. A list of maps is available indicating the price of each map.

This Division maintains a weekly service at a cost of \$75.00 a year which entitles a subscriber to a sketch of each new reservation or gas license issued and each reservation or gas license amended, cancelled or converted to lease. The number of subscribers increased from 62 to 63 and 46,000 copies of sketches were prepared and mailed showing an increase of approximately 5,000 over last year's total.

During the year, 1,957 applications for licenses to drill wells were recommended for issue by the Petroleum and Natural Gas Conservation Board, which is an increase of 60 from the 1,897 applications dealt with in the previous year. The Division, upon receipt of each application, searches the ownership of the minerals in the spacing unit allotted to the well.

Land descriptions were prepared for all mineral dispositions, as well as descriptions for recommendations to council.



MAP OF

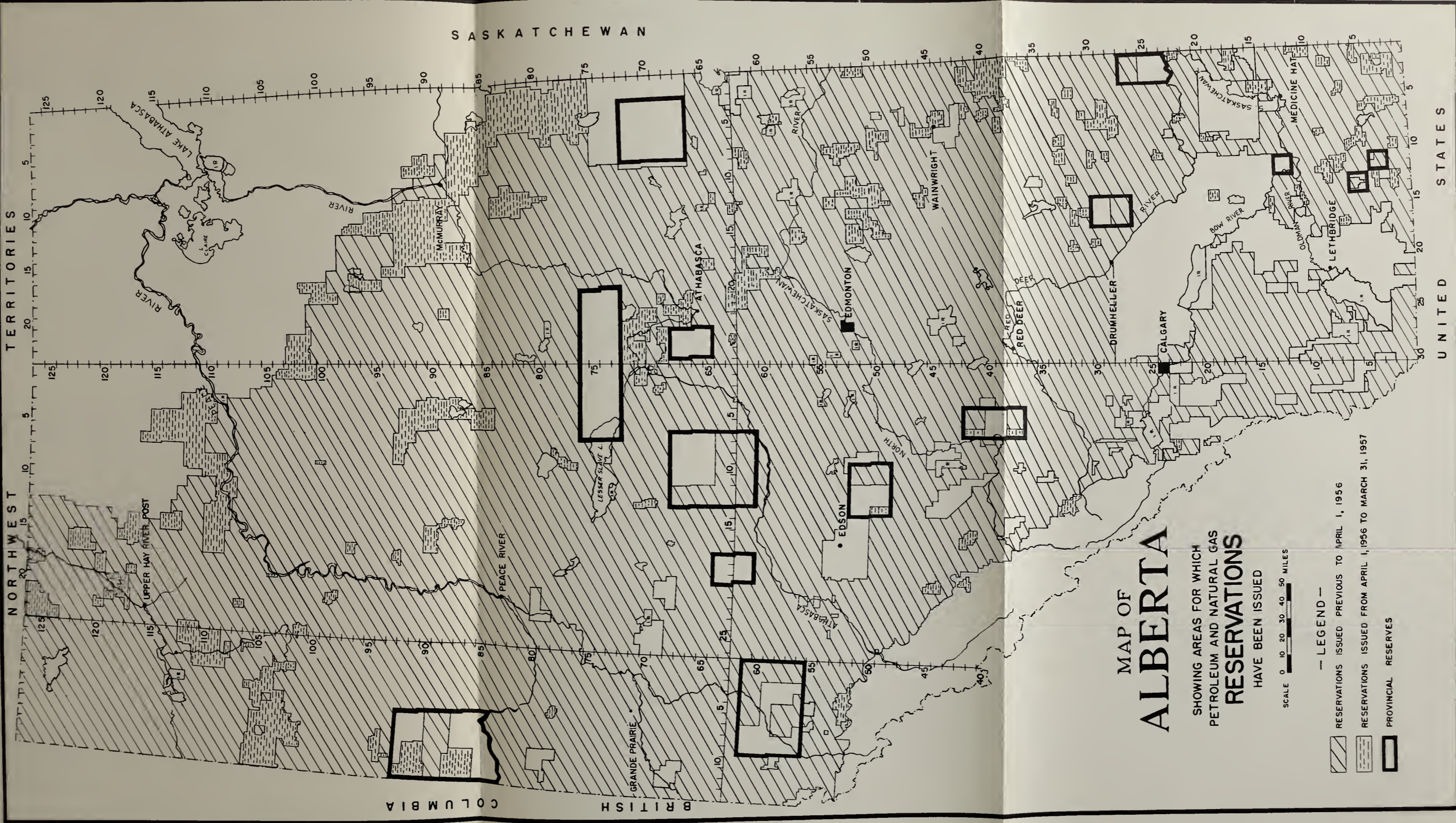
ALBERTA

SHOWING LOCATION OF
OIL AND GAS FIELD
AREA MAPS

SCALE IN MILES
0 16 32 48 64

PUBLISHED TO MARCH 31, 1957

- STANDARD SIZE MAP
- AREA MAPS
- AREA COVERED BY TOWNSHIP SIZE MAPS



TERRITORIES

NORTHWEST

SASKATCHEWAN




BRITISH COLUMBIA

UNITED STATES

MAP OF ALBERTA

SHOWING AREAS FOR WHICH
**PETROLEUM AND NATURAL GAS
 RESERVATIONS**
 HAVE BEEN ISSUED

SCALE 0 10 20 30 40 50 MILES

- LEGEND —
-  RESERVATIONS ISSUED PREVIOUS TO APRIL 1, 1956
 -  RESERVATIONS ISSUED FROM APRIL 1, 1956 TO MARCH 31, 1957
 -  PROVINCIAL RESERVES

In addition to the 46,000 copies of petroleum and natural gas reservation sketches which were reproduced on the multigraph duplicator machine, 563,926 copies of other items were reproduced, representing an increase of 284,668 copies over the previous year.

The map of Alberta showing the areas covered by all petroleum and natural gas reservations to March 31, 1956, has been revised to indicate the area of reservations issued during the present year and is included in this report.

The photostat and ozalid print requirements of the Department, as in past years, continued to be supplied by the Technical Division, Department of Lands and Forests.

The "Verifax Copier" reproduced 8,367 copies from original letters and other items as required during the year under review.

The plan attached to each of the 37 applications for quartz claims and 1 placer claim was examined and, when satisfactory, plotted in the departmental township record and, if in the district north of Lake Athabasca and east of Slave River, on the tracing of the small scale maps of the area.

RECORDS

In addition to the work completed as shown in the tables hereunder, the Records Branch of the Division supplied 2,939 township plots to the public indicating available Crown minerals and also plots showing the status of Crown minerals compared to 3,575 plots distributed in the previous year.

*DISPOSITIONS, CANCELLATIONS AND ASSIGNMENTS RECORDED IN THE TOWNSHIP REGISTERS

	1955-56	1956-57
Coal Mining Leases	81	45
Road Allowance Coal Mining Leases	13	35
Petroleum and Natural Gas Leases	4,166	4,680
Petroleum and Natural Gas Reservations	552	481
Crown Reserve Drilling Reservations	107	155
Natural Gas Licences	27	32
Natural Gas Leases	57	40
Crown Reserve Natural Gas Licences	26	20
Quarrying Leases	10	25
Notifications	26	7
Assignments	2,611	5,686
Bituminous Sands Prospecting Permits	7	22
Bituminous Sands Leases	8	2
Quartz Claims	180	107
Placer Claims	97	104
Special Mineral Leases	1	.....
Iron Prospecting Permits	3	8
Mineral Sales	10	1
TOTALS	7,982	11,450

*Includes issued, reinstated, divided, renewed and certificates of work.

NUMBER OF AGREEMENTS ASSIGNED

	1955-56	1956-57
Petroleum and Natural Gas Lease	2,541	4,795
Petroleum and Natural Gas Reservation	26	761
Natural Gas License	4	1
Natural Gas Lease	17	76
Coal Lease	8	18
Quarrying Lease	7	3
Permit to Operate Geophysical Equipment	7	1
Geophysical License	4	11

DEPARTMENT OF MINES AND MINERALS

Bituminous Sands License	1	.....
Bituminous Sands Lease		5
Crown Reserve Drilling Reservation		14
Crown Reserve Natural Gas License		1
TOTALS	2,611	5,686

NUMBER OF DOCUMENTS FILED

Type of Document	1955-56	1956-57
Mechanic's Lien	7	14
Discharge of Mechanic's Lien	9	9
Lis Pendens		3
TOTALS	16	26

FILING

A comparison of the filing activity during the year under review and the previous year is shown on the following schedule of files cancelled and new files opened.

NEW FILES OPENED AND FILES CANCELLED

Type of File	Opened 1955-56	Cancelled 1955-56	Opened 1956-57	Cancelled 1956-57
Lease, Reservation, Permit, etc.	2,910	2,223	4,623	2,038
Company	139		144	1
Coal Royalty	14	16	19	12
General	141	2	300	5
Alienated	11		20	
Well Deposit	23		35	
Unit	6		2	
Structure Test	7		5	
Water Well	7		7	
Petroleum and Natural Gas Royalty	1,011	78	1,027	109
Battery	135	16	169	8
Group	3	3	8	5
Geophysical License	189	1	159	2
Geophysical License Deposit	10		10	51
Permit to Operate Geophysical Equipment	24	3	28	8
Scheme	17		33	1
Power of Attorney	125		13	1
TOTALS	4,772	2,342	6,602	2,241

Seven notifications were issued during the year, three completed exchanges of minerals, one was a mineral sale, one transferred minerals to Her Majesty in the right of Canada and two were substitutional notifications.

During the eight years of the operation of the Department eighty-one notifications for minerals have been issued.

Mineral Tax Division

Report of the Superintendent

V. L. SCOTT

The fiscal year ending March 31, 1957 showed revenue from producing area tax of \$1,070,380.73 as against \$1,031,802.40 for the previous year, an increase of \$38,578.33.

The rate of acreage tax was again established at 1½ cents per acre for 1956 resulting in a revenue of \$272,883.90 being an increase of \$8,387.40 over the previous year.

In 1956, eight new producing areas were established by Ministerial Order and are listed hereunder showing the number of parcels assessed, mineral assessed and the assessed value of each producing area.

Producing Area	Parcels Assessed	Principal Mineral	Assessed Value
Battle North	2	Petroleum	\$104,505.55
Battle South	4	Petroleum	480,390.47
Duvernay-Hairy Hill	21	Natural Gas	54,775.52
Fort Saskatchewan	29	Natural Gas	275,500.25
South Princess	5	Petroleum	30,474.18
Wainwright	34	Petroleum	472,617.20
Wayne	2	Petroleum	271,169.05
Westward Ho	3	Petroleum	722,950.24

Producing areas of the Province, previously designated by Ministerial Order, were again included in the Assessment Roll for the year 1956 and are also listed hereunder:

Producing Area	Parcels Assessed	Principal Mineral	Assessed Value
Acheson	23	Petroleum	\$5,425,184.74
Acheson East	1	Petroleum	80.00
Alliance	1	Petroleum	80.00
Armistice	6	Petroleum	85,368.19
Bashaw	2	Petroleum	131,667.21
Baxter Lake	3	Petroleum	37,811.09
Black Butte	1	Natural Gas	128,112.72
Bon Accord	5	Petroleum	212,923.63
Bonnie Glen	18	Petroleum	11,918,933.98
Campbell	12	Petroleum	87,205.19
Cessford	1	Petroleum	375,819.82
Chamberlain	4	Petroleum	22,087.80
Chauvin	5	Petroleum	174,252.45
Clive	4	Petroleum	564,683.54
Conrad	1	Petroleum	13,915.44
Duhamel	3	Petroleum	283,498.75
Ellerslie	7	Petroleum	110,246.81
Erskine	9	Petroleum	1,042,600.84
Excelsior	5	Petroleum	1,507,453.56
Fairydell	4	Petroleum	766,740.65
Fenn-Big Valley	40	Petroleum	13,652,949.66
Glen Park	2	Petroleum	214,617.06
Hamilton Lake	7	Petroleum	177,549.75
Joarcam	80	Petroleum	9,086,448.12
Joffre	31	Petroleum	4,699,953.19
Jumping Pound	56	Natural Gas	839,728.88
Leduc-Woodbend	275	Petroleum	34,462,726.31
Legal	1	Petroleum	41,452.35
Lindbergh	3	Natural Gas	24,682.00
Lloydminster	32	Petroleum	1,203,296.83
Malmo	6	Petroleum	787,736.26
Medicine Hat-Redcliff	110	Natural Gas	377,556.35
Morinville	64	Natural Gas	49,953.00
Namao	8	Petroleum	135,884.37
New Norway	1	Petroleum	542,347.98
Peavey	1	Petroleum	90,358.32
Redwater	16	Petroleum	14,338,421.51
Rimbey	18	Petroleum	916,672.86
St. Albert	42	Natural Gas	448,114.39
Stettler	10	Petroleum	2,298,970.12
Taber	1	Petroleum	21,728.70

Turner Valley	66	Petroleum and Natural Gas	6,456,004.59
Viking-Kinsella	349	Natural Gas	1,685,958.48
Westerose	5	Petroleum	4,159,014.80
Whitemud	1	Petroleum	22,493.77
Wizard Lake	6	Petroleum	7,946,060.38

In addition to producing areas designated by Ministerial Order, producing areas pursuant to Section 2, Clause (j), Sub-clauses (ii) and (iii) of the Mineral Taxation Act, 1947, included 561 parcels and the principal minerals assessed were petroleum, natural gas and coal with a total assessed value of \$3,545,011.59.

Under the heading of parcels assessed are the number of items appearing on the assessment roll and each parcel relates to the area contained in a certificate of title. In determining the assessed value of a parcel each spacing unit on which a well has been brought into production is calculated separately; consequently, several calculations may be made in arriving at the assessment for petroleum in a parcel containing minerals in a section of land.

The revenue derived from the taxation of minerals from the enactment of the statute in 1941 until March 31st, 1949 collected by the Department of Land and Mines was \$1,921,180.47 and revenue collected by the Department of Mines and Minerals from April 1st, 1949 is shown in the following tabulation:

Year	Mill Rate	Producing	Per Acre	Acreage Tax	Fees	Total
1949-50	8	\$ 452,838.16	1½¢	\$297,883.10	\$ 286.50	\$ 751,007.76
1950-51	8	526,029.61	1½¢	307,062.62	511.00	833,603.23
1951-52	8	444,293.91	1½¢	323,185.71	2,320.10	769,799.72
1952-53	8	572,671.45	1½¢	310,285.08	3,204.00	886,160.53
1953-54	8	717,352.55	1½¢	283,853.18	1,055.50	1,002,261.23
1954-55	8	1,031,913.72	1½¢	277,842.74	1,467.00	1,311,223.46
1955-56	8	1,031,802.40	1½¢	264,496.50	914.50	1,297,213.40
1956-57	8	1,070,380.73	1½¢	272,883.90	1,101.50	1,344,366.13
						\$8,195,635.46

A comparatively large number of acreage tax accounts which had fallen in arrears for one or more years, were brought up to date during 1956, accounting for the increase in revenue from that source.

Anyone may, for a fee of fifty cents, obtain a mineral tax certificate, showing whether or not all taxes in respect of the minerals described in a certificate of title have been paid, and if not, the amount of current taxes and arrears payable with respect to the mineral or minerals. During the fiscal year 2,203 certificates were issued.

Accounting Division

*Report of the Administrative Accountant
and Personnel Officer*

W. E. SHILLABEER

A surplus of \$132,532,617.52 on Income Account was shown for the fiscal year ending March 31st, 1957.

Net Revenue on Income Account amounted to \$134,086,463.86.

Gross Receipts from all sources amounted to \$152,395,191.03.

Expenditure on Income Account for the year amounted to \$1,553,846.34. Particulars of expenditure may be found in Statement "C".

As at March 31st, 1957 there were 31,651 Accounts Receivable as compared with 29,932 as at March 31st, 1956. The number of active accounts as at March 31st, 1957 is made up as follows:

	No. of Accounts
Petroleum and Natural Gas Leases, Rental	25,617
Petroleum and Natural Gas Leases, Royalty	1,369
Petroleum and Natural Gas Reservations	909
Petroleum and Natural Gas Drilling Reservations	95
Natural Gas Licenses	16
Natural Gas Leases	280
Crown Reserve Natural Gas Licenses	9
Coal Leases, Rental	642
Coal Leases, Royalty	112
Registration of Assignment Tax	300
Mineral Tax (Producing Area)	2,166
Mining Leases (Miscellaneous)	136
	31,651

There were 2,593 accounts cancelled, closed, transferred or paid in full and 4,312 accounts opened.

INDEX TO STATEMENTS

- A—Statement of Receipts from all sources.
- B—Statement of Receipts—Income Account.
- C—Statement of Expenditure by Appropriation and Character.
- D—Statement of Net Receipts by Division.
- E—Statement of Receipts—School Minerals.
- F—Statement of Receipts and Expenditure.
- G—Statement of Provincial Minerals Revenue by Fiscal Years received by the Province for the period April 1st, 1949 to March 31st, 1957.
- H—Statement of School Minerals Revenue by Fiscal Years received by the Province for the period April 1st, 1949 to March 31st, 1957.

Statement A

STATEMENT OF RECEIPTS FROM ALL SOURCES
From April 1st, 1956 to March 31st, 1957

	Gross Receipts	Refunds	Net Receipts
Income Account	\$134,150,340.03	\$ 63,876.17	\$134,086,463.86
Reimbursement of Previous Year's Expenditure	50.63	.....	50.63
Suspense (Unapplied receipts carried forward, subject to refund)	18,244,800.37	17,172,432.04	1,072,368.33
	<u>\$152,395,191.03</u>	<u>\$17,236,308.21</u>	<u>\$135,158,882.82</u>

Statement B

STATEMENT OF RECEIPTS INCOME ACCOUNT
From April 1st, 1956 to March 31st, 1957

INCOME ACCOUNT:

	Gross Receipts	Refunds	Net Revenue
PROVINCIAL MINERALS:			
Coal Fees, Rentals, etc.	\$ 67,110.78	\$ 695.00	\$ 66,415.78
Coal Royalty	151,865.88	75.00	151,790.88
Coal Mines Act Sundry Revenue	2,812.35	19.50	2,792.85
Petroleum and Natural Gas Fees, Rentals, etc.	24,346,318.41	38,748.63	24,307,569.78
Petroleum and Natural Gas Royalty	34,499,021.46	9,533.20	34,489,488.26
Crown Reserve Sales	67,531,659.11	.....	67,531,659.11
Mining Miscellaneous	269,979.48	5,600.41	264,379.07
SCHOOL MINERALS:			
Coal Fees, Rentals, etc.	1,871.19	.....	1,871.19
Coal Royalty	13,343.74	.....	13,343.74
Petroleum and Natural Gas Fees, Rentals, etc.	1,514,790.23	2,544.70	1,512,245.53
Petroleum and Natural Gas Royalty	2,808,488.89	5,462.84	2,803,026.05
Crown Reserve Sales	1,519,201.38	.....	1,519,201.38
Mining Miscellaneous	2,411.12	.....	2,411.12
MINERAL TAXATION ACT:			
Mineral Tax	1,345,217.02	850.89	1,344,366.13
MISCELLANEOUS (Casual)			
	<u>76,248.99</u>	<u>346.00</u>	<u>75,902.99</u>
TOTAL INCOME ACCOUNT			
(Carried to Statement A)	<u>\$134,150,340.03</u>	<u>\$ 63,876.17</u>	<u>\$134,086,463.86</u>

EXPENDITURE CLASSIFIED BY APPROPRIATIONS AND CHARACTER
FOR THE YEAR ENDED MARCH 31st, 1957
INCOME ACCOUNT

SERVICE	2002 Deputy Minister's Office	2003 Accounts Division	2005 Geological Division	2006 Mines Division	2007 Mineral Rights Division	2008 Mineral Tax Division	2009 Petroleum & Natural Gas Cons. Board	2010 Technical Division	2011 Postage	2012 Printing, Stationery and Office Supplies	2013 Administration Gas Resources Preservation Act	2014 Right of Entry Arbitration Board	2015 Supervisory and Safety Training Program	2016 Geophysical Branch	2017 Abandonment of Mining Properties	Total
Advertising					18,649.81											18,649.81
Automobiles					25.00	2.94		35.53						771.42		1,767.43
Books and Binding	1,491.62			190.32	47.37	825.03	462.38					996.01				1,802.24
Equipment	142.61	215.73		570.98				350.66				56.83				4,181.54
Examinations				310.38								1,927.63		210.13		570.98
Freight, Express and Cartage		156.51														468.89
Grants						30,459.75										44,959.75
Miscellaneous Supplies and Expenses	415.94	119.70		58.66	349.43	47.24	503,461.46	6,762.46			423.60	89.15	14,500.00			846,801.06
Newspapers and Periodicals	130.40	9.00		14.75	142.00	6.00						16.00		39.55	335,033.87	318.15
Postage				116.51					8,306.16			443.31				8,865.98
Printing and Stationery				2,990.48						17,928.70						21,545.24
Rates, Rentals and Insurance	55.80			113.16	88.25							626.06				511.10
Repairs and Replacements	309.27	539.74		347.66	1,542.87	356.15		424.43				198.09		55.80		5,648.31
Salaries	32,371.80	65,224.89	2,614.40	62,755.44	145,810.59	56,168.07		119,242.01				1,729.56		398.63		554,058.73
Telegrams and Telephones	739.71	58.45		288.78	1,975.16	325.60	35.80	419.15				47,241.64		22,629.89		5,183.08
Travelling Expenses	2,466.03	201.89		7,779.27	2,214.62	3,718.81	2.00	789.12				322.98		1,017.45		38,516.05
												4,854.54		16,489.77		
TOTAL: Income Account	38,123.18	66,525.91	2,614.40	75,583.76	171,622.76	91,546.94	503,499.26	128,023.36	8,306.16	17,928.70	423.60	58,501.80	14,500.00	41,612.64	335,033.87	1,553,846.34

Statement D

STATEMENT OF NET RECEIPTS BY DIVISIONS
For Fiscal Year Ending March 31st, 1957

INCOME ACCOUNT:	
Mineral Rights Division	\$132,663,401.89
Mineral Tax Division	1,344,366.13
Mines Division	2,792.85
Miscellaneous (Administration Sundry Revenue, Reimbursements, etc.)	75,902.99
TRANSFERRED TO OTHER DEPARTMENTS	50.63
SUSPENSE (Unapplied receipts carried forward, subject to refund)	1,072,368.33
	<hr/> <hr/> \$135,158,882.82 <hr/> <hr/>

Statement E

STATEMENT OF RECEIPTS—SCHOOL MINERALS
From April 1st, 1956 to March 31st, 1957

INCOME ACCOUNT:		Receipts	Refunds	Net Revenue
Coal Fees, Rentals, etc.	\$ 1,871.19	\$	.....	\$ 1,871.19
Coal Royalty	13,343.74	.....	.....	13,343.74
Petroleum and Natural Gas Fees, Rentals, etc.	1,514,790.23	2,544.70	.....	1,512,245.53
Petroleum and Natural Gas Royalty	2,808,488.89	5,462.84	.....	2,803,026.05
Crown Reserve Sales	1,519,201.38	.....	.....	1,519,201.38
Mining Miscellaneous	2,411.12	.....	.....	2,411.12
	<hr/> <hr/> \$5,860,106.55 <hr/> <hr/>	<hr/> <hr/> \$8,007.54 <hr/> <hr/>	<hr/> <hr/> \$5,852,099.01 <hr/> <hr/>	

Statement F

STATEMENT OF RECEIPTS AND EXPENDITURE
For Fiscal Year Ending March 31st, 1957

Gross Receipts	Refunds	Net Receipts	Net Revenue on Income Account	Total Expenditure From Appro- priations	Surplus on Income Account
\$152,395,191.03	\$17,236,308.21	\$135,158,882.82	\$134,086,463.86	\$1,553,846.34	\$132,532,617.52

STATEMENT OF PROVINCIAL MINERALS REVENUE BY FISCAL YEARS
RECEIVED BY THE PROVINCE FOR THE PERIOD
APRIL 1, 1949 to MARCH 31, 1957

	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	Total
COAL									
Fees and Rentals	\$ 185,412.49	\$ 174,085.27	\$ 211,582.89	\$ 170,286.62	\$ 142,278.66	\$ 49,933.84	\$ 50,132.58	\$ 66,415.78	1,050,078.13
Royalty	600,493.96	577,667.84	394,441.24	354,123.99	268,694.28	216,147.06	201,607.49	151,790.88	2,764,966.74
Sundry Revenue	6,183.50	5,335.30	5,209.45	4,526.05	3,902.20	3,067.90	2,816.20	2,792.85	33,833.45
PETROLEUM AND NATURAL GAS									
Fees and Rentals	5,741,111.95	9,034,896.06	14,134,672.25	18,236,470.24	23,096,649.12	19,057,601.56	19,869,509.92	24,307,569.78	133,478,480.88
Royalty	3,368,918.86	4,760,569.46	10,062,772.17	12,353,945.64	17,048,688.02	18,519,831.09	26,610,868.37	34,489,488.26	127,215,081.87
Crown Reserve Sale	23,180,998.77	28,008,052.42	12,517,931.33	19,659,005.63	49,590,009.60	38,954,155.80	71,931,568.77	67,531,659.11	311,373,381.43
SALT									
Fees and Rentals	564.00	3,129.00	1,005.60	1,005.60	1,005.60	1,005.60	1,005.60	1,010.60	9,731.60
Royalty	2,024.92	9,230.96	4,895.32	6,806.71	7,063.37	7,978.06	9,868.92	10,050.54	57,918.80
QUARRYING									
Fees and Rentals	1,019.31	1,176.72	291.28	227.23	325.01	185.52	173.30	213.25	3,611.62
Royalty	29,939.08	36,486.29	27,908.36	29,309.75	38,798.28	41,181.51	39,552.17	53,590.28	296,765.72
QUARTZ									
Fees and Royalty	377.56	630.00	853.47	3,826.17	15,750.92	3,283.19	1,944.82	1,180.35	27,846.48
PLACER									
Fees and Royalty .....	.....	325.08	42.79	30.00	30.00	1,510.00	1,117.50	1,346.15	4,401.52
BITUMINOUS SANDS									
Fees, Rentals and Royalties	13,350.28	7,173.20	7,173.20	52,480.95	62,994.50	42,543.76	197,997.20	89,878.58	473,591.67
MINING MISCELLANEOUS									
Fees, Rentals and Royalty	218,265.08	126,786.20	299,699.45	223,672.12	191,983.44	105,279.64	185,582.37	107,108.32	1,458,347.62
MINERAL TAX									
Non-Producing Area Tax	297,893.10	307,062.62	323,185.71	310,285.08	283,853.18	277,842.74	264,496.50	272,883.90	2,337,492.83
Producing Area Tax	452,838.16	526,029.61	444,293.91	572,671.45	717,352.55	1,031,922.72	1,031,802.40	1,070,360.73	5,847,291.53
Certificate Fees	286.50	511.00	2,350.10	3,204.00	1,055.50	1,467.00	914.50	1,101.50	10,860.10
ADMINISTRATION									
SUNDRY REVENUE	21,915.60	34,734.13	61,946.42	83,735.45	90,413.82	69,268.78	51,489.41	75,902.99	489,406.60
TOTAL	\$34,121,583.12	\$43,613,831.16	\$38,500,224.94	\$52,065,612.68	\$91,560,818.05	\$78,384,205.77	\$120,452,448.02	\$128,234,364.85	\$586,933,088.59

ACCOUNTING DIVISION

STATEMENT OF SCHOOL MINERALS REVENUE BY FISCAL YEARS
RECEIVED BY THE PROVINCE FOR THE PERIOD
APRIL 1, 1949 TO MARCH 31, 1957

	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	Total
COAL,									
Fees and Rentals	\$ 6,313.28	\$ 6,965.91	\$ 3,761.05	\$ 5,888.62	\$ 6,474.45	\$ 2,099.50	\$ 1,797.51	1,871.19	35,171.51
Royalty	51,074.51	45,643.83	42,969.61	25,368.52	17,874.97	14,759.80	15,232.15	13,343.74	226,267.13
PETROLEUM AND									
NATURAL GAS									
Fees and Rentals	514,065.59	744,745.23	1,245,877.55	1,445,874.57	1,501,344.38	1,597,125.63	1,500,750.38	1,512,245.53	10,062,028.86
Royalty	242,199.47	429,423.19	975,317.20	1,157,068.02	1,516,438.34	1,694,748.02	2,184,005.64	2,803,026.05	11,002,163.93
Crown Reserve Sales	50,449.43	1,072,579.97	693,357.64	3,868,438.03	3,646,107.46	1,059,164.00	4,143,163.73	1,519,201.38	16,052,461.64
BITUMINOUS SANDS									
Fees, Rentals and Royalty	1,845.00	565.00	565.00	892.05	932.10	623.20	1,184.20	1,558.12	8,164.67
MINING MISCELLANEOUS									
Fees, Rentals and Royalty .....	.....	3,896.01	3,768.15	1,008.00	23.00	350.61	794.75	853.00	10,633.52
TOTAL	\$ 865,947.28	\$ 2,303,819.14	\$ 2,965,616.20	\$ 6,504,475.81	\$ 6,689,194.70	\$ 4,368,870.76	\$ 7,846,868.36	\$ 5,852,099.01	\$ 37,396,891.26

PERSONNEL

The number of employees in the Department showed an increase of fourteen from 162 on April 1st, 1956 to 176 on March 31st, 1957.

During the same period, 47 employees left the Department, of these 11 resigned to accept employment outside the government service, 4 transferred to other departments, 3 were dismissed, 2 retired, 1 deceased and the remainder left for various other reasons.

