

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 92.03.11

ASSESSMENT REPORT 21423

MINING DIVISION: Fort Steele

PROPERTY: Bird-Lynx

LOCATION: LAT 49 48 04 LONG 115 30 19
UTM 11 5517370 607565
NTS 082G13E 082G14W

CAMP: 001 Purcell Belt (Sullivan)

CLAIM(S): Bird 1-9, Lynx 1-6

OPERATOR(S): Johnstone, G. Fairclough, F.

AUTHOR(S): Klewchuk, P.

REPORT YEAR: 1991, 12 Pages

COMMODITIES

SEARCHED FOR: Copper, Gold

KEYWORDS: Helikian, Purcell Supergroup, Van Creek Formation, Siltstones
Kitchener Formation, Dolomitic siltstones, Cambrian
Jubilee Formation, Limestones, Felsic dykes, Quartz veins, Sulphides

WORK

DONE: Prospecting
PROS 120.0 ha
Map(s) - 1; Scale(s) - 1:5000

ASSESSMENT REPORT

on

PROSPECTING

BIRD GROUP

Wild Horse River Area

Fort Steele Mining Division

NTS 82 G/ 13 & 14

Latitude 49° 48' N
Longitude 115° 31' W

Owners and Operators: Frank Fairclough
Gordon Johnstone

By: Peter Klewchuk
Geologist

June 5, 1991

LOG NO: JUN 18 1991 K
ACTION:
FILE NO:

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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,423

1.00 INTRODUCTION

1.10 Location and Access

The Bird Property is located 30 kilometers northeast of Cranbrook, B.C., in the Hughes Range of the Rocky Mountains, within the Wild Horse River drainage, just north of the confluence of Trail Creek and the Wild Horse River (Fig. 1). The property is centered approximately at Longitude 115° 31'W and Latitude 49° 48'N. Access is via Highway from Cranbrook to Fort Steele and then along the Wild Horse River logging road about 23 kilometers to the property.

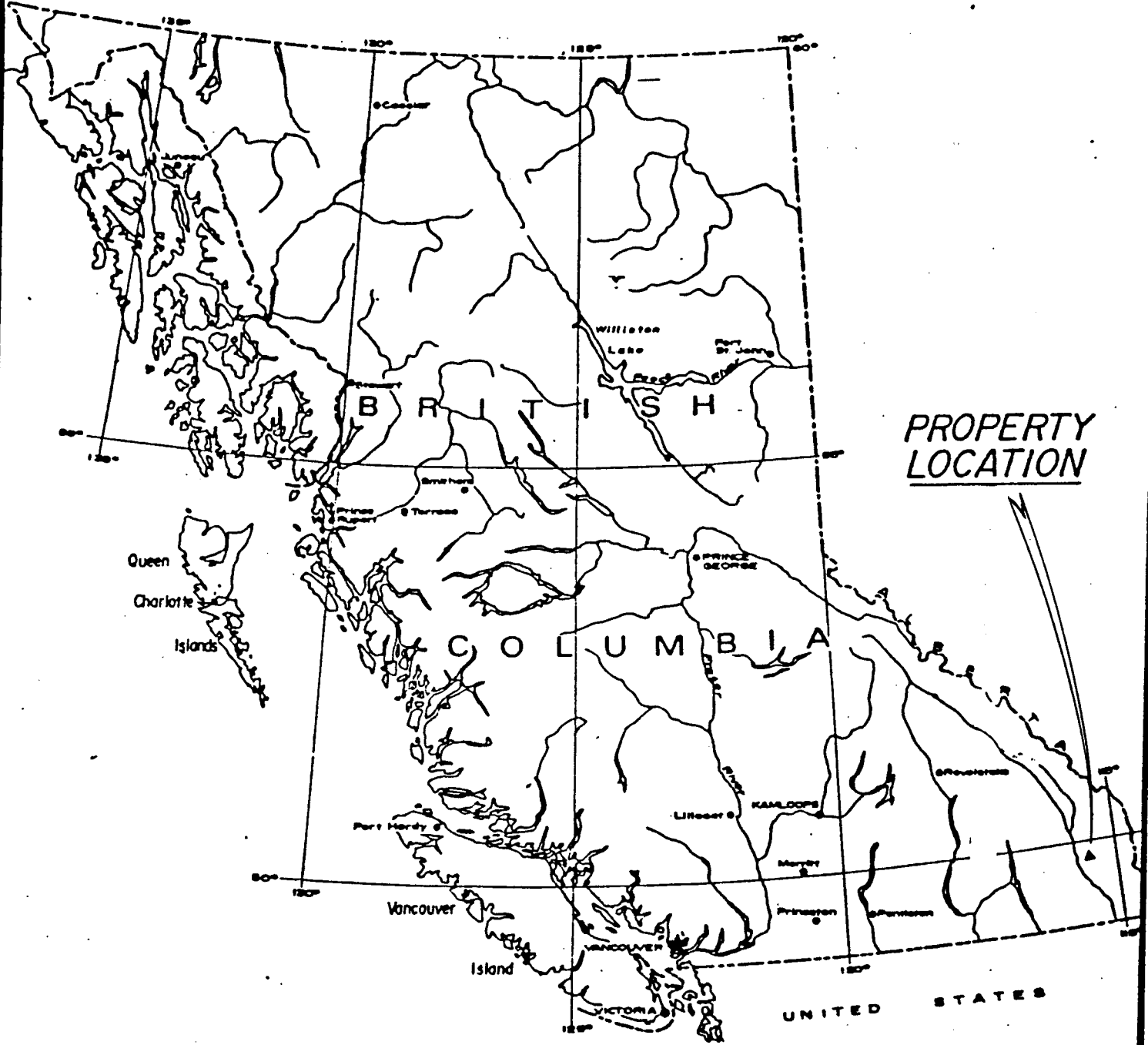
1.20 History

The Wild Horse River has an extensive history of placer gold production dating back to the 1860's. Exploration for lode gold sources of the placers has been successful with discovery of only small deposits, with the Big Chief and the Dardanelles being examples. More recently, the area has seen work by companies such as Placer Dome who drilled a copper-gold occurrence within a syenite intrusive on the Wild claims immediately east of the Bird Group. In 1990, Kokanee Explorations Ltd. conducted a drill program in the East Wild Horse River drainage on a lead-zinc-copper target in Cranbrook Formation carbonates immediately west of an intrusive stock.

1.30 Property

The Bird Property consists of 9 two-post mineral claims staked in March, May and June of 1990 by Frank Fairclough and Gordon Johnstone of Cranbrook, B.C. (Fig. 2).

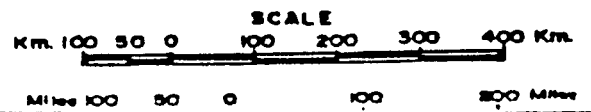
Claim Name	Record No.	Owner	Date of Record	Due
Bird No 1	4220	FF	March 11, 1990	1994
Bird No 2	4221	FF	March 11, 1990	1994
Bird No 3	4222	FF	March 11, 1990	1994
Bird No 4	4223	FF	March 11, 1990	1994
Bird No 5	4424	FF	May 5, 1990	1994
Bird No 6	4425	FF	May 5, 1990	1993
Bird No 7	4426	FF	May 5, 1990	1993
Bird No 8	4427	FF	May 5, 1990	1992
Bird No 9	4428	FF	May 5, 1990	1992
Lynx No 1	4470	GJ	May 8, 1990	1992
Lynx No 2	4471	GJ	May 8, 1990	1992
Lynx No 3	4472	GJ	May 8, 1990	1992
Lynx No 4	4473	GJ	May 8, 1990	1992
Lynx No 5	4577	GJ	June 17, 1990	1992
Lynx No 6	4578	GJ	June 17, 1990	1992

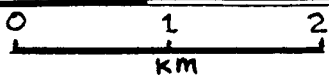
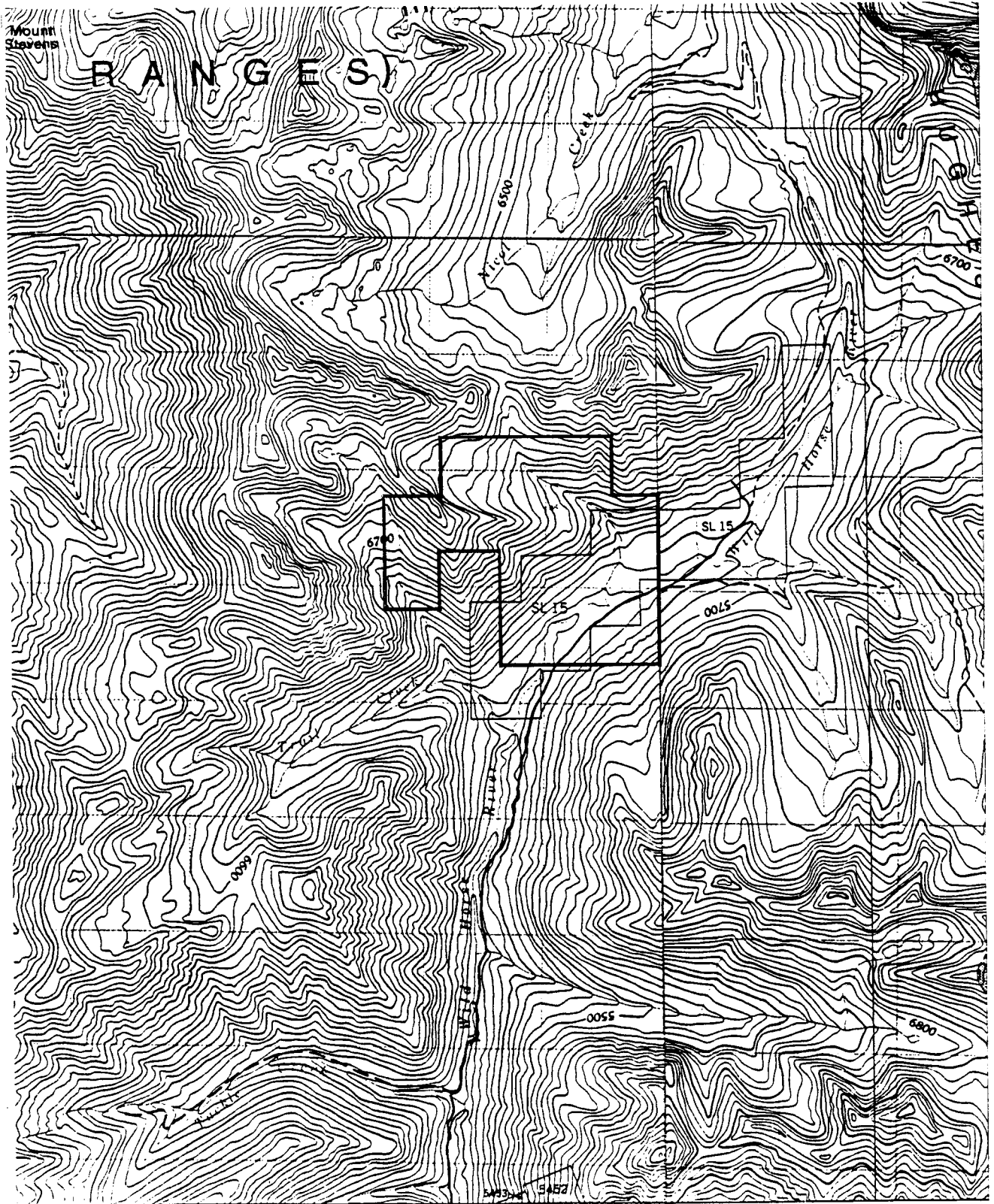


PROPERTY LOCATION

FIGURE 1
BIRD GROUP

LOCATION MAP





82 G/13 115°30' 82 G/14

Figure 2
Bird Group
Claim Map
Scale 1:50,000

1.40 Program

In 1990 an initial prospecting program was undertaken on the Bird Group claims to evaluate their mineral exploration potential.

2.00 GEOLOGY

2.10 Regional and Property Geology

Mapping by Leech (1960) and Hoy (1979) covers the area of the Bird Group. Structure is dominantly north-striking with moderate to steep overturned west dips. Upper Precambrian stratigraphy of the Kitchener, Van Creek, Nicol Creek and Sheppard Formations occur on the west side of the Bird Group with Cambrian Jubilee Formation on the east.

One small felsic stock occurs on the northern edge of the property; another occurs just northeast of the property. A major north-striking thrust fault occurs just east of the property while the transverse, east-striking Lewis Creek Fault crosses the southern part of the claims.

The approximate geologic contacts and fault locations are shown on Figure 3.

2.20 Prospecting

Prospecting was conducted primarily by the owners, Frank Fairclough and Gordon Johnstone. Prospecting traverses are shown on Figure 3. One day was spent by Glen Depaoli of Kokanee Explorations Ltd. examining the South Bend Showing and one day was spent by the author examining all three of the significant showings indicated on Figure 3.

2.30 Description of showings

2.31 TZ Showing

This showing consists of a pyrite-bearing felsic intrusive dike intruding a limestone breccia of the Jubilee Formation. The showing occurs in the northeast part of the claims, at an elevation of 1740 meters. A logging road has exposed a one meter wide dike which appears to be oriented north-northeasterly with a steep west dip. Further prospecting in the area did not find any extensions to this structure but exposure in the immediate area is very limited. Pyrite occurs both disseminated through the intrusive and as thin veinlets and fracture fillings. Geochemical analyses show elevated copper (168 PPM), nickel (1388 PPM), and cobalt (140 PPM). One of the samples has 15 PPM uranium and all

three of the analyzed samples from this dike have elevated titanium (2 to 3.4%) and elevated zirconium. These analyses suggest that a mafic parent exists to the felsic intrusives seen on surface.

2.32 South Bend Showing

This showing occurs adjacent to the Wild Horse River, where it makes a sharp bend to the south. Pyrite and chlorite are extensively developed in quartzites of the Van Creek Formation. The mineralization occurs as ragged bedding-parallel and cross-cutting lenses and bands. A poorly exposed felsic dike occurs near the base of the bedrock that can be seen on the south side of the river. The intrusive looks generally similar to the one seen at the TZ Showing but only minor fine-grained pyrite was noted within the intrusive at the South Bend Showing.

Detailed structure of the showing appears to be a monocline with the steep-dipping portion coinciding with the abundant development of pyrite and chlorite. Fracturing on the north side of the river is north striking. It may be related to both the development of the monocline and the introduction of pyrite and chlorite. Geochemical analyses show slightly enriched copper and nickel with one quartz vein giving 32 PPB gold.

Extensive thick deposits of glacial drift in the lower part of the Wild Horse River valley at this location made tracing the zone along strike impossible.

2.33 Quartz Vein Showing

A galena-bearing quartz vein crops out on the western edge of the Bird No 4 claim at an elevation of 1830 meters. The vein is north-striking with steep east dip. A width of about 25 cm was exposed on surface and further digging with a grub hoe failed to expose anything wider. The vein occurs over about 5 vertical meters and the base of it was not exposed. Minor amounts of galena are scattered through the quartz along all of its exposure. No samples were collected from this showing.

2.40 Discussion

All three showings discovered to date on the Bird Group have a general northern strike and appear to be structurally-controlled. Although geochemical analyses done to date are only moderately encouraging, further work is warranted, in particular to sample the Quartz Vein Showing and determine the gold content of the vein.

3.00 CONCLUSIONS

A preliminary prospecting evaluation of the Bird Group claims has identified 3 showings of interest. All three appear to have some structural control with a northerly strike. This suggests that, if economic mineralization exists on the property, it may be similarly controlled by a northerly-striking structure.

4.00 RECOMMENDATIONS

The Quartz Vein Showing should be sampled and analyzed to determine if any gold is present. If anomalous gold exists, the vein should be traced by further prospecting and trenching.

5.00 REFERENCES

- Hoy, T. 1979. Geology of the Estella-Kootenay King area, Hughes Range, Southeastern British Columbia, B.C. Ministry of Energy, Mines and Petroleum Resources, Preliminary Map 36.
- Leech, G.B. 1960. Geology Fernie (West Half), Kootenay District, British Columbia, Geological Survey of Canada, Map 11-1960.

5.00 STATEMENT OF COSTS

Prospecting 10 days @ \$150/day	\$1500.00
4X4 Truck 5 days @ \$50/day	250.00
Geochemical Analyses	327.50
Report Writing 2 days @ \$150/day	300.00
Drafting, printing, supplies	175.00
TOTAL	\$2552.50 =====

7.00 AUTHOR'S QUALIFICATIONS

As author of this report I, Peter Klewchuk, certify that:

1. I am an independent consulting geologist with offices at 246 Moyie Street, Kimberley, British Columbia.
2. I am a graduate geologist with a BSc degree (1969) from the University of British Columbia and an MSc degree (1972) from the University of Calgary.
3. I am a Fellow in good standing of the Geological Association of Canada.
4. I have been actively involved in mining and exploration geology, primarily in the province of British Columbia, for the past 18 years.
5. I have been employed by major mining companies and provincial government geological departments.

Dated at Kimberley, British Columbia, this 5th day of June, 1990.

Peter Klewchuk

Peter Klewchuk
Geologist

DRILL ASSAY RECORD

Acme Form

Bird
Wildhorse

From	To	Width	Sample #	Mo	Cu	Pb	Zn	Al	Mn	Co	Ni	Fe	As	U	Au	Th	Sr	Ca	Sb	Bi	V	Ce	La	Cr	Mg	Ba	Si	Al	Na	K	Au*	Ti	Zr	
				ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	%	%	ppb	%	ppm	
Pyrite	Talco	Andstone	34156	2	168	14	5	1388	140	18	14.01			5	ND	4	89		3	8	25	1.05	40	93	.61	5		4	.78	.01	.47	12.00	274	
contorted	Talco	Mudstone	34157	1	3	7	4	7	1	11	.20			15	ND	12	55		2	2	22	3.29	21	79	.73	9		6	1.07	.02	.60	3.40	486	
Speckled	Talco	Mudstone	34158	1	3	12	4	7	1	13	.13			5	ND	8	16		2	2	19	1.95	39	38	.77	6		4	1.03	.82	.50	3.15	338	
stake	25% pyrite		34159	2	37	29	1	28	19	28	7.99			5	ND	2	5		2	2	1	.05	4	5	.82	8		6	.08	.01	.05	6	-	-
stake	30% pyrite		34160	4	510	18	9	34	35	50	5.67			5	ND	2	6		2	5	4	.04	4	8	.08	10		3	.38	.01	.12	6	-	-
stake	10% pyrite		34161	2	7	8	2	10	5	23	1.18			5	ND	7	12		2	2	3	.07	25	7	.05	10		3	.23	.01	.14	1	-	-
stake	50% pyrite		34162	2	25	5	2	16	8	15	3.88			5	ND	5	7		4	6	6	.03	11	6	.11	13		6	.29	.01	.21	1	-	-
stake	15% pyrite		34163	5	39	7	1	28	18	34	3.71			5	ND	5	8		2	7	2	.21	12	7	.04	5		3	.22	.01	.14	1	-	-
stake	vs minor pyrite		34164	4	204	2	1	10	2	56	.54			5	ND	2	12		2	2	1	.22	6	6	.03	99		2	.10	.01	.06	32	-	-
stake	stake		34165	12	190	12	5	24	24	26	5.08			5	ND	10	9		2	5	11	.07	23	7	.06	22		3	.42	.01	.10	3	-	-
Granite	Dike		34166	4	179	2	4	10	4	28	2.15			5	ND	14	5		2	2	12	.03	12	5	.04	13		2	.16	.02	.08	1	-	-
Pyrite	stake	15% pyrite	34167	1	6123	14	27	126	31	139	15.03			5	ND	6	9		2	2	26	.07	3	14	.41	8		2	2.02	.01	.18	4	-	-

rutile? (

Ilmenite FeTiO₃
volcanic origin

Hole #:	Property of Prospector:	Logged by:	Date Shipped:	Date Assays Received:
Bird Claims, Wildhorse	Bird Claims, Wildhorse	G. D. P.	May 17	May 28
		Sampled by:	To:	Filed by:
		G. D. P.	Acme	G. D. P.
		Shipped by:	Via:	
			Bus	

Remarks:

ECO-TECH LABORATORIES LTD.

KOKANEE EXPLORATIONS LTD. - ETK 90-185

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5704
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104 135 -10th Ave. S.
CRANBROOK, B.C.
VIC 2M1

BIRD
WILD HORSE

JUNE 25, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PAGE 1

PROJECT: STAR
109 CORE/ROCK SAMPLES RECEIVED JUNE 19, 1990

ET#	DESCRIPTION	AU(ppb)	AG	AL(S)	AS	B	BA	BI	CA(S)	CD	CO	CR	CU	FE(S)	K(S)	LA	MG(S)	NM	NO	NA(S)	NI	P	PB	SB	SH	SI	TI(S)	U	V	W	Y	ZN
185 - 1	Jn 15-1	15	.8	.43	135	2	30	15	.03	11	26	77	114	5.59	.23	110	.04	2202	5	.05	64	340	12	30	120	4	<.01	110	45	110	13	85
185 - 2	Jn 15-2	10	.4	.48	120	2	25	15	.05	11	22	44	347	5.62	.20	10	.05	998	2	.06	53	530	16	35	120	4	<.01	110	108	110	17	129
185 - 3	BIRD Jn 17	15	30.0	.42	15	42	15	330	.02	11	230	176	.37	.02	110	.01	32	36	.05	74	150	10000	25	120	9	<.01	110	24	110	13	85	

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CRANBROOK, B.C.
VIC 2M1

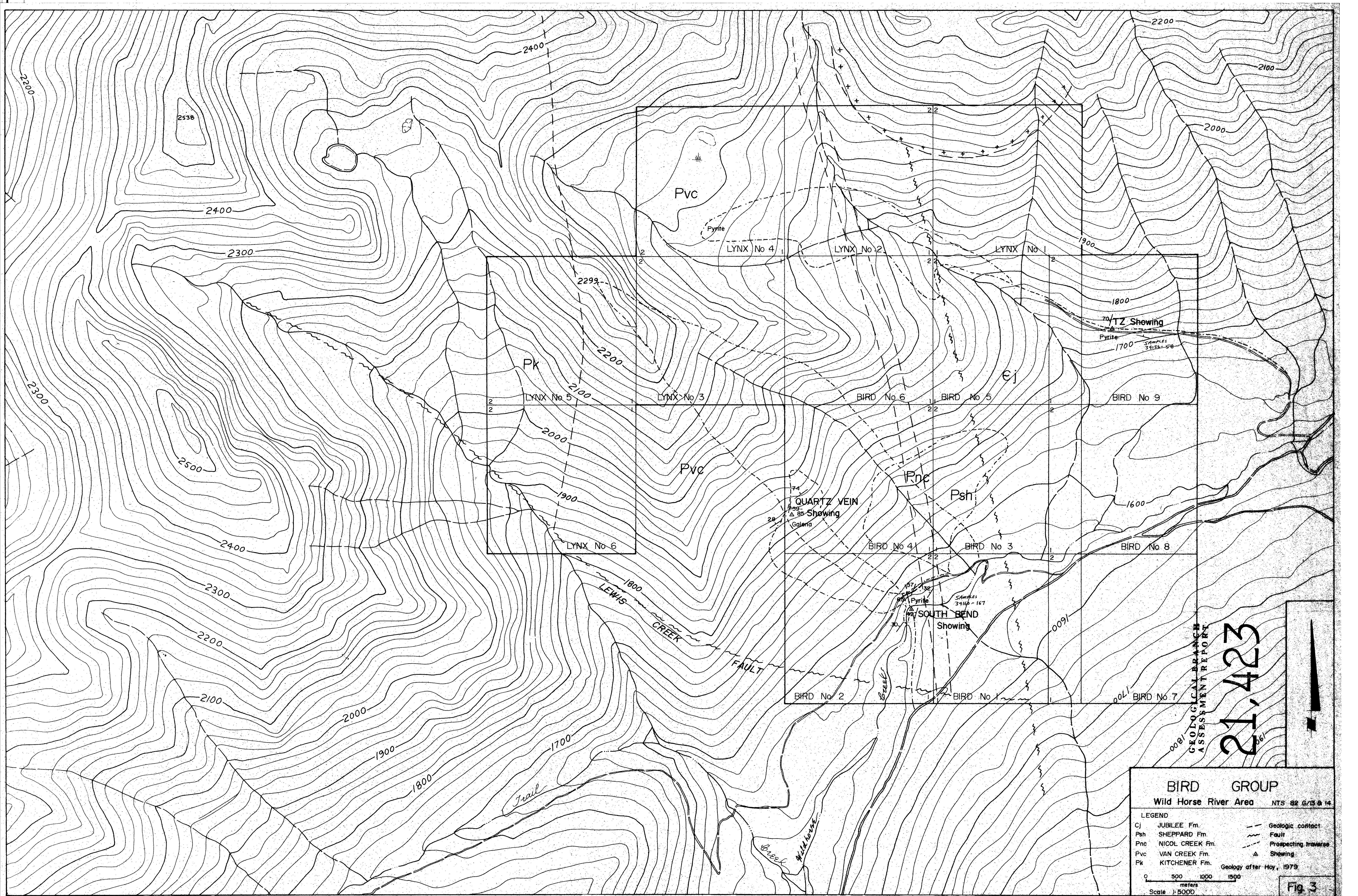
JUNE 25, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PAGE 1

PROJECT: STAR
109 CORE/ROCK SAMPLES RECEIVED JUNE 19, 1990

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185 - 1	Jn 15-1	15	.8	.43	135	2	30	15	.03	11	26	77	114	5.59	.23	110	.04	2202	5	.05	64	340	12	30	120	4	<.01	110	45	110	13	85
185 - 2	Jn 15-2	10	.4	.48	120	2	25	15	.05	11	22	44	347	5.62	.20	10	.05	998	2	.06	53	530	16	35	120	4	<.01	110	108	110	17	129
185 - 3	BIRD Jn 17	15	30.0	.42	15	42	15	330	.02	11	230	176	.37	.02	110	.01	32	36	.05	74	150	10000	25	120	9	<.01	110	24	110	13	85	



GEOLOGICAL BRANCH
 ASSESSMENT REPORT
21,423

BIRD GROUP

Wild Horse River Area NTS 82 G/3 & 14

LEGEND

Cj	JUBILEE Fm.	---	Geologic contact
Psh	SHEPPARD Fm.	---	Fault
Pnc	NICOL CREEK Fm.	---	Prospecting traverses
Pvc	VAN CREEK Fm.	▲	Showing
Pk	KITCHENER Fm.		

Geology after Hoy, 1979

0 500 1000 1500
meters
Scale 1:5000

Fig. 3