AMPHORA RESOURCES GEOPHYSICAL REPORT ON AN AIRBORNE MAGNETIC AND VLF-EM SURVEY STELLA, RAE, & LINDA LAIMS SKEENA MINING DIVISION NTS: 104B/8E LATITUDE: 56 09'N LONGITUDE: 130 25'W AUTHOR: Jeffrey C. Murton, B.Sc., P.Geoph.

DATE OF REPORT: MAY 2, 1990

LATITUDE : 56° 2400"

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INTRODUCTION:

On January 13, 1990 an airborne reconnaissance magnetic and VLF-EM survey was conducted over the Stella, Rae, and Linda claims (referred to in this report as the SRL claims or the SRL claims or the SRL claim group) by Western Geophysical Aero Data Ltd. for Amphora Resources. The property is centred over or adjacent to Tippy Lake and Canoe Glacier approximately six kilometres SSW of Mount Knipple and fifty kilometres north of Stewart, B.C. (Figure 1).

The intention of this survey is to direct further exploration to favorable target areas and to assist in the geological mapping of the property. Approximately 37.6 line kilometers of airborne magnetic and VLF-EM data have been collected, processed, and displayed in order to evaluate this property. **PROPERTY:**

The SRL claim group consists of 56 units in the Skeena Mining Division (Figure 2) and is summarized as follows.

Claim Name	Record Number	of units	Record Data
Linda	5782	18	Feb 4,1989
Rae	5855	18	Feb 4,1989
Stella	5856	20	Feb 4,1989

LOCATION AND ACCESS

The Stella, Rae, and Linda claims are located fifty kilometres north and eight kilometres east of Stewart, B.C. There is yearround highway access to Stewart. Property access was gained by a thirty minute helicopter charter to the Tippy Lakes area. AREA HISTORY

Mineral exploration in the Stewart-Unuk River area began in the early 1890's when placer miners on their way out of the Cariboo prospected the Unuk River and its tributaries. In 1898, an expedition of placer miners handed at the head of Portland Canal



and proceed to explore the Bear River and Salmon River valleys. The discovery of mineralized float and vein material led to an influx of "hard-rock" prospectors. The townsite of stewart was established (named after the prospecting family of "Pop", John and Bob Stewart), and by 1910 most of known mineral occurrences in the Stewart area, including the future Silbak Premier mine, had been discovered.

Mine development over the next three decades resulted in slow but steady growth of the Stewart area. In particular, the discovery of high-grade silver and gold ore at Premier in 1918 led to the development of one of the richest mineral deposits in British Columbia and the incentive for intensive exploration and development in the Salmon River basin.

Most of the small mines in the Stewart region were worked out by the 1940's except for the Silbak Premier mine which continued through to the 1970's. Total production of the Premier group consisted of 4 million ounces of gold, 41 million ounces of silver, 4 million pounds of copper, 52 million pounds of lead and 19 million pounds of zinc, making it the second largest silver producer (after Sullivan) and the third largest gold producer (after Bralorne-Pioneer and Rossland) in B.C. The development of the Granduc massive sulphide orebody in the Unuk River area northeast of Stewart and construction of the Cassiar-Stewart-Terrace highway maintained the growth and exploration activity of Stewart area during the 1960's and 1970's. Significant the discoveries in the Iskut River - Stikine River areas north of Stewart have led to an increased intensity of mineral exploration activity in recent years.

Almost all of the early mineral discoveries in the Stewart-Unuk River area have been found by prospecting gossans sighted from accessible stream or river valleys in areas of negligible vegetation. Recent discoveries have results from prospecting mineralized showings revealed by ablating glaciers (i.e. Granduc

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AMPHORA RESOURCES

KNIPPLE LAKE AREA

CLAIMS MAP

N.T.S. 104A/5 & 104B/8

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Mine). Exploration is hampered by a dense vegetation at low elevations and snow cover at high elevations. Soil geochemistry is impractical in most areas due to a lack of suitable soil cover. Hence, the best approach to mineral exploration in the stewart-Unuk River area is a combination of geological and geophysical surveying to discover unknown hidden deposits, and detailed reappraisal of known showings using geophysical and geochemical techniques together with modern geological concepts of ore genesis.

REGIONAL GEOLOGY

The Stewart-Unuk River area is composed of three distinct tectonic zones of Mesozoic to Cenozoic age along the western margin of the Cordilleran (Figure 3). From west to east they are: the Coast Plutonic Complex or Crystalline Belt, the Stewart Complex and the Bowser Basin. The Stewart Complex is a deformed belt of volcanic, volcaniclastic and sedimentary rocks of Upper Triassic to Middle Jurassic age which extend from Alice Arm in the south to the Iskut River in the north. These rocks are in intruded contact with Middle Jurassic to Eocene felsic plutonic rocks of the Coast Plutonic Complex to the west, and unconformably underlay the Upper Jurassic to Cretaceous marine clastic sedimentary rocks of the Bowser Basin to the east. The Stewart Complex is one of the most important metallogenic regions in British Columbia.

Stratigraphic nomenclature of the Stewart Complex and Bowser Basin has been adopted from Grove (1986) following modifications from Grove (1971). The oldest rocks of the Stewart-Unuk River area are the Upper Triassic volcanic conglomerates, sandstones and siltstones comprising the Takla Group near Unuk River. In the absence of correlatable fossil evidence, the distinction between these Takla Group volcaniclastics and the overlying Hazelton Group volcaniclastics in not conclusive.

The lowest member of the Jurassic Hazelton Group is the Lower

VOLCANIC AND SEDIMENTARY ROCKS (Note: No stratigraphic order is implied within units)

QUATERNARY

6 UNCONSOLIDATED SEDIMENTS: Alluvium, glacioficial deposits, landslide debris (not shown)

TRIASSIC TO JURASSIC

HAZELTON GROUP

MIDDLE JURASSIC (TOARCIAN TO BAJOCIAN)



SILTSTONE SEQUENCE (Salmon River Formation): Dark gray, well bedded situations and fine sandstone

- 5a Basal, lossliterous, pyritic wacke
- 5b Rhythmically bedded sittstone
- 5c Thicky bedded sandstone
- 5d Limestone lenses

LOWER JURASSIC (TOARCIAN)



FELSIC VOLCANIC SEQUENCE (Mount Diworth Formation): Light weathering, intermediate to felsic pyroclastic rocks, including dust tuff, crystal and lithic luff, and lapilit tuff. Locally pyritilerous (5 to 15%) and gossanous. Minor chalcedonic quartz veins locally

- 4a Massive to bedded airtail tuffs
- 4b Variably welded ash flow tuffs
- 4c Knipple Porphyny: coarse white glomeroporphyntic plagloclase phenocrysts set in grey decitic-andesitic groundmass

LOWER JURASSIC (PLIENSBACHIAN TO TOARCIAN)



PYROCLASTIC-EPICLASTIC SEQUENCE (Betty Creek Formation): Heterogeneous, red, green, purple and grey, bedded to messive pyroclastic and sedimentary rocks

- 3a Massive, green and grey andesitic to decitic tull, lapilli tull, tull breccie and minor flows;
- 3ah Hematlic mudstone seams within 3e
- Sb Bedded, heterogeneous, red, green, and grey volcanic breccis, lepill k/l, crystal and lihic k/l, commonly hematilic
- Sc Basalic to andesitic pillow leves
- 3d Alkins Porphyry: homblende and feldspar porphyritic andesite
- 3e Messive grey arkosic rocks and greywacke
- St Bedded, hematitic siltstone, sandstone and conglomerate; locally lossilitorous

LOWER JURASSIC (HETTANGIAN-PLIENSBACHIAN)



ANDESITE SEQUENCE (Upper Unuk River Formation): Green and grey, rarely purple, Intermediate to mafic pyroclastics and flows with minor interbeds of sillistone and wacks

- 2a Medium to dark green, K-feldeper and plagloclass ± homblende porphyritic trachyandesite tuffs and ilows
- 26 Grey and green plagloclase porphyritic andesite
- 2c Dark green, homblande ± auglie porphynlic basal-andesite
- 2d Dark gray mythmically becoded sitistions (turbidite)
- 28 Grey well-sorted arkosic wacks, greywacks and conglomerate

UPPER TRIASSIC TO LOWER JURASSIC (NORIAN TO HETTANGIAN)



LOWER SEDIMENTARY SEQUENCE (Lawer Unuk River Formation): Brown and grey mixed sedimentary rocks with tuffeceous interbeds

- ta Immeture arkoaic and Mhic wache
- ib Sitzione
- 1c Polymictic conglomerate
- 1d Tuillie
- te Andesitic pyroclastics

GOSSANOUS ALTERATION ZONES



Pyrite-quartz-sericite \pm carbonate \pm clay; locally foliated to achistose

·///// Disseminated pyrite



Jurassic Unuk River Formation consisting of green, red and purple volcanic breccia, conglomerate, sandstone and siltstone, pillowed lava and volcanic flows, and minor crystal tuff, limestone and chert. The Unuk River Formation is uncomfortably overlain by the Middle Jurassic Betty Creek Formation of predominantly volcanic breccia, conglomerate, sandstone and siltstone, which, in turn, is uncomfortably overlain by siltstone, greywacke, sandstone and argillite of the Salmon River Formation. Grove (1971) referred to the Unuk River Formation as the Hazelton assemblage, and the Betty Creek and Salmon River Formation as the Bowser assemblage.

The Upper Jurassic Nass Formation overlies the Salmon River Formation to form the uppermost constituent of the Bowser basin. The Nass Formation consists of a thick sequence of marine clastic sedimentary rocks (siltstones, greywackes, sandstones).

In addition to the volcanic epiclastic and sedimentary rocks of the Unuk River, Betty Creek and Salmon River Formations, the Stewart Complex is also partially composed of their cataclastic and metamorphic equivalents. Cataclasite and mylonite are found near the intruded contract of the Late Jurassic Texas Creek granodiorite. Phyllites, schists and gneisses are confined to the intruded contact areas with the Tertiary Hyder quartz monzonite and Boundary granodiorite.

The Coast Plutonic Complex is composed of multiple phases of intrusion from Upper Triassic quartz diorite in the Unuk river area to Middle Jurassic granodiorites and Tertiary quartz monzonites in the Stewart area. Plutonic satellites of quartz monzonite, quartz diorite and granodiorite are also found toward the centre of the Stewart Complex. Dykes and sills of similar composition are found throughout the Stewart Complex but particularly in well defined zones cutting across the regional geologic trends.

Mineralization in the Stewart area is confined primarily to the



KNIPPLE LAKE AREA

AEROMAGNETIC MAP

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Lower and Middle Jurassic Stewart Complex: Unuk River, Betty Creek and Salmon River Formations. Grove (1986) recognizes four classes of mineral deposits such as the Silbak Premier Mines, stratiform massive sulphide deposits such as the Hidden Creek Mine in the Anyox area, discordant massive sulphide deposits such as the Granduc Mine, and Tertiary porphyry copper-molybdenum deposits such as the Mitchell-Sulphurets property. The most important of these, in terms of number of deposits and quantity of ore, are the fissure and replacement vein deposits. However, in terms of exploration potential, all types of deposits have equal importance.

PROPERTY GEOLOGY

The property geology is wholely contained within the Jurassicaged Hazelton group. The Stella claim and the western edge of the Linda claim consists of the Lower Jurassic Betty Creek Formation; a pyroclastic-epiclastic sequence with hematitic mudstone seams within massive green to grey andesitic to dacitic tuffs, breccia, and minor flows. The eastern portion of the survey, spanning at least 50 percent of the Rae and Linda claims, is dominated by the Middle Jurassic Salmon River Formation - a sandstone/siltstone sequence with limestone lenses. The boundary between the Betty Creek and Salmon River Formations is a sinuous band of felsic massive to bedded ashfall tuffs - interpreted to be a constituent of the Lower Jurassic Mount Dilworth Formation (Figure 3, from BCEMPR Map 1988-4).

AIRBORNE MAGNETIC AND VLF-ELECTROMAGNETIC SURVEY:

This geophysical survey simultaneously monitors and records the output signals from a Barringer Research proton precession magnetometer and a Herz dual-frequency VLF-EM receiver. The sensors are installed in an aerodynamically stable "bird" which is towed thirty metres below a helicopter. Fixed to the helicopter skid is a shock and gimbal-mounted, downward-facing video camera. A video signal is recorded and later reviewed and correlated with a recent air photograph in order determine the

precise locations of the flight paths. The elevation of the helicopter above the ground is recorded by a radar altimeter and monitored by the pilot and navigator in order to maintain a constant ground clearance.

A computer records readings of the magnitude of the earth's magnetic field and of the fields induced by two powerful VLF-EM transmitters (located in Annapolis, Maryland and Seattle, Washington). This data, the time and date it was observed, radar altimeter values, and survey fiducial points are all superimposed on the video image and recorded on both video cassettes and 3.5 inch computer diskettes.

Data quality is assured by the survey operator monitoring a realtime display of direct and unfiltered recordings of all the geophysical output signals while a navigator directs the helicopter pilot from an air photograph.

Magnetic (Figures 5 & 6) data is useful for mapping the position and extent of regional and local geological structures which have varying concentrations of magnetically susceptible minerals. Many lithological changes correlate with a change in magnetic signature.

VLF-EM data is useful for mapping conductive zones. These zones usually consist of argillaceous graphitic horizons, conductive clays, water-saturated fault and shear zones, or conductive mineralized bodies. The VLF-EM data is presented as contoured total field data overlain by quadrature (out-of-phase component) profiles. Conductors are located at inflection points or a change in sign (cross-over) of the quadrature component over a local total field VLF-EM high.

In a typical VLF-EM survey, satisfactory conductor coupling and imaging occurs only within 45° of the primary field selected (in the direction of the transmitter). For maximum coupling, and in

turn, imaging, a transmitter should be selected in the same direction as geologic strike. **DATA PROCESSING:**

The video image, with superimposed line and fiducial identification, recording times, and the recorded data, is correlated with both the navigator's and operator's field notes and topographic features observed from an air photograph. The "recovered" flight paths are digitized to obtain relative x and y positions which are then combined with the data. Subsequently, all geophysical data is filtered to remove spurious noise bursts and chatter, and then plotted as flight path profiles and contour maps for each of the sensors.

Both the total field magnetometer signal and the total field and quadrature components of VLF-EM signal are sensitive to topographic changes and bird oscillations. Short wavelength (less than 200 meters) oscillations, are attenuated by filtering the VLF-EM data with a digital low-pass filter. Long wavelength effects (anomalies greater than 2000 metres), attributed to broad topographic features, are also removed from both the VLF-EM channels by high-pass filtering.

DISCUSSION OF RESULTS:

The Stella, Rae, and Linda claims were surveyed on January 28, 1990. Over 37.6 line kilometers of airborne magnetic and VLF-EM survey data have been recorded and evaluated. Survey lines were flown approximately east-west in a Hughes 500D helicopter with an average spacing of 200 metres. The geophysical survey data were recorded on average three times per second for an effective sample interval of 15 metres. The sensors were towed below the helicopter with an average terrain clearance of 30 metres where possible. The survey area covered contains many areas where terrain clearance of over 150 metres was encountered.

VLF-EM conductors corresponding to Seattle and Annapolis transmitters have been interpreted and numbered on the Geophysical Interpretation Map (Figure 11).

The VLF-EM response shows a number of nearly north-south, approximately-parallel conductors that intersect airphoto drainages and lineations at oblique angles (with the exception of conductor S4). Geologically the conductors may represent postdepositional faulting. Overall, the conductors observed are good. Good conductors exhibit strong in-phase crossovers, the quadrature usually lags by up to 90 degrees or mirrors the inphase response, and the total field is a local high. Conversely, for poor conductors, the quadrature response nearly mimics the in-phase and there are no strong in-phase crossovers and, in some cases, no associated total field anomalies. Poor conductors may be associated with conductive overburden, weathered bedrock, and conductive effects in swampy areas.

The intensity of the conductors imaged by the Seattle, Washington transmitter (Figures 7 & 8) are greater than those induced by the Annapolis, Maryland transmitter (Figure 9 & 10). The Annapolis and Seattle total field contours (Figure 8, 10) have a contour interval of 1.0 percent. This most-likely due to the nearer Seattle transmitter rather than improved coupling.

The significant topographic changes on the property

contribute up to an additional 150 metres of ground-to-sensor In any airborne geophysical survey an increase in separation. the ground-to-sensor distance by five metres is noteworthy and by ten metres is significant. The effect of separation increases of this magnitude upon the magnetic and VLF data responses is a marked reduction in measurable intensity, in other words, the attenuation of the geophysical data and a corresponding appearance of a mappable magnetic or VLF-EM low. For example, the VLF-EM low on the western end Line 3, Figure 9, correlates with a 100 metre increase in ground-to-sensor separation. In

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many geological settings the location of creeks and rivers correspond to the surface expression of fault and shear zones, or lithological contacts and are likely areas to observe significant VLF-EM conductors. In this airborne survey, there is little correspondence of tributary creeks with conductors. It is likely that any VLF-EM response has been "over-printed" or attenuated by increased separation effects thus masking conductors that might be observed on a ground survey.

The magnetometer response is minorly variable with over 500 nanoTeslas of range over the survey area. There is a magnetic maximum of over 57740 nanoTeslas on Line 8, and a magnetic low of 57240 nanoTesla on the western end 15. There is marked region of elevated magntic susceptability which corresponds to an area with in the previously mapped Betty Creek Formation (Figure 11). Overall, the magnetic response does not show the contacts between the previously published Betty Creek, Salmon River, and Mount Dilworth Formations.

RECOMMENDATIONS

The significant VLF-EM conductors and the variablity of the magnetometer data pose many questions of the geology of the A more complete picture of the Stell, Rae, and Linda claims. local geology is necessay to interpret the geophysical data both lithologically and structurally. It is recommended that a follow-up program of geological mapping and soil sampling be initially undertaken on the property. The position and presence of the faults should be verified with the interpreted conductors of this program: Additionally, the airborne data should be reinterpreted with the compiled geological information. Subsequent high-resolution ground-based re-interpretation, a to the magnetometer and VLF-EM ground survey should be conducted over the refined areas of interest.

Respectfully submitted,

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Jeffrey C. Murton, B.Sc., P.Geoph.(APEGGA)

REFERENCES

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Woods, D.V., and Hermary, R.G., Geophysical Report on the Chris 1-4 Claims, Skeena Mining Division, 15 July, 1988

Grove, E.W., 1986, Geology and Mineral Deposits of the Unuk River - Salmon River - Anyox Area, B.C., Bulletin 63, BCMEMPR

STATEMENT OF QUALIFICATIONS

NAME: MURTON, Jeff C. Geophysicist PROFESSION: EDUCATION: B.Sc - Geophysics Major University of British Columbia Society of Exploration Geophysicists PROFESSIONAL ASSOCIATIONS: of Professional Engineers, Association Geologists, and Geophysicists of Alberta 1984-88 - Geophysicist, Interactive Graphics EXPERIENCE: with Western Geophysical Company of Canada Ltd. in Calgary, Alberta. 1988 - Geophysicist with White Geophysical Inc.

HERZ TOTEM - 2A VLF-EM SYSTEM

Primary Source: Magnetic field component radiated from VLF radio transmitters (one or two simultaneously) Parameters Measured: Total field, vertical guadrature, horizontal quadrature and gradient 15 kHz to 25 kHz; front panel Frequency Range: selectable for each channel in 100 Hz steps 130 μ V m to 100 mV at 20 kHz, Sensitivity Range: 3 dB down at 14 kHz and 24 kHz -3 dB at +/- 80 Hz; VLF Signal Bandpass: < 4% variation at ±50 Hz Adjacent Channel Rejection: 300 to 800 Hz = 20 to 32 dB;800 to 1500 Hz = 32 to 40 dB; > 1500 Hz > 40 dB (for < 2% noise envelope) 10 kHz to 2.5 Hz = 5 x 10^{-4} Am to 5 x 10^{-1} Am < 2.5 kHz rising at Out of Band Rejection: 12 dB octave 30 kHz to 60 kHz = 5 x 10^{-4} Am to 8 x 10^{-3} Am > 60 kHz rising at 6 dB octave (for no overload condition) $\pm 100\% = \pm 1.0$ V Output Span: Time constant 1 sec. for 0% to Output Filter: 50% or 10% to 90% noise bandwidth 0.3 Hz (second order LP) Internal Noise: 1.3 µV m rms (ambient noise will exceed this) Sferics Filter: Reduces noise contribution of impulse filter <0.5% error for 20 m tow cable Electric Field Rejection: Power switch, frequency selector Controls: switches (Line and Ortho), meter switch (Total Quad), and sferics filter switch Meters (Line and Ortho), sferics Displays: light, overhead light

HERZ TOTEM - 2A VLF-EM SYSTEM - PAGE 2

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Inputs:	Power: 23 to 32 V DC; fused 0.5 Amps
	Signal: Sensor upper; sensor lower
Outputs	Total, quad, gradient, multiplexed (line and ortho)
	Audio monitor, stereo line and ortho
Dimensions and Weight:	Console: 480 mm wide x 45 mm high x 340 mm deep, 3.8 kg
	Sensor and Preamplifier Assembly: 150 mm diameter x 460 mm long, 1.5 kg

BARRINGER AIRBORNE MAGNETOMETER

Model: M 1041 Proton Precession Type: 20,000 to 100,000 gammas Range: + 1 gamma at 24 V d.c. Accuracy: 1 gamma throughout range Sensitivity: Manual: Pushbutton single cycle Cycle Rates: External: Actuated by a contact closure (short) longer than 10 microseconds Continuous: 1.114 seconds with external pins shorted Internal: 1 second to 3 minutes in 1 second steps Analogue: 2 channels, 0 to 99 gammas or 0 to Outputs: 990 gammas at 1 m.a. or 100 mV full scale deflection Digital: Parallel output 5 figure 1248 BCD, TTL compatible 5 digit numeric display directly in Visual: gammas Instrument set in console Size: 19" x 3.5" x 10" Weight: 10.6 lbs. Power 28 ± 5 volts dc, 0 1.5 amps - polarizing 4 amps Requirements: Noise cancelling torroidal coil installed in Detector: air foil

DATA ACQUIISITION UNIT

HP-3852A Model: Mainframe Supports: Eight function module slots Data acquisition operating system System timer Measurement pacer Full alphanumeric keyboard, command and result displays Number of Channels: 20 channel relay multiplexer HP44708A/H 5[‡] to 3[‡] digit intergrating voltmeter Voltmeter: HP44701A measures: DC voltage resistance AC voltage Range ±30V, ±0.008%, +300uV Intergration Time 16.7 msec Number of converted digits $6\frac{1}{2}$ Reading rate (readings/ 57 sec) Min-Noise rejection (dB) Normal Mode Rejection at 60 60 Hz ±0.09% DC Common Mode Rejection 120 with 1 K Ω in low lead Effective Common Mode Rejection at 60 Hz ±0.09% with 1 K Ω in low lead 150 Communication: HPIB interface with Compag 110/220 Volts AC at 60/50 Hz Power Requirements: Dimensions: 45.7 cm x 25.4 cm x 61.0 cm Weight: 9.5 kg.

CONTROLLER AND RECORDING SYSTEM - SPECIFICATIONS

Type:

Compag Portable II An 80286 microprocessor 640 Kbytes of RAM 2 three and a half inch 720 Kbyte drives one 20-Megabyte fixed disk drive Monochrome, dual-mode, 9-inch internal monitor Asynchronous communications interface Parallel interface Composite-video monitor interface RGB monitor interface RF modulator interface Two expansion slots Real-time clock An 80287 coprocessor A HPIB Interface Card 3 1/2 inch diskettes in ASCII Roland 1012 printer for printed output Beta I video cassettes 115 Volt AC at 60 Hz 11 kg 45 cm x 25 cm x 30 cm

Data Storage:

Power Requirements: Weight: Dimensions:

FLIGHT PATH RECOVERY SYSTEM

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T.V. Camera:	Model: RCA TC2055 Vidicon
	Power Supply: 12 volt DC
	Lens: Variable, selected on basis of expected terrain clearance
	Mounting: Gimbal and shock mounted in housing, mounted on helicopter skid
Video Recorder:	Model: Sony SLO-340
	Power Supply: 12 volt DC / 120 volt AC (60Hz)
	Tape: Betamax $\frac{1}{2}$ " video cassette ~ optional length
	Dimensions: 30 cm X 13 cm X 35 cm
	Weight: 8.8 Kg
	Audio Input: Microphone in - 60 db low impedance microphone
	Video Input: 1.0 volt P-P, 75 unbalanced, sync negative from camera
Altimeter:	Model: King KRA-10A Radar Altimeter
	Power Supply: 0-25 volt (1 volt/1000 feet) DC signal to analogue meter, 0-10 v (4mv/ft) analogue signal to data acquisition unit
	Mounting: Fixed to T.V. camera housing, attached to helicopter skid

COST BREAKDOWN:

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DESCRIPTION		TOTAL.
Mobilization and demobilization, 2 men, Brent		
Robertson and Gerald MacKenzie	\$	343.11
Airborne geophysical surveying (January 28, 1990)	-	
(37.6 km @ \$59.02/km)	\$	2,219.12
Data processing and report charges	\$	1,917.77
Total	\$	4,480.00

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