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EXPLORATION LICENCE 47/83, LYNCHFORD

TASMANIA

REPORT ON EXPLORATION IN THE
AREA TO BE RELINQUISHED

10TH MARCH, 1990

90-30861

OPEN FILE

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1.0 SUMMARY

In order to fulfil statutory requirements governing the retention of exploration licences in Tasmania, EL 47/83 Lynchford must be reduced to a maximum of half the original area of 30.705 sq. km by 10 March 1990.

An area of 15.455 sq. km has been chosen for relinquishment (plate Lyn 37, schedule 1). The area selected is considered unprospective for VMS style base metal mineralisation. Consideration was initially given to areas of Post Cambrian cover. Secondly areas of less prospective Cambrian Western volcano-sedimentary Sequence were selected. Minor wedges of Central Volcanic Complex (CVC) lavas and porphyrys have been included.

Work over the 5 year duration of the licence in the area selected for relinquishment has primarily been of a reconnaissance nature with mapping, stream sediment sampling and regional geophysics undertaken. This area has received minimal attention due to its perceived low prospectivity.

2.0 INTRODUCTION

EL 47/83 covers an area of 30.705 sq. km and is located to the south of Queenstown (plate Lyn 24).

The Exploration Licence was granted to CRA Exploration Pty. Ltd. on the 10 th March 1985. Since the 28 th April, 1988 exploration has been conducted by Aberfoyle Resources Ltd. under the terms of the Mount Read Volcanics joint venture with CRA Exploration Pty. Ltd..

This report outlines the work undertaken by CRA Exploration Pty. Ltd. and Aberfoyle Resources Ltd. in the area nominated for relinquishment (plate Lyn 37).

3.0 EXPLORATION HISTORY

3.1 Early Prospecting Activity

Early prospecting located a number of prospects, which were worked with limited success (Plate Lyn 38).

A number of vein style Au mining operations are reported from the area. These include the Princess River Mine in the Northwest of the licence and Harris Reward Mine in the Newall Valley. A number of other small pits and sluicing operations have been conducted within the E.L. (Twelvetrees, 1900).

Other commodities mined include minor carbonate hosted vein style Pb, Zn mineralisation reported from within the Gordon limestone.

3.2 Exploration Activity 1966-1985

i) Picklands Mather Incorporated (P.M.I.) 1966-67

P.M.I. have undertaken limited work in the area considered for relinquishment with a stream sediment survey conducted to the north of the King River (Plate TASH 2693 & TASH 2694) (Smith, 1967).

ii) Cyprus Mining Corporation (C.M.C.) 47/70 1971-72

C.M.C. undertook a limited stream sediment sampling programme over the area of the licence to the north of the King River (C.M.C., 1972).

iii) Renison Goldfields Ltd. 1980-82

R.G.C. completed a stream sediment survey over the area north of the King River. Portions of the E.L. were flown as part of a larger Airborne DIGHEM II survey. (Komyshan and Bishop 1982) (Plates TASH 2693, 2694 and 2860 Clementson, 1986).

4.0 EXPLORATION ACTIVITY 47/83 1985-1990

4.1 Geology

4.1.1 Introduction

The Regional Geology is summarised on plate Lyn 38 (1:10,000 Interpretative Geology) compiled from mapping by Aberfoyle Resources Limited and from mapping by the Department of Mines (1:50,000 scale Mount Lyell Sheet, 1987 and 1:25,000 Queenstown Sheet 1989). The geology is discussed with reference to the three areas outlined for relinquishment on plate Lyn 37.

4.1.2 Cambrian

The oldest rocks exposed in the area to be relinquished are those of the Western Sequence, which outcrop in the Queen River area, (area 2, plates Lyn 37, 38). They comprise a basal sequence of fine grained micaceous sandstones to quartzites that form the Miners Ridge in the east of the licence (Cmrs). Overlying the sandstone to the west is a sequence of black shales, fine grained impure sandstones or greywackes, shaly grits (Cws) and lapilli volcanoclastics (Cwlv).

The Miners Ridge sandstone is flanked to the east and south by quartz feldspar porphyries (Ccvp) and Dacitic lapilli volcanoclastics and Dacitic lavas (Ccvl) of the

Central Volcanic Complex. The outcrops of CVC to be relinquished occur in the Newall Valley area (area 3 plates Lyn 37, 38).

Minor intermediate to mafic commonly hornblende feldspar phyric bodies (Clab) intrude the Western Sequence in the Queen River Area (area 2 plates 37, 38).

4.1.3 Ordovician

Unconformably overlying the volcanics to the west of the EL (Princess River and Queen River areas, plate Lyn 37, 38) there is a sequence of conglomerate (Ocg) and Sandstone (Oss) (in places chromite bearing) which are correlates of the uppermost Owen Conglomerate and overlying Pioneer beds. These are succeeded conformably by the Gordon Limestone (Olst). The absence of any major thickness of Owen Conglomerate in the west of the licence is best explained as a primary depositional feature, possibly reflecting control on sedimentation by major faults (Clementson, 1986).

In the south of the licence (Newall Valley area plate Lyn 37) a more substantial thickness of Owen Conglomerate along with Gordon Limestone, is present overlying the CVC.

4.1.4 Silurian

A sequence of Silurian sandstone (chromite bearing) (Sss) and Silurian mudstone with minor interbedded siltstone and sandstone (Smst) covers a major proportion of the Princess River and Newall Valley areas (plate Lyn 37, 38) and conformably overlies the Ordovician sediments.

4.1.5 Devonian

Fine grained quartz rich sandstones with minor interbedded siltstones and mudstones of Devonian age (Dss) conformably overlie the Silurian sediments throughout the area to be relinquished.

4.1.6 Quaternary

Lying unconformably upon a Palaeozoic basement are a range of Quaternary sediments. Pockets of Pleistocene? glacial till and outwash gravels (Qg) occur as high level deposits along the valley of the Queen River. In the Newall Valley area, colluvial scree (Qc) mainly sourced from the ridge of Owen Conglomerate, forming Mt. Jukes, flanks the eastern margin of the area to be relinquished and overlies Ordovician to Silurian sediments. Recent alluvial (Qa) deposits occur at various points along the Queen River valley.

4.2 Geochemistry

4.2.1 Stream Sediment Survey

i) CRAE Survey 1986

CRAE resurveyed over much of the E.L. in 1985, as previous stream sediment surveys had concentrated almost exclusively on the search for base metals, with only a very limited number of Au determinations carried out. Previous surveys had concentrated north of the King River.

The CRAE programme was designed to test for fine Au, both as a primary target and as a pathfinder for base metal mineralisation.

Samples were collected from all accessible major drainages and analysed using cyanide leach techniques sensitive to 50 ppt Au. Standard -80 mesh samples were also collected for base metal and gold determinations.

The results of the survey over the area considered for relinquishment are summarised as Appendix IV and TASH 2869 and 3102. No significant anomalies were identified in this area.

ii) Aberfoyle Resources Survey 1989

A conventional -72 mesh and -4 mesh Bulk Cyanide Leach stream sediment survey was carried out to cover the previously unsampled southern portion of the E.L.. Results and location of the sampling are included here as Appendix VI and plates Lyn 15 and Lyn 16.

Base metal determinations within the area considered for relinquishment were far from encouraging.

A number of promising Au values were generated during the survey. The best results were obtained from sampling at the southern margin of the E.L.. A creek draining westward into the Thomas Currie Rivulet returned a -72 mesh value of 0.246 g/t Au (482405). A BCL sample from a south westerly draining creek further to the east also returned an encouraging value of 3350 ppt, although accompanying -72 mesh values were below detection limit. The elevated BCL values from the Newall Creek 2300 ppt (482462) and one of its tributaries 1200 ppt (482461) and 1500 ppt (482463) are attributed to past sluicing operations of the gravels in this area.

4.2.2 Rock Chip Geochemistry

i) Regional Rock Chip Sampling

The area considered for relinquishment has only received limited sampling attention from Aberfoyle Resources Limited. No sampling was completed in the Princess River area and only one sample G482125 was taken in the Newall Valley area (Plates 20 and 21). A number of samples P482009, G482018, G482041, G482042, G482050, G482094 and G482107 were taken on lines 1400N and 1600N of the Specimen Creek grid. No significant anomalous rock chip values were obtained from the sampling programme. Sample locations and results are included herewith as plates Lyn 20 and Appendix V.

CRA Exploration undertook an extensive rock chip sampling programme throughout the area considered for relinquishment (plates TASH 3102, Appendix III). The results of sampling have been less than encouraging with no significant base metal or auriferous results reported. The CRAE sampling programme was concentrated along the Mt. Jukes Road and in the vicinity of the HEC Lynchford camp and King River Power Development sites.

ii) King River Power Tunnel

The King River Power Station site, access portal and initial 200m of the head race tunnel lie within the area considered for relinquishment.

Both Aberfoyle Resources and CRAE have undertaken extensive rock chip sampling and channel sampling within the access and head race tunnel. No significant base metal results were obtained from the sampling programme. A quartz vein related Au spike of 1.97 g/t was noted at 6840 m W within the head race tunnel. The only other significant result was from a grab sample P482350 of pyritically altered quartz phyrlic porphyry taken from the development face of the access tunnel by a HEC Engineer in 1986. Subsequent sampling has failed to repeat the encouraging assay results of 18.3 g/t Au and 4.5 g/t Ag and 920 ppm As.

Results of sampling are tabulated in Appendix VIII and are summarised on plates TASH 3573 and Lyn 17, 18 and 39.

4.2.3 Soil Geochemistry

The results and locations of the soil sampling programme from portions of lines 1400N and 1600N on the

Specimen Creek grid are tabulated as Appendix VII and plate LYN 40. The soil sampling results from these lines failed to identify any significant anomalies.

4.3 Geophysics

4.3.1 Airborne EM

CRAE reappraised the data from the 1982 DIGHEM II survey of RGCL over the northern portions of the E.L.. A number of subtle anomalies were interpreted, those of interest are outlined in TASH 2860. A number of anomalies were investigated and follow-up SE-88 GENIE surveys undertaken (Clementson, 1986).

A number of low resistivity anomalies were interpreted, these were previously discounted as being due to minor surface variations, but may in fact have had some bedrock source. The anomalies are labelled according to flight line and fiducial (Clementson, 1986).

i) Dighem Anomalies 22/530 and 21/544.5

The Lynchford HEC camp was recently constructed over the site of these two anomalies. Minor sphalerite-galena veinlets were reported from excavations in the Gordon Limestone at the site of 22/530. Anomaly 21/544.5 appears to be explained by the presence of a highly weathered Cambrian Basalt. Sampling revealed no geochemical

anomalies. Further work proved to be impractical due to the presence of the HEC camps (Clementson, 1986).

ii) Dighem Anomaly 28/449

The anomaly is adequately explained by the presence of highly carbonaceous and pyritic black shales, which outcrop in the spill way and access track to the fire water storage dam. Geochemical sampling in the vicinity located no anomalies.

4.3.2 Ground EM

A) SE-88 GENIE

A GENIE survey was conducted over many of the DIGHEM anomalies identified and use was made of new access afforded to the south of the licence by HEC road works. The results of traverses are outlined in Plate TASH 2844.

i) Mt. Jukes Road SE-88 GENIE Traverse

Much of the data was affected by background noise resulting from roadworks activity during the reading of the survey. The increase in surface conductivity between 1860-2610 E was explained as a surficial weathering feature. The conductor at 1860E was due to a shed. On the whole the traverse did not generate any anomalies worthy of interest (Clementson, 1986).

ii) SE-88 GENIE Survey of DIGHEM Anomaly 22/530

The proposed survey line through the middle of the HEC camp was abandoned due to excessive noise levels.

The GENIE survey failed to generate any responses worthy of the further interest.

B) UTEM Survey

A UTEM survey was conducted by Aberfoyle Resources Limited over the north of the licence in 1989. Portions of lines 1400N and 1600N at the southern end of the Specimen Creek grid fall within the area to be relinquished. The UTEM survey failed to reveal any subsurface conductors in this area. The UTEM profiles are included as Appendix X.

4.3.3 Airborne Magnetism

Enhanced aeromagnetic contour plans from the DIGHEM survey were examined and major magnetic features were extracted (Plate TASH 2860) and compared with mapped geology. A good correlation between the magnetism and mapping is evident.

No magnetic anomalies worthy of follow-up were recognised.

4.3.4 Ground Magnetism

A ground magnetic survey was undertaken by Aberfoyle Resources Limited in 1989 over the Specimen Creek grid. The data from portions of lines 1400N and 1600N Plate LYN 40, falling within the area to be relinquished is included as Appendix XI. The magnetic survey proved to be a very useful support to geological mapping, but failed to generate any magnetic anomalies worthy of follow-up.

4.4 Petrography

Three rock chip samples were submitted for petrographic description by Aberfoyle Resources Limited from the area nominated for relinquishment. Sample P482009 a sample of Western Sequence mudstone and samples P482340 and P482350 both samples of quartz phyrlic porphyry from within King River access and head race tunnel.

A further two regional petrographic samples were taken by CRAE. Sample 988953 an argillised rhyolite and sample 988974 a greywacke from within the Western Sequence.

The Petrographic summaries and sample locations are included here as Appendix IX and plates LYN 17, 20 and TASH 3102.

5.0 CONCLUSIONS

The area selected for relinquishment contains minor wedges of the Central Volcanic Complex. These wedges are considered to have little potential for hosting VMS style mineralisation. The large expanse of Western Sequence sediments and volcanoclastics are considered to have little base metal or auriferous potential. The large area of Palaeozoic sediments relinquished has a limited potential for hosting a small tonnage vein style gold body. The areas of Gordon Limestone relinquished have limited potential for hosting Irish style base metal mineralisation but are considered to have a low prospectivity for hosting a body of sizeable tonnage.

The 50% relinquishment of EL 47/83 Lynchford can be achieved without surrendering any prospective areas of Mount Read Volcanics.

6.0 REFERENCES

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524024

Appendix I

EL 47/83 Lynchford -

Schedule of Area to be relinquished.

AREA OF EXISTING EL 47/83 TO BE RELINQUISHED

524025

Being an area of 15.455 square kilometres as described hereunder.

SCHEDULE 1

Area to be relinquished

Commencing at the North East Corner whose grid co-ordinates are 378000 metres E
5337000 metres N. thence grid south to 5335000 metres N. thence grid East to
379000 metres E. thence grid South to 5334000 metres N. thence grid east to
380000 metres E. thence grid South to 5333000 metres N. thence grid West to
379000 metres E. thence grid South to 5331000 metres N. thence grid East to
380000 metres E. thence grid South to 5328000 metres N. thence grid West to
378000 metres E. thence grid North to 5332050 Metres N. thence grid West to
377100 metres E. thence grid North to 5337000 metres N. then grid East to the
point of commencement.

Appendix II

Table of Geological Abbreviations

GEOLOGICAL ABBREVIATIONS

Abundant	abn	Fine grained	fg	Rhyolite	R
Adularia	Adl	Fissile	fis	Ripple marks	rmk
Agglomerate	agg	Flowbanded	fbn	Round	rnd
Albite	Ab	Foliated	fo	Rubble	rbb
Alkali feldspar	Afd	Fragments	fr	Sandstone	Ss
Altered	alt	Fuchsite	Fu	Schist	Sch
Amphibolitic	amb	Gaiena	Gn	Schistose	sch
Amphibole	Amb	Glass	Gl	Sediment	sed
Amygdaoidal	amg	Glassy	gl	Selected fragments	sfr
Andalusite	An	Gossar	Gos	Sericite	Se
Andesite	A	Granular	glr	Serpentine	Srp
Angular	ang	Granite	Gt	Shale	Sh
Apilite	Ap	Granobitic	gt	Sheared	shd
Approximate	apx	Green	gn	Sheeted	sht
Arcuate	ar	Grey	gy	Siderite	Sid
Arenaceous	arn	Greywacke	Gw	Silica	Si
Argillaceous	arg	Haematite	Hmt	Siliceous	sil
Argillite	Arg	Hornblende	Hb	Siltstone	Slt
Arkose	Ak	Ignimbrite	Ig	Slickenside	sik
Arkosic	ak	Illite	Ill	Sonalerite	Sp
Arsenopyrite	Ap	Interbedded	ibd	Spotted	spt
Ash volcanoclastic	av	Intercalated	icl	Spotty	sot
Autobrecciated	aub	Intrusive	int	Stockwork	stw
Average	ave	Jurassic	Ju	Stratabound	stb
Banded	bnd	K-Feldspar	Kfd	Strong	str
Barite	Ba	Khaki	kh	Structure controlled	stc
Basalt	B	Laminated	lm	Taic	Tc
Bedded	bd	Labilite volcanoclastic	lv	Tertiary	T
Biotite	Bio	Lava	l	Tourmaline	Tm
Black	bk	Lava breccia	lb	Trace	tr
Black shale	Bsh	Leached	lch	Trachyte	Tr
Blue	bl	Limonitic	Lim	Tuff	Tf
Boulder	bld	Light	lgt	Tuffaceous	tf
Breccia	b	Limestone	Lst	Variable	var
Breccia volcanoclastic	bv	Litic	lh	Variolitic	vr
Bright	brc	Magnetite	Mt	Vein	vn
Brown	br	Massive	mas	Vein concordant to bedd	cv
Calcareous	cc	Matrix	mtx	Vein discordant to bedd	dv
Calcite	Cc	Matrix dominated	md	Very	v
Carbonaceous	carb	Medium	med	Vesicuier	ves
Carbonate	Co	Medium grained	mg	Vitric	vtr
Cavernous	cav	Metamorphosed	meta	Volcanic	vlc
Chalcopyrite	Cp	Mica	Mic	Volcanoclastic	vici
Chert	Ch	Micaceous	mic	Weak	wk
Chlorite	Cl	Mineralised	min	Weathered	wth
Chromite	Cr	Minor	mnr	White	wh
Chromiferous	cr	Mixed	mxd	Yellow	yl
Clay	cy	Mottled	mtl		
Coarse	c	Mudstone	Mst		
Coarse grained	cg	Nodule	no		
Colloform	coll	Off white	ow		
Colour	col	Olivine	Ol		
Common	com	Oolitic	oc		
Conglomerate	Cg	Orange	or		
Conglomeratic	cg	Ordovician	O		
Crystal	x	Oxidised	ox		
Crystal volcanoclastic	xv	Patchy	pat		
Dacite	D	Pebblitic	pep		
Dark	dk	Perlitic	prl		
Dense	dns	Pervasive	per		
Devitrification	dv	Phenocrysts	pnm		
Diorite	Di	Phyllite	phyl		
Disseminated	dis	Phytic	p		
Dolerite	Do?	Picrite	Pic		
Dolomite	Dm	Pillow lava	pl		
Dyke	dy	Pink	pk		
Elongated	el	Polymict	y		
Emanasised	emp	Porphyritic	por		
Epiclastic (adj.)	e	Predominantly	pred		
Epiclastic (noun)	E	Pumice	Pu		
Epidote	Ep	Pumiceous	pu		
Euhedral	euh	Purple	pp		
Eutaxitic	eux	Pyrite	Py		
Fabric	fab	Pyritic	py		
Fault	F	Pyroxene	Px		
Fault zone	Fz	Pyrrhotite	Po		
Feldspar	Fd	Quartz	Q		
Feldspar phytic	fp	Quartzite	Qtz		
Felspathic	fei	Quellite	Qll		
Ferruginous	fer	Questionable	?		
Fibrous	fc	Recrystallised	rx		
Fine	f	Reo	ro		
		Renased	rnd		
		Reworked	rw		
		Rhyodacite	RD		

52A027

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Appendix III
CRA Exploration -
Rock Chip Geochemistry Ledgers

CRA EXPLORATION PTY. LIMITED

March 1985

SAMPLE NUMBER	LOCATION						ROCK TYPE			MINERALISATION							METAL CONTENT ppm / %									Geological Observations
	Co-ordinates AMG / Grid		ELEVATION	LITHO	Interval		MAGNETIC ROCK	MINOR ROCK	ANION SALT	SULFIDE	SILICE	HAZAR	MINOR	MINOR	CANDOR	LIFE	Cu	Pb	Zn	Ag	As	Fe%	Mn	Mo	Au	
	East	North			From	To																				
1272525	378800	5370200		F												45	10	10	1	13	2.59	140	<2	0.01	Float Quartzite sandstone, light- medium grey Euhedral pyrite disseminated throughout (20-27%) Max 3mm diam. Trace stannite	
GEOCHEMICAL ROCK SAMPLING LEDGER						DETECTION LIMIT									← ICS80 →									Ppm		
						ANALYTICAL METHOD									2	5	2	1	1	0.01	5	2	0.01			
TENEMENT NAME: LYNCHFORD						PROJECT:						AMG ZONE:						SHEET No.: 1								
AREA / PROSPECT:						D.P.O. #: 35038						LABORATORY: ALS (BRIS)														
MAP / PHOTO REF: FRANKLIN 1:100 000						SAMPLE No.: 1232525						COLLECTED BY: DW						DATE: 1-10-87								

524029

PROJECT QUEENSTOWN-ZEEHAN
 TENEMENT LYNCHFORD EL47/83
 AREA / PROSPECT RECONNAISSANCE - general

GEOCHEMICAL SAMPLING LEDGER

GEOLOGIST I.M. Clementson SAMPLE TYPE _____

DATE: MARCH 84
 LAB. ANDEL
 PAGE NO. 1

SAMPLE NUMBER	GRID REF.	ANALYSES										DPO NUMBER	GEOLOGICAL OBSERVATIONS	CORRESP. -80 MESH STREAM SAMPLE	
		Cu	Pb	Zn	Fe %	Ag									
988951	377720E 4335250N	15	25	42	5.38	0.005							30348	2/c - massive green calcareous crystalline matrix with some minor Abundant over 10% of length.	
988952	377720E 4335250N	1750	8	30	6.72	0.095								First - calcareous dominant matrix with 10% of length.	
988953	377720E 4335250N	24	25	2	1.37	0.005								2/c - massive calcareous matrix.	
<p>FE-SILICATE Argillaceous devitrified chrysolite probably originally a glassy lava</p>															

METHOD
 02/1981

524030

CRA EXPLORATION PTY. LTD.

000

SAMPLE NUMBER	LOCATION		Sample Type	ANALYSES										Geological Observations			
	Easting	Northing		Cu	Pb	Zn	Ag	As.	Fe %	Mn	Alu ppb						
986	328 500	533 1510	Rock	30	40	45	1	6	3.10	255	<3						
DETECTION LIMIT				2	5	5	1	1	0.01	5	3						
ANALYTICAL METHOD				← 1000 → PM205													
Project: <u>Queensdown / Zeehan</u>				1:250 000 Sheet: <u>SK 55-5</u> AMG Zone								Sheet No. <u>TASK 2869, 3102</u>					
Tenement: <u>Lynchford</u>				DPO's <u>31993</u>								Laboratory <u>A.L.S.</u>					
Area / Prospect												Collected By <u>WAS.</u> Date					

524031

CRA EXPLORATION PTY. LIMITED

March 1985

SAMPLE NUMBER	LOCATION						ROCK TYPE										MINERALISATION										METAL CONTENT ppm / %										Geological Observations
	Co-ordinates AMG / Grid		LITHOLOGY	S TYPE	M 1-1	Interval	FOE	POE	MINOR	ROCK	ALTERATION	VEIN	SITE	MAJOR	MINOR	MINOR	CAMP	ELEV	Cu	Pb	Zn	Ag	As	Fe%	Mn	Mo	Au										
	East	North																										DIST	A	ONS	TUNNEL						
1198701	378940	331781	ck		6790													15	10	150	1	10	4.05	450	<2	0.02	Vein fill, milky with chl inclusions	QTZ									
1198702	378950	331780	ck		6778													60	20	740	1	10	7.05	1550	<2	0.01	Vein material, CHL-(HE)	QTZ-									
1198703	378960	331779	ck		6770													35	25	710	2	16	5.27	6000	<2	0.02	Vein material, QTZ-CHL										
1198704	378974	331776	b/c		6755													20	15	70	2	9	5.26	1500	<2	0.01	Strongly altered QTZ-FLD-CHL ruff (Western exp) HE-Qtz vein										

GEOCHEMICAL ROCK SAMPLING LEDGER		DETECTION LIMIT										2	5	2	1	1	0.01	5	2	0.01											
		ANALYTICAL METHOD										←	IC	JYC	→	→	→	→	→	→	→										
VENEMENT NAME : LYNCHFORD		PROJECT :										AMG ZONE :										SHEET No. : 01									
AREA / PROSPECT : POWER TUNNEL		DPO : 35038										LABORATORY : ALS																			
MAP / PHOTO REF : See TASH		SAMPLE No. : 1198701 - 1193706										COLLECTED BY : FRF										DATE : 22-9-87									

524034

CRA EXPLORATION PTY. LTD.

SAMPLE NUMBER	LOCATION		Sample Type	ANALYSES										Geological Observations
	Easting	Northing		Cu	Pb	Zn	Ag	As	Fe %	Mn	Au ppb	PE / Pd ppb		
988997	379750	5330850	d/c	85	200	20	<1	22	0.55	45	<3		Mudstone/chalovite sanding within f. - grain sandstone, slightly chloritic.	
988998	-	-	d/c	110	290	60	<1	60	2.23	165	<3		Pyrite and arsenopyrite in sandstone as above.	
988999	379825	5330650	d/c	50	165	200	<1	40	1.90	45	<3		Dark greenish black silty loam - carbonaceous. Highly weathered.	
989000	379900	5330550	d/c	45	30	25	<1	4	2.66	40	<3		P. de hematite (?) fine grained calcareous tuff. S. 16 to 20 grade. Zoned quartz-chlorite veins. Substant size of 60° to 080°m.	
989951	379880	5330150	d/c	40	20	5	<1	4	0.75	15	<3		As above, but with bedding visible dipping at 45° to 080°m.	
989963	378500	5334050	d/c	145	55	55	1	120	7.39	60	<3		Gaseous zones within dark grey-black shales.	
989964	-	-	d/c	130	45	15	1	310	9.99	80	<3		Gaseous quartz vein within fine sandy tuffs.	
989965	-	-	d/c	195	90	55	2	190	13.7	80	<3		Selected pyrite nodules from coatings within very carbonaceous shales.	
989966	378300	5334075	d/c	150	30	100	1	32	7.62	4200	<3		Coarse breccia - black porphyrite clasts in a micritic matrix.	
989967	378650	5334900	d/c	35	10	35	1	8	3.00	570	<3	<50 / 10	Coarse foliated ultrabasic weathered.	
989968	378300	5334075	d/c	170	110	105	1	50	7.02	1.48%	<3		Manganese-iron stained fault zone within silty lithic tuffs.	
DETECTION LIMIT				2	5	2	1	1	0.01	5	3	50/10		
ANALYTICAL METHOD				ICP									AA's Fire Assay	
Project : QUEENSTOWN ZEELAND			1: 250 000 Sheet : QUEENSTOWN			AMG Zone : SA55-5			Sheet No. :					
Tenement : LYNCHFORD EL 47/83			DPO's : 35004 & 35008 (check Repeals)			Laboratory : A.L.S.								
Area / Prospect : REGIONAL RECONNAISSANCE ROAD DRAINAGE SURVEY			Collected By : I.F. CLERKINSON			Date : 29/10/85								

524036

CRA EXPLORATION PTY. LTD.

100

SAMPLE NUMBER	LOCATION		Sample Type	ANALYSES										PL/Pd	Geological Observations	
	Easting	Northing		Cu	Pb	Zn	Ag	As	Fe %	Mn	Alu ^{ppm}	Alu ^{ppb}				
				ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm				
189971	378760	5331900	dk-R/C	75	40	60	1	22	1.65	1200	<3			Dark grey, very dirty (shale in places). Close to contact with coarse qz porphyry. Abundant dissemin. pyrite.		
189972	-	-	dk-R/C	55	90	115	1	110	6.90	240	15			As above but with granular blockwork.		
189973	378200	5333050	dk-R/C	135	65	45	1	44	2.86	170	<3			Black shale with minor pyrite. Dip 75° to 75°N.		
189974	378200	5333070	dk-R/C	ANAL. R. 012 : Gran. rock												PETROLOGY: ?? qz porphyry but well banded & with shale fringes. Rounded qz grains & relictoid K-feldspar.
DETECTION LIMIT																
ANALYTICAL METHOD																

Project : <u>QUEENSTOWN - ZEEHAN</u>	1 : 250 000 Sheet : <u>QUEENSTOWN</u> AMG Zone : <u>55</u>	Sheet No. :
Tenement : <u>LYNCHFORD EL47/83</u>	DPO's : <u>35004 & 35008 (check maps)</u>	Laboratory : <u>ALS / AMDEL</u>
Area / Prospect : <u>REGIONAL SAMPLING</u>		Collected By : <u>I. T. CLEMENTSON</u> Date : <u>1 Nov 85</u>

524037

Appendix IV
CRA Exploration -
Stream Sediment Geochemistry Ledgers
(-80 mesh -4 mesh BCL)

CRA EXPLORATION PTY. LTD.

SAMPLE NUMBER	LOCATION		Sample Type	ANALYSES									Geological Observations
	Easting	Northing		Cu	Pb	Zn	Ag	As	Fe %	Mn	Au P.P.B.	Pu P.P.T.	
42799 800	577150	5330850	-80# -4#	5	15	20	<1	4	0.08	10	5	<50	Strong-moderate flow; well incised; eucalypt forest; possible continuation from HEC works; 60% gravel, 35% sand, 5% silt. Rhyolite % at sample site; red-brown rhyolite float; conglomerate; sediments.
53806 807	577380	5330650	-4# -80#	5	15	10	<1	2	0.22	50	<3	<50	Moderate-strong flow; moderately incised; eucalypt forest; mod. org. i.s.; colluvial benches; 40% gravel, 40% sand, 20% silt. Dominant fine-mud grained sediments/siltstone float.
53808 809	577430	5330650	-4# -80#	5	45	25	<1	7	0.46	360	<3	50	Strong flow; moderately incised; eucalypt forest; low org. i.s.; 50% gravel, 30% sand, 20% silt. Fine grained tuffaceous sediments; grey-black shale %.
DETECTION LIMIT				2	5	2	1	1	0.01	5	3	50	
ANALYTICAL METHOD				ICP								AAS CN CRA LEACH	

Project: QUEENSTOWN - ZEEHAN	1: 250 000 Sheet: QUEENSTOWN AMG Zone: SK 85-5	Sheet No.: 1
Client: LYNCHFORD EL 43/83	OPD's: 30398 & 35004	Laboratory: ALS BRISBANE
Project / Prospect: REGIONAL STREAM SEDIMENTS		Collected By: S. CAITHNESS Date: 30-10-85

524042

CRA EXPLORATION PTY. LTD.

SAMPLE NUMBER	LOCATION			ANALYSES								Geological Observations	
	Easting	Northing	Sample Type	Cu	Pb	Zn	Ag	As	Fe %	Mn	Au	Au	
											PPB	PPM	

53816 817	578750	533440	-4# -80#									<50		Mod flow; mod incised; eucalypt forest; 60% gravel, 30% sand, 10% silt Dominant clean qz sat (Moria?); trace vein qz	
53818 819	578340	5332390	-4# -80#	2	15	10	<1	3	0.22	10	<3		550	Mod. flow; well incised; eucalypt forest; 60% gravel, 35% sand, 5% silt Fine-med grained tuffaceous sediment % + qz veinage	
53820 821	578240	5333200	-4# -80#	15	25	20	<1	10	1.19	55	10		100	Mod-strong flow; well incised; eucalypt forest; alluvial banks; 60% gravel, 30% sand, 10% silt, low organics Fine tuffaceous sat + siltstone % - chl alter; vein quartz	
DETECTION LIMIT				2	5	2	1	1	0.01	5	3	50			
ANALYTICAL METHOD				ICP								→	ANS CRA	EN LEACH	

Project	QUEENSTOWN - ZEEHAN	1:250 000 Sheet	QUEENSTOWN	AMG Zone	SS-S	Sheet No.	2
Minement	LYNCHFORD EL 43/83	DPO's	30398 & 35004	(35009, 35010)	Laboratory	ALS BRISBANE	
Area / Prospect	REGIONAL STREAM SEDIMENTS	Collected By	S. CATHNESS		Date	30-10-85	

024043

CRA EXPLORATION PTY. LTD.

SAMPLE NUMBER	LOCATION		Sample Type	ANALYSES								Geological Observations	
	Easting	Northing		Cu	Pb	Zn	Pg	As	Fe %	Mn	Au 1PB	Au 20%	
3822	378050	5333580	-4#								50	Med. flow; well incised; steep gradient; cleared eucalypt forest; colluvial lo. ss; 60% gravel, 30% sand, 10% silt. % of carbonaceous fine grained tuffaceous sediment; minor laminated shale part; minor unaltered tuffaceous sediment	
823			-80#	30	40	70	<1	14	1.64	280	15		
53824	378000	5333870	-4#								150	Med. flow; well incised; steep gradient; colluvial lo. ss; cleared eucalypt forest; 60% gravel, 35% sand, 5% silt; low organic. % of dark green intermediate(?) tuff; minor dark grey tuffaceous siltstone/shale	
825			-80#	70	65	120	1	32	3.47	690	5		
				80	70	120			3.33	750	5		
DETECTION LIMIT				2	5	2	1	1	0.01	5	3	50	
ANALYTICAL METHOD				ICP							AAS CRA	CN LEACH	
Project: QUEENSTOWN-ZEEHAN			1 250 000 Sheet: QUEENSTOWN			AMG Zone: 55-S			Sheet No.: 3				
Tenement: LYNCHFORD EL 43/83			DPO's: 30398 & 35004 & 35008 (Chalk)			Laboratory: ALS BRISBANE							
Area / Prospect: REGIONAL STRATA SEDIMENTS			Collected By: S. CATHNESS			Date: 31-10-85							

024044

CRA EXPLORATION PTY. LTD.

SAMPLE NUMBER	LOCATION			ANALYSES										Geological Observations	
	Easting	Northing	Sample Type	Cu	Pb	Zn	Ag	As	Fe %	Mn	Au PPG	Pb PPG			
981992	378070	5332750	-4"									330	1m. Plunged Heavy Fe/Mn stain? Contains Queen River Flint		
993			-80"	15	35	85	<1	12	1.43	320	43		70% dark shales (S.I) 30% grey green foliated siltstone o/c - black shales (Silurian)		
981994	377650	5333840	-"									350	1 1/2 m nodded Mn-ox Fe/Mn Boulders. Possibly glacial orv.		
981995			-80"	5	25	20	<1	6	0.25	45	43		concretionary banks Flint: everything including shales, quartz, various tuffs, quartzophony, vein quartz		
DETECTION LIMIT				2	5	2	1	1	0.01	5	3	50			
ANALYTICAL METHOD				ICP									AAS ICP EPA LEACH		
Project : QUEENSTOWN - ZEEHAN				1 : 250 000 Sheet : QUEENSTOWN				AMG Zone : 55				Sheet No. :			
Tenement : LYNCHFORD EL 47/83				DPO's : 35004 & 30398				Laboratory : ALS / AMDEL							
Area / Prospect : REGIONAL DRAINAGE								Collected By : MCLEMMANTSON				Date : 7.11.85			

Appendix V
Aberfoyle Resources Ltd. -
Rock Chip Geochemistry Assay Results

ANALABS

524049

Phone (09) 458 7999

A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106
FAX: 004 31 8890

Telex AA92560

ANALYTICAL REPORT No. 23.3.08.05735

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

Aberfoyle Resources Exp. Division
P.O. Box 952
Burnie
Tasmania 7320

ORDER No.	PROJECT
4854	
DATE RECEIVED	RESULTS REQUIRED
21/09/88	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
2	25/10/88	1	17

STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS				
			DRY	CRUSH	SPLIT	PUL-VERSE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
		482001/13, 482015/18	RC								Cu, Pb, Zn, Ag/101, As/114		
		482001/13, 482015/18	RC								Ba, Cr, Zr, Ti, V/401		
		Various	RC								Au/309		

RESULTS

TO

R. de Bomford
Aberfoyle Resources Exp. Division
P.O. Box 952
Burnie
Tasmania 7320

RESULTS

TO

REMARKS

*LYNCHFORD
Rock chips*

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core	perchloric acid A1	atomic absorption AAS
split core	hydrochloric acid A2	x-ray fluorescence XRF
cutting	nitric acid A3	spectrophotometry SPEC
rock	aqua regia A4	colorimetry COL
soil	nitric-perchloric A5	chromatography CHR
pulp	HF mixture A6	titration TTN
water	HF under pressure A7	other chemical means CHEM
sludge	fusion A8	miscellaneous MISC
stream sediment		fluorescence FLUOR
heavy mineral		inductively coupled plasma ICP

AUTHORISED OFFICER 

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

524050

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

	25. 3. 08. 05735	25/10/88	4854	1 OF 2
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TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Au	Ba	As	Cr	Zr
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9	482007	5	20	35	<0.5		1640	1	<5	190
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17	482018	10	15	40	<0.5	<0.008	525	5	5	240
----	--------	----	----	----	------	--------	-----	---	---	-----

8										
9										
10										
11										
12										
13	DETECTION	5	5	5	0.5	0.008	10	1	5	5
14	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
15	METHOD	101	101	101	101	307	401	114	401	401

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 -- = element not determined

AUTHORISED OFFICER

ANALABS

A Division of Macdonald Hamilton & Co. Pty Ltd.

524051

ANALYTICAL DATA

SAMPLE PREFIX	REPORT NUMBER	REPORT DATE	CLIENT ORDER No.	PAGE
	23-3-09-00770	20/10/08	4004	01
BE D.	SAMPLE No.	REF ID		
	Ti	V		

482009	2240	37							
--------	------	----	--	--	--	--	--	--	--

482018	1720	32							
DETECTION	10	5							
UNITS	PPM	PPM							
METHOD	401	401							

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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ANALYSIS

INVESTIGATION

#23.3.08.05846	08/12/88	5068	1 OF 8
----------------	----------	------	--------

23	482041	y	<5	10	25	<0.5	-	-	1400	-	3
24	482042	x	<5	<5	200	<0.5	-	-	30	-	2
25											

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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ANALABS

ANALYTICAL DATA

23.3.08.05846 †

108/12/88

5068

2 OF 8

7	482050	x	5	<5	90	<0.5	-	-	340	-	36
---	--------	---	---	----	----	------	---	---	-----	---	----

Results in ppm unless otherwise specified
 T = element present but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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524056

ANALYSIS

ANALYSIS DATA

23.3.08.05846 108/12/88 5068 6 OF 8

7	482050	x	5	250	1450	-	30				
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ANALABS

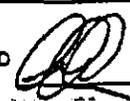
ANALYTICAL DATA

23.3.08.05846 08/12/88 5068 4 OF 8

1	482094	X	10	30	45	<0.5	-	-	1050	-	3
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9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23	DETECTION	5	5	5	0.5	0.008	0.008	10	0.01	1	
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	
25	METHOD	101	101	101	101	309	309	401	403	114	

Results in ppm unless otherwise specified
 T = element present but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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23.3.08.05846 08/12/88 5068 8

1	482094	<5	330	1800		50			
---	--------	----	-----	------	--	----	--	--	--

13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	5	5	50	0.01	5			
24	UNITS	PPM	PPM	PPM	%	PPM			
25	METHOD	401	401	401	408	401			

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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524058

ANALABS

ANALYTICAL REPORT

23 01 08 05952

Aberfoyle Resources Exp. Division
 P.O. Box 952
 Burnie
 Tasmania 7320

20701/89

64702/B9

01

482101/02, 482104/11	RC	Prep: 009, 011, 012, 013, 016	Cu, Pb, Zn, Ag/101, As/110
482101/02, 482104/11	RC		Ba, Cr, Zr, Ti, Y/401, Au, AuChk/309

R. de Bomford
 Aberfoyle Resources Exp. Division
 P.O. Box 952
 Burnie
 Tasmania 7320

REMARKS

RESULTS

RESULTS

TO

STATE OF SAMPLES

ANALYSIS — PREPARATION

ANALYSIS — METHOD

rock core soil core cutting rock soil pulp water sludge stream sediment heavy mineral	peroxide acid hydrochloric acid nitric acid aqua regia nitric perchloric HF mixtures HF under pressure fusion	A1 cold acid A2 specific sulphide A3 other mixed acids A4 alkaline attack A5 volatilization A6 ignition A7 pressed powder (XRF) A8 glass fusion (XRF)	CA SS Ma AA VO IG PP GF	atomic absorption x-ray fluorescence spectrophotometry colorimetry chromatography titration other chemical means miscellaneous fluorescence inductively coupled plasma	AAS XRF SPEC COL CHR ITN CHEM MISC FLUOR ICP
--	--	--	--	---	---

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059

524000

ANALABS

ANALYTICAL DATA

SAMPLE PREFIX REPORT NUMBER REPORT DATE CLIENT ORDER No. PAGE

23.7.0R.05952

06/02/89

5372

1 OF 2

LIBRARY No.	SAMPLE No.	Cu	Ag	Au	Ba	As	Cr	Zr
-------------	------------	----	----	----	----	----	----	----

6	482107	70	<5	90	0.5	<0.008	2700	3	130	100
---	--------	----	----	----	-----	--------	------	---	-----	-----

12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	0.5	0.008	10	1	1	5
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	101	101	309	401	401	401	401

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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ANALABS ANALYTICAL DATA

SAMPLE PREFIX REPORT NUMBER REPORT DATE CLIENT ORDER No. PAGE

23.3.08.05952

06/02/89

5372

2 OF 2

TUBE No.	SAMPLE No.	...	...	...	...	...	...	...	...
1									
2									
3									
4									
5									
6	482107	3650	15						
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	30	5						
24	UNITS	PPM	PPM						
25	METHOD	401	401						

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 -- = element not determined

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ANALABS

524062

Phone (09) 458 7999

A division of MacDonal Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106
FAX: 004 31 8890

Telex AA92560

ANALYTICAL REPORT No. 23.3.08.06115

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

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Tasmania 7320

6267	
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07/04/89	ASAP

No. OF PAGES OF RESULTS

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No. OF COPIES

TOTAL No. OF SAMPLES

2

26/04/89

1

9

STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS				
			DRY	CRUSH	SPLIT	PUL-VERSE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
		82123/29, 482350, 482450	RC								Cu, Pb, Zn, Ag/101, As/114		
		482123/29, 482350, 482450	RC								Au/309		
		482123/29, 482350	RC								Ba, Cr, Zr, Ti/401		
		482450	RC								Sn/401		

RESULTS

TO

Aberfolye Resources Exp. Division
P.O. Box 952
Burnie
Tasmania 7320

RESULTS

TO

REMARKS

LYNCHA FOLD

STATE OF SAMPLES	ANALYSIS — PREPARATION			ANALYSIS — METHOD			
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorption	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

AUTHORISED OFFICER _____

ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX
REPORT NUMBER
REPORT DATE
CLIENT ORDER No.
PAGE

23.3.08.06115

26/04/89

6267

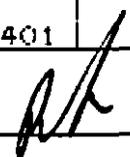
1 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Au	Ba	As	Cr	7r
3	482125	<5	15	15	0.5	<0.008	900	10	25	240

12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	0.5	0.008	10	1	5	5
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	101	101	309	401	114	401	401

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

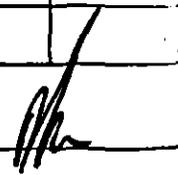
CLIENT ORDER No.

PAGE

		23.3.08.06115		26/04/89		6267		2 OF 2	
TUBE No.	SAMPLE No.	Tl	Sn						
1			-						
2			-						
3	482125	1250	-						
4			-						
5			-						
6			-						
7			-						
8			-						
9			-						
10			-						
11			-						
12			-						
13			-						
14			-						
15			-						
16			-						
17			-						
18			-						
19			-						
20			-						
21			-						
22			-						
23	DETECTION	50	3						
24	UNITS	FPM	PPM						
25	METHOD	401	401						

Results in ppm unless otherwise specified
 T = element present: but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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Appendix VI
Aberfoyle Resources Ltd. -
Stream Sediment Geochemistry Assay Results
(-72 mesh and -4 mesh BCL)

ANALABS

524066

A division of MacDonald Hamilton & Co. Pty. Ltd.

52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

Phone (09) 458 7999

FAX: 004 31 8870

ANALYTICAL REPORT No. 2732 15 0633

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

Aberfolye Resources Exp. Division
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Burnie
Tasmania 7320

ORDER No. 6253 PROJECT

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No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
2	01/05/89	1	3

SAMPLE NUMBERS	PRE-TREATMENT								ANALYSIS		
	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
482401/41	SS	Prep: 001, 013, 016							Cu, Pb, Zn, Ag/101, As/114		
482401/41	SS								Ba/401, Au/309		
482401/41	SS								AuChk/309		

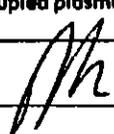
RESULTS TO
Aberfolye Resources Exp. Division
P.O. Box 952
Burnie
Tasmania 7320

RESULTS TO

REMARKS
LYN GENERAL.
LYNCHMORIS
- 72 #
STREAM SEDS

SEE PLAN No.
LYN 15
FOR LOCATIONS.

STATE OF SAMPLES	ANALYSIS — PREPARATION						ANALYSIS — METHOD	
WC	perchloric acid	A1	cold acid	CA	atomic absorption	AAS		
SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF		
CU	nitric acid	A3	other mixed acids	Mo	spectrophotometry	SPEC		
Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL		
SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR		
PU	HF mixture	A6	ignition	IG	titration	TTN		
WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemical means	CHEM		
TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC		
SS					fluorescence	FLUOR		
HM					inductively coupled plasma	ICP		

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005

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524067

ANALYTICAL DATA

SAMPLE IDENTIF

REPORT NUMBER

REPORT DATE

CLIENT ORDER NO.

TYPE

23. 5. 08- 06134

01. 02. 097

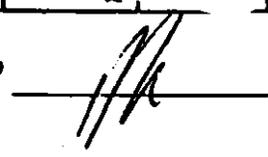
6271

"

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Au	Ba	As	E	N
1	482401	10	<5	35	<0.5	<0.01	20	4	379868	5329562
2	482402	5	<5	35	<0.5	<0.008	<10	5	379750	5329525
3	482403	25	5	45	<0.5	<0.008	15	5	379942	5329130
4	482404	5	<5	20	<0.5	<0.008	25	3	379925	5329105
5	482405	5	25	80	<0.5	0.246	580	19	379210	5328037
6	482406	5	25	80	<0.5	<0.008	200	11	378660	5328091
7	482407	20	40	65	<0.5	<0.008	300	8	378660	5328042
8	482408	35	45	75	<0.5	0.008	15	7	378251	5328632
9	482409	10	10	45	<0.5	<0.008	140	4	378241	5328665
10										
11	482411	5	<5	30	<0.5	<0.008	40	3	379762	5328704
12	482412	5	<5	25	<0.5	<0.008	35	4	379206	5328713
13	482413	5	<5	25	<0.5	<0.008	50	6	379585	5327910
14	482414	5	<5	45	<0.5	<0.008	25	4	379620	5329020
15	482415	5	10	50	<0.5	<0.008	70	3	379179	5329076
16										
17	482417	5	30	65	<0.5	<0.008	130	9	379036	5328884
18										
19										
20	482420	55	25	95	<0.5	<0.008	15	7	379964	5330014
21	482421	10	10	60	<0.5	<0.008	140	3	379936	5330475
22	482422	45	45	105	<0.5	<0.008	590	9	378940	5332020
23										
24			5							
25										

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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524068

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER NO.

23.3.08.06134

01/05/89

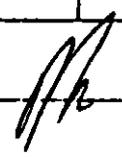
6293

01

SAMPLE No.	Cu	Pb	Zn	Ag	Au	Ba	As	E	N
482435	15	80	70	<0.5	<0.008	120	9	379405	5330650
482436	<5	<5	15	<0.5	<0.008	50	3	379375	5330655
482437	25	20	145	<0.5	<0.008	70	4	379380	5330910
482438	10	15	40	<0.5	<0.008	80	7	379355	5330875
482439	<5	<5	25	<0.5	<0.008	130	3	378912	5331120
482440	15	5	35	<0.5	0.008	290	5	379092	5331400
482441	45	85	85	<0.5	<0.008	15	5	380190	5332215
NOTE: Au Checks for sample number 482405 are 0.934 and 1.350.									
Weight of this sample was 15.8 gms. There is no more sample									
to do further checks.									
DETECTION	5	5	5	0.5	0.008	10	1		
UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM		
METHOD	101	101	101	101	309	401	114		

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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524070

Appendix VII
Aberfoyle Resources Ltd. -
Soil Sampling Geochemistry
Location Sheets and Assay Results

LICENCE: 039

1400N

524071

①

PROJECT:

LYNCH FORD.

SAMPLED BY:

COORD	NUMBER	DEPTH	COLOUR
1600	514036	50	BR/GR
25	037	50	BR/GR
50	038	50	BR
75	039	60	L/GR
1700	040	90	L/YW/WH
25	041	80	GR/BR
50	042	50	L/GR/WH
75	043	60	BR/L/BR
1800	044	70	BR/L/BR
25	045	70	BR/WH
50	046	70	BR/L/GR
75	047	60	L/GR
1900	048	80	L/GR
25	049	30	L/BR
50	050	90	BR/WH
75	051	90	BR/WH
2000	052	90	BR/WH

23-08-05900

370

318

15	514036	15	30	25	<0.5	610	3	20	220	1500
16	514037	15	30	25	<0.5	330	<1	55	170	1100
17	514038	10	25	25	<0.5	240	<1	7	140	830
18	514039	5	25	25	<0.5	510	<1	20	230	1250
19	514040	15	25	25	<0.5	25	<1	<5	75	310
20	514041	5	30	30	<0.5	760	<1	30	140	1700
21	514042	5	20	20	<0.5	580	<1	20	120	1850
22	514043	25	50	30	<0.5	390	2	55	290	2500
23	514044	15	40	25	<0.5	390	1	40	190	1850
24	514045	10	30	30	<0.5	460	<1	15	210	1200
25	514046	10	35					5	260	1350

Results in ppm unless otherwise specified

T = element present but concentration too low to measure

X = element concentration is below detection limit

- = element not determined

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ANALYTICAL DATA

ZS. S. 06. 03900

51701789

5318

210

1	514047	5	10	20	<0.5	600	1	15	200	1350
2	514048	10	15	35	<0.5	530	2	55	690	3150
3	514049	15	15	20	<0.5	220	<1	70	420	1700
4	514050	5	5	20	<0.5	25	<1	7	190	460
5	514051	5	<5	20	<0.5	<10	<1	55	90	290
6	514052	35	60	25	<0.5	280	2	30	680	2500

524074

T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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524076

ANALABS

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ANALYTICAL REPORT No. 23.3.08.06166

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ORDER No.

PROJECT

7534

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25/05/89

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28

DATE OF SAMPLES	SAMPLE NUMBERS	PRE-TREATMENT							ANALYSIS				
		DRY	CRUSH	SPLIT	PUL- VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD		
	514007/31,514033/35	SO	Prep: 01								Cu,Pb,Zn,Ag/101,As/114		
	514007/31,514033/35	SO									Ba,Cr,Zr,Ti/401		

RESULTS

TO

Aberfoyle Resources Exp. Division
P.O. Box 952
Burnie
Tasmania 7320

RESULTS

TO

REMARKS

CYNCH.
SOILS.

STATE OF SAMPLES

ANALYSIS — PREPARATION

ANALYSIS — METHOD

whole core
split core
cutting
rock
soil
pulp
water
sludge
stream sediment
heavy mineral

WC
SC
CU
Ro
SO
PU
WA
TI
SS
HM

perchloric acid
hydrochloric acid
nitric acid
aqua regia
nitric-perchloric
HF mixture
HF under pressure
fusion

A1
A2
A3
A4
A5
A6
A7
A8

cold acid
specific sulphide
other mixed acids
alkaline attack
volatilization
ignition
pressed powder (XRF)
glass fusion (XRF)

CA
SS
Ma
AA
VO
IG
PP
GF

atomic absorption
x-ray fluorescence
spectrophotometry
colorimetry
chromatography
titration
other chemicals means
miscellaneous
fluorescence
inductively coupled plasma

AAS
XRF
SPEC
COL
CHR
TTN
CHEM
MISC
FLUOR
ICP

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524077

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

23.3.08.06166

25/05/89

7534

1 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Ba	Cr	Zr	Ti
1	514007	50	45	55	0.5	7	510	95	180	2000
2	514008	110	25	55	<0.5	10	340	410	200	5800
3	514009	85	20	50	<0.5	10	360	410	210	6200

14	514020	10	5	20	<0.5	12	460	15	350	2200
15	514021	15	5	35	<0.5	12	1300	8	470	2600
16	514022	55	10	35	<0.5	26	970	75	430	3050
17	514023	25	15	20	0.5	21	420	30	210	2300
18	514024	20	10	20	<0.5	10	680	65	280	2500
19	514025	10	10	25	<0.5	5	510	9	340	2050
20	514026	20	15	40	<0.5	8	730	20	330	2500
21	514027	15	20	50	<0.5	8	510	20	320	1800
22	514028	10	15	25	<0.5	6	530	10	420	2200
23	514029	10	10	25	0.5	3	400	20	360	2150
24	514030	10	10	35	<0.5	4	680	<5	400	2050
25	514031	5	10	35	<0.5	1	620	10	340	1750

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

X = element present; concentration is below detection limit

-- = element not determined

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ANALYTICAL DATA

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REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

23.3.08.06166

25/05/89

7534

2 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Ba	Cr	Zr	Ti
1	514033	5	<5	15	<0.5	1	640	15	140	1250
2	514034	10	10	10	1.0	1	190	55	290	1500
3	514035	15	5	10	<0.5	2	540	30	230	1650
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	0.5	1	10	5	5	50
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	101	101	114	401	401	401	401

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 — = element not determined

AUTHORISED OFFICER



LICENCE:

SEASON

PROJECT: LYNCHFORD

SAMPLED BY:

524079

COORD	NUMBER	DEPTH	COLOUR
1700	110	40	BLACK
25	111	60	BLACK
50	112	30	CORRIOR
75	113	40	GREEN
1800	114	30	WH
25	115	80	PR
50	116	70	BLACK
75	117	70	GREEN
1900	118	80	GREEN

*

ANALABS

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Telex AA92560

FAX: 004 31 8890

ANALYTICAL REPORT No. 23.3.08.05700

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Tasmania 7320

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STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS				
			DRY	CRUSH	SPLIT	PUL-VERSE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
	Various		80	Prep: 016							Cu, Pb, Zn, Ag/101, As/114		
	Various		80								Ba, Cr, Zr, Ti/401		
	Various		80	Prep: 016							Cu, Pb, Zn, Ag/101, As/114		
	Various		80								Ba, Cr, Zr, Ti/401		

RESULTS TO

R. de Bonford
Aberfoyle Resources Exp. Division
P.O. Box 932
Burnie
Tasmania 7320

RESULTS TO

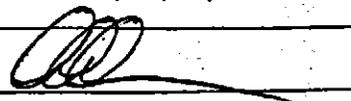
REMARKS

*LYNCHFORD SOILS
SEE 5959 FOR
UPDATED Pb^s. + As

RESULTS PENCILLED IN
IN THIS REPORT HAVE
BEEN USED IN THE
IMAGE PROCESSING.*

STATE OF SAMPLES	ANALYSIS — PREPARATION						ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorption	AAS	
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF	
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC	
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL	
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR	
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN	
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM	
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC	
stream sediment	SS					fluorescence	FLUOR	
heavy mineral	HM					Inductively coupled plasma	ICP	

AUTHORISED OFFICER



524080

019

NO	IDENTIFICATION	CO	CS	CR	CD	CE	CF	CG	CH	CI	CC	CD	CE
9	514111	40	35	20	20	20	20	20	20	20	20	20	20
10	514112	5	10	5	5	5	5	5	5	5	5	5	5
11	514113	10	10	5	10	10	10	10	10	10	10	10	10
12	514114	45	55	45	30	30	30	30	30	30	30	30	30
13	514115	<5	15	<5	15	15	15	15	15	15	15	15	15
14	514116	<5	10	<5	15	15	15	15	15	15	15	15	15
15	514117	<5	25	<5	15	15	15	15	15	15	15	15	15
16	514118	<5	10	<5	15	15	15	15	15	15	15	15	15

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORIZED OFFICER



524031

524032

Appendix VIII
King River Power Tunnel
Assay Results and Location Sheets

524033

LICENCE: Lynchford
PROJECT: Rock chip Sampling Headrace tunnel
King River Power Development.

SAMPLED BY: RF / DJN

METERS	NUMBER	DEPTH	COLOUR
6860			
6850			
6840	482370	378889	5331793
6830	(NOT TAKEN)		
6820			
6810			
6800	482339	378930	5331788
6790			
6780	482338	378969	5331786
6770			
6760			
6750	482337	378979	5331782

524035

ANALABS

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52 Murray Road, Welshpool, W.A. 6106
FAX: 004 31 8890

Telex AA92560

ANALYTICAL REPORT No. 23.3.08.06082

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06/04/89

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50

PRE-TREATMENT

ANALYSIS

STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS				
			DRY	CRUSH	SPLIT	PUL-VERSE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
		482300/49	RC	Prep: 009,011,012,013,016							Cu,Pb,Zn,Ag/101,As/114		
		482300/49	RC								Ba,Cr,Zr,Ti/401,Au/309		

REMARKS

KING RIVER RUNNER

RESULTS

TO

Aberfolye Resources Exp. Division
P.O. Box 952
Burnie
Tasmania 7320

RESULTS

TO

STATE OF SAMPLES

ANALYSIS — PREPARATION

ANALYSIS — METHOD

whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorption	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

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[Signature]

524036

ANALABS

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

		23.3.08.06082			--06/04/89		6224		2 OF 6	
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Hg	Au	Ba	As	Cr	Zr

13	482337	30	<5	250	<0.5	<0.008	1400	1	70	220
14	482338	10	<5	135	<0.5	<0.008	1000	2	85	240
15	482339	10	<5	115	<0.5	<0.008	760	1	75	250
16	482340	10	<5	100	<0.5	1.970	930	5	85	240
17	482341	<5	<5	45	<0.5	<0.008	920	1	70	260
18	482342	<5	<5	55	<0.5	<0.008	880	1	70	260
19	482343	<5	<5	45	<0.5	<0.008	620	3	80	230
20	482344	<5	<5	100	<0.5	<0.008	1300	12	75	2600
21	482345	<5	100	40	<0.5	<0.008	1360	22	95	270

- Results in ppm unless otherwise specified
 - Element present but concentration too low to measure
 - Element concentration is below detection limit
 - Element not determined

 AUTHORISED
 OFFICER



ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

23.3.08.06082

06/04/89

6224

5 OF 6

TUBE No.	SAMPLE No.	TI							
1									
2									
3									
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5									
6									
7									
8									
9									
10									
11									
12									
13	482337	2650							
14	482338	2950							
15	482339	2850							
16	482340	2950							
17	482341	2750							
18	482342	2900							
19	482343	2600							
20	482344	3000							
21	482345	3000							
22									
23									
24									
25									

Results in ppm unless otherwise specified
- element present, but concentration too low to measure
- element concentration below detection limit
- element not determined

AUTHORISED OFFICER



524037

4826

23

R. DeBomford
 Aberfoyle Resources Exploration Division
 P O Box 952
 Burnie
 Tas 7320

25
 30/0
 PASAP

2 09/02/90 1

27

4826, 51/77	RC	Prep: 015						Cu, Pb, Zn, Ag / 101
4826, 51/77	RC							Au, AuChk / 309
4826, 51/77	RC							Ba, As / 401

RESULTS

TO

R. DeBomford
 Aberfoyle Resources Exploration Division
 P O Box 952
 Burnie
 Tas 7320

REMARKS

K.P.
 Powell T.

RESULTS

TO

STATE OF SAMPLES		ANALYSIS — PREPARATION				ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorption	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

AUTHORISED OFFICER *[Signature]*

ANALABS

A Division of Incharge Inspection and Testing Services Australia Pty Ltd

ANALYTICAL DATA

23.3.08.08.06816

09/02/90

9397

1 OF 2

NO	SAMPLE NO	...	...	...	...	...	...	...	...	...
1	482651	20	10	70	<0.5	<0.008	<0.008	860	2	
2	482652	15	10	65	<0.5	<0.008	-	740	<2	
3	482653	20	5	100	<0.5	<0.008	-	840	<2	
4	482654	25	90	295	<0.5	<0.008	-	970	8	
5	482655	15	20	120	<0.5	<0.008	-	1100	2	
6	482656	15	5	55	<0.5	0.057	0.065	1050	8	
7	482657	20	20	110	<0.5	<0.008	-	410	2	
8	482658	20	25	135	<0.5	<0.008	-	440	<2	
9	482659	20	60	90	<0.5	<0.008	-	450	<2	
10	482660	20	15	125	<0.5	<0.008	-	570	<2	
11	482661	20	20	145	<0.5	<0.008	-	680	<2	
12	482662	20	15	190	<0.5	0.017	<0.008	680	<2	
13	482663	15	10	260	<0.5	<0.008	-	1100	<2	
14	482664	20	15	160	<0.5	<0.008	-	820	<2	
15	482665	20	10	240	<0.5	<0.008	-	1400	<2	
16	482666	20	20	290	0.5	<0.008	<0.008	1100	<2	
17	482667	20	25	95	<0.5	<0.008	-	760	2	
18	482668	15	15	125	0.5	<0.008	-	810	<2	
19	482669	20	15	80	<0.5	<0.008	-	960	<2	
20	482670	15	10	45	<0.5	<0.008	-	1000	<2	
21	482671	25	5	25	<0.5	<0.008	-	680	7	
22	482672	15	5	40	<0.5	<0.008	-	700	7	
23	482673	20	10	45	<0.5	<0.008	-	660	7	
24	482674	20	10	35	<0.5	<0.008	<0.008	730	3	
25	482675	20	10	50	<0.5	<0.008	-	910	<2	

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORISED OFFICER

524089

ANALABS

ANALYTICAL DATA

23/3-08-08-06815

09/02/90

9397

2 of 2

USE										
1	482676	20	10	95	<0.5	0.012		1050	3	
2	482677	20	5	80	0.5	<0.008		910	2	
3										
4										
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21										
22										
23	DETECTION	5	5	5	0.5	0.008	0.008	10		
24	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
25	METHOD	101	101	101	101	309	309	401	401	

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

524090

AUTHORISED OFFICER

524091

Appendix IX

Lynchford Petrological Descriptions and Locations

Petrographic Sample Locations

	<u>Sample No.</u>	<u>Co-ordinates</u>	
Aberfoyle Resources Ltd.	482009	378610 E	5334900 N
	482340	378894 E	5331791 N
	482350	378894 E	5331782 N
CRA Exploration Ltd.	989974	378200 E	5333070 N
	988953	377832 E	5334696 N

REPORT CHS 85/3/19

Five rock samples were received for petrographic study and for mineragraphy (sample 931799). Thin-sections (and one polished section) were prepared and examined, and are described in the attached table.

Summary

All the rocks are volcanic, and include rhyolites, an andesite, and a lapilli tuff.

Two of the rhyolites (988953, 988958) are extensively argillised, and there is uncertainty as to whether they are lavas or minor intrusives; on the whole, the surviving evidence suggests extrusive rocks. Field evidence may clarify the problem.

H.W. Fander, M. Sc.

001
SAMPLE: 989974: TSC46402

524094

Rock Name:

Graywacke

Hand Specimen:

This is a medium grained, well indurated rock with a grey colour. The rock contains darker grey coloured fragments up to about 1 cm in size. Staining with sodium cobaltinitrite after a hydrofluoric acid etch shows that the rock contains no potash feldspar.

Thin Section:

This is a detrital rock containing angular plagioclase and quartz grains as well as lithic clasts ranging up to about 1 mm in size. The detrital quartz and plagioclase grains typically exhibit angular shapes and many of the detrital plagioclase grains still retain well preserved elongate, lath shapes. The lithic clasts tend to have somewhat more rounded appearing shapes and in some cases are difficult to distinguish from the matrix which contains chlorite and fibrous phyllosilicates.

The thin section was cut to include one of the dark grey patches noted in hand specimen. This region consists of a much finer grained sedimentary rock containing angular quartz and feldspar grains up to 0.1 mm wide distributed through an argillaceous matrix. Within this area a well preserved foliation is defined by a concentration of opaque material along narrow discontinuous lamellae. This foliation direction is parallel to a much vaguer foliation direction evident in the coarser grained portion of the rock. A very vague mineralogical banding oriented at a high angle to this foliation is also evident in the argillaceous patch.

The detrital plagioclase is moderately fresh showing some alteration to finely divided sericite/clay. This alteration is highly variable even within the same detrital grain.

Opagues occur as disseminated grains and aggregates up to 0.2 mm wide. Very finely divided opaque material tends to be concentrated along narrow discontinuous lamellae which define a foliation direction.

This is an immature detrital sediment comprised mainly of detrital plagioclase and quartz grains. Much of the detrital plagioclase retains remnant lath shapes which could make them appear as phenocrysts in hand specimen accounting for the presence of a porphyritic appearing texture in parts of the hand specimen. The darker grey patches in hand specimen consist of a finer grained detrital sediment and are thought to represent finer grained, argillaceous regions in the original sediment. Both the argillaceous patches and the coarser grained proportion of the rock exhibit a bedding foliation defined by discontinuous opaque lamellae.

No.	Rock type - composition	Fabric	Minor Minerals	Comments
388- 353	Argillised, Devitrified Rhyolite. Small corroded quartz and argillised feldspar phenocrysts scattered through a uniform mass of fine quartz and sericite.	Felsitic devitrification textures common. Preferred orientation, but not distinct flow-features.	Fine leucoxene patches throughout.	Uniform, featureless rock; quartz is inverted beta-quartz. Probably originally a glassy lava, depending on field occurrence.

524096

SAMPLE NUMBER: 482009

GENERAL LOCATION: LYNCHFORD E.L.

SUMMARY: Mudstone

HAND SPECIMEN: Weakly cleaved, light grey uniform mudstone.

THIN SECTION: This sample is virtually identical to 482004. If any difference at all exists, it is that this sample has somewhat less detrital quartz than 482004, and a generally finer meshwork of sericite through the rock. Again, I see no evidence of a tuffaceous component in this boring rock.

SAMPLE NUMBER: 482340

SUMMARY:

This is a quartz+feldspar-phyric rhyolitic lava with a weak fracture cleavage, and quite strong calcite-chlorite-sericite alteration. It contains minor but significant concentrations of pyrite and chalcopryrite.

HAND SPECIMEN:

This is a massive grey-green quartz-phyric felsic lava or tuff with some apparent silicification(?) of the groundmass.

THIN SECTION DESCRIPTION:

This rock in thin seen is clearly a quartz+feldspar-phyric rhyolitic lava. Quartz phenocrysts make up around 5-10 modal% of the rock and are up to 3mm across. They are invariably rounded and resorbed grains that contain fairly abundant round, green chloritized melt inclusions. Angular broken crystals are absent. Feldspar phenocrysts are smaller than the quartz phenocrysts but slightly more abundant. They are elongate blocky prisms composed of albite after a more calcic plagioclase precursor. Many albitized plagioclase phenocrysts are slightly to notably rounded, and have been clearly reacting with the magma. Most are fairly thoroughly sericitized. Former biotite phenocrysts have broken down to chlorite, sericite and ilmenite, but make up only about 1 modal% or less of the sample.. The ilmenite occurs as bladed grains grown with their long axes orientated along the former biotite cleavage, and form due to the inability of chlorite and sericite to accept Ti released during biotite breakdown. Calcite also occurs within altered biotite phenocrysts. Altered FeTi oxide phenocrysts are not uncommon, and are replaced by leucoxene and magnetite/ilmenite intergrowths. Small euhedral zircon crystals are quite common in this section.

The recrystallized formerly glassy groundmass of this sample is a fine-grained mosaic intergrowth of albite and quartz that has been riddled with sericite and tiny rhombic calcite crystals. Grainsize within the groundmass and also extent of calcite alteration vary in a patchy fashion across the slide. Calcite is clearly replacing

000

quartz-albite in the groundmass. Sericite also occurs in dense mesh-like veins across the sample; these veins define what is probably a rough fracture cleavage, since many are subparallel.

Examination of the slide in reflected light shows a number of interesting features. Firstly, chalcopyrite is relatively abundant (but nevertheless still constituting only a tiny fraction of one modal% of the rock) as tiny blebs scattered randomly in the groundmass; it also occurs in several more concentrated patches in the groundmass, where some small cpy grains can be seen to be altering to magnetite. These concentrations of cpy do not appear to be replacing another opaque or silicate phase, but are within the groundmass. In similar fashion, a small concentration of pyrite containing minor intergrown chalcopyrite also occurs in the groundmass. No sulphide occurs along the weak fracture cleavage, although very fine-grained hematite(?) is common.

I think that this rhyolitic lava is similar to some of those I described for you in the last lot from Lynchford. The abundance of quartz phenocrysts and zircon would normally have suggested a similarity with Tyndall-Southwell Subgroup correlates, although there is no way to be sure of this. The degree of calcite-sericite alteration is notably more than typical 'background' levels in the regionally altered Mount Read Volcanics, and the pyrite-chalcopyrite development, although still minor, is more than typically seen in Mount Read felsic lavas away from known mineralization.

SAMPLE NUMBER: 482350

SUMMARY:

This rock is a porphyritic rhyolite originally similar to the samples described above, but it contains discontinuous bands of pyrite cubes up to 5mm wide, and scattered pyrite cubes throughout the devitrified groundmass of this formerly glassy lava. Chlorite and calcite are very sparse.

HAND SPECIMEN:

This is a massive brown quartz-phyric felsic lava containing quite abundant pyrite cubes up to about 1mm across in diffuse layers and irregular bands traversing the rock.

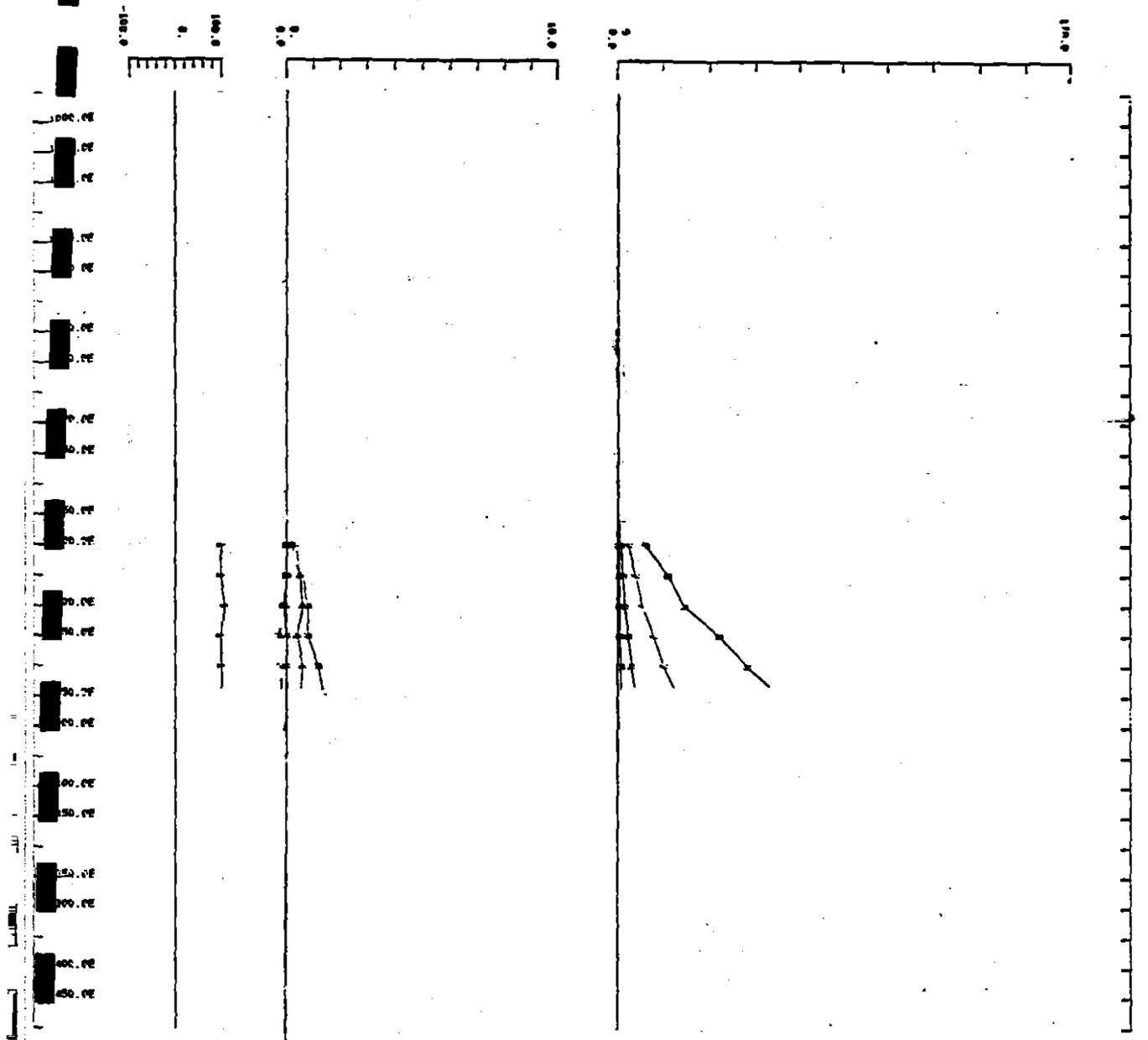
THIN SECTION DESCRIPTION:

This rock was probably very similar to the previous four samples originally, being a quartz+feldspar+biotite+FeTi oxide-phyric rhyolitic lava. However, although it is not apparently very deformed compared with samples 340 and 336 for example, the rock has been permeated by mineralizing solutions from which have grown abundant quite large euhedral pyrite grains. These form discontinuous bands of discrete crystals and aggregates, and also discrete cubes scattered randomly through the rock. In the bands, pyrite occurs intergrown with minor pale rusty coloured carbonate (siderite?), muscovite or well-crystallized sericite, and fibrous ribbon quartz. The latter also occurs as well-formed pressure fringes on pyrite cubes. The groundmass is variably recrystallized and quite strongly sericitized, and chlorite is rare.

In reflected light, the pyrite is seen to be free of other sulphide inclusions, but contains slight marginal alteration to an Fe-oxide or hydroxide phase.

324100

Appendix X
Specimen Creek Grid UTEM Survey Profiles



LYNCHFORD E.L., WESTERN TASMANIA

December 1988 Survey Loop 1

Contouring Normalized Data

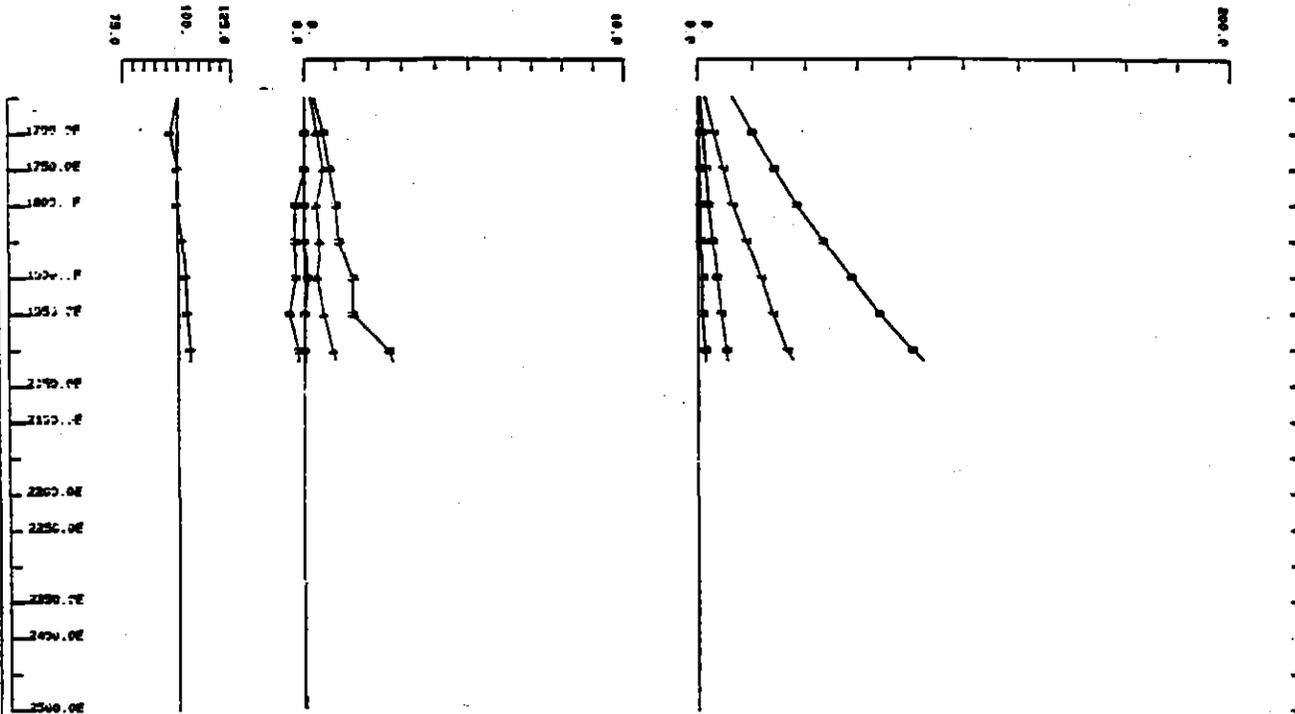
LINE 1600 N

Aberfoyle Resources Limited June 1989

Plot Date: 14/06/89 Horiz scale 1/300, Plot number: 15

5 cm

UTEM DATA - SECONDARY VERTICAL MAGNETIC FIELD

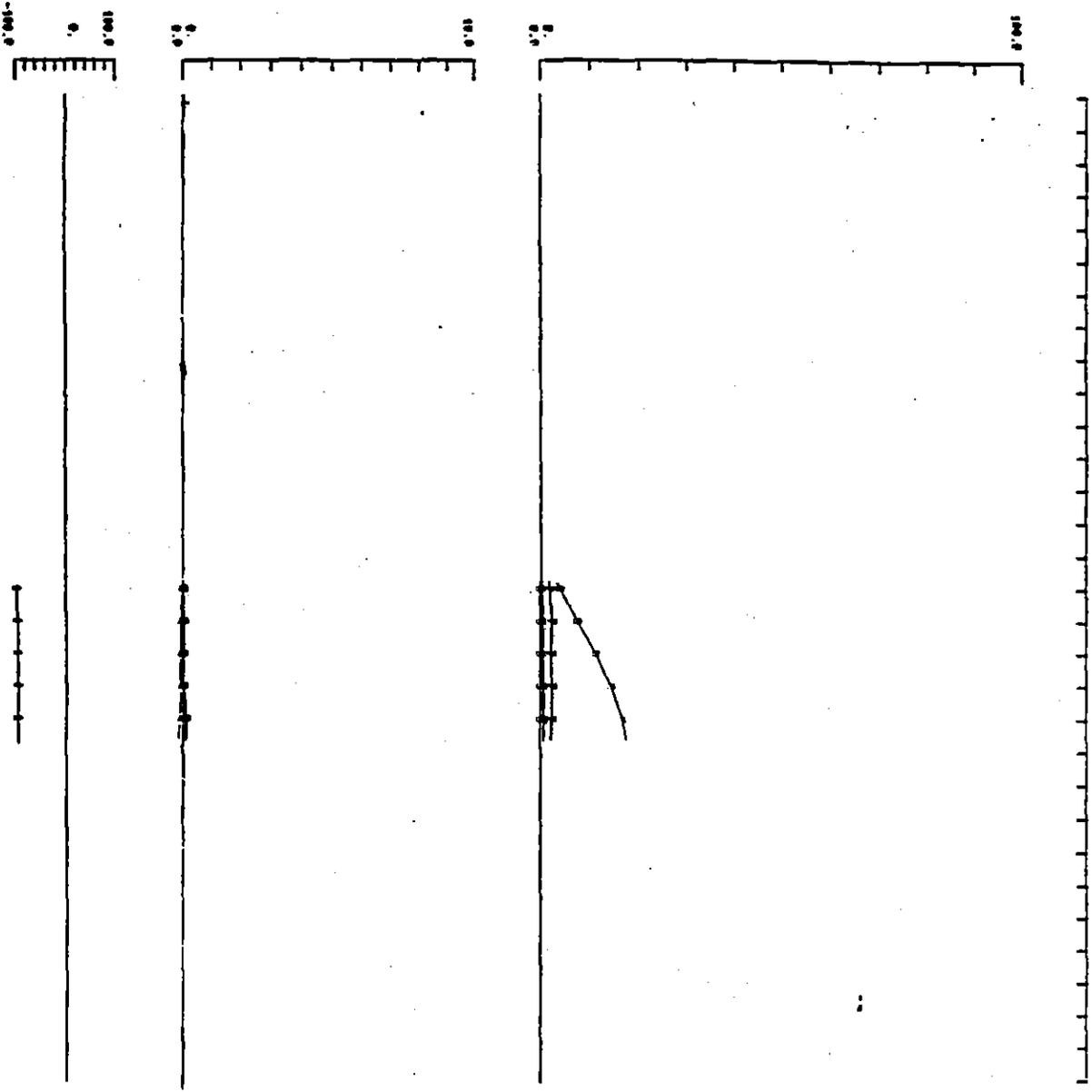


LYNCHFORD E.L. WESTERN TASMANIA
 December 1988 Survey Loop 1
 Continuously Normalized Data
 LINE 1400 N
 Aberfoyle Resources Limited June 1983
 Plot Date: 14/7/89 Horiz scale: 1/500.0 Plot number: 15

5 cm

UTEM DATA - SECONDARY VERTICAL MAGNETIC FIELD

524102

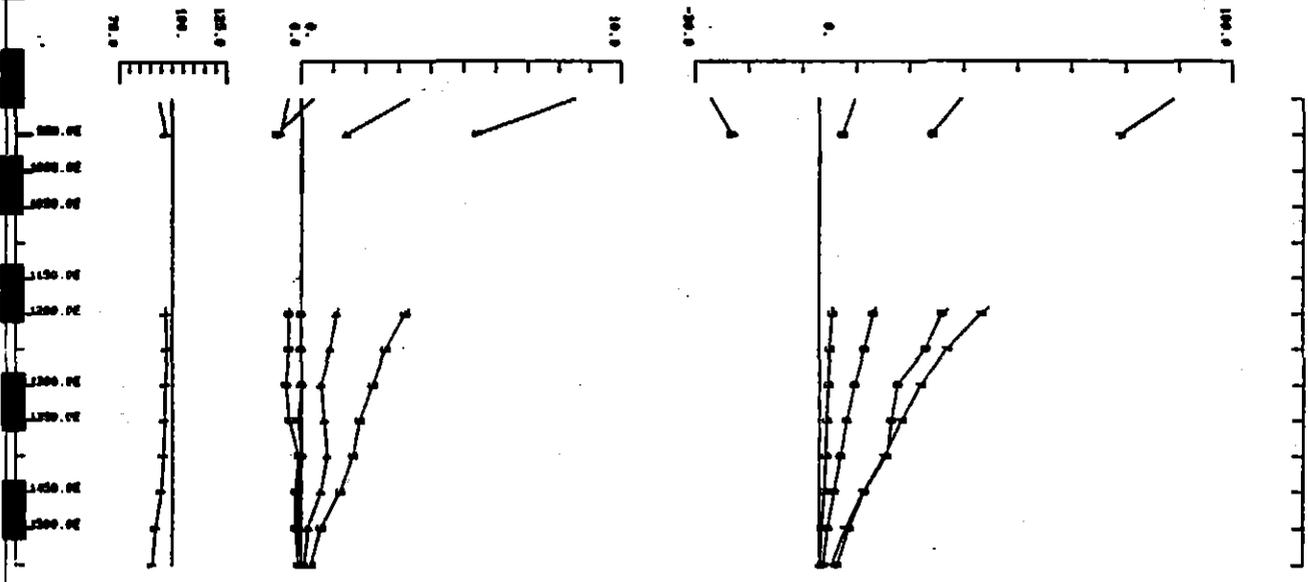


LINDFORD E.C. WESTERN TASMANIA
 December 1988 Survey Loop 2
 Continuously Normalized Data
 LME 1000 N
 Marryat Resources Limited June 1989
 Plot Date : 14/06/89 Horiz scale : 7500.0 Plot number : 24

5 cm

STEM DATA - SECONDARY VERTICAL MAGNETIC FIELD

204



LYNCHFORD E.L. WESTERN TASMANIA
December 1988 Survey Loop 2
Continuously Normalized Data
LINE 1400 W
Marfyale Resources Limited June 1989
Plot Date 14/06/89 Horiz scale 1:7500.0 Plot number : 23

5 cm

UTEM DATA - SECONDARY VERTICAL MAGNETIC FIELD

524104

524100

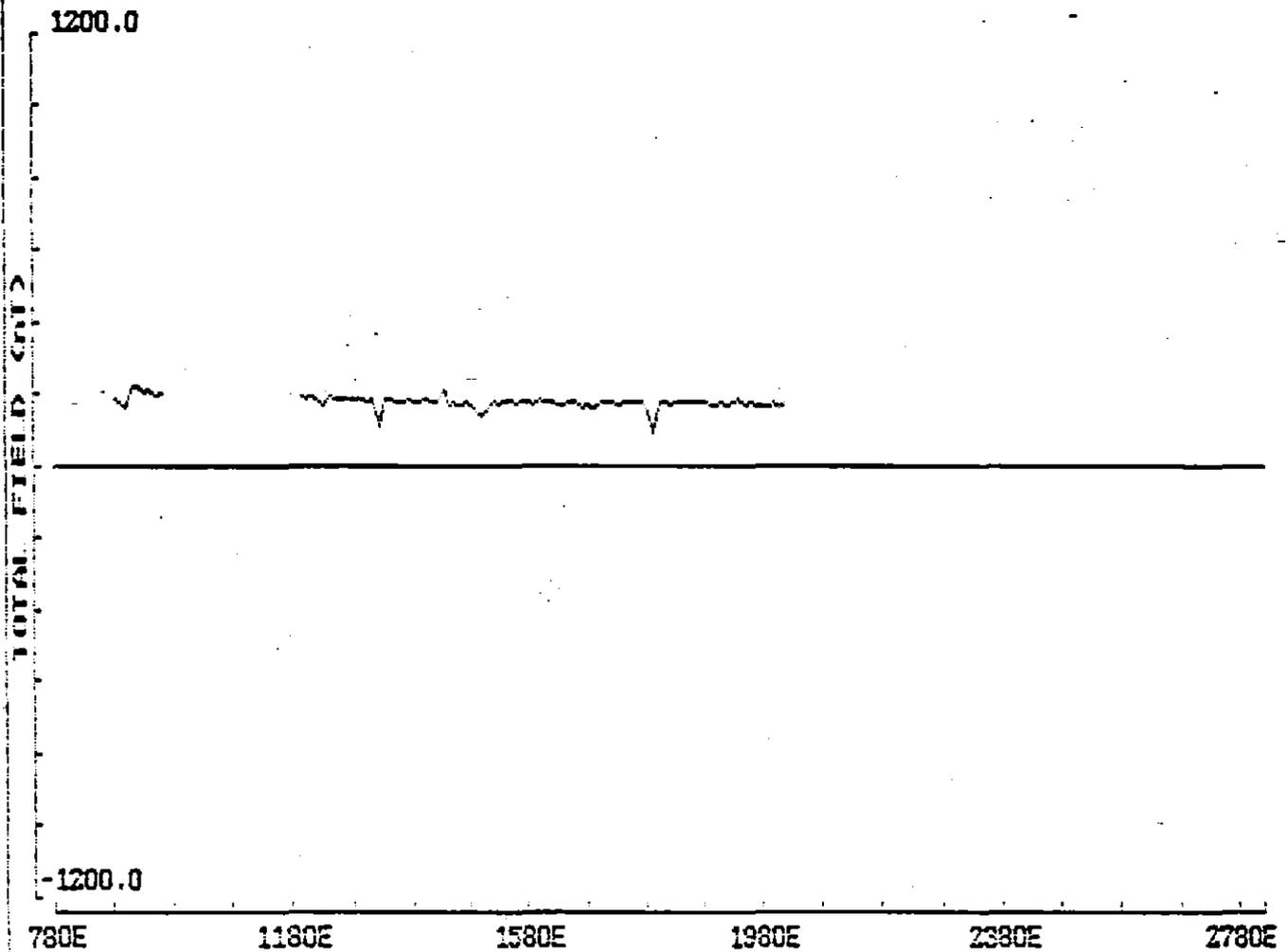
Appendix XI

Specimen Creek Grid Magnetic Survey Profiles

Client : ABERFOYLE EXPLN.
Prospect : LYNCHFORD

Surveyed by : HIGHLAND EXPLN.
Survey Date : JULY 1989

1400N



103

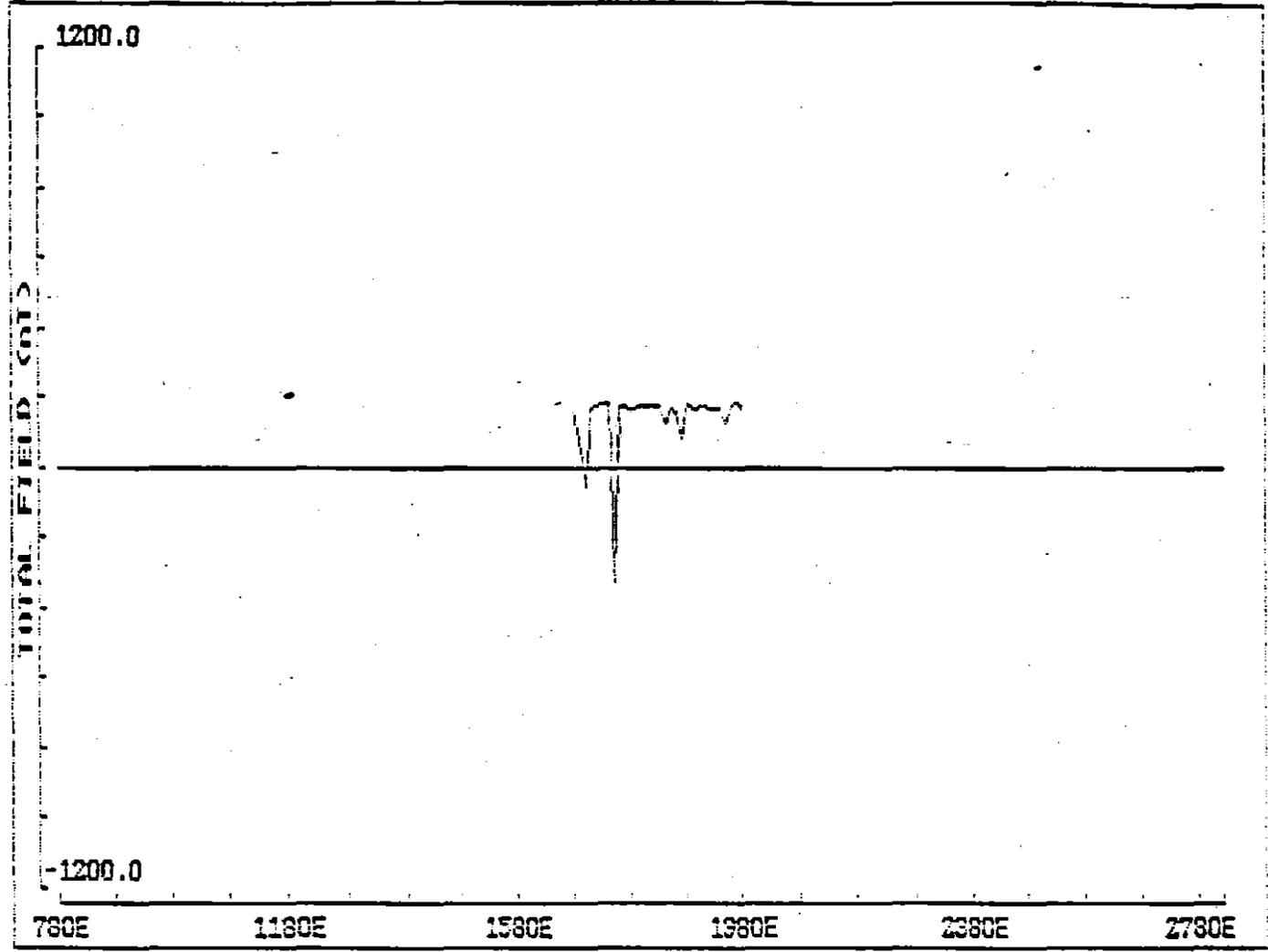
Client : ABERFOYLE EXPLN.

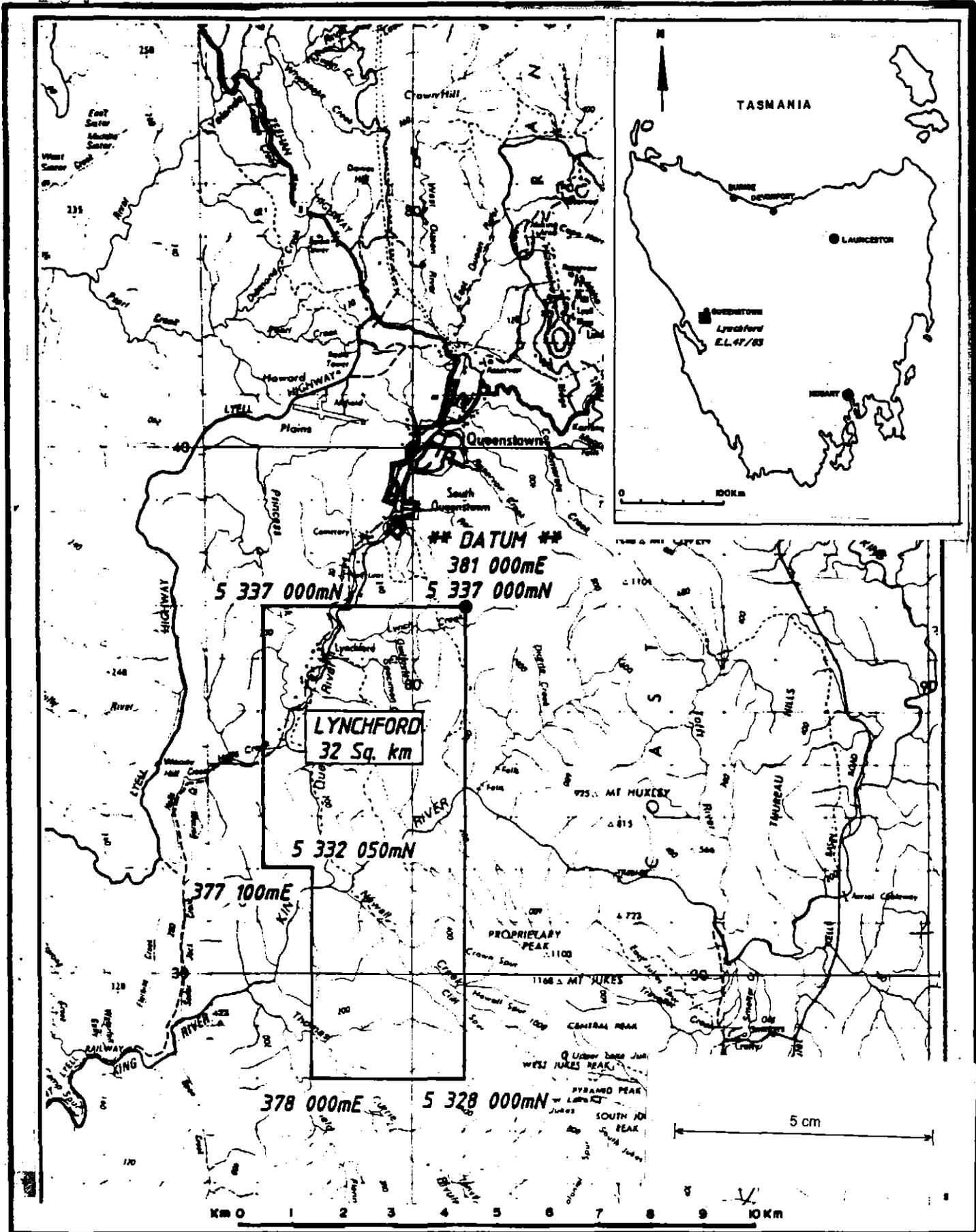
Surveyed by : HIGHLAND EXPLN.

Prospect : LYNCHFORD

Survey Date : JULY 1989

1600N





Aberfoyle Resources Limited
EXPLORATION DIVISION

NORTH WEST TASMANIA
LYNCHFORD E.L. 47/83
LOCATION PLAN

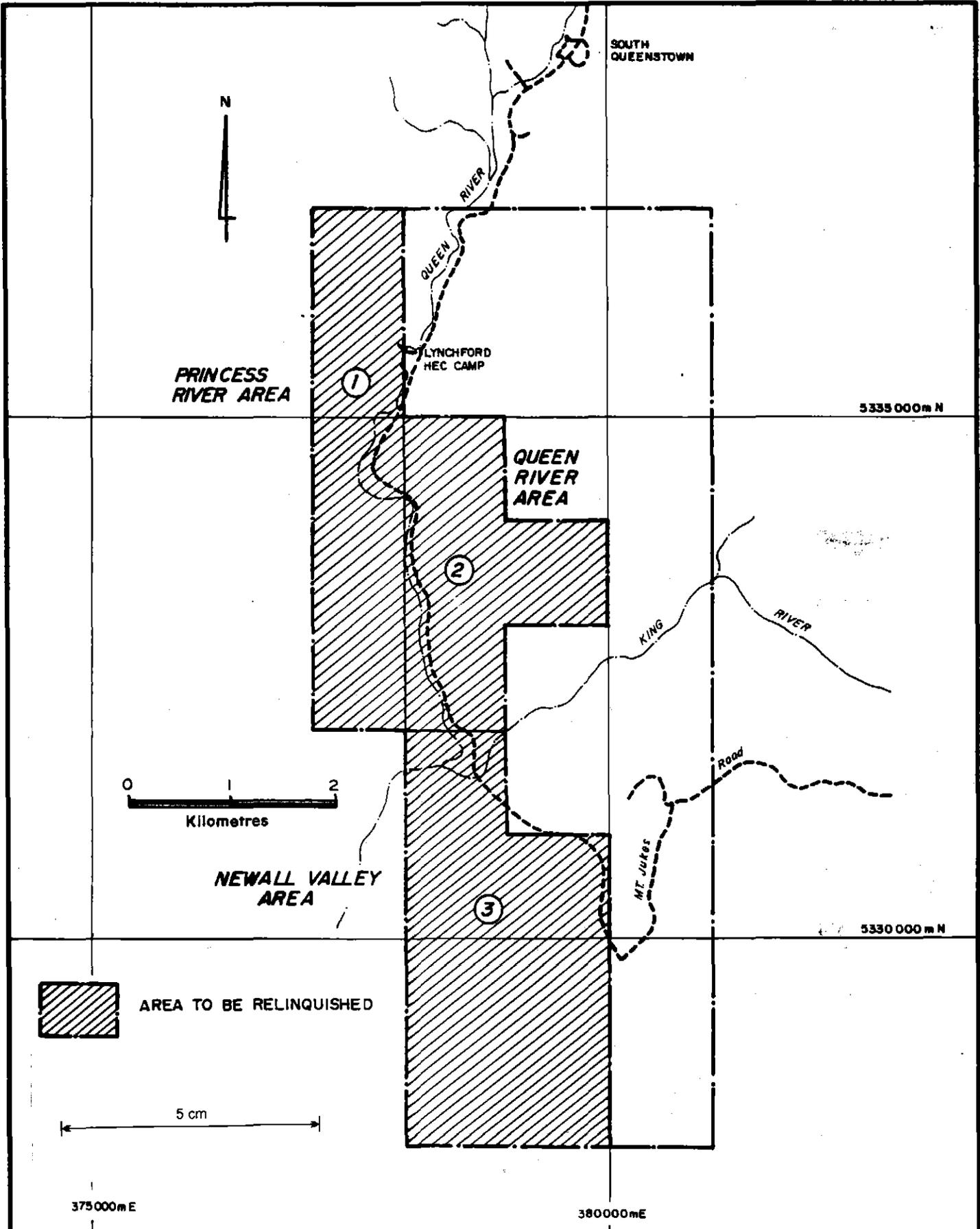
Compiled : DJN
Drawn :
Traced : JLR
Checked :
Plate No. : LYN 24

REVISIONS			
Init.	Date	Init.	Date

Location Code :

Scale : 1:100 000

Date : May, 1989



Aberfoyle Resources Limited
EXPLORATION DIVISION

REVISIONS			
Init.	Date	Init.	Date

WESTERN TASMANIA
LYNCHFORD E.L.47/83 - C.R.A. J.V.
AREA TO BE RELINQUISHED

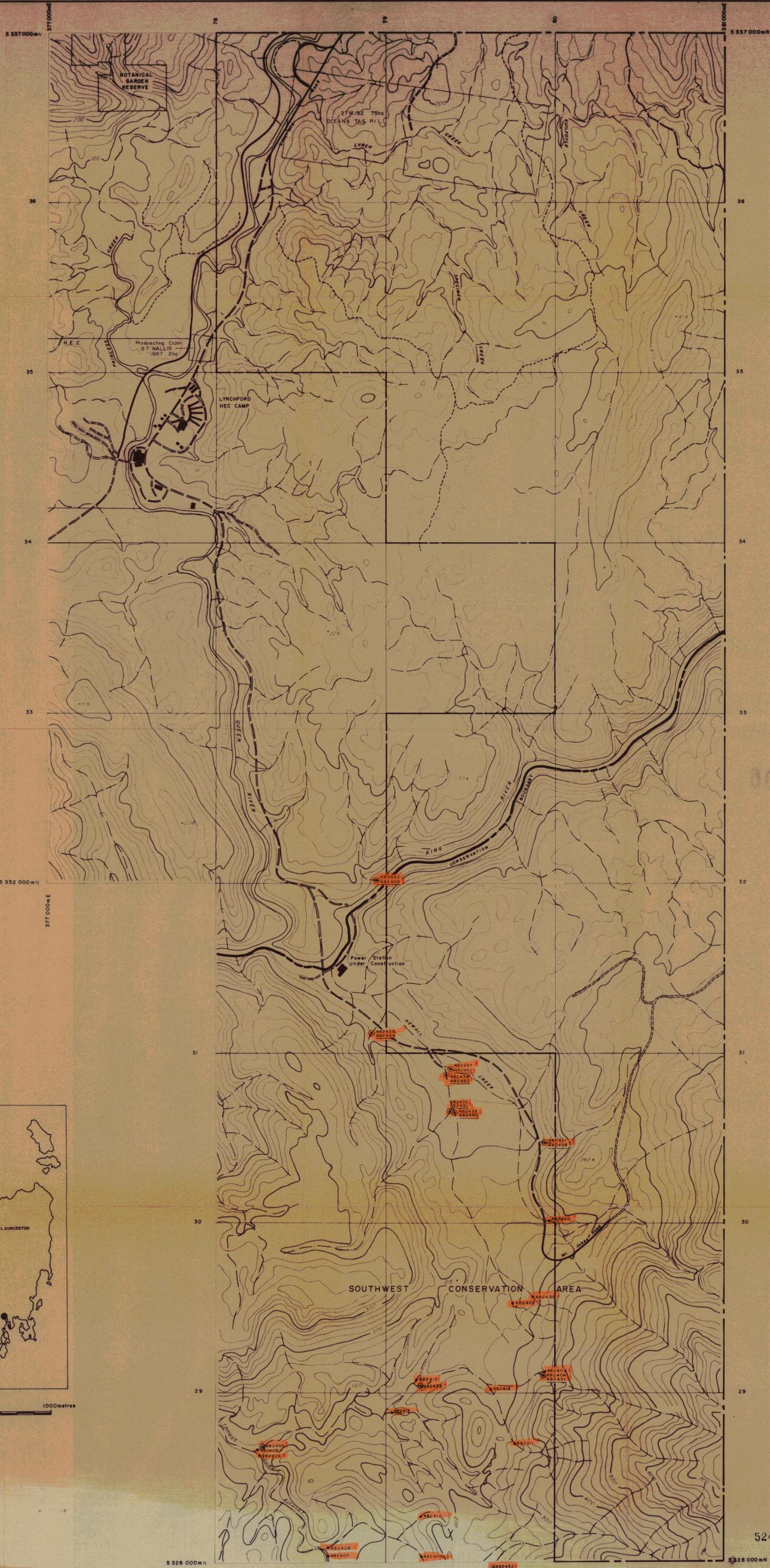
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Drawn :	RJE
Traced :	RJE
Checked :	DJN
Plate No. :	LYN. 37

Location Code :

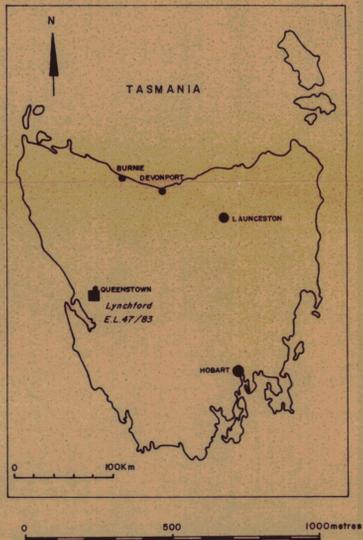
Scale : 1: 50,000

Date : January, 1990

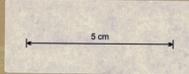
1511



00-2089

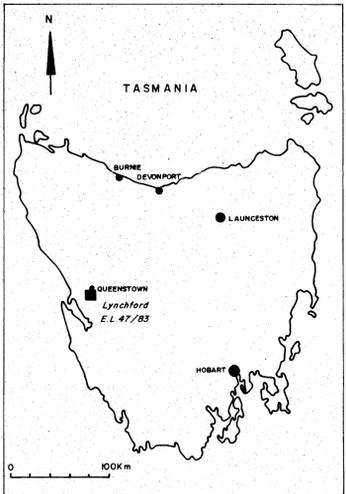
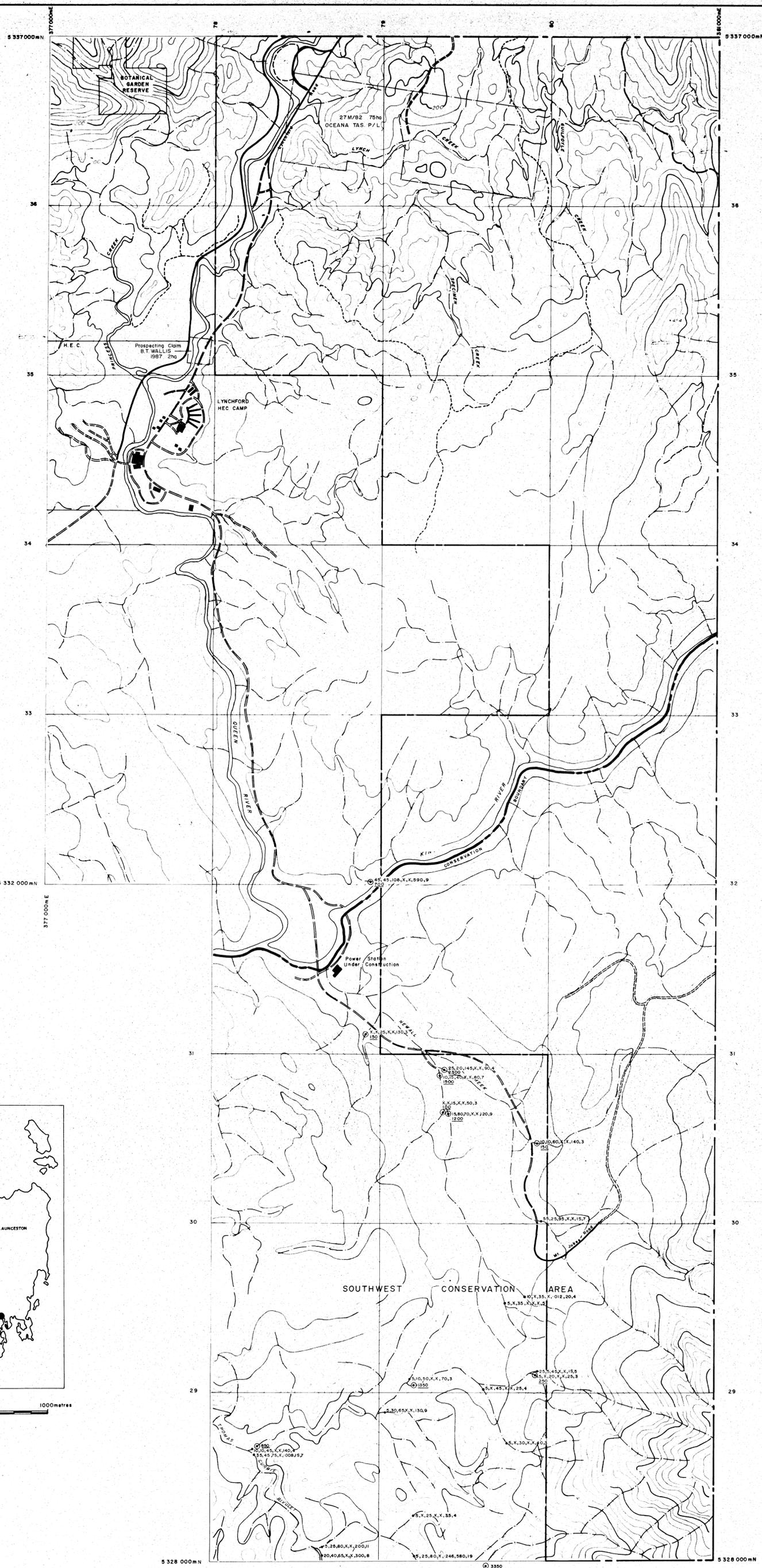


524111



5 328 000m N - 80m Sample
 5 328 000m N - 80m B.C.L. Sample (B.C.L. Sample No. Underlined)

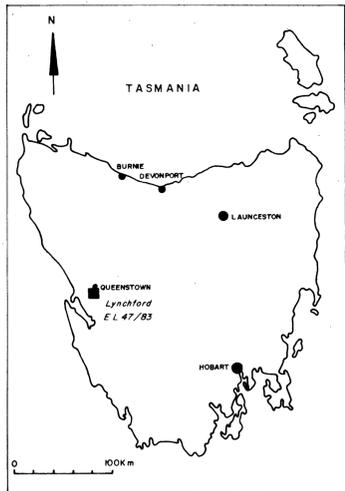
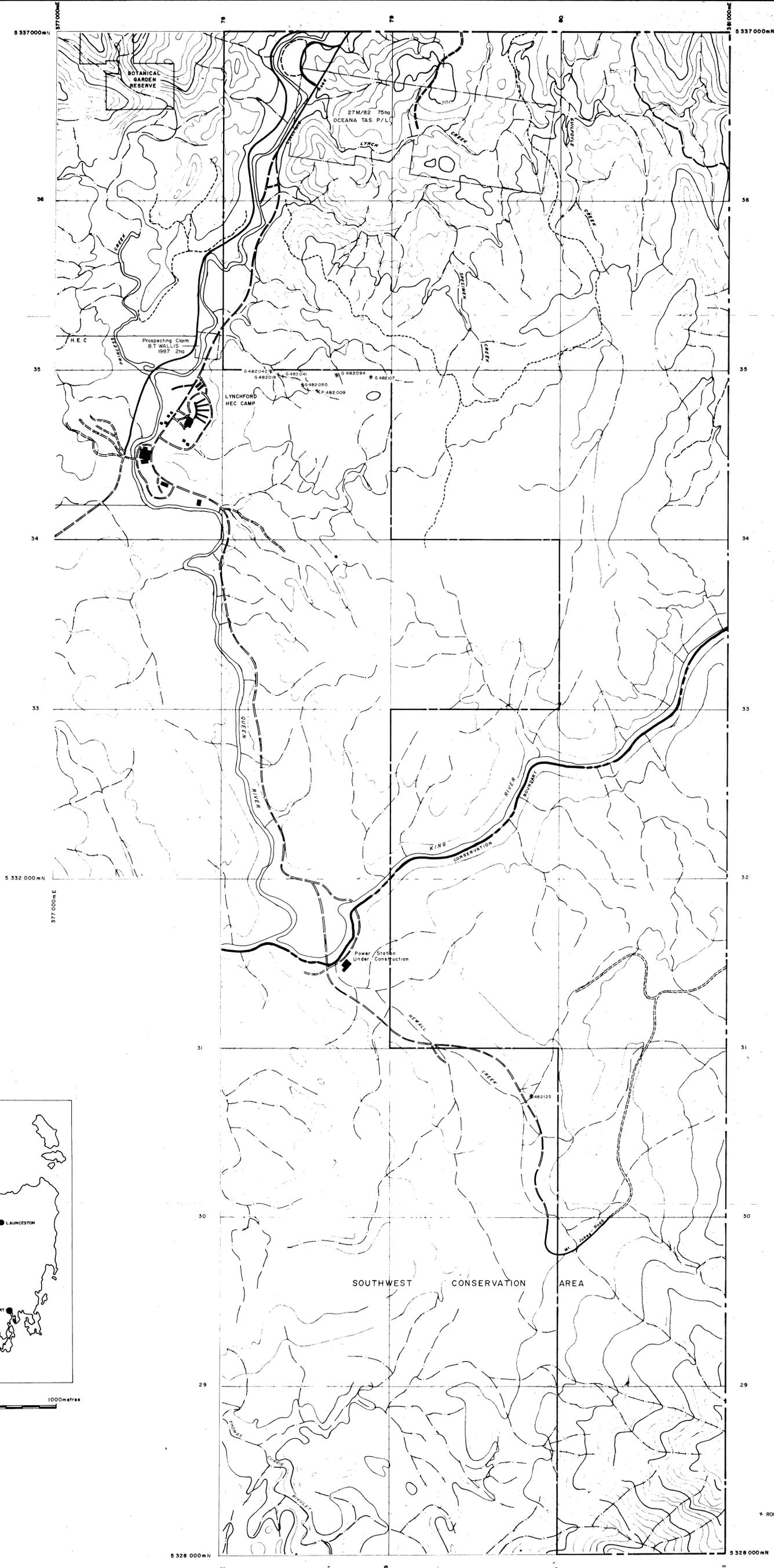
Aberfoyle Resources Limited				EXPLORATION DIVISION	
NORTH WEST TASMANIA				Compiled: DJN	
LYNCHFORD E.L. 47/83-CRA J.V.				Drawn: JLR	
STREAM SEDIMENT SAMPLE LOCATIONS				Checked: JLR	
Location Code: _____				Scale: 1:10,000	
Date: May, 1989				Plate No: LYN 15	



IS Insufficient Sample
 Cu, Pb, Zn, Ag, Au, Bi, As
 * BCL Au ppt (Underlined)

524112

Aberfoyle Resources Limited																											
EXPLORATION DIVISION																											
NORTH WEST TASMANIA																											
LYNCHFORD E.L. 47/83-CRA J.V.																											
STREAM SEDIMENT ASSAY RESULTS																											
<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>Init.</th> <th>Date</th> <th>Init.</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>DM</td> <td>13/2/90</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		REVISIONS				Init.	Date	Init.	Date	DM	13/2/90															Compiled: DJM Drawn: Traced: JLR Checked: Date: May, 1989 Plate No: LYN 16	
REVISIONS																											
Init.	Date	Init.	Date																								
DM	13/2/90																										
Location Code:		Scale: 1:10,000																									



0 500 1000metres

* ROCK CHIP SAMPLE LOCATION

524113

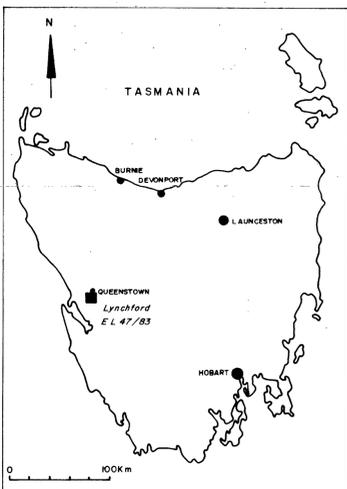
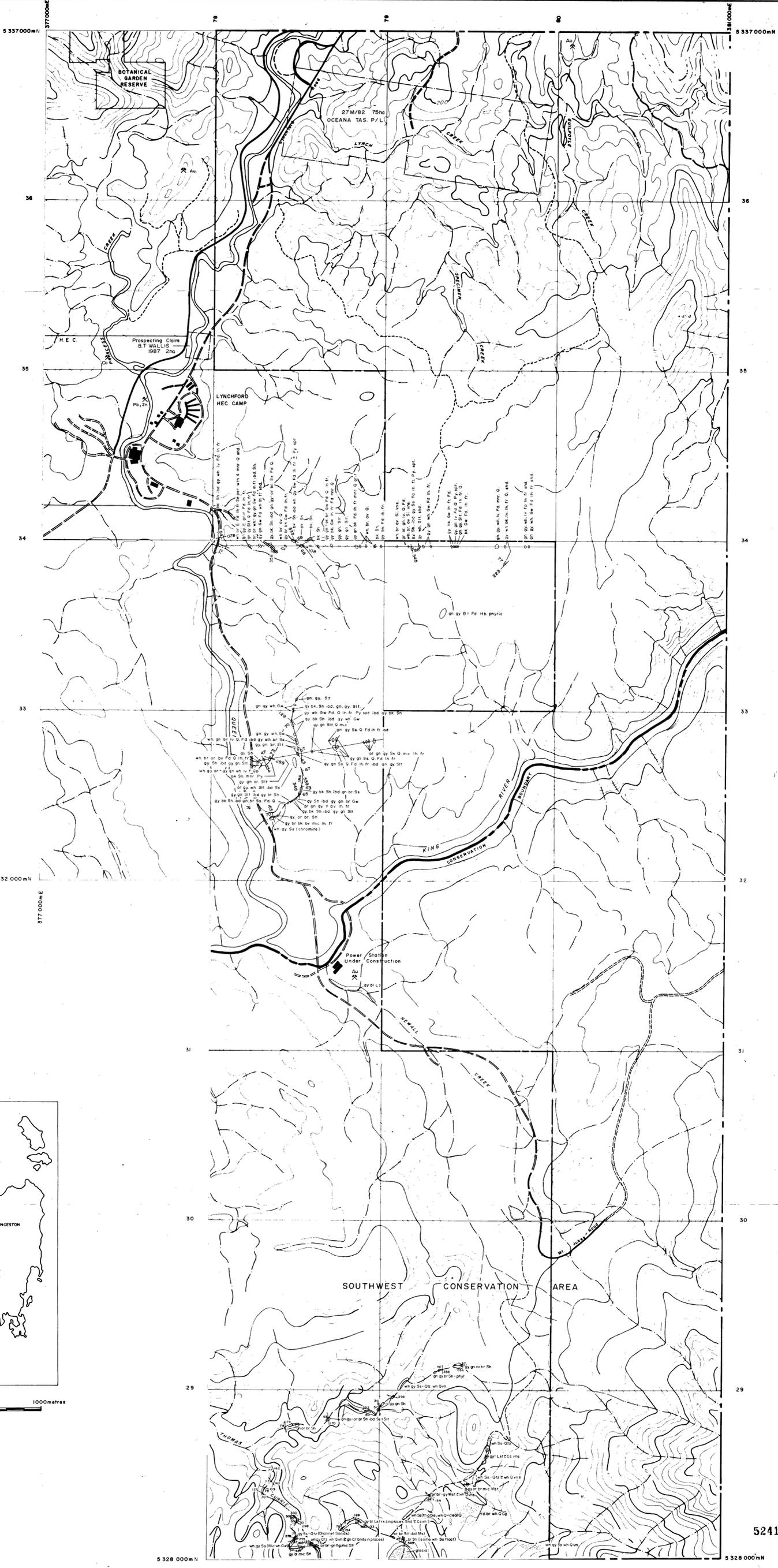
5cm

Aberfoyle Resources Limited
EXPLORATION DIVISION

NORTH WEST TASMANIA
LYNCHFORD E.L. 47/83-CRA J.V.
ROCK CHIP SAMPLE LOCATIONS

REVISIONS			
Int.	Date	By	Desc.
1	2/90	JLR	Issue
2	5/90	JLR	Update

Compiled: DJN
Drawn: JLR
Checked: JLR
Location Code: LYN 20
Scale: 1:10,000
Date: May, 1989
Plate No: LYN 20



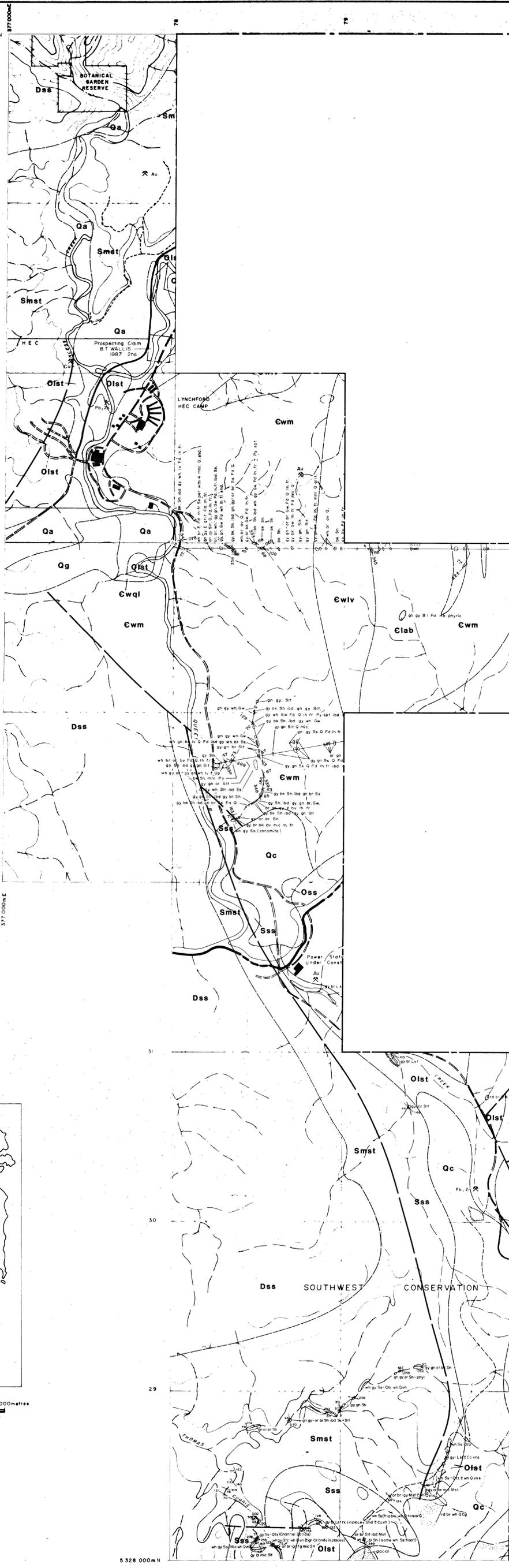
524114

Aberfoyle Resources Limited
EXPLORATION DIVISION

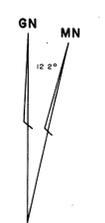
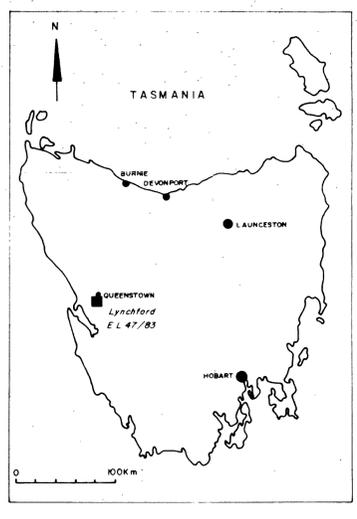
NORTH WEST TASMANIA
LYNCHFORD E.L. 47/83-CRA J.V.
OUTCROP GEOLOGY

REVISIONS				Compiled: D.J.N.
Slit	Date	Slit	Date	
				Drawn:
				Traced: J.L.R.
				Checked:

Location Code: Scale: 1:10,000 Date: May, 1989 Plate No: LYN 23



- QUATERNARY**
- Qa Recent alluvial Deposits
 - Qc Colluvial Scree
 - Qg Glacial till and outwash gravels
- DEVONIAN**
- Dss Fine grained quartz rich sandstone and minor interbedded siltstone and mudstone.
- SILURIAN**
- Smst Mudstone, siltstone and minor sandstone
 - Sss White quartz rich chromite bearing sandstone
- ORDOVICIAN**
- Oist Impure limestone and micritic limestone (Gardon Limestone)
 - Oss Grey quartz sandstone minor conglomerate and chromite layers (Pioneer Beds)
 - Ocg Undifferentiated Conglomerate and sandstones (Owen Conglomerate)
- CAMBRIAN**
- Ctfl Felsic lapilli volcanoclastic
 - Ctm Sandstone and Mudstone
 - Ctl Quartz, lithic fragment rich lapilli volcanoclastic
 - Elbv Breccia volcanoclastic (Quartz, Hematite rich)
 - Clyb Polymict Basaltic lapilli volcanoclastic
 - Elab Andesitic - Basaltic lavas & lava breccias
 - Ccvi Dominantly Dacitic lapilli volcanoclastic & Dacitic lavas with minor felsic porphyries and odd Andesitic and Rhyolitic lava.
 - Ccvs Black mudstone, siltstone and micaceous sandstone
 - Ccvp Intrusive and extrusive quartz feldspar porphyry
 - Eqvl Quartz rich lapilli volcanoclastic
 - Cwm Dominantly black shale, siltstone, sandstone & lapilli volcanoclastics with some units dominantly lapilli volcanoclastic (Ewlv) indicated.
 - Cmrs Quartz rich sandstone (Miners Ridge Sandstone)
 - Cmrb Tholeiitic Basalt (Miners Ridge Basalt)
- Tyndall Group*
- Que-Hellyer Equivalents?*
- Central 34 Volcanic Complex*
- Western Sequence*



524115

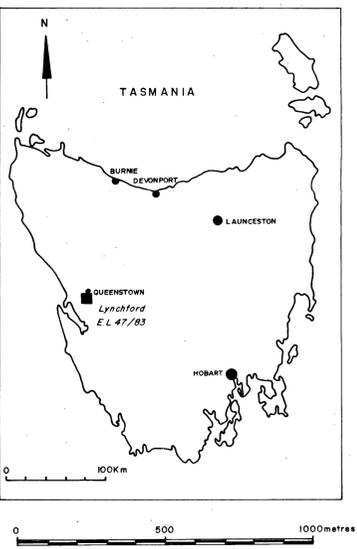
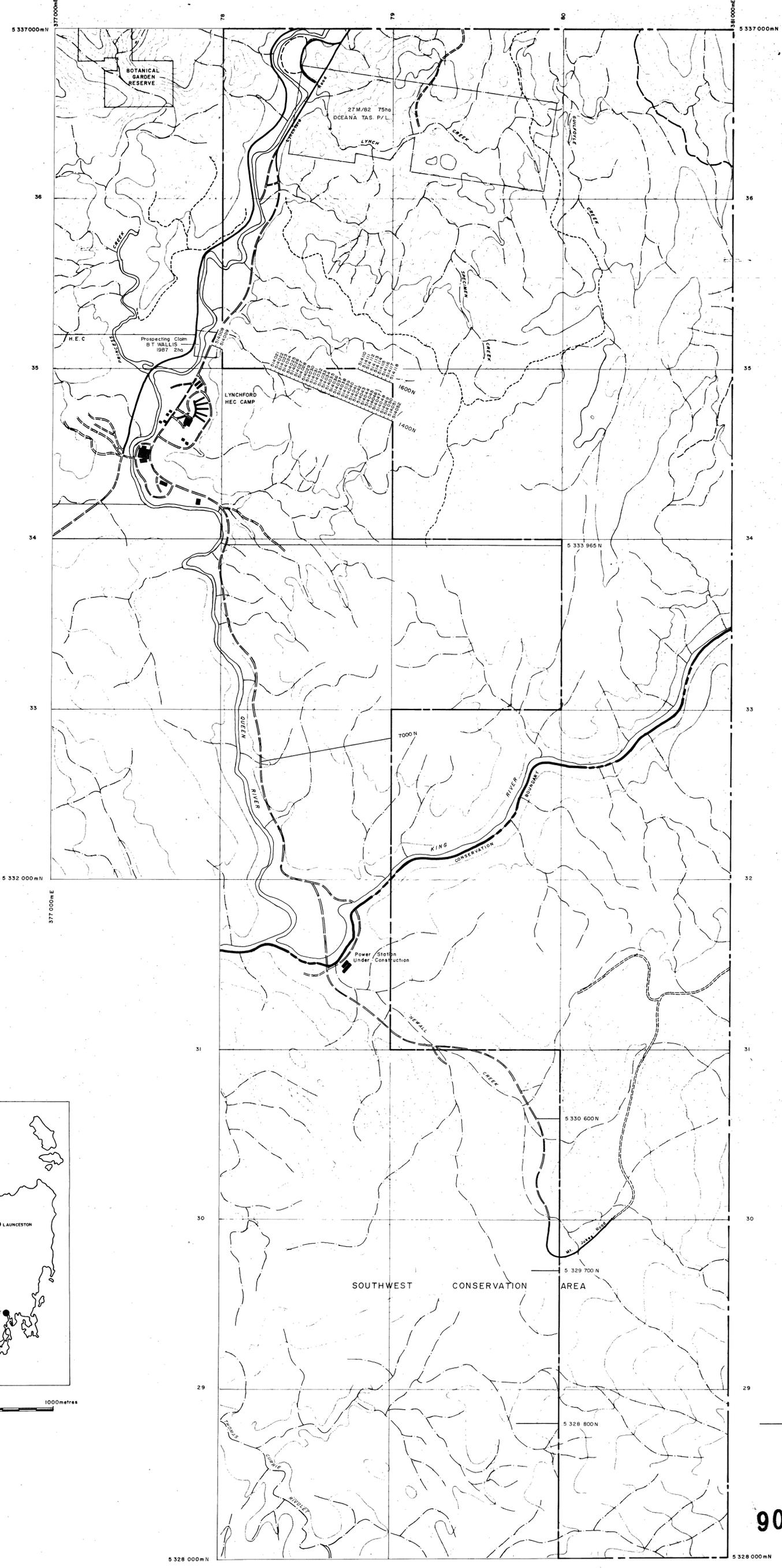
Aberfoyle Resources Limited
EXPLORATION DIVISION

NORTH WEST TASMANIA
LYNCHFORD E.L. 47/83-CRA J.V.
INTERPRETIVE GEOLOGY

REVISIONS		Date	
Rev.	Date	Rev.	Date
01	12/2/90		
02	13/2/90		

Location Code: _____ Scale: 1:10,000 Date: February 1990 Photo No: LYN 38

Compiled: D.J.N.
Drawn: J.M.S.
Traced: J.L.R.
Checked: _____

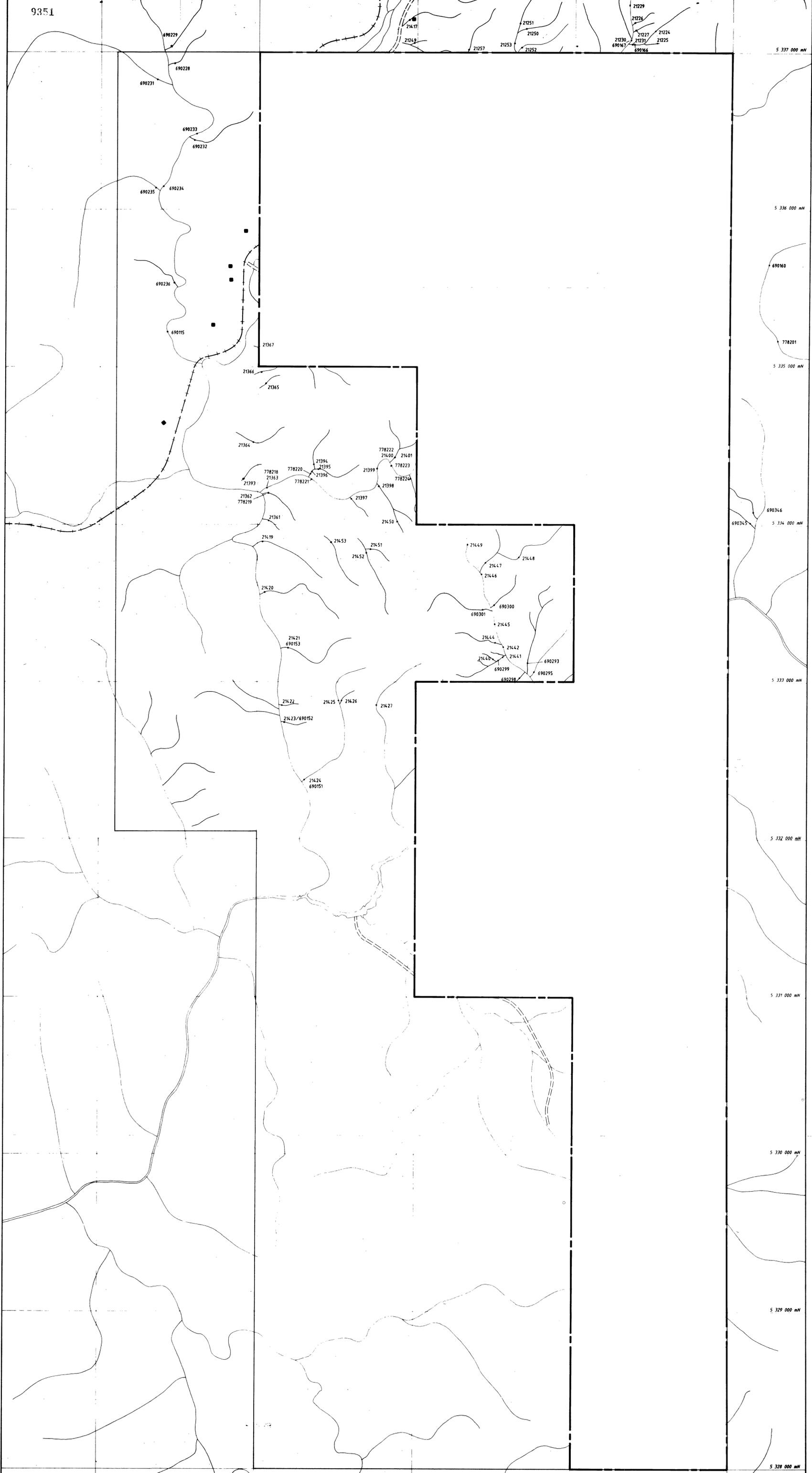


GRIDDING BY
CRA EXPLORATION PTY. LTD. AND
ABERFOYLE RESOURCES LTD.

52411G
90-3086



Aberfoyle Resources Limited																															
EXPLORATION DIVISION																															
NORTH WEST TASMANIA																															
LYNCHFORD E.L. 47/83-CRA J.V.																															
GRIDDING & SOIL SAMPLE LOCATIONS																															
Location Code:		Scale: 1:10,000	Date: FEBRUARY 1990																												
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Checked:																															
Plate No: LYN 40																															



5 337 000 mN
 5 336 000 mN
 5 335 000 mN
 5 334 000 mN
 5 333 000 mN
 5 332 000 mN
 5 331 000 mN
 5 330 000 mN
 5 329 000 mN
 5 328 000 mN

5 cm

524117

KEY
 Pickands Mather Sampling
 690297 (6 Figure Number)
 Revision Goldfields Sampling
 21424 (5 Figure Number)

CRA EXPLORATION PTY. LIMITED	
LYNCHFORD E.L. 47/83	
STREAM SEDIMENT SAMPLE LOCATIONS	
(Previous Explorers)	
REF. SK55 - 5	(8013)
SCALE 1 : 10 000	DRAWN R.T.
AUTHOR JMC	REPORT No. 13722
DATE JULY 1985	PLAN No. TASH 2693

377 000 mE

378 000 mE

379 000 mE

380 000 mE

9350



30-2098

5 cm

524118
CRA EXPLORATION PTY LIMITED

KEY
Cu, Pb, Zn, Au
all values in ppm
(-80 mesh fraction)

FILE: SK55 - 5 (0013)
SCALE: 1 : 10 000
AUTHOR: LMC
DATE: JULY 1985

DRAWN: R.T.
REPORT NO: 13722
PLAN NO: 2694



REFERENCE

- 10/731 Dighem Anomaly and Line / Fiducial No.
- Genie - E.M. Traverses.

Aeromagnetic Features Interpreted from Dighem Enhanced Magnetic Contour Plan.

- Strong Magnetic Response
- Moderate Magnetic Response
- Weak Magnetic Response or inferred continuation of magnetic unit.

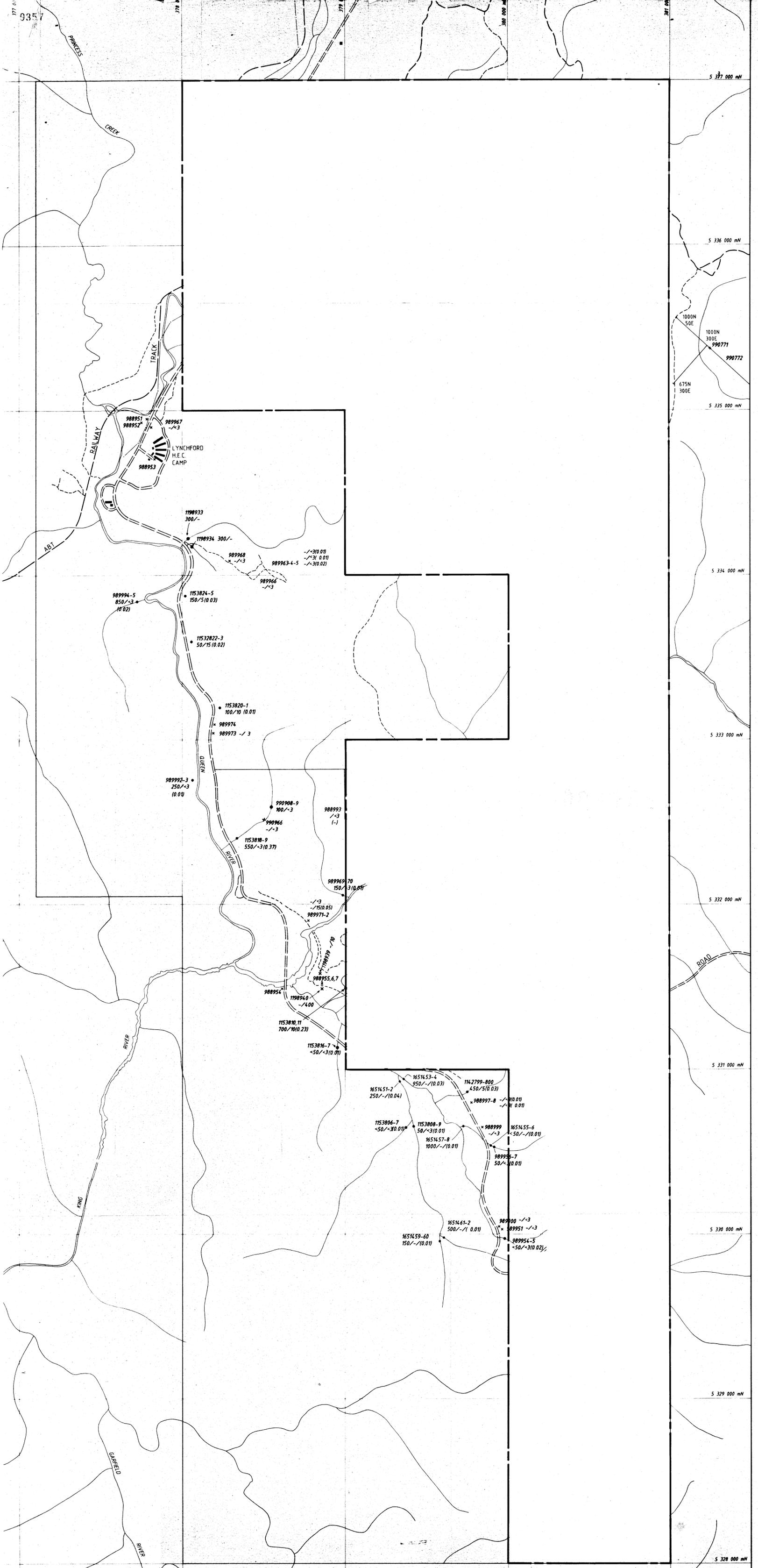
6 cm

524110

CRA EXPLORATION PTY. LIMITED

LYNCHFORD E.L. 47/83
 GEOPHYSICAL COMPILATION SHOWING
 DIGHEM ANOMALIES, GENIE E.M. TRAVERSES
 AND AEROMAGNETIC FEATURES

REF	SK55 - 5	(8073)
SCALE	1 : 10 000	DRAWN R.T.
AUTHOR	T.H.S.	REPORT No. 13722
DATE	9 - 1 - 1986	PLAN No. T.A.S. 2860



KEY

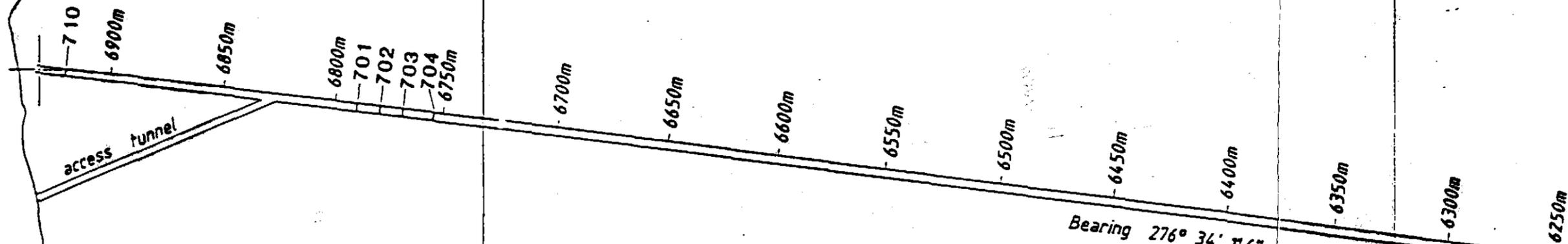
- 989977-8 STREAM SEDIMENT SAMPLE
Au ppt / Au ppb (Au ppm)
CN leach / -80 mesh AAS (-80 mesh fine assay)
- * 989951 ROCK SAMPLE
- 990773 SOIL SAMPLE



524120

CRA EXPLORATION PTY. LIMITED			
LYNCHFORD E.L. 47/83			
CRAE GEOCHEMICAL SAMPLING AND GOLD DRAINAGE GEOCHEMISTRY			
REF	SK55 - 5	(0019)	
SCALE	1 : 10,000	DRAWN	B.T.
AUTHOR	I.M.C. / F.R.F.	REPORT No.	16992
DATE	20 - 1 - 1986	PLAN No.	TASH 2869

KING RIVER

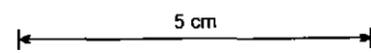


Bearing 276° 34' 11.6"

5 331 600mN

**** NOTE ****

At the time of sampling the power tunnel had been driven to 6600m.
All results in ppm except Fe in %.



Sample No.	Cu	Pb	Zn	Ag	As	Fe%	Bi	Mn	Mo	Au
1198701	15	10	150	1	10	4.05	<5	450	<2	0.02
1198702	60	20	240	1	10	7.05	<5	1350	<2	0.01
1198703	35	25	310	2	16	5.27	<5	6000	<2	0.02
1198704	20	15	70	2	9	5.26	<5	1500	<2	0.01
1198710	10	60	<2	3	16	29.7	<5	320	<2	0.01

379 400mE

CRA EXPLORATION PTY. LIMITED
LYNCHFORD E.L. 47/83
KING RIVER POWER TUNNEL
OUTCROP SAMPLE LOCATIONS
AND RESULTS

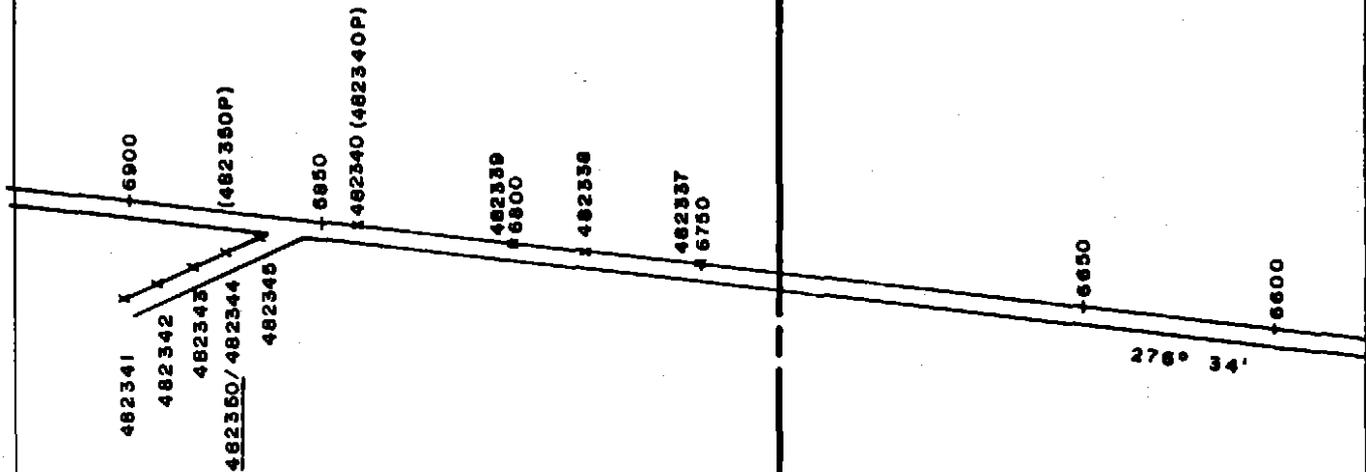
REF.	SK55 - 5	(773 - 803)
SCALE	1 : 2000	DRAWN R.T.
AUTHOR	F.R.F.	REPORT No. 14992
DATE	13 11 - 1987	PLAN No TASH 3573

379 000mE

387 800E

5 332 000N

524122



- x 482312 Rock Chip
- x (482381P) Petrology

E.L.47/83

5 331 600N

5 cm

Aberfoyle Resources Limited
EXPLORATION DIVISION

REVISIONS			
Init.	Date	Init.	Date

NORTH WEST TASMANIA
LYNCHFORD E.L.47/83
KING RIVER POWER SCHEME - Development Tunnel
ROCK CHIP SAMPLE LOCATIONS

Compiled : DJN
Drawn : JLR
Traced : JMS
Checked :
Plate No. : LYN 17

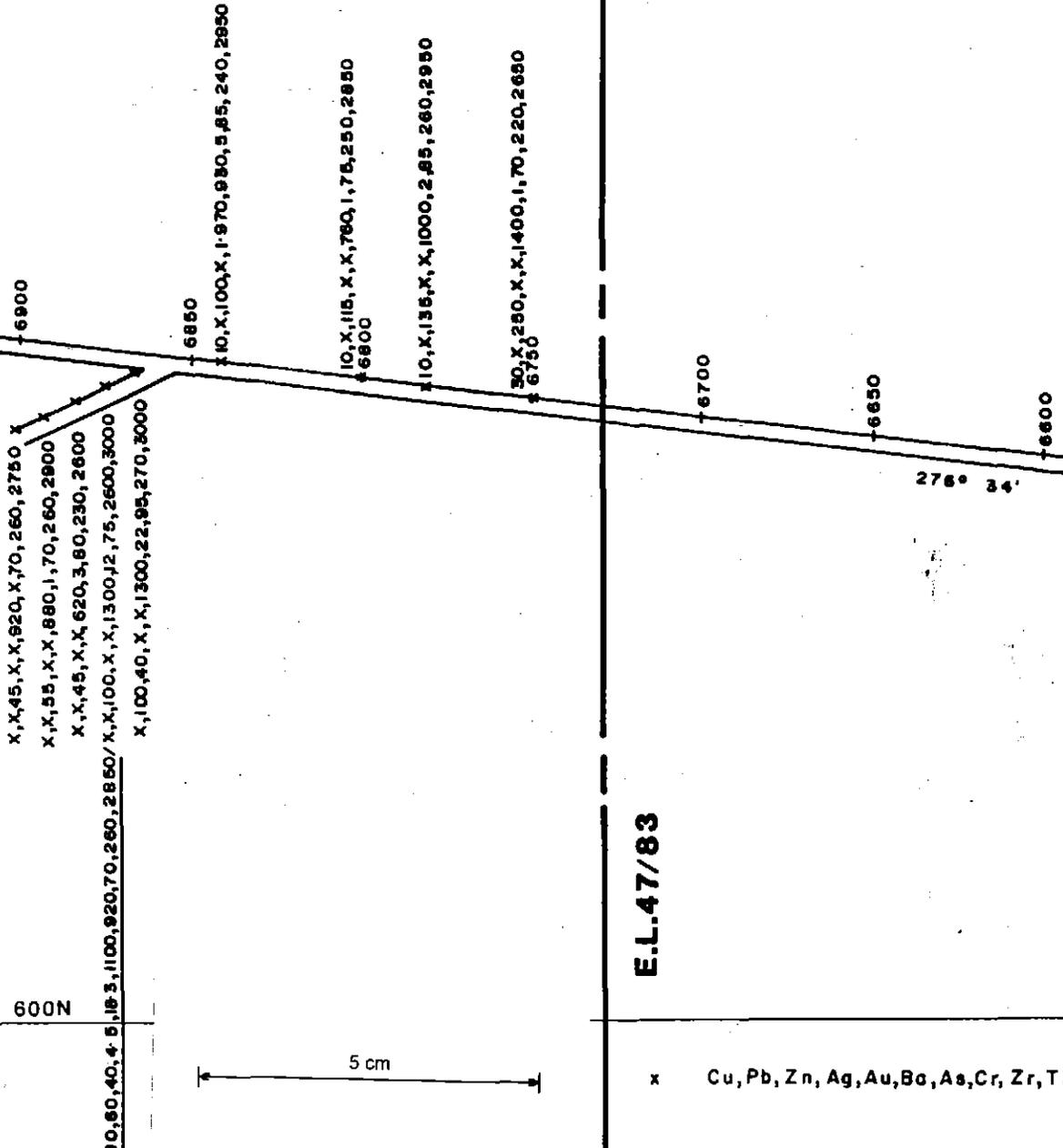
Location Code :

Scale : 1 : 2000

Date : February 1990

5 332 000N

387 800E



5 331 600N

E.L.47/83

x Cu, Pb, Zn, Ag, Au, Ba, As, Cr, Zr, Ti

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EXPLORATION DIVISION

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REVISIONS			
Init.	Date	Init.	Date

NORTH WEST TASMANIA
LYNCHFORD E.L.47/83
KING RIVER POWER SCHEME - Development Tunnel
ROCK CHIP SAMPLE RESULTS

Compiled :	DJN
Drawn :	JLR
Traced :	JMS
Checked :	
Plate No. :	LYN 18

Location Code :

Scale : 1 : 2000

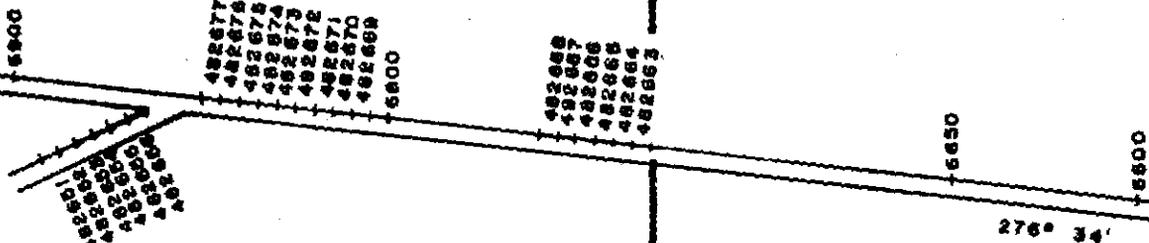
Date : February 1990

1-10-1

378 800E

1 1 1 1

5 332 000N



5 331 600N

E.L.47/83

Aberfoyle Resources Limited
EXPLORATION DIVISION

524124

REVISIONS			
Init.	Date	Init.	Date

NORTH WEST TASMANIA
LYNCHFORD E.L.47/83
KING RIVER POWER SCHEME-Development Tunnel
CHANNEL SAMPLE LOCATIONS

Compiled :	DJN
Drawn :	JLR
Traced :	JMS
Checked :	
Plate No. :	LYN 39

Location Code :

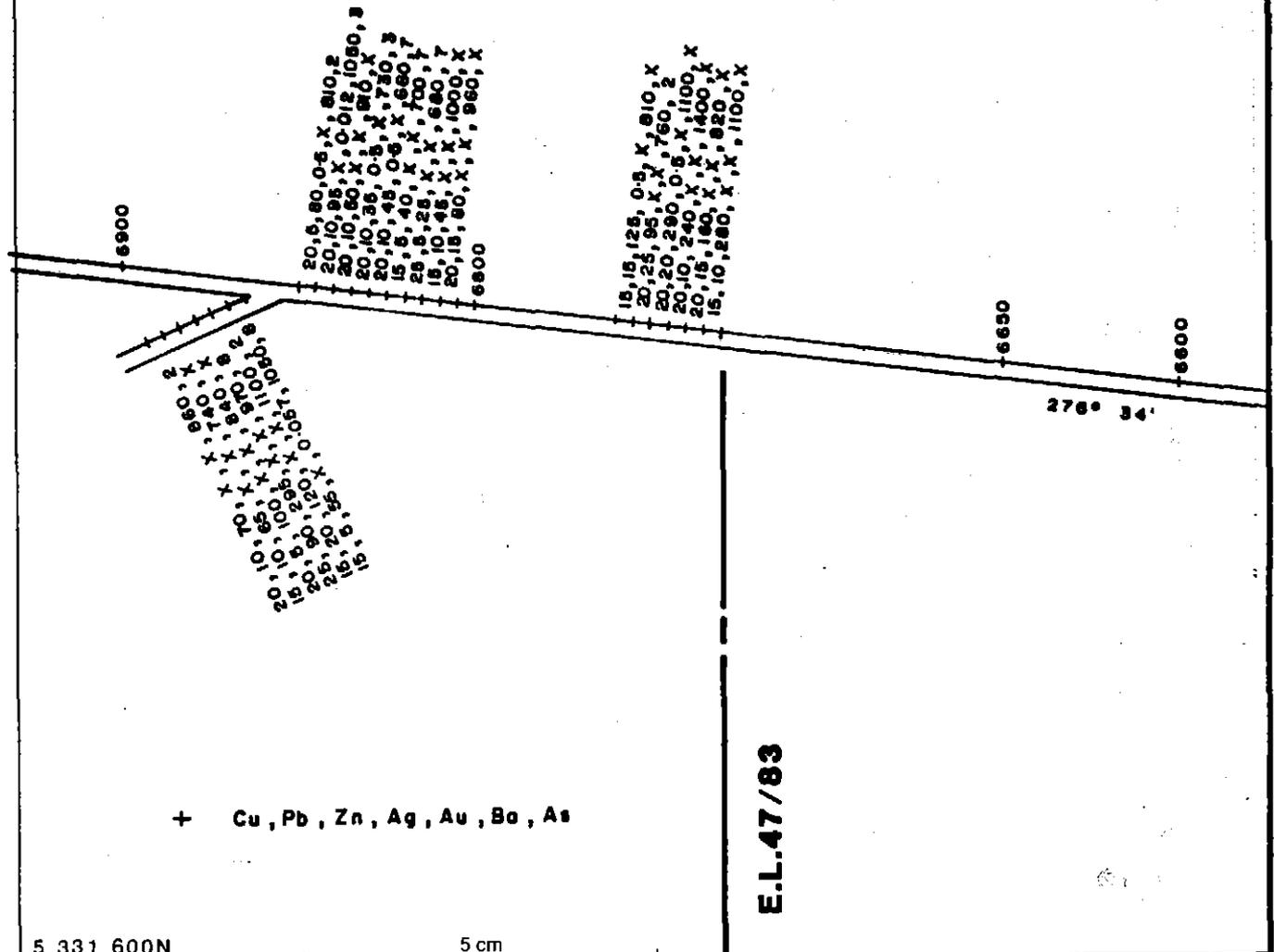
Scale : 1 : 2000

Date : February 1990

Plate No. : LYN 39

378 800E

5 332 000N



Aberfoyle Resources Limited
EXPLORATION DIVISION

524125

REVISIONS			
Init.	Date	Init.	Date

NORTH WEST TASMANIA
LYNCHFORD E.L.47/83
KING RIVER POWER SCHEME - Development Tunnel
CHANNEL SAMPLE RESULTS

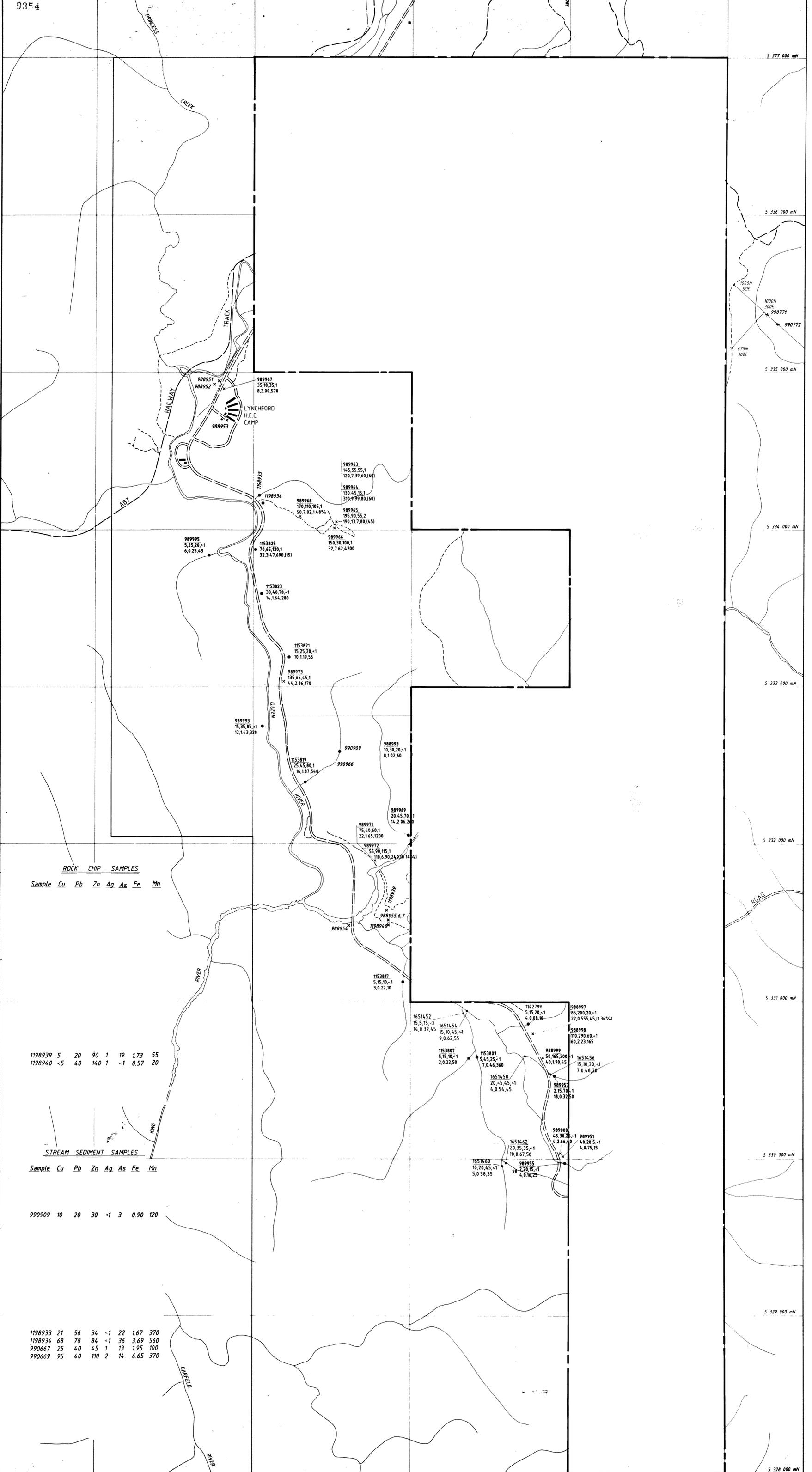
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Traced :	JMS
Checked :	

Location Code :

Scale : 1 : 2000

Date : February 1990

Plate No. : LYN 41



ROCK CHIP SAMPLES

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
1198939	5	20	90	1	19	1.73	55
1198940	5	40	140	1	1	0.57	20

STREAM SEDIMENT SAMPLES

Sample	Cu	Pb	Zn	Ag	As	Fe	Mn
990909	10	20	30	<1	3	0.90	120
1198933	21	56	34	<1	22	167	370
1198934	68	78	84	<1	36	3.69	560
990667	25	40	45	1	13	1.95	100
990669	95	40	110	2	14	6.65	370

KEY
 ● 989953 STREAM SEDIMENT SAMPLE
 × 989951 ROCK SAMPLE
 — ADIT



**** NOTE ****
 All results ppm EXCEPT Fe %
 Cu, Pb, Zn, Ag
 As, Fe, Mn, Cr
 For Au Geochemistry see
 Plan No. TASH 2869

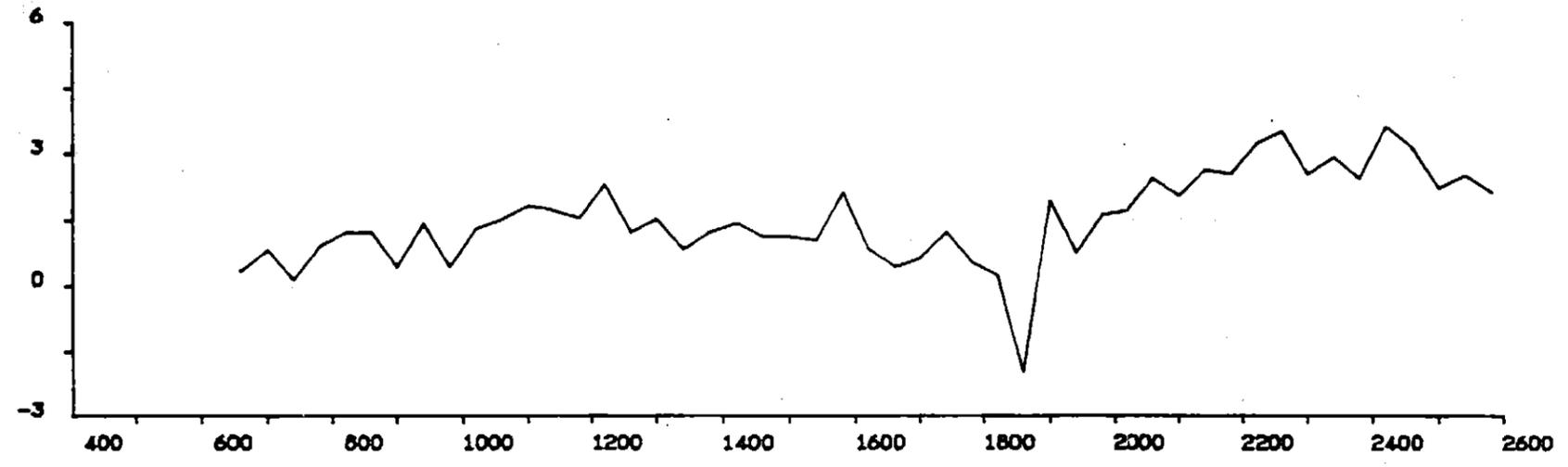
524126

CRA EXPLORATION PTY. LIMITED
 LYNCHFORD E.L. 47/83
 CRAE ROCK
 AND STREAM SEDIMENT
 GEOCHEMISTRY

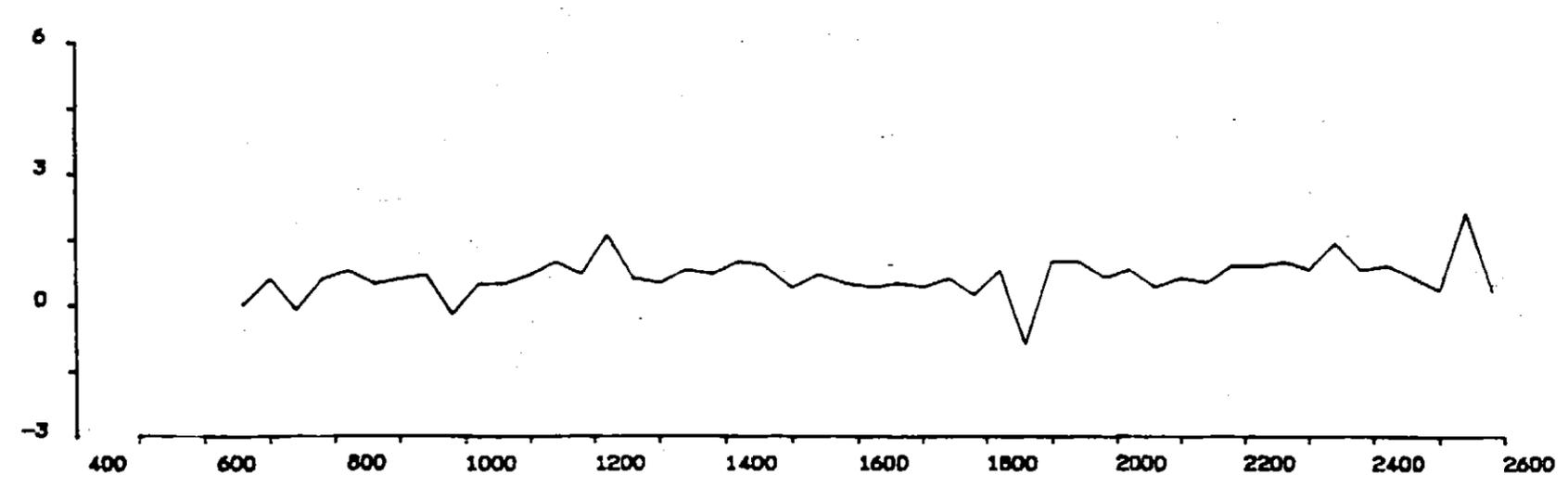
REF	SK55 - 5	(10013)
SCALE	1 : 10 000	DRAWN R.T.
AUTHOR	W.A.S. / F.R.F.	REPORT No. 14992
DATE	18 - 7 - 1986	PLAN No. TASH 3102

3037/112 HZ

LYNCHFORD HEC ROAD



3037/112 HZ



337/112 HZ

5 cm

* N.B. *
100m Separation
Tx in East

CRA EXPLORATION PTY. LIMITED	
LYNCHFORD E.L. 47/83 GENIE PROFILES LYNCHFORD H.E.C. ROAD WEST	
REF. SKSS - 5	(8073)
SCALE 1 : 20000	DRAWN T.v.S.
AUTHOR T.v.S.	REPORT No. 13722
DATE JAN 1986	PLAN No. TASH 2844