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GEOLOGICAL STUDY
on the
DRIFT CLAIM
Record # 10668
OMINECA MINING DIVISION
BRITISH COLUMBIA
NTS 94-D-2/W
LAT: 56° 06' N; LONG: 126° 53' W.

SUB-RECORDER
RECEIVED
JUN 29 1992
M.K. # _____ \$ _____
VANCOUVER B.C.

Operator
Phelps Dodge Corp.

Author
G. Ryznar, PEng.
June 26/92

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,408

GEOLOGICAL STUDY ON THE DRIFT CLAIM

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Plan - Drift Claim - Location 1991 Rock Samples and Generalized Geology Scale 1:10,000	Fig 92-1

Drift Claim (cont'd)

Access

At the present time the property is accessible via helicopter from Smithers, B.C. or alternative helicopter bases in the general area. However, an airstrip is located near the settlement of Bear Lake, which is within 10 kms. of the property and another airstrip is located at Driftwood, 40 kms. to the southeast. These are convenient drop-off points for bringing in supplies via fixed wing aircraft. As well, an operational railroad, the Dease Lake extension of B.C. Rail runs in a northwesterly direction within 5kms. of the property. This rail line is presently being utilized by the logging industry as a haulage route to Fort St. James with connections to Prince Rupert and Prince George.

Geology

The "Drift" claim is underlain by small multiphase intrusive complex ranging in composition from monzodiorite to quartz feldspar porphyry of granitic composition. The intrusive complex which ranges in age from Cretaceous to Tertiary, intrudes rocks which have been mapped as belonging to the Hazelton (Jurassic) group of rocks. (Tipper & Richards 1976) The intrusion is structurally and compositionally complex, the older monzonite and quartz monzonite occurring on the periphery of the complex, and the younger more acidic rocks, quartz feldspar porphyry, occurring more towards the center of the complex.

Copper and molybdenum mineralization, usually associated with pyrite commonly occurs within quartz veins, veinlets and along fractures in the monzodioritic rocks and quartz feldspar porphyry dykes often carry disseminated copper and molybdenum mineralization. Pyrite and chalcopyrite are also found in the hornfelsed volcanics east of the intrusive. In general, copper and molybdenum mineralization is widespread over an area of some 1400 meter of strike length and 400 meters in width. Potassic alteration consisting of secondary K-feldspar and biotite is a common feature within this zone of mineralization.

Geology (cont'd)

The following is a list of samples collected from the Drift claim during August and September of 1991 showing ICP analysis for Cu, Mo, and Ag and gold values from acid leach/AA analysis on 10 gram samples. Nine of the samples collected were intrusive rocks, and two of the samples were from the hornfelsed volcanic zone.

<u>Sample No.</u>	<u>Description</u>	<u>ppm Ag</u>	<u>ppm Cu</u>	<u>ppm Mo</u>	<u>ppb Au</u>
32868	Volcanic, porphyritic	.4	29	6	6
32869	Vein stockwork, monzonite host	121.2	1956	3104	117
32870	Vein stockwork, monzonite host	40.3	9522	293	124
32871	Monzonite	44.9	678	23	370
32872	Volcanic hornfels	10.3	146	35	11
32151	Quartz Feldspar Porphyry	1.3	1697	55	74
32152	Quartz Feldspar Porphyry	.5	623	69	7
32153	Aplite	.3	156	34	9
32154	Quartz Feldspar Porphyry	.1	228	7	5
32208	Quartz Feldspar Porphyry	3.5	2242	3	1080
32209	Quartz Feldspar Porphyry	.6	1978	91	17


The above listed samples were collected by geologist Terry Walker of Noranda Exploration Company Ltd. during August of 1991, and geologist Geoffrey Goodall for Fox Geological on behalf of Phelps Dodge Corp. during September, 1991.

Conclusions and Recommendations

Although the samples analyzed are few in number, the results indicate that significant gold values occur in 55% of all the intrusive samples collected. These values range from 74 ppb Au to 1080 ppb Au. As well, significant silver values occur in 60% of the samples which carry high gold values. A number of these samples indicate relatively high silver values; for example, sample number 32869 assayed 121.2 ppm Ag., and sample number 32871 showed 44.9 ppm Ag.

Conclusion and Recommendations (cont'd)

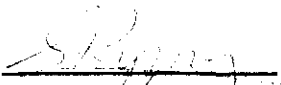
From these preliminary observations it may be concluded that the intrusive host rocks within the zone of copper, molybdenum mineralization may well carry significant credits in silver and gold. Since any additional values from silver and gold content would have a significant impact on the economics of this property, further studies are recommended to confirm these preliminary findings. In this respect, a rock sampling program, carried out on a more detailed grid such as one with a 50 meter line spacing with 25 meter stations, is recommended over the zone of copper, molybdenum mineralization. Accurate sample description would be required as well as relationship of sample location to any structural features of significance. Further exploration would be dependent on results.


G. Ryznar, PEng.
June 26/92

STATEMENT OF EXPENDITURES

Drift Mineral Claim
Omenica M.D., B.C.
August, September/91

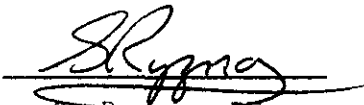
Transportation - Helicopter Charter		
Sep't 12/91 - Highland Helicopters Ltd.		\$2,530.23
Professional Services		
Sample collection		
Geoffrey Goodall - Sep't 12/91		
1 day @ \$250/day	\$250	
Terry Walker - Aug/91		
1 day @ \$250	\$250	
Report writing		
G. Ryznar, 2 days @ \$250	<u>\$500</u>	
	\$1,000	\$1,000.00
Analysis		
ICP plus wet geochem for Au		
11 samples @ \$9.50 ea.		<u>\$ 104.50</u>
	Total Expenditure	\$3,634.73


G. Ryznar, PEng.
June 23/92

AUTHOR'S QUALIFICATIONS

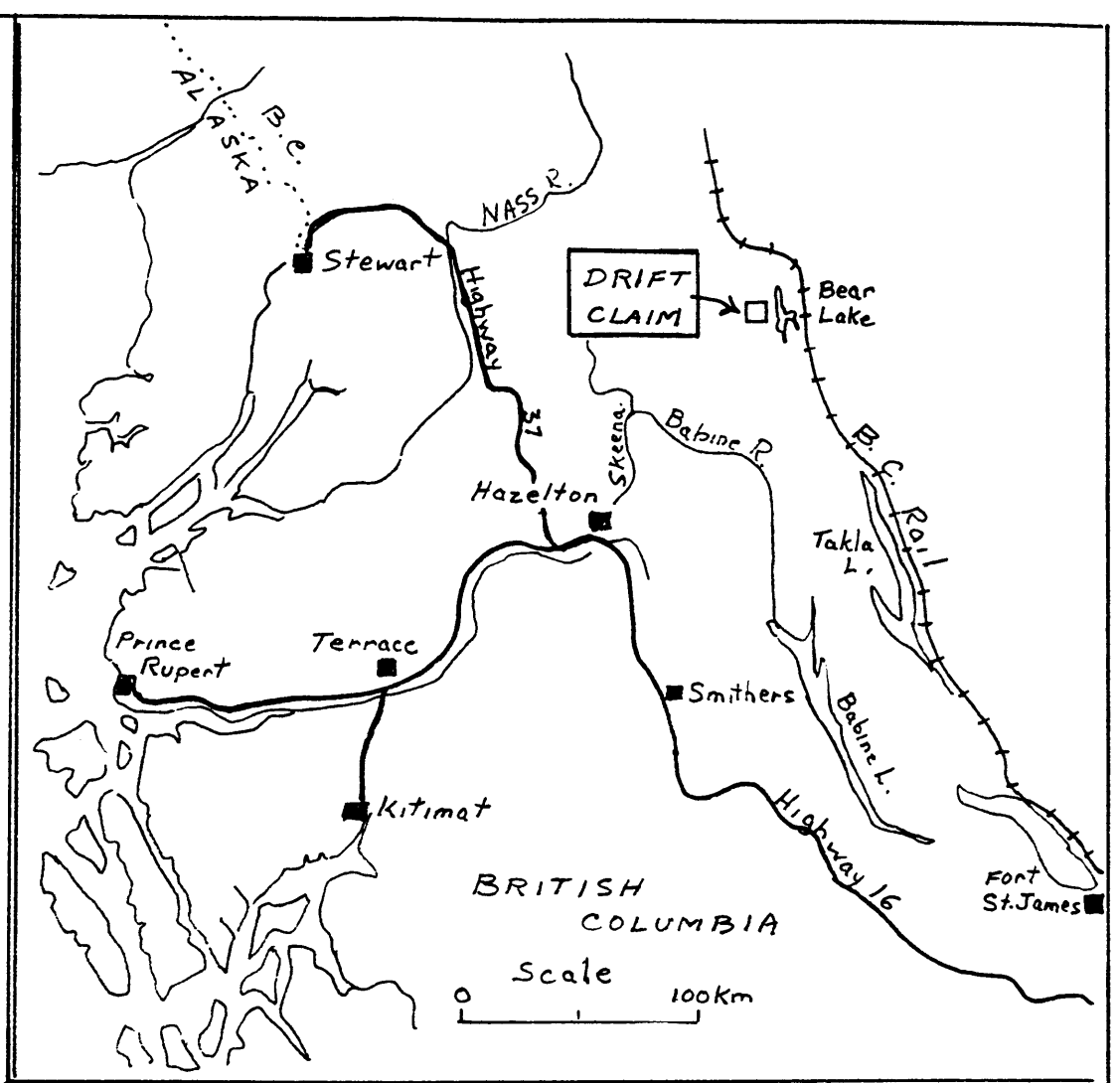
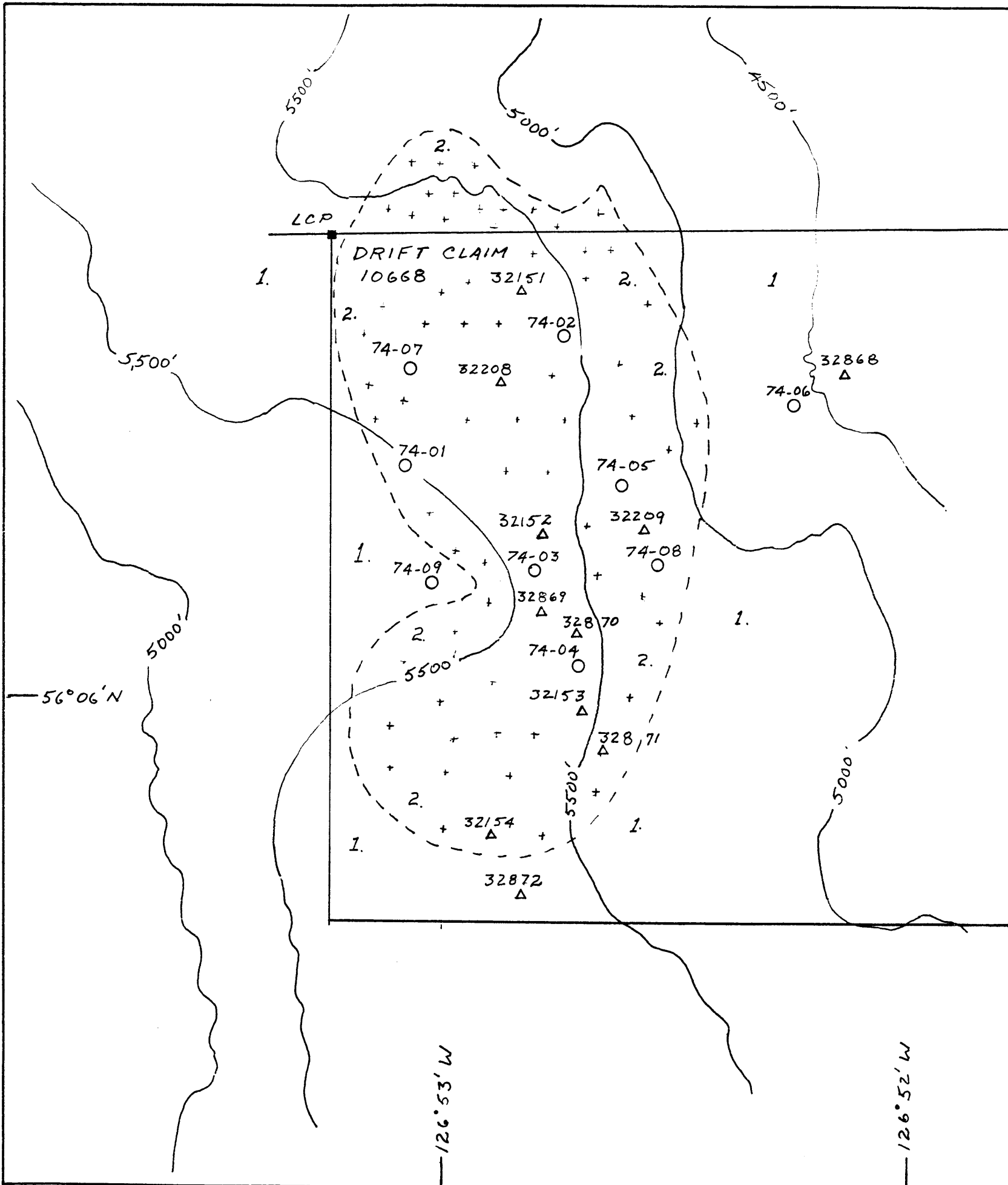
I, Gerald Ryznar, do hereby certify:

- 1) That I am a graduate of the University of Alberta, Edmonton, from which I obtained a BSc. and a MSc. in Geology in 1964 & 1965.
- 2) That I have practiced my profession as a mining and exploration geologist during the past twenty-seven years throughout most of the provinces and territories in Canada, as well as in the U.S.A., Australia and New Zealand.
- 3) That I am a member of the Association of Professional Engineers and Geoscientists of British Columbia.


G. Ryznar, PEng.

Dated in North Vancouver, British Columbia

June 24, 1992



LEGEND

- + 2. + INTRUSIVES - CRETACEOUS TO TERTIARY
- 1. VOLCANICS & VOLCANICLASTICS - HAZELTON GP. MID JURASSIC
- 74-08 1974 DRILL HOLE COLLAR
- △ 32152 1991 ROCK SAMPLE LOCATION
- INFERRED INTRUSIVE-VOLCANIC CONTACT

DRIFT CLAIM , BRITISH COLUMBIA NTS 94-D-2/W
 LOCATION 1991 ROCK SAMPLES AND
 GENERALIZED GEOLOGY
 SCALE 1:10,000
 0 100 200 300 400 m.
 FIG. 92-1.