ARIS SUMMARY SHEET

District Geologist, Victoria Off Confidential: 89.06.23 ASSESSMENT REPORT 17722 MINING DIVISION: Alberni PROPERTY: Freegold LOCATION: LAT 49 14 45 LONG 125 43 00 UTM 10 5458117 302280 NTS 092F04E -CLAIM(S): Freegold OPERATOR(S): Stork Ventures AUTHOR(S): Robertson, R.C.R. REPORT YEAR: 1988, 29 Pages COMMODITIES SEARCHED FOR: Gold GEOLOGICAL -SUMMARY: The property is underlain by Sicker Group volcanic and sedimentary rocks which have been intruded by granitic to dioritic rocks of probable Middle Jurassic age. Gold mineralization occurs immediately north of the property in similar geology. WORK DONE: Geological, Geochemical, Geophysical EMGR 9.5 km;VLF Map(s) - 2; Scale(s) - 1:4000 75.0 ha GEOL Map(s) - 1; Scale(s) - 1:4000MAGG 9.5 km Map(s) - 1; Scale(s) - 1:40007 sample(s) ;AU,AG 356 sample(s) ;AU,AG ROCK SOIL Map(s) - 1; Scale(s) - 1:4000

Π	LOC NU 0902 :0
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	ASSESSMENT REPORT
	GEOLOGY, GEOCHEMISTRY, GEOPHYSICS, PROSPECTING
	FREEGOLD MINERAL CLAIM (3264)
0	WARN BAY, VANCOUVER ISLAND
Δ	BRITISH COLUMBIA ALBERNI M.D.
	FILMED
Π	NTS 92F4E/SE 49° 15' N 125° 43' W LOGICAL BRANCH
	ABSESSMENT REPORT
n	for for
	STORK VENTURES LTD. Suite 670 - 650 West Georgia Street
	V6B 4N8
	b y
[]	RONALD C.R. ROBERTSON, F.G.A.C. ROBERTSON, WALLIS & ASSOCIATES 708 - 1155 West Pender Street
Π	Vancouver, B.C. V6E 2P4
	June, 1988

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INTRODUCTION

Stork Ventures Ltd. owns the 20 unit Freegold mineral claim located on the east side of Warn Bay, near Tofino on Vancouver Island. Tymar Management Ltd. were contracted to carry out a preliminary program of grid establishment, prospecting, geological mapping, soil sampling and ground geophysics (magnetometer and VLF-electromagnetic surveys). This forms part of the evaluation program recommended by J.E. Wallis, P.Eng. in a report dated 11 April, 1988. The field program was carried out from 25 April to 25 May, 1988. The writer visited the property from 10-14 May, 1988.

PROPERTY

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The Freegold property is located on the west side of Vancouver Island (Figure 1) and consists of a 4 by 5 unit block of 20 units staked on 1-2 June, 1987 and recorded in the Port Alberni Mining Division on 23 June, 1987, with record number 3264. The property was subsequently transferred to Stork Ventures Ltd. of Vancouver, by Bill of Sale. Claim location is shown in Figure 2.

After completion of the field program, two additional mineral claims totalling seven units were staked on the west and southwest sides of the Freegold claim.

LOCATION AND ACCESS

The Freegold mineral claim is located on the northeast side of Warn Bay in claim sheets 92F 4E and 92F SE. Geographical coordinates are 49° 15' north latitude and 125° 43' west longitude. Access to the property is normally by boat from the town of Tofino (approximately one hour) or by float plane from the same centre. A logging road is presently in use along the east shore off Warn By, through the western portion of the Freegold





claim; 4-wheel drive vehicles or heavy equipment could be brought by barge to the property by arrangement with MacMillan - Bloedel.

CLIMATE, PHYSIOGRAPHY, VEGETATION

The property covers an area of steep rugged terrain with heavy timber cover and dense underbrush typical of the west side of Vancouver Island. Relief ranges from sea level to just over 900 meters A.S.L. (approximately 2,950 feet); local topography is rugged with bluffs and cliffs. Several creeks drain the west side of the property in steep drainages with gorge walls, difficult to traverse after heavy rain. Much of the lower western slope of the claim has been logged from near sea level to an approximate elevation of 50 - 110 meters; the ground cover base is of fallen logs and locally heavy brush.

Annual precipitation is high, typical of coastal rain forest areas. Average temperatures vary from summer highs of $+30^{\circ}$ C to winter lows of -2° C. Minor amounts of snow were still present at the highest elevations on the property at the time of the 1988 exploration program.

REGIONAL GEOLOGY

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The property is situated close to the western margin of the Insular Belt on Vancouver Island, within the Alberni Map - Area which was mapped and described by Muller and Carson of the Geological Survey of Canada (1969). Figure 3 of the present report is devised from this map.

Much of the region is underlain by a west to northwest trending belt of green schist facies regionally metamorphosed intermediate volcanic and pyroclastic rocks assigned by Muller and Carson (1969) to the lower part of the Sicker Group. This is a thick monotonous sequence of massive andesitic rocks ("greenstone") with minor amounts of argillite, limestone and skarns of Lower Pennsylvanian or older age. Minor amounts of Lower



Permian Butte Lake Formation limestones (also part of the Sicker Group) are mapped to the northeast of the property. Also to the northeast is an area of Triassic Karmutsen basalts.

These units are intruded by a varied series of igneous rocks called the "West Coast Crystalline Complex" by Muller and Carson (1969). Unit A is a group of hornblende - plagioclase gneisses and amphibolites ("West Coast Gneiss Complex") mapped in the area immediately south of the Freegold property and separated from Sicker group greenstones to the north by an east-west fault zone along Vinge Creek. Unit B is a suite of hybrid hornblende diorites, quartz diorite and agmatite ("West Coast Diorites") outcropping north of the Freegold property in a complex series of fault blocks. Unit C consists of guartz diorite and granodiorite of the "Tofino Inlet Pluton", and occurs some distance southeast of the property in apparent fault contact with Unit A and Sicker Group volcanics. The "West Coast Crystalline Complex" is believed to represent Sicker Group volcanic rocks which have been metamorphosed and migmatized probably at the same time as intrusion of the mid-upper Jurassic Vancouver Island granodiorite and quartz-monzonite batholiths occurred elsewhere on the Island. In this scenario the "West Coast Crystalline Complex" consists of rocks which have been less homogenized and shows less mobilization away from their source area than the Vancouver Island Intrusives; relatively homogeneous units within the complex, such as the "Tofino Inlet Pluton" represent the initial mobilization of rocks of the complex.

PROPERTY HISTORY

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The old Freegold adits are located north of the present Freegold mineral claim; two short adits were driven in 1940-42 on a gold-mineralized quartz vein discovered in the 1930's. The lower adit was driven for 25 meters on a narrow quartz vein (0.2 - 1.0 meters) within a shear zone striking 260° and dipping steeply to the north. A second adit, located 20 meters above, was drifted for seven meters. Vein material was mined, crushed and hand sorted on site. A shipment of 0.488 tons grading 6.84 ounces per ton gold

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and 2.0 ounces per ton silver was made in 1941 and a shipment of 0.988 tons grading 9.02 ounces per ton gold and 2.8 ounces per ton silver was made in 1942 (B.C.M.M., 1941 and 1942).

In 1981 Summit Pass Resources Ltd. of Vancouver carried out a preliminary exploration program on claims covering the old Freegold adits and including parts of the present Freegold mineral claim (Brownlee, 1981).

In 1984 D.A. Caulfield of Pamicon Developments Ltd. examined the old adits for Royalon Petroleum Corporation (Caulfield and Ikona, 1985).

1988 EXPLORATION PROGRAM

Introduction

Between April 25 and May 25, 1988 Tymar Management Ltd. carried out a preliminary exploration program on the Freegold mineral claim on behalf of Stork Ventures Ltd., the property owners. This program consisted of establishing 11.4 line kilometers of hi-chain and compass grid on the west side of the property and using this grid as control for soil sampling, ground magnetometer and VLF-EM surveys, prospecting and preliminary geological mapping. This program was hampered by heavy rain during the period of exploration and by difficult terrain and dense bush.

The grid baseline was established with a true east bearing from a zero point on the logging road 275 meters down the road (south) from where the north boundary line of the Freegold mineral claim meets the road (approximately 250 meters east along the boundary line from the C.C.P.). The baseline was corrected for slope. Because of cliffs a short offset in the baseline was required going east from line 6+00 east.

Geology and Prospecting

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A limited program of prospecting and geological mapping was carried out in conjunction with the 1988 surface exploration program. Prospecting was conducted at the same time as the grid was being established, and covered the approximate 11.4 line kilometers of grid as well as rock outcrops exposed along the logging road in the northwest corner of the Freegold claim and west of the claim, and exposures in Creek beds. Mapping concentrated on the northwest and west portion of the property because of the increased outcrop exposure in the logged area; the emphasis of mapping was to understand geological relationships on the Stork Ventures claim and compare these to the area of the Freegold quartz vein to the north.

Most rock exposed on the west side of the claim consists of low grade regionally metamorphosed green, brown or black andesites and basalts of the Sicker Group. These rocks are generally dark, massive and fine grained; mainly non-porphyritic and non-vesicular. Original textures are rarely seen. Patchy veinlets of quartz and epidote are common, as are small pods (to 10 cm) of grey and white calcite. Less often seen are small patches and "sweats" of white and grey quartz, dark salmon-pink feldspar, epidote and dark chlorite. Minor amounts of pyrite occur as fine disseminations or in fine veinlets. These areas always appear silicified. Occasional distinctive dark brown rusty weathering zones contain both pyrite and pyrrhotite as fine grained disseminations.

These rocks are frequently intruded by narrow dykes (0.5 - 5 meters) of uncertain age, commonly near-vertical on trends between east-west and northwest-southeast. Typically dykes are pale feldspar porphyries (with or without quartz phenocrysts) containing biotite and/or hornblende with an aphanitic matrix. Meta-andesite wall rocks commonly show slight baking at dyke contacts indicating that regional metamorphism of the Sicker Group predates intrusion of the dykes which are probably related to midupper Jurassic igneous events (formation of the "West Coast Crystalline Complex" and emplacement of the Vancouver Island batholiths). A less common variety of dyke rock has 5-10% euhedral amphibole phenocrysts in a fine grained matrix.

On the north and southwest sides of the Stork Ventures claim ie. around the Freegold adits and along the road west of the Freegold claim and downslope from both areas a variety of intrusive rocks are seen in complex interfingering relationships with Sicker Group meta-andesites. The intrusive rocks are essentially hornblende-plagioclase types (gabbros and diorites) but with considerable local variations in grain size, mineral proportions and textures suggesting proximity to a complex contact zone with some assimilation of andesitic county rocks. Overall relationships indicate that these intrusive rocks underlie the Sicker Group greenstones and are only exposed (unroofed) at lower elevations. Sicker Group rocks are commonly hornfelsed close to the upper surface of the intrusive (for example, Figure 4 of Brownlee, 1981); the intrusive roof is probably irregular in detail and some areas of hornfelsed greenstones seem included as roof pendants or screens within areas of diorite.

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A total of seven rock samples were collected during prospecting and mapping. Samples of several pounds weight was submitted to Bondar-Clegg and Co. Ltd., North Vancouver, for analysis; analytical methods and results are included in Appendix 1 and sample locations for most samples are shown in Figure 4. Several samples of partially mineralized rock collected away from the property was analyzed. Quartz veins seen in outcrop on line 2E at 4+00S and 4+40S were not sampled; the latter site was under deep water in a creek. Sample results and descriptions are listed below; none of the results are more than slightly anomalous.

Sample	Gold (ppb)	Silver (ppm)	Description
1201	5	0.1	Composite chip; rusty shear zone with quartz veinlets.
1202	8	0.1	Quartz-Chlorite-Pyrite vein float; off property
1203	96	0.2	Pyritic cherty rhyolite float; off property

Sample	Gold (ppb)	Silver (ppm)	Description
1204	11	0.1	Narrow quartz-feldspar vein; outcrop
1205	41	0.1	Quartz vein (0.6 m); outcrop
1206	87	6.6	Quartz-feldspar veinlets; outcrop
1207	115	0.1	Narrow quartz vein; outcrop

Soil Geochemistry

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A total of 355 soil samples and one silt sample were collected from the grid area of the Freegold claim. A number of sample sites could not be sampled because of rock outcrops, or lack of suitable B-horizon material. Samples were analyzed for gold and silver by Bondar-Clegg and Co. Ltd., North Vancouver; analytical methods and results are included as Appendix 2. Sample locations and results are plotted on Figure 5. Gold analyses should be carried out using 30 grams of minus 80 mesh material. This was barely possible; in consequence, some of the variation in gold content of the samples may be a result of varied sample weights or of differing proportions of minus 80 and minus 20 mesh material used in the analyses.

None of the silver analyses gave anomalous results. Thirty-two samples showed slightly anomalous to moderately anomalous gold contents of 50 ppb or greater. Of these 7 samples showed more strongly anomalous gold values of 100 ppb or greater, with a maximum value of 662 ppb at station 13+40S on Line 1+00E. Interpretation of these anomalies is difficult as their distribution suggests a series of spot anomalies without an obvious, common source. Spot anomalies are typical of gold distribution in soils on steep slopes, particularly when sources are likely to be narrow vein zones with erratic mineralization.

The 20 meter sample interval gives adequate coverage for preliminary sampling, however the 100 meter line spacing precludes correlation of

anomalies from line to line. Clustering of predominantly low order anomalies north of the baseline on lines 5, 6, 7 may require some more detailed sampling and prospecting to determine whether there is a nearby bedrock source. Anomalous values on lower lines and along the logging road also warrant follow-up sampling and prospecting. Sampling of line 3+00 east should be carried out to look for upslope continuation of 174 ppb and 222 ppb gold anomalies on Line 2+00 east. The 662 ppb gold anomaly near the south end of Line 1+00 east is isolated by lack of sampling on this part of the adjacent lines 0 and 2 east. All anomalous areas on these lower lines should be checked for the possibility of glacially transported material derived from known hard rock gold sources (e.g. Moscena, Freegold) in the area.

Geophysics

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Ground magnetometer and VLF-electromagnetic surveys were completed over 9.5 line kilometers of the grid, readings at 20 meter stations.

The magnetometer survey was carried out with a Unimag GP-81 instrument. Results, corrected for diurnal variation, are plotted on Figure 6, from a relative base value of 55,000 gammas. There is little variation seen over a large part of the grid south of the baseline suggesting a generally uniform magnetic mineral content in the Sicker Group greenstones underlying this area; perhaps indicative of homogenization caused by prograde and retrograde metamorphism. A small area around and north of the baseline on lines 4 to 7 shows higher values and a greater range in values, probably indicating a change in the underlying rock types.

The VLF-electromagnetic survey was conducted using a SABRE geophysics EM 27 instrument and the Annapolis, Maryland radio transmitter. Unfiltered dip angle and relative field strength profiles are plotted in Figures 7 and 8. Both the dip angle and field strength data is generally quite flat; most changes seem related to effects of locally steep topography (slopes and local ridge crests) rather than to lithological changes.

DISCUSSION AND CONCLUSIONS

The target of exploration on the Freegold mineral claim is gold mineralization hosted by quartz veins, by comparison with known mineralization at the Freegold showing, discovered in the 1930's and developed between 1940 - 1942. The location of this showing is in a steep stream valley at an elevation of approximately 300 meters, about 600 meters north of the north boundary of the Stork Ventures property (at U.T.M. coordinates 028600), as shown by Caulfield and Ikona (1985). Note that the showing is plotted farther northeast in B.C.M.M. (1946) at U.T.M. coordinates 039607. The showing is reached by a steep flagged trail leading uphill from the logging road. Brownlee (1981) traced the vein for 50 meters to the northeast where it disappeared under overburden cover; the vein strikes 260° and is cut off on the southwest end by a fault striking 290°. The showing is located too far north to run into the Freegold mineral claim on a 260° strike, even without the effect of faulting. The direction and amount of movement on this fault (and other inferred parallel faults) is not known, although a strong vertical component seems likely.

Results of the 1988 ground geophysical surveys do not indicate any structural features which might be related to vein mineralization; results are strongly affected by rugged topography. A small number of potentially significant spot gold anomalies were identified by soil sampling and analysis; a minor amount of more detailed sampling and prospecting may be warranted in the area of several of the strongest soil gold values. At the present time, strong targets warranting more intensive exploration have not been identified. Π

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- Caulfield, D.A., and Ikona, C.K., 1985: Private Report for Royalon Petroleum Corp., by Pamicon Developments Ltd.
- Muller, J.E. and Carson, D.J.T., 1969: Geology and Mineral Deposits of Alberni Map Area (92F). Geological Survey of Canada Paper 68 - 50.

APPENDIX 1

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ANALYTICAL RESULTS - ROCK SAMPLES

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Geochemical Lab Report

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REPORT: V88-03773.0 PROJECT: STORK PAGE 1 SAMPLE EI FRENT Au 30g Âg NUMBER UNITS PP8 PPH R2 FG1201 <5 <8,1 R2 FG1202 <0.1 8 R2 FG1203 96 0,2 R2 FG1204 11 <0.1 R2 FG1205 41 0.1 R2 FG1206 87 6.6 R2 FG1207 115 **N.1** -

APPENDIX 2

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ANALYTICAL RESULTS - SOIL SAMPLES

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BONDAR-CLEGG

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Geochemical Lab Report

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Ľ	S1	L0+00E	3+{INS		30	10.0	·	0.1	S1 11+00	F 5+20S		31		8.11	<0.1	
	S1	10+00E	3+21IS		14	11.0		<0.1	S1 L1+N	ie S+411S		<5	11.0		<0.1	
	S1	L0+00E	3+411S		18	5.0		<0.1	S1 1+00	IF 5+60S		41	7.0		<0.1	
	S 1	1.0+00E	3+60S		14	2.0	11.0	<0.i	\$1 L1+01	IE 5+8NS		18	15.0		<0.1	
	\$1 	L0+00E	3+805		12	5.0		N.1	S1 L1+0(F 6+UOS		21	3.0	7.0	0.2	
Π	S1	L0+00E	4+00\$		27	9.0		0.2	S1 L1+D1	IE 6+20S		14	13.0		0.2	
-	S1	LN+ONE	4+2[1S		15	8.0		0.1	S1 L1+00	IF 6+411S		42	15.0		0.2	
	Si	1 0+ONE	4+4NS		13	1.0	13.0	0.2	S1 L1+01	ie 6+6NS		15	18.0		0.2	
7	S1	L0+00E	4+6NS		9	2.0	12.0	0.1	S1 L1+00	IF 6+80S		23	10.0		0.2	
1	S1	LO+00E	4+8NS		13		7.0	0.1	S1 L1+00	E 7+NNS		28	6.0		0.2	

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BONDAR-CLEGG

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Geochemical Lab Report

Π																
L	REI	PORT: VI	88-04109	2.0]			PROJ	FCT: STOR	ĸ	Pń	GE 2	
Π	SA	MPLE	1	ELEMENT	Au 3flg	Âu/אt	Au/wt	Ag	SAMPLE		ELEMENT	Au 30g	Au/wt	Au/wt	Aq	
U	NUI	MBER		UNITS	PPB	G	G	PPH	NUNDER		UNITS	PPB	G	G	PPH	
-	SI	L1+00E	7+20S		26	5.0		N.2	S1 L2+00E	N+40S		6	2.0		<u> </u>	
	S1	L1+00E	7+4NS		9	1.0	9.0	0.1	S1 12+00F	0+60S		9	4.0	12.0	0.2	
	S1	11+00E	7+60S		13	10.0		<0.1	S1 L2+00E	N+80S		18	5.0		<0.1	
	S1	L1+00F	7+8NS		56	5.0		<0.1	S1 L2+00F	1+00S		25	6.0		<0.1	
Π	51	L1+D0E	8+NNS		6	22.0		0.1	\$1 L2+ONE	1+4NS		16	3.1	8.0	<0.1	
	S1	L1+00E	8+2(IS	·	30	5.0		<0.1	\$1 L2+00F	1+605		7	8.0		<u>п.2</u>	•
Ħ	st	L1+00E	8+60\$		22	6.0		<0.1	S1 L2+00E	1+80S		14	1.0	6.0	<0.1	
	S1	L1+00E	8+8NS		20	15.0		<0.1	S1 L2+00F	2+00\$		25	6.8		0.1	
	\$1	L1+00E	9+NNS		<s.< td=""><td>13.0</td><td></td><td>0.2</td><td>S1 L2+NNE</td><td>2+205</td><td></td><td>17</td><td>7.0</td><td></td><td><0.1</td><td></td></s.<>	13.0		0.2	S1 L2+NNE	2+205		17	7.0		<0.1	
	S1	L1+00F	9+20S		<5	17.0		0.1	\$1 L2+00F	2+411S		43	2.0	28.0	0.2	
	<u>S1</u>	L1+00E	9+40S		295	17.0		<u> </u>	S1 L2+01E	2+6 N S		7	3.0	10.0	11.3	
	S1	L1+00E	9+6NS		18	1.0	8.0	N.1	S1 L2+U0F	2+805		11	2.0	10.0	0.1	
	S1	L1+00E	9+8NS		<5	14.0		, 0.2	\$1 L2+00E	3+00\$		174	10.0	1010	0.2	
	Sí	L1+00F	10+110S		<5	8.0		N.1	S1 12+UNF	3+10S		15		6,0	0.2	
<u> </u>	S1	L 1+ONE	10+205		<5	9.N		0.2	S1 L2+NNE	3+ ? NS		16	13.0		<0.1	
ſľ	\$1	L1+00F	10+608		<5	5.0		(1.2	S1 12+00F	3+4NS		7	3.0	17.0	<u> </u>	
L	\$1	L1+00E	10+80S		រោ	8.0		<0.1	S1 L2+NNE	3+60\$		15	8.0		0.1	
,	S1	L1+00F	11+00S		5	8.ព		0.2	S1 12+88F	3+8NS		15	6.0		<0.1	
Ñ	S1	L1+0NE	11+20\$		<5	5.0		8.2	S1 L2+ONE	4+NNS		26	7.0		n.2	
Ľ	\$1	(1+00F	11+411S		<5	8 ,N		<0.1	\$1 L2+00F	4+20S		8	2.0	28.0	<0.1	
 1	_ S1	11+00E	11+60S		<5	3.0	9.0	<0.1	S1 L2+DOE	4+6NS		12		10.0	<0.1	
	S1	l 1+00F	11+80S		8	5.0		<11.1	S1 2+00F	5+00\$		12	3.0	9.0	0.1	
إيسا	\$1	L1+00E	12+00S		5	13.N		<0.1	S1 L2+DNE	5+208		6D	4.1	26.0	0.2	
ز معطر	S1	L1+00F	12+2NS		10	5.0		<0.1	\$1 L 2+11(1F	5+60S		222	5.N		<0.1	
	- 51	L1+00E	12+4NS		8	3.0	13.0	<0.1	S1 L2+NNE	5+8NS		18	5.0		0.2	
.	Si	L1+00E	12+6NS		<5	3.0	14.0	<0.1	S1 12+UIIF	6+0.05		6	10.0		U.1	
Π	S1	1.1+00E	12+8/IS		9	18,0		1.2	S1 L2+ባበE	6+2NS		7	3.0	25.0	Q.1	
ŀ	Si	L1+00E	13+00S		10	5.0		Ü.3	\$1 L2+00F	6+6QS		10	3.0	12.0	<0.1	
	S1	L1+00E	13+2NS		8	12.0		<0.1	S1 L2+00E	6+8NS		19	2.0	15.0	N.1	
Π.		L1+UUE	13+40S		662	11.0		0.1	S1 L2+fIOF	7+00S		10	6.0		0.1	
Ľ	Si	L1+00E	13+6NS		<5	4.0	11.0	0.4	S1 L2+DDE	7+205		21	7.9		0.1	·
	S1	L1+00F	13+80S		<5	11.0		0.2	\$1 L2+00F	7+48\$		18	5.0		0.1	
	S1	L1+00E	14+0NS		16	5.0		Ŋ.1	S1 L2+00E	7+6NS		18	10.0		0.1	
	S1	L1+00E	14+2NS		5	11.0		<0.1	S1 12+00F	7+8NS		15	8.0		0.1	
	S1	L1+00E	14+4DS		28	6.0		< 0.1	S1 L2+ONE	8+00S		41	8.0		0.1	
-	S1	L1+ODE	14+6NS		12	5.0	_	<u>п.</u> 2	S1 L2+00F	8+2NS		18	10.0		0.1	_
_	S1	L1+00E	14+8NS		<5	16.0		ິນ.2	S1 L2+DNE	8+4NS		19	8.0		0.1	
	St	L1+00E	15+110\$		18	10.0		0.2	S1 L2+110F	8+6NS		30	5.0		<0.i	
	S1	8L 2+01	ne u+uus	:	8	9.0		Ω.4	S1 L2+NNE	8+8NS		3N	5.0		0.1	
	S1	L2+00F	N+2NS		16	9.0		R.4	S1 12+00F	9+005		15	10.0		<0.1	

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Geochemical Lab Report

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L	RE	PORT: VI	88-N41N9]		PF	ROJECT: STOR	ĸ	PA	3E 3
Π	SAL	IPLE	E	I FMFNT	Au 30g	Au/wt	Au/wt	Ag	SAMPL F	EI EMEN	NT Au 30g	Au/wt	Au/wt	Ag
L				UN115			6		NUNBER	UNI1	IS PPB	G	G	PPH
	S1	L2+00E	9+205	·	15	3.0	7.0	0.2	S1 L4+00F 4	+00\$	9	10.0		0.1
	51	12:000	9+4US		24	5.0		<0.1	S1 L4+DDE 4	+4DS	34	8.0		0.1
	01 01	12+000	770113 91800		12	15.0	•	<0.1	S1 L4+008 4	+6115	15	10.0		0.2
	. 51	12+000	10+003		15	0,0 3 П	70	(0,1	51 L4+HHC 5	1+6115 1 2010	18	113.U • n		<0.1
U								·····	JI [4+000 J		I.J	•.u		U.1
	S1	L2+00E	10+20S		21	10.0	•	0.1	S1 14+ANE 6	+008	14	11.0		<0.1
Π	-01 -01	12+000	10+4115		22 הכ	ອູປ ກາດ ດ		<0.1	S1 (4+HUF 6	+2115	10	12.0		0.2
U	51	12+000	10+805		15	40.0 4 B		1J.Z R 1	51 L4+IIIE 5	-1000 -1000	911	8,II 7 0		U.1
	S1	L2+00E	11+00S		6	10.0		0.2	S1 14+00F 7	≁uus '+28S	04 12	7.u 10.0		U.Z ZN 1
Π											цк	10,00		
U	S1	12+008	11+2NS		12	12.8		< <u>0.1</u>	S1 4+IIIIF 7	+4¶S	9	3.0	7.0	<0.1
_	S1	L2+UIE	11+40S		6	15.0		<0.1	S1 L4+NNE 7	'+6NS	18	2.0	8.0	0.1
Π	01	12+005	1140119		11	8.U 20.0		<11.1		+8115	<5	5.1		0.1
L	01 S1	L4+00C	127000 0+20M		7 20	Z0.1) Z 0		11.Z	ST L4+111E 8	+1105 +200	15	8,0		<0.1
			U - 21111			 .			51 [4+IIIIF 8	+205	18	10.0		<u.1< td=""></u.1<>
	S1	1.4+0NE	0+40N		30	5.0		N.2	S1 L4+NDE 8	+40S	15	4.0	6.0	U.2
[]'	S1	L4+00E	0+611N		17	7.0		0.1	S1 14+110F 8	+608	6	4.N	6.0	0.1
بىجۇ	51	14+005	U+80N		1/	/.11		0.1	S1 L4+NNE 8	\$+80S	6	4.0	6.0	0.2
	01 01	14+00	1+00N		0 45	3.U 10.0	12.0	<p.1< td=""><td>S1 [4+IIIF 9</td><td>+11(15</td><td>24</td><td>5.0</td><td></td><td>0.2</td></p.1<>	S1 [4+IIIF 9	+11(15	24	5.0		0.2
		24+00L	1 - 2 - 11		15	111.11			51 [4+1111] 7	+205	y	4,11 	6.U	<0.1
	S1	L4+00F	1+4NN		21	6.0		<0.1	S1 L4+UUF 9	+405	19	8.0		0.1
	51 04	14+000	1+6UN 1.00M		21	/,11	40.0	0.2	S1 L4+DNE 9	+60\$	15	10.0		0.1
	31 S1	144006	1+00N		13	4.U 2.0	10.0	<u.1 0.2</u.1 	51 L4+UNF 9	+8115	54	5.0		0.2
	S1	L4+00E	0+005		26	2.0	1910	0.2 20 1	51 L4+102 1 S1 15+005 0	1011112 101112	5/	311.U • n		<u.1< td=""></u.1<>
					·							•.u		NU.1
	<u>S1</u>	L4+00E	0+40S		13	4,1	10.0	0.1	S1 L5+NDE N	+40N	30	7.0		<11.1
	S1	14+008	0+605		7	24.0		<0.1	S1 L5+00F 0	+60N	11	13.0		J.1
\Box	51 04	14+000	8+805 1.000		27	9.0		<0.1	S1 L5+00E N	+80N	15	10.0		0.1
	01 S1	L4+00C ፈ+00C	1+11115 1+11115		12	15.U 47.0		<u.1< td=""><td>S1 15+00F 1</td><td>+UUN +20N</td><td>43</td><td>9.0</td><td></td><td>0.2</td></u.1<>	S1 15+00F 1	+UUN +20N	43	9.0		0.2
Ē								<u>, (ii, 1</u>	51 L5+IIIE 1	+2UN	10	12.0		0.2
Ľ	S1	L4+00E	2+005		33	10.0		a.1	S1 15+110F 1	+4NN	12	12.0		<0.1
	S1	L4+00E	2+205		6	20.0		Π.2	\$1 L5+DNE 1	+6NN	19	16.N		<0.i
	51		2+4115		12	18.0		0.1 17.1	St 15+00F 1	+811N	18	4.0	6.0	0.2
\Box	01 94	ւԳ+ԱՍԵ լչորը	2+6115		35	18.0		<0.1	S1 L5+NNE 2	+00N	122	18,N		<11.1
		C	2+0(15		1j 	20.0		U.2	51 5+00F ()	+2115	17	3.0	7.0	<0.1
Ţ	Si	L4+00E	3+NNS		7	21.0		0.1	S1 L5+NNE N	+4NS	12	10.0		<0.1
_	S1	L4+00F	3+20\$		34	16.0		N.1	\$1 1.5+(IOF A	+6NS	17	16.0		0.2
	51	L4+00E	3+4NS		58	13,0		0.1	S1 BL 6+NNE	N+2NN	18	38.8		0.5
7	51 04	14+005	3+6/15		11	14.0		0.2	S1 6+110F 0	+4(IN	13	30.0		0.1
]	31	L4+UUC	3+8115		18	10.0		<0.1	S1 L6+ANE N	+6NN	12	15.0		0.2

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Geochemical Lab Report

EGG	Geoch Lab

LJ REPORT: V88-0	4109.0						PROJ	FCT; STOR	₹K	PAC	SE 4
SAMPLE NUMBER	ELEMENT UNITS	Au 3Ng PPB	Au∕⊭t G	Au∕µt G	Ag PPM	Sanple Number	ELEMENT UNITS	Au 3Ng PPB	Au/st G	Au/wt G	Ag PPH
S1 L6+00E 1+F	ากพ	15	10.0		0.2	S1 R 9+20S	······	11	30.0		<0.1
S1 L6+00F 1+2	QN	16	15.0		<0.1	S1 R N+6NS		12	30.0		<0.1
S1 16+00E 1+4	ON	14	15.0		D.3	S1 R N+8NS		14	30.0		<0.1
S1 L6+D0F 1+6	ON	12	10.0		0.2	\$1 R 1+00\$		21	10.0		0.1
\$1 L6+UUE 1+8		84	5,Ŋ 		0.3	\$1 R 1+2NS		15	28.0		9.4
\$1 L6+00F 2+1	NN	12	10.0		0.4	S1 R 1+40S		14	13.0		0.4
- S1 L6+00E 2+2	:DN	15	8.0		N.2	S1 R 1+6NS .		12	30.0		11.2
\$1 L6+00E 2+4	NN	65	6.0		0.4	S1 R 1+80S		30	5.0		0.1
51 L6+00E 2+6	ญท	12	10.0		Ŋ.3	S1 R 2+00S		15	16.0		0.2
\$1 L6+00F D+0	กร	, 34	8 ,0		0.1	S1 R 2+28S		19	11.0		0.1
S1 L6+ONE 0+4	DS .	,21)	15.0		<u><</u> มี.1	S1 R 2+60S	·	37	12.0		0.2
\$1 L6+DOF 0+6	ດຣ	21	20.0		<0.1	S1 R 2+80S		22	12.0		0.3
S1 L7+0NF 0+6	Iñns	29	12.0		N.1	S1 R 3+20S		S4	5.0		0.2
S1 L7+00F 0+2	NN	42	5.0		0.2	S1 R 3+40S		27	4.0	6.0	0.1
S1 L7+00E 0+4	ÐN	9	10.0		<0.1	S1 R 3+60S		38	7.0		0.3
S1 L7+00E 0+6	<u>и</u> м	15	8,()		0,2	S1 R 3+80S		17	16.0		0.2
S1 L7+00E D+8	ION	20	6,0		Π.4	S1 R 4+00S		21	13.0		0.4
S1 L7+006 1+II	กท	18	10.0		0.2	S1 R 4+20S		36	10.0		0.2
S1 1.7+00E 1+2	'DN	30	15.0		0.1	Si R 4+40S		23	17.0		N.2
' \$1 L7+00E 1+4	กพ	16	15.0		<0.1	S1 R 4+60S		30	6.0		0.3
S1 L7+00E 1+6	ภพ	16	20.0		n.1	S1 R 4+80S		25	6.0		0.1
; S1 L7+00E 1+8	(IN)	50	6.0		0.3	S1 R 5+00S		30	5.0		0.2
' S1 L7+00E 2+F	กท	7	20.0		0.2	S1 R 5+20S		21	10.0		Π.1
S1 17+00E 2+4	NN	12	15.0		<0.1	S1 R 5+40S		17	12.0		0.4
S1 1.7+00E 2+6	-DN	11	19.N		<0.1	S1 R 5+60S		30	5.0		0.1
	ns	17	12.0		0.2	S1 R 5+80S	· · · · ·	34	7.0		11-2
🚽 S1 L7+00E D+4	ns	10	18.0		<0.1	S1 R 6+0/S		45	8.0		0.3
S1 L7+00F 0+6	NS	15	12.0		<0.1	S1 R 6+6/IS		21	16.N		0.2
- ^J S1 L7+ONE Q+8	ns	9	24.N		<0.1	S1 R 6+80S		69	10.0		0.1
S1 8L 0+50F		12	12.0		Ũ.2	S1 R 7+00S		30	8.N		0.1
S1 BL 1+50E		8	7.0		<u>η.2</u>	S1 R 7+20S	······································	211	<u></u>		<0.1
S1 8L 2+50F		10	12.0		N.2	S1 R 7+40S		12	15.0		0.3
- S1 8L 3+00E 0	+៣វាន	11	14.0		Π.2	S1 R 7+60S		17	14.0		0.3
S1 8L 3+50F 0	+08\$	19	8.0		0.1	S1 R 7+80S		18		10.9	R-5
S1 BL 4+5ЛЕ		19	8.0		N.2	S1 R 8+AAS		36	5.0	2.110	0.2
S1 8L 5+D0F		39	10.0		<u></u> በ.1	S1 8 8+20S		10	7.0		n.4
S1 BL SF50E 0	+2NN	16	20.0		ຄ.2	S1 R 8+68S		27	7 1 15	10.0	n.3
S1 8L 6+50F 0	+211N	23	14.1		Π_4	S1 R 9+28S		2, 20	7 N		8.2
- S1 550 H FROM	ROAD	45	8.0		11_2	S1 R 9+409		21	,.υ ζ Π	6 0	8.1
\$1 R 0+00\$		16	13.0		0.3	S1 R 11+20S		86	16.0	v.u	0.1
<u></u>				··							

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Geochemical Lab Report

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L	REPORT: V88-04	109.0					PROJ	ECT: STOR	ĸ	PAG	E 5	· · ·
	SAMPLE NUMBER	FIFNENT AU 30g UNITS PPB	Au/wt G	Au/wt. G	Ag PPN	sampi f Number	EI FMFNT UNITS	Au 3Ng PPB	Au/wt G	Au/wt G	Ag PPN	····.
ſ	S1 R 11+60S S1 R 11+80S	40 42	6.0 5.0	···· ,	0.4 0.4							
۴.,	S1 R 12+20S	27	9.0		0.3							
r	S1 R 13+20S 1 S1 R 13+40S	18 44	10.0 1.0	4 . N	9.2 N 1							
L						····		······································	·			
	S1 R 13+60S	20	9.0		0.4	······		<u></u>				·····
Г	SI R 15+605	311	2.11 12.0'	6.0	U.1 D /							
L	S1 R 14+20S	15	30.0		0.4 0.3							
_	S1 R 14+40S	12	20.0		0.4							
[45.0									
L.	51 K 14+605 S1 R 14+80S	14	15.0		0.3 n.4							
-	S1 R 15+00S	21	10.0		0.1							
	S1 R 15+20S	150	3.0	7.0	0.3							
۲.	S1 R 15+40S	18	17.0		0.3							
Γ	S1 R 15+60S	35	6.0		0.2		······································					<u> </u>
L	S1 R 15+80S	22	8.0		0.2							
~	· S1 R 16+00S	43	7.0		0.3							
[SI R 16+205	21	3,0 10 0	7.0	0.3							
L	1 01 W 10+402				U.4							. .
	S1 R 16+60S	42	5.0	-	0.5							
	S1 R 16+80S	58	13.0		0.1							
	1 51 K 17+005 1 S1 R 17+20S	12	23.U 9 N		U.2 n 2							
	S1 R 17+40S	38	7.0		0,Z N.4							
	1 			·	·	·····	······································					•
	S1 R 17+60S	50	6.0		0.1							
Γ	S1 R 18+005	40 19	6.0 14 fi		U.1 D 1							
	S1 R 18+20S	21	14.0		0.1 0.1							
	S1 R 18+40S	11	13.0		0.1							
	C1 D 10./00	41*	/ 0	(0	0 7		·····					
	S1 R 18+80S	15 54	4.U 201	6.U	U.J 11 2							
_	S1 R 19+40S	<5	2.5		0.2							
	S1 R 19+60S	12	2.0	8.0	0.4							
ل ـــا	S1 R 19+80S	12	3.0	7.0	0.2							
η	S1 R 20+005	10	12.0		N.2						· · · · · · · · · · · · · · · · · · ·	·····

APPENDIX 3

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STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

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Personnel R. Robertson (Geologist); 5 days @ \$400 D. Fennings (Party chief); 14 days @ \$175 G. Mackenzie (Geophysics operator); 13 days @ \$150 D. Detels (Geophysics, sampling); 14 days @ \$150 B. Vertone (Sampling); 13 days @ \$125	\$ 2,000.00 2,450.00 1,950.00 2,100.00 <u>1,625.00</u> 10,125.00
Analytical Costs Bonder-Clegg Ltd., North Vancouver: 7 rock samples (Au, Ag) @ \$15.00 356 soil samples (Au, Ag) @ \$12.25	105.00 <u>4,361.00</u>
Estimated Rental Unimag GP-81 and Sabre EM-27 @ \$275.00/wk (2 wks)	4,468.00 550.00 550.00
Transportation Truck rentals and fuel Boat rentals (2 weeks) Float plane charters Ferries	554.00 500.00 70.00 <u>116.50</u> 1,240.50
Food, Accommodation, Supplies, Etc. 59 man days @ \$35.00 Equipment and supplies	2,065.00
Report and Map Preparation R. Robertson: 3½ days Drafting Secretarial, printing, etc.	1,400.00 1,100.00 550.00
TOTAL EXPENDITURES	<u>3,050.00</u> <u>\$21,796.50</u>

APPENDIX 4

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STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Ronald C.R. Robertson, hereby certify:

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That I am a self-employed consulting geologist with business address at Box 5474, Whitehorse, Yukon and 708 - 1155 West Pender Street, Vancouver, British Columbia;

That I was employed by Tymar Management to examine the Freegold mineral claim of Stork Ventures Ltd. and that I visited the property from May 10 - 14, 1988 while the geophysical and geochemical surveys were in progress;

That I obtained a Bachelor of Science degree with First Class Honours in Geology from the University of Aberdeen, Scotland, in 1970 and subsequently carried out graduate studies in economic geology at McMaster University, Hamilton, Ontario, and at Queen's University, Kingston, Ontario;

That I have been engaged in mineral exploration for eighteen (18) years of which ten (10) have been on programs in the Yukon Territory, British Columbia and Alaska;

That I am a fellow of the Geological Association of Canada (Number F4858) and a member of the Society of Economic Geologists, the B.C. - Yukon Chamber of Mines and the Canadian Institute of Mining and Metallurgy.

Dated at Vancouver, B.C., this 30th day of June, 1988.

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Ronald C.R. Robertson, F.G.A.C.



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Í Í	CLAIM BOUNDARY
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	FLOWING CREEK
	DRY CREEK
1	SCARP
	GEOLOGICAL BRANCH ASSESSMENT REPORT
	17,722
	SCALE 1:4000 0 40 80 120 160 200 400 METRES
	STORK VENTURES LTD.
	FREEGOLD CLAIM
	Robertson Wallis and Associates FIGURE
	TECHNICAL/DRAFTING DATE: RR; GT JUNE 1988
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STATION USED — ANNAPOLIS, MD. OPERATOR FACING EAST







	Legend
	CLAIM BOUNDARY
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GEOLOGIC ASSESSME	ALBRANCH NTREPORTORY CREEK
	SCARP
	EDGE OF LOGGED AREA
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	TOTAL FIELD INTENSITY VALUES IN GAMMAS. RELATIVE BASE VALUE FOR GRID = 55,000 GAMMAS.
: : :	
	SCALE I: 4000 0 40 80 120 160 200 400 METRES
:	STORK VENTURES LTD.
	FREEGOLD CLAIM
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:	MAGNETOMETER SURVEY
:	
:	Robertson Wallis and Associates FIGURE
	TECHNICAL/DRAFTINGDATE:6GM,RR;GTJUNE 1988