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# OPEN FILE

REPORT ON DIAMOND DRILL PROGRAM - 1971  
BOB CLAIM GROUP  
SIMILKAMEEN MINING DIVISION  
PRINCETON, B.C.

KHE #2

Latitude 49° 25'      Longitude 120° 30'

## INTRODUCTION

During the period November 14-16, 1971, a diamond drill hole was put down on Knob Hill Explorations Limited Bob claim group near Princeton, B.C. The drilling was conducted by D. W. Coates Enterprises Ltd. of Vancouver, B.C. utilizing B.Q. wireline equipment. On-site supervision of the program was provided by Mr. R. C. Phillips, while head office supervision was afforded by the writer.

Prior to the drilling a grid survey was conducted in order to establish the location of the hole with reference to a grid utilized during 1967 and 1968 surveys over the area.

Also included in this report is the summary drill hole log and a profile of the drill hole drawn by the writer at a scale of 1" = 20'.

## LOCATION AND ACCESSIBILITY

The Bob claim group is located approximately three and one-half miles south-southeast of Princeton, B.C. (See Fig. 1 - Claim Group Location Map).

Access to the claim group is via a hard surface road which runs between Princeton and Copper Mountain; and by a system of woods roads which branch off from this main artery.

## TOPOGRAPHY AND VEGETATION

The topography in and around the claim group is typical plateau relief for this portion of the interior of British Columbia. Gently rounded hills dissected by U-shaped stream valleys are prominent.

Vegetation consists essentially of short grasses and good stands of yellow pine, fir and spruce.

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RESULTS OF DRILL HOLE K.H.E.-2

Hole K.H.E.-2 is located in the Bob 8 claim of the Bob claim group. This claim group is located about four miles south-southeast of the town of Princeton, B.C.

In 1968 the A.G.N. Syndicate put down a hole at 0+00N; 26+00E (Bob 8 claim) to test an area of anomalous I.P. response. A vertical hole of proposed depth of 500 feet was attempted but was stopped at 266 feet due to caving and poor ground conditions. Results of the drilling revealed interbedded Tertiary sediments containing fine carbonaceous partings. This carbonaceous material was believed to be responsible for the anomalous I.P. condition, although it was felt that the hole had not gone deep enough to prove this conclusively.

In November 1971 a vertical drill hole (K.H.E.-2) was put down 100 feet west of the 1968 hole at co-ordinates 0+00N; 25+00E. Flat lying Tertiary siltstones, sandstones and clays were encountered over the 490 foot length of the hole. A 50 foot section of dark brown to black carbonitized clay was encountered between 413.0 feet and 463.0 feet. This material, in combination with other fine carbon partings noted throughout the hole, would be sufficient to account for the anomalous I.P. conditions at this location.

CONCLUSIONS AND RECOMMENDATIONS

Results of Hole K.H.E.-2 failed to encounter any sulphide mineralization, nor to penetrate the Tertiary sedimentary sequence. The fine carbon partings noted over the length of the hole, in combination with a pronounced fifty foot band of carbonitized clay between 413.0 feet to 463.0 feet would account for the anomalous chargeabilities revealed in an induced polarization survey at this location.

No further exploration is planned for the Bob claim group.

L. V. MacCormack, B.Sc.

Toronto, Ontario,  
December 1, 1971

*WRONG - last 30' is andesite - Tertiary or Nicola?*

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A. G. N. SYNDICATE

BOB. Group

PROJECT 10-01

## SUMMARY LOG OF DRILL HOLE #2

LOCATION: LINE ON: STA. 26E ELEV.: 3100' DIRECTION: — DIP: VERTICAL DRILLED: APRIL 3-11, 1968 LENGTH: 266'

FROM	TO	DESCRIPTION	SAMPLE FROM	TO	LENGTH				
0'	84'6"	OVERBURDEN							
84'6"	91'0"	GREENISH TO LIGHT GREY CLAY.							
91'0"	119'4"	INTERBEDDED AND VARICOLORED CLAYEY SILTSTONES. MINOR DISSEMINATED PYRITE. (4.5%)							
119'4"	120'4"	LIGHT GREY CLAYEY SANDSTONE.							
120'4"	125'0"	INTERBEDDED AND VARICOLORED SILTSTONES							
125'0"	137'6"	GREY CLAY.							
137'6"	184'0"	LIGHT GREY QUARTZOSE SANDSTONE WITH MINOR SECTIONS OF CLAY AND CARBON.							
184'0"	187'0"	VARICOLORED SILTSTONES.							
187'0"	189'8"	LIGHT GREY QUARTZOSE SANDSTONE.							

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FROM	TO	DESCRIPTION	SAMPLE FROM	TO	LENGTH				
189'0"	215'0"	INTERBEDDED AND VARICOLORED SILTSTONES AND QUARTZOSE SANDSTONE.							
215'0"	217'0"	LIGHT GREY QUARTZOSE SANDSTONE.							
217'0"	223'0"	INTERBEDDED AND VARICOLORED SILTSTONES AND QUARTZOSE SANDSTONE.							
223'0"	223'6"	LIGHT GREY QUARTZOSE SANDSTONE.							
223'6"	224'6"	INTERBEDDED AND VARICOLORED SILTSTONES AND QUARTZOSE SANDSTONE.							
224'0"	228'0"	GREY SILTSTONE.							
228'0"	229'0"	LIGHT GREY QUARTZOSE SANDSTONE.							
229'0"	241'0"	INTERBEDDED AND VARICOLORED SILTSTONES AND QUARTZOSE SANDSTONE.							

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FROM	TO	DESCRIPTION	SAMPLE FROM	TO	LENGTH				
241'0"	242'0"	DARK BROWN SILTSTONE.							
242'0"	246'0"	MEDIUM GREY SANDSTONE. HIGH CARBON CONTENT. (35% - 40%). MINOR PYRITE (4.5%)							
246'0"	250'0"	INTERBEDDED AND VARICOLORED SILTSTONES AND CARBONACEOUS SANDSTONE.							
250'0"	254'0"	BLACK, CARBONACEOUS SILTSTONE.							
254'0"	264'0"	MEDIUM GREY SANDSTONE. HIGH CARBON CONTENT. (35% - 40%). MINOR FINE PYRITE (4.5%)							
264'0"	264'8"	DARK BROWN SILTSTONE.							
264'8"	266'0"	INTERBEDDED AND VARI- COLORED SILTSTONES AND HIGHLY CARBONACEOUS SANDSTONE. MINOR PYRITE (4.5%)							
266	EOA								

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(b) Princeton Group

Tertiary volcanic and sedimentary rocks underlie about one half of the Nob Claim Group. Exposed Tertiary rocks generally consist of red-brown weathered hornblende andesite. Fresh varieties vary from grey to grey-brown. Over 400' of Princeton Group sediments have been encountered in a diamond drill hole on Nob 8 and coal was reported to have been encountered in a well located east of the Anderson's ranch house.

The presence of a thick sequence of Tertiary sediments south of Knob Hill suggests either a down-faulted block or an initial Tertiary depression. Faulting is favoured because of an apparent offset of Nicola strata southeast of Knob Hill.

EXPLORATION POTENTIAL

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The Nob Claims have been tested by I.P., magnetometer, geochemical and geological surveys, and several diamond drill holes have tested areas of better showings and/or I.P. response. Results to date have not been encouraging. Weak copper mineralization present in showings has not been found to improve with depth.

The strongest I.P. (31.5 ms) response is from the Knob Hill Crown Grant and sufficient pyrite (1-3%) occurs to account for the response. The I.P. response (high 25.0 ms) over a covered area southwest of Knob Hill is difficult to explain. Drill Hole KHE-2, drilled on the trend of this anomaly, encountered over 400' of Tertiary sediments that do not contain sulfide mineralization. Carbonaceous horizons were encountered within the Tertiary sediments and anomalous chargeabilities have been attributed to these carbon-rich horizons. Mapping has indicated that a fault should exist along the trend of this I.P. anomaly and alteration associated with the fault zone is another possible cause of the I.P. response.

*Report on the Exploration of the NOB Group*

*P.A. Christopher & T.N. Macaskey*

*Dec 10 / 73*

*Newmont Mining Corp. of Can.*

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7.0N - 257E

800 Casual Group  
Copper Hill, B.C.

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SUMMARY DRILL RECORD

HOLE No. K.H.B. 22

LOCATION: Copper Hill, B.C.  
DATE: Nov. 12-16, 1971

DRILLED BY: D.W. Curtis Enterprises Ltd. LOGGED BY: R.C. PHILLIPS

DIP: -90°  
ASSAYED BY:

FOOTAGE		DESCRIPTION	SAMPLE	FOOTAGE		WIDTH	ASSAY VALUES		
FROM	TO			FROM	TO				
0	52.0	Overburden, CASING.							
52.0	107.0	VARIED CLAY, GRAY IN COLOR.							
107.0	127.0	SILTSTONE, GRAY IN COLOR.							
127.0	147.0	QUARTZOSE SANDSTONE.							
147.0	155.0	VARIED CLAY, GRAY IN COLOR.							
155.0	245.0	INTERBANDS VARIED CLAY AND SANDSTONE.							
245.0	252.0	SILTSTONE.							
252.0	302.0	INTERBANDS VARIED CLAY AND SANDSTONE.							
		302.0 - 370.0 ... LOST 11.0 FEET OF CORE. MUD SEAM.							
		352.0 - 355.0 ... LOST 3.0 FEET OF CORE. MUD SEAM.							
355.0	375.0	SILTSTONE.							
375.0	413.0	INTERBANDS VARIED CLAY AND SANDSTONE.							
413.0	463.0	CLAY, CARBONITIZED. DARK BROWN TO BLACK IN COLOR.							
463.0	490.0	QUARTZITE, IMPURE, DARK GRAY. FINE GRAINED. NORTHERN.							
		GROUND COVERING. LOST CORE FROM 476.0 - 490.0.							

} Definitely not quartzite  
It is andesite. Tertiary or Miocene?

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# DRILL HOLE RECORD

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vertical hole, core loc.  $\pm 10^\circ$  (T.N.)

GEORGE PAULUS

DIP TEST			LEVEL	HORIZONTAL COMPONENT ?	HOLE NO. KHE-2
FOOTAGE	ANGLE		LOCATION ?	VERTICAL COMPONENT ?	SHEET NO. 1 of 2
	RECORDING	CORRECTED			
			ELEVATION	BEARING ?	LOGGED BY G.E.P.
			LATITUDE	LENGTH 490	PURPOSE IP. anomaly
			DEPARTURE	DATE FINISHED Nov. 14-16 / 71	TOT. RECOVERY

GRAPHIC LOG	FOOTAGE		EST. SULPHIDE	ROCK TYPE	DESCRIPTION	ASSAYS										RECOVERY		
	FROM	TO				SAMPLE NO.	FROM	TO									RUN	SHORT
	0	23		Shaly?	Fine to bedded clay with ...													
	23	147		"	... shale ...													
	147	195		"	Fine to bedded clay & siltstone ...													
	195	287		"	195' to 211' fine to bedded light grey clay ...													
	287	309-6		"	Interbedded fine to coarse ...													
	309-6	320		"	at 309 1/4' to 320' core lost - mud ...													

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# DRILL HOLE RECORD

DIP TEST			LEVEL	HORIZONTAL COMPONENT	HOLE No. KHE - 20
FOOTAGE	ANGLE		LOCATION	VERTICAL COMPONENT	SHEET No. 2 of 2
	RECORDING	CORRECTED			
			ELEVATION	BEARING	LOGGED BY CEP
			LATITUDE	LENGTH	PURPOSE
			DEPARTURE	DATE FINISHED	TOT. RECOVERY

GRAPHIC LOG	FOOTAGE		EST. SULPHIDE	ROCK TYPE	DESCRIPTION	ASSAYS								RECOVERY			
	FROM	TO				SAMPLE NO.	FROM	TO							RUN	SHORT	
	330	334		Althm...	Fine bedded light brown clay											355	
	334	342			Black clay with 1/8" coal seam											378	0
	342	350		Sediments	Silted - white											386	1
	350	352			Fine bedded clay											396	0
	352	365			Coal seam											400	0
	365	378			Bedded clay											407	1
	378	385			Silted & bedded clay											422	5
	385	400			Silted - white clay											437	0
	400	404			Coal seam											447	0
	404	413			breccia frags in brown matrix											457	0
	413	417			109' coal 450' coal											463	0
	417	420			interbedded breccia surface silted clay sand											464	0
	420	425														470	3
	425	490		andesite	dense med or grey comp of clay silted matrix in place - shows stringers of <del>silica</del> <del>quartz</del> <del>feldspar</del> feldspar to be silt Small pinkish orthoclase <del>with</del> orthoclase alone <del>with</del> orthoclase appears to be <del>these</del> <del>these</del> <del>these</del> Tertiary											496	1 1/2
					(I am unsure whether this andesite is Tertiary or Nicola. TNM)											498	1

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NEWMONT MINING CORP.  
 NOB GROUP.  
 SCALE: 1" = 400'  
 DEC. 10/73 P.A. CHRISTOPHER.

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