REPORT ON THE AIRBORNE GEOPHYSICAL SURVEY -VOLUME 1 OF 2

GIANT COPPER, RED GOLD AND SHIKO LAKE PROPERTIES **BRITISH COLUMBIA**

FOR

IMPERIAL METALS CORPORATION

COMPILED BY

P. MCANDLESS #420 - 355 Burrard Street Vancouver, B.C. V6C 2G8 Tel: (604) 669-8959 Fax: (604) 687-4030

TWO VOLUME SET

VOLUME 1 **REPORT AND MAPS FOR REDGOLD/SHIKO LAKE PROPERTIES** VOLUME 2 MAPS FOR GIANT COPPER PROPERTY

> GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT

GEOLOGICAL SURVEY BRANCH ASSESSMENT REFORTS

> DATE RECEIVED AUG 2 7 1996



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Section D (Work Completed)

Report on the Airborne Geophysical Survey Giant Copper & Red Gold/Shiko Lake Properties B.C. Data Acquisition & Processing Prepared for Imperial Metals Corporation by Scintrex Limited June 1996

NM/cmp

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List of Maps for RedGold/Shiko Lake Properties

- B&W 1:10000 TMI Blackline Contour
- B&W 1:10000 EM Anomaly
- Colour 1:10000 VLF Contour
- Colour 1:10000 TMI RTP Contour
- Colour 1:20000 TMI Contour
- Colour 1:10000 Apparent resistivity @ 930 Hz
- Colour 1:10000 Apparent resistivity @ 4170 Hz
- Colour 1:10000 TMI 1st Vertical Deviation

- I, Patrick McAndless of the City of Richmond certify the following:
- 1. I graduated from the University of British Columbia in 1970 with a B.Sc. Geology.
- 2. I am a member in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
- 3. I supervised the work described as Vice-President, Explorations of Imperial Metals Corporation.

Dated this 21st day of August 1996 in the City of Vancouver, B.C.

P. McAndless

STATEMENT OF COSTS

Salaries

Crew Chief (Dave Hayward)	\$ 3,500.00
Systems Operator (D. Jamakosmanovic)	3,500.00
Geophysicist (J. Currie)	3,500.00
	\$10,500.00
Mobilization	\$9,000.00
Survey Charges	
1,147.70 line kilometres @ 78.50	\$90,094.45
Report Preparation	\$1,200.00
Total	\$110,794.45
Cost Allocation	
Red Gold	\$25,140.62
Shiko Lake	\$18,206.03
Giant Copper	<u>\$67,447.80</u>
Total	<u>\$110,794.45</u>

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Section 'A'

REDGOLD PROPERTY

Mineral Tenure

The Redgold property consists of the Shik 1 through 7 minerals claims plus the RG 1 minerals claim. The Shik 1 through 7 claims are the modified grid type that were located between May 1982 and December 1989. RG 1 is a two post claim located in May 1994 to cover a singular internal fraction. The claims total 110 units and extend over an area of approximately 2500 hectares.

Location

The Redgold property is located in the Cariboo Region of British Columbia approximately 60 kilometers northeast of the city of Williams Lake. The property is located on NTS map sheets 93A/5 and 6 and is centered at latitude 52 28 N and longitude 121 28 W. Access to the claims is achieved by traveling to the village of Horsefly on a paved highway and then continuing on to the property on an all weather gravel logging road. The claims occur in a low elevation forested rolling terrrane dominated by interior Douglas fir,, cedar and pine. Much of the claim group has been clear-cut logged within the last 15 years. Soils developed on the claims are derived from clay rich glacial till materials that have been shown by drill testing to be at least as deep as 14 meters over parts of the property. Low lying areas are commonly swampy. Good exposures of outcrop are limited to the tops of hills.

History

Interest in the vicinity of the Redgold property was first noted following the release of aeromagnetic sheet number 5239G in 1968. This survey outlined a prominent circular magnetic high in the central region of the property. A similar feature 20 kilometers to the northwest on the adjacent sheet had previously resulted in the discovery of the Cariboo Bell (Mount Polley) deposit. The area of the present Shik claims were staked following this release but no information is available concerning this most early work.

The initial claims lapsed and the area of the present claim group was restaked in 1972 by Fox Geological Consultants of Kamloops on behalf of the Cariboo Syndicate (Dome Mines Canada and Newconex). The Cariboo Syndicate continued to work on this property until 1980. Work completed by the Syndicate included mapping, 16 kilometers of IP surveying, bulldozer trenching, and 7 short percussion drill holes (280 meters).

In 1980 the property then called the "SL" claims was old to a VSE company called Terramar Resource Corporation. Terramar completed three short diamond drill holes in the syenite core of the complex before abandoning the eastern side of the property in 1982 and the western side in 1989.

In 1982 Messrs. Morton and Durfeld staked the Shik 1 and 2 claims which constitute the eastern region of the present property. The western portion of the present claim group was staked in December 1989 following the final abandonment by Terramar.

In 1989 the present property was optioned to Phelps Dodge Corporation of Canada. Phelps Dodge continued with the option until January 1992 at which time the property was returned to Messrs. Morton and Durfeld. Phelps Dodge completed 66 kilometers of grid and geochemical survey, mapped the grid area, completed 37 kilometers of induced polarization survey and drilled 17 diamond drill holes totaling 1997 meters. Drilling was clustered in several areas and was predominantly in the central regions of very strong chargeability responses.

In 1993 Messrs. Morton and Durfeld leased a small area of the property to Quarry Pacific Industries Ltd. Mineralized syenitic and monzonitic rocks were exposed in an excavation completed in 1993. The mineralization is manifested as malachite stained fractures and disseminated bornite (and minor chalcopyrite) under a shallow leached and bleached surface layer (less than 1 meter deep). The excavation is located at the very southern edge of the gridded area beyond the limits of historic drilling.

Regional Geology

The Redgold Property is situated in the center of a crudely symmetrical northwest trending belt of Mesozoic volcanic rocks formerly referred to as the Quesnel Trough and more recently referred to as the Quesnel Terrane. The central axis of this belt is composed of trachytic (felsic) breccias (largely autobreccias) which are flanked to the east and west by mafic volcanic units and these in turn by Flyschoid Sediments. A linear sequence of dioritic intrusives that occurs along the central trace of this feature is believed to represent the comagmatic eruptive center of the trachytic volcanics. These stocks, which in fact vary in composition from gabbro to syenite, are spatially associated with porphyry style or porphyry related copper and or gold mineralization. Regional examples of economically significant mineralization include The Mount Polley (Cariboo Bell) copper-gold deposit located 20 kilometers to the northwest and the Quesnel River (QR) gold deposit located 32 kilometers to the northwest. The QR deposit is currently being placed into production.

Property Geology

The zoned dioritic Shiko stock with minimum dimension of approximately 1 by 1.5 kilometers is both spatially and significantly central to the Redgold (Shik) claim group. A large associated sulphide system is evidenced by a very strong induced polarization response and an extensive area of hornfelsing developed in volcanic and clastic lithologies outbound from the stock. Calc-silicate minerals including andradite garnet and diopside occurred in the hornfelsed (skarned) zone indicating an active versus passive emplacement of the stock. Still more extensive than the calc-silicate zone is a more outbound propylitic envelope best developed in the mafic volcanic sequence. This propylitic alteration has resulted in a high proportion of secondary carbonate, pyrite and epidote being developed in what is essentially a retrograde alteration zone. The propylitic zone may be important to the more gold dominant mineralization which occurs in the area in the vicinity of hole 91-20 where 15 metres grading 0.15% Cu and 815 ppb Au were intersected (extreme SE corner of grid).

CLAIM NAME	RECORD #	CLAIM SI	EXPIRY DTE
SHIK 1	204603	16 UN	1998/05/31
SHIK 2 SHIK 3	204604 206667	12 UN 16 UN	1998/06/01
SHIK 4	206668 206669	12 UN 15 UN	1998/12/01
SHIK 6	206670	20 UN	1998/12/01
SHIK 7 RG #1	206671 325558	18 UN 1 UN	1997/11/30 1998/05/22
	Total	110*	

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SerTION B'

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SHIKO LAKE PROPERTY

Mineral Tenure

The Shiko Lake property consists of the Bruski 1 and 2, Bru 1 through 3, Ski 1 and 2 mineral claims. The claims are modifed grid type located between February 1996 and April 1996. The claims total 108 units.

Location

The Shiko Lake property is located in the Cariboo Region of Britisnh Columbia approxiamtely 60 kilometers northeast of the city of Williams Lake. The property is located on NTS maps sheet 93A/6 and centred at latitute 52 26 N amd 121 25 W. Access to the claims is achieved by travelling to the village of Horsefly on a paved highway and then continuing on to the property on an all weather gravel logging road.

History

Interest in the vicinity of the Shiko Lake property was first noted following the release of aeromagnetic sheet number 5239G in 1968. This survey outlined a prominent circular magnetic high in the central region of the property. A similar feature 20 kilometers to the northwest on the adjacent sheet had previously resulted in the discovery of the Cariboo Bell (Mount Polley) deposit. No information is available concerning this most early work..

Regional Geology

The Shiko Lake Property is situated in the center of a crudely symmetrical northwest trending belt of Mesozoic volcanic rocks formerly referred to as the Quesnel Trough and more recently referred to as the Quesnel Terrane. The central axis of this belt is composed of trachytic (felsic) breccias (largely autobreccias) which are flanked to the east and west by mafic volcanic units and these in turn by Flyschoid Sediments. A linear sequence of dioritic intrusives that occurs along the central trace of this feature is believed to represent the comagmatic eruptive center of the trachytic volcanics. These stocks, which in fact vary in composition from gabbro to syenite, are spatially associated with porphyry style or porphyry related copper and or gold mineralization. Regional examples of economically significant mineralization include The Mount Polley (Cariboo Bell) copper-gold deposit located 20 kilometers to the northwest and the Quesnel River (QR) gold deposit located 32 kilometers to the northwest. The QR deposit is currently being placed into production.

Property Geology

The zoned dioritic Shiko stock with minimum dimension of approximately 1 by 1.5 kilometers is both spatially and significantly central to the Redgold (Shik) claim group. A large associated sulphide system is evidenced by a very strong induced polarization response and an extensive area of hornfelsing developed in volcanic and clastic lithologies outbound from the stock. Calc-silicate minerals including andradite garnet and diopside occurred in the hornfelsed (skarned) zone indicating an active versus

passive emplacement of the stock. Still more extensive than the calc-silicate zone is a more outbound propylitic envelope best developed in the mafic volcanic sequence. This propylitic alteration has resulted in a high proportion of secondary carbonate, pyrite and epidote being developed in what is essentially a retrograde alteration zone. The propylitic zone may be important to the more gold dominant mineralization which occurs in the area in the vicinity of hole 91-20 where 15 metres grading 0.15% Cu and 815 ppb Au were intersected (extreme SE corner of grid).

PROJ NAME : SHIKO LAKE

CLAIM NAME	RECORD #	CLAIM SI	EXPIRY DTE
BRUSKI 1	345430	6 UN	1997/04/28
BRUSKI 2	345431	20 UN	1997/05/01
BRU 1	343657	4 UN	1997/02/24
BRU 2	343658	20 UN	1997/02/25
BRU 3	343659	20 UN	1997/02/25
SKI 1	343660	18 UN	1997/02/28
SKI 2	343661	20 UN	1997/02/28
	Total	108*	

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SECTION 'C'

GIANT COPPER PROPERTY

Mineral Tenure

A total of 163 located claims (195) units and eight Crown Granted claims comprised the property. All the claims are located within the New Westminster Mining Division.

Location

The Giant Copper property lies approximately 43 km southeast of Hope and is bounded on the northeast by Manning Park and to the southwest by the Skagit Valley Recreational Area. On the South side of Highway No. 3 a gravel road branches off positioned across the road just past a small bridge crossing the Skagit river. From the highway to the No. 15 level workings is approximately 9 km along a good gravel road.

The property lies between elevations 1,310 meters and 1,980 meters above sea level, on the west and southeast slope of Silverdaisy Mountain.

History

The Giant Copper was acquired by Bethlehem Resources Corporation (now amalgamated with and under the name Imperial Metals Corporation) from Campbell Resources in the spring of 1988 in exchange for a small retained interest in the property.

A number of deposit types are hosted within the property boundary. Previous exploration has concentrated on two main zones, the AM and the Invermay. These zones are breccia hosted copper-gold-silver and silver-lead-zinc-copper shear zone occurrences, respectively.

Published reserves on the AM breccia are approximately 2,700,000 tons at 1.35% Cu, 0.015 oz/ton Au and 0.64 oz/ton Ag. No reserve figures are available for the Invermay zone.

Regional Geology

A belt up to several km wide of steeply dipping and tightly folded metasedimentary rocks of the Jurassic Dewdney Creek Group forms a structural block between the northwesterly trending Hozameen and Pasayten thrust faults, along both of which older rocks are thrust from the west over younger rocks to the east. The Hozameen Fault separates rocks of the Dewdney Creek Group of Jurassic age from Carboniferous argillite, slate, and phyllite of the Hozameen Group to the west. The chuwanten (or Pasayten Fault) separates rocks of the Dewdney Creek Group from the Cretaceous arkose, siltstone, argillite and conglomerate of the Pasayten Group to the east. The Giant Copper property is near the western side of this block of rocks of the Dewdney Creek Group.

Property Geology

Sedimentary rocks of the Dewdney Creek Group have been intruded by abundant, mainly mafic to locally ultramafic sills of uncertain age, probably Jurassic/Cretaceous. Most of the sills are conformable to bedding and were folded with the sedimentary rocks.

The Invermay Stock, an elongate diorite to quartz diorite to locally granodiorite body of Cretaceous or Tertiary age was intruded into the older rocks, more or less along the northwest trending anticline axis seen within sediments at the southeast corner of the property. Associated synclinal structures occur on the northeast and southwest extremities of the property. Liberal interpretation of the lineaments surrounding the Invermay Stock indicate a roughly radiating set of faults. These were probably created during the magma chamber rising through the overlying sediments. There is also a strong northeast lineament trend throughout the property which appear to be preferential sites for deposits of silver, lead, zinc quartz vein mineralization, such as the Invermy workings.

Zones of potential economic interest include replacement bodies, breccia pipes and veins, almost all of which are near the contact of the metasedimentary rocks with the quartz diorite Invermy Stock and which have been considered historically to have been related in origin to the intrusive body.,

The Giant Fault, a major northeast-trending fault evident in the No. 10 underground workings, possibly truncates the south end of the AM Breccia and may offset it up to 1000meters to the northeast to the site of the No. 1 Anomaly, located close to the No. 10 level portal.

LAND FACTS

GIANT COPPER

DATE REVISED: JAN 21, 1994					
CLAIMS:	171*	UNITS	5: 195	AREA(ha):	
CLAIM	TENURE	UNITS	AREA(ha)	RECORD DATE	EXPIRY DATE
A.M. A.M. 1 A.M. 2 A.M. 3 A.M. 4	L-1586 L-1579 L-1587 L-1577 L-1584	CG CG CG CG CG	19.45 19.46 11.23 16.34 20.51	FEB 02/40** NOV 02/77** JAN 02/40** JAN 02/40** JAN 02/40**	N/A N/A N/A N/A N/A
A.M. 5 AUGUSTUS5 REX 1 FR AXE 2 AXE 10 FR	L-1581 L-1585 L-1595 236816 236817	CG CG CG 1 1	17.83 2.63 6.75 20.9 20.9	NOV 02/77** JAN 02/40** NOV 02/77** OCT 13/71 OCT 13/71	N/A N/A N/A OCT 13/2000 OCT 13/2000
BARB 3 BARB 4 BROWN 1 BROWN 2 BROWN 3	236732 236731 236528 236529 236530	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	DEC 17/69 DEC 17/69 SEP 01/54 SEP 01/54 SEP 01/54	DEC 17/2000 DEC 17/2000 SEP 01/99 SEP 01/99 SEP 01/99
BROWN 4 CAMBORNE1 CAMBORNE2 CANAM 1FR CANAM 2	236531 236526 236527 235769 235773	1 1 1 16	20.9 20.9 20.9 25 400	SEP 01/54 FEB 24/54 FEB 24/54 SEP 29/88 ² OCT 01/88 ²	SEP 01/99 FEB 24/99 FEB 24/2000 SEP 29/2000 OCT 01/2000
CANAM 3 CANAM 4FR GC 35 GC 36 GC 37	235772 235771 236695 236743 236696	16 1 1 1 1	400 25 20.9 20.9 20.9	OCT 01/88 ² OCT 01/88 ² AUG 01/69 DEC 08/69 MAY 27/69	OCT 01/2000 OCT 01/2000 AUG 01/2000 DEC 08/2000 MAY 27/2000
GC 38 GC 39 GC 40 GC 41 GC 42	236697 236698 236699 236744 236700	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	AUG 01/69 AUG 01/69 MAY 27/69 DEC 08/69 MAY 27/69	AUG 01/2000 AUG 01/2000 MAY 27/2000 DEC 08/2000 MAY 27/2000
GC 43 GC 44 GC 45 GC 46 GC 47	236701 236745 236746 236702 236747	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	MAY 27/69 DEC 08/69 DEC 08/69 MAY 27/69 DEC 08/69	MAY 27/2000 DEC 08/99 DEC 08/99 MAY 27/99 DEC 08/99
GC 48 GC 49 GC 50 GC 51 GC 52	236703 236704 236705 236706 236711	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	MAY 27/69 MAY 27/69 MAY 27/69 MAY 27/69 OCT 08/69	MAY 27/99 MAY 27/99 MAY 27/99 MAY 27/99 OCT 08/99

*INCLUDES 8 CROWN GRANTS **DATE OF CERTIFICATE OF TITLE ²LOCATION DATE

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DATE REV	DATE REVISED: JAN 21, 1994						
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CLAIM	TENURE	UNITS	AREA(ha)	RECORD DATE	EXPIRY DATE		
GC 53 GC 54 GC 55 GC 56 GC 57	236712 236713 236714 236715 236715	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	OCT 08/69 OCT 08/69 OCT 08/69 OCT 08/69 OCT 08/69	OCT 08/99 OCT 08/99 OCT 08/99 OCT 08/99 OCT 08/2000		
GC 58 GC 59 GC 60 GC 61 GC 62	236717 236718 236719 236720 236721	1 1 1 1	20.9 20.9 20.9 20.9 20.9	OCT 08/69 OCT 08/69 OCT 08/69 OCT 08/69 OCT 08/69	OCT 08/2000 OCT 08/2000 OCT 08/2000 OCT 08/2000 OCT 08/2000		
GC 63 GC 64 GC 65 GC 66 GC 67	236722 236723 236724 236725 236725	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9	OCT 08/69 OCT 08/69 OCT 08/69 OCT 08/69 OCT 08/69	OCT 08/2000 OCT 08/2000 OCT 08/2000 OCT 08/2000 OCT 08/2000		
GC 68 GE 1 GE 2 GE 3 GE 3 FR	236727 236590 236591 236592 236655	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	OCT 08/69 OCT 09/64 OCT 09/64 OCT 09/64 MAY 10/68	OCT 08/2000 OCT 09/2000 OCT 09/2000 OCT 09/2000 MAY 10/2000		
GE 4 GE 5 GE 6 GE 7 GE 8	236593 236594 236595 236595 236596 236597	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	OCT 09/64 OCT 09/64 OCT 09/64 OCT 09/64 OCT 09/64	OCT 09/2000 OCT 09/2000 OCT 09/2000 OCT 09/2000 OCT 09/2000		
GE 9 GE 10 GE 11 GE 12 - GM 27	236651 236652 236653 236654 236645	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	MAY 10/68 MAY 10/68 MAY 10/68 MAY 10/68 MAY 10/68	MAY 10/2000 MAY 10/2000 MAY 10/2000 MAY 10/2000 MAY 10/2000		
- GM 28 - GM 29 - GM 30 GM 31 GM 32	236646 236647 236648 236649 236650	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	MAY 10/68 MAY 10/68 MAY 10/68 MAY 10/68 MAY 10/68	MAY 10/2000 MAY 10/2000 MAY 10/2000 MAY 10/2000 MAY 10/2000		
HANK 1FR HANK 2 HANK 4 HANK 5 HANK 6	236748 236749 236750 236504 236751	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	DEC 08/69 DEC 08/69 DEC 08/69 JUN 21/43 DEC 08/69	DEC 08/2000 DEC 08/2000 DEC 08/2000 JUN 21/2000 DEC 08/2000		

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	IP 1 FR IP 2 FR IP 4 FR IP 5 FR IP 6 FR	236733 236734 235428 236735 236735	1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	DEC 08/69 DEC 08/69 SEP 24/80 DEC 08/69 DEC 08/69	DEC 08/2000 DEC 08/2000 SEP 24/2000 DEC 08/2000 DEC 08/2000	
	IP 7 FR IP 8 FR IP 9 FR JET 1 FR JET 2 FR	236737 236738 236739 236537 236754	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	DEC 08/69 DEC 08/69 DEC 08/69 DEC 19/58 DEC 08/69	DEC 08/2000 DEC 08/2000 DEC 08/2000 DEC 19/99 DEC 08/2000	
1111	JOHN 1 JOHN 2 JOHN 3 JOHN 4 LESLIE	235417 235418 235419 235420 236639	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	DEC 12/79 DEC 12/79 DEC 12/79 DEC 12/79 JUN 13/67	DEC 12/2000 DEC 12/2000 DEC 12/2000 DEC 12/2000 JUN 13/99	
•	LESLIE 1 LESLIE 2 LESLIE 3 LOIS FR LOIS 1	236640 236641 236642 236625 236625	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	JUN 13/67 JUN 13/67 JUN 13/67 JUN 02/67 JUN 02/67	JUN 13/99 JUN 13/99 JUN 13/99 JUN 02/99 JUN 02/99	
	LOIS 2 LOIS 3 LOIS 4 LOIS 5 LOIS 6	236627 236628 236629 236630 236631	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	JUN 02/67 JUN 02/67 JUN 02/67 JUN 02/67 JUN 02/67	JUN 02/99 JUN 02/99 JUN 02/99 JUN 02/99 JUN 02/99	
	LOIS 7FR LOIS 8 LOIS 9 LOIS 10 LOIS 11	236730 236632 236633 236634 236635		20.9 20.9 20.9 20.9 20.9 20.9	NOV 07/69 JUN 02/67 JUN 02/67 JUN 02/67 JUN 02/67	NOV 07/99 JUN 02/99 JUN 02/99 JUN 02/99 JUN 02/99	
	LOIS 12 LOIS 13 LOIS 14 LORNA FR MAY FR	236636 236637 236638 236729 236753		20.9 20.9 20.9 20.9 20.9 20.9	JUN 02/67 JUN 02/67 JUN 02/67 NOV 07/69 DEC 08/69	JUN 02/99 JUN 02/99 JUN 02/99 NOV 07/99 DEC 08/99	

***INCLUDES 8 CROWN GRANTS**

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DATE REVISED: JAN 21, 1994						
CLAIMS:	171*	UNITS	5: 195	AREA(ha):		
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MAY 1 MAY 2 MAY 3 MAY 4 MAY 5 MAY 6	236514 236515 236516 236517 236518 236519	1 1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	FEB 09/54 FEB 09/54 FEB 09/54 FEB 09/54 FEB 09/54 FEB 09/54	FEB 09/99 FEB 09/99 FEB 09/99 FEB 09/99 FEB 09/99 FEB 09/99	
MAY 7 MAY 8 MAY 9 MAY 10 MAY 11	236520 236521 236522 236523 236523 236524	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9	FEB 09/54 FEB 09/54 FEB 09/54 FEB 09/54 FEB 09/54	FEB 09/99 FEB 09/99 FEB 09/99 FEB 09/99 FEB 09/99	
MAY 16 26MILEFR MISTY MISTY 1 MISTY 2	236532 236728 236510 236511 236512	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	SEP 15/55 NOV 07/69 APR 15/53 APR 15/53 APR 15/53	SEP 15/99 NOV 07/99 APR 15/99 APR 15/99 APR 15/99	
MISTY 3 PEG 1 PEG 2 RAN RAN FR	236513 236709 236710 235414 235415	1 1 1 3 1	20.9 20.9 20.9 62.7 20.9	APR 15/53 OCT 08/69 OCT 08/69 SEP 21/79 SEP 21/79	APR 15/99 OCT 08/99 OCT 08/99 SEP 21/2000 SEP 21/2000	
RED 1 RED 2 RED 3 RED 4 REX 11	236533 236534 236535 236536 236536 236776	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	DEC 19/58 DEC 19/58 DEC 19/58 DEC 19/58 JUN 12/70	DEC 19/2000 DEC 19/2000 DEC 19/2000 DEC 19/2000 JUN 12/2000	
REX 12 REX 13 REX 14 REX 15 REX 16	236777 236778 236779 236780 236781	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	JUN 12/70 JUN 12/70 JUN 12/70 JUN 12/70 JUN 12/70	JUN 12/2000 JUN 12/2000 JUN 12/2000 JUN 12/2000 JUN 12/2000	
REX 17 REX 18 REX 19 REX 20 REX 21	236782 236783 236784 236785 236785	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	JUN 12/70 JUN 12/70 JUN 12/70 JUN 12/70 JUN 12/70	JUN 12/2000 JUN 12/2000 JUN 12/2000 JUN 12/2000 JUN 12/2000	
REX 22 REX 22FR RIDGE1FR RIDGE2FR RIDGE3FR	236787 236815 236740 236741 236742	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	JUN 12/70 SEP 23/71 DEC 08/69 DEC 08/69 DEC 08/69	JUN 12/2000 SEP 23/99 DEC 08/99 DEC 08/99 DEC 08/99	

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DATE REVISED: JAN 21, 1994						
CLAIMS:	171*	UNITS	5: 195	AREA(ha):		
CLAIM	TENURE	UNITS	AREA(ha)	RECORD DATE	EXPIRY DATE	
SABRE 1 SLIDE FR VERNON 1 VERNON 2 VERNON 3	236538 235426 236496 236497 236498	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	DEC 19/58 SEP 02/80 JUN 21/43 JUN 21/43 JUN 21/43	DEC 19/2000 SEP 02/2000 JUN 21/99 JUN 21/99 JUN 21/2000	
VERNON 4 VERNON 5 VERNON 6 VERNON 7 VERNON 8	236499 236500 236501 236502 236503	1 1 1 1 1	20.9 20.9 20.9 20.9 20.9 20.9	JUN 21/43 JUN 21/43 JUN 21/43 JUN 21/43 JUN 21/43	JUN 21/2000 JUN 21/99 JUN 21/99 JUN 21/99 JUN 21/99 JUN 21/99	

*INCLUDES 8 CROWN GRANTS



SECTION D

REPORT ON THE AIRBORNE GEOPHYSICAL SURVEY GIANT COPPER & SHIKO LAKE PROPERTIES, BRITISH COLUMBIA

DATA ACQUISITION & PROCESSING

for

Imperial Metals Corporation

by

SCINTREX LIMITED

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June, 1996

AIRBORNE GEOPHYSICAL SURVEY IN BRITISH COLUMBIA

FINAL REPORT

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IMPERIAL METALS CORPORATION

IMPERIAL METALS CORPORATION

AIRBORNE GEOPHYSICAL SURVEY IN BRITISH COLUMBIA GIANT COPPER & SHIKO LAKE PROPERTIES

FINAL REPORT

ABSTRACT

During the period of time from April 20 until May 12, 1996, Scintrex carried out two multi-sensor high-resolution airborne geophysical surveys for Imperial Metals Corporation in British Columbia. The properties surveyed were designated as the Giant Copper property, near Hope, and the Shiko Lake property, near Horsefly.

The survey was part of a service contract signed with **Imperial Metals Corporation**, of Vancouver, British Columbia, to survey their exploration concessions totaling approximately 107.4 km² for these regions. A total of 1147.7 line-km of geophysical data with about 34.9 helicopter flying hours were expended.

Data processing involved the data compilation, gridding and contouring of the geophysical data collected, using the processing center at Scintrex Limited, Toronto. EM anomaly identification was undertaken using a semi-automated process for picking and determination of the conductance using the response from a vertical plate model in free space with 300 X 600 m dimensions. σ^2

The processed survey results have been presented as 7 maps for the survey areas at the scale of 1:10,000; total magnetic intensity, total magnetic intensity reduced to pole, first vertical derivative of total magnetic intensity, electromagnetic anomaly symbol map using two frequencies (Cx-875 Hz and Cx- 4800 Hz), apparent resistivity for Cp-930 Hz, apparent resistivity for Cp-4170 Hz, and VLF of the summed residual field; and 1 map at 1:20,000; total magnetic intensity.

1. INTRODUCTION

1.1. General Considerations

These services are the result of the Agreement made on March 28, 1996 between Imperial Metals Corporation and Scintrex Limited to perform an airborne geophysical survey over exploration concessions in British Columbia. The survey consisted of 1147.7 I-km of electromagnetic, magnetic, radiometric and VLF data.

The data acquisition was carried out between April 20 and May 12, 1996. The data processing started when the data was sent to Scintrex's office in Toronto and was completed at the end of June, 1996.

1.2. Survey Specifications and Deliverable Products

The geophysical service, as specified in the contract, was a helicopter-borne multiparameter electromagnetic-magnetic-VLF geophysical survey, with flight lines 100 m apart, sensor flying height varying from 30 to 60 m, GPS differential positioning and 0.1 second sample rate.

Data compilation and processing were carried out by the application of Geosoft and Scintrex computing programs to generate the colour contour maps and other products. Seven types of geophysical maps for each survey block were presented at a scale of 1:10,000 and one map was presented at 1:20,000. EM anomalies were picked for all flight lines and are presented in a special symbol map. The Giant Copper maps at 1:10,000 were split into two map sheets, a north half and a south half. The 1:20,000 map fit on one map sheet.

The survey report describes the procedures for data acquisition, processing, and final map presentation and the specifications for the digital data sets. A tabulation of the identified EM anomalies also forms part of this report (Appendix II). Detailed discussion and interpretation of the results were not part of this report.

1.3. Relief and Vegetation

The Giant Copper property is in an area of rugged relief with altitudes varying from 30 to 2300 m.

The Shiko Lake property is less rugged and altitudes range from 800 to 1100 m.

Vegetation in both regions is well developed and composed of coniferous forests.

2. DATA ACQUISITION

2.1 Survey Area

The survey areas (see sketch Appendix I) and general flight specifications are outlined as follows:

AREA	LINE SPACING	LINE DIRECTION	<u>TOTAL LINE KM</u>	<u>AREA</u>
Giant Copper	100/8000m	0°/90°	658.8 Lkm	61.9 Km²
Shiko Lake	100/2000m	0°/90°	488.9 Lkm	45.5 Km²

The airborne survey comprised a total of 1147.7 I-km of geophysical data acquired from April 20 to May 12, 1996 by surveying an area of 107.4 km². About 34.9 helicopter flying hours were required to complete the survey block.

For the Giant Copper survey, the helicopter was based at the local airport in Hope. For ' the Shiko Lake survey, the base was at the William's Lake airport.

2.2 Operations Bases

During the data acquisition for the Giant Copper property, the base station was located at the local airport in Hope. For the Shiko Lake property, the base station pas placed at the William's Lake airport.

2.3 Flight Specifications

The flight line directions and spacings for the block were established by the client, following the principle of crossing the general geological structure with a normal angle. The blocks were surveyed in a north - south direction. The line spacing was established at 100 m. This was very difficult to maintain, especially over the Giant Copper property, due to extreme topography.

The optimum terrain clearance adopted for the helicopter and instrumentation during normal survey flying was 60 m with sensors suspended below (mag at -15m, VLF at -15m, EM bird at -30m). Actual terrain clearance of the helicopter varied between 40 and 80 m and averaged 60 m because of the rugged topography.

Normal helicopter airspeed averaged around 80 km/h. In areas of rugged terrain and depending on wind intensity, more variations were encountered. Data was recorded

using a 0.1 second sample rate resulting in geophysical measurements approximately every 2 to 3 meters along the survey lines. Sampling rates and resolutions for data in each channel are specified in the Table 2.1 below.

TA	BLE	2.1

SYSTEM/No. of CHANNELS	SAMPLING RATES/SEC.	RESOLUTION
Total Field Magnetics	0.1 sec	0.001 nT
E.M 875, 930 Hz (4 channels)	0.1 sec	0.10 ppm
E.M 4170, 4800 Hz (4 channels)	0.1 sec	0.20 ppm
E.M 35,000 Hz (2 channels)	0.1 sec	0.50 ppm
VLF - 2 frequencies (4 channels)	0.1 sec	0.3%
Radar Altimeter (1 channel)	0.1 sec	0.15 feet
GPS Navigation	1.0 sec	0.1 m

2.4. Helicopter and Survey Instruments

2.4.1. Helicopter

The helicopter employed was an Aerospatiale (Eurocopter) A-STAR model 350 - B1. It was rented from Northern Mountain Helicopters Inc. of Prince George, British Columbia.

2.4.2. Electromagnetic System

A Scintrex HEM-V System, with 5 frequencies and multi-coil geometry, installed in a 7 m bird, was used with the configuration specified in Table 2.2 below.

Ta	ble	2.	2

COIL FREQUENCY	COIL ORIENTATION	COIL SEPARATION	CHANNELS	RESOLUTION
875 Hz	vertical coaxial	6.54 m	Ι, Q	0.10 ppm
930 Hz	horizontal coplanar	6.54 m	Ι, Q	0.10 ppm
4,800 Hz	vertical coaxial	6.54 m	Ι, Q	0.20 ppm
4,170 Hz	horizontal coplanar	6.54 m	Ι, Q	0.20 ppm
35,000 Hz	horizontal coplanar	6.54 m	Ι, Q	0.50 ppm

The internal noise for normal flight conditions was typically less than 2 ppm of the transmitted field. The EM data related to the ten EM channels were sampled at 0.1 second intervals or approximately every 3 m along the survey line. Additionally, the operator monitored the spheric events and the power-line noise levels as measured by the 60 Hz channel. The EM sensor was towed by an external cable 30 m long, and was maintained at a nominal flight height of 30 m above the terrain.

2.4.3. Airborne Magnetometer

A Scintrex CS - 2 Airborne Cesium Magnetometer was used on the survey. This system utilizes a split-beam, optically-pumped cesium vapor magnetic sensor, which is sampled at 0.1 seconds and which has an in-flight sensitivity of 0.001 nT. The sensor capabilities guaranteed correct sampling of high magnetic gradient zones. The total field intensity range for this instrument is approximately 20,000 to 100,000 nT. The magnetometer sensor was transported and attached to a tow-cable 15 m below the helicopter. The noise rarely exceeded 0.1 nT for this contract.

2.4.4. VLF System

A Herz VLF system, Totem 2A model, was used to measure the total field and vertical quadrature components of both of the two VLF stations, operating in the range of 15 kHz - 30 kHz. VLF channels were also sampled at a 0.1 second interval. The sensor

was transported in the same auxiliary bird used for the magnetic sensor.

The transmitters used were chosen to be aligned with the main structural trends of the area geology. Those were as follows:

NLK, Seattle, Washington, USA24.8 kHzNAA, Cutler, Maine, USA24.0 kHz

2.4.5. GPS Positioning System

A Scintrex Differential GPS system comprising a PNAV-486 navigation computer and NovaTel 951 R GPS Card 10-channel receiver was employed to provide positioning and navigation control. The system determines the absolute position of the helicopter in three dimensions, resulting in a position sampling accuracy of about 5 m. As many as 7 to 10 satellites are monitored during all flight periods in order to provide continuous and actualized information to the pilot. This data is combined with base station GPS data in a post-flight correction procedure. The GPS positioning data were recorded at 1.0 second intervals.

2.4.6. Data Acquisition/Recording System

A Scintrex PDAS-1000 data acquisition system was used to record and monitor the geophysical data. Data were also simultaneously recorded on hard disk and then ported to a laptop hard drive and dumped to the field computers for post-flight computer processing.

2.4.7. Ancillary Equipment

A Scintrex VFPR-3 Video Flight Path Recorder System, comprising a Panasonic colour video camera and a Sony VCR operating in 8 mm format was used to record the flight path of the helicopter. Time and fiducial information were superimposed on the video recording along with the uncorrected GPS position.

A Bendix-King KRA-10 radar altimeter system was used to record the terrain clearance with an accuracy of about 1 m.

The altimeter was interfaced to the data acquisition system with an output repetition rate of 0.1 second. Recording was carried out in both digital and analog format.

2.5. Ground Equipment

2.5.1. Magnetometer and GPS Base Station

A Scintrex CS-2 cesium magnetometer, with digital recording, was operated continuously throughout the airborne data acquisition phase. The instrument was set up with a sampling interval of 2 seconds and sensitivity of 0.1 nT, to monitor the diurnal variation and periodic magnetic storms. At the end of the days work, the data stored in the magnetometer was transferred to the field workstation but not used in the data reduction.

A ground base station GPS unit was also installed at the operations base to monitor GPS satellite correction data. The records from the base station GPS were used with the aircraft files to determine the differential correction (DGPS) of the flight path.

2.5.2. Field Computer Work Station

A dedicated PC-based field computer workstation was used for purposes of reproducing the geophysical data for quality control, plotting a corrected flight for navigation control and for copying and verifying the digital data. The data were then sent to Scintrex's Toronto office for final processing.

2.6. Data Acquisition Procedures

Data is collected in a binary format with a header file in ASCII and one binary file per line. As well, a binary file of the remote positioning information accumulates while the aircraft is surveying.

The survey area in British Columbia was initially planned by using the GPS Navtrain simulation program. For each block, the coordinates as well as line spacing, direction, etc, were input in the program to compile the survey parameters and to generate the total line kilometers and the survey control files. These files were used by the operator for real time navigation purposes.

Daily routine involved a series of calibrations and set up procedures for the geophysical system:

- An external coil was used to calibrate the EM system periodically and an internal coil was employed to check the system calibration by repeating the checking procedures at least twice per survey flight. The EM system was also phase adjusted with an external ferrite bar before each survey flight;
- b) The VLF system was tuned to two of the VLF transmitters located in the United
States, according to the survey area location and flight line direction. In all cases, NAA and NLK were used for this survey.

c) The magnetometer sensor performance was evaluated by the noise level showing up on the analog record (4th difference profile).

The field office routine comprised the compilation and data quality control, as follows:

- a) Data quality control involved checking the EM noise levels and drift, identifying the presence and amplitude of spherics, as well as implementing correct calibration procedures. For magnetic data, the noise envelope was measured by 4th difference record; spikes due to cultural effects or sensor orientation were carefully monitored. VLF was checked for data recording spikes and noise levels;
- b) Analysis of GPS flight path plot files involved comparing the initial plot of the flight path with the planned flight path;
- c) Video tape flight path checking to confirm cultural sources affecting data and
 anomaly locations;
- d) Plotting the base station magnetometer data files in order to reproduce the diurnal variation profile. For acceptance of magnetic data, the diurnal variations had to be less than 40 nT for a 5 minute period;

After the pre-processing, the data were organized in the Geosoft format data files. These files, including the geophysical and positioning information, were transferred to an optical disk for office processing purposes.

2.7. Field Personnel

The survey crew consisted of the following personnel:

Dave Hayward	Crew Chief
Damir Jamakosmanovic	Systems Operator
John Currie	Data man/Geophysicist

The pilot and flight engineer were supplied by the Helicopter company (Northern Mountain Helicopters Inc., Prince George, British Columbia).

General project management was under the responsibility of Terry McConnell, Vice President and General Manager, Systems and Surveys Division, Scintrex Limited.

3. DATA PROCESSING

3.1. Considerations

Data processing involved applying the Scintrex Computer Mapping and Processing routines to the data. The data center at Scintrex is configured in a PC environment with workstations based on Pentium 90 series computers, with high capacity hard disks and E-size Hewlett-Packard Inkjet plotters.

Basically the processing consisted of four different steps, as follows:

- a. Post-flight processing to generate a flight path derived from the GPS locations.
- b. Generation of the Oasis database merging the position relative to the data.
- c. Geophysical data reduction in Oasis by application of correction procedures.
- d. Processing of the data and preparation of plot files by standard methods.

During post flight processing, the GPS corrected positions are reduced and the survey data is imported into an OASIS binary database. The OASIS system is used for all merging, corrections, editing functions and preconditioning. Once this segment of the work is completed, specific X,Y,Z files are exported from the binary database ready ' for processing with GEOSOFT software. This system permitted on-site monitoring of data quality during survey, and allows immediate preliminary map production and follow-up of exploration anomalies and mapping targets.

Different procedures were followed in order to process the data for map generation. According to the data character (i.e. Magnetic, EM, or VLF), different correction procedures were applied and were standardized for all work in British Columbia as outlined in the following section.

3.2. Data Compilation

3.2.1. Flight Path Generation

After importing each survey flight into the database, the corrected GPS positions were merged for each successive flight. At this point, an X,Y,Z file containing an Easting and Northing, together with a fiducial could be created in order to test the flight path.

3.2.2. Magnetic Data

No base station variation removal was carried out on the surveyed magnetic field because magnetic diurnal variation was minor at all times. The airborne total field data was leveled by the use of tie lines exclusively throughout the survey work. Data quality check was accomplished by computing the fourth difference and plotting the unlevelled data with the difference function. This technique permitted tracking the performance and deterioration of the magnetometer sensor as well as the noise levels which were superimposed on the data during survey activities. The bad data was removed in a special column of the data base after copying the original data to a new channel, thus preserving the raw magnetic values. The manual editing consisted of occasional elimination of dropout spikes which were up to 1.5 seconds wide and were caused by the magnetometer losing orientation while climbing up steep mountain faces.

The leveling was carried out by adjusting the intersection points on the traverse lines such that the differences were minimized with the control lines. First a leveling intersection network is established and intersections are weighted according to their magnetic differences. For example an intersection on a sharp magnetic high having a high gradient may be weighted much lower than the average point or simply may be eliminated from the network.

OASIS permitted visual examination of the intersections for each tie-line if manual editing was required. As well, the leveled line could be visually compared to the unleveled line at any time during the leveling process. The leveled data was then exported to an X,Y,Z file and a preliminary map was generated and inspected.

A minimum curvature, Akima spline was applied. The data were gridded and then prepared for contouring by applying a Hanning filter to the gridded values.

The IGRF field was not removed from the leveled total field because of large regional variations in the measured total field over relatively short distances. An FFT-based, two-dimensional operation was used to generate the Reduction-to-the-Pole version (RTP) of the total magnetic intensity map. Another FFT-based operation was used to calculate the first vertical derivative of the total magnetic intensity. The data was gridded and prepared for contouring by applying a Hanning filter to gridded values.

3.2.3. VLF Data

The processing applied to VLF data involved first correcting for **a** 2.0 second lag (caused by the internal acquisition of the instrument). Then the field strengths from the two stations were summed. A regional field was calculated from the summed values and then subtracted from the summed values such that the resultant residual contained anomalous wavelengths shorter or equal to one thousand meters.

This filtering removes responses caused by long wavelength changes in signal strength and sharpens the short wavelength responses and produces a multi-directional image. However, all VLF maps can be very affected by terrain, resulting in anomalies displaying a high correlation with ridges that are parallel to the transmitter direction and that are moderately conductive.

3.2.4. Electromagnetic Data

Initially all channels of EM data were inspected for noise and noise characteristics on a flight by flight, line by line basis. Data falling within the allowable noise envelope were first treated with a non-linear filter (1.5 seconds width and 5% of tolerance) to reduce the amplitude of all spikes to within the acceptable noise envelope. Next, the data was treated with a lowpass, matched, recursive filter (0.3 second cutoff) to separate the signal from the remaining short period noise. This signal enhanced channel formed the basis for all further processing of the electromagnetic data in that channel. The procedure was then repeated for all EM channels. A visual inspection of the raw and filtered channels profiles at the same scale was carried out on every flight line.

The EM data were then subjected to a semi-automated anomaly picking using the low and mid frequency coaxial coil pairs (875 Hz and 4,800 Hz) in order to ensure the highest resolution possible with respect to the anomalous zone nearest the surface. The technique was implemented by first calculating a residual for the inphase and • quadrature components and plotting these at the same scale on the OASIS screen. As well, the original filtered component and the computed regional of the inphase component are plotted on the same screen to prevent the possibility of picking filter artifacts.

The picker then referred to the plots to pick the anticipated conductor locations and to the numerical window to check the digital values of the respective inphase and quadrature components. At this point the picker inserted an anomaly flag in the anomaly column such that he can export the amplitudes and location at the picked points only. The amplitudes are then used to interpret the conductance which could arise from a plate model (finite plate 600 X 300 m). The interpreted conductances were inserted into the database and an anomaly X,Y,Z file was re-exported and merged with the flight path in order to make an anomaly map.

Leveling of the EM channels was carried out on the coplanar coil pairs so that apparent resistivity map could be made. A table was constructed which consisted of averaged end point values of inphase and quadrature components of all sequential calibration flights along with their respective GPS times for each frequency. From this point a table file was made for each flight, for each component and for each frequency.

The required frequencies (930 Hz and 4,170 Hz) were leveled by assuming that linear drifting had occurred between the calibration lines. A resistivity value was then extracted from a lookup table of half space resistivity grid values for that frequency

and component. If non-linear drifting had occurred (common in mountainous terrain) the zero levels was manually adjusted such that leveling errors in the data were minimized. Finally, the lower limit of values below the signal to noise threshold were clipped to a constant value. As well, those values above the approximate value of the respective frequency were also clipped to a constant value depending on the coherency of the resistivity data. A lowpass filter (cutoff at 0.5 seconds) was applied to the calculated resistivity and this data was then exported in X,Y,Z format such that a resistivity map could be made.

3.3. Map Generation

3.3.1. General Characteristics

A standard grid cell size of 25 m was used. Computer generated contour maps of total field magnetics, vlf and resistivity were typically created from their respective grids. Colour maps were produced by interpolating the grid down to an appropriate pixel size. This data is then incremented with respect to specific amplitude ranges to provide solid colour "contour" maps. Black-line contours were also superimposed on the colour maps using GEOSOFT merging routines.

The UTM coordinate net was superimposed on the maps as well as the flight path. Latitude and Longitude ticks were also added to the map surrounds. A colour pallet located at the right side of the map shows the different levels of intensity relative to the colour being mapped. Legend information identifying the client and the product is then added to the map surround.

The characteristics that have been produced and presented for these surveys are described below:

3.3.2. Magnetic Maps

Three different magnetic map sets were produced: Total Magnetic Intensity and Calculated First Vertical Derivative and the Total Magnetic Intensity Reduced to the Pole. The total magnetic intensity data were contoured by using 2,10 and 50 nT intervals.

3.3.3. Electromagnetic Maps

Contoured Apparent Resistivity Map at 930 Hz - resistivity (in ohm-m), calculated using a half space formula for the horizontal co-planar frequency of 930 Hz.

Contoured Apparent Resistivity Map at 4170 Hz - resistivity (in ohm-m), calculated using a half space formula for the horizontal co-planar frequency of 4170 Hz.

EM Anomaly Symbol Maps - The symbols express conductance estimates for the anomalies detected by the vertical co-axial coils of 870 Hz and 4800 Hz. Each Symbol shows the anomaly referenced by a letter, the frequency of the picked conductance and the conductance in Siemens based on a thin vertical plate 600 m X 300 m in dimension, separated in four different classes, as below:

Class I -	over 100 Siemens
Class II -	10 ≤ 100 Siemens
Class III-	1 ≤ 10 Siemens
Class IV -	≤ 1 Siemens

3.3.4. Other Contour Maps

The VLF data were presented in a colour version and tittled the **Summed Residual VLF Field Strength Map.** It was generated by processing of the total field measured by Line and Ortho stations. The VLF contouring information is presented in percent (%) of the primary field strength.

3.4. Digital Archives

A Digital archive in GEOSOFT format containing raw and corrected data was prepared.

3.5. Data Processing Personnel

Scintrex operations at the Data Center in Toronto was carried out by geophysicist John Currie.

4. DELIVERED PRODUCTS

4.1. Survey Report

The survey report describes the data acquisition, processing, and final presentation of the survey results. In addition to computed maps a tabulation of identified anomalies, anomaly sources and their characteristics forms part of the report.

4.2. Maps

The following maps were presented to Imperial Metals Corporation as results of the airborne geophysical survey carried out over concessions in British Columbia:

4.2.1. Colour and Contour Maps

- 1:20,000 Total Magnetic Intensity
- 1:10,000 Total Magnetic Intensity Reduced to the Pole
- 1:10,000 Calculated First Vertical Derivative of Total Magnetic Intensity
- . 1:10,000 Summed VLF Field Strength
- . 1:10,000 Apparent Resistivity @ 930 Hz
- . 1:10,000 Apparent Resistivity @ 4170 Hz
- 4.2.2. EM Anomaly Map
 - 1:10,000 EM Anomaly Symbols
- 4.2.3. Black line Contour Maps
 - 1:10,000 Total Magnetic Intensity
- 4.2.4. Tabulation of Supplied Maps

	Giant Copper	Shiko Lake
	(# of maps)	(# of maps)
1:10,000 TMI Contour	2	1
1:10,000 TMI RTP	2	1
1:10,000 1st Derivative	2	1
1:10,000 EM Anomaly	2	1
1:10,000 Resistivity (930 H	lz) 2	1
1:10,000 Resistivity (4170	Hz) 2	1
1:10,000 VLF	2	1
1:20,000 TMI	2	1
Тс	otals: 15	8

3 copies: 45 24

Grand Total: = 69 maps

Fifteen (15) different geophysical maps were supplied for the Giant Copper property as listed above. Due to the physical size of the property, the maps at 1:10,000 had to be divided into two map sheets; the North half and the South half.

Eight (8) different geophysical maps were supplied for the Shiko Lake property. The entire area fit onto one map sheet at 1:10,000.

Three copies of each map were delivered to Imperial Metals Corporation. Therefore, the grand total of supplied maps is 69.

4.3. Digital Archives

A digital archive in GEOSOFT format containing raw and corrected data was supplied to Imperial Metals Corporation.

4.4. Flight Path Videos

All original 8 mm video tapes available for each survey flight were delivered to Imperial Metals Corporation.

SCINTREX LIMITED June 26, 1996

APPENDIX A

1

SURVEY AREA LOCATION



AREA LOCATION MAP SHIKO LAKE PROPERTY



APPENDIX B

EM ANOMALY LISTING

•

X	Y	Time Fiducial	Conduct- ivity	Frequency	Anomaly Letter
(m)	(m)	(sec)	(siemens)	(Hz)	
Line 20					
601316.0	5814326.9	481.0	3.4	4800	Α
Line 30					
601426.0	5811810.5	630.0	8.6	875	Α
Line 40					
601507.7	5814457.0	771.0	7.0	875	Α
601522.0	5811783.8	838.0	1.9	4800	В
Line 60					
601709.7	5814652.4	1071.0	7.3	875	Α
Line 80					
601912.2	5814436.6	1404.0	5.0	875	Α
601904.6	5810626.9	1505.0	1.5	4800	В
Line 90					
602010.9	5810999.2	1529.0	2.1	4800	Α
Line 100					
602097.2	5815087.7	1694.0	2.8	4800	Α
Line 110					
602204.5	5814675.1	1945.0	4.4	875	Α
Line 140					
602497.2	5811984.9	2432.0	1.7	4800	Α
Line 160					
602703.9	5815123.2	2709.0	8.5	875	Α
602698.1	5811854.9	2797.0	2.6	4800	В
Line 180					
602902.2	5812468.5	3280.0	1.8	4800	A
602916.6	5810539.8	3329.0	8.4	875	В
Line 190					
603007.8	5811039.4	3439.0	3.9	4800	A
603015.8	5812408.9	3481.0	1.1	4800	В
Line 200					
603110.9	5812181.8	3799.0	3.3	875	Α
Line 210				076	
603215.4	5808493.4	178.0	4.4	875	A
603194.0	5810052.4	219.0	2.1	8/5	В
603213.5	5811902.1	270.0	7.6	875	C

	X	Y	Time Fiducial	Conduct- ivity	Frequency	Anomaly Letter
	(m)	(m)	(sec)	(siemens)	(Hz)	
Line	220					
	603372.7	5813735.1	466.0	3.3	4800	Α
	603322.2	5810312.7	564.0	0.8	4800	В
	603331.9	5808681.5	613.0	1.0	4800	С
Line	230					
	603418.9	5814354.9	797.0	5.7	875	Α
Line	250					
	603648.4	5811627.6	1153.0	1.4	4800	Α
	603616.4	5814938.8	1247.0	1.3	4800	В
Line	270					
	603815.2	5811576.4	1591.0	0.9	4800	Α
Line	280					
	603875.7	5815777.7	1723.0	2.8	4800	Α
	603877.6	5814286.9	1764.0	2.5	4800	В
Line	290					
	604009.9	5815579.5	2141.0	0.5	4800	Α
Line	300					
	604068.7	5815596.6	2167.0	1.7	4800	Α
Line	310					
	604222.3	5814963.6	2547.0	1.1	4800	A
Line	320					
	604303.6	5814901.2	2602.0	1.3	4800	A
	604300.7	5811304.5	2699.0	0.7	4800	В
Line	330					
	604422.1	5812478.8	2903.0	1.8	4800	A
	604428.9	5815065.8	2973.0	2.2	4800	В
Line	340					
	604513.0	5814239.5	3019.0	1.4	4800	A
	604479.7	5810769.2	3116.0	0.6	4800	B
	604455.9	5808812.7	3176.0	1.0	4800	С
Line	350				1000	
	604615.5	5811460.9	3282.0	2.1	4800	A
	604583.0	5813612.5	3336.0	5.3	4800	В
	604589.0	5814274 1	3353.0	2.0	4800	С

B 3

	X	Y	Time Fiducial	Conduct-	Frequency	Anomaly Letter
	(m)	(m)	(sec)	(siemens)	(Hz)	
Ι	Line 360					
	604711.2	5810312.7	3503.0	3.3	4800	Α
	604684.7	5808653.3	3549.0	3.4	4800	В
Ι	Line 370					
	604818.2	5810629.7	564.0	2.7	4800	Α
Ι	Line 380					
	604898.6	5813130.1	732.0	1.5	4800	Α
	604911.0	5810241.7	799.0	6.8	875	В
Ι	Line 390					
	605031.7	5810607.5	889.0	2.0	4800	Α
	60499 8 .0	5813758.9	973.0	2.9	4800	В
L	Line 400					
	605119.6	5812879.8	1071.0	2.2	4800	Α
	605095.1	5811410.7	1108.0	2.1	4800	В
L	Line 410					
	605204.3	5812041.3	1269.0	2.4	4800	Α
	605205.5	5812829.2	1292.0	1.2	4800	В
L	Line 430					
	605403.5	5811875.2	1631.0	1.6	4800	Α
	605416.2	5812526.3	1653.0	1.0	4800	В
L	Line 440					
	605506.1	5812851.6	1788.0	0.8	4800	Α
L	Line 450					
	605602.9	5812239.6	2003.0	1.0	4800	Α
	605609.2	5813571.4	2041.0	0.8	4800	В
L	Line 460					
	605697.4	5812762.8	2153.0	3.2	4800	Α
L	Line 470					
_	605807.2	5813401.2	2404.0	1.1	4800	Α
L	Line 500					
_	606105.7	5811098.5	3059.0	1.6	4800	Α
L	Line 520					
-	606299.8	5813389.6	3382.0	1.1	4800	А
L	Line 530				1000	
	606396.9	5813344.3	3651.0	1.2	4800	Α

X	Y	Time Fiducial	Conduct- ivity	Frequency	Anomaly Letter
(m)	(m)	(sec)	(siemens)	(Hz)	
Line 540					
606506.8	5813202.9	3757.0	0.6	4800	Α
606497.2	5809613.3	3855.0	0.9	4800	В
Line 550					
606598.9	5812629.0	4003.0	6.9	875	Α
606601.2	5813008.9	4014.0	2.4	4800	В
Line 560					
606674.0	5812991.2	4126.0	2.6	4800	Α
Line 570					
606817.4	5812221.0	4332.0	0.9	4800	Α
606801.6	5812903.5	4354.0	1.4	4800	В
Line 580					
606863.2	5813961.7	4393.0	1.8	4800	Α
Line 590					
607023.1	5813083.3	4637.0	6.3	875	Α
Line 650					
607611.8	5811202.3	5552.0	0.6	4800	Α
607618.0	5813429.0	5644.0	2.0	4800	В
Line 660					
607709.3	5813336.0	5693.0	1.9	4800	Α
Line 670					
607779.3	5813491.0	5956.0	1.7	4800	Α
Line 680					
607896.8	5812678.1	6002.0	1.1	4800	A
Line 690				1000	
608018.0	5813488.9	467.0	3.3	4800	A
Line 700		500 0	2.0	1000	
608054.5	5813031.2	528.0	2.8	4800	A
Line 710	5010100 A	724.0	1.2	1000	
608215.3	5812180.4	724.0	1.3	4800	A
608215.2	5812840.0	/58.0	1.1	4800	в
Line /20	5012042.0	007.0	1 4	1000	٨
008334.U	5815942.8	807.0	1.4	4800	A
Line /40	5012065 2	1142.0	2.4	4800	٨
000430.0	2012202.2	1142.0	5.4	+000	A

Х	Y	Time Fiducial	Conduct- 1 ivity	Frequency	Anomaly Letter
(m)	(m)	(sec)	(siemens)	(Hz)	
608467.4	5813762.5	1148.0	1.0	4800	В
608467.1	5813220.0	1167.0	0.7	4800	С
Line 750					
608557.4	5812888.8	1412.0	1.3	4800	Α
608568.2	5813257.9	1428.0	1.1	4800	В
Line 800					
609096.2	5811453.7	1779.0	2.1	4800	Α
609110.9	5810825.1	1799.0	2.2	4800	В
Line 820					
609319.7	5810589.3	1937.0	4.3	875	Α
Line 850					
609614.1	5811084.7	2129.0	6.1	875	Α
Tie 9010					
603053.0	5810191.8	2344.0	1.7	4800	Α
607161.4	5810265.6	2494.0	1.0	4800	В
607950.0	5810177.9	2519.0	1.1	4800	С
Tie 9020					
601727.6	5812293.3	47.0	1.6	4800	Α
601955.8	5812312.8	56.0	1.2	4800	В
602970.9	5812322.4	90.0	3.5	4800	C
605493.8	5812327.2	166.0	0.6	4800	D
Tie 9040					
602630.8	5816036.8	452.0	4.5	875	Α

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EM ANOMALY LISTING GIANT COPPER PROPERTY

	X	Y	Time Fiducial	Conduct-	Frequency	Anomaly Letter
	(m)	(m)	(sec)	(siemens)	(Hz)	
Line	110					
2	640723.4	5447673.1	3701.0	7.0	875	А
Line	120					
	640852.1	5448336.4	4267.0	7.4	875	Α
Line	130					
	640995.2	5452440.1	1198.0	5.6	4800	Α
Line	160					
	641275.8	5453168.0	2528.0	3.9	4800	Α
	641283.7	5452884.9	2537.0	4.8	875	В
	641261.6	5450363.6	2619.0	2.7	4800	С
Line	170					
	641393.2	5450429.4	3401.0	7.6	875	Α
	641344.9	5451198.6	3439.0	0.9	4800	В
	641367.3	5452134.3	3480.0	4.5	4800	С
	641384.0	5453310.4	3514.0	7.6	875	D
Line	180					
	641459.9	5453308.6	3539.0	7.4	4800	Α
	641496.9	5453149.3	3551.0	1.6	875	В
	641473.6	5452028.9	3589.0	2.1	4800	С
	641513.7	5450415.9	3640.0	2.9	875	D
	641472.1	5443434.4	3980.0	1.1	4800	E
Line	190					
	641616.5	5446436.8	4173.0	4.2	4800	Α
	641591.4	5453283.5	4526.0	2.7	4800	В
Line	200					
	641648.8	5452975.6	363.0	1.6	4800	Α
Line	210		,			
	641764.3	5446913.6	2196.0	1.0	4800	Α
Line	220					
	641851.8	5449921.3	3186.0	16.1	875	Α
Line	230					
	641985.6	5449766.8	4275.0	2.2	4800	Α
	641953.7	5453073.4	4465.0	1.1	4800	В

EM ANOMALY LISTING GIANT COPPER PROPERTY

Х	Y	Time Fiducial	Conduct-	Frequency	Anomaly Letter
(m)	(m)	(sec)	(siemens)	(Hz)	
Line 240					
642063.8	5453153.7	247.0	2.0	4800	Α
642025.2	5449503.4	444.0	1.0	4800	В
Line 250					
642161.0	5450776.8	676.0	1.3	4800	Α
Line 270					
642360.4	5450159.4	2424.0	2.8	4800	Α
Line 280					
642437.7	5450177.1	512.0	1.3	4800	Α
Line 420					
643867.5	5450208.2	1248.0	1.1	4800	Α
Line 460					
644276.2	5446201.1	2741.0	1.2	4800	Α
Line 480					
644456.4	5445958.1	3587.0	0.9	4800	Α
644453.6	5446310.1	3609.0	3.6	4800	В
Line 490					
644554.4	5445905.3	4391.0	1.3	4800	Α
Line 500					
644665.5	5445759.9	4639.0	6.5	875	А
Line 520					
644876.6	5446018.9	5571.0	1.3	4800	А
644879.4	5446813.1	5623.0	1.2	4800	В
Line 540					
645114.3	5445914.8	993.0	0.9	4800	Α
Line 550					
645167.4	5444295.1	1704.0	1.3	4800	A
Line 560					
645278.1	5444514.6	1877.0	1.2	4800	Α
Line 600				1000	
645640.0	5445463.6	931.0	1.3	4800	A
Tie 9010					
641607.2	5453454.7	322.0	2.5	4800	Α

APPENDIX C

FLIGHT LOGS

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						TREX	BE C	ICA BHT L		
CLIENT: IMPER	RIAL	HETAL		BLOCK # :	2	JOB: GI	26	PAGE C)F	TEST LINE CODES:
FLT #	1		_	DATE: A	PR. 20	196		OPERATOR:	DANIR	EM GND PHASE: XXX1
PILOT: PAUL	C WIN	ILECKI		0. A.T.:	8°	/		A/C REG:	ASTAR BI	EM GMD Q COIL: XXX2
BASE: HO	PE		_	QNH :	/			FUBL:	60 %	EM NULL/Q AIR: XXX3
TAKE OFF:	6:30		-	LAND:	6:50	·····		FLT TIME:	0.20	GND SPEC BG, UR TH: XXX4
HBIGHT:	200			VLF LINE:	SEATT	15		VLF ORTHO:	NAINE	SPEC BG H20/AIR XXX5
em Freq: F1_		F2	F3	·	F4	F5		VIDEO TAPE #		SPEC TEST LINE XXX6
GND TES	T FILES	1	Ţ	FLIGHT	DATA FI	LES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7
TBXT :			TEXT:	O REC				TOTAL COUNT		TO BE ANNOUNCED XXX8
DUP :			DUP:					POTASSIUM	<u> </u>	TO BE ANNOUNCED XXX9
RAW GPS:			RAW GPS:					URANIUM	<u></u>	
								THORIUM		XXX=FLIGHT NUMBER
LINE # ST	TART	TIM	(B	BOUNDA	RIES	FILE	ACCEPTED	INTERVAL		······································
1	ID	START	BND	START	END	NAME	FID	BOUNDRY		COMMENTS
	-								TEST FUE	HE FOR PHISICAL
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	ANY	LINE	REFLOWN	SHOULD	HAVE 7	THE LINE	NUMBER	INCREMENTE	D BY 1 EACH TI	ME

LIENT: //7	AFO IA	HETA		BLOCK # :	2	JOB: G/	26	PAGE	OF	TEST LINE CODES:
'LT #	002			DATE:	APK 22	2 196		OPERATOR:	DAMIR J.	EM GND PHASE: XXX1
ILOT: P	PAUL W			0.A.T.:	15:01	15 %		A/C REG:	ASTAR BI	EM GMD Q COIL: XXX2
ASE:	HOPE			QNH :				FUEL:	60 %	EM NULL/Q AIR: XXX3
AKE OFF:	11:0	5	-	LAND:	12:25			FLT TIME:	1:20	GND SPEC BG, UR TH: XXX4
BIGHT:	200	>		VLF LINE:	SEATIO	E		VLF ORTHO:	MAINE	SPEC BG H20/AIR XXX5
M FREQ :	71	F2	F3		F4	F5		VIDEO TAPE	# _1	SPEC TEST LINE XXX6
GND	TEST PIL	BS		FLIGH	T DATA FIL	ES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7
BXT :	15.	T 47	TEXT: Se	5042118.	<i>T07</i>			TOTAL COUNT		TO BE ANNOUNCED XXX8
UP:	<u>/5</u> .	047	DUP: 5	6042117.	007			POTASSIUM		TO BE ANNOUNCED XXX9
W GP8: _			RAW GPS:					URANIUM		
			L	······				THORIUM		XXX=FLIGHT NUMBER
LINE #	START	TI	418	BOUNDA	RIES	FILE	ACCEPTED	INTERVAL		COLOURNES
(0.0.)		SIARI	BND	START	END	NAME	F1D	BOUNDRI		
0.01						13 3 4 8			GNO NULL	PHASE ac
10.05	7	4.00	<u> </u>			18824			517-550 0	·· · · · · · · · · · · · · · · · · · ·
10.5	<u></u>	402				18B54				
20.1	453					18 B56				·····
30 H	498					19800				
40. S	560					19803				
50 N	691					19B07	<u></u>			
60 S	807					19812				
70 N	1006					19817			CAUCECED	LINE EPS(NO JATA)
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CLIENT:	INPERIN	AL HE	746	BLOCK # :	2	JOB: 612	6	PAGE	OF	TEST LINE CODES:
FLT #	003			DATE:	APR 22	196		OPERATOR :	DANIR J.	EM GND PHASE: XXX1
PILOT:	PAUL	×		0.A.T.:	15°C 1	14°C		A/C REG:	ASTAR BI	EM GMD Q COIL: XXX2
BASE:	HOPE			QNH :	/			FUEL:	60%	EM NULL/Q AIR: XXX3
TAKE OFF:	13:2	0		LAND:	14:55	-		FLT TIME:	1.35	GND SPEC BG, UR TH: XXX4
HBIGHT: _	200	٥	-	VLF LINE:_	SEATT	LE		VLF ORTHO:	MAZINE	SPEC BG H20/AIR XXX5
EM FREQ:	F1	F2	F		F4	F5		VIDEO TAPE	# _1	SPEC TEST LINE XXX6
GND	TEST FILE	s		FLIGH	T DATA FIL	ES		SPECTROMETE	R R.O.I.'S	RADAR ALT CAL XXX7
TBXT :			TEXT: 56	504212	0736			TOTAL COUNT	·····	TO BE ANNOUNCED XXX8
DUP:			DUP:	2	<u> 2036</u>			POTASSIUM		TO BE ANNOUNCED XXX9
RAW GPS:			RAW GPS:					URANIUM		
								THORIUM		XXX=FLIGHT NUMBER
LINE #	START	TI	Œ	BOUNDA	RIES	FILE	ACCEPTED 1	NTERVAL		
	FID	START	END	START	END	NAMB	FID	BOUNDRY		COMMENTS
70.03	1					20341				
70.S	251			_		20849			GPS JU	2911
80.N	380					20 B 5 5				
90. S	586					21802			615 30	110£
100 M	907					21 814			F1 HOISE	1320 - 1400
110 S	1656					21 830			C.+ HCECED	CINC
120 H	1794		1			21 8 35			444 20	
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	AN	Y LINE	REFLOWN	SHOULD	HAVE T	HE LINE	NUMBER 1	NCREMENT	TED BY 1 EACH TIN	1E

						Son REX-	SIC	ALL HT L		
	PERIA	AC ME	7 7 L	BLOCK # :	2	JOB: E'I	26	PAGE 0	F	TEST LINE CODES:
PLT #	004			DATE: _/	PK 27 1	96		OPERATOR:	DANIR J	EM GND PHASE: XXX1
PILOT:	PAUL X	/	_	0. A.T.:	<u>15°C 1</u>	14 %		A/C REG:	ASTAR OF	EM GMD Q COIL: XXX2
ASE:	HOPE			QNH :	/			FUEL:	60%	EM NULL/Q AIR: XXX3
AKE OFF:	17:1	<u> </u>		LAND:	18:45	-		FLT TIME:	1:30	GND SPEC BG, UR TH: XXX4
BIGHT:	200	<u>></u> _	_	VLF LINE:	SEATTL	ε		VLF ORTHO:	MIAIKE	SPEC BG H20/AIR XXX5
M FREQ:	F1	F2	F:	·	F4	F5		VIDEO TAPE #	2	SPEC TEST LINE XXX6
GND	TEST FILE	s		FLIGHT	T DATA FIL	ES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7
BXT :	23 T .	41	TBXT:	2800	<u>T05</u>			TOTAL COUNT		TO BE ANNOUNCED XXX8
UP :	231) 4 /	DUP :	2800	005	······································		POTASSIUM		TO BE ANNOUNCED XXX9
AW GPS:			RAW GPS:	·	<u></u> .			URANIUM	<u> </u>	
								THORIUM	<u> </u>	XXX=FLIGHT NUMBER
LINE #	START	TI	MB	BOUNDA	RIES	FILB	ACCEPTED I	NTERVAL		
	FID	START	END	START	END	NAME	FID	BOUNDRY		COMMENTS
281 N	1					23 8 42			HULL AISU	a c .
198.30	1	····				00B24				
777.E	549				, 	00 8 34			TEST LING	5
70 S	717					00839				
PON	893					00.843				
90 S	1146					00B48			EPS JUDT	\$ ⁽¹⁾
905	1331					00 B 55		1	GPS JUN	 دي
924	1432					00359				
1005	1230		1			08804		1		
11.0 11	71.12					0/A34	· · · · · · · · · · · · · · · · · · ·		CAUCELEO	CHEETER TX OUT
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CLIENT:	TPERIN	9L ME	TAL	BLOCK # :	2	JOB: 612	2.6	PAGE	OF	TEST LINE CODES:
FLT #	005		<u></u>	DATE:	APR 2	7190		OPERATOR :	DAMIR J	EM GND PHASE: XXX1
PILOT:	PAUL V	<u> </u>		0.A.T.: _	10%	1 <u>10 °C</u>		A/C REG:	ASTAR BI	EM GMD Q COIL: XXX2
BASE:	HOPE			QNH :	/			FUEL:	60 %	EM NULL/Q AIR: XXX3
TAKE OFF:	19:2	0		LAND:	20:45			FLT TIME:	1.52	GND SPEC BG, UR TH: XXX4
HBIGHT: _	200	<u>></u>	_	VLF LINE:_	SEMTTO	LE		VLF ORTHO:	ITA ILI E	SPEC BG H20/AIR XXX5
EM FREQ:	P 1	₽2	F	3	F4	F5		VIDEO TAPE #	# <u>2</u>	SPEC TEST LINE XXX6
GND	TEST FIL	BS		FLIGH	T DATA FI	LES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7
TBXT :		<u> </u>	TEXT:	2801	T41	<u></u>		TOTAL COUNT	<u> </u>	TO BE ANNOUNCED XXX8
DUP:			DUP:	28 01.	041	<u> </u>	·····	POTASSIUM	<u> </u>	TO BE ANNOUNCED XXX9
RAW GPS:			RAW GPS:					URANIUM		
								THORIUM		XXX=FLIGHT NUMBER
LINB #	START	TI	MB	BOUNDA	RIBS	FILE	ACCEPTED	INTERVAL		
	FID	START	END	START	END	NAME	FID	BOUNDRY		COMMENTS
9983 N	1					02832			NUCC C	ÊSTÇK.
99935	297					02837			as	
120 S	432		1			02843			MICH	ALTITUDE MALLIFALL
110.11	1912					03309				need be a nown FAFK
49925	2025			<u></u>	<u> </u>	DZZZZ	• <i>••</i> ••		Aunt	322.5 @C
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	AN	Y LINE	REFLOWN	I SHOULD	HAVE 7	THE LINE	NUMBER	INCREMENTE	ED BY 1 EACH	TIME

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CLIENT: //	PERIAL	NETAL		BLOCK # :	2	JOB: 6/2	26	PAGE	OF	TEST LINE CODES:
FLT #	000	â	_	DATE:	APR 28	196		OPERATOR :	DANIR J	EM GND PHASE: XXX1
PILOT:	PAUL	*/	_	О.А.Т.: _	12.01	14 °C		A/C REG: _	ASTAR BI	EM GMD Q COIL: XXX2
BASE :	HOPE		_	QNH :	/			FUEL:	60%.	EM NULL/Q AIR: XXX3
TAKE OFF:	8:3	5		LAND:	10:05	-		FLT TIME:	1:30	GND SPEC BG, UR TH: XXX4
HEIGHT:	202	>	_	VLF LINE:	SEATILO	£		VLF ORTHO:	MIZIKIE	SPEC BG H20/AIR XXX5
EM FREQ:	71	¥2	F3	·	F4	F5	SKHZ	VIDEO TAPE	#	SPEC TEST LINE XXX6
GNÉ	TEST FIL	ES	<u> </u>	FLIGH	T DATA FIL	ES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7
TEXT: 56	04280	3. T 36	твхт: <u>56</u>	042815	T18			TOTAL COUNT		TO BE ANNOUNCED XXX8
DUP: 56	04280	3.D36	DUP: SE	042815	018			POTASSIUM		TO BE ANNOUNCED XXX9
RAW GPS:			RAW GPS: _		<u> </u>	<u> </u>		URANIUM		
								THORIUM		XXX=FLIGHT NUMBER
LINE #	START	TIM	08	BOUNDA	RIES	FILE	ACCEPTED I	NTERVAL		
0.0	FID	START	END	START	BND	NAMB	FID	BOUNDRY		COMMENTS
8381.5	1				ļ	15BUE			KIGU 239 6	00 1130
99835	1					15847			50 262	Mucc
130.5	346					16 808	·····	+	VERTICAL LIFTING	E KENY SLOW UP TO 7.00, FEET
140.N	1761				[16832			· · · · · · · · · · · · · · · · · · ·	
99934	2355					16854			NULL Q.C	3112
								1	· · · · · · · · · · · · · · · · · · ·	
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	AN	Y LINE	REFLOWN	SHOULD	HAVE T	HE LINE	NUMBER I	NCREMENTH	ED BY 1 EACH TIM	E

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CLIENT: //7	PERIAL	HETA	2	BLOCK # :	2	JOB: 612	Ċ	PAGE (OF	TEST LINE CODES:
FLT #	007			DATE: 4	AR 281	96		OPERATOR :	DAMIR J	EM GND PHASE: XXX1
PILOT:	PAUL W	/		0.A.T.: _	14°C 1	14°C		A/C REG:	ASTAR BI	EM GMD Q COIL: XXX2
BASE:	HOPE			QNH :	/			FUEL:	65%.	EM NULL/Q AIR: XXX3
TAKE OFF:	10:3	0	_	LAND:	12:15			FLT TIME:	1:45	GND SPEC BG, UR TH: XXX4
HEIGHT:	200	>		VLF LINE:_	SEATTO	-ε		VLF ORTHO:	MAINE	SPEC BG H20/AIR XXX5
EM FREQ:	F 1	¥2	F3		F4	F5_ <u>3</u>	SKH2	VIDEO TAPE #	<u> </u>	SPEC TEST LINE XXX6
GND	TEST FILE	S	T	FLIGH	T DATA FIL	ES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7
TBXT:		i	TEXT: 56	042817	TOC			TOTAL COUNT	<u> </u>	TO BE ANNOUNCED XXX8
DUP:			DUP: SG	042817.	000			POTASSIUM		TO BE ANNOUNCED XXX9
RAW GPS:			RAW GPS:					URANIUM		
								THORIUM		XXX=FLIGHT NUMBER
LINE #	START	TI	MB	BOUNDA	RIES	FILE	ACCEPTED	INTERVAL		
0000	FID	START	END	START	END	NAME	FID	BOUNDRY		COMMENTS
9983H	1	<u></u>				17802			NULL, Q.C.	
150 S	458	·····				17846			GPS NO UMA	TE (CAN NOT DICK UP SATTEL)
160 H	1676					18805				
1705	2768					18 B 27				
180 N	3828					18846				
9993 5	4741					19802			HULL Q.C	
							······································			·····
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	AND	LINE	REFLOWN	SHOULD	HAVE T	HE LINE	NUMBER 1	NCREMENTE	D BY 1 EACH TIM	ſE

1 IENT. /*				BLOCK # ·		108 612	6	PAGE	OF	TEGT LINE CODE	g .
	DOP	- META	-ζ	DITE A	C 28 1	96	6	ORERATOR	DAMIE 1	FM CND DUNCE.	
	PAULIN	1		О А Т •	14. 1	14 °C		A/C PEG.	ASTAR BI	EM GND O COLL	XXX3
	HARE		-	ONTH .	/ /			FUEL.	60%	- EM NILL/O ATR	XXXX
-	12:50	2	-	LAND:	14:25			FLT TIME	1:35	GND SPEC BG. UR TH	• XXX4
IRIGHT:	200		-	VLF LINE:	SEATTO	.E		VLF ORTHO:	MAINE	SPEC BG H20/AIR	XXXS
M FREQ:	F1	F2	- 73	· _ · _ ·	F4	F5 3	5 KH2	VIDEO TAPE	# 3	SPEC TEST LINE	XXX
GNE	TEST FILE			FLIGHT	DATA FIL	ES		SPECTROMETER	R R.O.I.'S	RADAR ALT CAL	XXX7
EXT :			TEXT: 56	042819.	T07			TOTAL COUNT		TO BE ANNOUNCED	XXX
UP :			DUP: 56	04.2819.	007			POTASSIUM		TO BE ANNOUNCED	XXXS
AW GPS:			RAW GPS:			=		URANIUM			
								THORIUM		XXX=FLIGHT NUM	BER
LINB #	START	TIM	CB .	BOUNDA	RIBS	FILE	ACCEPTED	INTERVAL			
	FID	START	BND	START	BND	NAME	FID	BOUNDRY		COMMENTS	
1983	1				<u></u>	20 300			Lou, ac.		
190 5	380					20 807					
200H	1705			·		20 B 31					
2105	2579					20 347				· · · · · · · · · · · · · · · · · · ·	
220 H	3486					21 303					
9993	4209					21 8 17			HULL, Q.C.		

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DLEME DR. PAGE OF TEST IN CODES: PUT 0 0.07 DATE: TEST 0.02 DATE: TEST INFO <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>REX</th><th>BE GI</th><th>CARLEGHT L</th><th></th><th></th></t<>							REX	BE GI	CARLEGHT L		
Tr. F. Q.Q. 9 DATE: M/H Y 3 / 9 / 2 DATE: M/H Y 3 / 2 / 2 M/H Y 3 / 2 / 2 M/H Y 3 / 2 / 2<		~ ~		-	BLOCK # :		JOB:		PAGE (DF	TEST LINE CODES:
PILOT: PILOT: /	FLT #	009			DATE:	MAY 3	196		OPERATOR:	PAMIR J.	EM GND PHASE: XXX1
AMARE /	PILOT:	PAUL	K/		O.A.T.:	/			A/C REG:	ASTAR BI	EM GMD Q COIL: XXX2
DARE OFF: J.3:35 LAND: J.4:20 FILT FILT<	BASE	HOPE			QNH :	/			FUEL:		EM NULL/Q AIR: XXX3
HEIGHT: 200 VLF LIBE: SEATTLE VLF OTHIN: MMMME SPECTION TAL SPECTION TAL </th <th>TAKE OFF:</th> <th>/3.3</th> <th>5</th> <th>. .</th> <th>LAND:</th> <th>14:20</th> <th></th> <th></th> <th>FLT TIME: \mathcal{O}.</th> <th>451</th> <th>GND SPEC BG, UR TH: XXX4</th>	TAKE OFF:	/3.3	5	. .	LAND:	14:20			FLT TIME: \mathcal{O} .	451	GND SPEC BG, UR TH: XXX4
BK PEO: P1 P3 VIDEO TABLE # SPECT TEST LINK XXX5 000 TEST FILES FLOWT DATA FILES SPECTMONTH R.0.1.1.3 TO BE ANNOUNCED XXX8 000 TEST FILES FLOWT DATA FILES SPECTMONTH R.0.1.1.3 TO BE ANNOUNCED XXX8 000 TEST FILES DDF: DF: DF	HEIGHT:	200)	_	VLF LINE:_	SEATTL	ε		VLF ORTHO:	MAINE	SPEC BG H20/AIR XXX5
ORD THEST FILLES FLIGHT DATA FILLES SPECTADORTER F.O.1.*S RDAR ALT CAL XXXB TEXT:	EM FREQ:	F1	F2	P:	3	F4	F5		VIDEO TAPE #		SPEC TEST LINE XXX6
THETT: THETT: See4 2.8/7.7/5 TO BE ANNOUNCED XXX8 DUP:	gnd	TEST FIL	55		FLIGH	T DATA FIL	ES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7
DUP: DUP: POTATION TO BE ANNOUNCED XXX9 AM 093 NM 095 NM 095 POTATION NM 095 NM 09	TBXT :			TEXT: 56	042817.	T13			TOTAL COUNT		TO BE ANNOUNCED XXX8
DAM GPS:	DUP :			DUP:					POTASSIUM	<u> </u>	TO BE ANNOUNCED XXX9
LINE 6 97AT TIME BOUNDARIES FILS ACCEPTED INTENAL COMMENTS 979.35 1 20.3 4/l 800 20.3 4/l 800 ROWERTS COMMENTS 979.35 1 20.3 4/l 800 20.3 4/l ROWERTS COMMENTS 979.35 1 20.3 4/l 1 20.3 4/l ROWERTS COMMENTS 979.35 1 20.3 4/l 1 20.3 4/l ROWERTS COMMENTS 979.34 092 21.3 0.3 1 20.3 4/l 1 <td< th=""><th>RAW GPS:</th><th></th><th></th><th>RAW GPS:</th><th></th><th></th><th></th><th></th><th>URANIUM</th><th></th><th></th></td<>	RAW GPS:			RAW GPS:					URANIUM		
LINE # 97AAT TIME DOUMDATES PILE ACCEPTED INTERVAL COMMENTS 979.35 1 20.0									THORIUM	<u></u>	XXX=FLIGHT NUMBER
FID START END START END MAGE FID BOURDRY COMMENTS 979.35 1 20.847 20.847 20.847 7757 776777777 71.5 2555 20.847 20.857 7757777770 7767700 997.34 997 21.803 775777770 7000 77577770 997.34 997 21.803 71600 77577770 7000 997.34 997 21.803 71600 775777707 7000 997.34 997.3400 71600 71600 71600 71600 997.34 997.3400 71600 71600 71600 71600 71600 997.3400 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 710000 71000 710	LINE #	START	TI	(B	BOUNDA	RIES	FILE	ACCEPTED I	NTERVAL		
999.32 1 2034/1 W. S 255 2034/1 (21 M) 535 2085 (TEST FLIGHT Fox CONTORES) 993.30 993.30 (REVENTATION) 1009 1255 21809		FID	START	END	START	END	NAME	FID	BOUNDRY		COMMENTS
///. S 255 2034f /21. N 535 2085f 993. N 897 21.807 993. N 897 21.807 1009.5 12.809	<i>999</i> .3>	1					20341			<u> </u>	
121, M 535 2085) (TEST FLIGHT FOR CONDUCT 993.5 M 997 21.3 or (Reversion of the second of	/11. S	255					20348				
	121. N	535					20 B 57			TEST FLIGH	T FOR CUSTOMER
	999.3 N	897					21 3 05-			PRESENTAT	I OK
	1009 5	1255					21 809			V	
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ANY LINK KERIJUWIN SECULIJI EAVE, LEE, LINE, NUMEROVINI SECURISTICI EV CRATERI STRE		201	V LINF	PEFLOWN	SHOULD	HAVE T	HE LINE	NIMPED T	NCREMENTE	D BV 1 FACU TTM	P

	· · · ·					SCINTREX-CAR	IBE GL TYS	CAL FLIGHT LOG		
CLIENT: //	PERIAL	METAL		BLOCK # :	2	JOB: GIZ	26	PAGE	OF	TEST LINE CODES:
FLT #	010	2		DATE:	HAY 3	196		OPERATOR :	DAMIR J.	EM GND PHASE: XXX1
PILOT:	PAUL	Ve/.	-	0.A.T.:	14 °C	1 12°C		A/C REG:	ASTAR BI	EM GMD Q COIL: XXX2
BASE:	HOPE		_	QNH :	/			FUEL:	65%	EM NULL/Q AIR: XXX3
TAKE OFF:	16:	25	-	LAND:	18:05			FLT TIME:	1:40	GND SPEC BG, UR TH: XXX4
HBIGHT:	200		_	VLF LINE:	SEAT	TLE		VLF ORTHO:	MAINE	SPEC BG H20/AIR XXX5
EM FREQ:	F1	F2	F3		F4	F5		VIDEO TAPE #	3	SPEC TEST LINE XXX6
GNI	TEST FIL	8S		FLIG	IT DATA FI	LES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7
text: <u>S6</u>	042816	.746	TEXT: 50	604282	1.714			TOTAL COUNT		TO BE ANNOUNCED XXX8
DUP:	2816	. 046	DUP:	2821	.D 14		<u>-</u>	POTASSIUM	<u> </u>	TO BE ANNOUNCED XXX9
RAW GPS:			RAW GPS:	2821	R 13			URANIUM		
								THORIUM		XXX=FLIGHT NUMBER
LINE #	START	TIM		BOUND	RIES	- FILE	ACCEPTED	BOUNDRY	4	COMPNE
01115	/	- OIRKI		JIRKI		1C R 4 P				
222.1 3				·		100 70	<u> </u>		HULL, PHYSE TO TS	OFID C.C. UTO CONT
330.73	1			· · · · · · · · · · · · · · · · · · ·	1	22032				
200 5	350					23844			- 6-1: 1017105	
210 4	1745			. <u></u>	<u> </u>	00808			- CPS JUNPS	
220 5	2799					00B27			- GPS JUNPS	
230 H	3791		ļ			00345			- CHIS SCORPS	
99 <u>9</u> .3 4	4497					00358		· · ·		
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	AN	Y LINE	REFLOWN	SHOULD	HAVE 1	THE LINE	NUMBER	INCREMENTE	D BY 1 EACH TIN	ME

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CLIENT: //7	PERIA	L ME	TAL	BLOCK # :	2	JOB: 61	26	PAGE	OF	TEST LINE CODES:
FLT #	011		_	DATE:	MAY 31	96		OPERATOR :	DIAMIR J.	EM GND PHASE: XXX1
PILOT:	PAUL	<u>x/</u>	_	O.A.T.:	<u>/3°C</u> /	<u>/2°C</u>		A/C REG:	ASTAR BI	EM GMD Q COIL: XXX2
BASE :	HOPE	-		QNH :	/			FUEL:	6545	EM NULL/Q AIR: XXX3
TAKE OFF:	18:4	40	-	LAND:	20:15			FLT TIME:	1:35	GND SPEC BG, UR TH: XXX4
BIGHT:	20	0	_	VLF LINE:	SEATT	LE		VLF ORTHO:	NAINE	SPEC BG H20/AIR XXX5
M FREQ:	P 1	¥2	F:	3	F4	F 5		VIDEO TAPE	# _4	SPEC TEST LINE XXX6
GND	TEST FIL	R <i>S</i>		FLIG	IT DATA FIL	ES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7
EXT :			TEXT: <u>S</u>	604280	1.T04	230	1. 759	TOTAL COUNT		TO BE ANNOUNCED XXX8
UP:			DUP: 56	04280	1.004	2801	. 05 9	POTASSIUM		TO BE ANNOUNCED XXX9
AN GPS:			RAW GPS:	R60428	01.R04/	2301	. R59	URANIUM		
					/			THORIUM		XXX=FLIGHT NUMBER
LINE #	START	TI	MB	BOUND	ARIES	FILE	ACCEPTED	INTERVAL		
	FID	START	BND	START	BND	NAMB	FID	BOUNDRY		COMMENTS
198.35	1					01341			HUCC, QC.	······································
240 S	235					01847			(PDAS COMPU	TEL OUT FOU HETERS BEFORE E
		NEW	TEXT F	LE 28	01.TS 9				TUST	RGAI POAS ACAIN.
250 N	1					02805			- GPS JUMPS	
260 S	898					02821			- GPS JUNPS	
270 N	1837					02 8 37			- GPS JUMPS	
199.3N	2630					02852			HULL DC	
	2030		1							
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		<u> </u>				SCINTREX-CAR	IBE GE .1YS	ICAL FLIGHT LOG	A.2		
CLIENT: /M	PERIA	L HE	rac	BLOCK # :	L	JUB: 6/2	6	PAGE		TEST LINE CODES:	
/LT #	2.0	N	-	DATE:	10-01	11 %		OPERATOR:	ASTAR AI	EM GND PHASE: A	
ILOT:	LOOF	<u>'/.</u>	-	0.A.T.: _	<u> </u>	<u> </u>		A/C REG:	ESY.	EM GHD Q COID: A	.^^4
ASS:	10-2	<u> </u>	-	1 NID.	11:40			FLT TIMP.	1:35	GND SPEC BC IIR TH. Y	YY4
ARE OFFI	200	<u> </u>	-	VI.F LINE	SEATT	1.15		VI.F ORTHO	NAINE	SPEC BG H20/AIR X	XX5
M PPRO.	P1	P 2	 F3		F4	<u>F5</u> 3	SIC	VIDEO TAPE #	4-	SPEC TEST LINE X	(XX6
	TEST PIL	R9		FLIGH	T DATA FIL			SPECTROMETER	R.O.I.'S	RADAR ALT CAL X	XX7
	505/6	5730	TEXT: SG	05051				TOTAL COUNT		TO BE ANNOUNCED X	(XX8
mp, 560.	50516	030	DUP: SG	550517	2. 102			POTASSIUM		TO BE ANNOUNCED X	(XX9
AW GPS			RAN GPS:	1				URANIUM	<u></u>		
			_			<u> </u>		THORIUM	·	XXX=FLIGHT NUMBER	Ł
LINE #	START	TIM	CE	BOUNDA	RIES	FILE	ACCEPTED	INTERVAL			
	FID	START	END	START	END	NAME	FID	BOUNDRY		COMMENTS	
120.1 N	1					16333	· <u></u>		HILL, OC. CRO	STUR, GHD	
198.35	1					17B14					
280 S	263					17B25			GIS NO UND	ATE (NO SAT.) JUNP	<u>'s</u>
880 H	996					17839				t	
300 S	1682					17852					
310 K	2273	XXXXX							WHECTOR "	TX OUT / CHALECER	24
	X TEX	FILE	187	20							
3/0 5	1					18025			CONFETUR	T'X OUT / CHARGE	-12 1
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LIENT: IM	PERIN		41	BLOCK # :	2	JOB: 612	26	PAGE	OF	TEST LINE CODES:
LT #	013		46	DATE: /?	1AY 5	196	- 0	OPERATOR I	DAM(R J	EM GND PHASE: XXX
" ILOT:	BOB M	·		O.A.T.:	12 %	12 %		A/C REG:	ASTAR BI	EM GMD O COIL: XXX
NSB: /	HOPE			QNH:				FUEL:	70%	EM NULL/O AIR: XXX
AKE OFF:	12:2	5	_	LAND:	14:20	- <u> </u>		FLT TIME:	1:55	GND SPEC BG, UR TH: XXX
BIGHT :	200			VLF LINE:	SEAT	TLE		VLF ORTHO:	MAINE	SPEC BG H20/AIR XXX
M FREQ:	P1	F 2			F4	F5 _	S5K	VIDEO TAPE	# 4	SPEC TEST LINE XXX
GND	TEST FILE	8	1	FLIGH	T DATA FIL	ES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX
BXT :			TEXT: S6	050518	<u>T33</u>	<u></u>		TOTAL COUNT		TO BE ANNOUNCED XXX
UP :			DUP: 56	050518.	033			POTASSIUM		TO BE ANNOUNCED XXX
W GPS:			RAW GPS:					URANIUM		
								THORIUM		XXX=FLIGHT NUMBER
LINE #	START	TI	MB	BOUNDA	RIES	FILE	ACCEPTED	INTERVAL		
	FID	START	END	START	END	NAMB	FID	BOUNDRY		COMMENTS
98.55						18035			HULL G.C.	
10 S	427		· · · · · · · · · · · · · · · · · · ·			19 B 39				·····
20 H	1000					19846				
30 S	1501		1			19855			G-105 20:70.	5 1550 - 1580
40 4	2048					20 8 05				
150 S	2529					20 B 13				
60 N	3079					20 B 23			GPS JUAN	<i>y</i>
370 S	3625					20 B 3 3				
80 N	4179					20343			GPS JUMPS	70 4280
390 S	4741					20353				
400 K	5212					21 802				
999.3 4	5735					21 B12	······································		ALULL Q.C.	· · · · · · · · · · · · · · · · · · ·
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						REX-	E GE	SICA HT L		
CLIENT: //7	PERIA	L HET	AL.	BLOCK # :	2	JOB: 612	26	PAGE	OF	TEST LINE CODES:
FLT #	014			DATE:	MAYS	196		OPERATOR:	DANIR	EM GND PHASE: XXX1
PILOT:	BOB ,	<u>M.</u>		0.A.T.: _	12°C	12 "		A/C REG:	ASTAR BI	EM GMD Q COIL: XXX2
BASE:	HOFE		_	QNH :	/			FUEL:	70%	_ EM NULL/Q AIR: XXX3
TAKE OFF:	15:10	<u>٢</u>		LAND:	17:15			FLT TIME:	2:05	_ GND SPEC BG, UR TH: XXX4
HBIGHT: _	200	2	-	VLF LINE:_	SEATT	TE .		VLF ORTHO:	MAINE	_ SPEC BG H20/AIR XXX5
EM FREQ:	P1	F2	F3		F4	F5	<u>} </u>	VIDEO TAPE	<u>+ 5</u>	SPEC TEST LINE XXX6
GND	TEST FILE	8		FLIGH	T DATA FIL	ES		SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7
TBXT :			TEXT: <u>5</u>	505057	<u>r 7</u> 20			TOTAL COUNT		TO BE ANNOUNCED XXX8
DUP:	<u> </u>		DUP: SE	05052	.1.020			POTASSIUM		TO BE ANNOUNCED XXX9
RAW GPS:			RAW GPS:					URANIUM	- <u></u>	
	(m) nm			POINTA	DIRC	PTTP	ACCEDEE	THORIUM		XXX=FLIGHT NOMBER
LINE #	FID	START	END	START	END	NAME	FID	BOUNDRY	-	COMMENTS
99835	1					22 R 15			Luui pr	
400 5	262					22 8 2 3				
420 N	405					27 R 34				
4305	1365	· · · · · · · · · · · · · · · · · · ·				27 B 43				
440 11	1809		+			22 B.CV				······································
400 5	1232					22 854				
4604	2615					23 B 06				
4205	2037	·····				23 B 14				
420 M	3456		-			22 7 2/				
490 5	3986					23 R 3/				· · · · · · · · · · · · · · · · · · ·
COO M	4.504					23 B 40	<u>+</u>			
TIO S	4900		+			23 R 4.P				
(2011	54.04		+			27 8 56				
999 2 211	5865					OBBO7				
<u>////.5 ×</u>	5000				<u> </u>	00007			NOLL CR.C	
ļ			+							
			+							
			+			-				
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}										······
						-				
[{								
	ANT	V LINP	REPT.OWN	SHOULD	HAVE T	HE LINE	NUMBER	INCREMENT	ED BY 1 FACH TT	ME
1	- 7 AAC 6			D						

CLIENT: IMPERIAL METAL				BLOCK # :	2	JOB: 6/	JOB: 6/26		DF	TEST LINE CODES:	
LT #				DATE: 1714 7 196			OPERATOR :	DANIR J.	EM GND PHASE: XXX1		
ILOT:	BOB 1	Y		0.A.T.: 11 °C / 10 °C			A/C REG:	ASTAR BI	EM GMD Q COIL: XXX		
.SE:	HOPE		_	QNH :	QNH: /				70%	EM NULL/Q AIR: XXX	
ARE OFF: 17:35 BIGHT: 200				LAND: 19:05 VLF LINE: SEATTLE				FLT TIME:	1:30	GND SPEC BG,UR TH: XXX4 SPEC BG H20/AIR XXX5	
								VLF ORTHO:	MAINE		
FREQ:	P1	F2	F	F3 F4 F5 <u>3TK</u>					5	SPEC TEST LINE XXX6 RADAR ALT CAL XXX7	
GND TEST FILES				FLIGH	T DATA FIL	LES		SPECTROMETER R.O.I.'S			
XT : TEX:			TEXT: S	XT: 56050600.712					<u></u>	TO BE ANNOUNCED XXX	
JP:			DUP: 56050600012					POTASSIUM	<u> </u>	TO BE ANNOUNCED XXX	
AW GPS:			RAW GPS:					URANIUM	<u></u>		
			<u> </u>				THORIUM		XXX=FLIGHT NUMBER		
LINB #	START	TI		BOUNDA	RIES	FILE	ACCEPTED	INTERVAL	4	CONVENTS	
U 4 2 2 C		START		BIARI		NAME	F ID	BOUNDRI	<u></u>		
10.52	7		<u></u>			00541			HULL QC.		
303	254		<u> </u>		<u> </u>	00 134 7					
404	754	<u></u>			ļ	OO BSE	· · · · · · · · · · · · · · · · · · ·		VERY WII	12Y	
505	1280		<u> </u>		<u> </u>	01805					
60 N	1783					01 B14			↓		
705	2225		<u> </u>		ļ	01 13 22			<u> </u>		
80 N	2689					01830			11		
99. 3N	3173		<u> </u>		<u> </u>	01843			NULL QC		
•											
		·····									
			1		1		<u>-</u>				
			1	1			·····				
			<u>† </u>	1			······		1	······	
			1							· · · · · · · · · · · · · · · · · · ·	
			┨	1					1		
								-		······································	
			+						+	· · · · · · · · · · · · · · · · · · ·	
					<u> </u>						
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						REX-	E GE	CALLER HT L				
CLIENT: BLOCK # :				JOB: PAGE OF			TEST LINE CODES:					
FLT #	01	6	_	DATE:	may 9	135		OPERATOR :		EM GND PHASE: XXX1		
PILOT:			-	0. A .T.:	/			A/C REG:		EM GMD Q COIL: XXX2		
BASE:	HOTE			QNH :	/			FUEL:		EM NULL/Q AIR: XXX3		
TAKE OFF:	<u> </u>	0		LAND:	12:0	ى		FLT TIME:	2:00	GND SPEC BG, UR TH: XXX4		
H B IGHT:			-	VLF LINE:				VLF ORTHO:		SPEC BG H20/AIR XXX5		
EM FREQ:	F1	F2	F3		F4			VIDEO TAPE #		SPEC TEST LINE XXX6		
GND	TEST FIL	BS	FLIGHT DATA FILES					SPECTROMETER	R.O.I.'S	RADAR ALT CAL XXX7		
EXT: 050301 7 50			TEXT:	50507	750		730	TOTAL COUNT		TO BE ANNOUNCED XXX8		
DUP:	JP :		DUP:					POTASSIUM	<u> </u>	TO BE ANNOUNCED XXX9		
RAW GPS:	AW GP8:		RAW GPS:					URANIUM _				
							THORIUM			XXX=FLIGHT NUMBER		
LINE #	START	TI		BOUNDAL	RIES	FILE	ACCEPTED 1	BOINDRY	4	COMMENTS		
1/0/1	1				5112	11.6.25		BOOMDAT				
160.1K						16005	<u></u>		GHO GC PH	45 C Q.C.		
770.75	221					13 003			14(1, ac c	- w = 7 w = c		
570 7	926				·	11 517						
600 N	800		 			5 3 26			A			
6105	7212	L				1.033			PS AUCI	A100 -7 LIVE		
620 H	1845					1.51						
6305	2221	2				VJB51	·		1× C04	OUT		
6306	-72	3				16020			CONT			
6404	2782	3				16023			289	v 2483		
sto s	3314					16033			4×.			
660 N	3655					16 840			Grs	1007PS		
399.34	1044	1				16049			NGLL RC.			
	1		DEELOUDI	GHOTT D	HAVE T	HE LINE	NIMPED	NOPEMENTE	D BV 1 FACH TH	P		
	AN	I LINE	KELTOWN	SHOULD	HAVE 1	UP TINE	NOWDER 1	INCREMENTE	D DI I BACH TIM	6		
CLIENT:				BLOCK # :		JOB:		PAGE O	F	TEST LINE CODES:		
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FLT #	17			DATE: /	MAY 91	96		OPERATOR :	EM GND PHASE:	XXX1		
PILOT:				0. λ .t.:		/		A/C REG:	EM GMD Q COIL:	XXX2		
BASE: TAKE OFF: 10 15 0				QNH :	/			FUEL:		EM NULL/Q AIR: XXX3		
			_	LAND: /	12:50	<u> </u>		FLT TIME:	2:00	GND SPEC BG, UR TH: XXX4		
HEIGHT: _				VLF LINE:		· · · · · · · · · · · · · · · · · · ·		VLF ORTHO:		SPEC BG H20/AIR	XXX5	
EM FREQ:	71	F2	F3		F4	F5		VIDEO TAPE #		SPEC TEST LINE	XXX6	
GND	TEST FILE	S		FLIGHT	DATA FIL	es		SPECTROMETER	R.O.I.'S	RADAR ALT CAL	XXX7	
TBXT :			TEXT:	0376	<u>F 56</u>			TOTAL COUNT		TO BE ANNOUNCED	XXX8	
DUP :			DUP: _			·····		POTASSIUM		- TO BE ANNOUNCED	XXX9	
RAW GPS:		<u></u>	RAW GPS: _			······	<u> </u>	URANIUM		-		
	1		<u>}</u>					THORIUM		XXX=FLIGHT NUMBER		
LINE #	START	TI		BOUNDAR	END RND	FILE	ACCEPTED	BOINDRY		COMMENTS		
9987 C	1	JIANI		DIAN		17051						
110,53					 , . <u></u>	7102						
670 2	-02				<u></u>	12 10-7			1 			
680 K	35F					18000						
	967					10 0,0					<u></u>	
400 H	(25 +				<u> </u>	12 818	<u></u>				<u> </u>	
HOS	1350				<u> </u>	10 020						
720N	1345					8027						
<u> 7305</u>	660					18024			·			
740 K	295		ļ			1.0 0 22						
7105	1905					18032						
+60N	RO21					18033						
7705	2(1)					18'0 3+						
780 H	2183					18039					<u> </u>	
7905_	2251				. <u>.</u>	18040	<u> </u>		····			
800N	2302					BB 42				······································		
8105	2343					181343	. <u></u>		H (YOBY		
820H	7388					18344			He i	xcny		
705						18348						
80 N	2548					13605						
an S	2719					19108						
Ang KI						13816		· ·				
A A C	2685					19672			44434	4420 19857		
A.1 0 2			+			12222			<u> </u>			

					·····	SCINTREX-CAP	RIBE GE, HYSI	CAL FLIGHT LOG		
CLIENT:				JOB:		PAGE C)F	TEST LINE CODES:		
ьт 🛊 🔔				DATE:	NAY	196		OPERATOR :	·····	_ EM GND PHASE: XXX
ILOT:				0. A .T.:	/	···=·		A/C REG:		- EM GMD Q COIL: XXX
ASB:	12.	15	_	QNH:	15.10			FUEL:	1.50	- EM NULL/Q AIR: XXX
AKE OFF:	_12	* 2	-	LAND:	13:10			FLT TIME:	1.32	_ GND SPEC BG, UR TH: XXX
BIGHT: _	¥1			VLF LINE:				VLF ORTHO:	6	_ SPEC BG H20/AIR XXX
A FREQ:	F1	F4	F.					VIDEO TAPE #		
GRD BYT.	1651 FIL	50	TRYT.	09/ 9 7	57	55		TOTAL COUNT	R.U.1. 5	TO BE ANNOLINCED
БАТ:								POTASSUM		TO BE ANNOUNCED
			PAN CIPS.					UPANTIM		TO BE ANNOUNCED ANA
NH GPDI	-,		· ·				·	THORIUM		XXX=FLIGHT NUMBER
LINE #	START	TI	1B	BOUNDA	RIBS	FILE	ACCEPTED	INTERVAL		
	FID	START	BND	START	BND	NAMB	FID	BOUNDRY		COMMENTS
198.35	1					20822				
DIO E						22628			CTRL	
020 4	519					2007				· · · · · · · · · · · · · · · · · · ·
30 H	727					20843				
405	1220					20 0 53			GPS 20	TAS
SON	1910					21806			GAS J.M.	j
1605	2382					21 B14			MULL	F(> 24JD CAS JUDA
170 H	3016				·	21826				
IPOS	252h					K1 B 35			· · · · · · · · · · · · · · · · · · ·	······································
100 H	4002					21644			······································	
r49.34	btty					7/ A TC	·			·····
1777N	(133)					- 17 55			NULL CKL	
							·····		· · · · · · · · · · · · · · · · · · ·	
									· ···=·	
							<u> </u>			
			<u> </u>							
									· · · · · · · · · · · · · · · · · · ·	
								•		
	AN	Y LINE	REFLOWN	SHOULD	HAVE T	HE LINE	NUMBER]	NCREMENTE	D BY 1 EACH TI	ME

					SCINTREX CAN	BE G	ICA THE HT LET	
CLIENT:			BLOCK # :		JOB: 61	26	PAGE OF	TEST LINE CODES:
PLT # <u>/.9</u>			DATE:	AAY II	196		OPERATOR:	EM GND PHASE: XXX
PILOT:			0. A.T.:	/	/		A/C REG:	EM GMD Q COIL: XXX
BASE:		_	QNH :	/			FUEL:	EM NULL/Q AIR: XXX
TARE OFF: 16 :2	0	_	LAND:	18:00	>		FLT TIME:	<u>7:50</u> GND SPEC BG, UR TH: XXX
HBIGHT:		-	VLF LINE:				VLF ORTHO:	SPEC BG H20/AIR XXX
EM FREQ: F1	F2	P	3	F4	F5		VIDEO TAPE #	<u>-7</u> SPEC TEST LINE XXX
GND TEST FILE	S T		FLIGH	T DATA FIL	ES		SPECTROMETER R.	0.I.'S RADAR ALT CAL XXX
TEXT: 0511 22	705	TEXT:	1123	<u>, TIO</u>	20170	/	TOTAL COUNT	TO BE ANNOUNCED XXX
DUP :		DUP:					POTASSIUM	TO BE ANNOUNCED XXX
RAW GPS:		RAW GPS:		<u></u>			URANIUM	
			<u></u>		<u></u>		THORIUM	XXX=FLIGHT NUMBER
LINE # START	TI	MB	BOUNDA	RIBS	FILE	ACCEPTED	INTERVAL	
FID	START	END	START	END	NAME	FID	BOUNDRY	COMMENTS
190.1 KI 1	- <u></u>	<u> </u>	·		22 5 33	···		
9983 N 1	- <u></u>				23 8 22		_	
10 K 45								
205 457					23 34/			
30 N 596					23 844			
40 5 712					23057			
50 N 878					23851			
695 1075	- <u></u>				23 8.56			
70 N 1181		1			00800			
ROS MO		<u> </u>			10803			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
KA 11 1515	·			<u></u> .	20 BDG			· · · · · · · · · · · · · · · · · · ·
10 A 1013	<u></u>	<u> </u>	}		10000			
1013 1030		·{	<u> </u>		DO B IIL			
IVA ISCS			 		00017			
120 5 1776		<u> </u>	<u> </u>		10017			
150 N KIJG			 		DOB LO			······································
1403 (313	- <u></u>	<u> </u>	ļ		00925			
150 11 2488			ļ		00329			
1605 2666		l			00033			
1704 2841	<u>~</u>		<u> </u>		60B37			2960 "AUSES
1885 3170					02343			3364 HAUSES
190H 3378					00071			
200 5 3584	·······	1			00333	· · · · · · · · · · · · · · · · · ·		_3690
4243 1		1			BIBAI			4111 (
<u> </u>	TITNE	REFLOWN	SHOULD	HAVE 7	HE LINE	NUMBER	INCREMENTED	BY 1 EACH TIME

									······································	
CLIENT:				BLOCK # :			6)F	TEST LINE CODES:
'LT #	20			DATE:	14 1 11	_/_0		OPERATOR:		EM GND PHASE: XX
ILOT:		<u></u> .		0.A.T.:				A/C REG:		
ASE:	18:2	2	_	QNH:	/			FUEL:	1:35	EM NOLL/Q AIR: XX
AKE OFF:				LAND:	19 1	10		FLI TIME:		GND SPEC BG, OK IN: XX
M PPPO.	P1	 F2		APE PINE:	 F4	F5		VIDEO TAPE #		SPEC TEST LINE XX
GND	TROT PTLE		<u>·</u> ·	FLIGHT	DATA FI			SPECTROMETER	R.O. I. 'S	RADAR ALT CAL XX
BXT:			TEXT:	12 0	11 T12			TOTAL COUNT		TO BE ANNOUNCED XX
 UP 1			DUP:					POTASSIUM		TO BE ANNOUNCED XX
AW GP8:			RAW GPS:					URANIUM	<u></u>	
								THORIUM		XXX=FLIGHT NUMBER
LINE #	START	TI	MB	BOUNDAR	RIBS	FILE	ACCEPTED	INTERVAL]	
	FID	START	BND	START	END	NAME	FID	BOUNDRY		COMMENTS
198.3 ·	1					01836			Huce.	
H OL	170					01841				
2205	388					01845				ent
2304	632					01850				
1405	841					01 854				
2 Fo H	1065					01059				
1605	1173					02803				
270 N	1500				·····	02008				
1805	1717					02812				
190 N	1944					OZBIG				
3005	2156		1			02320			· · · · · · · · · · · · · · · · · · ·	······································
310 N	2372					02 8 24				
32.05	7505		1			02027				······································
33,0 KL	2789					021331				·····
3605	2990		1			22335				·····
35011	3197					02333			T	
3605	3376					07 8 43				
88935	3521			11		02 6 18			41.411	······
			1							
		<u></u>	1					•		
										·····
			-							

						SCINTREX-CAR		ICAL PEIGHT LOG		
LIENT:				BLOCK # :		JOB: 612	6	PAGE OF	:	TEST LINE CODES:
LT #	21			DATE:	147 1	د		OPERATOR :		EM GND PHASE: XXX1
ILOT I	BOB	7	<u> </u>	0.A.T.:	14°C	/		A/C REG:		EM GMD Q COIL: XXX2
ASE:	HOASF	LY	_	QNH :	/			FUEL:	······································	EM NULL/Q AIR: XXX3
AKE OFF:			_	LAND:				FLT TIME:		GND SPEC BG, UR TH: XXX4
BIGHT:	200			VLF LINE:				VLF ORTHO:		SPEC BG H20/AIR XXX5
M FREQ:	71	F2	P.	3	F4	F5		VIDEO TAPE #		SPEC TEST LINE XXX6
GND	TEST FILE	8		FLIGH	T DATA FIL	LES		SPECTROMETER R	R.O.I.'S	RADAR ALT CAL XXX7
EXT: 60	251222	703	TBXT:	1220	14			TOTAL COUNT		TO BE ANNOUNCED XXX8
UP :			DUP: -					POTASSIUM		TO BE ANNOUNCED XXX9
AN GPS:			RAW GPS:					URANIUM		
								THORIUM		XXX=FLIGHT NUMBER
LINE #	START	TI		BOUNDA	RIES	FILE	ACCEPTED	INTERVAL		CONTRACTO
1015	10	START	END	SIARI	END.	20 RIDE		BOONDRI	PUACE	
10.12						2.0.24			· ~ //SE	O.C. Loum
78-54	1					6847				
HOF	477		<u> </u>			638				·····
805	671		ļ			20 842			····	
90H	836		<u> </u>			20 845				······
200	1007					20 948				
ION	1172					20 BSZ				1 1310 4-52
105	1352					10855				
JON	1532					20 059				
THRS	1225					21 803				
TON	1842		1			21006				
6005	2020					21609	· · · · · · · · · · · · · · · · ·			
62011	22 54					21 B13				
2005	16 2	· ·				2/ 8.2				11A112- 201630
	2737		+			21 4 20				125
JU H	670	······································				2,00				
5005	1940					KI DLJ				
SIO H	2135					21 15 2 5				
5205	5330					21335				LIQUS EMD
530H	3512	•				21 37				HAUS GEETSTORT
5405	1058					21840				
Y O'Z	3878					21 8 43		•		
5605	1076					21847				ins Junns
4 0 KZ	in 50					21051				
	ANY	LINE	REFLOWN	SHOULD	HAVE 1	HE LINE	NUMBER	INCREMENTED	BY 1 EACH	TTME

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Scintrex Lin Airborne Sy	nited stem	s & Surve	eys Div	isio		WEEKI	Y OPER	ATION	S REPO	RT					
lob #: 6126 Client: <u>IMPERI</u> Area: <u>Hopê</u>	AL M BC	ETALS	•			Base: Aircraft:	HOPÉ ASTAR	BI	- Week Ending: <u>APRIL_28, 1996</u> -						
Date	Fit #	Area		Flight	Time	Produ	ction	A 10	Down	Time		Comments			
	2	HOPE	Total	Ferry	Survey	FIOWN	Accepted			Diurnai	WX ()				
APR, 22	3	HOPÉ	1.6	1.1	.5	47.8	0.0	\oplus	$ \oplus$	\oplus	\oplus	EM NOISE PRUBLEM			
uesday			1					(\mathbf{r})	\oplus	\oplus					
HYK, Z.) Vednesday															
APR. 24								Θ	Θ	Θ					
hursday APR 25								\oplus	\oplus	\oplus	•				
Friday								<u></u>		Φ					
APR, 26							<u> </u>	\square	\cup	\square					
Saturday APR. 27	45	HOPE HOPE	1.5	.9 .6	3,	369 208	0.0 0.0	\oplus	\oplus	\oplus	\oplus	EM NUISE PROBLEM			
Sunday APR, 28	6 7	HOPE HOPE	1.5	,7 4	.8 1.3	204 419	0.0	\oplus	\oplus	\oplus	\oplus	ÊM NJISE PRUBLEM			
Maakly Tetala	10	HOPE	1.6	1.7	1.1	226 1	12.6		<u>}</u>		·				
revious Totais	1			-	-	-	-	1							
Job Totala	T		10.6	52	5.4	226.1	12.6								

Scintrex L	imited	• •				WEEKI	Y OPER	RATION	S REPO	RT		
Airborne : Job #: <u>612</u> Cilent: <u>IMP</u> Area: <u>HOP</u>	System .6 VERIAL I VE. BC	METALS	eys Div	/15101	n	Base: Aircraft:	HOPE ASTAR	<u>B1</u>	-	Week Endi	ng: <u>////y</u>	1 5, 1996
Date	Fit#	Area	Total	Flight	t Time	Produ	ction	A/C	Down	Time	WY	Comments
Monday			TOCEL	Fully	Jurvey	TIOWII	Accepted					
Δρε 79								\oplus	\oplus	\oplus	U	
HIN. 21												
luesday			_					Ω	\square	\square		
APR. 30				 	ļ			$ $ \forall		Ψ.	\bullet	
					<u> </u>		 					
weanesaay								Θ	Θ	$ \oplus $		
MAY I							1	1				
Thursday								\square	\square	\square		
AAAN 7								\square	\square			
117 2			_				ļ		 			
Friday	9	HOPE	<u> .7</u>	1.7	0.0	0,0	0.0	\square	\square	\square	\square	L
MAY 3	10	HOPE	1//	1.5	1.2	42.0	42.0				Ψ	
Coturday		HOLE	1.0	1.0	1.0	42.0	72.0			$\overline{\mathbf{A}}$		
Saturday				<u> </u>			1	Θ	Θ	$ $ \oplus $ $		
MIAY 4								1				
Sunday	12	HOPE	1.6	6	1.0	38.8	29.4	\square	\square	\square	\square	
11AV 5	13	HOPE	1.9	,3	16	96.2	962		\square		Φ	
MA7 J	14	Hore	2.1	.5	1.0	116.9	1169	ł				
		HOPE	1.5	1.6	1.9	58.0	580	 	<u> </u>		<u> </u>	
Weekly Total	•	<u> </u>		13.0	1.3	2739	12 6	1				
Previous Tot	als		21 7	90	<u>12.7</u>	6200	3971	1				
JOD LOCHIS		L	1011	1.0	1.001	1020,0	<u>1.77.1.1</u>	J	L	L		1
Crew Chief: Data Process	<u>Dave</u> Nor: <u>TDHN</u>	HAYWARD V CUARIE				Pilot: Engineer:	PAUL W ANDRES	/ Boils LESSARD	<u></u>	Operator:	PAMIR	JAMAKOSMANOJIC

Scintrex Lin Airborne Sy	Scintrex Limited Airborne Systems & Surveys Division							RATION	S REPC	ORT		
Job #: <u>6126</u> Cilent: <u>140PERI</u> Area: <u>Hope</u> ,	ob#: <u>6126</u> illent: <u>IAPERIAL META</u> LS vrea: <u>Hope, Horsefl</u> y BC						<u>Hore</u> , u Astar	<u>villIAMS</u> BI	_LAKE -	Week End	ing: <u>MA</u>	<u>Y 12, 1996</u>
Date	Fit #	Area		Flight	Time	Produ	iction		Down	Time		Comments
			Total	Ferry	Survey	Flown	Accepted	A/C	Equip.	Diurnal	WX	
Monday								\square	\square			
MAY 6					<u> </u>			\cup	\cup	$ $ \forall		
Tuesday								\square	\square	\square		
MAY 7										\blacksquare		
Wednesday					[\square		\square		
AAN O									$ $ \square	$ $ \oplus $ $		
NIAT O							<u></u>		L			
Thursday	16	HOPE	2.0.	.9	1.1	76.8	76.8	Δ			Δ	
MAY 9	17	HOPE	2,0	.8	1.2	<u>98.i</u>	98.1	∇		\square	Θ	
	18	HOPE	1.9	.6	1/3	86,8	86.8	ļ				
Friday					<u> </u>			\square	\square	\square	\square	TRAVEL FROM HOPE TO WILLIAMS LAKE
MAY 10			 		<u> </u>		+					
Saturday	19	HOREFLY	1.8	.8	1.0	126.0	126.0	$\overline{\Phi}$				
	20	HORSEFLY	1,6	.0	10	126.1	126.1	$ \Psi $	$ $ \oplus	$ \oplus $	$ $ \oplus	
MAY 11												
Sunday	21	HURSEFLY	2.2	.5	1.7	166.9	166,9	\square	\square	\Box	Μ	
MAY 12	22	HORSEFLY	1.7	18	.9	69.9	69.9			T	Φ	
Markhy Totala		· · · · · · · · · · · · · · · · · · ·	132	50	82	750 in	7506		+	+		
Previous Totals			21.7	90	12.7	6200	397 1	1				
Job Totals			34.4	14.0	209	1370.6	1147.7	1				
		.	•i-•••	*******								······································
Crew Chief:	DAVE	HAYWARD	-			Pilot:	BUB M	10000		Operator:	DANIR	JAMAKOMANOVIC
Data Processor:	JOHN	CURRIE	-			Engineer	- ANDREE	LESSAR	LD LD	•		

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430 902
UR INTERVALS: 2.0 rit 10.0 rit 50.0 rit VVERSE LINE WITH RESPECT TO NORTH : 0 degrees -27
Ster 1:220000 750 11200 11250 1500 1750 (meters)
TALS CORPORATION
NETIC INTENSITY MAP
INTREX LUMITED

SAMPLE INTERVAL: 10 readings second RADAR ALTIMETER: BENDIX-KING KRA-10A GPS SAMPLE INTERVAL: 1 reading //second GEOLOGICAL SURVEY BRANCH

DATES FLOWN: April 20 - May 9, 1995 MEAN TERRAIN CLEARANCE: 60 metres TRAVERSE LINE SPACING: 100 metres

LEGEND:







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