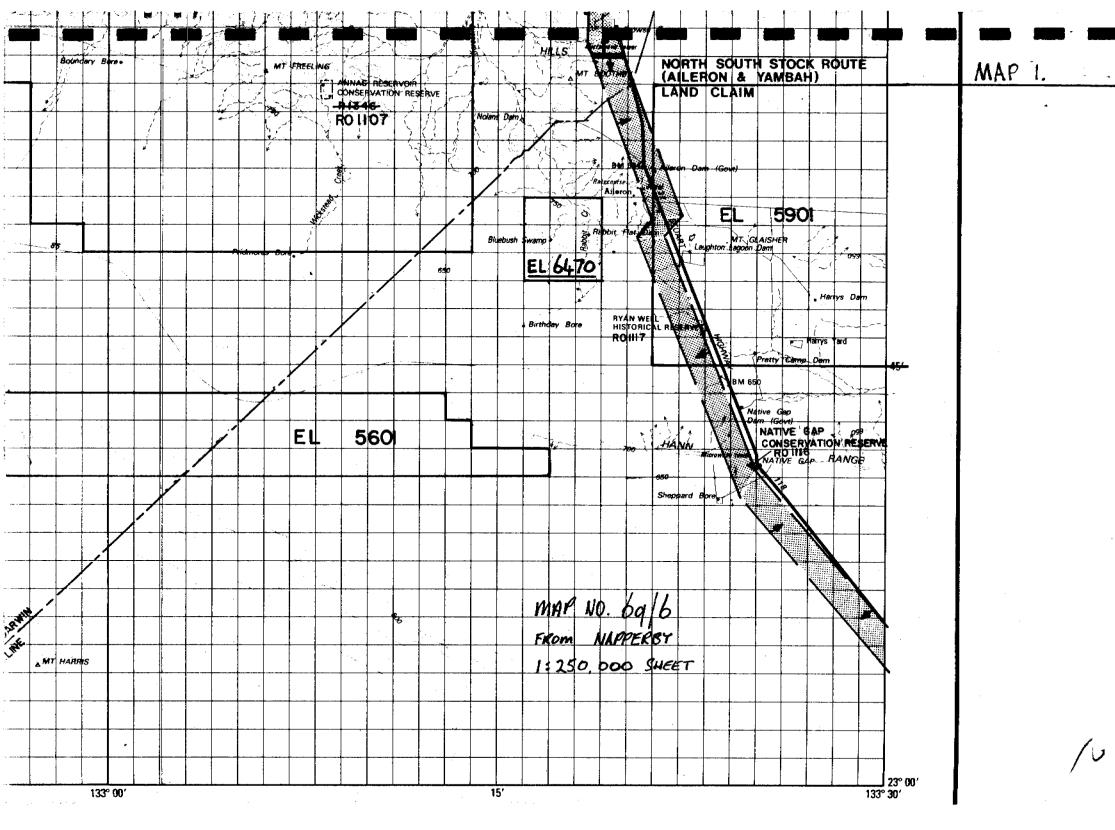
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GRANTED 9	NAPPERBY 1:250 000 MAP LOCALITY.
FINAL RI	EPORT
FOR PERIOR	D 9/5/89 To 8/5/90
LICENCE	HOLDER: L.A. JOHANNSEN
	emb 41
	ALICE SPRINGS.
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<u>Co</u>	NTENTS: 1. EXERPT FROM NAPPERBY 1: 250,000 MAP, (ND.69/6)
	2. FINAL REPORT DETAILS (PP. 192)
	3. MAP 2, SHOWING DRAINAGE FEATURE
<u></u> .	LOCALITIES, AND POSITION OF GOLD PROSPECT.
	4. MAP3, SHOWING PERCUSSION DRILL
	HOLE LOCATIONS.
	5. DRILLING DETAILS (P.S.)
	6. EXPENDITURE DETAILS, (P.4)
~~ ~~	7. DRILLING SAMPLE RECORD.
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EL 6470 FINAL REPORT.

THE LAND WITHIN EL6470 WAS TAKEN UP ON THE
BASIS OF THE OBSERVATION FROM AIR PHOTOS OF TWO
CIRCULAR DRAINAGE FEATURES OCCURRING ON SOMEWHAT
ELEVATED GROUND WITHIN A MAJOR FAULT COMPLEX.
THEY APPEARED SUFFICIENTLY DIFFERENT IN CHARACTERISTICS
TO A NORMAL CLAYPAN TYPE TO WARRANT, (I BELIEVE)
TESTING FOR CERTAIN MINERALS WHICH MAY INDICATE
THE PRESENCE OF AN UNDERLYING KIMBERLITE PIPE.

ALSO, I WANTED TO SAMPLE AND ASSESS A SMALL (1930'S) GOLD PROSPECT SEVERAL KILDMETERS TO THE NORTH OF THE PRIMARY TARGETS.

AN INFORMAL GROUND MAGNETOMETER SURVEY WAS
CONDUCTED ACROSS THE TARGET AREA AND ENVIRONS
AS A PRELIMINARY TO DRILLING, BUT NO VARIATION
IN THE MAGNETIC INTENSITY WAS DISSERVED.

SEVEN HOLES WERE DRILLED IN THE LARGER OF THE DRAINAGE ANOMALIES, AND ONE IN THE SMALLER, THE HOLES BEING ORILLED BY PERCUSSION WITH A DIAMETER OF ABOUT 75mm. (MAP 3.)

THE AREA APPEARS TO HAVE BEEN BACKFILLED WITH UP TO 4:5 METERS OF ALLVIUM. UNDERLYING THIS IS A FINE GRAINED QUARTZ BIOTITE SCHIST CONTAINING SMALL VEINS OF QUARTZ AND/OR CALCRETE. NO HEAVY MINERALS WERE FOUND. THE ONLY ACCESSORY MINERAL OBSERVED IN THE CHIP SAMPLES WERE A FEW CHIPS OF KYANITE, (RARE)

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THE CONCLUSIONS DRAWN FROM THIS ARE THAT (A.), THE GEOLOGY UNDERLYING THE FEATURES CONFORMS TO THAT OF THE IMMEDIATE LOCALITY, WHICH IS PART OF A LARGE FAULT ZONE, AND (b.), THE ORIGIN OF THE CIRCULAR FEATURES IS PROBABLY DUE TO UNDERLYING WEATHERING PROCESSES WHICH SUSTAIN A SLIGHT DEPRESSION IN THE GROUNDLEVEL DESPITE THE GRADUAL BUT CONSTANT INPUT OF WIND AND WATER BORNE SAND AND SILT.

TAKEN FROM THE DIGGINGS CONSISTING OF QUARTZ WITH INCLUSIONS OF DISSEMINATED ARSENOPYRITE, AND MAGNETITE WITH ARSENOPYRITE. ALSO THREE SEDIMENT SAMPLES WERE TAKEN FROM APPROPRIATE LOCAL STREAMS.

THESE WERE FORWARDED TO CLASSIC COMLABS DARWIN, THE FORMER FOR FIRE ASSAY AND THE LATTER FOR BULK LEACH.

ALL WERE BELOW DETECTABLE AULIMITS, WHICH PROMPTS ME TO MAKE THE FOLLOWING COMMENT.

IN THE LATE 1930'S MY FATHER, WURT JOHANNSEN, CARRIED A SMALL CONSIGNMENT OF ORE FROM THIS PROSPECT TO THE TENNANTS CREEK GATTERY ON BEHALF OF THE OWNERS. APPARENTLY THE RESULTING GRADE WAS SO LOW THAT RECEVERING PAYMENT FOR THIS SERVICE WAS QUITE DIFFICULT, AND HE FORMED A VERY STRONG OPINION THAT THE PROSPECT HAD, AT THE OUTSET, SEEN SALTED.

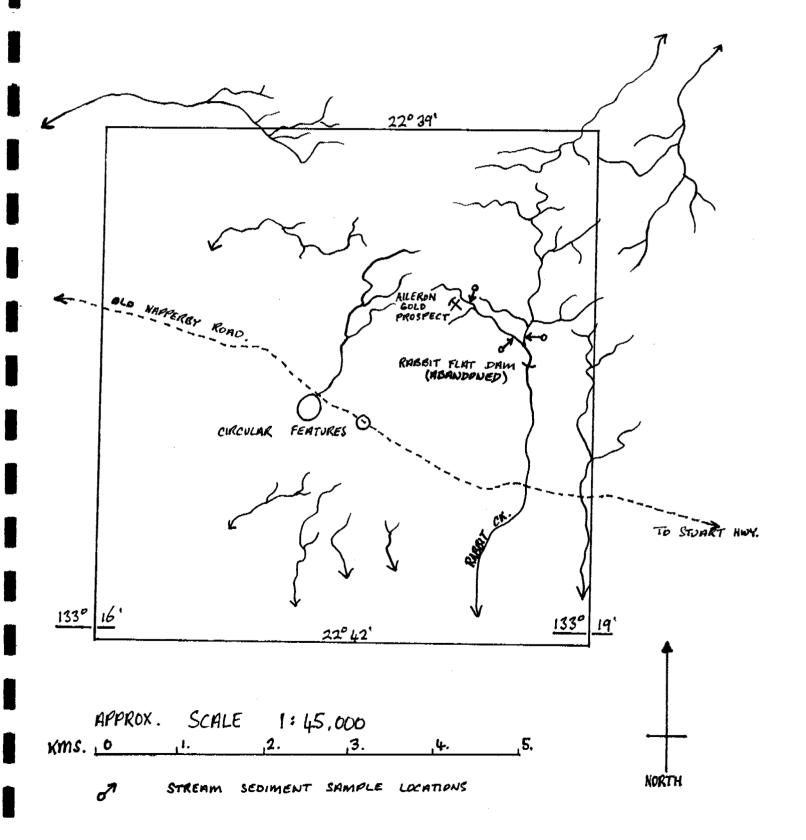
I CAN ONLY CONCLUDE THAT HE WAS PROBABLY CORRECT.

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EL 6470

MAP 2.

DETAIL FROM 1950 AIRPHOTO SERIES.
NAPPERBY SHEET
RUN II, NO. 5138



<u> </u>

DETAILS OF PERCUSSION DRILLING.

DRILL: INBERSOL-RAND ECM-350 MODEL WITH GOO CFM I.R. COMPRESSOR.

OPERATOR: L.A.JOHANNSEN.

SAMPLE: CHIP - OUST SAMPLE COLLECTED BY CYCLONE

SAMPLE ASSESSMENT: PRELIMINARY QUANTITY OF SAMPLES

TESTED FOR HEAVY MINERAL FRACTION BY PANNING.

(NIL RESULT; NO FURTHER TESTING)

WATER: ALL DRY HOLES, EXCEPT HOLE 4 WET AT 13.5 m.

BUT NO QUANTITY.

HOLE CETAILS:

HOLE NO.	SOIL DEPTH	TOTAL DEPTH		and and the second second second	
<u> </u>	4.m	15m	FINE	GRAINED	BIOTHE QTZ SCHIST
2.	2:5m	12 m	((ч	
<u> </u>	2.5m	qm_	41	н	а
4. .	3 m	18 m		PLUS W	MIER AT
<u> </u>	3 m	12 m	17	QTZ BIO	NATER AT N QTZ VEIN TITE SCHIST
<u> </u>	4.5m	12 m	11		i,
<u> </u>	3 m	15 m	ļŧ	PLUS	CALORETE
ORILLEO AT 8.	3 m	15 m	1t	PLUS	QUARTZ

EC. 6470	
DETAILS OF EXPENDITURE (9/5/89 to 8/5/90)	
TRANSPORTATION OF DRILLING EQUIPMENT	
FROM BAIKAL HOMESTEAD TO EL6470 AND RETURN, 770 KM × 6.00 / KM	4620.00
PERCUSSION ORILLING, 108 m x 25:00/METER	2700 · 00
SAMPLE COLLECTION (GOLD PROSPECT)	75 . 00
SAMPLE ANALYSIS (GOLD PROSPECT)-	130 · 00
INFORMAL MAGNETIC VARIATION RECONNOITRE (1.8 HOURS)	45.00
REPORTING AND STATIONERY-	130 . 00
TOTAL	\$7700·c

EXPLANATORY NOTES FOR DRILLING SAMPLE RECORD

The Mining Act 1980 requires that holders of Exploration Licences shall, as soon as practicable after drilling, notify the Secretary, Department of Mines and Energy, <u>Darwin</u>, that drill core or cuttings have been taken and of the location of the drill-hole(s). The Act also requires that licensees/drilling sponsors shall not dispose of such core or cuttings except with the approval of and in accordance with any directions of the Secretary.

Accordingly, licensees/drilling sponsors are now required to complete a Drilling Sample Record for each drill hole and to submit the completed form to the Geological Survey within one month of completion of the drillhole. However, a drilling program (rotary, percussion, other) devised to sample:

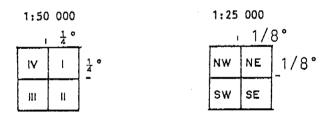
- (a) near-surface material, e.g. soil, laterite, etc; and/or
- (b) bedrock immediately below surficial cover

and usually consisting of many, relatively-shallow holes, may be summarized in the one Record under Category B. Each deep hole must be reported separately under Category A in the Record. Full details of all drilling activities are additionally required in the Annual Report.

In the case of shallow holes, the Ideality reference should be the approximate centre point of the area covered by the shallow drilling program. Each locality reference should be given as accurately as possible and obtained from the best source available at the time of drilling. The map references required are the standard 1:250 000 and 1:100 000 sheet names, plus a number from 1 to 6 representing the appropriate, contained 1:100 000 sheet area $(\frac{1}{2} \times \frac{1}{2})$; the numbering sequence is as shown below:

1:100 000						
1	1	2	3	10		
	4	5	6			

plus references to the appropriate 1:50 000 ($\frac{1}{4}$ ° x $\frac{1}{4}$ °) and 1:25 000 sheet areas; the standard references are as shown below:



Locality name should be the nearest, prominent geographical feature of common or usual reference, e.g. hill, homestead, dam, well, specific mine, mining centre, etc.

It is appreciated that samples which fall within Category B usually comprise only small percentages of the total amounts of drill-derived material. No obligations shall exist for drilling sponsors to retain and store these samples. However, the NTGS may wish to assume responsibility for the storage of some or all of any retained samples, in the event that they are no longer required by licensees/drilling sponsors.

Licensees/drilling sponsors must consult with the Geological Survey concerning disposal of drill-hole samples (core and/or cuttings) or submission of them to the Department. No samples will be accepted by the Core Libraries unless Drilling Sample Records have been forwarded previously and prior arrangements have been made with the Geological Survey for their submission. Also, the Geological Survey should receive prior, written advice of the presence of radioactive minerals in any drill materials to be submitted for storage by the Department. This advice should be accompanied by brief, relevant details re:

- (1) location, viz. drill interval(s) or sample number(s); and
- (2) concentration(s) viz. assay values of the radioactive minerals.

The ultimate aim of these measures is to make sub-surface information available to the mineral industry as accurately, meaningfully and efficiently as possible.