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REPORT ON GEOLOGY OF NORSE EXPLORATIONS LTD.
BIRKENHEAD AREA HOLDINGS
NOR 1 TO 47, DEE 1 TO 24, BIRK 1 TO 10 CLAIMS

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AUGUST 11, 1969

R. J. BECKETT

REPORT ON GEOLOGY OF NORSE EXPLORATIONS LTD.
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CONTENTS

	<u>PAGE</u>
LOCATION	1
GENERAL GEOLOGY	1
NOR CLAIMS	1
ECONOMIC GEOLOGY	2
DEE GROUP AND PROHIBITION GROUP	2
GENERAL GEOLOGY	2
ECONOMIC GEOLOGY	3
BIRK CLAIMS	3
GEOLOGY	3
ECONOMIC GEOLOGY	5
Bralorne Showing	5
Molybdenite Showing	5
CERTIFICATION - R. J. BECKETT	6
CERTIFICATION - J. F. IRWIN	7
APPENDIX I - DESCRIPTION OF SAMPLES	8
APPENDIX II - ASSAY RETURNS	9

ILLUSTRATIONS

FIGURE

1	DEE AND PROHIBITION CLAIMS GEOLOGY	In Pocket
2 #1	NOR CLAIMS GEOLOGY	In Pocket
3 #2	TEXAS, BIRK CLAIMS	In Pocket
4 #3	TRENCHES (BRALORNE SHOWING)	4

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT

NO. 2430 MAP

REPORT ON GEOLOGY OF NORSE EXPLORATIONS LTD.
 BIRKENHEAD AREA HOLDINGS
NOR 1 TO 47, DEE 1 TO 24, BIRK 1 TO 10 CLAIMS

LOCATION

The Norse Explorations Ltd. claim holdings along the Birkenhead River in the Pemberton area, Lillooet Mining District, British Columbia, are comprised of the following claims:

<u>CLAIM NAME</u>	<u>TAG NUMBER</u>
NOR 1 to 16	943921 to 943936 incl.
NOR 17 and 18	943941 and 943942
NOR 19 and 20	943939 and 943940
NOR 21 and 22	943937 and 943938
NOR 23 and 24	943943 and 943944
NOR 25 to 40	905319 to 905334 incl.
NOR 41 and 42	905337 and 905338
NOR 43 and 44	905335 and 905336
NOR 45 to 47	943901 to 943903 incl.
DEE 1 to 20	649741 to 649760 incl.
DEE 21 to 24	601749 to 601752 incl.
BIRK 1 to 10	943904 to 943913 incl.

GENERAL GEOLOGY

The Norse Explorations Ltd. Birkenhead area property is near the western margin of the Coast Range Batholith. The batholith is predominantly granodiorite to granite in composition and is of Upper Jurassic age.

A pendant of Triassic rocks extends roughly north from the Pacific Great Eastern Railroad tracks to the west of Pemberton to at least as far north as Tenquille Lakes fourteen miles distant. These are composed of tuffs, argillites, limestones, agglomerates and their medium grade metamorphic equivalents, together with skarn in certain localities close to the granodiorite contact.

Maps of the DEE, NOR and BIRK claims geology are included in the pocket appendix (Figures 1, 2 and 3, respectively.)

NOR CLAIMS

Tuff breccias are the predominant rock type in the eastern half of the NOR group. These are blue gray, medium grained, well foliated

- 2 -

weakly chloritic and contain angular tuff fragments up to one-half inch diameter.

Further west, a thick sequence of pyritic quartzites and sub-greywackes, with lesser bands of limy siltstones and limestones up to 100 feet thick, outcrops in Tenas Creek and on the upper sections of the ridge immediately to the south.

Strikes are generally northerly and dips are steep. There is, however, substantial variation in both. The sediment-granite contact, as determined from air photographs, probably passes along the western margin of the NOR group in a northerly direction.

A lens of fine grained, light gray, feldspar porphyry outcrops on the ridge south of Tenas Creek and in the Tenas Creek at the sharp bend 3,600 feet west of the confluence with the Birkenhead River.

Two possible fault zones were observed in Tenas Creek. Both were associated with substantial gossaning. No displacement was observed on either fault.

ECONOMIC GEOLOGY

The extensive gossaning in Tenas Creek canyon area is probably due solely to finely disseminated pyrite in the quartzites.

The gossaning in the northwest striking fault zone above the sharp bend in Tenas Creek could possibly be on the strike extension of the strong gossan zone in the adit to the northwest. Deep weathering of the gossan precluded identification of causative mineralization.

DEE GROUP AND PROHIBITION GROUP

GENERAL GEOLOGY

A northerly striking vertical contact of the granitic batholith with the volcanics and sediments passes through the centre of the group.

The batholithic material is probably granodiorite in composition, is white and massive with very occasional irregular aplite dikes. It underlies the extensive tract of country to the west of Pancake Lake.

The sediments are predominantly tuff, breccias, volcanic agglomerates with limestone bands, and minor andesite to the south; and quartzites, epidote rock, with lenses of limestone, to the north of Pancake Lake.

Irregular feldspar porphyry dikes and sills intrude both the tuffs and the epidote rock.

- 3 -

The epidote rock is dark brown to green, heavy, generally fine grained, garnetiferous in part. To the northeast of Pancake Lake the lenses are apparently conformable with enclosed limestone bands. However, one mile south of Pancake Lake, dikes of epidote rock up to eight feet wide cut the surrounding tuffs and limestone bands at a low angle.

Regional strike is northerly with steep dips.

ECONOMIC GEOLOGY

Pyrite, pyrrhotite and lesser chalcopyrite mineralization occurs in three widely separated lenses in the tuffs and epidote rock in a trend roughly parallel to the granodiorite contact.

Two such lenses to the south of Pancake Lake were composed predominantly of pyrrhotite and pyrite with minor chalcopyrite. These returned low assays in copper.

In the cliffs immediately to the north of Pancake Lake, a 5.8 foot wide lens of pyrrhotite with lesser chalcopyrite assayed in a face chip Au - Tr., Ag - 0.10 oz/ton, Cu - 2.50%, Pb - 0.36%, and Zn - Tr. It was not possible to estimate length owing to overburden to the south and cliffs to the north. One hundred feet to the east of the above, finely disseminated chalcopyrite occurs in dark green epidote rock over an area of fifteen feet by five feet on a steep cliff surface.

Two occurrences of sparse, disseminated chalcopyrite were noted approximately 2,000 feet east of Pancake Lake.

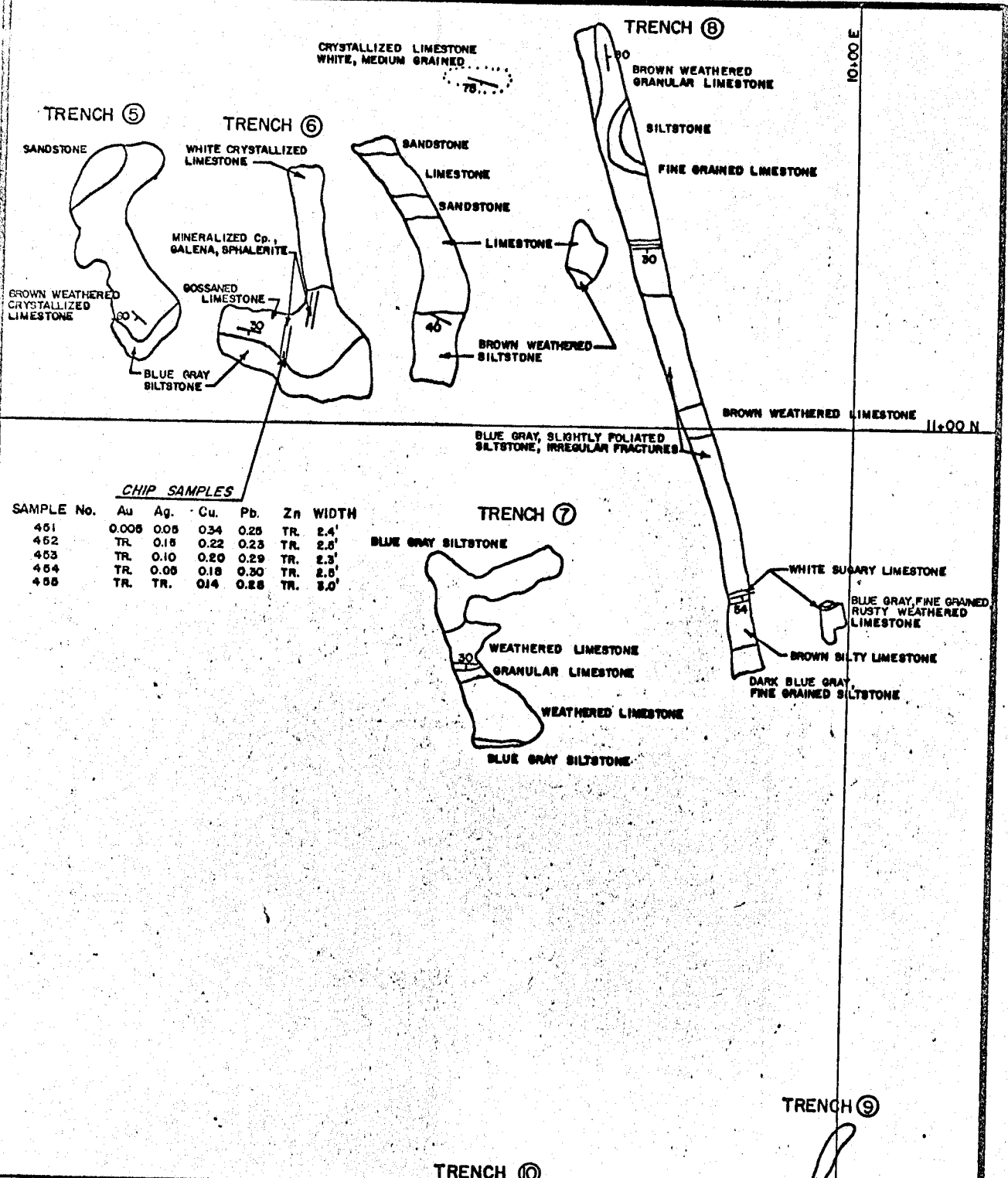
BIRK CLAIMS

GEOLOGY

The BIRK claims (1 to 10) are underlain by a thick sequence of diopsidic greywackes and lesser quartzites, calcareous in part, with three bands of metamorphosed limestone and marble. The lower band is greater than eighty feet thick, the middle band is approximately thirty feet thick, the upper band is approximately four feet thick.

These sedimentary rocks are intruded by a white, fine grained granite, the contact of which strikes in a general easterly direction across the southern portion of the BIRK claims. No direct evidence of the development of skarn was seen along this contact.

Reference is made to Figure 3 (pocket appendix).



CHIP SAMPLES

SAMPLE No.	Au	Ag	Cu	Pb	Zn	WIDTH
451	0.005	0.05	0.34	0.25	TR.	2.4'
452	TR.	0.15	0.22	0.23	TR.	2.5'
453	TR.	0.10	0.20	0.29	TR.	2.3'
454	TR.	0.05	0.18	0.30	TR.	2.8'
455	TR.	TR.	0.14	0.25	TR.	3.0'

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 2430 MAP #3

NORSE EXPLORATION LTD. (N.P.L.)
 TRENCHES (BRALORNE SHOWING)
 BIRK CLAIMS
 BIRKENHEAD RIVER, PEMBERTON B.C.

Scale 0 10 20 Feet

J. FOSTER IRWIN ENGINEERING & MANAGEMENT SERVICES LTD
 EDMONTON, ALBERTA
 JULY, 1969

[Handwritten Signature]
 Fig 4

FIG. 2

ECONOMIC GEOLOGY

Bralorne Showing

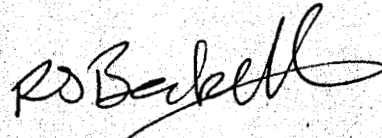
Fine grained galena, sphalerite and lesser chalcopyrite occur in the upper limestone in a weakly folded and faulted zone.

A small program of chip sampling has not been completed to date.

Figure 4, Page 4, indicates the relative locations of trenches and samples.

Molybdenite Showing

Traces of molybdenite were found in garnet-diopside rock within three feet of the contact with a calcareous silicate rock. This showing is not of economic importance as seen at present, but should be opened up by trenching to gain a better estimate of its grade and extent.



R. J. Beckett, M.A., P.Geol.

RJB/mo

- 6 -

I, ROBERT J. BECKETT, OF 10720 - 97 AVENUE, EDMONTON, ALBERTA, CERTIFY AND DECLARE THAT I AM A GRADUATE OF THE UNIVERSITY OF OXFORD WITH A MASTER OF ARTS DEGREE IN GEOLOGY, AND AM REGISTERED WITH THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF ALBERTA AS A PROFESSIONAL GEOLOGIST.

I HAVE NO INTEREST DIRECTLY OR INDIRECTLY IN THE NOR CLAIMS, NOR IN THE DEE CLAIMS, NOR IN THE BIRK CLAIMS, NOR DO I EXPECT TO OBTAIN ANY INTEREST IN THEM OR IN THE ASSETS OR SECURITIES OF NORSE EXPLORATIONS LTD.

I, ROBERT J. BECKETT, DID SPEND ELEVEN DAYS FROM JUNE 25 TO JULY 6, 1969 ON NORSE EXPLORATIONS LTD. PROPERTY, NOR, DEE, AND BIRK CLAIMS, IN GEOLOGICAL EXAMINATION AND DIRECTING GEOLOGICAL MAPPING ON THOSE PROPERTIES.

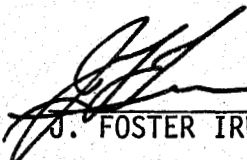

ROBERT J. BECKETT, M.A., P.Geol.

- 7 -

I, J. FOSTER IRWIN, OF 1902 - 10015 - 103 AVENUE, EDMONTON, ALBERTA, CERTIFY AND DECLARE THAT I GRADUATED WITH A DEGREE IN ENGINEERING FROM THE UNIVERSITY OF ALBERTA IN 1949 AND AM A REGISTERED MEMBER OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF ALBERTA WITH NON-RESIDENT LICENCE TO PRACTICE IN THE PROVINCE OF BRITISH COLUMBIA AND THE PROVINCE OF SASKATCHEWAN.

I AM THE BENEFICIAL OWNER OF FIFTY THOUSAND (50,000) SHARES IN NORSE EXPLORATIONS LTD. (N.P.L.) PURCHASED AND PAID FOR IN CASH PRIOR TO APPLICATION FOR PUBLIC ISSUE.

THE REPORT ON THE NOR 1 TO 47 CLAIMS, DEE 1 TO 24 CLAIMS, AND BIRK 1 TO 10 CLAIMS, IS BASED ON MY PERSONAL EXAMINATION OF THE PROPERTY AND RESULTS OBTAINED BY MR. R. J. BECKETT WHOSE CERTIFICATION IS ATTACHED, DIRECTLY FOR ME AS A MEMBER OF J. FOSTER IRWIN ENGINEERING AND MANAGEMENT SERVICES LTD.


J. FOSTER IRWIN, B.Sc., P.Eng.



Expiry Date: November 17, 1970

APPENDIX I

Description of Samples, assays for which are included on Sheet 1,
File No. 318621/632 of J. R. Williams & Son Ltd. Assay Results
(Appendix II):

<u>SAMPLE NO.</u>	<u>PROPERTY</u>	<u>DESCRIPTION</u>
451	Birk	Width 2.4')
452	Birk	Width 2.5')
453	Birk	Width 2.3')
454	Birk	Width 2.5')
455	Birk	Width 3.0')
456	Dee	Random Chip - area 15' x 5'. Cliff north of Pancake Lake
457	Dee	Chip - 5.8' across pyrrhotite chalcopyrite vein 100' west of Sample No. 456 (above)
458	Dee	Chip - 3' across pyrite vein south of Pancake Lake
459	Dee	Chip - 4.5' across pyrrhotite vein approximately 4,000' south-south-east of Sample No. 458 (above)
460	Margery	Not Applicable - off property
461	Margery	Not Applicable - off property
462	Margery	Not Applicable - off property

SHEET NO. 1
FILE NO. 318621/632

J. R. WILLIAMS & SON LTD.

PROVINCIAL ASSAYERS

580 NELSON STREET

MUTUAL 5-5821

JUL 22 1969

VANCOUVER 2, B.C. July 16th 19 69

RESULTS of Assays made on samples of ore submitted by: MESSRS. NORSE EXPLORATIONS LTD.

MARK	Gold ozs/ton	Silver ozs/ton	Copper %	Lead %	Zinc %	Platinum ozs/ton
451	0.005	0.05	0.34	0.25	Trace	
452	Trace	0.15	0.22	0.23	Trace	
453	Trace	0.10	0.20	0.29	Trace	
454	Trace	0.05	0.18	0.30	Trace	
455	Trace	Trace	0.14	0.28	Trace	
456	Trace	Trace	2.92 ¹⁵	0.23	Trace	
457	Trace	0.10	2.50	0.36	Trace	
458	Trace	0.15	0.20	0.37	Trace	
459	Trace	0.35	0.30	1.62	Trace	
460	0.005	0.70	0.46			Trace
461	Trace	0.15	0.52			Trace
462	0.005	0.20	0.50			Trace

Assays made by:

J. Moore