FIRST ANNUAL REPORT ON

KELWREN GOLD MINES LIMITED

FOR THE PERIOD

FROM THE INCORPORATION OF THE COMPANY

ON MAY 9, 1945

TO DECEMBER 31, 1946.

KELWREN GOLD MINES LIMITED

HEAD OFFICE:

2810, 25 King Street West, Toronto

EXECUTIVE OFFICE:

P.O. Box 997, Haileybury, Ontario

OFFICERS:

J. M. Cunningham-Dunlop
President

A. G. Fulton
Secretary-Treasurer

Frank C. Sullivan
Assistant Secretary-Treasurer

DIRECTORS:

J. M. Cunningham-Dunlop

W. S. Morlock

D. G. H. Wright

T. R. Rowe

A. G. Fulton

TRANSFER AGENTS:

Crown Trust and Guarantee Company

302 Bay Street, Toronto

AUDITORS:

Glendinning, Jarrett, Gray & Roberts

C.P.R. Building, Toronto

KELWREN GOLD MINES LIMITED

REPORT OF THE DIRECTORS

To the Shareholders,
KELWREN GOLD MINES LIMITED.

Dear Sirs:

Your Board of Directors submits herewith the First Annual Report of your Company, together with audited Balance Sheet and the Consulting Engineer's Report as at December 31st, 1946.

Under an Agreement dated May 19th, 1945 Hoyle Mining Company Limited and its Associates purchased 500,000 of the Treasury Shares of your Company at 10¢ per share, and in consequence paid into the treasury $50,000 on November 30th, 1945. With these funds work was commenced on the property, and diamond drilling was started in March, 1946. Under the terms of the same Agreement Hoyle Mining Company Limited and its Associates purchased a further 200,000 of the Treasury Shares of your Company at 15¢ per share and paid into the treasury $30,000 on July 1st, 1946. These two payments provided ample money for diamond drilling to be continued on surface and, as outlined in the accompanying Consulting Engineer's Report, some considerable encouragement was met with in the drilling.

On November 12th, 1946 Hoyle Mining Company Limited and its Associates anticipated some of their options on your Company's Treasury Shares, and firmly agreed to take down 1,000,000 Shares at an average price of 24½¢ per share to provide a further $245,000 for the development of your property.

At this time and when these funds were arranged for, upon the advice of your Engineers it was decided to launch a program of underground development work. The construction of a mining plant was commenced at the end of the year. The acquisition of a hoist, compressor, transformers, and other vital equipment was facilitated by Hoyle Mining Company Limited arranging to provide these items at a considerable saving to your Company in capital outlay.

As at December 31st, 1946, as shown in the Balance Sheet accompanying this Report, your Company had $16,174.07 in cash, but ample funds are being provided by Hoyle Mining Company Limited and its Associates each month by their firm undertaking to purchase 1,000,000 shares at 24½¢. There will be paid into the treasury $227,500 on the foregoing commitment by January 1st, 1948.

On behalf of the Board

J. M. CUNNINGHAM-DUNLOP

President

TORONTO, Ontario
March 17, 1947.

EXHIBIT 'A'

KELWREN GOLD MINES LIMITED

BALANCE SHEET

AS AT 31st DECEMBER 1946

ASSETS

CASH IN BANK	$ 16,174.07
PREPAID INSURANCE	198.48
MINING PROPERTIES	162,355.00
BUILDINGS, MACHINERY AND EQUIPMENT	4,540.80
DEFERRED DEVELOPMENT EXPENSES - (per Exhibit 'B')	68,369.65
ORGANIZATION EXPENSES	3,367.00
	$ 255,005.00

LIABILITIES

CAPITAL STOCK:

Authorized - 4,000,000 Shares of No Par Value Issued - 2,375,005 Shares of No Par Value	$ 255,005.00
Note: 1,624,995 Shares under Option to Hoyle Mining Company Limited @ 17½¢ to 55¢ per Share	$ 255,005.00

AUDITORS' REPORT

We have examined the books and accounts of Kelwren Gold Mines Limited from date of incorporation, 9th May, 1945, to 31st December, 1946, and certify that, in our opinion, the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the affairs of the Company according to the best of our information, the explanations given to us and as shown by the books of the Company. All our requirements as auditors have been complied with.

Glendinning, Jarrett, Gray & Roberts

Toronto, Ontario,
19th February, 1947.

CHARTERED ACCOUNTANTS
Auditors.

EXHIBIT 'B'

KELWREN GOLD MINES LIMITED

STATEMENT OF DEFERRED DEVELOPMENT

FROM DATE OF INCORPORATION, 9th MAY 1945 to 31st DECEMBER 1946

DEFERRED DEVELOPMENT EXPENSES:

Diamond Drilling		$ 49,700.82
General Expense at Property:		
Fire Insurance	$ 207.52	
Salaries and Wages	5,281.88	
Supplies	159.23	
Surveying	415.37	
Trucking	582.11	6,646.11
Administrative and Engineering Expenses:		
Office and Engineering Services	$ 5,498.58	
Geological Mapping	1,954.22	
Travelling Expenses	1,230.19	
Telephone and Telegraph	181.22	
Municipal and Acreage Taxes	603.34	
Licenses, Filing and Recording Fees	194.70	
Legal, Stock Listing and Membership Fees	1,470.00	
Transfer Fees and Sundry Expenses	1,075.41	
	$ 12,207.66	
Less: Non-Operating Revenue: Bank Interest Received	184.94	12,022.72
Total Deferred Development Expenses for Period (Per Exhibit 'A')		$ 68,369.65

KELWREN GOLD MINES LIMITED

Report of the Consulting Engineer

To the President and Directors,
Kelwren Gold Mines Limited .

Gentlemen:

Following is my report on operations at your property in Hislop Township, District of Cochrane, Northern Ontario, up to December 31st, 1946.

In the late fall of 1945 it was decided to rehabilitate the two bunk houses and the cookery. These buildings had fallen into a state of disrepair during the years the property was unprotected. They were repaired for their original purpose, except one bunk house which was made into a combined office and core shed.

A drilling contract was let, and drilling commenced in March, 1946. The drill holes were numbered from 46 and, to the end of the year, 34 holes with an aggregate length of 18,438 feet were drilled. All the likely-looking core was split, and more than 2,000 samples were sent for assay. Most of the core is of "A" size, although for a time, when a second drill was working, some "E" core was drilled. Core which was not sent for assay is stored at your property.

As far as our present knowledge goes, there appear to be three potential ore bodies - the Shaft ore body, the East ore body and the West ore body. The overall distance between their extremes is approximately 3,500 feet. Following are the drilling results with important intersections detailed.

EAST ORE ZONE

Hole#	Footage	Width	Values
59	675.6-683.5	7.9'	$ 7.37
65	251.5-325.4	73.9'	8.96
67			Low only
69	158.5-170.0	11.5'	10.95
	238.9-253.0	14.1'	6.86
	283.0-297.7	14.7'	4.96
	307.3-317.0	9.7'	14.10
70			Low only

EAST ORE ZONE (cont'd)

Hole#	Footage	Width	Values
72			Low only
74			" "

Holes 51, 55 and 56 were drilled off the zone for geological information, and returned some low scattered values.

SHAFT ZONE

Hole#	Footage	Width	Values
46	215.0-225.0	10.0'	$15.58
47	265.0-285.0	20.0'	10.85
	438.0-446.0	8.0'	14.28
	479.0-499.0	20.0'	8.90
48	137.0-167.0	30.0'	36.85 (Uncut)
	226.0-231.0	5.0'	9.10
49	335.0-360.5	25.5'	12.97 (Uncut)
50			Low only
52			" "
53			" "
54	285.0-300.0	15.0'	6.42
57			Low only
58	411.9-419.5	7.6'	8.44
	517.5-545.4	27.9'	7.77
60			Low only
61			" "
63			" "
64			" "
66			" "

SHAFT ZONE (cont'd)

Holes 62 and 68 were drilled off the zone for geological information, and returned a few low scattered values.

WEST ORE ZONE

Hole #	Footage	Width	Values
71	154.5-169.0	14.5'	$ 5.31
73	90.1-104.5	14.4'	9.14
75	120.2-136.7	16.5'	3.74
76	390.0-399.8	9.8'	7.70
	463.0-478.0	15.0'	6.96
79	102.5-117.7	15.2'	21.38 (Cut)

Holes 77 and 78 were drilled off the zone for geological information, and returned only low scattered values.

In all cases, gold was taken at $35 per ounce.

In addition to the above, there were many other lower values which, on dip or strike, might make ore.

No attempt to estimate tonnage has been made. In the main, drilling has been carried out along the length of the Break, and only a few deeper holes have been put down under found ore. These were in the shaft ore body, and proved the downward extension of the ore.

As a decision was reached in November to go underground, plans for this program were started at once, and a small crew began sheathing in the headframe and putting up a few buildings. The accumulation of necessary plant was commenced, and arrangements for power and telephone services got underway. It might be remarked here that the fifty-foot headframe is sound, and it is believed that the shaft timbers will be found to be in good condition.

Respectfully submitted,

D. J. LUDGATE, Consulting Engineer

Haileybury, Ontario
March 15, 1947

KELWREN GOLD MINES LIMITED

Supplementary Report of the Consulting Engineer

To the President and Directors,
Kelwren Gold Mines Limited.

Gentlemen:

In order that you may be brought up to date, the following work has been done on your property since the beginning of the year.

Construction

A combination bunk house, ware-house and office, two stories, 28' by 40', is 30% complete.

A steel shop - machine shop, 30' by 30', is 75% complete.

A mine dry, 24' by 30', is 50% complete.

A power house, 26' by 40', is 75% complete, but the foundations for the compressor and hoist are awaiting warmer weather before being poured.

The sheathing-in of the headframe is 75% complete.

The compressor, hoist and sundry other pieces of equipment have been brought to the property.

All buildings are of sturdy frame construction and are so designed that additions or extensions can be made readily and economically.

Work has been retarded to some extent by the exceptionally stormy weather of this winter.

Diamond Drilling

EAST ORE ZONE

Hole#	Footage	Width	Values
84			Low only
85	231.6-236.0	4.4'	$ 9.56
86	325.0-342.0	17.0'	9.35
87	74.0- 78.0	4.0'	8.40

SHAFT ZONE

No drilling done.

WEST ORE ZONE

Hole#	Footage	Width	Values
80	413.0-415.0	2.0'	$24.85
81			Low only
82			" "
83			" "

Hole #88 is now being drilled in the East Zone.

Respectfully submitted,

D. J. LUDGATE, Consulting Engineer

Haileybury, Ontario
March 15, 1947

Second Annual Report

of

KELWREN GOLD MINES LIMITED

FOR THE FISCAL YEAR ENDED
DECEMBER 31st
1947

KELWREN GOLD MINES LIMITED

Incorporated under The Ontario Companies Act

Officers:

D. G. H. WRIGHT - - - - - - - - - - *President*
W. S. MORLOCK, K.C. - - - - - - - - - *Vice-President*
FRANK C. SULLIVAN - - - - - - - - - *Secretary-Treasurer*
A. G. FULTON - - - - - - - *Assistant Secretary-Treasurer*

Directors:

D. G. H. WRIGHT
Toronto, Canada

W. S. MORLOCK, K.C.
Toronto, Canada

E. M. MILLER
Toronto, Canada

T. R. ROWE
Kirkland Lake, Canada

A. G. FULTON
Toronto, Canada

Transfer Agents:

CROWN TRUST COMPANY
Toronto, Canada

Bankers:

IMPERIAL BANK OF CANADA
Toronto and Matheson, Canada

Auditors:

GLENDINNING, JARRETT, GRAY & ROBERTS
Toronto, Canada

Head Office:

2810 - 25 KING STREET WEST
Toronto, Canada

Location of Mine and Works:

HISLOP AND GUIBORD TOWNSHIPS
ONTARIO, CANADA

POSTAL ADDRESS
HOLTYRE P.O., VIA RAMORE, ONTARIO, CANADA

Manager:
D. J. LUDGATE
Holtyre, Ontario

Superintendent:
W. W. WESTAWAY
Holtyre, Ontario

Annual Meeting:

TUESDAY, MARCH 9TH, 1948, 2.30 P.M.
Private Dining Room No. 8
Royal York Hotel, Toronto, Canada

KELWREN GOLD MINES LIMITED

Report to Shareholders

To the Shareholders of
Kelwren Gold Mines Limited:

Your directors herewith submit, with their approval, the Company's Balance Sheet and Statement of Deferred Development for the fiscal year ended December 31st, 1947, certified by the auditors of the Company.

No change has taken place in the authorized capital of the Company which is 4,000,000 shares, no par value. There are issued 3,230,005 shares, and 220,000 shares of treasury stock have been subscribed for at prices ranging from 32½ cents to 35 cents per share; also 549,995 shares of treasury stock are under option at prices ranging from 50 cents to 73 cents per share.

Bound with this report you will find the Annual Report of the Company's consultant on the operations carried out at the mine during the period under review together with, for the sake of completeness, a reproduction of his report for the previous year which includes a summary of diamond drilling for the period from incorporation to December 31st, 1946. The labour situation reflected the generally unsettled conditions prevailing throughout the world but no strikes occurred during the year. Improvement was noticeable in the closing month of the year. Due to unsettled labour conditions and supply shortages, hydro-electric power was not available until mid-July, 1947, consequently underground operations were only possible for about five months of the year, and lateral work was only slightly in excess of 700 lineal feet. Upwards of 30 percent of this was in ore of average Porcupine Camp grade, viz: slightly better than nine dollars per ton, gold at $35.00 per ounce. As the habits of ore occurrence are more fully understood, judging from the splendid results obtained from the Company's diamond drilling as well as results previously obtained, there is every reason to anticipate a material increase in the percentage of lateral work in ore during the ensuing year while your property is in the development stage.

It is with profound regret that your directors report that due to the pressure of other work, global in extent, the Company's former president, Mr. J. M. Cunningham-Dunlop, felt obliged to tender his resignation as president and director of the Company. The Board of Directors wish to pay tribute to Mr. Cunningham-Dunlop's successful efforts in providing monies to the treasury for the development of your properties during a most difficult period. His resignation was accepted with sincere regret.

Your directors wish to record their appreciation of the good services rendered by the consultant (now manager), Mr. D. J. Ludgate, and the mine superintendent, Mr. W. W. Westaway, as well as the services rendered by Mr. J. D. Burgess and Mr. F. C. Sullivan of Hoyle Mining Company staff as general superintendent and secretary, respectively, for your Company.

Respectfully submitted on behalf of the Board,

Dated at Toronto, Canada
February 23rd, 1948.

DOUGLAS G. H. WRIGHT,
President.

KELWREN GOLD MINES LIMITED

Incorporated under The Ontario Companies Act

Balance Sheet

AS AT 31st DECEMBER, 1947

ASSETS

CURRENT ASSETS:			
Cash on Hand and in Banks		$ 17,130.01	
Accounts Receivable		312.42	
Dominion of Canada Bonds on Deposit with Hydro Electric Commission (at cost)		8,390.00	
Prepaid Insurance, Telephone Rental, etc.		1,414.99	$ 27,247.42
SUPPLIES			9,826.22
FIXED ASSETS:			
Mining Properties		$162,355.00	
Buildings, Machinery and Equipment		92,041.95	254,396.95
DEFERRED CHARGES:			
Incorporation Fees and Expenses		$ 3,367.00	
Deferred Development:			
Balance at 31st December, 1946	$ 68,369.65		
Add: Additions during year (Exhibit "B")	119,047.10	187,416.75	190,783.75
			$482,254.34

LIABILITIES

CURRENT LIABILITIES:		
Accounts Payable	$ 11,631.50	
Payroll Payable	2,742.84	$ 14,374.34
CAPITAL STOCK:		
Authorized—		
4,000,000 Shares of No Par Value.		
Issued—		
3,230,005 Shares of No Par Value		467,880.00
		$482,254.34

NOTE: (1) 220,000 Shares of treasury stock have been subscribed for at prices ranging from 32½c to 35c per share.

(2) 549,995 Shares of treasury stock are under option at prices ranging from 50c to 73c per share.

AUDITORS' REPORT

We have examined the books and accounts of Kelwren Gold Mines Limited for the year ended 31st December, 1947, and report that, in our opinion the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the state of the affairs of the Company according to the best of our information, the explanations given to us and as shown by the books of the Company. All our requirements as auditors have been complied with.

Toronto, Ontario
6th February, 1948.

GLENDINNING, JARRETT, GRAY & ROBERTS,
Chartered Accountants, Auditors.

KELWREN GOLD MINES LIMITED

Incorporated under The Ontario Companies Act

Statement of Deferred Development

FOR THE YEAR ENDED 31st DECEMBER, 1947

MINE OPERATING COSTS:		
Diamond Drilling — Surface	$ 10,946.21	
Diamond Drilling — Underground	3,303.46	
Shaft Sinking	21,080.86	
Stations and Sumps	5,904.58	
Drifting and Cross Cutting	20,186.99	
Dewatering Shaft	559.74	$ 61,981.84
GENERAL EXPENSE AT PROPERTY:		
Fire Insurance	$ 1,614.96	
Fire Protection and Watchman	4,704.74	
Roads and Yards	6,893.19	
Dry House, Bunk House and Cookery	5,840.09	
Heating	1,356.44	
Workmen's and Solicosis Compensation and Unemployment Insurance	2,587.33	
Trucking	1,669.16	
Sundry	2,048.31	26,714.22
ADMINISTRATIVE AND ENGINEERING EXPENSE:		
Management and Office Salaries and Expense	$ 11,446.09	
Engineering Salaries and Expense	9,899.29	
Geological Services and Expense	2,564.72	
Travelling	2,977.87	
Telephone and Telegraph	819.17	
Municipal and Acreage Taxes	312.74	
Warehouse Salaries and Expense	642.65	
Audit Fees and Expenses	243.71	
Postage and Stationery	516.27	
Filing and Stock Listing Expense	317.02	
Transfer Fees and Taxes	766.98	
	$ 30,506.51	
Less: Non-Operating Revenue		
Bank Interest Received	$ 145.28	
Bond Interest Received	10.19	155.47	30,351.04
TOTAL DEFERRED DEVELOPMENT EXPENSES FOR THE YEAR (Exhibit "A")		$119,047.10

KELWREN GOLD MINES LIMITED

Report of Consulting Engineer

FOR THE YEAR ENDING DECEMBER 31, 1947

To the President and Directors,
Kelwren Gold Mines Limited.

GENTLEMEN:

Following is my report on operations at your property in Hislop Twp., District of Cochrane, Northern Ontario, for the year ending December 31, 1947.

History

Your property was first drilled in 1934 by the McIntyre Porcupine Mines when that company was holding an option on the six central claims of Torovic Gold Mines and six other adjoining claims of Vindur Porcupine Gold Mines. McIntyre did approximately 13,000 feet of drilling in 45 holes. Some very good intersections and values were found.

McIntyre dropped its option in January, 1936, and in December, 1938, Kelrowe Gold Mines was formed from an amalgamation of Torovic and Vindur. Work got under way the next year and the shaft was sunk to 320 feet. Levels were established at 80, 180 and 300 feet below the collar. 373 feet of crosscutting and drifting were done on the 80-ft. level and 654 feet on the 180-ft. level. The station was cut out on the 300-ft. level. 4,914 feet of underground drilling were done on the three levels. Results in general were encouraging but with the war well underway the operations were suspended in June, 1940.

In 1945 your present company was formed as the result of an amalgamation of Kelrowe Gold Mines and Wren Gold Mines. This latter company owned five adjoining claims to the south of Kelrowe. In addition four claims in adjoining Guibord Township were acquired from Hoyle Mining Company. Your property, therefore, comprises the equivalent of 21 mining claims.

Exploration work in the form of surface diamond drilling was started in March, 1946, and the results are detailed in the writer's report for that year which accompanied the first annual Kelwren report as of December 31, 1946.*

Construction

Buildings as detailed below were erected. They are all of sturdy frame construction and in the cases of the machine shop and dry are so designed that they may be added to or extended with a minimum of expense.

Combination bunk-house, office and warehouse with usable basement, two storeys—28′ x 40′.
Steel sharpening and machine shop—30′ x 30′.
Mine Dry—24′ x 30′.
Power and hoist house—26′ x 40′.
Water tank on 40′ legs—15,000 gallons.
Boiler house—16′ x 20′.
Powder magazine—12′ x 16′.
Pipe boxes to carry the necessary water, steam and return water pipes to the plant buildings.
Ore and waste bins of 40 tons capacity each were added to the front of the headframe.
The original headframe skeleton was sheathed in.
Some additional work was done to improve the old bunk houses and cookery.

Construction was retarded somewhat by rough and stormy weather during last winter. Some delay was experienced in getting the Hydro line from Holtyre under way and the Hydro people in turn were later impeded by heavy spring rains. The mile and a half line traverses low swampy ground and during the month of June it was impossible to work under the flooded conditions. Consequently power was not turned on till the middle of July, 1947.

* Reproduced on pages nine and ten.

Surface Equipment

The double drum 24" x 36" hoist, the 1,000 cfm compressor, the 3-200 KVA transformers and the steel sharpener are on rental from Hoyle and its subsidiary companies. The shaft is equipped with two new aluminum alloy cages. A stoker fed boiler provides low pressure steam heat for all buildings.

Underground

After the shaft was dewatered and other arrangements completed sinking got under way on August 2nd. The usual labour difficulties slowed down progress particularly towards the end of the job. However the excavation was carried down 155′ to 475′ below the collar and a roomy station established at 450′.

As the nearest surface water supply is the Pike River some 3,000′ to the northeast it was decided to use the workings on the 180′ level as a storage pond. Dams were put in and the natural seepage from above the level is caught. So far the supply has been ample for the operation.

A new 100 gpm triplex pump takes care of all mine water from the sump below the 450′ level.

450′ Level

Crosscutting from the station southeasterly to the syenite carbonate contact was started in mid-October and values were encountered, principally in the carbonate, as soon as that formation was reached. This crosscut was directed to the area under values found in surface hole 47 but as only low values showed up work was shifted to drifting east and west along the syenite-carbonate with the major portion of the drifts being kept in the carbonate. Values persisted for a distance of 90′ west of the crosscut. To the east commercial values dried up but diamond drill holes put up from the drift and from the extension of the cross-cut indicated the continuation of the ore a few feet above the drift back. Good values were found for a distance of over 100 feet. The total length of the ore is better than 190 feet, average width between 10 and 11 feet and cut grade .27 ozs./ton.

300′ Level

Work on this level was started in November in the form of a crosscut which was swung sharply to the south to get into the carbonate zone as quickly as possible. Some marginal values were encountered near the contact. Drifting to the east was directed to intersect some low values found in surface holes 46 and 48 and out in the carbonate. Some values were had in the mucks and in face samples but they did not check as closely as in work done on the 450′ level.

The following tabulations summarize the year's work:

Surface Diamond Drilling

East Ore Zone

Hole No.	Footage	Core Length	Values
84	.....	.....	Low only
85	231.6-236.0	4.4	$ 9.56
86	325.0-342.0	17.0	9.35
87	74.0-78.0	4.0	8.40
88	.....	.....	Low only

West Ore Zone

Holes 81, 82 and 83 in this zone returned low values only.

Surface drilling was stopped in March at which time 3,443 feet had been drilled. In 1946 drilling amounted to 18,438 feet and the total amount done by the present company is 21,881 feet.

Underground Diamond Drilling

300-ft. Level

Hole No.	Inclination	Footage	Core Length	Values
301-A	—67 deg.	.....	.....	Low only
302-A	—42 deg.	.....	.....	Low only
303-A	—56 deg.	68.0-88.0	20.0	$ 5.25
		122.6-127.6	5.0	25.55

450-ft. Level

Hole No.	Inclination	Footage	Core Length	Values
401	Flat	.....	.....	Low only
402	Flat	.....	.....	Low only
403	Flat	14.4-28.7	14.3	$ 3.85
		35.3-40.3	5.0	4.20
		55.3-58.0	2.7	14.35
404	Flat	.....	.....	Low only
405	Flat	.....	.....	Low only
406	Flat	.....	.....	Low only
407	up 67-40	10.0-70.4	60.4	$11.69
408	Flat	120.0-125.0	5.0	14.35
409	up 82 deg.	20.0-58.7	38.7	5.20
410	up 60 deg.	.....	.....	Low only
411	up 65 deg.	14.0-50.0	36.0	$17.32
412	Flat	.....	.....	Low only
413	up 50 deg.	15.0-40.1	25.1	$11.23
		68.3-93.3	25.0	6.65
414	—64-37	82.6-92.6	10.0	4.02
415	Flat	.....	.....	Low only
416 (0 to 30')	Flat	.....	.....	Low only

Total underground diamond drilling amounts to 1,974 feet.

Shaft Work

Total distance sunk (320-475) ..... 155 feet
Station excavation ..... 9,672 cu. ft.

Drifting and Crosscutting

Level	Drifting	Crosscutting	Total
300'	82.0	61.0	143
450'	396.0	168.0	564
	478.0	229.0	707

General

Your plant has functioned satisfactorily since it was put into operation and there have been no major delays due to failure of equipment.

Hislop Twp. has been included in a municipality which for organization purposes is known as Black River Township. The township through its officers and particularly its roads department has been very co-operative in improving the roads leading to your property and in providing materials for the main road on your property.

There has been a marked improvement in the labour situation in recent weeks and turn-over, which in the fall was very high, is now practically negligible.

It is a pleasure to acknowledge the diligent efforts put forth by your staff and all employees who have been responsible for bringing construction and development along to its present position.

Respectfully submitted,

D. J. LUDGATE.

Holtyre, Ontario
February 16, 1948.

KELWREN GOLD MINES LIMITED

Report of the Consulting Engineer

For the Period from Incorporation to December 31st, 1946

To the President and Directors,
Kelwren Gold Mines Limited.

GENTLEMEN:

Following is my report on operations at your property in Hislop Township, District of Cochrane, Northern Ontario, up to December 31st, 1946.

In the late fall of 1945 it was decided to rehabilitate the two bunk houses and the cookery. These buildings had fallen into a state of disrepair during the years the property was unprotected. They were repaired for their original purpose, except one bunk house which was made into a combined office and core shed.

A drilling contract was let, and drilling commenced in March, 1946. The drill holes were numbered from 46 and, to the end of the year, 34 holes with an aggregate length of 18,438 feet were drilled. All the likely-looking core was split, and more than 2,000 samples were sent for assay. Most of the core is of "A" size, although for a time, when a second drill was working, some "E" core was drilled. Core which was not sent for assay is stored at your property.

As far as our present knowledge goes, there appear to be three potential ore bodies — the Shaft ore body, the East ore body and the West ore body. The overall distance between their extremes is approximately 3,500 feet. Following are the drilling results with important intersections detailed.

East Ore Zone

Hole No.	Footage	Width	Values
59	675.6-683.5	7.9′	$ 7.37
65	251.5-325.4	73.9′	8.96
67	.....	.....	Low only
69	158.5-170.0	11.5′	$10.95
	238.9-253.0	14.1′	6.86
	283.0-297.7	14.7′	4.96
	307.3-317.0	9.7′	14.10
70	.....	.....	Low only
72	.....	.....	Low only
74	.....	.....	Low only

Holes 51, 55 and 56 were drilled off the zone for geological information, and returned some low scattered values.

Shaft Zone

Hole No.	Footage	Width	Values
46	215.0-225.0	10.0′	$15.58
47	265.0-285.0	20.0′	10.85
	438.0-446.0	8.0′	14.28
	479.0-499.0	20.0′	8.90
48	137.0-167.0	30.0′	36.85 (Uncut)
	226.0-231.0	5.0′	9.10
49	335.0-360.5	25.5′	12.97 (Uncut)
50	———	———	Low only
52	———	———	Low only
53	———	———	Low only
54	285.0-300.0	15.0′	$ 6.42
57	———	———	Low only
58	411.9-419.5	7.6′	$ 8.44
	517.5-545.4	27.9′	7.77
60	———	———	Low only
61	———	———	Low only
63	———	———	Low only
64	———	———	Low only
66	———	———	Low only

Holes 62 and 68 were drilled off the zone for geological information, and returned a few low scattered values.

West Ore Zone

Hole No.	Footage	Width	Values
71	154.5-169.0	14.5′	$ 5.31
73	90.1-104.5	14.4′	9.14
75	120.2-136.7	16.5′	3.74
76	390.0-399.8	9.8′	7.70
	463.0-478.0	15.0′	6.96
79	102.5-117.7	15.2′	21.38 (Cut)

Holes 77 and 78 were drilled off the zone for geological information, and returned only low scattered values.

In all cases, gold was taken at $35 per ounce.

In addition to the above, there were many other lower values which, on dip or strike, might make ore.

No attempt to estimate tonnage has been made. In the main, drilling has been carried out along the length of the Break, and only a few deeper holes have been put down under found ore. These were in the shaft ore body, and proved the downward extension of the ore.

As a decision was reached in November to go underground, plans for this program were started at once, and a small crew began sheathing in the headframe and putting up a few buildings. The accumulation of necessary plant was commenced, and arrangements for power and telephone services got underway. It might be remarked here that the fifty-foot headframe is sound, and it is believed that the shaft timbers will be found to be in good condition.

Respectfully submitted,

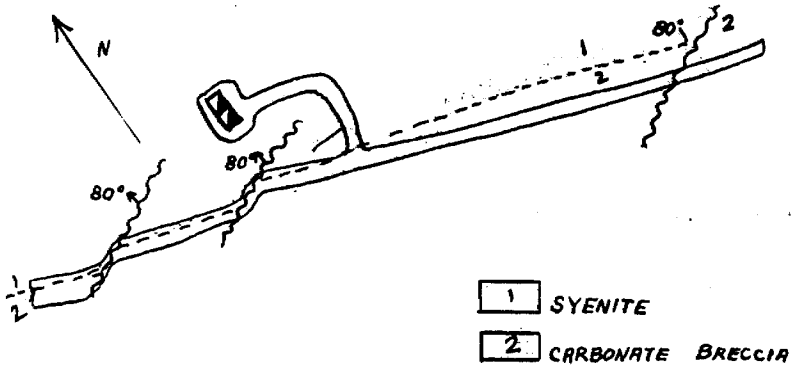
Haileybury, Ontario
March 15, 1947

D. J. LUDGATE,
Consulting Engineer.

KELWREN MINES LTD

Hislop Township

Notes on examination of underground at the Kelwren property in Hislop township, with D. J. Ludgate and Wit Westaway.



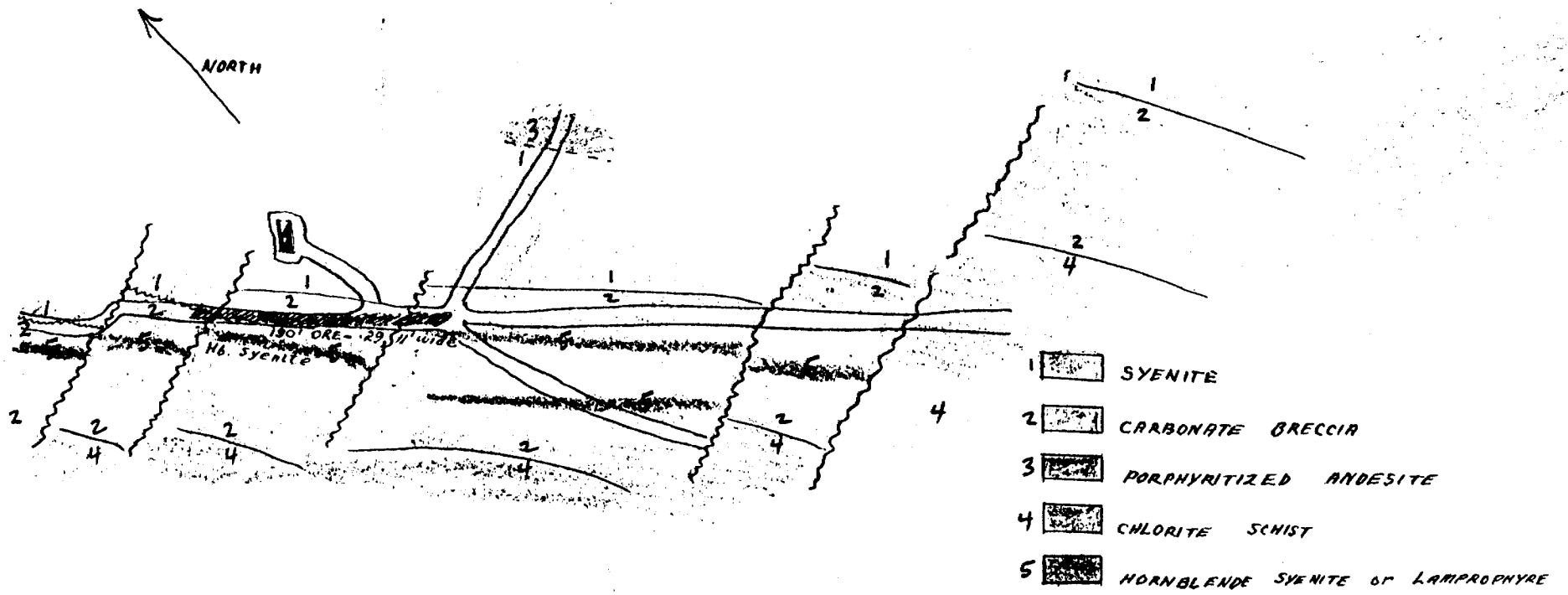
300-Foot Level

Workings on the 300-foot level are not as extensive as those on the 450-foot level. To the northwest of the shaft, the drift is 50 to 100 feet long, following the syenite-carbonate breccia contact.

To the east the drift is entirely in carbonate breccia to the face or about 200 feet.

The contact between syenite and carbonate breccia is a well defined, frozen contact and it is displaced by a series of left-hand faults of small displacement. Strong fluting and grooving suggest that movement on these faults was practically horizontal. Strike of the faults is about N. 70° E. and dip is practically vertical, favouring the ~~west~~ north slightly.

The syenite-carbonate breccia contact strikes northwest to southeast and dips steeply north.



KELWREN MINES LTD

HISLOP TOWNSHIP

450-FOOT LEVEL.

T-74

The syenite is a coarse-textured rock consisting largely of feldspar and might be classed as anorthosite. albitite by thin section. Close to its contact with the breccia for about 20 feet, it is generally finer textured and brick-red in colour as compared to a purplish pink colour in general.

The carbonate breccia is a variable rock ranging from chloritic to felsitic. It is probably a fracture breccia and in less altered phases consists of greyish, angular carbonate fragments in a black, chloritic matrix. In more altered areas it is selectively replaced and reddened by feldspathic material which forms stringers and patches and which has replaced many of the fragments. The matrix in the more altered zones is generally a grey carbonate rock, with some silicification and pyrite mineralization. Occasional large rounded fragments of syenitic material, similar to the adjoining coarse syenite may be seen. These suggest that the breccia was formed subsequent to the syenite intrusion. Later changed this idea, as cylindrical intrusions of syenite can be seen in back walls, cutting the east.

The pink feldspathic fragments and alteration in the breccia seem to have their origin in narrow dykes of pink, felsitic lamprophyre or basic syenite, paralleling the main syenite body. This rock in its coarser phases, is a hornblende syenite, but in narrow dykes and on the margins of larger ones, is a felsite.

The sections of breccia carrying best values have the largest amount of pyrite, but it is not possible visually to determine ore from waste.

On the 300-foot level, most of the breccia is only moderately altered and silicified and is the type with grey, angular fragments

in a dark chloritic matrix. Some values were obtained east of the shaft, which would fit in with the theory of a north-west pitch of the 450 ore.

450-Foot Level

More work has been done on the 450-foot level than on the 300. Besides the work in the carbonate-breccia, a drive is being run north-easterly into the porphyritized andesite where values were obtained in surface drilling. This drive is through the syenite and into the porphyritized andesite, but has not reached the zone of values.

The main drive east is being run as a line drive to the area about 1200 feet east of the shaft, where values were obtained from surface drilling. It is in the carbonate breccia for most of its distance, following the syenite contact at its start. However, cross-faulting, as described on the 300-foot level, moves the carbonate breccia farther north, and finally throws the chloritic schist lying south of the breccia into the line of the drive. As a result, about 150 feet of drifting is in the soft, schistose rock, but it is expected that the strike of the breccia will carry it back into the drive.

The 450-foot level station is in coarse, feldspathic syenite and the crosscut south is in the same for 40 or 50 feet. As it approaches the carbonate contact, the syenite for about 20 feet becomes finer textured and brick-red in colour.

The porphyritized andesite in the north cross-cut is a striking looking rock with numerous streaks and patches of red, jasperoidal alteration and dykelets of red felsite.

The alteration appears to originate in dykes of hornblende syenite

T-74

or lamprophyre, which cut the volcanics quite frequently. On the 80 foot level values in this material showed no continuity.

A drift diverging to the southeast from the main line drive has been driven to investigate values encountered in the carbonate-breccia in hole 47. This drift did not encounter values, but diamond drill holes drilled upward at 60 degrees did encounter good values 50 to 60 feet above the level. Values on the level do not extend far east of the station crosscut, but they extend west for over 100 feet. This section is said to grade 0.29 ounces over 11 feet in width, for 119 feet in length. The 0.29 is from face and chip samples which check very well, but the 11 foot width includes values in test holes, which may be misleading. Including a short low-grade zone, the ore length is 190 feet of 0.25 ounce. (later revised).

The indicated pitch from drilling up and down is about 45 degrees west. Values are almost exclusively in the carbonate-breccia, but there are a few intersections in drilling within the syenite, near the contact. Pyrite is the only important sulphide mineral. Extremely fine visible gold has been noted, but it cannot be seen without the aid of a lens.

One of the best sections of values is in a chloritic breccia, mineralized with disseminated pyrite and squeezed in between the coarse syenite on one wall and a felsitic hornblende-syenite dyke on the other.

The hornblende syenite has inclusions of coarse syenite in it, but is not seen actually cutting the coarse syenite.
In N. X-cut pink syenite cuts basic hb. syenite.

Drilling south from the west drift has picked up a parallel zone of values about 10 to 20 feet in the wall.

Nelson Hogg

Nelson Hogg,
Resident Geologist.

Timmins, Ontario
February 4, 1948

BY N. Hogg
Resident Geologist
1948

X-14

KELWREN MINES LTD.

Hislop Township

Notes on an examination of the Kelwren Mines Ltd. 450' level, with D. J. Ludgate and W. W. Westaway.

Drift west of shaft is stopped about 250 feet west as at previous visit, but a slash has been taken south about 75 feet west of the shaft, preparatory to crosscutting to the values indicated by drilling south of the lamprophyre dyke. The slash exposes the full width of the lamprophyre dyke, which at this point is a reddish, biotite lamprophyre, about 4 feet wide. It has clean cut walls and certainly the suggestion is that it is a post-ore feature. Values carry up to both walls, but the lamprophyre is completely barren.

The drift east is about 550 feet east of the shaft and has passed back into carbonate breccia from the chloritic schist. It also passes through the carbonate breccia and for a short distance follows the syenite-carbonate breccia contact. The lamprophyre dyke is also along the contact at this point and in the face can be clearly seen to be cutting the red syenite. It has chilled, bleached margins for about four inches, and has syenite on both walls.

The drive is being changed to a southeast direction as surface drilling indicates a change in strike of the syenite at this point.

The chloritic schist, near its contact with the carbonate-breccia, has fragments of white carbonate, and occasionally pink feldspathic material, which decrease in number away from the contact. The carbonate-breccia also has zones in which the matrix is chloritic, and this breccia-schist contact is, in general, gradational. It suggests a schist with a marginal brecciated zone which has been

altered by the syenite and by hydrothermal solutions.

In the crosscut through the porphyritized andesites, driven N. 56° E. through the syenite, the advance is about 230 feet. This includes 85 feet of reddish to purple syenite from the main drift, and 125 feet through reddish porphyritized volcanics. The face is in coarse, green andesite, with a fault contact striking east-west. This fault projects through the northeast corner of the 450-foot station and joins another strong fault mapped in the west drift.

In the main drive east the chlorite schist passes into breccia at a fault contact, striking about S. 40° E. It is a senuous type of fault in strike and apparently not strong.

Faulting, in general, underground is N. 65° E. to east-west.

Nelson Hogg

Nelson Hogg,
Resident Geologist.

Timmins, Ontario
February 25, 1948.

KELWREN MINES LTD.
Hislop Twp.

T-44

Levels are at 80', 180', 300', and 450'.

Examination of 80 ft. level and station at 450 ft. level was made with Wit Westaway. 180 ft. level has the most extensive workings, but is dammed off and used as a sump.

The shaft and station at 80 ft. are in purplish, hard, dense, syenitized lava, similar to much of the surface outcrop. The nature of the syenitization can be readily seen, as the lavas have irregular patches and lenses of red, rather coarse, syenitic material, scattered indiscriminately throughout. There are also a few well defined dikelets, but these do not appear to have great continuity.

The basic hornblende syenite cuts the syenitized volcanics and it also has irregular zones and dykes of the red syenite. This basic syenite has always been considered younger than the coarse syenite with which the ore is connected, yet these small irregular lenses are in many ways like the ore syenite. No place was seen where the basic syenite is in contact with the main body of ore syenite. The basic syenite is a grey to red, rather fine textured rock, with a good proportion of somewhat chloritized hornblende. Near its contact with the volcanics, the latter have patches of similar material and the contact is quite obscure. It must have played some part in the process of syenitization, though the red syenite apparently was more effective.

The main syenite body on the 80 ft. level appears to be made up of 3 distinct components, all rather coarse-textured and feldspathic. On the north side is a width of 20-30 ft. of purplish coloured, feldspathic syenite with no ferromagnesian minerals. The purple feldspar Xtals are large, up to more than ½ inch in diameter.

This purple syenite has a sharp contact with a parallel body of grey to light pink feldspathic syenite of comparable texture. The purple variety shows a fine grained margin and is probably a later intrusion, though the two rocks are very similar. Values are reported on the assay plan in the grey syenite but none in the purple variety. The grey syenite grades to the south ~~north~~ into a red syenite with some chloritized ferromagnesian, and considerable pyrite in fractures. Its width varies a great deal, and in places the grey variety is present right to the ~~north~~ south contact with the carbonate breccia. The best values appear

to be in the red variety.

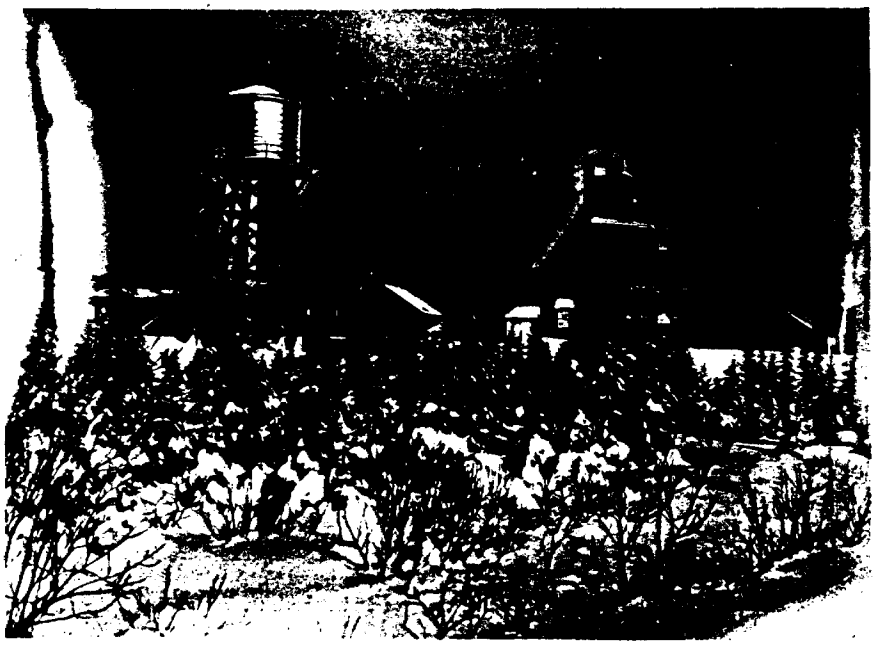
~~North~~ South of the red syenite is a fragmental called the carbonate breccia. It is a fine textured, massive, dense grey carbonate rock with fragments of feldspathic material, and grey carbonate - probably an original volcanic fragmental with later fracturing and replacements.

The red syenite ore zone on the east is cut off by a very sharp strong vertical fault, striking N40E. On the west values die out as grey syenite predominates.

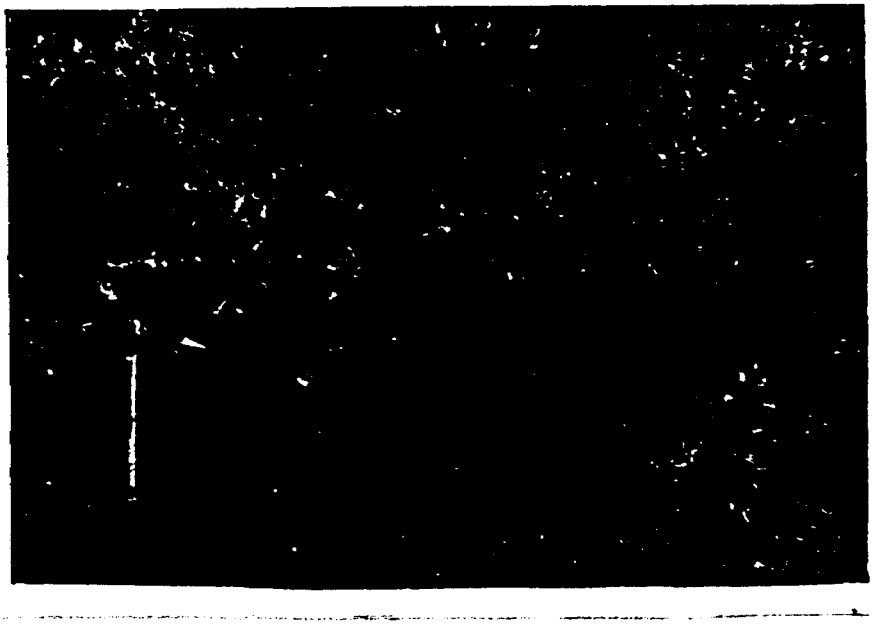
Timmins, Ontario,
September 24, 1947.

Resident Geologist.

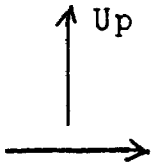
T-74



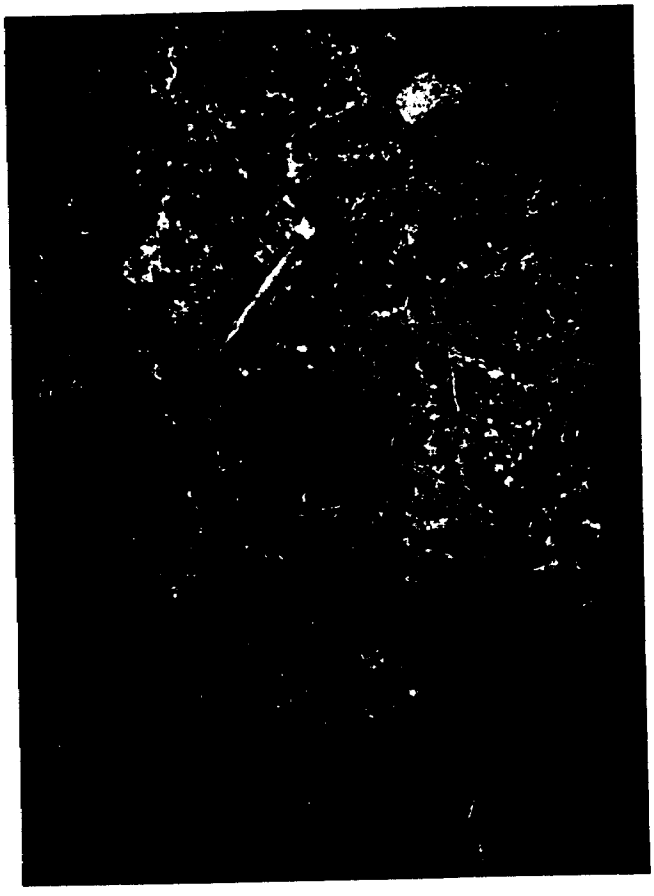
KELORE (KELWREN) GOLD MINES LIMITED
Hislop Township January 26, 1949
Mine was permitted to fill with water,
starting January 27.



Pillow Lava south of shaft
KELWREN GOLD MINES Hislop Township
Head of pick is to northwest.



Pillow lava outcrop south of
KELWREN GOLD MINES
Hislop Township
Vertical face.



KELORE GOLD MINES
Carbonate Breccia Ore
403 W. Drift
January 26, 1949

T-74

KELWREN MINES LTD.

Examination of Diamond Drill Core.

In diamond drill hole 58, values were reported in lamproplyre between 413.7 - 419.7 (.26 ounces per 5.8 feet). Examination showed that this purplish red rock is apparently a marginal phase between the normal coarse syenite and porphyritized volcanics, the normal red syenite being in a dyke at this point. The mineralized section is cut by tongues of red feldspathic material and is not like the normal lamprophyre. The values appear to be in well mineralized stringers parallel to the core.

In diamond drill hole 52, the hole ends from 402 to 643, in a grey feldspar porphyry with numerous closely packed phenocrysts, not comparable in any way to the syenite or lamprophyre. This mass was picked up in two other holes and is apparently quite wide and long at a vertical depth of 300 feet. However, shallower drilling has not picked it up.

Examination of sections carrying values in the carbonate breccia suggest that values are proportional to the amount of crushed cubic pyrite. Some sections with heavy pyrite in fine disseminated form carry only low values, but wherever coarser, cubic pyrite with crushed and fractured crystals were present, values were good.

Nelson Hogg

Nelson Hogg,
Resident Geologist.

NH:bl

Timmins, Ontario
February 26, 1948

ORIGINAL

KELWREN

ONTARIO

No 20472

DEPARTMENT OF MINES

LABORATORIES BRANCH

CERTIFICATE OF ASSAY

This is to certify that samples submitted for assay by:

Mr. Nelson Hogg, 59 Third Ave., Timmins, Ont.

gave the following results:

	GOLD OZ PER TON	GOLD VALUE PER TON	SILVER OZ PER TON	PERCENTAGE OF
~~Sample # 11~~ - Spec. "28	0.067	$ 2.34	Trace	ddh 307A - 36' } See polished sections
~~# 12~~ - Spec. "29	0.40	14.00	Trace	ddh 307A - 38' }

Fees received for above $ Department

Date Aug. 24th 1948

(D.A.Moddle)
Provincial Assayer

Except by special permission, reproduction of these results must include any qualifying remarks made by this department with reference to any sample.

2M-Sept. 1947 (B2096)

DIAMOND DRILL RECORD

Hole No. 46 Sheet No. 1

Property KELWREN PROPTERTY, Hislop & Guibord Twps.
Location
Latitude N. 5218.4
Departure E. 12371.5
Bearing South 40° West

Dip	
0	50°
100'	52°
250'	53°30'
375'	51°
525'	49°

Total Footage 526'

Elev. Collar 9991.55
Datum
Date Started March 22, 1946
Date Completed March 30, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	17.0	Casing		Feet			
17.0	49.5	Andesite - Fine grained slightly syenitized andesite.					
49.5	51.2	Porphyritized Andesite - Brecciated syenitized andesite. Alteration is related to a stringer of quartz running with the core. Fair pyrite					
51.2	185.2	Andesite - Fine grained slightly syenitized andesite. Irregular stringers of feldspar porphyry. Few small quartz stringers. Little pyrite.		5.0	.14		50 - 55
				5.0	.03		60 - 65
				5.0	.02		75 - 80
				5.0	.06		80 - 85
				5.0	.03		85 - 90
				5.0	.03		105 - 110
				5.0	.05		150 - 155
				5.0	.02		165 - 170
				5.0	.02		175 - 180
				5.0	.10		180 - 185
185.2	186.2	Andesite - Brecciated altered andesite with irregular carbonate and quartz. Fair pyrite.		1.0	.04		185.2 - 186.2
186.2	188.5	Lamprophyre - Fine grained lamprophyre					
188.5	196.0	Porphyritized Andesite - Fine grained syenitized andesite.		5.0	.04		191 - 196
196.0	207.0	Porphyritized Andesite - Porphyritized spherulitic andesite with dikes and stringers of feldspar porphyry. Fair pyrite.		4.0	.02		196 - 200
				5.0	.03		200 - 205
207.0	243.5	Porphyritized Andesite - Porphyritized spherulitic andesite with dikes and stringers of fine grained feldspar porphyry. Strong chlorite slips		5.0	.03		205 - 210
				5.0	.02		210 - 215
				5.0	.73		215 - 220

Date of Examination October 9, 1946

T.74

DIAMOND DRILL RECORD

Hole No. 46 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twp.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
100'	52°
250'	53°30'
375'	51°
525'	49°

Total Footage 526'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
207.0	243.5	(continued)					
		at a low angle to the core. Short brecciated		5.0	.16		220.0 - 225.0
		and chloritized sections. Few small quartz		5.0	.04		225.0 - 230.0
		stringers. Fair pyrite throughout. Good pyrite		5.0	.03		230.0 - 235.0
		219.0 - 225.0		5.0	.07		235.0 - 240.0
				5.0	.05		240.0 - 245.0
243.5	249.5	Porphyritized Tuff - Syenitized tuff with string-					
		ers of feldspar porphyry. Little pyrite.		5.0	.02		245.0 - 250.0
249.5	313.0	Syenite - Coarse grained syenite with some car-					
		bonatization. Little pyrite. Short inclusions of		5.0	.02		305.0 - 310.0
		brecciated carbonatized and porphyritized tuff?					
		in last ten feet.		5.0	.02		310.0 - 315.0
313.0	320.5	Porphyry - Fine grained feldspar porphyry with					
		highly porphyritized inclusions. Fair pyrite.		5.0	.03		315.0 - 320.0
320.5	326.2	Agglomerate - Brecciated, carbonatized, syenitized					
		and silicified agglomerate(?). Irregular calcite		6.2	.04		320.0 - 326.2
		stringers. Fair pyrite.					
326.2	332.5	Lamprophyre - Lamprophyre with inclusions of					
		highly altered agglomerate. This dyke makes					
		20 degrees with the core.					
332.5	336.5	Agglomerate - Same as 320.5 - 326.2 but darkened					
		by the lamprophyre. Small dyke of lamprophyre at					
		336.0		4.5	.02		332.5 - 337.0
336.5	360.8	Agglomerate - Brecciated, carbonatized, syenitized		4.0	.02		337.0 - 341.0
		and silicified agglomerate (?) Much secondary		4.0	.02		341.0 - 345.0
		calcite. Little pyrite.		5.0	.02		355.0 - 360.0

Date of Examination October 9, 1946

DIAMOND DRILL RECORD

Hole No. 46 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
100'	52°
250'	53° 30'
375'	51°
525'	49°

Total Footage 526'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
360.8	367.5	Porphyry - Highly siliceous felsitic material. This is probably a felsite dyke with inclusions of agglomerate. Little pyrite.		5.0	.08		360.0 - 365.0
				5.0	.14		365.0 - 370.0
367.5	375.0	Agglomerate - Brecciated, chloritized, syenitized agglomerate, Fair pyrite in first foot. Strong slips at a low angle to the core		5.0	.03		370.0 - 375.0
375.0	389.4	Agglomerate - Slightly talcose brecciated, carbonatized agglomerate. Fair pyrite.		4.8	.04		375.0 - 379.8) Brecciated, car-
				4.8	.02		379.8 - 384.6(bonatized, agglom-
				4.8	.005		384.6 - 389.4) erate. Fair pyrite
389.4	418.2	Talc - Talc schist with short syenitized and carbonatized sections. Little pyrite. Originally agglomerate to 398 and andesite cut by lamprophyre dykes from there on. Lost core 405.7 - 407.3		4.2	.04		389.4 - 394.2)
				4.4	.005		394.2 - 398.6 (Talc schist with
				5.0	Nil		398.6 - 403.6 (short carbonatized
				2.1	Nil		403.6 - 405.7)sections. Little py
							)rite
418.2	428.3	Lamprophyre - Medium grained, syenitized, carbonatized and silicified lamprophyre. Little pyrite		5.3	.01		418.2 - 423.5(Silicified carbona
				4.3	Nil		423.5 - 427.8(tized lamprophyre
428.3	430.5	Porphyry - Carbonatized grey feldspar porphyry with an inclusion of talc schist. Fair pyrite		2.7	.01		427.8 - 430.5 - Carbonatized lamprophyre and feldspar porphyry Fair pyrite.
430.5	466.5	Talc - Talc schist with irregular carbonate stringers. Little course pyrite. Lost core: 434.0 - 439.0: 452.8 - 466.0		3.5	Nil		430.5 - 434.0 - Talc schist. Little pyrite
466.5	471.5	Porphyry - Grey feldspar porphyry		5.5	.005		466.0 - 471.5 - Feldspar porphyry Little pyrite.
471.5	483.0	Talc - Talc schist with chlorite and carbonate. Lost core: 480.0 - 481.0					

Date of Examination October 9, 1946

DIAMOND DRILL RECORD

Hole No. 46 Sheet No. 4

Property KELWREN PROPERTY, Hislop & Guibord Twp.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
100'	52°
250'	53°30'
375'	51°
525'	49°

Total Footage 526'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Rockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
483.0	526.0	Porphyry - Grey feldspar porphyry, slightly carbonatized and pinkish in first few feet, Little pyrite. Lost Core: 485.2 - 486.7: 496.7 - 498.7: 514.7 - 516.0		2.2	.02		483.0 - 485.2 - Feldspar Porphyry
				5.0	.005		486.7 - 491.7 - Feldspar Porphyry
526.0		END OF HOLE					

SUMMARY

17.0 - 188.5 -- Andesite
188.5 - 243.5 -- Porphyritized Andesite
243.5 - 249.5 -- Porphyritized Tuff
249.5 - 313.0 -- Syenite
313.0 - 320.5 -- Porphyry
320.5 - 360.8 -- Agglomerate
360.8 - 367.5 -- Porphyry
367.5 - 389.4 -- Agglomerate
389.4 - 398.0 -- Talc (agglomerate)
398.0 - 418.2 -- Talc (Andesite)
418.2 - 430.5 -- Lamprophyre
430.5 - 483.0 -- Talc
483.0 - 526.0 -- Grey Porphyry

Date of Examination October 9, 1950

T-24

DIAMOND DRILL RECORD

Hole No. 47 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 5295.0
Departure E. 12435.8
Bearing South 40° West.

	Dip
0	50°
150'	51°30'
300'	51°30'
500'	50°

Total Footage 512'

Elev. Collar 9991.40
Datum
Date Started April 1, 1946
Date Completed April 10, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	14.0	Casing					
14.0	112.5	Andesite - Fine grained andesite with irregular stringers of syenite and short syenitized sections. Amygdules at 95 - 96					
112.5	200.0	Andesite - Amygdaloidal and spherulitic andesite with stringers of porphyry and irregular syenitization. The stringers are roughly parallel to the core. Little pyrite.		5.0	.02		190.0 - 195.0
200.0	248.5	Andesite - Slightly fractured andesite with a few stringers of porphyry and a little irregular syenitization. Little pyrite.		5.0	.02		200.0 - 205.0
248.5	255.0	Porphyritized Andesite.- Carbonatized, syenitized amygdaloidal andesite. Little pyrite.					
255.0	267.5	Andesite - Fine grained andesite with syenitized sections. Few small stringers of porphyry.		5.0	.04		260.0 - 263.0
		Little pyrite.		5.0	.46		265.0 - 270.0
267.5	285.0	Porphyritized Andesite - Syenitized andesite cut by stringers of silicified porphyry. Short		5.0	.34		270.0 - 275.0
		silicified sections. Few small quartz stringers.		5.0	.23		275.0 - 280.0
		Few chlorite slips. Fair to good fine pyrite		5.0	.21		280.0 - 285.0
		mineralization.					
285.0	290.5	Andesite - Slightly syenitized andesite. Few calcite stringers. Little pyrite.		5.0	.03		285.0 - 290.0
290.5	293.5	Porphyritized Andesite - Porphyritized andesite. Few small quartz stringers. Fair pyrite.		3.5	.08		290.0 - 293.5
293.5	296.0	Lamprophyre					

Date of Examination September 11, 1946

T-74

DIAMOND DRILL RECORD

Hole No. 47 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
150'	51°30'
300'	51°30'
500'	50°
Total Footage 512'	

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
296.0	339.0	Porphyritized Andesite - Syenitized, silicified and carbonatized andesite with numerous porphyry stringers, some brecciation. Few quartz stringers Fair pyrite. Little chalcopyrite.		4.0	.14		296.0 - 300.0
				5.0	.31		300.0 - 305.0
				5.0	.07		305.0 - 310.0
				5.0	.14		310.0 - 315.0
				5.0	.05		315.0 - 320.0
				5.0	.11		320.0 - 325.0
				5.0	.08		325.0 - 330.0
				5.0	.05		330.0 - 335.0
				5.0	.04		335.0 - 340.0
339.0	351.5	Porphyritized Andesite - Porphyritized andeiste with dykes and stringers of feldspar porphyry.		5.0	.07		340.0 - 345.0
		Few chlorite slips. Few small quartz stringers.		6.5	.06		345.0 - 351.5
		fair pyrite. Possible fault 251 - 351.5					
351.5	359.0	Porphyritized Tuff - Sheared and brecciated highly carbonatized and syenitized tuff or agglomerate.		3.5	.02		351.5 - 355.0
				4.0	.06		355.0 - 359.0
		Few small quartz stringers. Little pyrite.					
359.0	438.0	Syenite - Coarse grained slightly carbonatized feldspar porphyry First foot is finer grained		4.0	.02		387.0 - 391.0
				5.5	.03		403.5 - 409.0
		and higly carbonatized. Little pyrite.		6.0	.02		409.0 - 415.0
				5.0	.02		415.0 - 420.0
				5.0	.10		420.0 - 425.0
				5.0	.03		425.0 - 430.0
				4.0	0.05		430.0 - 434.0
				4.0	.05		434.0 - 438.0
438.0	448.0	Agglomerate - Porphyritized agglomerate and tuff,					
		some schisting and brecciation, cut by small		3.5	.15		438.0 - 441.5
		dykes of porphyry and lamprophyre. Fair pyrite.		4.5	.61		441.5 - 446.0

Date of Examination September 11, 1946

DIAMOND DRILL RECORD

Hole No. 47 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
150'	51° 30'
300'	51° 30'
500'	50°
Total Footage 512'	

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
448.0	450.2	Lamprophyre - Carbonatized lamprophyre		5.0	.09		446.0 - 451.0
450.2	461.0	Agglomerate - Schisted porphyritized agglomerate with many blebs of calcite. Fair pyrite.		5.0	.02		451.0 - 456.0
				5.0	.02		456.0 - 461.0
461.0	469.0	Basic Syenite - Reddish colour					
469.0	497.0	Carbonatized Tuff - Silicified, carbonatized, porphyritized tuff (?) Cut by small dykes of porphyry. Few small quartz stringers. Fair pyrite.		5.0	.17		469.0 - 474.0
				5.0	.07		474.0 - 479.0
				4.0	.16		479.0 - 483.0
				4.0	.22		483.0 - 487.0
				4.0	.28		487.0 - 491.0
				4.0	.38		491.0 - 495.0
497.0	512.0	Carbonatized Tuff - Soft chloritic, schisted, carbonatized, syenitized tuff. Last foot is massive and more siliceous. Fair pyrite.		4.0	.23		495.0 - 499.0
				4.0	.02		499.0 - 503.0
				4.0	.02		503.0 - 507.0
		SUMMARY					
		14.0 - 267.5 -- Andesite					
		267.5 - 351.5 -- Porphyritized Andesite					
		351.5 - 359.0 -- Porphyritized Tuff					
		359.0 - 438.0 -- Syenite					
		438.0 - 461.0 -- Agglomerate					
		461.0 - 469.0 -- Basic Syenite					
		469.0 - 512.0 -- Carbonatized Tuff					

Date of Examination September 11, 1946

DIAMOND DRILL RECORD

Hole No. 48 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 5183.4
Departure E. 12407.2
Bearing South 40° West

	Dip
0	50°
150'	53°30'
300'	51°
390'	51°

Total Footage 405'

Elev. Collar 9991.75
Datum
Date Started April 11, 1946
Date Completed April 17, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	19.0	Casing					
19.0	64.5	Andesite - Fine grained andesite with short sections showing small amygdules. This is probably a pillow lava. Little irregular syenitization. Few small porphyry stringers. Few small quartz stringers. Little pyrite.					
64.5	68.0	Silicified Andesite - Fine grained carbonatized and silicified andesite. Few small quartz stringers. Fair pyrite.					
68.0	77.0	Andesite - Fine grained andesite with a few quartz and calcite stringers.					
77.0	79.2	Basic Syenite - with calcite stringers					
79.2	102.0	Andesite - Fine grained andesite with short syenitized sections. Few small quartz and calcite stringers. Little pyrite.					
102.0	117.0	Porphyritized Andesite - Syenitized andesite? with short, less altered sections in first ten feet. Few small quartz and calcite stringers. Little pyrite.					
117.0	136.5	Porphyritized Andesite - Syenitized, spherulitic andesite with short chloritized and brecciated sections and short carbonatized sections. Few quartz stringers. Fair pyrite.		5.0	.10		116.0 - 121.0
				5.0	.02		121.0 - 126.0
				6.0	.06		126.0 - 132.0
				5.0	.07		132.0 - 137.0
136.5	200.5	Porphyritized Andesite - Porphyritized spherulitic andesite(?) with numerous stringers and small dykes of fine grained feldspar porphyry. Few small quartz stringers mostly parallel to core.		5.0	.57		137.0 - 142.0
				5.0	.97		142.0 - 147.0
				5.0	.54		147.0 - 152.0
				5.0	.12		152.0 - 157.0

Date of Examination September 12, 1946

DIAMOND DRILL RECORD

Hole No. 48 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
150'	53°30'
300'	51°
390'	51°

Total Footage 405'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
136.5	200.5	(continued) Fair pyrite. Visible gold at 141 - 142, 145 - 146 and 161 - 162. Some brecciation and red alteration around these quartz stringers. Good pyrite in these sections.		5.0	3.96		157.0 - 162.0
				5.0	.16		162.0 - 167.0
				4.0	.09		176.0 - 180.0
				5.0	.05		180.0 - 185.0
				5.0	.02		185.0 - 190.0
				5.0	.04		195.0 - 200.0
				6.0	.02		200.0 - 206.0
200.5	237.5	Porphyritized Andesite.- With dykes and stringers of feldspar porphyry and lamprophyre. Few quartz stringers. Fair pyrite.		5.0	.26		226.0 - 231.0
				5.0	.07		231.0 - 236.0
237.5	251.5	Porphyritized Tuff - Syenitized tuff with irregular stringers of syenite. Few small quartz stringers Fair pyrite.		6.0	.03		241.0 - 247.0
				4.0	.04		247.0 - 251.0
251.5	312.0	Syenite - Coarse grained slightly carbonatized feldspar porphyry Little pyrite. Few small quartz stringers in last ten feet. Last three feet fine grained.		5.0	.04		285.0 - 290.0
				5.0	.02		290.0 - 295.0
				4.0	.02		300.0 - 304.0
				4.0	.05		304.0 - 308.0
				4.0	.12		308.0 - 312.0
312.0	322.5	Lamprophyre					
322.5	325.5	Agglomerate - Silicified, syenitized tuff and agglomerate. Little pyrite.		4.0	.15		322.0 - 326.0
				4.0	.09		326.0 - 330.0
325.5	345.0	Agglomerate - Brecciated, carbonatized, silicified and syenitized tuff and agglomerate and porphyry dykes. Little pyrite.		5.0	.02		335.0 - 340.0
345.0	351.0	Agglomerate - Brecciated, carbonatized and silicified tuff and agglomerate		5.0	.02		345.0 - 350.0
				5.0	.05		350.0 - 355.0
351.0	398.5	Agglomerate - Soft schisted slightly carbonatized agglomerate with a little irregular silicification Becoming increasingly chloritic and schisted		5.0	.02		355.0 - 360.0
				5.0	.03		360.0 - 365.0
				6.0	.03		370.0 - 376.0

Date of Examination September 12, 1946

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DIAMOND DRILL RECORD

Hole No. 48 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
150'	53°30'
300'	51°
390'	51°

Total Footage 405'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
398.5	400.2	Porphyritized Andesite - Syenitized and silicified amygdaloidal andesite(?)					
400.2	405.0	Porphyry - Carbonatized and silicified, fine grained feldspar porphyry Few small quartz stringers. Little pyrite.					
405.0		END OF HOLE					
		SUMMARY					
		19.0 - 102.0 -- Andesite.					
		102.0 - 237.5 -- Porphyritized Andesite					
		237.5 - 251.5 -- Porphyritized tuff					
		251.5 - 312.0 -- Syenite					
		312.0 - 322.5 -- Lamprophyre					
		322.5 - 398.5 -- Agglomerate					
		398.5 - 405.0 -- Porphyritized Andesite.					

Date of Examination September 12, 1946

DIAMOND DRILL RECORD

Hole No. 49 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 5260.7
Departure E. 12471.9
Bearing South 40° West

	Dip
0	50°
171'	47°
375'	52°
550'	47° 30'

Total Footage 559'

Elev. Collar 9990.30
Datum
Date Started April 18, 1946
Date Completed May 1, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	11.0	Casing					
11.0	99.0	Andesite - Fine grained andesite pillow lava with short brecciated, syenitized and silicified sections.					
99.0	123.0	Andesite - Fine grained spherulitic andesite with a little irregular syenitization					
123.0	203.0	Andesite - Fine grained spherulitic andesite, little syenitization, short sections show small amygdules. Few pink calcite stringers.		5.0	.02		187.0 - 192.0
				5.0	.02		192.0 - 197.0
				4.0	.03		197.0 - 201.0
203.0	210.7	Andesite - Brecciated carbonatized, spherulitic andesite. Few small quartz stringers. Little pyrite.		4.0	.02		201.0 - 205.0
				5.0	.03		205.0 - 210.0
210.7	212.0	Tuff - Looks like altered tuff					
212.0	238.0	Andesite - Fractured partially syenitized and carbonatized spherulitic andesite. probably some interbanded tuff. Few small quartz stringers. Little pyrite. Fractures at 45° and 20° both ways		5.0	.02		230.0 - 235.0
238.0	241.4	Lamprophyre					
241.4	252.0	Porphyritized Andesite - Carbonatized, syenitized spherulitic andesite.		5.0	.03		240.0 - 245.0
				5.0	.02		245.0 - 250.0
252.0	313.5	Andesite - Slightly carbonatized and syenitized spherulitic andesite. Cut by small dykes and stringers of feldspar porphyry. Few small quartz stringers. Little pyrite. 291.0 - 294.0 Good pyrite. Most of dykes at 50° to core but some at 10°. Lost core 288.0 - 289.0		5.0	.04		255.0 - 260.0
				4.3	.02		260.0 - 264.3
				2.2	.02		264.3 - 266.5
				3.5	.05		266.5 - 270.0
				5.0	.04		270.0 - 275.0
				5.0	.04		275.0 - 280.0

Date of Examination September 12, 1946

T-74

DIAMOND DRILL RECORD

Hole No. 49 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
171'	47°
375'	52°
550'	47°30'

Total Footage 559'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
252.0	313.5	(continued)		5.0	.02		285.0 - 290.0
				5.0	.20		290.0 - 295.0
				5.0	.02		295.0 - 300.0
313.5	326.5	Basic Syenite - Syenitized, medium grained, basic					
		syenite cut by small dykes and stringers of					
		feldspar porphyry.					
326.5	350.5	Porphyritized Andesite - Porphyritized, spherulitic		3.5	.05		326.5 - 330.0
		andesite cut by numerous dykes of fine		5.0	.08		330.0 - 335.0
		grained feldspar porphyry. Few chlorite slips.		5.0	.10		335.0 - 340.0
		Little red alteration. Few small quartz stringers.		5.0	.11		340.0 - 345.0
		Fair pyrite. Visible gold 348-349. Good pyrite		5.0	1.43		345.0 - 350.0
		348-350. Most of quartz at 20° to core.					
350.5	356.0	Porphyritized Tuff - Schisted, silicified syenitized					
		tuff. Strong chlorite slips mostly at a low					
		angle to the core. Few small quartz stringers.					
		Little pyrite.		5.0	.06		350.0 - 355.0
356.0	360.2	Porphyritized Tuff - Silicified, fractured, car-		5.5	.17		355.0 - 360.5
		bonatized and syenitized tuff(?) Little pyrite.					
360.2	424.3	Syenite - Slightly sheared partially carbonatized		4.5	.02		360.5 - 365.0
		and silicified coarse grained feldspar porphyry.		5.0	.04		405.0 - 410.0
		First foot is finer grained and more highly		5.0	.05		410.0 - 415.0
		altered. Few small quartz stringers. Little		5.0	.05		415.0 - 420.0
		pyrite.		4.3	.02		420.0 - 424.3
424.3	456.0	Agglomerate - Silicified, carbonatized, chloritic,		4.7	.04		424.3 - 429.0
		agglomerate with syenitized sections. The less		5.0	.03		429.0 - 434.0
		altered sections are schisted. Considerable ir-		5.0	.07		440.0 - 445.0
		regular calcite. Few quartz stringers. Little					
		pyrite.		5.0	.02		450.0 - 455.0

Date of Examination September 12, 1946

DIAMOND DRILL RECORD

Hole No. 49 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
171'	47°
375'	52°
550'	47°30'

Total Footage 559'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
456.0	465.0	Talc Schist - Schisted talcose agglomerate with a little irregular carbonatization and silicification. Some pyrite. Lost Core: 457.0 - 460.0		5.0	.03		460.0 - 465.0
465.0	559.0	Talc Schist - Talc-chlorite schist with some more massive talcose sections. This may have been originally andesite. Few quartz and calcite stringers. Little pyrite.					
		SUMMARY					
		11.0 - 241.4 -- Andesite.					
		241.4 - 252.0 -- Porphyritized Andesite					
		252.0 - 313.5 -- andesite.					
		313.5 - 326.5 -- Basic Syenite					
		326.5 - 350.5 -- Porphyritized Andesite					
		350.5 - 360.2 -- Porphyritized Tuff					
		360.2 - 424.3 -- Syenite					
		424.3 - 456.0 -- Carbonatized Agglomerate					
		456.0 - 465.0 -- Talc Schist (Agglomerate)					
		465.0 - 559.0 -- Talc Schist (Andesite)					

Date of Examination September 12, 1946

T-74

DIAMOND DRILL RECORD

Hole No. 50 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 5623.8
Departure E. 12466.4
Bearing South 10° West

	Dip
0	50°
150'	52°
350'	51°
550'	52°
750'	52°
1025'	52°30'

Total Footage 1042'

Elev. Collar 9988.0
Datum
Date Started May 2, 1946
Date Completed May 18, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	41.0	Casing					
41.0	44.7	Andesite - Spherulitic andesite.					
44.7	48.0	Basic Syenite - Fine grained basic syenite dyke, contacts at 30° to core.					
48.0	83.8	Andesite - Spherulitic andesite, fair sized spherules. Appears fragmental from 75.0 on. Flow top?					
83.8	182.5	Diorite - Medium grained diorite (?) with long needles of hornblende. First two feet fine grained. The long needles may be secondary					
182.5	224.0	Andesite - Spherulitic andesite (very small spherules in narrow bands) with a few amygdules gradually increasing in quantity. Probably pillow lava.					
224.0	259.0	Andesite - Fine grained amygdaloidal basalt or andesite.					
259.0	293.0	Andesite - Very fine grained fractured basalt or andesite with a few amygdules. Narrow carbonatized, silicified and syenitized bands running with the core. Some of these have good pyrite.					
293.0	301.0	Porphyritized Agglomerate - Brecciated, carbonatized, syenitized agglomerate or fragmental lava with strong chlorite slips at 15° to core. Few small quartz and carbonate stringers. Few narrow red siliceous bands running with the core. Fair pyrite.		4.0 4.0	.02 .02		293.0 - 297.0 297.0 - 301.0

Date of Examination

DIAMOND DRILL RECORD

Hole No. 50 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10° West

	Dip
0	50°
150'	52°
350'	51°
550'	52°
750'	52°
1025'	52°30'

Total Footage 1042'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
301.0	323.0	Porphyritized Andesite - Brecciated, carbonatized,		4.0	.02		301.0 - 305.0
		syenitized, spherulitic andesite. Few small		4.6	.03		313.3 - 317.9
		quartz stringers. Fair pyrite.		5.2	.04		317.9 - 323.1
323.0	347.0	Porphyritized Andesite - Somewhat silicified in		3.9	.02		323.1 - 327.0
		places. Strong chlorite slips at 10° to core.					
		Few small quartz stringers mostly running with		4.0	.03		339.0 - 343.0
		the core. Fair pyrite.					
347.0	357.0	Andesite - Slightly carbonatized andesite with					
		some syenitization along irregular stringers					
		running roughly with the core. Little pyrite.					
357.0	595.0	Diorite.- Medium grained diorite with a few pink					
		calcite stringers. This is a fairly fresh					
		looking rock. It could be a dyke running with					
		the hole. The grain size is very even					
595.0	628.0	Andesite - Fine grained andesite with slightly					
		silicified sections. Cut by two small syenite					
		dykes. Lost core 623.6 - 625.0					
628.0	638.0	Porphyry - Medium grained feldspar porphyry with					
		chlorite slips and small aggregates. Inclusion					
		of highly silicified and syenitized andesite.					
		629.2 - 631.3					
638.0	691.5	Porphyritized Andesite.- Fine grained syenitized		4.0	.02		662.0 - 666.0
		andesite cut by narrow dykes of porphyry. Little		4.0	.10		666.0 - 670.0
		pyrite to 655. Fair pyrite with good sections		4.0	.02		670.0 - 674.0
		from 655.		5.0	.03		678.0 - 683.0
				5.0	.05		683.0 - 688.0
691.5	699.5	Porphyritized Andesite - Silicified Porphyritized		5.0	.09		688.0 - 693.0
		andesite cut by dykes of feldspar porphyry. Good		3.5	.10		693.0 - 696.5
		pyrite mineralization.		3.2	.06		696.5 - 699.7

Date of Examination

DIAMOND DRILL RECORD

Hole No. 50 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10° West

	Dip
0	50°
150'	52°
350'	51°
550'	52°
750'	52°
1025'	52°30'
Total Footage 1042'	

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
699.5	706.0	Lamprophyre					
706.0	713.5	Porphyritized Andesite - Silicified, porphyritized andesite(?). Few small stringers of feldspar porphyry. Few small quartz stringers. Little pyrite. Good pyrite in last three feet		4.0 4.0	.03 .11		706.0 - 710.0 710.0 - 714.0
713.5	727.0	Porphyritized Tuff - Red felsitic, silicified porphyritized tuff(?) cut by dykes of feldspar porphyry. Few small quartz stringers. Few chlorite slips. Little pyrite.		4.0	.06		730.0 - 734.0
727.0	738.7	Porphyritized Tuff - Partially syenitized, slightly silicified tuff cut by stringers of feldspar porphyry. Little pyrite.		4.0 5.0	.02 .05		734.0 - 738.0 738.0 - 743.0
738.7	751.5	Porphyritized Tuff - Syenitized tuff cut by dykes and stringers of feldspar porphyry and lamprophyre. Lost core: 748.2 - 750.0		5.2	.02		743.0 - 748.2
751.5	809.0	Syenite - Medium to coarse grained syenite with inclusions of silicified, porphyritized tuff(?) Few small quartz stringers. Few calcite stringers. Little pyrite. Few graphite slips. Fairly strong graphite slip at 65° to core at 790'. Calcite stringers show considerable leaching at 755'. Lost core 795.6 - 800.0		5.0 5.7	.02 .02		755.0 - 760.0 790.0 - 795.7
809.0	905.5	Syenite - Coarse grained syenite with considerable carbonate in places. A good deal of leaching. There appears to be kaolinization of the feldspar.		4.8	.02		905.3 - 910.1
905.5	910.0	Basic Syenite - Dark, silicified, brecciated, chloritized basic syenite containing considerable graphite. Little pyrite.					

Date of Examination

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DIAMOND DRILL RECORD

Hole No. 50 Sheet No. 4

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10° West

	Dip
0	50°
150'	52°
350'	51°
550'	52°
750'	52°
1025'	52°30'

Total Footage 1042'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by J. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
910.0	939.0	Carbonate Breccia - Probably originally basic syenite and feldspar porphyry. Calcite stringers. Few graphite slips. Few small quartz stringers. Fair pyrite.		5.0	.02		915.0 - 920.0
939.0	959.3	Carbonate - Brecciated carbonatized feldspar porphyry with inclusions of porphyritized agglomerate and basic syenite. Fair pyrite.		4.0	.03		939.0 - 943.0
				4.0	.09		943.0 - 947.0
				3.0	.02		947.0 - 950.0
				4.3	.03		950.0 - 954.3
959.3	970.5	Lamprophyre - Somewhat carbonatized in places.					
970.5	980.0	Porphyry - Red slightly brecciated and carbonatized coarse grained feldspar porphyry This appears to be a red alteration. Few quartz stringers. Fair pyrite.					
980.0	1001.0	Carbonate - Originally largely feldspar porphyry Few small quartz stringers. Fair pyrite.		5.0	.03		985.0 - 990.0
				5.0	.02		990.0 - 995.0
1001.0	1005.0	Agglomerate - Silicified, carbonatized, syenitized agglomerate. Few small quartz stringers. Little pyrite.		5.0	.11		1000.0 - 1005.0
1005.0	1012.0	Lost core					
1012.0	1042.0	Talc - Talc-Chlorite Schist with some irregular carbonate. Probably originally agglomerate. Little pyrite. Lost core 1027.5 - 1030.0					
1042.0		END OF HOLE					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 50 Sheet No.

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10° West.

	Dip
0	50°
150'	52°
350'	51°
550'	52°
750'	52°
1025'	52°30'

Total Footage 1042'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
		SUMMARY					
		41.0 - 83.8 -- Andesite					
		83.8 - 182.5 -- Diroite					
		182.5 - 293.0 -- Andesite					
		293.0 - 301.0 -- Porphyritized Agglomerate					
		301.0 - 347.0 -- Porphyritized Andesite.					
		347.0 - 357.0 -- Andesite					
		357.0 - 595.0 -- Diorite					
		595.0 - 628.0 -- Andesite.					
		628.0 - 638.0 -- Porphyry					
		638.0 - 713.5 -- Porphyritized Andesite.					
		713.5 - 751.5 -- Porphyritized Tuff					
		751.5 - 905.5 -- Syenite					
		905.5 - 959.3 -- Carbonate					
		959.3 - 970.5 -- Lamprophyre					
		970.5 - 980.0 -- Porphyry					
		980.0 -1001.1 -- Carbonate					
		1001.0 - 1005.0 -- Agglomerate					
		1005.0 -1042.0 -- Talc-Chlorite-Schist					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 52 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location

Latitude N. 5148.6
Departure E. 12442.5
Bearing South 40° West

	Dip
0	50°
200'	51°
400'	52°
630'	48°30'

Total Footage 643'

Elev. Collar 9992.0
Datum
Date Started May 26, 1946
Date Completed June 7, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	10.0	Casing					
10.0	50.0	Andesite - Fine grained basalt or andesite. Little irregular syenitization. Short brecciated, carbonatized and silicified sections. Little pyrite.		5.0	.03		15.0 - 20.0
50.0	60.0	Andesite - spherulitic					
60.0	70.0	Andesite - Fine grained andesite with short somewhat brecciated, carbonatized, silicified and syenitized sections.					
70.0	139.5	Andesite - Slightly silicified, carbonatized, partially porphyritized andesite with short unaltered sections. Few small quartz stringers. Little pyrite.					
139.5	181.0	Porphyritized Andesite - Slightly silicified highly syenitized andesite with narrow highly silicified bands. Strong chlorite slips at 5° to core. Few small quartz stringers. Fair pyrite.		5.0	.02		140.0 - 145.0
				5.0	.03		150.0 - 155.0
				5.0	.02		155.0 - 160.0
				5.0	.07		160.0 - 165.0
				5.0	.04		165.0 - 170.0
				5.0	.05		170.0 - 175.0
				4.0	.03		175.0 - 179.0
181.0	183.5	Lamprophyre - Carbonatized slightly syenitized lamprophyre					
183.5	191.5	Porphyritized Andesite - Silicified, carbonatized, syenitized andesite(?) Little pyrite.		4.5	.06		187.0 - 191.5
191.5	212.5	Syenite - Medium grained syenite with carbonatized sections, two small dykes of porphyritized lamprophyre. Little pyrite.		3.5	.08		191.5 - 195.0
				5.0	.05		195.0 - 200.0
				4.5	.02		208.0 - 212.5

Date of Examination

DIAMOND DRILL RECORD

Hole No. 52 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
200'	51°
400'	52°
630'	48°30'

Total Footage 643'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
212.5	233.8	Lamprophyre - Porphyritized					
233.8	242.0	Syenite - Medium to fine grained syenite with		3.7	.04		233.8 - 237.5
		inclusions of porphyritized tuff(?) little		4.5	.07		237.5 - 242.0
		pyrite					
242.0	264.4	Carbonate - Silicified, brecciated, carbonatized,		4.0	.03		242.0 - 246.0
		agglomerate(?). Little pyrite.		5.0	.03		255.0 - 260.0
				4.4	.02		260.0 - 264.4
264.4	267.9	Basic Syenite - Little pyrite					
267.9	273.5	Carbonate - Same as 242.0 - 264.4		4.1	.05		267.9 - 272.0
273.5	277.0	Talc Chlorite Schist - With irregular carbonate.					
		Little pyrite.					
277.0	292.5	Agglomerate - Slightly talcose, brecciated, car-		4.0	.03		276.0 - 280.0
		bonatized agglomerate. Little pyrite.		5.0	.04		280.0 - 285.0
				5.0	.03		285.0 - 290.0
292.5	296.6	Basic Syenite - Basic syenite with inclusions of					
		carbonatized agglomerate.					
296.6	299.0	Talc Chlorite Schist					
299.0	309.5	Agglomerate - Carbonatized agglomerate with silici-		5.0	.02		300.0 - 305.0
		fied sections.		4.5	.03		305.0 - 309.5
309.5	311.1	Basic Syenite - Dyke at 30° to core. Little pyrite					
311.1	315.5	Agglomerate - Carbonatized agglomerate. Little					
		pyrite.					
315.5	317.0	Basic Syenite - Little pyrite.					
317.0	342.8	Talc-Chlorite Schist - Originally agglomerate					
342.8	348.5	Pegmatite - Dyke. Consists of white quartz and					
		silvery mica not coarse grained like a normal					
		pegmatite.					

Date of Examination

T.74

DIAMOND DRILL RECORD

Hole No. 52 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 40° West

	Dip
0	50°
200'	51°
400'	52°
630'	48° 30'

Total Footage 643'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
348.5	363.0	Talc-Chlorite - Schisted talcose agglomerate					
363.0	371.2	Talc-Chlorite - Schisted talcose andesite or basalt with carbonate stringers. Considerable chlorite.					
371.2	383.1	Basic Syenite - Medium grained grey, basic syenite irregularly carbonatized and silicified. This rock has long needles of hornblende.					
383.1	402.0	Talc - Talcose andesite with carbonate stringers. Schisted sections. Little pyrite.					
402.0	643.0	Porphyry - Medium grained grey feldspar porphyry. Pink near the contacts. Contact at 30° to core.		5.0	.02		455.0 - 460.0
		Little pyrite, little hematite. Inclusion of		5.0	.04		515.0 - 520.0
		brecciated chloritized agglomerate(?) at 451'		5.0	.02		535.0 - 540.0
		Lost core 590.0 - 592.0		5.0	.03		565.0 - 570.0
643.0		END OF HOLE					

SUMMARY

10.0 - 139.5 -- Andesite	299.0 - 317.0 -- Carbonate
139.5 - 191.5 -- Porph. Andesite	317.0 - 402.0 -- Talc
191.5 - 212.5 -- Syenite	402.0 - 643.0 -- Porphyry
212.5 - 233.8 -- Lamprophyre	
233.8 - 242.0 -- Syenite	
242.0 - 273.5 -- Carbonate	
273.5 - 277.0 -- Talc	
277.0 - 296.6 -- Carbonate	
296.6 - 299.0 -- Talc	

Date of Examination

DIAMOND DRILL RECORD

Hole No. 53 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 5147.5
Departure E. 12441.5
Bearing South 10° West

	Dip
0	51°
200'	50°

Total Footage 246'

Elev. Collar 9993.0
Datum
Date Started June 8, 1946
Date Completed June 12, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	11.0	Casing					
11.0	16.0	Andesite - Fine grained basalt or andesite.					
16.0	34.0	Andesite - Fine grained slightly carbonatized andesite (?)					
34.0	35.0	Andesite - Spherulitic andesite.					
35.0	56.7	Andesite - Fine grained andesite with slightly carbonatized sections.					
56.7	58.1	Lamprophyre					
58.1	78.0	Andesite - Same as 35.0 - 56.7					
78.0	79.0	Andesite - Spherulitic Andesite.					
79.0	136.5	Andesite - Fine grained andesite with slightly carbonatized sections, short silicified sections					
136.5	148.0	Basic Syenite - Slightly carbonatized basic syenite.					
148.0	152.2	Porphyritized Andesite - Silicified, brecciated, syenitized andesite or tuff.					
152.2	176.0	Syenite - Medium grained syenite with brecciated, carbonatized sections. Few small quartz stringers. Little pyrite.		5.0 4.0	.03 .06		167.0 - 172.0 172.0 - 176.0
176.0	194.0	Carbonate - Carbonatized, brecciated, andesite(?). Little pyrite.		4.0	.02		176.0 - 180.0
194.0	206.2	Carbonate - Carbonatized, brecciated feldspar porphyry. Little Pyrite.		5.0 5.0	.02 .02		185.0 - 190.0 190.0 - 195.0
206.2	216.7	Carbonate - Carbonatized agglomerate. Little pyrite		4.0 3.7	.02 .02		209.0 - 213.0 213.0 - 216.7
216.7	246.0	Agglomerate - Schisted chloritic agglomerate. Irregularly carbonatized. Becoming talcose.					
246.0		END OF HOLE					

Date of Examination

F-74

DIAMOND DRILL RECORD

Hole No. 53 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10° West

	Dip
0	51°
200'	50°

Total Footage 246'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
		SUMMARY					
		11.0 - 136.5 -- Andesite					
		136.5 - 148.0 -- Basic Syenite					
		148.0 - 152.2 -- Porphyritized Andesite.					
		152.2 - 176.0 -- Syenite					
		176.0 - 216.7 -- Carbonate					
		216.7 - 246.0 -- Agglomerate.					

Date of Examination

K.74

DIAMOND DRILL RECORD

Hole No. 54 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location

Latitude N. 5225.3
Departure E. 12505.4
Bearing South 41°30' West

	Dip
0	49°20'
200'	48°30'
400'	50°

Total Footage 444.5'

Elev. Collar 9992.0
Datum
Date Started June 13, 1946
Date Completed June 19, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	14.0	Casing					
14.0	58.0	Andesite - Fine grained andesite.					
58.0	75.0	Andesite - Fine grained andesite with a few amygdules and a few narrow spherulitic bands.					
75.0	115.0	Andesite - Fine grained andesite					
115.0	150.0	Andesite - Fine grained, spherulitic andesite with slightly silicified and carbonatized sections. Few small quartz stringers. Little pyrite.		5.0	.17		113.0 - 118.0
				5.0	.03		118.0 - 123.0
				5.0	.02		140.0 - 145.0
150.0	222.0	Andesite - Fine grained amygdalcidal and spherulitic andesite with slightly silicified and carbonatized sections.					
222.0	224.9	Andesite - Slightly syenitized andesite. Little pyrite.		5.0	.03		220.0 - 225.0
224.9	226.3	Lamprophyre -					
226.36	292.0	Porphyritized Andesite.- Syenitized andesite with slightly carbonatized and silicified sections. Few small quartz stringers. Little pyrite. Spherulitic from 250'.		5.0	.04		230.0 - 235.0
				5.0	.02		235.0 - 240.0
				5.0	.04		240.0 - 245.0
				5.0	.03		245.0 - 250.0
				5.0	.03		260.0 - 265.0
				5.0	.13		265.0 - 270.0
				5.0	.06		270.0 - 275.0
				5.0	.03		275.0 - 280.0
				5.0	.01		280.0 - 285.0
				5.0	.10		285.0 - 290.0
292.0	301.0	Porphyritized Andesite - Slightly silicified, carbonatized, syenitized andesite(?). Few small quartz stringers. Fair pyrite.		5.0	.25		290.0 - 295.0
				5.0	.20		295.0 - 300.0

Date of Examination

DIAMOND DRILL RECORD

Hole No. 54 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 41°30' West

	Dip
0	49°20'
200'	48°30'
400'	50°

Total Footage 444.5'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
301.0	320.1	Porphyritized Andesite - Slightly carbonatized,		5.0	.08		300.0 - 305.0
		syenitized spherulitic andesite cut by dykes		5.0	.06		305.0 - 310.0
		of feldspar porphyry. Few small quartz stringers					
		Little pyrite.		4.9	.03		315.0 - 319.9
320.1	327.5	Porphyritized Agglomerate - carbonatized, brec-					
		ciated, syenitized agglomerate (?). Little		4.5	.02		323.0 - 327.5
		pyrite.					
327.5	334.9	Syenite - Carbonatized slightly silicified,					
		medium grained syenite.					
334.9	336.7	Basic Syenite -					
336.7	341.5	Syenite - Same as 327.5 - 334.9		4.5	.02		337.0 - 341.5
341.5	344.0	Basic Syenite					
344.0	349.0	Syenite - Coarse grained syenite. Few small quartz		5.0	.05		344.0 - 349.0
		stringers. Little pyrite.					
349.0	349.9	Basic Syenite					
349.9	353.0	Syenite - Medium grained syenite with small in-					
		clusions of carbonatized agglomerate		3.0	.03		350.0 - 353.0
353.0	374.8	Carbonate - Brecciated, carbonatized, slightly		4.0	.05		353.0 - 357.0
		porphyritized agglomerate. Little pyrite.		4.0	.02		357.0 - 361.0
				5.0	.03		365.0 - 370.0
				4.8	.03		370.0 - 374.8
374.8	381.7	Lamprophyre					
381.7	426.0	Carbonate - Brecciated, carbonatized slightly		4.3	.04		381.7 - 386.0
		porphyritized, agglomerate cut by dykes of		4.0	.07		386.0 - 390.0
		feldspar porphyry. Few small quartz stringers.		5.0	.02		390.0 - 395.0
		Little pyrite.		5.0	.05		395.0 - 400.0
				5.0	.15		400.0-405.0

Date of Examination

T-74

DIAMOND DRILL RECORD

Hole No. 54 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 41°30' West

	Dip
0	49°20'
200'	48°30'
400'	50°

Total Footage 444.5'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
381.7	426.0	(continued)		5.0	.08		405.0 - 410.0
				5.0	.02		410.0 - 415.0
				5.0	.02		415.0 - 420.0
				5.0	.04		420.0 - 425.0
426.0	439.0	Agglomerate - slightly carbonatized, squeezed agglomerate. Little pyrite.		5.0	.02		425.0 - 430.0
				5.0	.02		430.0 - 435.0
				5.0	.03		435.0 - 440.0
439.0	444.5	Talc-Chlorite Schist - Originally agglomerate. Little pyrite.		4.5	.02		440.0 - 444.5
444.5		END OF HOLE					
		SUMMARY					
		14.0 - 224.9 -- Andesite					
		224.9 - 320.1 -- Porphyritized Andesite					
		320.1 - 327.5 -- Porphyritized Agglomerate					
		327.5 - 353.0 -- Syenite					
		353.0 - 426.0 -- Carbonate					
		426.0 - 439.0 -- Agglomerate					
		439.0 - 444.5 -- Talc-Chlorite					

Date of Examination

T. 74

DIAMOND DRILL RECORD

Hole No. 55 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 4991.5
Departure E. 13425.6
Bearing South 12° West

	Dip
0	60°
100'	64°
300'	63°30'
500'	63°30'
675'	60°

Total Footage 695'

Elev. Collar 9982.0
Datum
Date Started June 20, 1946
Date Completed June 10, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	70.0	Casing					
70.0	113.0	Andesite - Fine grained andesite.					
		111.0 - 113 -- Very fine grained with alteration banding at 15° to core.					
113.0	135.0	Diorite - Medium grained diorite (?) with long needles of feldspar. Few small quartz stringers. Little pyrite.					
135.0	144.0	Diorite - Fine grained andesite or diorite with a little irregular syenitization and porphyritization. Possible flow top or contact at 143 at 20° to core.					
144.0	202.0	Diorite - Medium grained slightly porphyritized diorite(?) Rather prominent feldspars. Little pyrite.					
202.0	225.0	Diorite - Fine grained slightly porphyritized andesite or diorite. Secondary feldspars.					
225.0	254.0	Diorite - Fine grained andesite or diorite. Small needles of hornblende. Few small stringers of porphyry					
254.0	305.0	Diorite - Medium grained diorite (?) with hornblende needles up to 3/8" in length. Few small stringers of porphyry					
305.0	333.0	Diorite - Fine grained slightly porphyritized andesite or diorite. Needles of secondary feldspar. Few small dykes and stringers of feldspar porphyry. Little pyrite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 55 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 12° West

	Dip
0	60°
100'	64°
300'	63°30'
500'	63°30'
675'	60°
Total Footage 695'	

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
333.0	371.5	Diorite - Medium grained diorite? Long needles of hornblende. Little pyrite.					
371.5	408.5	Diorite - Somewhat carbonatized, fine grained andesite or diorite. Few stringers of feldspar porphyry. Little pyrite.					
408.5	450.0	Andesite - Fine grained, slightly carbonatized and syenitized spherulitic andesite. Few small amygdules. Little pyrite.		5.0	.09		445.0 - 450.0
				5.0	.03		455.0 - 460.0
450.0	519.0	Andesite.- Fine grained, spherulitic andesite with a little irregular syenitization. Few small amygdules. Little pyrite. Lost core 461.6 - 464.1		5.0	.02		505.0 - 510.0
519.0	695.0	Diorite - Fine grained andesite or diorite with needles of hornblende and feldspar. Little irregular syenitization. Little pyrite.		5.0	.02		650.0 - 655.0
695.0		END OF HOLE					

SUMMARY

70.0 - 113.0 -- Andesite
113.0 - 408.5 -- Diorite
408.5 - 519.0 -- Andesite
519.0 - 695.0 -- Diorite.

Date of Examination

T-74

DIAMOND DRILL RECORD

Hole No. 56 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 4893.13
Departure E. 13406.84
Bearing North 10° East

	Dip
0	45°
100'	38°30'
300'	38°30'
510'	37°30'

Total Footage 511.5'

Elev. Collar
Datum
Date Started July 11, 1946
Date Completed July 29, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	84.0	Casing					
84.0	104.0	Andesite - Fine grained andesite.					
104.0	122.0	Andesite - Fine grained andesite or basalt with very small amygdules and spherules in places.					
122.0	197.5	Andesite - Fine grained andesite. Possible flow top.		5.0	.03		150.0 - 155.0
197.5	250.0	Andesite - Fine grained andesite. Little pyrite.					
250.0	271.5	Andesite - Fine grained andesite. Few small stringers of porphyry. Little pyrite.					
271.5	324.0	Diorite - Fine to medium to coarse grained diabase or diorite. This rock shows pronounced differentiation.					
324.0	384.0	Diorite - Medium to fine grained diabase or diorite Lost core - 364.2 - 365.0; 366.2 - 368.0					
384.0	400.0	Diorite - Fine to medium grained diorite. This rock shows a mottled appearance due to aggregation of augite and is cut by small dark, fine grained diorite dykes					
400.0	511.5	Diorite - Medium grained, mottled diorite showing some differentiation. Short sections are talcose					
511.5		END OF HOLE.					
		SUMMARY					
		84.0 - 271.5 -- Andesite.					
		271.5 - 384.0 -- Diorite (Ophitic)					
		384.0 - 511.5 -- Diorite					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 57 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 4580.91
Departure E. 12281.91
Bearing North 10° East

	Dip
0	50°
75'	49°
275'	49°
475'	44°
675'	44° 30'
875'	44°

Total Footage 999.8'

Elev. Collar 9991.68
Datum
Date Started July 12, 1946
Date Completed August 9, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	31.0	Casing					
31.0	38.3	Carbonate - Chlorite-carbonate schist					
38.3	39.5	Carbonate - Carbonatized feldspar porphyry. Few small quartz stringers. Little pyrite.					
39.5	54.4	Carbonate - Chlorite-carbonate schist, slightly talcose, short brecciated sections. Probably originally agglomerate. Schisted at 30° to core. Cut by two small dykes of brecciated carbonatized feldspar porphyry					
54.4	56.5	Carbonate - Carbonatized, brecciated feldspar porphyry					
56.5	65.0	Talc-Chlorite - Talcose chlorite-carbonate schist. Probably agglomerate to 595 and andesite from there.					
65.0	110.0	Talc-Chlorite - Schisted talcose andesite(?) stringers of carbonate. Short brecciated carbonatized sections.					
110.0	199.0	Talc-Chlorite - Schist with some carbonate. Probably andesite. Lost core 165.0 - 174.7; 178.0 - 179.0					
199.0	295.5	Talc - Highly talcose andesite (?) and lamprophyre. Schisted in places. Few small stringers of feldspar porphyry. Fair pyrite in short sections. Lost core: 265.0 - 275.0					
295.5	459.5	Porphyry - Grey feldspar porphyry, pale pinkish grey near contact. Little pyrite. Little specularite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 57 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing North 10° East

	Dip
0	50°
75'	49°
275'	49°
475'	44°
675'	44°30'
875'	44°

Total Footage 999.8'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
459.5	462.0	Basic Syenite - Reddish basic syenite dyke 45° to core.					
462.0	499.5	Porphyry - Grey feldspar porphyry with slightly silicified sections. Few white quartz stringers Little pyrite.					
499.5	535.0	Talc-Chlorite - Talc-chlorite schist with a little irregular carbonate. Little pyrite. Lost Core: 519.5 - 521.5; 530.0 - 531.0; 534.0 - 535.0					
535.0	536.0	Porphyry - Carbonatized feldspar porphyry					
536.0	630.1	Talc - Talc schist with some brecciated sections. Irregular carbonate stringers. Lost Core: 536.2 - 538.0; 553.6 - 554.5; 560.5 - 563.5					
630.1	630.8	Carbonate - Talcose brecciated carbonate.					
630.8	633.8	Porphyry - Silicified carbonatized feldspar porphyry. Little pyrite.					
633.8	640.5	Carbonate - Talcose brecciated carbonatized agglomerate(?) Good pyrite.					
640.5	642.2	Carbonate - Silicified, brecciated, carbonatized feldspar porphyry. Little pyrite.					
642.2	660.7	Carbonate - Talcose brecciated, carbonatized agglomerate(?) Good pyrite. Lost core: 648.0 - 650.0; 650.5 - 654.5; 655.1 - 660.0					
660.7	664.9	Porphyry - Slightly carbonatized and silicified feldspar porphyry. Little pyrite. Lost Core: 661.8 - 662.8; 663.5 - 664.5					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 57 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing North 10° East

	Dip
0	50°
75'	49°
275'	49°
475'	44°
675'	44°30'
875'	44°

Total Footage 999.8'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
654.9	676.8	Carbonate - Slightly talcose chlorite - carbonate schist, short silicified sections. Few small quartz stringers. Good pyrite.		1.8	.06		675.0 - 676.8
676.8	683.0	Basic syenite - Dark grey, highly silicified, brecciated, carbonatized basic syenite(?). Few small quartz stringers. Little pyrite.		6.2	.04		676.8 - 683.0
683.0	690.0	Carbonate - Silicified, carbonate probably originally basic syenite and tuff. Few small quartz stringers. Good fine pyrite.		3.4 2.9 2.0	.04 .14 .04		683.0 - 686.4 686.4 - 689.3 689.3 - 691.3
690.0	691.3	Basic Syenite - Carbonatized basic syenite. Little pyrite					
691.3	696.6	Porphyritized Tuff - Silicified, brecciated porphyritized tuff or andesite, with dykes and stringers of chloritized, brecciated feldspar porphyry. Fair pyrite.		5.3	.02		691.3 - 696.6
696.6	816.3	Syenite - Slightly carbonatized, medium to coarse grained syenite with calcite stringers and short silicified sections. Little pyrite. Lost core: 794.0 - 795.0; 795.5 - 797.5		5.0 5.0 5.0	.02 .03 .02		720.0 - 725.0 730.0 - 735.0 745.0 - 750.0
816.3	817.7	Basic Syenite		5.0	.02		815.0 - 820.0
817.7	864.0	Syenite - Slightly carbonatized and silicified, coarse grained syenite. Calcite stringers. Little pyrite.					
864.0	867.0	Syenite - Slightly silicified, brecciated, carbonatized syenite. Little pyrite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 57 Sheet No. 4

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing North 10° East

	Dip
0	50°
75'	49°
275'	49°
475'	44°
675'	44°30'
875'	44°

Total Footage 999.8'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
867.0	877.0	Carbonate - Partially silicified, carbonatized tuff(?) few small quartz stringers. Calcite stringers. Few stringers of feldspar porphyry. Fair pyrite.		5.0	.04		865.0 - 870.0
				5.0	.05		870.0 - 875.0
877.0	894.5	Porphyritized Andesite?- Cut by dykes and stringers of chloritized feldspar porphyry. Few small quartz stringers. Little pyrite.		5.0	.07		875.0 - 880.0
894.5	900.0	Basic Syenite					
900.0	925.3	Porphyritized Andesite - Same as 877.0 - 894.5					
925.3	928.7	Lamprophyre					
928.7	944.2	Lamprophyre - with some carbonatization and porphyritization cut by small dykes of feldspar porphyry					
944.2	957.0	Porphyry - Slightly silicified feldspar porphyry. Little pyrite		5.5	.02		944.5 - 950.0
				5.0	.02		950.0 - 955.0
957.0	962.5	Porphyritized Andesite - Silicified, syenitized, spherulitic andesite cut by small dykes of syenitized basic syenite. Few stringers of feldspar porphyry. Few small quartz stringers. Little pyrite.		5.0	.02		955.0 - 960.0
				2.5	.08		960.0 - 962.5
962.5	971.0	Andesite - Slightly carbonatized and syenitized spherulitic andesite cut by small dykes of syenitized basic syenite. Few stringers of feldspar porphyry. Few small quartz stringers. Little pyrite		4.5	.02		962.5 - 967.0
971.0	972.5	Basic Syenite - Silicified, porphyritized basic syenite. Little pyrite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 57 Sheet No. 5

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing North 10° East

	Dip
0	50°
75'	49°
275'	49°
475'	44°
675'	44°30'
875'	44°

Total Footage 999.8'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by C. F. Cockshutt
Logged by

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
972.5	976.8	Basic Syenite - Slightly syenitized basic syenite with shreds of altered andesite (?) cut by stringers of feldspar porphyry. Little pyrite.					
976.8	978.1	Porphyry - Silicified feldspar porphyry. Little pyrite.					
978.1	979.5	Basic Syenite					
979.5	981.0	Andesite - Carbonatized, slightly syenitized schisted andesite?					
981.0	988.8	Porphyritized Andesite - Cut by dykes of altered basic syenite and stringers of feldspar porphyry					
988.8	995.3	Andesite - Slightly syenitized andesite.					
995.3	999.8	Lamprophyre - Fine grained lamprophyre(?), considerable fine specularite.					
999.8		END OF HOLE					

SUMMARY

31.0 - 56.5 — Carbonate	944.2 - 957 — Porphyry
56.5 - 295.5 — Talc	957.0 - 962.5 — Porph. Andesite
295.5 - 499.5 — Porphyry	962.5 - 981.0 — Andesite
499.5 - 630.1 — Talc	981.0 - 988.8 — Porph. Andesite
630.1 - 691.3 — Carbonate	988.8 - 995.3 — Andesite.
691.3 - 696.6 — Porph. Tuff	995.3 - 999.8 — Lamprophyre.
696.6 - 867.0 — Syenite	
867.0 - 877.0 — Carbonate	
877.0 - 925.3 — Porph. Andesite	
925.3 - 944.2 — Lamprophyre	

Date of Examination

DIAMOND DRILL RECORD

Hole No. 58 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guiboard Twps.
Location

Latitude N. 5302.39
Departure E. 12571.94
Bearing South 41°16' West

Dip 0 50°

Total Footage 615'

Elev. Collar 9991.01
Datum
Date Started July 30, 1946
Date Completed August 10, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	24.0	Casing					
24.0	230.5	Diorite - Fine to medium to fine grained andesite or diorite. Lost core: 75.0 - 76.0: 77.1 - 79.6					
230.5	243.5	Andesite - Slightly silicified, fractured, irregularly syenitized, fine grained, spherulitic andesite. Few stringers of feldspar porphyry. Few small quartz stringers. Fair pyrite.					
243.5	260.0	Andesite - Fine grained spherulitic andesite. Probable flow top at 260.0.					
260.0	272.0	Andesite - Fine grained andesite cut by few small stringers of feldspar porphyry.					
272.0	302.5	Andesite - Medium grained andesite or diorite with slightly silicified sections. This rock has a mottled appearance like a diabase and the actual grain size is quite small.					
302.5	312.0	Andesite - Fine grained, spherulitic andesite. Probable flow top at 310.0					
312.0	319.2	Andesite - Fine grained andesite or diorite.					
319.2	327.5	Andesite - Medium grained andesite or diorite similar to 272 - 302.					
327.5	348.0	Andesite - Fine grained, spherulitic andesite cut by three small lamprophyre dykes between 330 and 337					
348.0	359.5	Andesite - Fine grained, spherulitic andesite with short silicified, syenitized sections. Stringers of feldspar prophyry.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 58 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 41° 16' West

Dip 0 50°
Total Footage 615'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
359.5	369.0	Andesite - Slightly silicified and carbonatized slightly syenitized andesite(?) Two small dykes of carbonatized lamprophyre. Little pyrite.		5.0	.07		365.5 - 370.5
369.0	374.5	Porphyritized Andesite - Syenitized andesite (?) few small quartz stringers. Little pyrite.		5.3	.13		370.5 - 375.8
374.5	414.0	Porphyritized Andesite(?)- Cut by dykes and stringers of feldspar porphyry. Little pyrite		2.2	.12		375.8 - 378.0
				3.0	.06		378.0 - 381.0
				5.0	.02		381.0 - 386.0
				5.0	.02		386.0 - 391.0
				5.0	.04		395.5 - 400.5
				1.8	.09		400.5 - 402.3
				5.0	.02		402.3 - 407.3
				4.6	.02		407.3 - 411.9
				1.8	.18		411.9 - 413.7
414.0	420.0	Lamprophyre - Dark syenitized and carbonatized lamprophyre cut by stringers of feldspar porphyry. Little pyrite.		5.8	.26		413.7 - 419.5
420.0	467.5	Porphyritized Andesite - Slightly silicified porphyritized andesite (?) with dykes and stringers of carbonatized feldspar porphyry. Few small quartz stringers. Little pyrite.		5.0	.03		444.5 - 449.5
				5.0	.03		449.5 - 454.5
				5.0	.02		454.5 - 459.5
				4.2	.18		464.5 - 468.7
467.5	551.3	Syenite - Medium to coarse grained syenite with silicified sections and brecciated sections. Few small quartz stringers. Little pyrite. 504-505 is leached		4.9	.03		507.7 - 512.6
				4.9	.08		512.6 - 517.5
				4.5	.54		517.5 - 522.0
				4.5	.10		522.0 - 526.5
				4.4	.10		526.5 - 530.9
				4.9	.20		530.9 - 535.8

Date of Examination

DIAMOND DRILL RECORD

Hole No. 58 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure South 41°16' West
Bearing

Dip 0 50°

Total Footage 615'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. C. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
467.5	551.3	(continued)		5.0	.22		535.8 - 540.8
				4.6	.17		540.8 - 545.4
				4.1	.04		545.4 - 549.5
				1.8	.04		549.5 - 551.3
551.3	559.8	Carbonate - Brecciated carbonatized agglomerate. Good fine pyrite		3.2	.02		551.3 - 554.5
				5.3	.04		554.5 - 559.8
559.8	563.6	Basic Syenite - Few small quartz stringers. Little pyrite.		3.8	.04		559.8 - 563.6
563.6	579.0	Carbonate - Slightly talcose, brecciated, carbonatized agglomerate. Cut by small dykes of basic syenite. Fair pyrite		5.3	.03		563.6 - 568.9
				5.6	.03		568.9 - 574.5
				3.0	.03		574.5 - 577.5
				1.5	.02		577.5 - 579.0
579.0	600.5	Carbonate - Slightly silicified, carbonatized andesite (?) and dykes of basic syenite. Few small quartz stringers. Good pyrite.		5.0	.03		593.5 - 598.5
600.5	605.5	Talc - Schisted, highly talcose, brecciated carbonate. Fair pyrite.					
605.5	615.0	Talc - Talc breccia					
615.0		END OF HOLE					
		SUMMARY					
		24.0 - 230.5 -- Diorite					
		230.5 - 369.0 -- Andesite					
		369.0 - 467.5 -- Porphyritized Andesite					
		467.5 - 551.3 -- Syenite					
		551.3 - 600.5 -- Carbonate					
		600.5 - 615.0 -- Talc					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 59 Sheet No. 1

KELWREN PROPERTY, Hislop & Guibord Twps.

Property Surface
Location

Latitude N. 4765.25
Departure E. 13508.17
Bearing South 13° West

	Dip
0	51°
200'	45°
400'	44°45'
600'	46°45'
Total Footage 778'	

Elev. Collar 9983.97
Datum
Date Started August 13, 1946
Date Completed August 27, 1946
Drilled by C. F. Cockshutt
Logged by

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	55.0	Casing					
55.0	150.0	Andesite - Fine grained, slightly silicified and carbonatized andesite. Few small quartz stringers. Little pyrite.					
150.0	195.5	Andesite - Fine grained, slightly silicified and carbonatized andesite(?) Few small stringers of feldspar porphyry. Few small quartz stringers. Little pyrite.					
195.5	214.5	Porphyritized Andesite - Syenitized, carbonatized andesite(?) short silicified sections. Few small quartz stringers. Little pyrite. Few short sections have good pyrite.		5.2	.02		208.8 - 214.0
214.5	248.0	Diorite - Carbonatized, slightly syenitized diorite or andesite. Little pyrite.		5.0	.08		227.7 - 232.7
				4.5	.02		232.7 - 237.2
				5.8	.15		237.2 - 243.0
248.0	315.5	Porphyritized Andesite - Syenitized, slightly carbonatized and silicified sections. Little pyrite Few short sections have good pyrite.		4.7	.02		247.0 - 251.7
				4.9	.15		251.7 - 256.6
				3.9	.02		256.6 - 260.5
				4.9	.02		263.8 - 268.7
				3.7	.02		268.7 - 272.4
				6.1	.03		272.4 - 278.5
				5.0	.02		288.5 - 293.5
				4.6	.03		308.0 - 312.6
				5.0	.02		312.6 - 317.6
315.5	389.0	Porphyritized Andesite - Silicified, carbonatized syenitized andesite or tuff. Cut by small dykes and stringers of altered porphyry Few small		4.7	.02		317.6 - 322.3
				4.4	.03		322.3 - 326.7

Date of Examination

DIAMOND DRILL RECORD

Hole No. 59 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure South 13° West
Bearing

	Dip
0	51°
200'	45°
400'	44°45'
600'	46°45'
Total Footage 778'	

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
315.5	389.0	(continued)		3.4	.05		331.7 - 335.1
		quartz stringers. Fair pyrite.		2.4	.05		335.1 - 337.5
				5.0	.02		337.5 - 342.5
				4.9	.03		365.8 - 370.7
				5.5	.04		374.5 - 380.0
389.0	391.4	Basic Syenite - Slightly carbonatized basic syenite					
391.4	403.7	Porphyritized Andesite - Fine grained, silicified, syenitized andesite (?) Little pyrite.					
403.7	423.7	Basic Syenite - Medium grained, syenitized basic syenite cut by stringers of feldspar porphyry. Little pyrite.					
423.7	442.0	Porphyritized Andesite - Silicified, syenitized andesite (?) cut by stringers of feldspar porphyry. Few small quartz stringers. Little pyrite.		5.3	.03		432.3 - 437.6
				5.4	.02		437.6 - 443.0
442.0	443.0	Basic Syenite					
443.0	447.6	Porphyritized Agglomerate - Silicified, brecciated, carbonatized and syenitized agglomerate (?) Fair pyrite		5.0	.04		443.0 - 448.0
447.6	453.2	Basic Syenite - Syenitized basic syenite with inclusions of syenitized tuff, cut by small dykes of carbonatized feldspar porphyry. Little pyrite.					
453.2	501.0	Syenite - Medium grained syenite with inclusions of syenitized agglomerate(?) and dykes of basic syenite. Little pyrite.		5.0	.02		477.0 - 482.0
				5.0	.02		482.0 - 487.0
				4.5	.03		492.0 - 496.5
				4.0	.03		496.5 - 500.5

Date of Examination

DIAMOND DRILL RECORD

Hole No. 59 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 13° West

	Dip
0	51°
200'	45°
400'	44°45'
600'	46°45'

Total Footage 778'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
501.0	657.6	Syenite - Coarse grained, slightly carbonatized syenite, short silicified sections. Fair pyrite.					
		Chloritic and graphitic slips at 15° to core at 557.5, 564.0 and 573.5. Lost core 628 - 639.		5.1	.03		569.3 - 574.4
657.6	669.0	Carbonate - Silicified, brecciated carbonate with a little green mariposite. Probably originally feldspar porphyry		5.0	.02		662.6 - 667.6
				2.7	.04		667.6 - 670.3
669.0	688.2	Carbonate - Partially silicified carbonate breccia and schist. Probably originally agglomerate cut by dykes of feldspar porphyry. Fair pyrite.		5.3	.09		670.3 - 675.6
				2.6	.09		675.6 - 678.2
				5.3	.27		678.2 - 683.5
				4.7	.03		683.5 - 688.2
688.2	701.0	Porphyry - Medium grained feldspar porphyry with silicified sections. Little pyrite.		1.3	.03		698.8 - 700.1
				3.7	.12		700.1 - 703.8
701.0	723.0	Carbonate - Sheared carbonatized agglomerate. First foot is silicified. Few small quartz stringers. Fair pyrite. Lost core 710.2 - 722.0		3.7	.03		703.8 - 707.0
				3.2	.05		707.0 - 710.2
723.0	732.5	Carbonate - Silicified, carbonatized and syenitized agglomerate cut by dykes of brecciated, silicified and carbonatized feldspar porphyry. Few small quartz stringers. Fair pyrite.		5.0	.03		722.0 - 727.0
				5.5	.03		727.0 - 732.5
732.5	740.7	Agglomerate - Brecciated, chloritized agglomerate. Little pyrite. Lost core 735.0 - 737.0					
740.7	742.0	Porphyry - Silicified, brecciated, chloritized feldspar porphyry. Fair pyrite.		1.3	.01		740.7 - 742.0

Date of Examination

DIAMOND DRILL RECORD

Hole No. 59 Sheet No. 4

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 13° West

	Dip
0	51°
200'	45°
400'	44°45'
600'	46°45'
Total Footage 778'	

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
742.0	778.0	Talc Schist - And breccia. Little irregular carbonate. Calcite stringers. Lost core: 759.0 - 760.0: 767.0 - 768.0: 774.2 to 775.5: 777.0 - 778.0					
778.0		END OF HOLE					
		SUMMARY					
		55.0 - 195.5 -- Andesite					
		195.5 - 214.5 -- Porphyritized Andesite					
		214.5 - 248.0 -- Diorite					
		248.0 - 403.7 -- Porphyritized Andesite					
		403.7 - 423.7 -- Basic Syenite					
		423.7 - 443.0 -- Porphyritized Andesite					
		443.0 - 453.2 -- Porphyritized Tuff					
		453.2 - 657.6 -- Syenite					
		657.6 - 688.2 -- Carbonate					
		688.2 - 701.0 -- Porphyry					
		701.0 - 732.5 -- Carbonate					
		732.5 - 742.0 -- Agglomerate					
		742.0 - 778.0 -- Talc					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 60 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location

Latitude N. 5455.02
Departure E. 11939.09
Bearing South 10° West

	Dip
0	46°
200'	43°30'
400'	44°

Total Footage 628.3

Elev. Collar 9990.99
Datum
Date Started August 13, 1946
Date Completed August 23, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	37.0	Casing					
37.0	93.8	Porphyritized Andesite - Slightly silicified and chloritized brecciated, syenitized andesite. Few stringers of feldspar porphyry. Fair pyrite		2.6	.02		38.6 - 41.2
				4.2	.02		41.2 - 45.4
				4.9	.02		45.4 - 50.3
				5.0	.02		50.3 - 55.3
				4.2	.03		55.3 - 59.5
				5.3	.02		59.5 - 64.8
93.8	103.8	Basic Syenite					
103.8	120.0	Porphyritized Andesite - Same as 37.0 @ 93.8. Cut by dykes and stringers of medium grained feldspar porphyry. Few quartz stringers at low angle to core. Fair pyrite. Lost core 113.0-114.		4.2	.06		103.8 - 108.0
				4.8	.04		108.0 - 112.8
				3.1	.04		114.0 - 117.1
				5.3	.02		117.1 - 122.4
120.0	141.4	Porphyritized Diorite - Slightly carbonated, irregularly syenitized, fine grained diorite(?) May be tuff from 137.0. Fair pyrite. Lost core: 131.5 - 132.7					
141.4	142.6	Lamprophyre - Porphyritized lamprophyre					
142.6	146.5	Porphyritized Tuff - Last two feet shows strong chlorite and graphite slips. Probable fault. Little pyrite.		4.5	.03		142.0 - 146.5
146.5	184.5	Syenite - Coarse grained, slightly brecciated and carbonatized syenite. Few chlorite and graphite slips. Little pyrite.					
184.5	236.0	Carbonate - Silicified, brecciated carbonate. Stringers of quartz and white carbonate. Fair pyrite.		4.5	.04		184.6 - 189.1
				5.0	.02		189.1 - 194.1

Date of Examination

DIAMOND DRILL RECORD

Hole No. 60 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10° West

	Dip
0	46°
200'	43°30'
400'	44°

Total Footage 628.3

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
184.5	236.0	(continued)		4.8	.02		198.7 - 203.5
				4.3	.03		203.5 - 207.8
				5.0	.02		207.8 - 212.8
				5.0	.15		217.8 - 222.8
				4.7	.04		222.8 - 227.5
				3.0	.04		227.5 - 230.5
				3.3	.16		230.5 - 233.8
				4.2	.12		233.8 - 238.0
				5.0	.06		238.0 - 243.0
236.0	244.0	Carbonate - Slightly talcose, silicified and carbonatized, brecciated agglomerate. One small dyke of brecciated, silicified feldspar porphyry Fair pyrite.					
244.0	264.0	Talc Schist - Originally agglomerate, some irregular carbonate. Little pyrite.					
264.0	373.6	Talc - Carbonate breccia and schist. Little pyrite Lost core: 332.0 - 334.0					
373.6	381.9	Porphyry - Medium grained, silicified and carbonatized feldspar porphyry. Few small quartz stringers. Fair pyrite.					
381.9	410.1	Talc - Same as 264.0 - 373.6 Lost core: 396.6 - 399.6: 406.0 - 407.0					
410.1	513.0	Porphyry - Medium grained, grey feldspar porphyry Silicified and carbonatized in places. Little pyrite. Lost Core 507.5 - 508.5					
513.0	587.0	Talc - Chlorite Schist with irregular carbonate stringers. Lost core 581.5 - 583.0					
587.0	589.0	Porphyry - Brecciated, carbonatized and silicified grey feldspar porphyry. Little pyrite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 60 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10° West

	Dip
0	46°
200'	43° 30'
400'	44°

Total Footage 628.3'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
589.0	596.6	Talc - Same as 513.0 - 587.0					
596.6	622.8	Porphyry - Slightly carbonatized, fine grained, grey feldspar porphyry. Fair pyrite. Lost Core -- 601.4 - 602.3: 610.9 - 611.5					
622.8	627.5	Talc - Fault zone(?) Lost core -- 623.0 - 626.0					
627.5	628.3	Talc - Talc schist with irregular carbonate. Fair pyrite.					
628.3		END OF HOLE					
		SUMMARY					
		37.0 - 120.0 -- Porphyritized Andesite					
		120.0 - 141.4 -- Porphyritized Diorite					
		141.4 - 146.5 -- Porphyritized Tuff					
		146.5 - 184.5 -- Syenite					
		184.5 - 244.0 -- Carbonate					
		244.0 - 373.6 -- Talc					
		373.6 - 381.9 -- Porphyry					
		381.9 - 410.1 -- Talc					
		410.1 - 513.0 -- Porphyry					
		513.0 - 596.6 -- Talc					
		596.6 - 622.8 -- Porphyry					
		622.8 - 628.3 -- Talc					

Date of Examination

D.H #60

Location = 5,455 N. 11,939 E

Bearing = 190°

Collar = 46°

(200) 43°

(400) 44°

Sample 8 at 318

grained volcanic, (cherty).

→128 ± Same as above to 120 - Buff-coloured, cherty volcanic. 120 to end of box increased purplish colouration.

→152 : Change to greenish-buff cherty massive volcanic. At 133 purple colouration and at 136 back to green buff, fine-medium grained rock. Continues to 148. At 148, vein material, to 151. ~~Massive~~ ~~pyrite~~ present. At 151 back to green buff fine-medium grained cherty volcanic.

→176 ± Same but becoming rustier to 167. Transition to massive dark grey rusted fine-medium grained volcanic. Relatively unaltered and darker colour than above. characteristic rusty buff At 174 change to buff, rusty rock.

→201 : Same rusty buff cherty, volcanic.

→225 ± All split : change to buff cherty volcanic, continues to 213. In places pyritized. At 213. Transition to dark relatively unaltered medium grained volcanic. This to 218. Change to buff cherty volcanic. 224 change to massive relatively unaltered medium grain volcanic to end of box.

→249 : Same as before, massive dark grey medium-grained volcanic to 241. At 241 there is a transition

→ 541: Same to 539. Last 2 feet grey-buff, fine-grained fragmental (3)
→ 566: First foot same as above. Change at 582 to coarse pink syenite To end of box.
→ 591: coarse pink syenite
→ missing boxes (2)
→ 665: chloritized, brecciated lava To 646
Change at 646 ; medium grained lava massive, Slightly chloritized-T.D end of box
→ 681: medium grained massive lava, dark grey, spotted appearance
→ 715: Same. Numerous quartz stringers.
→ 739: Medium T.D medium fine-grained massive lava. Numerous quartz stringers and threads.
→ 764: Same as above becoming highly chloritic towards end of box. Numerous quartz stringers.
→ 768: highly chloritized lava in places grading into chlorite schist. Spherulitic (3) horizon at 768. See sample
→ 803: highly chloritic lava, brecciated in places.

END OF HOLE

(From Kelore log)

→ 602 is end of syenite: Change to Silicified breccia 609 change to feldspar porphyry 624 chloritic lava

DIAMOND DRILL RECORD

Hole No. 61 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 5365.40
Departure E. 11721.35
Bearing North 7° 10' East

	Dip
0	48°
200'	46°
300'	43°

Total Footage 360'

Elev. Collar 9993.33
Datum
Date Started August 26, 1946
Date Completed August 30, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	14.0	Casing					
14.0	104.5	Porphyritized Andesite - Syenitized, spherulitic andesite, with short brecciated sections. Few small stringers of feldspar porphyry. Little pyrite. Lost core: 67.3 - 68.0: 82.5 - 83.5: 103.0 to 104.0		4.5	.03		24.0 - 28.5
				4.5	.02		28.5 - 33.0
				5.0	.03		33.0 - 38.0
				4.3	.04		68.0 - 72.3
				5.4	.05		77.1 - 82.5
				2.5	.02		83.5 - 86.0
				5.2	.02		86.0 - 91.2
104.5	109.5	Porphyritized Andesite - Silicified, carbonatized and syenitized spherulitic andesite (large spherules). Could be a flow top.					
109.5	116.0	Porphyritized Andesite - Same as 14.0 - 104.5					
116.0	131.2	Porphyritized Andesite - Syenitized, spherulitic andesite. Few small stringers of feldspar porphyry. Chlorite slips. Fair pyrite.		5.0	.06		115.6 - 120.6
				5.6	.07		120.6 - 126.2
				5.0	.06		126.2 - 131.2
131.2	164.5	Porphyritized Andesite - Same as above. Little pyrite.					
164.5	172.0	Porphyritized Andesite - Silicified, syenitized spherulitic andesite. Fair pyrite.		5.4	.08		164.6 - 170.0
172.0	194.0	Porphyritized Andesite - Slightly silicified, syenitized spherulitic andesite with less altered chloritized sections. Few small stringers of feldspar porphyry. Little pyrite. Lost core 184.5 - 185.0		5.0	.02		170.0 - 175.0
				4.4	.03		190.0 - 194.4
194.0	260.0	Porphyritized Andesite - Silicified, syenitized, fine grained andesite(?) with brecciated sections. Many chlorite slips. Some chloritized		5.0	.02		194.4 - 199.4
				5.0	.08		204.5 - 209.5

Date of Examination

DIAMOND DRILL RECORD

Hole No. 61 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing North 7°10' East

	Dip
0	48°
200'	46°
300'	43°

Total Footage 360'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
194.0	260.0	(continued)		4.6	.05		209.5 - 214.1
		sections. Few small quartz stringers. Fair		4.3	.02		214.1 - 218.4
		pyrite.		4.9	.06		218.4 - 223.3
				4.7	.02		223.3 - 228.0
				5.0	.04		228.0 - 233.0
				4.9	.07		242.6 - 247.5
				4.7	.02		247.5 - 252.2
260.0	286.4	Diorite - Re-crystallized andesite or diorite					
		with ¼" needles of feldspar. Irregular pink					
		calcite. Little pyrite. Lost core 281.5 - 283.0					
286.4	322.0	Andesite - Fine grained spherulitic andesite					
		(large and small spherules) slightly silicified		5.0	.04		296.0 - 301.0
		and syenitized short brecciated carbonatized		5.0	.02		301.0 - 306.0
		sections with fair pyrite. Short recrystallized					
		sections.					
322.0	360.0	Andesite - Fine grained, dark, slightly silicified					
		andesite pillow lava with bands of small					
		amygdules, short syenitized sections with quartz		1.0	.02		354.3 - 355.3
		stringers and good pyrite.					
		Lost core: 336.0 - 339.0: 357.7 - 360.0					
360.0		END OF HOLE					
		SUMMARY					
		14.0 - 260.0 -- Porphyritized Andesite					
		260.0 - 286.4 -- Diorite					
		286.4 - 360.0 -- Andesite.					

Date of Examination

T-74

DIAMOND DRILL RECORD

Hole No. 62 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 4635.30
Departure E. 12291.37
Bearing South 10°45' West

	Dip
0	46°
200'	36°
400'	24°30'
600'	12°30'

Total Footage 602'

Elev. Collar 9991.65
Datum
Date Started August 29, 1946
Date Completed September 7, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	41.0	Casing					
41.0	42.0	Carbonate - Chlorite - carbonate schist					
42.0	44.0	Porphyry - Carbonatized grey feldspar porphyry with stringers of quartz and carbonate					
44.0	47.9	Talc - Talc-chlorite schist and white carbonate		4.2	.02		43.7 - 47.9
47.9	54.6	Basic Syenite - Schisted chloritized basic syenits(?)					
54.6	66.0	Carbonate - Somewhat brecciated carbonate with quartz and white carbonate stringers. Little pyrite.		3.1	.02		57.6 - 60.7
				5.0	.02		60.7 - 65.7
66.0	91.9	Carbonate - Green carbonate. This is chiefly white carbonate with many light green slips. Rusty leached sections.		4.8	.02		65.7 - 70.5
91.9	93.9	Porphyry - Carbonatized fine grained syenite. Few small quartz stringers					
93.9	103.0	Carbonate - Chlorite-carbonate schist					
103.0	109.5	Andesite - Slightly carbonatized and syenitized fine grained andesite (?) Irregular carbonate stringers					
109.5	118.5	Porphyry - Brecciated carbonatized grey feldspar porphyry					
118.5	124.5	Carbonate - Green carbonate-chlorite schist					
124.5	210.5	Andesite - Slightly carbonatized, fine grained, andesite. Few small stringers of quartz and carbonate. Increasing grain size decreasing carbonate.					
210.5	223.0	Andesite - Medium grained andesite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 62 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10°45' West

	Dip
0	46°
200'	36°
400'	24°30'
600'	12°30'

Total Footage 602'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
223.0	254.3	Andesite - Fine grained andesite with schisted sections. Variable grain size due to alteration in some sections.					
254.3	260.0	Carbonate - Chlorite-carbonate schist					
260.0	300.5	Carbonate - Greyish and yellowish waxey carbonate-sericite schist. Probably originally grey porphyry and andesite. Stringers of white carbonate. Little pyrite.					
300.5	308.5	Andesite- Slightly carbonatized andesite. Few small stringers of quartz and carbonate. Little pyrite.					
308.5	332.0	Carbonate - Greyish and yellowish carbonate with a little sericite. Short silicified sections. Small veins and stringers of white carbonate and quartz. Good pyrite in several narrow bands. very little elsewhere.					
332.0	340.7	Carbonate - Yellowish and reddish carbonate					
340.7	342.9	Carbonate - Carbonatized andesite.					
342.9	346.8	Carbonate - Reddish carbonate with a small inclusion of carbonatized andesite.					
346.8	357.0	Andesite - Slightly carbonatized, fine grained andesite(?)					
357.0	380.8	Agglomerate - Slightly carbonatized agglomerate and tuff.					
380.8	384.5	Carbonate - Brown, brecciated, slightly silicified carbonate. Little chlorite					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 62 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10°45' West

	Dip
0	46°
200'	36°
400'	24°30'
600'	12°30'

Total Footage 602'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
384.5	393.0	Andesite - Slightly carbonatized, schisted andesite or tuff.					
393.0	424.5	Carbonate - Grey carbonate - sericite schist with stringers of white carbonate and quartz. Fair pyrite.					
424.5	434.0	Carbonate - Grey carbonate. Fair pyrite					
434.0	440.0	Carbonate - Carbonate-sericite schist. Originally agglomerate. Little pyrite.					
440.0	490.9	Carbonate - Brownish and greyish, slightly silicified and brecciated carbonate. Little pyrite.					
490.9	499.2	Carbonate - Reddish-brown carbonate. Probably originally basic syenite. Small white carbonate stringers. Little pyrite.					
499.2	527.0	Carbonate - Same as 440.0 - 490.9					
527.0	531.0	Carbonate - Slightly silicified and brecciated, reddish carbonatized syenite(?)					
531.0	532.6	Andesite - Brecciated, silicified, slightly carbonatized mottled dark rock. May be spherulitic andesite.					
532.6	577.0	Carbonate - Carbonate Schist with a little sericite. Very little pyrite.					
577.0	582.0	Lost core.					
582.0	584.6	Agglomerate - Partially carbonatized agglomerate					
584.6	593.0	Lost core					
593.0	602.0	Andesite - Fine grained andesite(?)					
602.0		END OF HOLE					

Date of Examination

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DIAMOND DRILL RECORD

Hole No. 62 Sheet No. 4

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10°45' West

	Dip
0	46°
200'	36°
400'	24°30'
600'	12°30'

Total Footage 602'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
		SUMMARY					
		41.0 - 44.0 -- Carbonate					
		44.0 - 54.6 -- Talc					
		54.6 - 103.0 -- Carbonate					
		103.0 - 109.5 -- Andesite					
		109.5 - 124.5 -- Carbonate					
		124.5 - 254.3 -- Andesite					
		254.3 - 300.5 -- Carbonate					
		300.5 - 308.5 -- Andesite					
		308.5 - 346.8 -- Carbonate					
		346.8 - 357.0 -- Andesite					
		357.0 - 380.8 -- Agglomerate					
		380.8 - 384.5 -- Carbonate					
		384.5 - 393.0 -- Andesite					
		393.0 - 577.0 -- Carbonate					
		577.0 - 593.0 -- Agglomerate					
		593.0 - 602.0 -- Andesite.					

Date of Examination

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DIAMOND DRILL RECORD

Hole No. 63 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location

Latitude N. 5,365.47
Departure E. 11,715.78
Bearing North 89°20' West.

	Dip
0	44°
200'	42°
400'	40°30'
525'	40°30'

Total Footage 525'

Elev. Collar 9993.39
Datum
Date Started August 31, 1946
Date Completed September 7, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	12.0	Casing.					
12.0	19.8	Porphyritized Andesite - Syenitized, spherulitic andesite.					
19.8	36.0	Basic Syenite - Contacts at 25° and 30° to core.					
36.0	79.0	Porphyritized Andesite - Syenitized, spherulitic andesite with short silicified sections. Few small stringers of feldspar porphyry. Strong chlorite slips. Little pyrite.		5.0	.03		36.0 - 41.0
				5.0	.10		41.0 - 46.0
				4.6	.02		46.0 - 50.6
				5.0	.02		50.6 - 55.6
				4.9	.04		55.6 - 60.5
				4.7	.02		60.5 - 65.2
				5.0	.04		65.2 - 70.2
				5.0	.02		70.2 - 75.2
79.0	88.0	Andesite - Slightly syenitized, spherulitic andesite. Few small stringers of feldspar porphyry.					
88.0	185.3	Porphyritized Andesite - Syenitized, spherulitic andesite, few small stringers of feldspar porphyry. Short silicified sections. Few small quartz stringers. Little pyrite. Lost core: 158.5 - 159.0		4.7	.02		94.5 - 99.2
				5.0	.02		99.2 - 104.2
				5.0	.02		104.2 - 109.2
				4.7	.02		126.8 - 131.5
				2.5	.06		156.0 - 158.5
				2.1	.06		159.0 - 161.0
				4.8	.03		161.0 - 165.9
				4.8	.02		165.9 - 170.7
				5.1	.02		175.7 - 180.8
				4.6	.03		180.8 - 185.4
185.3	202.0	Porphyritized Andesite - Syenitized, spherulitic andesite with brecciated sections and silicified sections. Dykes and stringers of carbonatized and silicified medium grained feldspar porphyry. Few small quartz stringers. Fair pyrite.		5.0	.04		185.4 - 190.4
				5.0	.07		190.4 - 195.4
				4.6	.05		195.4 - 200.0

Date of Examination

DIAMOND DRILL RECORD

Hole No. 63 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing North 89°20' West

	Dip
0	44°
200'	42°
400'	40°30'
525'	40°30'

Total Footage 525'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by CL F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
202.0	230.0	Porphyritized Diorite - Syenitized, fine grained		5.0	.07		200.0 - 205.0
		diorite or andesite with brecciated and silici-		5.0	.06		205.0 - 210.0
		fied sections. Dykes and stringers of feldspar		3.9	.03		216.3 - 220.2
		porphyry. Few small quartz stringers. Fair		4.4	.05		220.2 - 224.6
		pyrite. Lost core: 214.2 - 216.3		5.0	.02		224.6 - 229.6
230.0	321.0	Diorite - Fine grained, recrystallized diorite(?)		4.8	.03		244.0 - 248.8
		with short syenitized sections. Many small dykes		5.0	.03		248.8 - 253.8
		and stringers of feldspar porphyry. Few small		5.5	.02		267.8 - 273.3
		quartz stringers. Little pyrite		4.4	.02		316.7 - 321.1
321.0	342.0	Lamprophyre - Medium grained "diabasic" lamprophyre,					
		somewhat syenitized. Stringers of feldspar por-					
		phyry					
342.0	355.6	Porphyritized Tuff - Fine grained, dark, syeni-		5.6	.03		350.0 - 355.6
		tized and silicified tuff(?)					
355.6	362.0	Lamprophyre - Fine grained lamprophyre					
362.0	382.5	Syenite - Coarse grained, slightly carbonatized		2.6	.08		362.0 - 364.6
		feldspar porphyry. First two feet silicified		4.9	.02		364.6 - 369.5
		and brecciated with irregular white quartz and					
		carbonate. Little pyrite. Inclusions and					
		brecciation in last ten feet.					
382.5	389.0	Carbonate - Grey and reddish, silicified carbonate					
		breccia. Few small quartz stringers. Probably		5.0	.05		384.0 - 389.0
		originally agglomerate. Fair pyrite.					
389.0	488.5	Carbonate - Grey carbonate breccia with a little		4.5	.09		389.0 - 393.5
		green mariposite. Short silicified sections.		4.5	.03		393.5 - 398.0
		Small quartz and carbonate stringers. Propably		4.2	.02		412.8 - 417.0
		agglomerate. Fair pyrite.		5.0	.02		417.0 - 422.0

Date of Examination

DIAMOND DRILL RECORD

Hole No. 63 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing North 89°20' West

	Dip
0	44°
200'	42°
400'	40°30'
525'	40°30'

Total Footage 525'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
389.0	488.5	(continued)		5.0	.02		422.0 - 427.0
				4.5	.02		427.0 - 431.5
				5.0	.03		431.5 - 436.5
				5.0	.02		436.5 - 441.5
				4.5	.02		441.5 - 446.0
				5.0	.02		446.0 - 451.0
				4.3	.02		476.0 - 480.3
				2.7	.08		484.4 - 487.1
488.5	496.5	Agglomerate - Sheared, slightly talcose, carbonatized, brecciated agglomerate. Little pyrite		2.9	.02		487.1 - 490.0
496.5	525.0	Talc - Talc-carbonate schist. Originally agglomerate.					
525.0		END OF HOLE					
		SUMMARY					
		12.0 - 19.8 -- Porphyritized Andesite					
		19.8 - 36.0 -- Basic Syenite					
		36.0 - 79.0 -- Porphyritized Andesite					
		79.0 - 88.0 -- Andesite					
		88.0 - 202.0 -- Porphyritized Andesite					
		202.0 - 230.0 -- Porphyritized Diorite					
		230.0 - 321.0 -- Diorite					
		321.0 - 342.0 -- Lamprophyre					
		342.0 - 355.6 -- Porphyritized Tuff					
		355.6 - 362.0 -- Lamprophyre					
		362.0 - 382.5 -- Syenite					
		382.5 - 488.5 -- Carbonate					
		488.5 - 496.5 -- Agglomerate					
		496.5 - 525.0 -- Talc					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 64 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 5,366.86
Departure E. 11,720.90
Bearing South 11°45' West

	Dip
0	46° 00
200'	40° 30'
393'	44°

Total Footage 393'

Elev. Collar 9993.45
Datum
Date Started September 9, 1946
Date Completed September 14, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	29.0	Casing					
29.0	42.0	Basic Svenite - Carbonatized, grey, fine grained, basic syenite with feldspar phenocrysts. Rusty and badly broken at first. Lost core 31.7 - 36.					
42.0	61.5	Porphyritized Andesite - Silicified, syenitized spherulitic andesite. Many chlorite slips.		2.6	.03		43.2 - 45.8
		Brecciated sections. Few small quartz stringers.		4.9	.03		52.5 - 57.4
		Little pyrite. Lost core -- 45.8 - 46.5		4.1	.03		57.4 - 61.5
61.5	360.1	Talc - Talc schist and breccia with a little irregular carbonate. Looks like original andesite to 340 feet, may be agglomerate from there on. Lost core: 78.0 - 78.7; 81.3 - 83.0; 89.6 - 90.2; 150.5 - 151.5; 161.9 - 163.0; 182.3 - 183.0; 218.0 - 224.0; 233.3 to 234.5; 242.0 - 245.0; 260.6 to 261.5; 264.5 - 265.7; 274.2 - 276.0; 313.5 - 314.3; 323.3 - 325.0					
360.1	374.7	Porphyry - Highly siliceous, greyish pink feldspar porphyry. This looks like a siliceous phase of the grey porphyry					
374.7	380.1	Chlorite - Slightly talcose chlorite schist with blebs and irregular stringers of carbonate. Little pyrite. Looks like agglomerate.					
380.1	393.0	Porphyry - Partially carbonatized, fine grained siliceous, grey porphyry. Numerous white quartz stringers. Little pyrite.					
393.0		END OF HOLE					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 64 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Gwibord Twps.
Location
Latitude
Departure
Bearing South 11°45' West

	Dip
0	46°
200'	40°30'
393'	44°

Total Footage 393'

Elev. Collar 9993.45
Datum September 9, 1946
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
		SUMMARY					
		29.0 - 42.0 -- Basic Syenite					
		42.0 - 61.5 -- Porphyritized Andesite					
		61.5 - 360.1 -- Talc					
		360.1 - 374.7 -- Porphyry					
		374.7 - 380.1 -- Chlorite Schist					
		380.1 - 393.0 -- Porphyry					

Date of Examination

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DIAMOND DRILL RECORD

Hole No. 65 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 4,548.04
Departure E. 13,367.33
Bearing South 9° 5' West

Dip	
0	48°
200'	47° 30'
400'	46°

Total Footage 409.5'

Elev. Collar 9985.32
Datum
Date Started September 9, 1946
Date Completed September 14, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	96.0	Casing					
96.0	99.2	Basic Syenite					
99.2	143.0	Andesite - Medium grained, slightly porphyritized andesite pillow lava(?) Cut by stringers of feldspar porphyry and small dykes of lamprophyre Little pyrite. Lost core 101.0 - 106.0					
143.0	165.0	Andesite - Fine grained, spherulitic andesite, slightly carbonatized and syenitized with short more altered sections. Stringers of feldspar porphyry. Few small quartz stringers. Fair pyrite		5.0	.02		153.0 - 158.0
				5.0	.02		158.0 - 163.0
165.0	212.5	Porphyritized Andesite - Porphyritized, spherulitic andesite with carbonatized and silicified sections. Many stringers of feldspar porphyry mostly at low angles to the core. The coarser grained sections are apparently recrystallized. Few small quartz stringers. Good pyrite, except 193 - 207.5 which has little		5.0	.02		163.0 - 168.0
				4.6	.02		168.0 - 172.6
				5.0	.02		172.6 - 177.6
				4.7	.06		177.6 - 182.3
				5.0	.04		182.3 - 187.3
				5.7	.03		187.3 - 193.0
				5.0	.05		193.0 - 198.0
				4.7	.02		207.8 - 212.5
212.5	222.0	Porphyritized Andesite - Silicified red or dark syenitized spherulitic andesite flow top(?) The red bands are jasperoidal and at a low angle to the core. Considerable brecciation. Fair pyrite.		5.0	.04		212.5 - 217.5
				5.0	.02		217.5 - 222.5
222.0	232.0	Porphyritized Tuff - Dark to reddish syenitized tuff(?) with silicified sections. Few small quartz stringers. Chloritw slips. Little pyrite.		4.8	.04		222.5 - 227.3
				3.1	.06		227.3 - 230.4
				1.8	.02		230.4 - 232.2

Date of Examination

DIAMOND DRILL RECORD

Hole No. 65 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 9°5' West

	Dip
0	48°
200'	47°30'
400'	46°

Total Footage 409.5'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
232.0	247.0	Porphyritized Agglomerate - Syenite agglomerate(?) with short carbonatized and silicified sections. Few small quartz stringers. Chlorite slips. Fair pyrite.		5.0	.05		232.2 - 237.2
				4.3	.17		237.2 - 241.5
				5.0	.07		241.5 - 246.5
247.0	289.0	Carbonate - Grey carbonate brecciate probably agglomerate with small dykes and stringers of brecciated carbonatized feldspar porphyry. Short silicified sections. Few small quartz stringers. Fair pyrite.		5.0	.03		246.5 - 251.5
				4.2	.04		251.5 - 255.7
				4.8	.12		255.7 - 260.5
				4.0	.10		260.5 - 264.5
				1.0	.05		264.5 - 265.5
				4.5	.11		265.5 - 270.0
				5.0	.14		270.0 - 275.0
				4.4	.12		275.0 - 279.4
				5.1	.04		279.4 - 284.5
				5.0	1.04		284.5 - 289.5
289.0	335.5	Carbonate - Grey silicified carbonate brecciate. Might be andesite. Fair pyrite. 325.4 - 327.4 is reddish probably porphyry		5.3	.14		289.5 - 294.8
				5.0	.10		294.8 - 299.8
				5.6	.52		299.8 - 305.4
				4.9	.62		305.4 - 310.3
				4.7	.18		310.3 - 315.0
				4.7	.02		315.0 - 319.7
				5.7	.28		319.7 - 325.4
				2.0	.07		325.4 - 327.4
				2.1	.03		327.4 - 329.5
				4.8	.03		329.5 - 334.3
335.5	336.5	Agglomerate - Schisted brecciated carbonatized agglomerate. Fair pyrite.		5.0	.02		334.3 - 339.3

Date of Examination

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DIAMOND DRILL RECORD

Hole No. 65 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 9°5' West

	Dip
0	48°
200'	47°30'
400'	46°

Total Footage 409.5'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
336.5	338.2	Basic Syenite - Carbonatized basic syenite(?) Little pyrite.					
338.2	341.3	Agglomerate - Same as 335.5 - 336.5		4.5	.02		339.3 - 343.8
341.3	363.0	Carbonate - Greyish to brownish, slightly silicified carbonate breccia. Little pyrite, good pyrite in several short sections.		5.0	.09		343.8 - 348.8
				5.0	.18		348.8 - 353.8
				5.0	.02		353.8 - 358.8
				4.2	.05		358.8 - 363.0
363.0	369.4	Porphyry - Slightly silicified carbonatized feldspar porphyry with inclusions of highly altered andesite (?) Little pyrite					
369.4	371.0	Chlorite - Silicified brecciated, highly sheared andesite(?) with much chlorite and graphite. Looks like a healed fault at 20° to the core.		5.5	.04		369.4 - 374.9
371.0	374.9	Carbonate - Brownish carbonate breccia. Originally spherulitic andesite(?) Fair pyrite.					
374.9	385.1	Porphyry - Red, fine grained, feldspar porphyry. Few calcite stringers.					
385.1	409.5	Talc Schist Lost core: 391.2-394; 395.9-400.5.					
409.5		END OF HOLE					
		SUMMARY					
		96.0 - 165.0 -- Andesite					
		165.0 - 222.0 -- Porph.Andesite					
		222.0 - 232.0 -- Porph. Tuff					
		232.0 - 247.0 -- Porph. Agglomerate					
		247.0 - 363.0 -- Carbonate					
		363.0 - 369.4 -- Porphyry					
		369.4 - 374.9 -- Carbonate					
		374.9 - 385.1 -- Porphyry					
		385.1 - 409.5 -- Talc Schist					

Date of Examination

T.14

DIAMOND DRILL RECORD

Hole No. 66 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 13° West

	Dip
0	47°
150'	44° 00
290'	44° 45'

Total Footage 281'

Elev. Collar 9990.54
Datum
Date Started September 17, 1946
Date Completed September 20, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	42.0	Casing					
42.0	55.3	Andesite - Irregularly syenitized, slightly carbonatized and silicified spherulitic andesite. Few small quartz stringers. Little pyrite.					
55.3	56.5	Lamprophyre					
56.5	137.2	Andesite - Slightly carbonatized and silicified spherulitic andesite. Small dyke of feldspar porphyry at 71'. Few small quartz stringers.					
137.2	176.0	Porphyritized Andesite - Slightly silicified and carbonatized, syenitized andesite(?) Somewhat brecciated in places. Few small quartz stringers Fair pyrite.		5.0	.04		150.1 - 155.1
				4.5	.03		155.1 - 159.6
				4.2	.02		169.3 - 173.5
176.0	186.6	Carbonate - Talcose brecciated carbonatized agglomerate(?) with short syenitized sections.					
186.6	194.5	Lamprophyre - Carbonatized lamprophyre					
194.5	199.5	Carbonate - Same as 176.0 - 186.6					
199.5	281.0	Talc - Highly talcose andesite(?) with short brecciated sections. Many small carbonate stringers. Small lamprophyre dykes at 275 and 278'					
281.0		END OF HOLE					

Summary

42.0 - 137.2 -- Andesite
137.2 - 176.0 -- Porphyritized Andesite
176.0 - 199.5 -- Carbonate
199.5 - 281.0 -- Talc

of Examination

T-74

DIAMOND DRILL RECORD

Hole No. 67 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 4,512.26
Departure E. 13,564.21
Bearing South 10°7' West

	Dip
0	45°
200'	47°30'
390'	42°
540'	45°30'

Total Footage 547'

Elev. Collar 9984.65
Datum
Date Started September 17, 1946
Date Completed September 25, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	79.0	Casing					
79.0	85.1	Andesite - Slightly carbonatized and chloritized, fine grained spherulitic andesite. Few small quartz stringers. Fair pyrite.					
85.1	86.3	Carbonate - Red carbonatized syenitized andesite(?) Few small quartz stringers. Little pyrite.					
86.3	146.9	Carbonate - Silicified, carbonatized, brecciated andesite(?) Few small quartz stringers. Fair pyrite. There is considerable specularite on slips and in small blebs which probably represent amygdules. Lost core 128.5 - 130.0		3.2	.02		130.0 - 133.2
146.9	152.6	Basic Syenite - Fine grained, slightly carbonatized basic syenite					
152.6	171.3	Porphyritized Andesite - Silicified, slightly carbonatized, syenitized andesite(?) cut by stringers of feldspar porphyry and basic syenite. Few small quartz stringers. Little pyrite.		4.9	.04		162.4 - 167.3
171.3	182.3	Diorite - Slightly carbonatized, fine grained diorite. Few small calcite and quartz stringers. Little pyrite.					
182.3	209.0	Diorite - Medium grained diorite with short carbonatized and syenitized sections. Few small calcite and quartz stringers.					
209.0	222.4	Diorite - Fine grained, slightly carbonatized and syenitized diorite, probably contains some inclusions of andesite. Few small quartz stringers. Little pyrite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 67 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10°07' West

	Dip
0	45°
200'	47°30'
390'	42°
540'	45°30'

Total Footage 547'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
222.4	223.7	Porphyry - Slicified feldspar porphyry					
223.7	224.7	Lamprophyre					
224.7	229.0	Andesite - Slightly silicified and syenitized andesite(?) cut by a small dyke and stringers of feldspar porphyry. Few small quartz stringers Little pyrite.					
229.0	239.6	Porphyritized Andesite - Silicified, carbonatized, syenitized andesite(?) cut by small dykes and stringers of silicified, carbonatized feldspar porphyry. Few small quartz stringers. Fair pyrite. Lost core 231.0 - 231.5					
239.6	274.0	Diorite - Fine grained, slightly syenitized diorite(?) cut by stringers of feldspar porphyry. Few small quartz stringers. Little pyrite.					
274.0	288.5	Porphyritized Diorite - Fine grained slightly silicified, carbonatized and syenitized diorite(?) Cut by stringers of feldspar porphyry and small dykes of lamprophyre. Few small quartz stringers Little pyrite. Lost core: 280-281.3: 286 - 288.5		4.7	.02		281.3 - 286.0
288.5	310.7	Porphyry - Silicified and carbonatized, medium grained feldspar porphyry. Lost core 313.3-315.0					
310.7	339.5	Carbonate - Silicified, brecciated carbonate probably originally andesite cut by dykes of feldspar porphyry. Short syenitized sections. Fair pyrite		5.0	.03		315.0 - 320.0
				5.1	.02		320.0 - 325.1
				5.1	.04		325.1 - 330.2
				5.0	.02		330.2 - 335.2
339.5	379.6	Carbonate - Silicified, brecciated carbonate originally agglomerate(?) cut by dykes of feldspar porphyry. Little pyrite.		3.0	.02		340.0 - 343.0
				4.8	.02		350.0 - 354.8

Date of Examination

DIAMOND DRILL RECORD

Hole No. 67 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10°07' West

	Dip
0	45°
200'	47°30'
390'	42°
540'	45°30'

Total Footage 547'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
379.6	388.5	Agglomerate - Talcose carbonatized agglomerate with schisted sections. Little pyrite.					
388.5	413.4	Porphyry - Silicified, brecciated, carbonatized feldspar porphyry. Little pyrite.					
413.4	418.0	Agglomerate - Talcose, brecciated agglomerate. Lost core: 415.1 - 416.0: 417.5 - 418.0					
418.0	429.0	Porphyry - Fine grained, slightly silicified and carbonatized feldspar porphyry. Little pyrite.		3.4	.02		418.0 - 421.4
				4.2	.06		421.4 - 425.6
				3.2	.04		425.6 - 428.8
429.0	440.2	Talc - Talc-chlorite with short carbonatized, syenitized sections.					
440.2	452.0	Lamprophyre - Carbonatized, syenitized lamprophyre with short silicified sections. Fair pyrite.		3.2	.02		442.3 - 445.5
		Lost core: 441.3 - 442.3: 445.5 - 451.2					
452.0	479.0	Talc - Talc schist.					
		Lost core: 452.5-454.0: 454.5-464.0: 465.8-468.3; 468.8-4710: 473.0-475.0: 477.0-478.9					
479.0	488.2	Talc - Highly talcose, basic syenite with some less talcose silicified sections. Few quartz stringers. Fair pyrite.					
		Lost core: 481.0-482.0: 482.7-485.0: 486.5 to 487.0: 487.6 - 488.0					
488.2	4916	Porphyry - Silicified, carbonatized feldspar porphyry. Quartz-carbonate stringers. Fair pyrite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 67 Sheet No. 4

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10°07' West

	Dip
0	45°
200'	47°30'
390'	42°
540'	45°30'

Total Footage 547'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
491.6	516.0	Basic Syenite - Talcose carbonatized basic syenite cut by dykes of silicified carbonatized feldspar porphyry. Quartz-carbonate stringers. Fair pyrite Lost core: 503.5 - 504.5: 510.5 - 512.5		1.0	.02		509.5 - 510.5
516.0	547.0	Talc - Talc Schist Lost core: 514.5-516.0: 517.8-520.0:525.5-526.5: 527.0-528.5: 533.0-534.0:535.8-536.8: 541.7-543.0					
547.0		END OF HOLE					

SUMMARY

79.0 - 85.1 -- Andesite
85.1 - 152.6 -- Carbonate
152.6 - 171.3 -- Porphyritized Andesite
171.3 - 222.4 -- Diorite
222.4 - 229.0 -- Andesite.
229.0 - 239.6 -- Porphyritized Andesite
239.6 - 274.0 -- Diorite
274.0 - 288.5 -- Porphyritized Diorite
288.5 - 310.7 -- P orphyry
310.7 - 379.6 -- Carbonate
379.6 - 388.5 -- Agglomerate
388.5 - 413.4 -- Porphyry
413.4 - 418.0 -- Agglomerate
418.0 - 429.0 -- Porphyry
429.0 - 491.6 -- Talc
491.6 - 516.0 -- Basic Syenite
516.0 - 547.0 -- Talc

Date of Examination

DIAMOND DRILL RECORD

Hole No. 68 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 4,865.62
Departure E. 11,945.38
Bearing South 11° West

	Dip
0	45°
200'	41°
400'	40°
600'	35°30'
900'	31°

Total Footage 911'

Elev. Collar 9994.16
Datum
Date Started September 21, 1946
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	35.0	Casing					
35.0	62.0	Carbonate - Carbonate breccia with a little irregular silicification. Little pyrite. Probably chiefly feldspar porphyry or syenite originally					
62.0	74.0	Carbonate - Brecciated carbonatized agglomerate. Little pyrite. Lost core 63.2 - 64.0					
74.0	78.0	Lamprophyre - Brecciated, carbonatized lamprophyre. Little pyrite.					
78.0	94.9	Carbonate - Brecciated, carbonatized agglomerate cut by dykes of feldspar porphyry.					
94.9	265.0	Carbonate - Carbonate breccia with silicified sections. Very little pyrite. Originally grey feldspar porphyry. Lost core 112.9 - 114.9					
265.0	271.1	Basic Syenite - Slightly carbonatized basic syenite. Lost core 265.5 - 267.7					
271.1	324.5	Carbonate - Same as 94.9 - 265.0. Lost core 298.4 - 299.0: 322.5 - 323.5					
324.5	360.2	Carbonate - Sheared carbonate breccia. originally spherulitic andesite. Lost core: 328.8 - 329.3: 336.8-339.3: 343.0 to 345.5: 349.2 - 359.5					
360.2	377.0	Carbonate - Carbonate breccia, white quartz stringers running with the core. Very broken rusty core for first ten feet. Little pyrite. Originally grey feldspar porphyry. Lost core 363.5 - 367.2					
377.0	422.5	Carbonate Breccia					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 68 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 11° West

	Dip
0	45°
200'	41°
400'	40°
600'	35°30'
900'	31°

Total Footage 911'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
422.5	432.0	Carbonate - Brown carbonate, looks like basic syenite					
432.0	533.0	Carbonate - Carbonate breccia, all bleached and kaolinized. Lost core: 526.4 - 531.9					
533.0	540.0	Carbonate - Grey-brown carbonate, badly bleached Lost core: 535.5 - 536.5					
540.0	559.0	Carbonate - Carbonate breccia, bleached and earthy. Lost core: 543.0-546: 551-553: 555.5-559.					
559.0	568.3	Carbonate - Carbonate-sericite schist					
568.3	581.5	Carbonate - Reddish carbonate breccia, looks like original porphyry					
581.5	676.0	Carbonate - Carbonate breccia, originally spherulitic andesite in part. Bleached to 600 feet. Probably porphyry from 650' on. Few small quartz stringers. Lost core 634.5 - 635.5					
676.0	691.5	Carbonate - Carbonatized pink feldspar porphyry					SUMMARY
691.5	707.5	Carbonate - Probably mainly feldspar porphyry.					
707.5	790.1	Carbonate - With brecciated sections, originally spherulitic andesite.					35.0 - 265.0 -- Carbonate
790.1	808.7	Carbonate - Originally an intrusive, probably diorite.					265.0 - 271.1 -- Basic Syenite
808.7	855.2	Carbonate - Originally spherulitic andesite. Considerable brecciation.					271.1 - 911.0 -- Carbonate
855.2	866.5	Carbonate - Reddish carbonate breccia. Originally feldspar porphyry in part.					
866.5	911.0	Carbonate - Brown to yellowish carbonate, schisted sections. Possibly originally diorite. Few white quartz stringers. Little pyrite.					
911.0		END OF HOLE					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 69 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 4,557.56
Departure E. 13,318.45
Bearing South 11°45' West

	Dip
0	47°
200'	46°
400'	50°

Total Footage 426'

Elev. Collar 9985.19
Datum
Date Started September 27, 1946
Date Completed October 8, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	94.0	Casing					
94.0	122.0	Andesite - Slightly syenitized, fine grained andesite(?) with short silicified sections. Few small dykes and stringers of feldspar porphyry. Few small quartz stringers. Little pyrite.					
122.0	127.8	Porphyry - Fine grained feldspar porphyry. Few small quartz stringers. Fair pyrite.					
127.8	163.4	Porphyritized Andesite - Porphyritized, spherulitic andesite with small dykes and stringers of feldspar porphyry. Small quartz and white carbonate stringers. Little pyrite.		3.5	.56		158.5 - 162.0
163.4	177.5	Porphyry - Silicified, slightly carbonatized, fine grained feldspar porphyry with inclusions of porphyritized andesite(?) and a small dyke of syenitized lamprophyre. Good pyrite mineralization with short sections heavily mineralized. Fair chalcopyrite. Few quartz stringers.		3.0	.38		162.0 - 165.0
				5.0	.10		165.0 - 170.0
				4.5	.04		170.0 - 174.5
				2.7	.03		174.5 - 177.2
177.5	186.0	Porphyritized Tuff - Slightly silicified, syenitized tuff(?) Few stringers of feldspar porphyry. Little pyrite. Lost core: 183.5 - 185.0		3.0	.02		177.2 - 180.2
186.0	221.0	Syenite - Somewhat brecciated and carbonatized, coarse grained syenite. Few small quartz and carbonate stringers. Little pyrite and chalcopyrite. Lost core: 190.3 - 191.3					
221.0	224.5	Carbonate - Silicified carbonate breccia. Probably originally feldspar porphyry. Few small quartz stringers. Little pyrite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 69 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 11°45' West

	Dip
0	47°
200'	46°
400'	50°

Total Footage 426'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
224.5	230.5	Basic Syenite - Grey, silicified, brecciated, carbonatized, fine grained basic syenite. Fair pyrite.					
				5.0	.06		224.0 - 229.0
230.5	243.0	Carbonate - Carbonate breccia with silicified sections. Looks like agglomerate cut by feldspar porphyry dykes. Fair pyrite.		5.2	.04		229.0 - 234.2
				4.7	.06		234.2 - 238.9
				4.5	.42		238.9 - 243.4
243.0	373.0	Carbonate - Silicified carbonate breccia with highly silicified sections to 320 originally agglomerate cut by feldspar porphyry dykes. Few small quartz stringers. Fair pyrite. Lost core: 268-271: 363.7-364.5		4.6	.06		243.4 - 248.0
				5.0	.12		248.0 - 253.0
				5.0	.04		253.0 - 258.0
				4.8	.02		258.0 - 262.8
				0.8	.04		267.5 - 268.3
				2.0	.06		271.0 - 273.0
				5.0	.03		273.0 - 278.0
				5.0	.06		278.0 - 283.0
				4.8	.12		283.0 - 287.8
				5.2	.20		287.8 - 293.0
				4.7	.10		293.0 - 297.7
				4.8	.06		297.7 - 302.5
				4.8	.02		302.5 - 307.3
				3.1	.94		307.3 - 310.4
				3.2	.18		310.8 - 314.0
				3.0	.14		314.0 - 317.0
				4.7	.03		317.0 - 321.7
				5.0	.02		321.7 - 326.7
				5.0	.10		331.2 - 336.2
				4.8	.04		336.2 - 341.0
				5.3	.02		341.0 - 346.3
				4.9	.04		351.1 - 356.0

Date of Examination

DIAMOND DRILL RECORD

Hole No. 69 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 11°45' West

	Dip
0	47°
200'	46°
400'	50°

Total Footage 426'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
373.0	376.0	Carbonate - Talcose, carbonatized, silicified, spherulitic andesite. Lost core: 374.0 - 374.7					
376.0	409.0	Talc - Talc schist and breccia. Lost core: 383-383.5: 386.6 - 387.3: 390.6-392.5: 399.5-401.5: 402.5-403.0: 405.0-407.0					
409.0	420.5	Lamprophyre - Talcose lamprophyre					
420.5	426.0	Talc / Talc breccia					
42610		END OF HOLE					

SUMMARY

94.0 - 122.0 -- Andesite
122.0 - 163.4 -- Porphyritized Andesite.
163.4 - 177.5 -- Porphyry
177.5 - 186.0 -- Porphyritized Tuff
186.0 - 221.0 -- Syenite
221.0 - 376.0 -- Carbonate
376.0 - 409.0 -- Talc
409.0 - 420.5 -- Lamprophyre
420.5 - 426.0 -- Talc

Date of Examination

DIAMOND DRILL RECORD

Hole No. 71 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 5,651.71
Departure E. 11,259.03
Bearing South 45°46' West

	Dip
0	46°
200'	48°30'
400'	44°45'
478'	44°

Total Footage 478'

Elev. Collar 9997.68
Datum
Date Started October 11, 1946
Date Completed October 17, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	8.0	Casing					
8.0	51.0	Diorite - Fine grained, diorite cut by small dykes and stringers of feldspar porphyry. Short carbonatized sections with good pyrite. Few small quartz stringers. Little pyrite throughout					
51.0	68.5	Andesite - Fine grained, spherulitic andesite. Few small dykes and stringers of feldspar porphyry Lost core 63.5 - 66.0					
68.5	98.1	Diorite - Green, fine grained diorite with irregular silicification. Small dykes and stringers of feldspar porphyry.					
98.1	102.9	Porphyry - Carbonatized silicified feldspar porphyry.					
102.9	105.0	Diorite - Same as 68.5 - 98.1					
105.0	110.9	Basic Syenite					
110.9	115.9	Porphyry - Carbonatized feldspar porphyry.					
115.9	147.0	Basic Syenite - Carbonatized, syenitized basic syenite cut by dykes and stringers of feldspar porphyry					
147.0	167.3	Porphyritized Tuff (?) and basic syenite cut by dykes of feldspar porphyry Carbonatized sections. Little pyrite to 155'. Fair pyrite from 155' on		4.6	.13		154.5 - 159.1
				4.9	.26		159.1 - 164.0
				3.3	.08		164.0 - 167.3
167.3	196.0	Syenite - Coarse grained, carbonatized syenite with silicified sections. Inclusion of porphyritized basic syenite 171.3 - 172.7. Little pyrite.		1.7	.10		167.3 - 169.0
				4.6	.02		169.0 - 173.6
				5.0	.02		183.3 - 188.3
196.0	199.5	Carbonate breccia. Little pyrite		3.5	.05		196.0 - 199.5
199.5	201.0	Lost core					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 71 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 45°46' West

	Dip
0	46°
200'	48°30'
400'	44°45'
478'	44°

Total Footage 478'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
201.0	225.0	Talc - Talc-chlorite schist (agglomerate) Lost core 220.4 - 224.3					
225.0	235.8	Carbonate - Talcose chlorite carbonate schist cut by small dykes of basic syenite. Considerable irregular pink calcite. Fair pyrite		4.5	.04		231.3 - 235.8
235.8	238.0	Lamprophyre					
238.0	316.6	Talc - Talc schist and breccia (agglomerate. Lost core: 238.8 - 239.5; 265.6 - 267.0; 268.0 to 269.0; 285.4 - 287.0; 295.0 - 302.0					
316.6	326.6	Carbonate - Talcose carbonate. Originally diorite(?)		5.0	.06		316.6 - 321.6
		Few quartz stringers. Fair pyrite.		5.0	.04		321.6 - 326.6
326.6	365.5	Talc - Talcose agglomerate. May be andesite from 352'. Lost core: 326.6-327.5; 355.4-358.3; 360.3 - 364.0					
365.5	366.1	Carbonate - Carbonatized and silicified fine grained basic syenite					
366.1	413.5	Talc - Talcose diorite with some agglomerate. Lost core: 387.0-390.0; 401.0-403.0					
413.5	448.0	Talc - Talcose agglomerate several small dykes of basic syenite.					
448.0	449.6	Basic Syenite - Schisted basic syenite, stringers of feldspar porphyry. Few quartz stringers. Fair pyrite. Little visible gold		1.6	.64		448.0 - 449.6
449.6	473.2	Talc - Talcose agglomerate with irregular white carbonate. Lost core 454.0 - 456.5					
473.2	475.9	Talc - Slightly carbonatized talcose agglomerate and andesite with stringers of white quartz and carbonate.					

Date of Examination

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DIAMOND DRILL RECORD

Hole No. 71 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 45°46' West

	Dip
0	46°
200'	48°30'
400'	44°45'
478'	44°
Total Footage 478'	478'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
475.9	478.0	Andesite (?) Few small stringers of quartz and carbonate.					
478		END OF HOLE					
		SUMMARY					
		8.0 - 51.0 -- Diorite					
		51.0 - 68.5 -- Andesite					
		68.5 - 105.0 -- Diorite					
		105.0 - 147.0 -- Basic Syenite					
		147.0 - 167.3 -- Porphyritized Tuff and Basic Syenite					
		167.3 - 196.0 -- Syentie					
		196.0 - 199.5 -- Carbonate					
		199.5 - 225.0 -- Talc					
		225.0 - 235.8 -- Carbonate					
		235.0 - 316.6 -- Talc					
		316.6 - 326.6 -- Carbonate					
		326.6 - 448.0 -- Talc					
		448.0 - 449.6 -- Basic Syenite					
		449.6 - 475.9 -- Talc					
		475.9 - 478.0 -- Andesite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 72 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 4,543.71
Departure E. 13,392.20
Bearing South 10°30' West

	Dip
0	61°30'
200'	59°
400'	60°

Total Footage 579.0'

Elev. Collar 9984.98
Datum
Date Started October 19, 1946
Date Completed November 1, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	76.0	Casing					
76.0	97.0	Andesite - Slightly carbonatized and silicified andesite(?) Few stringers of feldspar porphyry					
		Lost core 79.8 - 81.0		4.0	.08		96.0 - 100.0
97.0	98.5	Andesite - Carbonatized andesite. Good fine pyrite					
98.5	116.0	Andesite - Slightly carbonatized and silicified andesite or diorite. Two small dykes of feldspar porphyry. Lost core: 100.8 - 101.3					
116.0	144.3	Diorite - Slightly carbonatized, medium grained diorite with a short well mineralized, highly carbonatized section at 120'. Dykes of feldspar porphyry.					
144.3	154.2	Basic Syenite					
154.2	157.0	Diorite					
157.0	171.0	Andesite - Cut by dykes and stringers of feldspar porphyry. Little pyrite		1.9	.02		163.6 - 165.5
171.0	173.0	Lamprophyre					
173.0	208.0	Diorite - Fine grained diorite with a few short sections of andesite cut by dykes of feldspar porphyry. Lost core 176.3 - 177.0					
208.0	259.5	Andesite - Slightly syenitized, spherulitic andesite, short carbonatized and silicified sections, with fair pyrite. Dykes and stringers of feldspar porphyry. Lost core 209.0 - 209.8		3.9	.02		209.8 - 213.7
				4.1	.04		218.0 - 222.1
				5.0	.02		226.8 - 231.8
				4.9	.02		231.8 - 236.7
				4.7	.02		246.1 - 250.8
				5.0	.03		250.8 - 255.8
				5.3	.02		255.8 - 261.1

Date of Examination

DIAMOND DRILL RECORD

Hole No. 72 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10°30' West

	Dip
0	61°30'
200'	59°
400'	60°

Total Footage 579'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
259.5	268.3	Diorite - Fine grained slightly syenitize diorite					
268.3	284.5	Andesite - Slightly syenitized spherulitic andesite, short syenitized sections. One small dyke of feldspar porphyry. Little pyrite. Last two feet fair pyrite.		3.1	.02		280.6 - 283.7
284.5	286.7	Porphyry - Medium grained feldspar porphyry		2.8	.02		283.7 - 286.5
286.7	290.0	Andesite - Slightly syenitized, fine grained andesite or diorite. Stringers of feldspar porphyry Few small quartz stringers. Little pyrite		3.5	.02		286.5 - 290.0
290.0	318.5	Porphyritized Andesite - Syenitized andesite. Small dykes and stringers of feldspar porphyry. Silicified sections. Fair to good pyrite except first 3 feet and last 5 feet.		5.0	.03		290.0 - 295.0
				4.4	.11		295.0 - 299.4
				4.8	.02		299.4 - 304.2
				5.0	.05		304.2 - 309.2
				5.0	.03		309.2 - 314.2
318.5	324.0	Porphyritized Tuff - Syenitized, carbonatized tuff(?) Little pyrite.		5.2	.08		318.9 - 324.1
324.0	335.0	Carbonate - Silicified carbonate cut by stringers of feldspar porphyry. Probably originally diorite. Fair pyrite.		5.2	.05		324.1 - 329.3
				5.7	.08		329.3 - 335.0
335.0	353.0	Syenite - Coarse grained, somewhat carbonatized and silicified syenite. Short brecciated sections. Little pyrite. Lost core: 342.8 - 343.5					
353.0	361.9	Carbonate - Silicified carbonate breccia probably chiefly syenite with a dyke or inclusion. Little pyrite.					
361.9	458.4	Syenite - Coarse grained, slightly carbonatized syenite with short brecciated, carbonatized and silicified sections. Little pyrite. Lost core: 424.7 - 430.0					

Date of Examination

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DIAMOND DRILL RECORD

Hole No. 72 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 10°30' West

	Dip
0	61°30'
200'	59°
400'	60°

Total Footage 579'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
458.4	464.4	Carbonate - Silicified carbonate. Looks like original diorite. Good fine pyrite.		3.6	.06		459.4 - 463.0
				1.4	.07		463.0 - 464.4
464.4	523.0	Carbonate - Somewhat silicified carbonate. Looks like agglomerate and diorite dykes. Fair pyrite		3.6	.04		464.4 - 468.0
				4.4	.05		468.0 - 472.4
				4.9	.02		472.4 - 477.3
				4.8	.03		482.2 - 487.0
				4.7	.02		492.0 - 496.7
				5.0	.04		501.0 - 506.0
				5.0	.06		506.0 - 511.0
				3.8	.04		511.0 - 514.8
523.0	524.0	Lost core					
524.0	527.0	Talc - Talc-chlorite schist(agglomerate)					
527.0	561.0	Talc - (andesite or diorite) Lost core 560-561					
561.0	579.0	Talc (agglomerate with diorite dykes) Lost core 564.8 - 566.5					
579.0		END OF HOLE					

SUMMARY

76.0 - 116.0	Andesite	268.3 - 290.0	Andesite
116.0 - 144.3	Diorite	290.0 - 318.5	Porphyritized Andesite
144.3 - 154.2	Basic Syenite	318.5 - 324.0	Porphyritized Tuff
154.2 - 157.0	Diorite	324.0 - 335.0	Carbonate
157.0 - 173.0	Andesite	335.0 - 458.4	Syenite
173.0 - 208.0	Diorite	458.4 - 524.0	Carbonate
208.0 - 259.5	Andesite	524.0 - 579.0	Talc
259.5 - 268.3	Diorite		

Date of Examination

DIAMOND DRILL RECORD

Hole No. 73 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 5,828.00
Departure E. 11,014.14
Bearing South 49° West

	Dip
0	46°
200'	41°30'

Total Footage 598'

Elev. Collar 9999.75
Datum
Date Started October 19, 1946
Date Completed November 6, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	69.0	Casing					
69.0	80.8	Carbonate - Carbonate breccia with considerable chlorite and little talc. Probably agglomerate Fair pyrite. Lost core: 78.5 - 79.3				.005	70 - 80
80.8	90.1	Talc-Chlorite - Talcose chlorite-carbonate schist (agglomerate) Little pyrite. Lost core 87.3-89				.05	80 - 90
90.1	91.6	Chlorite - Chlorite schist with little carbonate. Good fine pyrite.		1.5	.14		90.1 - 91.6
91.6	97.7	Carbonate - Slightly silicified, grey brown carbonate. Few small quartz stringers. Fair pyrite.		1.4	.58		91.6 - 93.0
				4.7	.30		93.0 - 97.7
97.7	100.3	Carbonate - Chloritic carbonate breccia. Few small quartz stringers. Fair pyrite. Lost core 98-99				.06	90 - 100
100.3	104.5	Chlorite - Talcose chlorite - carbonate schist. Fair pyrite.		5.5	.18		99.0 - 104.5
104.5	131.5	Talc-Chlorite - Talc-chlorite schist with considerable irregular white carbonate. Lost core: 105.0-106.0: 114.0-116.0: 124.2-127.0)					
131.5	161.6	Lamprophyre - Coarse grained lamprophyre. (fine grained at start) Gabbro type with little biotite. Lost core: 131.8 - 134.5					
161.6	177.0	Talc - (Diorite?)					
177.0	244.1	Talc - Talc schist with a little carbonate (agglomerate). Lost core 173.5-175: 238.5-243.0					
244.1	250.6	Lamprophyre					
250.6	251.4	Talc					
251.4	253.2	Lamprophyre					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 73 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 49° West

	Dip
0	46°
200'	41°30'

Total Footage 598'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
253.2	284.5	Talc - (mainly agglomerate) Several small lampro-phyre dykes. Lost core 259.0 - 261.0					
284.5	297.2	Lamprophyre - Medium grained. Lost core 278.8-281.8					
297.2	301.4	Porphyry - Slightly carbonatized feldspar porphyry Few small quartz stringers. Little pyrite.		4.2	.09		297.2 - 301.4
301.4	305.8	Lamprophyre					
305.8	319.0	Talc (agglomerate) Lost core: 314.8-316: 318-319					
319.0	326.0	Talc Talcose Diorite(?). Lost core: 320.0 - 321.0: 323.4 - 326.0					
326.0	336.0	Diorite - Fine grained diorite with schisted chloritic sections. Small quartz and carbonate stringers. Little pyrite.					
336.0	424.1	Talc (Agglomerate) Lost core: 341.5-345.3: 373.6-376.0: 379.0-380.0: 382.4-386.0					
424.1	426.5	Lamprophyre					
426.5	436.0	Talc - (agglomerate) Stringers of lamprophyre run-ning with the core. Lost core 428.1 - 429.0					
436.0	439.1	Basic Syenite - Slightly carbonatized basic syenite. Little pyrite.					
439.1	462.4	Talc - (agglomerate?) Lost core 450.4 - 453.0					
462.4	467.1	Basic Syenite - Fair pyrite					
467.1	535.0	Talc - Talcose agglomerate. Lost core - 491.4 to 493.0; 498.7 - 500.4; 520.1 - 523.0; 525.4 to 528.0; 530.5 - 533.0					
535.0	541.3	Carbonate - Reddish fine grained carbonatized syenitized tuff(?). lost core 535.6 - 538.0					
541.3	551.6	Carbonate - Chlorite-carbonate schist. Little pyrite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 73 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 49° West

Dip
0 46°
200' 41°30'

Total Footage 598'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
551.6	571.5	Carbonate - Schisted carbonate breccia, in part syenitized. Appears to have been partly feldspar porphyry.					
571.5	598.0	Carbonate - Carbonate with a little yellowish sericite.					
598.0		END OF HOLE					
		SUMMARY					
		69.0 - 80.8 -- Carbonate					
		80.8 - 91.6 -- Talc-Chlorite					
		91.6 - 100.3 -- Carbonate					
		100.3 - 131.5 -- Talc-Chlorite					
		131.5 - 161.6 -- Lamprophyre					
		161.6 - 326.0 -- Talc					
		326.0 - 336.0 -- Diorite					
		336.0 - 535.0 -- Talc					
		535.0 - 598.0 -- Carbonate					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 74 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 4,716.85
Departure E. 13,270.52
Bearing South 44°55' West

	Dip
0	47°30'
200'	46°30'
400'	40°30'

Total Footage 479.5'

Elev. Collar 9984. 37
Datum
Date Started November 11, 1946
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	86.0	Casing					
86.0	99.8	Diorite - Partially syenitized diorite. Few small dykes of feldspar porphyry					
99.8	103.9	Porphyry - Feldspar porphyry					
103.9	105.6	Diorite - Fine grained diorite or andesite.					
105.6	109.8	Basic Syenite					
109.8	197.6	Diorite - Medium grained diorite. Lost core - 110.8 - 113.0: 187.2 - 188.0					
197.6	213.0	Diorite - Fine grained diorite or andesite.					
213.0	218.0	Porphyritized Andesite - Syenitized andesite(?) cut by dykes and stringers of feldspar porphyry					
218.0	253.7	Porphyry - Fine to medium to fine grained feldspar porphyry. Little pyrite.					
253.7	258.8	Porphyritized Andesite - Brecciated chloritized porphyritized andesite. Fair pyrite.		3.0	.08		253.7 - 256.7
258.8	270.2	Porphyry - Brecciated, medium grained feldspar porphyry with a small inclusion of porphyritized andesite. Silicified sections. Fair pyrite. Lost core: 266.3 - 267.0					
270.2	273.2	Porphyritized Andesite - Dark, highly silicified syenitized andesite or tuff.					
273.2	306.5	Syenite - Coarse grained syenite, some carbonatization and silicification. Little pyrite.					
306.5	328.0	Carbonate - Silicified carbonate, some sections originally medium grained feldspar porphyry or syenite. Fair pyrite.		1.8	.03		320.4 - 322.2
				2.8	.03		322.2 - 325.0
				4.8	.06		325.0 - 329.0
328.0	332.5	Agglomerate - Carbonatized chloritic agglomerate Little pyrite. Lost core 331.3 - 332.5		4.2	.05		329.8 - 334.0

Date of Examination

DIAMOND DRILL RECORD

Hole No. 74 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 44°55' West

	Dip
0	47°30'
200'	46°30'
400'	40°30'

Total Footage 479.5'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
332.5	352.6	Carbonate - Same as 306.5 - 328.0		5.0	.02		334.0 - 339.0
352.6	-362.2	Agglomerate - Carbonatized chloritic agglomerate					
		Fair pyrite.					
362.2	376.7	Porphyry - Fine grained, red feldspar porphyry.					
		Few small quartz stringers. Little pyrite.					
376.7	380.8	Agglomerate - Carbonatized chloritic agglomerate.					
		Fair pyrite.		4.1	.02		376.7 - 380.8
380.8	413.7	Porphyry - Fine grained, red feldspar porphyry					
		with several short inclusions of agglomerate.					
		Little pyrite. Lost core - 385.0 - 385.6					
413.7	415.4	Agglomerate - Chloritic agglomerate. Little pyrite					
415.4	422.5	Porphyry - Same as 380.8 - 413.7					
422.5	432.0	Talc - Talcose agglomerate					
432.0	465.0	Talc - Talcose diorite, few stringers. of white					
		carbonate.					
465.0	479.5	Talc Schist (agglomerate)					
479.5		END OF HOLE					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 74 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 44°55' West

	Dip
0	47°30'
200'	46°30'
400'	40°30'

Total Footage 479.5'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
		SUMMARY					
		86.0 - 213.0 -- Diorite					
		213.0 - 218.0 -- Porphyritized Andesite.					
		218.0 - 253.7 -- Porphyry					
		253.7 - 258.8 -- Porphyritized Andesite.					
		258.8 - 270.2 -- Porphyry					
		270.2 - 273.2 -- Porphyritized Andesite					
		273.2 - 306.5 -- Syenite					
		306.5 - 352.6 -- Carbonate					
		352.6 - 362.2 -- Agglomerate					
		362.2 - 376.7 -- Porphyry					
		376.7 -- 380.8 -- Agglomerate					
		380.8 - 413.7 -- Porphyry					
		413.7 - 415.4 -- Agglomerate					
		415.4 - 422.5 -- Porphyry					
		422.5 - 432.0 -- Talc (Agglomerate)					
		432.0 - 465.0 -- Talc (Diorite)					
		465.0 - 479.5 -- Talc (Agglomerate)					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 75 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 6,002.64
Departure E. 11,188.02
Bearing South 43°30' West

Dip	
0	44°
200'	40°
400'	43°

Total Footage 451'

Elev. Collar 9995.28
Datum
Date Started November 7, 1946
Date Completed November 13, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	15.0	Casing					
15.0	39.0	Andesite - Partially syenitized spherulitic andesite with stringers of feldspar porphyry Some brecciation. Few small stringers of quartz and carbonate					
39.0	49.0	Basic Syenite - Grey basic syenite with small feldspar phenocrysts. Lost core - 39.2 - 41.0					
49.0	60.0	Porphyritized Andesite - Syenitized spherulitic andesite with stringers of feldspar porphyry. Few small quartz stringers. Little pyrite. Brecciated sections.		5.0	.02		56.5 - 61.5
60.0	62.0	Carbonate - Slightly silicified carbonate breccia. Fair pyrite.					
62.0	128.7	Porphyritized Andesite - Carbonatized, syenitized spherulitic andesite, some brecciation. Stringers of feldspar porphyry. Irregular quartz and carbonate stringers. Little pyrite. Lost core - 83.8 - 85.0; 105.8 - 107.0		4.2	.02		61.5 - 65.7
				3.7	.02		80.0 - 83.7
128.7	152.0	Basic Syenite - Slightly syenitized basic syenite cut by many small dykes and stringers of feldspar porphyry. Short sections show coarse mica. Little pyrite.					
152.0	225.0	Basic Syenite - Medium grained, slightly syenitized basic syenite. This rock looks like a rather acid gabbro or diabase, it is almost certainly Algoman age. Dykes and stringers of feldspar porphyry					

Date of Examination

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DIAMOND DRILL RECORD

Hole No. 75 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 43°30' West

	Dip
0	44°
200'	40°
400'	43°

Total Footage 451'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
225.0	244.0	Basic Syenite - Syenitized basic syenite. Carbonatized sections. Few small quartz stringers. Little pyrite. Lost core 233.8 - 235.0					
244.0	267.1	Basic Syenite - Medium grained, hornblende syenite Irregular quartz and carbonate stringers.					
267.1	271.1	Basic Syenite - Syenitized basic syenite. Little pyrite.					
271.1	294.0	Syenite - Coarse grained syenite. First foot highly carbonatized. Brecciated, chloritized and carbonatized sections. Few small quartz stringers. Little pyrite					
294.0	346.5	Syenite - Silicified, brecciated carbonatized syenite. Few quartz stringers. Little pyrite.		5.0	.02		341.0 - 346.0
346.5	348.0	Carbonate - Brecciated silicified carbonate (agglomerate). Good pyrite.		0.8	.02		346.0 - 346.8
				1.2	.04		346.8 - 348.0
348.0	351.0	Lost core					
351.0	359.0	Carbonate - Slightly silicified, brown carbonate breccia (Diorite) Quartz and carbonate stringers. Fair pyrite.		5.5	.04		350.0 - 355.5
				3.5	.04		355.5 - 359.0
359.0	362.0	Agglomerate - Schisted chloritic slightly carbonatized agglomerate. Fair pyrite.		4.3	.02		359.0 - 363.3
362.0	389.2	Agglomerate - Talcose agglomerate with irregular carbonate. Little pyrite. 368 - 369 - Feldspar porphyry					
389.2	399.2	Diorite - Slightly talcose diorite, short carbonatized and silicified sections with fair pyrite		3.8	.02		388.7 - 392.5
				3.0	.06		392.5 - 395.5
				3.7	.04		395.5 - 399.2

Date of Examination

DIAMOND DRILL RECORD

Hole No. 75 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 43°30' West

	Dip
0	44°
200'	40°
400'	43°

Total Footage 451'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
399.2	451.0	Talc - (agglomerate cut by narrow diorite and lamprophyre dykes).					
		Lost core: 419.0 - 420.0: 427.0-428.0: 450-451					
451.0		END OF HOLE					
		SUMMARY					
		15.0 - 39.0 -- Andesite					
		39.0 - 49.0 -- Basic Syenite					
		49.0 - 128.7 -- Porphyritized Andesite					
		128.7 - 271.1 -- Basic Syenite					
		271.1 - 346.5 -- Syenite					
		346.5 - 359.0 -- Carbonate					
		359.0 - 389.2 -- Agglomerate					
		389.2 - 399.2 -- Diorite					
		399.2 - 451.0 -- Talc					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 76 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location Surface

Latitude N. 6,135.90
Departure E. 11,000.72
Bearing South 59°56' West

	Dip
0	47°30'
200'	46°15'
400'	45°
530'	43°

Total Footage 600'

Elev. Collar 9998.28
Datum
Date Started November 14, 1946
Date Completed November 26, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	7.0	Casing					
7.0	12.0	Porphyritized Andesite - Syenitized andesite.					
12.0	64.0	Basic Syenite - Lost core - 61.0 - 62.0					
64.0	111.0	Basic Syenite - Hornblende syenite, last two feet carbonatized. Lost core 86.6 - 88.8					
111.0	115.4	Porphyritized Andesite - Syenitized Andesite		3.0	.06		112.4 - 115.4
115.4	120.2	Basic Syenite - Fine grained basic syenite					
120.2	125.0	Porphyritized Andesite - Carbonatized, syenitized andesite (?)		4.8	.15		120.2 - 125.0
125.0	142.0	Basic Syenite - Carbonatized syenitized hornblende		2.0	.04		125.0 - 127.0
		syenite and inclusions of andesite. Little pyrite		5.0	.11		127.0 -132.0
				4.7	.09		132.0 - 136.7
142.0	203.9	Syenite - Slightly carbonatized coarse grained		5.6	.02		151.3 - 156.9
		syenite. Lost core - 143.8 - 149.0; 195.0 - 198.0		4.8	.02		156.9 - 161.7
203.9	210.3	Agglomerate - Slightly carbonatized chloritic breccia. May be an inclusion of agglomerate or conglomerate.					
210.3	361.3	Syenite - Coarse grained syenite. Carbonatized		5.0	.23		273.0 - 278.0
		sections and silicified sections. some highly		5.0	.02		278.0 - 283.0
		silicified dark grey. Little pyrite.					
		Lost oore - 214.0 - 215.0; 233.9 - 236.0; 266.0 to 267.0: 299.8 - 302.0: 309.6 - 310.0; 330.2 - 331.0					
361.3	364.0	Carbonate - Good fine pyrite. Probably originally diorite.		2.7	.04		361.3 - 364.0
364.0	376.5	Chlorite - Highly chloritic agglomerate, few stringers of white carbonate. Little pyrite.					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 76 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 59°56' West

	Dip
0	47°30'
200'	46°15'
400'	45°
530'	43°

Total Footage 600'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
376.5	378.0	Carbonate - Carbonatized, agglomerate. Fair pyrite					
378.0	381.1	Carbonate - Silicified carbonate breccia. Originally diorite and tongues of syenite. Fair pyrite		3.1	.06		378.0 - 381.1
381.1	391.8	Syenite - Brecciated, carbonatized and silicified coarse grained syenite.		4.9	.02		381.1 - 386.0
				4.0	.04		386.0 - 390.0
				1.8	.06		390.0 - 391.8
391.8	401.5	Carbonate - Silicified, carbonate breccia (diorite)		3.2	.52		391.8 - 395.0
		Last five feet is syenitized and cut by stringers of feldspar porphyry. Fair pyrite.		4.8	.04		395.0 - 399.8
				1.7	.04		399.8 - 401.5
401.5	415.0	Agglomerate - Slightly talcose chloritic agglomerate with somewhat carbonatized sections. Fair pyrite. Lost core 403.6 - 404.6		2.0	.03		401.5 - 403.5
415.0	423.0	Talc - Talcose, chloritic agglomerate. Little pyrite.					
423.0	428.0	Agglomerate - Talcose chloritic somewhat carbonatized agglomerate. Fair pyrite.					
428.0	429.0	Diorite - Dark silicified diorite (?)					
429.0	441.4	Agglomerate - Talcose, chloritic, carbonatized agglomerate. Fair pyrite.					
441.4	442.5	Lost core					
442.5	460.3	Talc - Talcose chloritic agglomerate. Little pyrite. Lost core - 442.6 - 444.0		4.4	.08		444.0 - 448.4
460.3	461.5	Carbonate - Talcose carbonatized diorite. Fair pyrite		1.0	.05		460.6 - 461.6
461.5	482.0	Talc - Talcose chloritic agglomerate. Little pyrite. Lost core 463.5 - 464.4		1.4	.02		461.6 - 463.0
				5.0	.50		463.0 - 468.0
				4.8	.06		468.0 - 472.8
				5.2	.04		472.8 - 478.0

Date of Examination

DIAMOND DRILL RECORD

Hole No. 76 Sheet No. 3

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 59°56' West

	Dip
0	47°30'
200'	46°15'
400'	45°
530'	43°

Total Footage 600'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
482.0	490.0	Talc - Serpentine-talc schist (Diorite?)					
490.0	492.0	Talc - Serpentinized talcose conglomerate(?)					
		There are both angular and rounded fragments of					
		many kinds.					
492.0	508.4	Lamprophyre - Coarse grained lamprophyre. This					
		rock is almost as coarse grained as a pegmatite					
508.4	517.0	Diorite - Slightly talcose diorite. Pink and white					
		calcite stringers.					
517.0	532.6	Talc - Talc and serpentine schists (andesite and					
		diorite dykes.					
532.6	543.3	Lamprophyre - Coarse grained gabbro type lampro-					
		phyre.					
543.3	550.4	Talc - Talc-serpentine schist. Stringers of					
		lamprophyre. Lost core 543.3 - 545.0					
550.4	551.9	Lamprophyre - Fine grained.					
551.9	587.2	Talc - Talc-serpentine schist and breccia					
		(agglomerate several small talcose lamprophyre					
		dykes. Some irregular white carbonate.					
587.2	600.0	Lamprophyre - Coarse grained, slightly talcose					
		lamprophyre. Lost core 589.0 - 590.0					
600.0		END OF HOLE					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 76 Sheet No. 4

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 59°58' West

	Dip
0	47°30'
200'	46°15'
400'	45°
530'	43°

Total Footage 600'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
		SUMMARY					
		7.0 - 12.0 — Porphyritized Andesite					
		12.0 - 111.0 — Basic Syenite					
		111.0 - 115.4 — Porphyritized Andesite					
		115.4 - 120.2 — Basic Syenite					
		120.2 - 125.0 — Porphyritized Andesite					
		125.0 - 142.0 — Basic Syenite					
		142.0 - 203.9 — Syenite					
		203.9 - 210.3 — Agglomerate					
		210.3 - 361.3 — Syenite					
		361.3 - 364.0 — Carbonate					
		364.0 - 376.5 — Chlorite					
		376.5 - 381.1 — Carbonate					
		381.1 - 391.8 — Syenite					
		391.8 - 401.5 — Carbonate					
		401.5 - 415.0 — Agglomerate					
		415.0 - 423.0 — Talc					
		423.0 - 442.5 — Agglomerate					
		442.5 - 460.3 — Talc					
		460.3 - 461.5 — Carbonate					
		461.5 - 492.0 — Talc					
		492.0 - 508.4 — Lamprophyre					
		508.4 - 517.0 — Diorite					
		517.0 - 532.6 — Talc					
		532.6 - 543.3 — Lamprophyre					
		543.3 - 587.2 — Talc					
		587.2 - 600.0 — Lamprophyre					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 76 Sheet No. 4

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 59°58' West

	Dip
0	47°30'
200'	46°15'
400'	45°
530'	43°

Total Footage 600'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
		SUMMARY					
		7.0 - 12.0 -- Porphyritized Andesite					
		12.0 - 111.0 -- Basic Syenite					
		111.0 - 115.4 -- Porphyritized Andesite					
		115.4 - 120.2 -- Basic Syenite					
		120.2 - 125.0 -- Porphyritized Andesite					
		125.0 - 142.0 -- Basic Syenite					
		142.0 - 203.9 -- Syenite					
		203.9 - 210.3 -- Agglomerate					
		210.3 - 361.3 -- Syenite					
		361.3 - 364.0 -- Carbonate					
		364.0 - 376.5 -- Chlorite					
		376.5 - 381.1 -- Carbonate					
		381.1 - 391.8 -- Syenite					
		391.8 - 401.5 -- Carbonate					
		401.5 - 415.0 -- Agglomerate					
		415.0 - 423.0 -- Talc					
		423.0 - 442.5 -- Agglomerate					
		442.5 - 460.3 -- Talc					
		460.3 - 461.5 -- Carbonate					
		461.5 - 492.0 -- Talc					
		492.0 - 508.4 -- Lamprophyre					
		508.4 - 517.0 -- Diorite					
		517.0 - 532.6 -- Talc					
		532.6 - 543.3 -- Lamprophyre					
		543.3 - 587.2 -- Talc					
		587.2 - 600.0 -- Lamprophyre					

Date of Examination

DIAMOND DRILL RECORD

Hole No. 77 Sheet No. 1

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location West Showing

Latitude N. 5,780.91
Departure E. 9,051.73
Bearing South 29°20' West

	Dip
0	43°30'
200'	42°

Total Footage 250'

Elev. Collar 10,013.89
Datum
Date Started November 29, 1946
Date Completed December 2, 1946
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
0.0	6.0	Casing					
6.0	80.1	Diorite - Slightly serpentinized diorite					
80.1	83.3	Diorite - Carbonatized diorite. Few small quartz stringers.					
83.3	88.0	Basic Syenite - Carbonatized, sheared basic syenite					
88.0	106.1	Carbonate (Diorite and basic syenite) Few small quartz stringers. Little pyrite.					
106.1	135.6	Diorite - Diorite with carbonatized sections.					
135.6	146.5	Basic Syenite - Basic syenite, few small quartz stringers. Little pyrite.					
146.5	150.0	Carbonate - Carbonatized agglomerate with a small dyke of basic syenite.					
150.0	186.7	Diorite - Last three feet somewhat carbonatized.					
186.7	193.3	Carbonate - Carbonatized agglomerate					
193.3	203.0	Carbonate - Carbonatized diorite(?). Few small quartz stringers. Little pyrite.					
203.0	210.0	Agglomerate - Chlorite-carbonate schist.(agglomerate).					
210.0	219.3	Diorite - Carbonatized diorite. Few small quartz stringers.					
219.3	235.0	Diorite - Slightly carbonatized diorite.					
235.0	250.0	Carbonate - Carboaate with schisted sections (Diorite with small inclusions of tuff) Few quartz stringers. Little pyrite. Lost core 244.0 - 250.0					
250.0		END OF HOLE					

Date of Examination

74

DIAMOND DRILL RECORD

Hole No. 77 Sheet No. 2

Property KELWREN PROPERTY, Hislop & Guibord Twps.
Location
Latitude
Departure
Bearing South 29°20' West

	Dip
0	43°30'
200'	42°

Total Footage 250'

Elev. Collar
Datum
Date Started
Date Completed
Drilled by
Logged by C. F. Cockshutt

Footage From	Footage To	Formation	Sample Number	Sample Width	Gold Sample	Gold Sludge	Remarks
		SUMMARY					
		6.0 - 83.3 -- Diorite					
		83.3 - 88.0 -- Basic Syenite					
		88.0 - 106.1 -- Carbonate					
		106.1 - 135.6 -- Diorite					
		135.6 - 146.5 -- Basic Syenite					
		146.5 - 150.0 -- Carbonate					
		150.0 - 186.7 -- Diorite					
		186.7 - 203.0 -- Carbonate					
		203.0 - 210.0 -- Agglomerate					
		210.0 - 235.0 -- Diorite					
		235.0 - 250.0 -- Carbonate					

Date of Examination

Drill Hole #78

Location 5741 N, 9160 E

Bearing

Dip Angles Collar 47°

200 42°

400 32°.

Sample #5 at 145

→375 : same as above to 352. Gradual change to brecciated chloritic rock. Change at 371 to grey leached rock. Probably carbonated and silicified.

→400 : Same as above to 396. Change to chloritic & syenitized brecciated rock. Many quartz stringers towards end of the box. Spheroids noted in syenitized lava at 400'

→405 : First foot highly syenitized lava then change to pink purple syenite. End of hole at 405.

400-405.

End of Hole

Hole NO. 78 KELWREN (Vincent Claim)

0-8 Casing

spotted

→32 : grey, massive, medium grained lava. Change at 30' to fine-grained, light grey lava

→55 : Same as above with leaching to 37'. At 37 fine-grained lava with purple colouration, in places it is brecciated. Continues to the end of the box. There is a slight decrease in the colouration towards the end of the box.

→79 : continuing fine-grained, dark-grey massive lava to end of box

→103 : Same as before to ~~95~~ 100'. A change to buff coloured fine-

to purple coloration which ends at 243. At 243 sharp change to syenite ~~feldsp~~ ar porphyry which continues to the end of the box.

→ 274: same as before to 261 when is transition to green buff cherty volcanic. At 267 ~~there is a~~ transition to light-grey medium grained volcanic. At 272 a transition to dark grey fine-medium volcanic - this goes on to end of box.

→ 298: Same medium fine-grained dark grey volcanic.

→ 322: same as above } carbonate stringers.
→ 346: same as above }

→ 391: Same as above

→ 395: Same as above.

→ 419: Same as above. Lost core 414-427.

→ 443: Same as above

→ 452: Same as above

End of hole

For #87 see immediately before #78.

Location :

Bearing : S 2° W

Collar : 45°

200' 39°

400'

Hole #1

#78 - See end of #87

HOLE NO

(79)

0-36: Casing.

→ 59: syenitized lava partially brecciated.

→ 83: mixed cherty and syenitized lava.

→ 107: Cherty syenitized lava

→ 132: Same.

→ 155: change to syenitized lava.

→ 179: same to 167, becoming splotchy to 167. Change to ~~splotchy, chlorite~~ syn diorite lava much carbonate, syenitized in places Highly pyritized.

→ 204: Change to chloritized lava, to end of box.

→ 229: chloritized lava to 226. change to reddish, felsitic porphyry; few phenocrysts

→ 253: same to 238. Change to fine, fragmental rock, pink fragments. Change at 247 to chloritized lava

→ 277: chloritized lava to 263. Change to red felsitic porphyry at 273 273 change to chloritic lava.

→ 302: chloritic lava

→ 311: Chlortic lava

END

80

Location: N. 6,124
E. 11,044

Bearing: S 40° W

Collar: 45°

200' 42°

400' 39°

HOLE NO. 80

0-5 Casing

5 - 28 : Syenitized lava to 15'. 15-18 syenite. 18-25 is blotchy fine grained, Hb rock. 25-28 is syenite

→ 52 splotchy, dioritic, Hb rock numerous syenite stringers

→ 75 : Same splotchy Hb rock

→ 100 : Same.

→ 123 : Same, becoming more splotchy and pinker

→ 148 - splotchy pink Hb rock to 127

127 - end is syenitized lava

→ 172 : Change to pink, purple syenite

→ 197 : pink purple syenite to 185

185-187 = buff light green fragmental syenite to end of box.

→ 220 : purple syenite. change at 214 to buff green fragmental

220 - back to syenite.

→ 242 : pink purple syenite.

→ 269 : pink purple syenite

→ 293 : Same.

→ 316 : Same.

→ 341 : Same.

→ 366 : Same to 354. Change to cherty, pyritized V.

→ 390 - dark grey chloritized Volcanics

→ 415 : chloritized V. numerous carb - blebs & stringers.

→ 437 : chloritic V. trending towards chloritic schist.

→ 457 : chloritic V. END

— V140' —

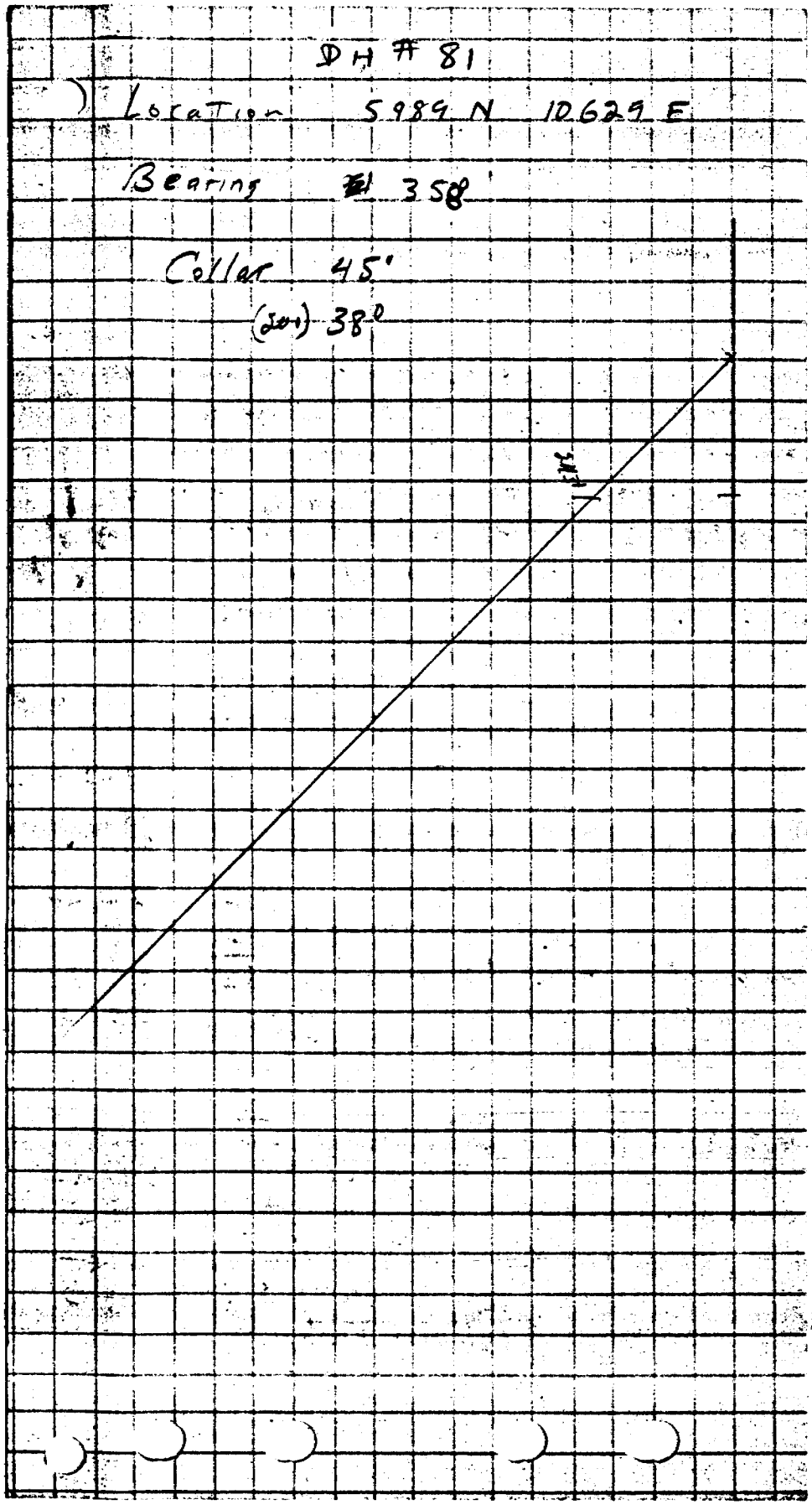
DH # 81

Location 5989 N 10629 E

Bearing 358°

Collar 45°

(Dip) 38°



HOLE NO. 81 (Kelowna)

0-55 : Casing.

→ 79 : Medium grained Hb rock.

→ 103 : Same. A few carbonate stringers.

→ 127 : Hb rock becoming fine grained to 115. From 115 to end of box is mixed syenite & syenitized blotchy rock. Pyritization in patches.

→ 150 : Same as above and brecciated to 139. To end of box is pyritized buff to grey cherty rock.

→ 175 : Same as above becoming syenitized toward the end of the box. Still pyritized.

→ 200 : Same as above to 187. Change to pink syenite to end of box.

→ 224 : pink syenite pyritized to 222. 222 - to end is massive fragmental rock.

→ 248 : Same as above, massive dk grey frag rock. A few syenite stringers. Numerous pink fragments. 225-13 sample rock continues to 229. The end of box is massive, medium grained rock in places brecciated and has numerous syenite stringers.

→ 266 : Same dk grey, massive, medium to fine grained rock in places coarse & hornblende bearing to the end of the box, numerous syenite stringers.

END OF HOLE

D.H. #82

Location = 6140 N 10554 E

Bearing = 177° (S 3° E)

Collar = 47°

(200) 51°

(400) 47°

Sample No 4 at 252'

" No 5 from 290'

HOLE NO 82 Kelwren

0 - 44: Casing

→ 68: From 44 to 51 fine grained Hb ~~Brec~~ rock From 51 a transition to Syenite to 60. At 60 a change to Hb-~~Brec~~. To end of box

→ 92: Same as above Hb ~~B~~ rock with numerous syenite stringers to 78. Change at 78 to Syenite; At 80 change back to Hb-~~Syenite~~ Change at 89 to syenite; At 91 change to Hb-~~Brec~~.

→ 116: change to brecciated syenite lava to 105. From 105 Mixed Hb-Brec & Syenite To end of box

→ 140.5: same as before for first 5 feet then change to spotted Hb syenite to end of box.

→ 165: Same as above to 150. Change to syenitized fine-grain material to 153. Lost core to 155. To 157 is brecciated, schisted chloritized rock At 157-160 lost core. 160-162 is light pink feldspar porphyry 162-165 lost core.

→ 189: First 2 feet lost. 167-168 feldspar Porphyry-sharp contact 168 to end of box is mixed brecciated chloritized Volcanic ~2% of Hb rock at 179

→ 214: Transition to brecciated chlorite schist-numerous carb. blebs

→ 236: Same as above to 219.

Sharp change to lamp. syenite to end of box.

→ 261: Same "before becoming finer grained and more syenitized to 249 Sharp change to fine grained fragmental to end of box.

→ 282: First foot same as above then change to chloritic schist with many carbonate blebs. At 281 a change to fine-grained reddish syenite porphyry. Note: phenocrysts are small.

→ 309 same as above to 291. Local development of biotite blobs in syenite porphyry from Hb. Becomes less porphyritic and more syenitic towards the end. 291' to end chloritic sch. SY brecciated with numerous carb blebs.

→ 334 - schist to 339. Change to reddish fine-grained syenite - Same as previous box, this continues to end of box.

→ 357 - First inch same as above. Change to brecciated, chloritized schist with numerous carbonate blebs. 357-83

→ 383: Same as above. Note: in middle of box blebs are sheared & schisted.

→ 404: Same as above with numerous syenite stringers and 2' syenite veins at 389.

EOD

(8)

Sample #6 at 225

83

Location: 5411 N
11,632 E

Bearing S 42° W

Collar 45°

Sample No. 2 at 382

HOLE NO. (83) Kehween

0-5 :- Casing.
5-30 : mixed highly syenitized lava and syenite
→52 : same. Note: pink to purple fine grained rock.
→77 : Syenitized lava
→101 : same.
→124 : same.
→147 : same
→177 : same. [illegible]
→195 : same to 178. Change to cherty chloritic lava to 189. 189 to end of box is chloritic lava with carb. stringers.
→219 : chloritic lava. numerous carbonate blebs and stringers
→243 : chloritized lava for first 6 feet. Change to slightly syenitized fine-grain lava. 233 change to chlor. lava to end of box.
→269 : chloritized lava.
→293 : chlor. lava grading to chlorite schist.
→316 : chlor. lava to end of box
→336 : change to massive, medium fine-grained lava slightly chloritized.
→345 : chloritized lava

END

#84

Location 4968. N
13,022 E

Collar - 45°

Bearing - S 43° W

HOLE NO

8.4

Kelowna

0 - 99 : Casing

→ 121 : Dark grey, medium fine-grained lava.

→ 145 : Same, partially syenitized in patches.

→ 168 : massive, medium f.g. Syenite lava. 158 - to end of box lost core

→ 191 : lost core. 191 - 215 is lost core.

→ 239 : syenitized lava to 223. 223 to end of box is mixed pink, purple syenite.

→ 264 : purple & pink syenite to end of box.

→ 288 : Syenite to 267. Change to cherty, grey, volcanic to 281. To end of box is dark grey, cherty, syenitized lava.

→ 312 : Syenitized lava. Numerous carbonate stringers in first 15' (i.e. to 303)

→ 336 : To 317 syenitized & chloritized lava. 317-322 is chloritized lava. 322 to end is grey, massive, medium fine-grained lava.

→ 360 Same. Numerous carbonate stringers. Rock has speckled appearance.

84

→ 384: Same, becoming chloritized towards end of box.

No more core.

7 the / 1:00

84

Storage 1 -- 5000 gals

J Moore Well 300' Deep

nC

Pump 5000 gals per min for 72 hrs.

Stands at Collar.

Dropped 45' in 1/2 hour

Then constant.

Hole 85 from Log

Col 50', 200'-37°, 380-39°,

119
↓ andesite
135
↓
170 Feld Path.
↓ ~~Est~~ Path andesite
192
↓ Pr. Syenite
218
↓ Feld Path
227 ↓
↓ Agglom
233
↓ Carbonate
274
↓ Talcose
313

87

Location: N 4486
E 13716

Bearing S 10° W

Collar 50°

200

HOLE NO. 87 Kelvren.

0 - 74 ; Casing.

→ 98 : Syenitized lava

→ 122 : Dsepctrad lava becoming cherty towards end of box

→ 146 : Change to syenitized lava

→ 169 : Same. Only slightly syenitized towards end of box,

→ 193 : Slightly syenitized lava to 173 . 173 - 186 good spherulitic horizon with lge. blotchy spherules. 181 - end is medium fine-grained, dark grey lava.

→ 216 : Same, becoming fine-grained towards end of box. Occasional spherules.

→ 240 : Same to 218 . 218 to end is slightly syenitized fine-grained lava

→ 264 : Slightly syenitized and fine-grain lava.

→ 288 : Change to light-grey, cherty volcanic, pyritized.

→ 312 : Same cherty volcanic becoming syenitized towards end of box, numerous carbonate and syenite stringers.

→ 337 : Mixed syenite, syenitized lava and massive, medium fg. lava.

→ 361 : Syenite & syenitized lava to 350 . 350 to end of box is chloritized lava

→375 : same as above to 352. Gradual change to brecciated chloritic rock. Change at 371 to grey leached rock. Probably carbonated and silicified.

→400 : Same as above to 396 Change to chloritic & syenitized brecciated rock. Many quartz stringers towards end of the box. Spheroid noted in syenitized lava at 400'.

→405 : First foot highly syenitized lava then change to pink purple syenite. End of hole at 405.

400-405.

End of Hole

Hole NO. 78 KELWREN

(Vincent Claim)

0-8 Casing. spotted

→32 : grey massive, medium grained lava. Change at 30' to fine-grained, light grey lava.

→55 : Same as above with leaching to 37'. At 37 fine-grained lava with purple colouration, in places it is brecciated - continues to the end of the box. There is a slight decrease in the colouration towards the end of the box.

→79 : continuing fine-grained, dark-grey massive lava. To end of box.

→103 : Same as before to ~~98~~ 100'. A change to buff coloured fine-

DH #88

Location: 4984 N 13,252 E

Bearing: 226°

Collar: 60°

200 52°
400 51°
600 48°
800 48°

Sample Hole 798'

HOLE #88 (Kelwren)

0-80 Casing

→104: massive, dark grey, fine grain lava

→127: massive fine grained lava, slight purple alteration.

→150: dark grey, fine grain lava, slight purple alteration.

→177: Same as before to 166. Change to medium fine grain lava.

→200: Medium, fine grain lava

→224: Slight evidence of syenitization otherwise same as above.

→248: Transition to syenitized lava to end of box.

→273: Syenitized lava ~~replaces~~ in places cherty and brecciated

→298: fine grained syenitized lava

→322: " " "

→346: " " "

→370: " " "

→394: fine gr. sy. lava. A few syenite stringers

→418: " " " "

→443: Syenitized lava to 428'. 428 to 440 is cherty, buff, pyritized rock partially syenitized. 440 to end is dk grey, massive, medium fine grained lava

→467: Dark grey, massive, med. fine grain lava to 459. 459 to end is mixed porph. syenite & syenitized lava.

→492: Highly syenitized lava with reddish syenite stringers.

→518: Highly syenitized lava to 507. 507 to end of box development pink syenite.

Drill Hole #89

Location 4,915 N. 14,282 E check.

Bearing 210°

Dips Collar 45°

Sample No. 2. from 566

~~Sample No. 3 from 608~~

HOLE NO (89) KELWREN

0-91. Casing

91-114 :- medium fine grained volcanic partially syenitized. Dark grey, massive

114-139 :- Same as above with syenite stringers.

139-163 :- same as above, partially syenitized, quartz stringers towards end of box at 40° to core.

163-187 : syenitized lava (not intense) occasional quartz stringers.

187-210 : First 2 feet syenitized. 189 to 190 cherty alteration and slight pyritization. 190 to end of box is syenitized lava.

210-236 ; Syenitized lava, more intense than before, with occasional syenite stringers.

236-261 : Same as before becoming more intense to 241. 241-243' syenite dyke 243 to 252 cherty grey syenitized lava. From 252-254 syenitized lava and 254 to end of box is sheared, chloritized lava with patchy syenitization.

261-285 : Transition to chlorite schist Highly brecciated

285-308 : Brecciated chlorite schist slight blue-purple alteration in patches. Box Pyritized; with one foot quartz vein at 300.

308-330 : chlorite schist becoming more massive towards end of box and possessing numerous carbonate

blebs.

330-357: chlorite schist

357-378: chlorite schist with occasional carbonate threads & stringers

378-404: chlorite schist, massive

404-430: chlorite schist

430-457: Chlorite schist, brecciated

457-482: chlorite schist to 474. Sharp transition to fine, blotchy-

** purple syenite, to end of box. (possibly highly syenitized lava)

482-506: Same as before, splotchy dark, syenite trending to highly syenitized lava, in places highly pyritized. Sharp syenite stringers towards end of box.

506-530: mixture chloritized lava and highly syenitized lava and/or syenite stringers. Syenite exists as fine grained purple rock sometimes with sharp contacts.

530-554: mixture chloritized lava and syenite stringers

554-578: Change to, Hk-Bi blotchy intrusive

578-602: Transition to syenite to 590. Ununiform and in places blotchy At 590 a transition to chloritized lava, partially syenitized. This continues to 598 At 598 change to chlorite schist.

602-628: change to chloritized blotchy lava. At 621 change to pyritized syenite to end of hole.

628 - 667: Same as before for first 2 feet. From 630-677 splotchy chloritized lava. 637-38 syenite stringer with carbonate and quartz stringer cutting it at 10°.
638 T.O. end of box. Massive chlorite schist with stringers of syenite in places.
667-692: chlorite schist with 4' band of Hb-Bi rock.
692-712: chlorite schist with carbonate blebs, brecciated.
717-742: massive dark grey chlorite schist with numerous carbonate blebs and threads.
742-767: massive chlorite schist with numerous blebs & threads of carbonate.
767-792: massive chlor. schist with few carbonate blebs.
792-817: massive chlorite schist. Schistosity is approximately 35° to the core.
817-542 - chlorite schist
842-869: Same to 848. Sharp change to massive, medium-grey, spotted, chloritized lava - to end of box. (M.V.)
869-892: Dark grey, massive, spotted, fine medium-grain lava.
893-918: same as above to 900.) transition to lighter coloured, fine-grain lava.

918 : 943 – Grey massive fine medium grained lava

943 - 967 : Same as above.

967 - 992 : Same like before.

992 - 1000 : massive fine grain lava

END OF BOX

Drill Hole #91

Location 4,445 N 14,973 E

Bearing 210°

Dips Collar: ~~45~~ 50°
400 45°
600 51°

HOLE NO. 91 (KELWREN)

0-132 : Casing

132-156 : Syenitized lava with pyritization towards end of box.

156-181 : Change to dark grey medium grain. lava, in patches it is syenitized.

181-205 : Same as above.

205-230 : Transition to medium-grained dark-grey lava, in part chloritized.

230-254 : Change to massive, dark-grey fine medium-grained lava.

254-279 : Same as above.

279-304 : Same as above becoming purplish to 296. From 296 shear change to brecciated chlor. schist.

304-327 : Same as above.

327-352 : Same as above. chlorite schist

358-376 : chlorite schist.

376-401 : chlorite schist, becoming very talcose

401-426 : chlorite schist

426-457 : chlorite schist - still very talcose

457-485 : chlorite schist.

485-510 : chlorite schist

510-537 : chlorite schist - v. talcose

537-557 : chlorite schist.

557-583 : chlorite schist, massive and brecciated, in part.

583-614 : Brecciated chlor. schist. a few carbonate blebs in patches

614-641 : chlorite schist brecciated more talcose

641-665 ½ chlorite schist. Many carbonate blebs in patches.
665-690: Chlorite schist becoming less chloritized towards end of box. Transition to chloritized lava at 678.
690-715: Dark massive, medium fine-grained, chloritized lava.
715-740: Same as above.
740-761: Same as above, becoming more chloritic towards end of box.
761-786: Same to 783. Transition to chlorite schist.
786-811: Same as above i.e. chlorite schist, massive.
811-835: Chlorite schist with numerous blebs and patches of carbonate.
835-860: Same as above, with numerous blebs of carbonate.
860-884: Chlorschist with numerous blebs of carbonate. From 867-868 a lamprophyre syenite.
884-909: Chlorite schist.
909-934: Chlorite schist, plenty carbonate patches.
934-959: Chlor. sch. with numerous carbon. patches and stringers.
959-983: Ch. sch.
983-988: Same.

END OF HOLE

91

Sample No. 5 from 328

Drill Hole #92

Location 5645 N, 10,100 E

Bearing 210°

Dip Angles	Collar	45°
	200	41°
	400	29°
	600	23°
	800	18°
	1000	17°

Kelore DD #92.

0-45 casing

47-65 Variously syenitized (purplish) Lavas to 64 - then bleached.

65 - 90.4 10' bleached (silicified or carb.) f. gr. volcanic. Slightly syenitized lavas plus odd bleached zones

→ 115.2 Irregularly syenitized lavas as above to 106'! Then fine med. gr. massive greenish volcanic

→ 139 Same except for purplish silic-carb syenitized band @ 132.6.

split → 163. Same green massive lava to 151½. change to distinctly purplish fine grained amygdaloidal lava, purple fading to buff at 157 → bleached fine grained Volcanics to end of box

split → 189. Change at 163.6 to coarser bleached volcanic material to 172½. Buff light coloured bleached lava to end of box, some amygdules.

split → 212 Bleached fine grained blotchy lavas cut by numerous quartz stringers to end of box.

split → 231. Same much riddled by qtz carb stringers.

split 262 - Same bleached (Silic + Carb) Lavas.

[illegible] 250-262 Removed for Assay.

287.8 Core removed. Termed tuff [illegible] ???

287.8 → 313.8 2' core removed for assay then split core – bleached altered lava & fragmental, last few missing

→ 333.3 Core missing to 319'. Then 1' split qtz vein. Then whole core – massive med-fine grained lava riddled with stgrs. qtz/carb?

→ 358 Less bleached, stringer riddle green massive med-gr. lava. Some amygdules. Less above.

→ 382.5 Same

→ 416.9 – Much same but more massive & no amygdules. Less stgrs.

→ 431.9 – Much same massive lava

→ 456 – Same massive green lava but more carb stgrs again. (Lack of bleaching around these evident).

456 → 479 – Blotchy dark green volcanics. Streaky syenitization.

→ 504' Same fine grained volcanics but becoming lighter coloured & more carb stringers.

→ 528.5 Speckled volcanics in part amygdaloidal but most of specks probably introduced. Plentiful tiny carb stringers. Well mineralized in part, & slightly purplish.

→ 552 Split core. 530 – 533½ f.g. but granular textured pink felsite; then splotchy lava material

552-578 - Splotchy light green lava material - seeming massive in last 2 feet

→602.7 Same massive fine-med. grained lava with some quartz st grs.

→627.7 Same.

→652.5' Change in first foot or two to finer grained splotchy lava. Split from 651. 3' purplish massive amygdaloidal lava.

split →675 Change to bleached tuffy splotchy volcanics + Qtz st grs

split →699.7 Same splotchy V with minor Qtz + f. pyrite.

" →724. Same to 713 then darker possibly f.g. amyg. (black) P.L. Change in last 6" to bleached lava.

" →748.6 - Bleached + partially syenitized f.g. lavas cut by qtz st grs.

" →773. Variously syenitized splotchy lava (possibly ~~splotched~~ P.L.). cut by Qtz st grs. F.P. from 760 - 766 (including a qtz st grs.) = syenite porph.

→797.1 Splitcore ends at 803' at end of bleached zone. Then massive greenish P.L. with some amygdules.

→821.4 Same.

→846 "

→869 " amyg. P.L.

→893 More massive lava. Some amygdules + carb stringers

→919 Splotchy lava with amygdules.

→943 More massive. Still light green.!

948-991.8' Splotchy lava + Top materials becoming progressively more leached to bottom.

→ 1001.2 (Ends) Much leached lava Top materials with evident oxidization.

Drill Hole #93

Location 4780 N - 1078 E

Bearing 210°

Dip Angles Collar 45°
200' 40°
400' 36°
600' 32°
800' 32°
1000' 31°

93

#93

0-106 ~~Casing~~

106-139 Split core. First 15' qtz carb vein material and rusty zone

121 buff cherty looking tuffs ?? to end of core

→165 Split Core, containing buff tuffs (schist) for 13' with qtz stringers then more vein and chloritic material in last ten feet, highly schisted.

schisted bleached

→192.4 ~~Continuing~~ schisted buff Tuffs?

→217 Same buff cherty "tuffs" but with more quartz stringers

→241 Change to less schisted and carbonated light coloured lava (buff colouration seems to be due to silicification)

Blotchy lava

→266 blotchy fine grained lava becoming more greenish.

→290.6 6" lavaes above. Then fine to medium grained spotted dioritic volc.

→315. ~~Continuing~~. Becoming a darker green. Spotted MDV to 327' then M.V

MDV →339 Same massive DV to end to zone

→364 MDV continues to 362 then possible chilled lava contact. Last foot shows purple alteration

f.g. lavas →388.9 1½' purplish amyg. lava with chilled edge against green lava. Then all massive fine-med. gr. lava Last 6 inches is finer grained

→413. f.g. lava. some amygdules.

→437.2 split fine grained sh & brecciated lava? cut by numerous quartz stringers.
→462. Continuing fine grained light coloured blotchy lava!
→486 f.g. dk grey-green lavas. Some amygdules.
→509 Same Amygdaloidal lava.
→532.6 Black amygdaloid – P.L.
→557 Pillow Lava. few [illegible] Amygdules Possible Tops Up (North)
→581 Same P.L. few Amygdules
→605.5 " " "
→630.2 change to blotchy fine grained lava.
→654.3 Same as above a little lighter in colour
Splotchy Lava →678.7 Very splotchy lighter green lava.
→703. Same. Change at 681 to [illegible] pillow lava as seen above.
→727.5 Splotchy light green lava to 716 then massive fine-med. textured lava. Numerous irregular chlorite & carb/quartz stringers. Some amygdules.
Massive Amyg. Lava →775 Mixed fine-med. and fine grained amyg. massive lava.
→800 Same.
→824 (Massive fine-med gr. lava)
→848 Same. Some Amygdules. Possible pillows or flow structures
→872 Same to 881. Then black-ag & sph. Pillow Lava. [Porp]
Bl. Amyg Sph. lava →896 Mixed fine & very fine P.L.

896.5 → 921' fine grained Amyg. P.L. → 907'
then fine - med grained massive green
lava, some amygdules.
→ 945' Same.
→ 969. Same with flow amyg & possible
pillows or top material changing
to a med. grained volcanic.
→ 994 Same to about 980. Gradual
change to fine grained sph. & amyg.
lava. Last two boxes lighter
coloured. Possible Tops Up?
→ 1,004' (Ends). Markedly bleached f.g.
lava & flow top material. One
fr. Tourmalized quartz in bottom hole.

Drill Hole #94.

Location: 4245 N, 1162.5 E

Bearing: 210°

Dip Angles:

Collar	45°
20'	44°
40'	41°
60'	40°
80'	35°
100'	34°

Kelore.

D.D. Hole #94

Box I 5.3-30.8 – Amyg. P.L. Tops up. Confirmed.
Box II 30.8-54.6 – " + non-amyg. P.L. from 36'.
The latter slightly coarser grain size

(3) P.L. →78.5 – f.g. massive P.L. to 66' then coarser type but still pillowed to 76½'. This is a spotted (Hbdic) type lava in part.

(4) Hb DV →102.9' – Continues massive + sometimes spotted DV to 98.5' where a coarse [illegible] Hbdic DV comes in. Very noticeable patches Hb.

(5) →126.5 – Same Hbdic Volcanic. [illegible]

(6) →151.0 – Same

(7) →175.3 – Same, but appears to grade to less Hbdic DV

(8) –199.2 – " MDV. Believed to be a lava. [illegible]

(9) –229.0 – " Change @ 217 to f.g. lava.

(10) →247.6 – Finer textured lava continues to 238½ then Amygd. P.L. (very f.g.). @ 242' the amygdules are black or have dark material around white centers. Tops still up?

Amyg. P.L.

(11) →272.2 – Amygd. P.L. Black spot type. Schist. // core to 35°.

Spec.

(12) →297.6 – Same bl. spotted Amyg. P.L. to 293'.

(13) →320.7 – Med. textured blotchy lava.
Carb + Chalcopyrite [illegible] 300-301

(14) →345.7 – Same as above, to 327. Then f.g. grey F.P. becoming pinkish + with more evident Hb. @ 340'.

Spec.

(15) →370.3 – All F.P. Pink to 355 then grey to whitish + finer grained. Last 5' shows colorless granular feldspar? instead of white, with occasional green spots. Same

F.P.

white centers to otherwise colorless granules feldspar?

Spec.

(16) → 394.9' — 371½ - 372½ bedded slaty tuff with pyrite along one bedding plane across minor fold. Typical? Then "spotted green" porphyry to 383'. then mixed textured mixture porphyry + tuff. Cherty tuff with fine dark beds from 383 →. Split core from 387' →. Pyrite.

(17) → 418.0' Split core. 6" cherty tuff + then probably all felsite: dense gr-white. Some pyrite.

(18) → 442.4. 5' split core — pinkish dense felsite. Probable contact with fine dense tuff? @ 423¼ (about whole core) Split core again at 434½. Possible contact with f. dense felsite at 435 continues to end hole. Contains coarse pyr.

f. p. felsite ↑ / Tuff + seds. ↓

(19) → 467'. All split. All fine whitish dense felsite or massive tuff. Mineralized pyr.

(20) → 491.1' — Massive felsite or tuff (without pyr.) continues to 481'. Then 1½' mixed felsitic + chloritic materials. Then dense cherty tuff to end ~~hole~~

(21) → 515.9 All split. Dense cherty tuff. No pyr. At 515' slightly greenish contorted rock.

(22) → 541.2. (+6" more greenish tuff as above) Cherts continue through top. Bedding @ 15 to 20° to core. Pasty zones in last ten feet. Bedding sometimes almost parallel to core. Believe these rocks to be fine grained sediments.

P.

~~[illegible]~~

(23) 541.2 → 565.5 f.g. whitish seds? continues to 546'. Then fine - med textured, slightly [illegible] syenite. last 1½' rusty.

Syen.

(24) → 590' - 15' mostly rusted syenite? with small band whitish syenite. At 580' change to cherty, whitish spheroidal lava.

(25) 590 → 614.8 Split core continuing. First ten feet is a med grained massive tuff? or F.P. with numerous qtz-pyr- green mica stgrs. Then more light coloured spheroidal lava. Light color due to the porcelanic grey spheroids being much more abundant. Then the green chloritic? groundmass concentric structure visible in some spheroids. Largest are 1/4". Some flow top sph. lava. Few qtz st. grs. last 3' rusty. last 6" of green spotted F.P.? like start of box without the spots.

Sph. lava

(26) 614.8 → 639.6 All split. 3' rusty rock. 618 - 633 pinkish syenite, fine grained hornblende needles. 633 change to green massive D.V. 638 change to similarly green lava material

Syen. lava

(27) → 664.5 all split. all dark green unlike previous boxes, mixed blotchy spheroidal tuff material and related MDV with purple stringers and patches. 642.5 - 643.5 qtz vein and silicified wall rock.

(28) → 689.2 all split, still darker andesitic irregularity blotchey lava with patches of purple alteration

(29) → 713.5 all split, lighter coloured blotchey, generally spheroidal lava Last five feet generally more altered.

(30) → 738.1 First 2½' split, purple hued spheroidal lava to 733 massive to end of box

(31) → 762. Continuing massive to 743 then some spheroidal lavas to end of box becoming increasingly altered

(32) → 786.2. Continuing blotchy spheroidal lavas.

(33) → 811.3. Continuing blotchy spheroidal lava. 806'–806' amygdaloidal ... rusty zone then blotchey spheroidal lava to end of box. (purple)

→835.7 Split. Continuing altered sph. spl. ... Minor qtz carb. ... Rusty from 832

→861.2 4' split rusty core, then amygdaloidal and spheroidal lava till 856 change to fine grained light coloured massive lava. (Note out of purple alteration)

→ 885.5 Continuing massive lava to 893 then 2½ rusty material (split). 895½ — end of lava light green irregularly spherulitic lava

→ 910.3 Continuing light green irregularly spherulitic lava.

→ 934.2 Continuing spk. lava with last ten feet of flow typical spk. lava.

→ 959.1 Continuing generally light green spherulitic & amygd. blotchy lava

952 last two feet massive lava.

→ 983.8 massive lava, grey green changing to grey

→ 1000 grey massive lava to end of hole.

Drill Hole #9:

Location 4,780 N 15,735 E

Bearing 210°

Dips Collar 45°
200' 46°
400' 48°
600' 43°
800' 46°

HOLE NO. 95 Kelwren

0-131 Casing.

131-154 : massive, dark grey, medium fine grained lava.

154-179 : Same

179-202 : Same as above To 197. Change to mass. dark grey, fine grained lava.

202-228 : Same with a few blebs & threads of syenitic material.

228-251 : dark grey fine grained massive lava, note: at 238 is 3' of flow top material.

251-277 : same as above with brecciation in places.

277-300 : Same with occasional amygdules increasing towards end of box.

300-327 : Same with good amygdule horizon to 312. At 321 a sudden change to fine-grained grey lamp. syenite.

327-351 : same as above (possibly is a lamprophyre syenite) to 333 At 333 a sharp contact at 30° with fine grained lava. This continues to end of box. There is characteristic grouping and gradation of spherules throughout the box, indicating a flow lava. There is an absence of selvage.

351-376 : Dark grey, massive, fine grain lava with a few groups of amygdules.
376-400 : fine-grain massive lava with a few stringers of syenite material.
400-425 : Same as above.
425-450 : Same with a few amygdules some filled with pyrite
450-474 - Same with a few amygdules.
474-499 - massive, dark grey, fine-grain lava. Occasional spherules and amygdules.
499-525 : same to 515. Change to massive, dark grey medium fine grained lava.
525-550 : Same to 535. Change to massive, dark grey fine-grained lava. Few amygdules.
550-572 : same as above with occasional syenite stringers.
572-596 : Change to dark grey massive, medium-fine grained lava. Numerous syenite threads & stringers.
596-620 : Same as above.
620-647 : Transition to slightly syenitized medium fine grain lava to 642. Change to grey-pink fine grained felsitic material.

647-673 : Same as above for first foot then a change at end of box To massive, fine grained dark grey lava

673-697 : Same To 685. Change To massive, fine-grained, dark grey lava to end of box.

697-721 : Same as above with occasional band of coarser grained lava.

721-745 : Same as above To 728 Transition To massive, dark grey medium fine grained lava

745-769 : Same as above.

769-794 : Same as above

794-818 : Same as above becoming slightly brecciated.

818-842 : Same as above becoming Slightly blotchy towards end of box

842-866 : Same as above with 3 foot quartz Stringer at 857

866-891 : massive, dark grey medium fine-grained lava.

891-915 : Same as above To 901 change to syenitized lava. Slight pyritization

915-939 : Syenitized lava with a few syenite stringers. (Syenitization on the whole is not intense

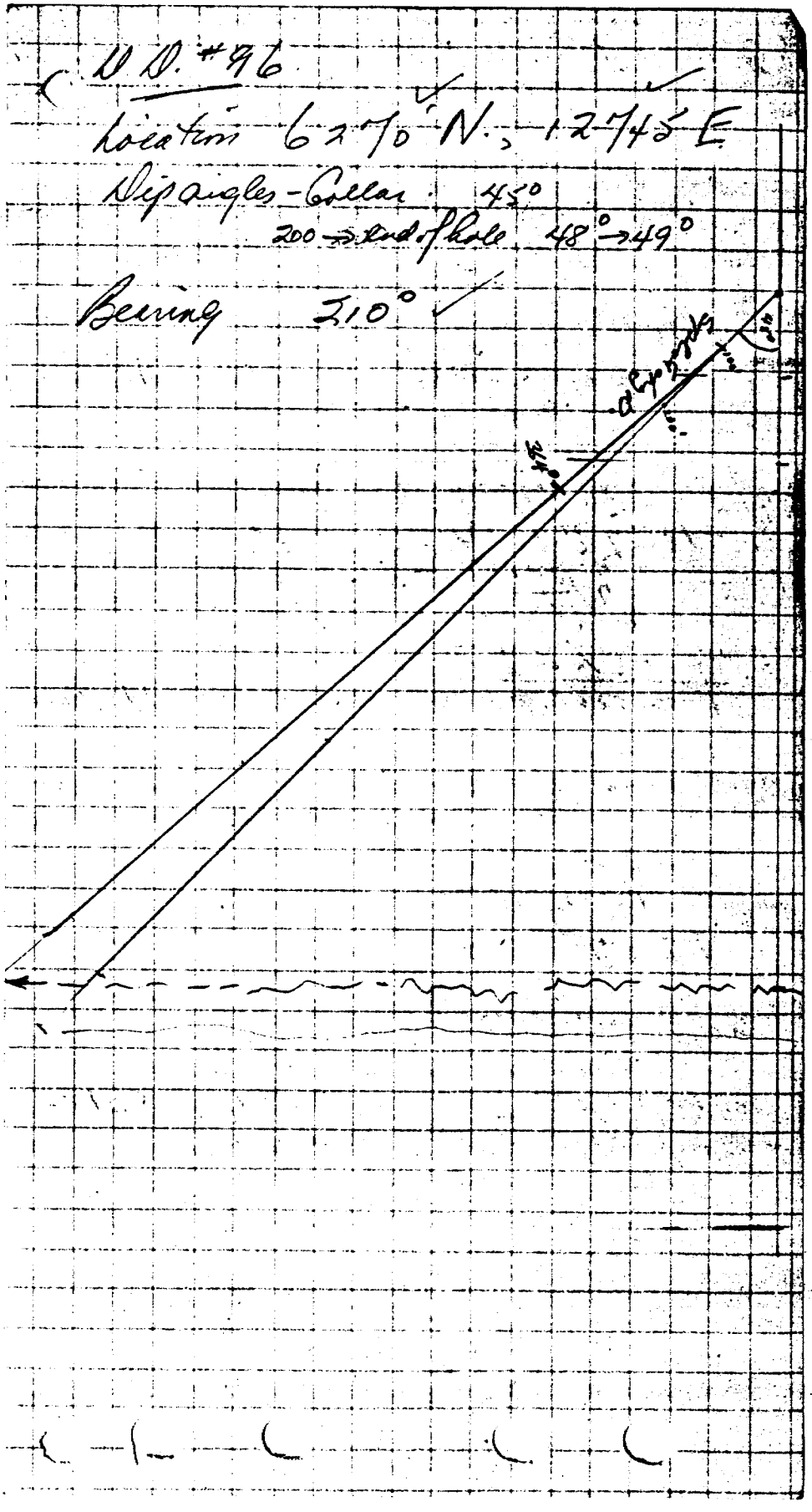
939-963 : Syenitized lava (most intense) considerable pyrite.

963-987 : Syenitized lava with pyritization. less intense towards end of box.

95

987-1007 ; Slightly Syenitized lava with syenite stringers to end of box.

END OF HOLE #95


D.D. #96
Location 6+70 N., 12+45 E.
Dip angles - Collar 45°
200 → end of hole 48° → 49°
Bearing 210°

Drill Hole #96.
Bearing 0 - 11.7

→ 146 – Dioritic lava first 3 inches
Change to fine grained lava
partially syenitized to end of box
→ 170 Same as above to 151' – Change
to splotchy dioritic rock
partially syenitized to end of box
→ 194 Same as above
→ 218 Massive spotted splotchy
dioritic rock partially syenitized
→ 241 Massive spotted splotchy
dioritic lava.
→ 267 Same as above with occasional
syenite stringer
→ 291 Massive spotted splotchy
dioritic rock to 293 – Change
to massive splotchy dioritic
rock 298 – Change to syenitized
splotchy dioritic rock to 284 –
Massive splotchy dioritic to end of box
→ 315 Massive splotchy dioritic
rock to end of box.
→ 341 315 → 317 Same as above.
317 to end of box, medium
grained lava with numerous
syenite patches and stringers
→ 364 Same as above with fine
carbonate stringers and very
light purple alteration.
→ 388 Change to medium fine
grained lava to 384' – Dark
grey massive fine grained lava to end of box

→ 412 Dark grey massive, fine grained lava.
→ 436 Same as above
→ 460 " " " pyritized in place
→ 485 Change to med. fine grained lava to end of box. Becoming pyritized at end of box.
→ 510 Same as above with more intense pyritization to 494 — Medium grained lava with light purple colomation to end of box.
→ 534 Same as above becoming finer grained toward end of box. Purple Colomation and pyritization present
→ 558 Dark grey medium fine grained massive lava with patches of segemtization to end of box
→ 583 Dark grey med. fine grained massive lava, sylhitized
→ 607 Medium fine grained dark grey massive lava.
→ 631 Dark grey massive fine grained lava
→ 656 Same as above with occasional very small sylnite stringers
→ 681 Same as above with sylnitized patches
→ 705 Same as above with occasional sylnite patches.
→ 729 Same as above with occasional spherods??
→ 753 Same as above.

→ 778 Dark grey fine grained lava
with slight purple
discoloration
→ 802 Same as above
→ 827 " " "
→ 850 Transition to medium fine
grained dark grey andesitic
lava.
→ 878 Same as above.
→ 901 " " "
→ 925 Transition to fine grained
→ 950 Massive dark grey fine
→ ? grained lava
→ 974 Same as above, slight pyritization
→ 999 " " " " "
→ 1025 Transition to med. fine grained
→ 1049 Fine grained lava
→ 1074 Same as above
→ 1100 Transition to fine grained
massive lava last 4' pyritized
→ 1125 Massive dark grey fine grained
lava with pyritization
→ 1150 Same as above - last 2'
quartz stringers
→ 1175 Same as above.
→ 1199 " " " with pyritization
(faint) with small amounts of
magnetite towards end of box
→ 1224 Same as above - partially pyritized
and pyritized.
→ 1249 Same as above - pyritized
→ 1273 Fine grained pyritized lava
to 1258 - Change to massive

Dark grey fine grained lava.
→1299 Fine Grained light grey (cracked) lava - brecciated in places
→1322 Same as above to 1308 — To end of box syenitized (light) lava
→1349 Slightly syenitized lava with pyritization in patches.
→1373 Lava as above without pyritization
→1397 Massive dark grey fine grained lava
→1422 Same as above
→1446 " " " syenite stringers at 1433
→1470 " " " " " " 1467
Slight syenitization in patches
→1495 Change to red. fine grained lava to end of box
→1519 Same as above to 1505 — Change to fine grained lava
→1544 Fine Grained syenitized lava small pyritization
→1567 Syenitized lava increasing in intensity to end of box
→1592 Syenitized lava, increasing in intensity to 1583' Also pyritized
1583 → Change to pink purple syenite to end of box
→1616 Pink-purple Syenite to end of box.
→1639 Same as above,
→1664 " " becoming fine grained and darker in colour towards end of box
→1688 Coarse pink purple syenite

9b

→1713 Same as above

→1737 " " "

→1741 " " " Top end of Hole

Sample #3. Segment 2 1613' (20)

96

Drill Hole #97

Location 7516'N, 13,400E

Bearing 210°

Dip Angles Collar 45°

200 47°

600 50°

Kelore #(97)

0–141 Casing

141–167.7 Dark green (soapy) Talc-chlorite schist.

→191 Same

→214 Same to 196½ then changes abruptly to f.g. green [illegible] lava.

→232.5 Same. Reverts to Chl. Sch.

@ 233' Again a sharp contact

→260 Chloritized Volcanics (soft but not real "soapstone")

→284 Talc chl. schist + massive soapstone

→308 " " "

→332 " " "

→360 Much the same.

Spec. 371' →386.4 Same Talc-chl. Schist – breccia

→411 Brecciated Talc-Chlorite Schist. Not so soapy as above.

→437 Brecciated Chl. Schist to 457¼ then sharp change to hard med. gr. [illegible] for 6'. Then 3' mixed hard rock + soapy rock

→489 Talc Chl. Schist again

→512 Talc chl. breccia rock

→543 " " " "

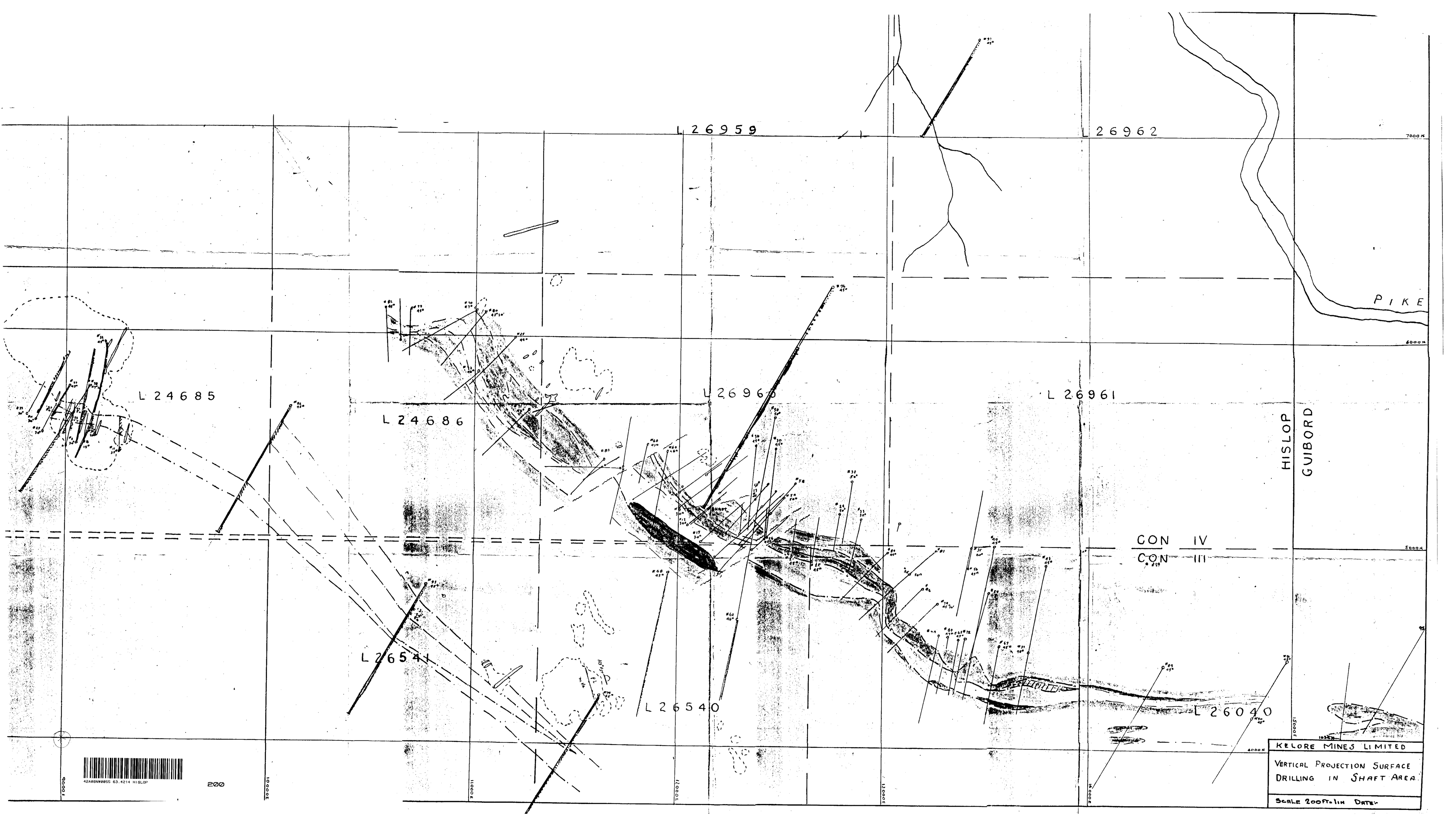
→583 " " " "

→610 Same with lamprophyre at 588 to 595. Spotted type. Feld + Bi.

→636: Chl. Sch. → 612'. Massive hard lava? to 622½. Chl. Sch. → 624½ then massive lava grading to porphyritic lava?

→629 Start Soapstone! → 630

630' - phenocrysts fading out.
Soapstone @ 633 → 636.
→661. 2' chlorite sch. then
Lamprophyre dike to 660½. then
chlorite schist
→685.7 Lamprophyre to 673
then into somewhat chloritized
massive volcanics.
→714.1. Massive Chloritized Volcanics
→738. Brecciated and massive
chloritized volcanics
→769. Same to 742, Lamp to
747 Schist to end of box.
→781 Chloritized schist to end
of hole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L 26040
7000 N
6000 N
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4000 N
10000 E
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12000 E
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15000 E
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DRILLING IN SHAFT AREA
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200