

87-626

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FILE NO: 87-626-16444	

GEOLOGICAL ASSESSMENT REPORT

GOLDEN FIVE CLAIMS

Fort Steele Mining Division

N. T. S. Maps: 82G/12 ^E ~~W~~ and 13 ~~W~~

(Centred at approximately)

NORTHINGS: 5 511 600

EASTINGS: 607 100

ELEVATION: 5,100 ft. (1554 m)

LATITUDE: 115 ⁰ 31' 30" 48"

LONGITUDE: 49 ⁰ 25' 44" 42"

OPERATOR/

OWNED BY: WILLIAM LUKE

CONSULTANT: R. J. Morris,
Morris Geological Co. Ltd.

AUTHOR: R. J. Morris

DATE: August, 1987.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,444

FILMED

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SUMMARY AND CONCLUSIONS:

The Golden Five Claims are in the Wildhorse River drainage approximately 18 kilometers northeast of Fort Steele. The Claims are owned by William Luke of Cranbrook, B. C., and include King Salomon (5451), Queen of Sheba (5452), Big Bend Boy (5453) and Honey Comb (5454).

Previous work included three exploration tunnels totalling 64 m. The area has been mapped geologically by the G. S. C. and by the B. C. Geological Survey.

The claims are a portion of the east, overturned, limb of an anticline. The anticline is a drag fold on thrust faults to the east.

The old workings appeared to be following intersections of structural features. One tunnel was driven towards the intersection of quartz veining and the slope of the hillside while another tunnel may have followed the quartz vein.

It is recommended that detailed geological mapping and soil sampling be conducted on the Golden Five Claims.

INTRODUCTION:

LOCATION AND ACCESS: - The Golden Five mineral claims are located one kilometer north of the confluence of the Wild Horse River and its East Fork. The claims cover the west slope at elevations between 1300 and 1980 meters, (Figure 1).

The property is 18 km northeast of Fort Steele and is accessible via the Wild Horse River Road. Driveable logging roads enter the south corner of the property to within 180 m. below the old workings, (Figure 2).

CLAIM STATUS: - The Golden Five mineral claim is comprised of the reverted crown grants:

CLAIM:	LOT NO:	RECORD NO:	SURVEYED IN:
King Salomon	5451	777(9)	1902
Queen of Sheba	5452	778(9)	1902
Big Bend Boy	5453	779(9)	1902
Honey Comb	5454	780(9)	1902

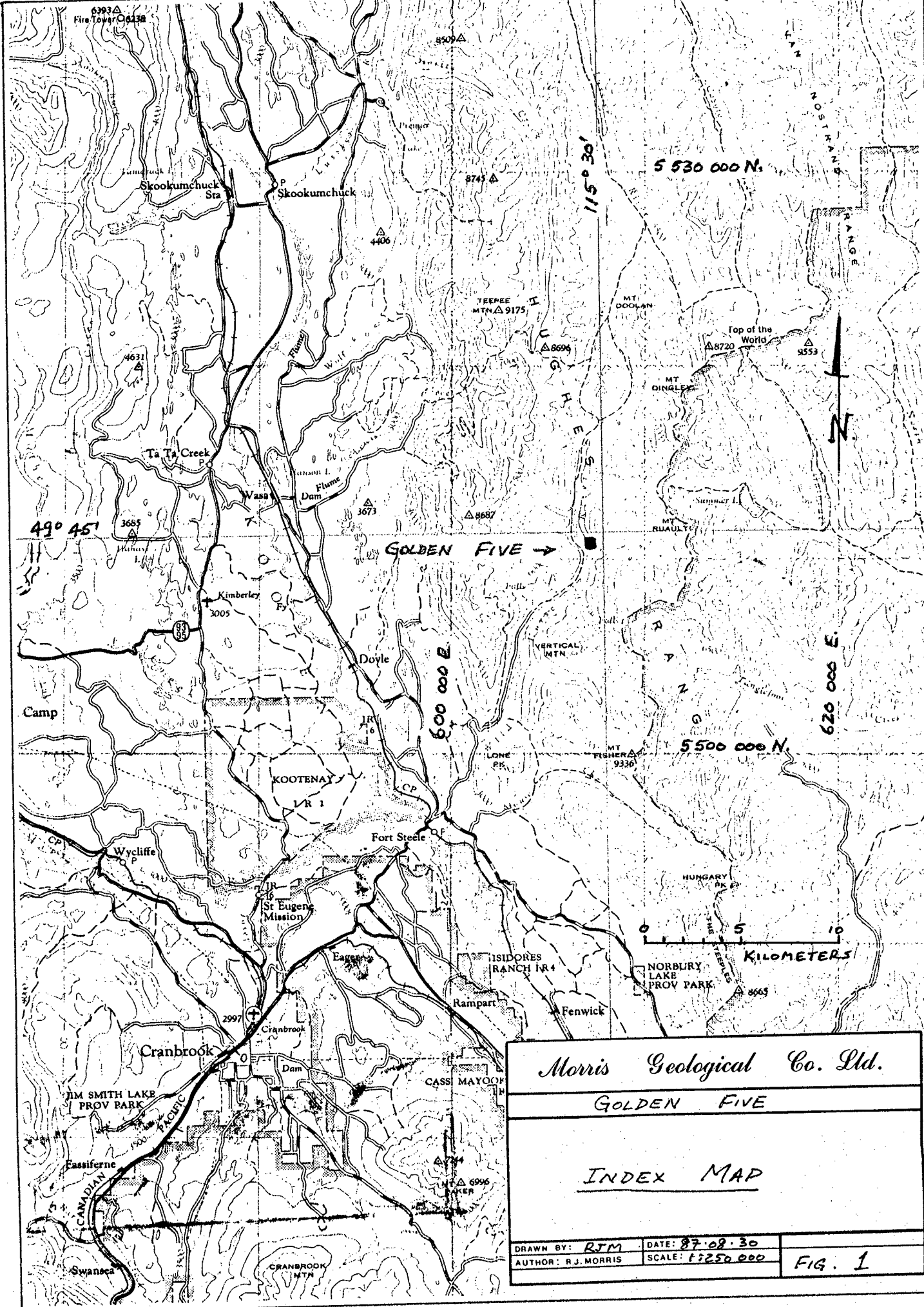
The claims are presently owned by Mr. William Luke of 821 Kootenay Street N., Cranbrook, B. C.

SUMMARY OF PREVIOUS WORK: - There is no previously documented geological work on the property. In the late 1800's and early 1900's considerable underground exploration was conducted with at least three adits driven totalling 64 m. A grab sample of dump material was taken by Mr. Luke and reported 7.72% Pb, 0.05% Cu, 0.018 oz./ton Au, and 2.46 oz./ton Ag.

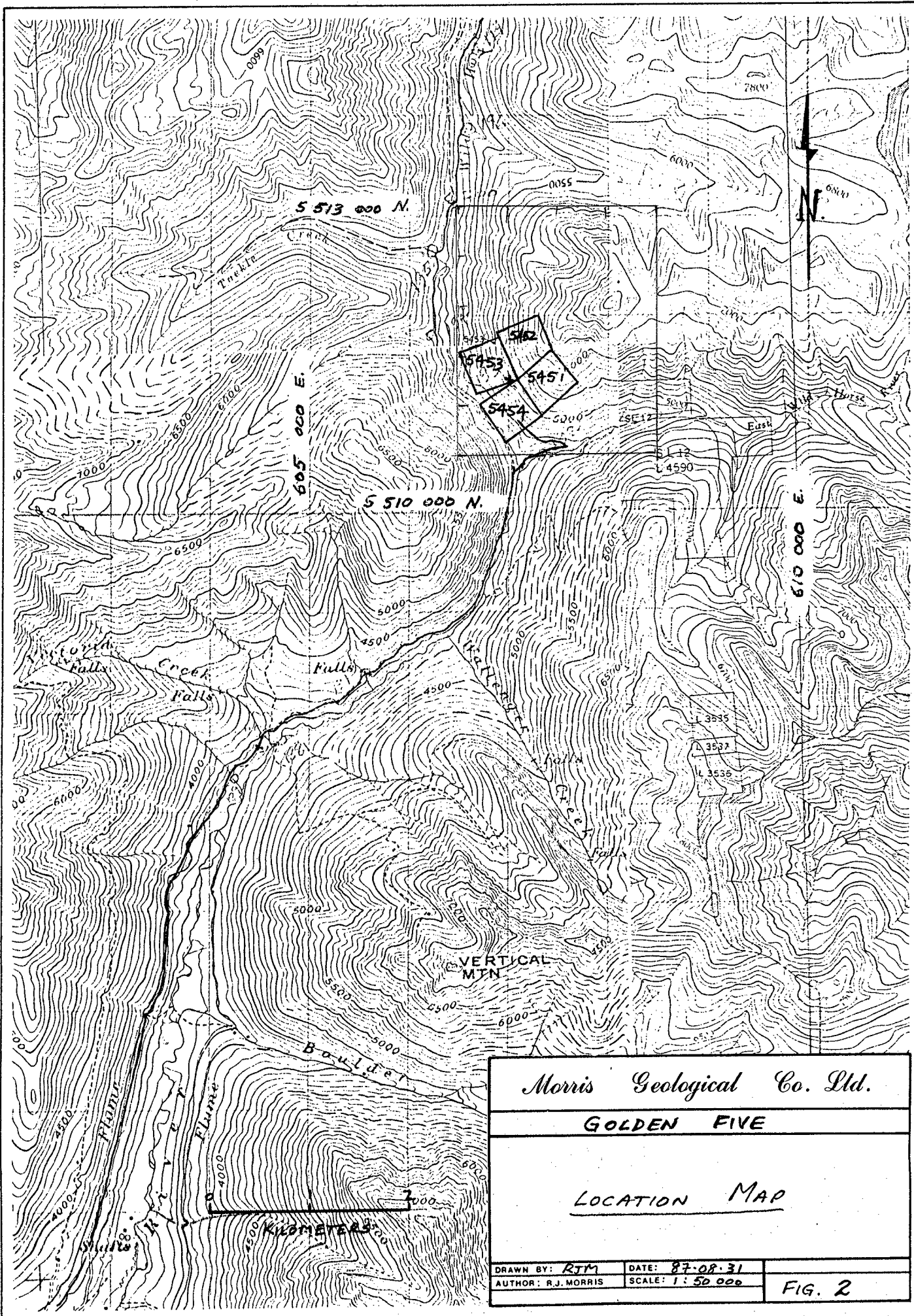
The area has been mapped by the Geological Survey of Canada, Leach (1960) at a scale of 1:125 000 and by the B. C. Geological Survey, Hoy (1978, 1979 and 1984) at scales of 1:25 000 and 1:50 000.

SUMMARY OF 1987 WORK: - Two days in May were spent examining the western portion of the claims. On May 23rd a traverse north, below the old workings was undertaken to prospect. May 28th was spent examining the old adits and prospecting to the north, south and below them.

Three adits were located, all close to a major gully in the centre of the claim group. Figure 4 is a sketch map showing the general location of the old workings.



<i>Morris Geological Co. Ltd.</i>		
GOLDEN FIVE		
INDEX MAP		
DRAWN BY: <i>RJM</i>	DATE: <i>87.02.30</i>	FIG. 1
AUTHOR: <i>R.J. MORRIS</i>	SCALE: <i>1:250 000</i>	



Morris Geological Co. Ltd.

GOLDEN FIVE

LOCATION MAP

DRAWN BY: RTM	DATE: 87-08-31
AUTHOR: R.J. MORRIS	SCALE: 1 : 50 000

FIG. 2

THIS REPORT

	A	B	C	D	E	F	G	H	
	Pend Oreille Area	Dewar Ck - Summit Ck Areas	Kootenay-King Area	Mt Fisher-Moyie Lake Areas	Sage Creek ²	Northern Whitefish Range	Marias Pass ³	Southern Lewis and Clark Range	
MIDDLE PROTEROZOIC	Libby Fm	W. Missouri Gr Mt. Nelson Fm						Garnet Range Fm	
	Striped Peak Fm	Dutch Creek Fm	Roosville Fm	Roosville Fm	Roosville Fm	Roosville Fm	unnamed	McNamea Fm	
	Wallace Fm	Siyeh Fm ¹	Phillips Fm	Phillips Fm	Phillips Fm	Phillips Fm	Phillips Fm	Red Plume Oz	Bonner Oz
			Gateway Fm	Gateway Fm	Gateway Fm	Gateway Fm	Kintla Fm	Mount Shields Fm	Mount Shields Fm
			Sheppard Fm	Sheppard Fm	Sheppard Fm	Sheppard Fm	Shepard Fm	Shepard Fm	Shepard Fm
			Nicol Creek Fm	Nicol Creek Fm	Nicol Creek Fm	Purcell Lava	Purcell Lava	Snowslip Fm	Snowslip Fm
		Kitchener Fm	Kitchener Fm	Kitchener Fm	Siyeh Fm	Siyeh Fm	Siyeh Fm	Siyeh Fm	Snowslip Fm
	St. Regis Fm	Creston Fm	Creston Fm	Creston Fm	Grinnell Fm	Grinnell Fm	Grinnell Fm	Grinnell Fm	Helena Fm
	Revett Fm				Appekunny Fm	Appekunny Fm	Appekunny Fm	Appekunny Fm	Appekunny Fm
	Burke Fm				Allyn Fm				Spokane Fm
upper two mi	upper unit	upper unit	upper unit	Waterlton Fm	base	not		exposed	
Prichard Fm	Aldridge Fm	Aldridge Fm	Aldridge Fm	Fm 6					
				Fm 5					
				Fm 4					
				Fm 3					
				Fm 2					
base	not	exposed	base not	Fm 1	exposed				

¹ Use of the term 'Siyeh Formation' should be discontinued and be replaced by Van Creek and locally, Nicol Creek Formations (McMechan et al., 1980)

² Formations '1' to '4' have only been identified in the Pacific-Atlantic No. 1 well on Sage Creek.

³ Harrison (1972) suggested replacing this terminology with that used in the Southern Lewis and Clark Range.

FIG. 3 Generalized lithostratigraphic correlation chart for the northern Belt-Purcell basin. Areas located in Fig. 3, except southern Lewis and Clark Range (47° 25'N, 113°W). Stratigraphic nomenclature after: A - Harrison and Jobin (1963), B - Rice (1941), Reesor (1958), Glover (1978), C - Høy (1979), McMechan et al. (1980), D - Leech (1958), McMechan (1979), McMechan et al. (1980), E - Price (1962), Fermor (1980), F - Barnes (1963), Smith (1963), Johns (1970), G - Childers (1963), H - McGill and Sommers (1967).

from: McMECHAN, 1981

Morris Geological Co. Ltd.	
GOLDEN FIVE	
STRATIGRAPHIC COLUMN	
DRAWN BY: RTM	DATE: 87-09-02
AUTHOR: R.J. MORRIS	SCALE: -
FIG. 3	

GEOLOGY:

GEOLOGICAL OVERVIEW: - The Golden Five mineral claim is within the main ranges of the Rocky Mountains and in close association with the Summer Lake intrusive.

The claims are underlain by Purcell Suprgroup strata which is folded and overturned above thrust faults to the east. Structural weakening is evidenced by numerous sills and dykes and a quartz monzonite plug two kilometers to the southeast.

DETAILED GEOLOGY: - The claims are underlain by dark grey and green argillites of the Creston Formation. The strata is overturned and strikes towards 200 degrees, dips 50 degrees to the west and appears uniform throughout the property.

Three old tunnels were observed on the property which are closely associated with a major gully which trends toward 50 degrees. Figure 5 is a stereonet plot showing the intersection of the bedding plane and the slope of the hillside. The line of intersection of these two planes trends towards 64 degrees which agrees with the trend of the gully. This correlation indicates differential weathering along a bedding plane which could be caused by a weak layer or a fault.

In the lowest adit a minor quartz vein was found striking towards 0 degrees and dipping 20 degrees to the east. The intersection of the quartz vein with bedding trends towards 19 degrees which is close to the direction of the upper adit (the lowest adit was driven towards 80 degrees, the middle adit was completely caved so no direction was measured, the upper adit is toward 10 degrees).

From the limited geological data gathered it appears that the underground exploration tested several preferred structures, a bedding plane with possible faulting and a vein system cross cutting the strata.



elev. = 1545

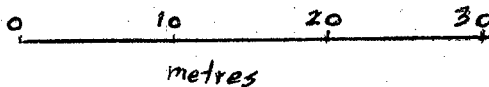
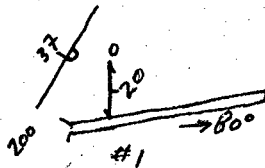
1535

↑ 10°
CAVED
#3

Gully
→ 50°

1525

200 50°
CAVED
#2



LEGEND

37° / 200 OVERTURNED BEDDING

↑ QUARTZ VEIN

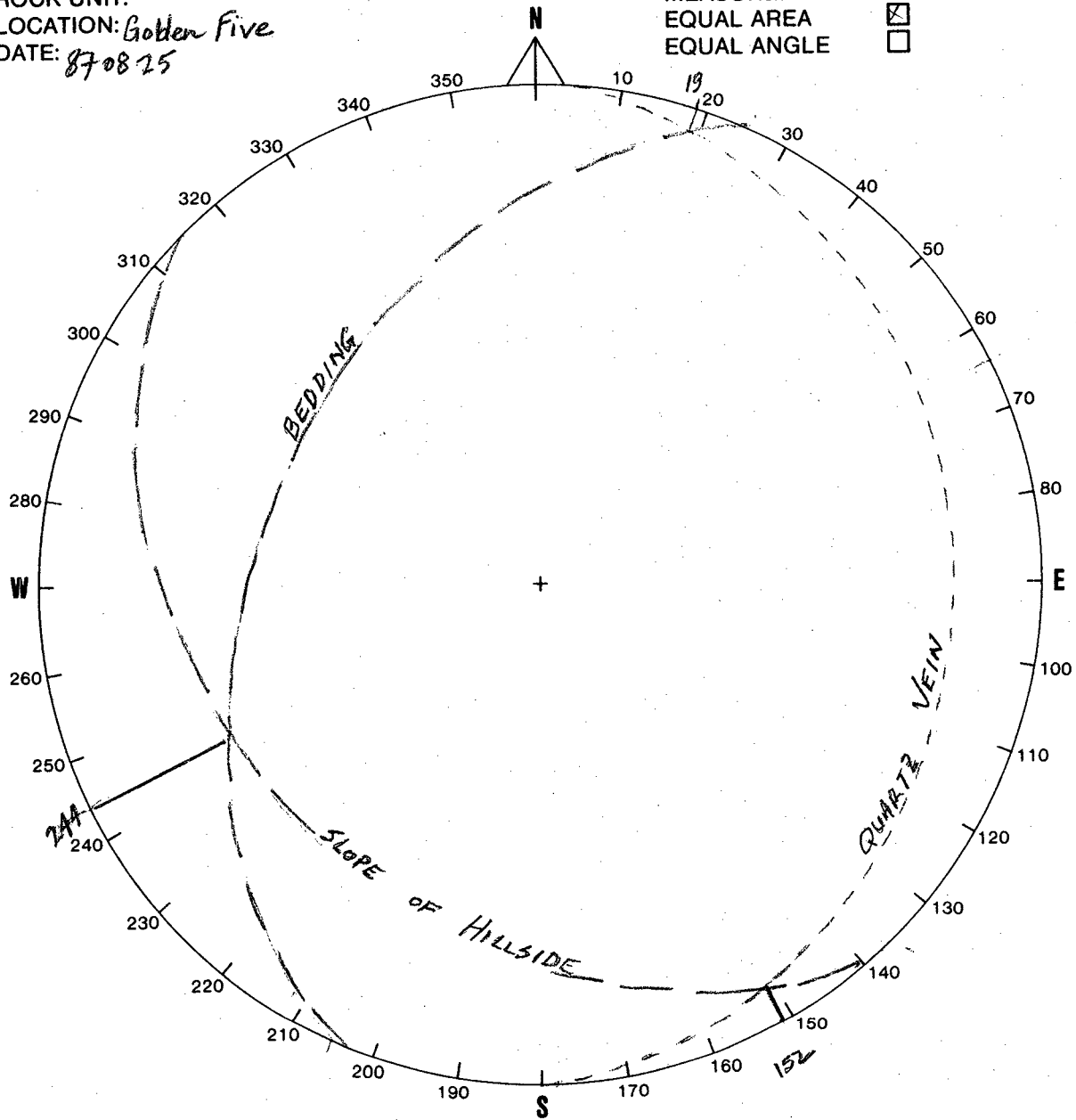
≡ TUNNEL

Morris Geological Co. Ltd.		
GOLDEN FIVE		
SKETCH PLAN		
OF OLD WORKINGS		
DRAWN BY: RJM	DATE: 87.01.03	FIG. 4
AUTHOR: R.J. MORRIS	SCALE: 1:500	

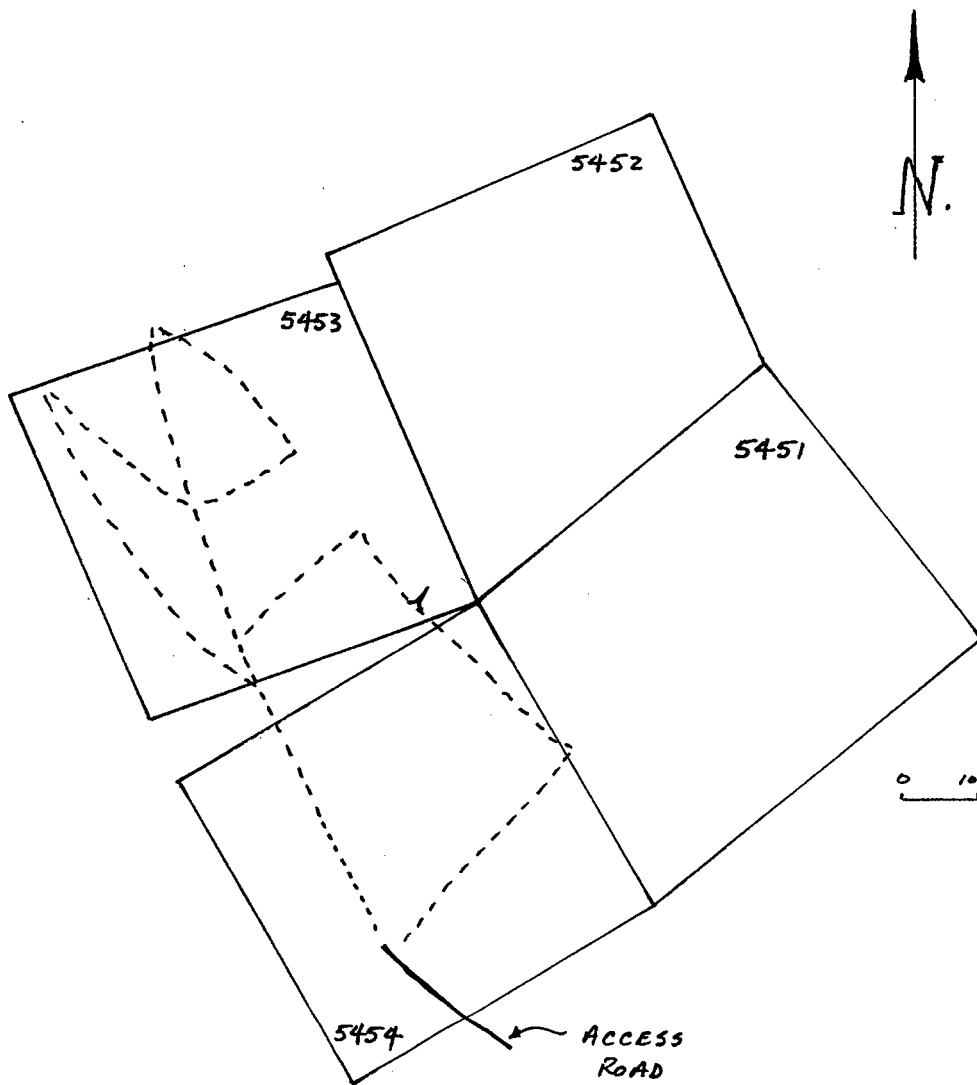
ROCK UNIT:
 LOCATION: *Golden Five*
 DATE: *870825*

MEASURED BY:
 EQUAL AREA
 EQUAL ANGLE

RJM



<i>Morris Geological Co. Ltd.</i>		
GOLDEN FIVE		
<u>STEREONET PLOT</u>		
BEDDING, QUARTZ VEIN, SLOPE OF HILL		
DRAWN BY: <i>RJM</i>	DATE: <i>87-08-31</i>	FIG. 5
AUTHOR: R.J. MORRIS	SCALE: —	



LEGEND

- ACCESS ROAD
- Y ADITS
- MAPPING TRAVERSES

<i>Morris Geological Co. Ltd.</i>		
GOLDEN FIVE		
PROSPECTING TRAVERSES		
DRAWN BY: <i>RJM</i>	DATE: <i>87-12-11</i>	FIG. 6
AUTHOR: <i>R.J. MORRIS</i>	SCALE: <i>1:10,000</i>	

ITEMIZED COST STATEMENT:

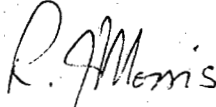
Field Work: - May 23rd, 1987	\$250.00
- May 28th, 1987	\$250.00
Truck Rental: - 2 days x \$25.00/day	\$ 50.00
Fuel:	\$ 55.00
Report Preparation: - 1 day	\$250.00
TOTAL:	<u>\$855.00</u>


STATEMENT OF QUALIFICATIONS:

I, Robert J. Morris, President of Morris Geological Co. Ltd.,
Consultant Geologist do declare:

- THAT I graduated as a Geologist from the University of
British Columbia, Vancouver, with a degree of Bachelor of
Science in 1973.
- THAT I graduated as a Geologist from Queen's University,
Kingston, Ontario, with a degree of Master of Science in 1978.
- THAT I am a Fellow of the Geological Association of Canada.
- THAT I hold no interest, nor expect any, in the Golden Five
mineral claims.
- THAT I personally wrote and supervised the preparation of
this report.

Fernie, B. C.


R. J. MORRIS, M. Sc.



RECOMMENDATIONS FOR FURTHER WORK:

The Golden Five claims saw considerable exploration at the turn of the century but no new work has been reported.

It is recommended that several soil geochemistry contour lines be completed to determine if the area around the old workings is anomalous. In conjunction with sampling, the area should be mapped geologically and thoroughly prospected.

REFERENCES:

- Hoy, T., 1978. Geology of the Estella - Kootenay King Area, S. E. British Columbia. B.C.E.M.P.R., Preliminary Map No. 28.
- Hoy, T., 1979. Geology of the Estella - Kootenay King Area, Hughes Range, S. E. British Columbia. B.C.E.M.P.R. Preliminary Map No. 36.
- Hoy, T., 1984. Geology of the Cranbrook Sheet and Sullivan Mine Area. B.C.E.M.P.R. Preliminary Map No. 54.
- Leach, G.B., 1960. Fernie Map - area, West Half. G.S.C. Map 11-1960.
- McMechan, M. E., 1981. The Middle Proterozoic Purcell Supergroup in the Southwestern Rocky and Southeastern Purcell Mountains, B. C. and the initiation of the Cordilleran Miogeocline, southern Canada and adjacent United States. Bull. of Can. Pet. Geol., Vol. 29, No. 4, p. 583 - 621.