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ANNUAL REPORT-DAVIES HILL  
EL 28/95 - WRAY-MCCANN & STRINGER

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**1998/99**

**R WRAY-MCCANN & T STRINGER**

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E.L. 28/95 Annual report 1998/99

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## SUMMARY.

In summarising my activities for the year, in the long term exploration context, the year has been a productive one.

Aside from regular, routine prospecting traverses, on going tenement research and the drilling of Davies Hill No.1, in August 1998, I have mainly focused on improving my own understanding of both the Yolande and Tasmanian aeromagnetics, data bases.

This last activity has led, inevitably, to my reading of the tectonic evolution concepts, explained by David Leaman in his landmark, Finding Cambrian Keys, essay of 1992.

Though I have read and eagerly assessed numerous other Tasmanian geological authors and tectonic conceptualisers, including Johnson, Thureau, Montgomery, Peters, Kaiser, Sticht, Twelvetrees, Reid, Blisset, Solomon, Corbett, Pemberton, Richardson, Reed, (to mention just a few), it is clear to me that Leamans Cambrian Keys essay, was indeed radical in its exquisite simplicity and quite brilliant in its broad scale entirety.

For my mind, it provides the first realistic geologic overview of the Tasmanian landmass, so far conceived, and is undoubtedly, the only tectonic model, that we need to take into the next millennium.

If perchance, the multiply compressed replicated melange, could be validated by some other exploration methodology, other than geophysics, then the implications, for future geophysical targeting success, are excellent to say the least.

Whilst I certainly appreciate the implausibility of an 'amateur', contributing to Tasmanias own geophysics data base, I believe, that by applying the guidelines, as outlined in Leaman 92a and Leaman 95b, I have resolved in the affirmative, the verification of the validity of the 'melange', using relatively simple prospecting methodologies.

To easy Campese.

Further, I am in no doubt that my regional geophysical and prospecting interpretations, once properly evaluated by academic review, will prove the absolute integrity of the replicated melange concept, as it universally applies.

I am well aware that understanding the initial tectonic mechanisms, of the melange is not a task for faint hearted lateral thinkers.

A geoscience professional put it to me that it was not unusual for twenty years to pass before the basic principles, of a geophysical manifesto, such as Leamans Cambrian Keys essay, were first acted on.

I humbly contend that it will not take that long at all, and I cordially invite my learned friends from the MRT, to carefully evaluate these disconcerting claims, in the comfort of my own map rooms, as opposed to the bright city lights of fortress Rosny Park.

If these initial claims are valid, as I contend they are, then the source origins of many well known Tasmanian VHMS exploration enigmas, such as Cygnet,

Frankford, Sheffield, Penguin, Balfour, Scamander, Elliot Bay, etc.; shall all be readily identified in due course.

This will be the case because the replicated melange concept allows even the novice geophysical observer, to properly deduce or delineate, blind Cambrian targets, as well as blind Devonian targets, if they put their minds to the task.

Utilising existing aeromagnetic and seismic technology, I believe a skilful observer/pro prospector, can literally interpret the 'greater' melange, as though reading a three dimensional, vertically integrated, widescreen video cook book.

Skilful being the key word.

I base the validity of these bold assertions, largely on the strength of four years of regional prospecting as well as two years of geophysical evaluation of the land area that encompasses the 66sq kilometres of the Yolande license, including the Davies Hill license.

The observations, discoveries, and interpretations that I have made over this period, are essentially too numerous to include in this report, however, over the year just gone, good progress has been made in relation to the following endeavours, as outlined in brief, and not necessarily in order of importance.

- The identification of numerous regional "indicator trains," where isomorphic alteration, ie. barite, calcite, hematite, pyrite; can be reliably found to outcrop, and, which can be reliably inferred, by magnetic field contour map interpretation, as well as colour drapes.
- Positive identification of the existence of old gold workings, at Diamond Creek, where it crosses the Zeehan Hwy, in the south west corner of the Davies Hill license.
- Compilation of drill hole log data from Penghana No.1 (R.G.C., Vicary 1995), Davies Hill No.1, 1998, Madam Howards No. 1, 2, and 3.(TMD, Groves 1962).
- The delineation on the ground, of a positive/negative anomalous response, recorded by a magnetic susceptibility contrast graph, taken over a north south strike, along the western flank of Davies Hill.
- The creation of a comprehensive S.E. Yolande, Davies Hill and West Sedgewick, 'indicator'base map.
- The successful delineation of the 'wider' Madam Howards barite/hematite occurrences, as well as the identification of over a dozen mineral indicators, that may be discerned by prospecting,
- The creation of Dundas Trough basement profile maps, showing east/west and north/south vertical sections through the Yolande license region.
- The recognition that the surface boundaries of certain distinct magnetic terranes, can be reliably inferred on the ground, both by prospecting, as well as their 'unique'habit of causing repeatable, erroneous, car radio static interference. This static is clearly noticed at several bearings along the Zeehan Highway, between Davies Hill and Queenstown.By cross referencing with magnetic field profile maps, it is possible to define the magnetic source origins, that cause the radio interference, at each of the bearings noted.
- The identification of at least two Cambrian type, blind targets, in the mid southern region of the Davies license, both of which meet the criteria, for target selection, as outlined in Leaman 92a and 95b.

Expenditure 98/99.  
\$13,500

Expenditure 99/2000.  
\$10,000

**Plan of attack.**

More of the same. Perseverance, patience and practical, cost efficient, personal endeavours of the prospecting kind.

Main focus of activities. To complete another drill hole, with a view to following up on the regional aeromagnetics insights acquired by the drilling of Davies Hill No.1 and the insights gained by diligent prospecting, tenement research and geological studies.

The replicated melange. A prospector's opinion.

As a result of my own study of the 'leading edge' work of Tasmanian petroleum geophysicist John Davidson, in relation to his unique concept of globally synchronous compressional pulses, in extensional basin environments; which has been shown to provide persuasive arguments that fully support Leamans replicated melange concept, ie. one won't work without the other; I have come to the obvious conclusion that Davidson's compressional pulse model, could indeed, provide the framework basis, for a 'similar' type, geo-scientific sequence model, to be developed for much older phases of global expansion and compression.

ie. Proterozoic style magmatic phase events.

If the oil exploration industry can readily accept the seismically generated modelling of Davidson, then base metal explorationists, should at least consider, that it might be technically feasible to devise an aeromagnetically 'generated', sequence model, for much older, harder, magmatically diverse, magnetically differentiable and globally similar, Proterozoic strata.

We already know the event time frames of much of the Tasmanian landmass, as well as numerous orogenic phases.

Over the last two decades literally thousands of dating tests have been carried out, on all manner of rocks, found throughout the state.

As it stands, Tasmania's intellectual and raw geological data bases, are considered to be the equal of the finest available, and numerous of our geo-science experts are regarded, world leaders in their own right.

With the advent of new second generation magnetic modeling technique's such as electro aeromagnetics, coupled with lateral thinking and 'applied prospecting' techniques, then the above 'exercise', would (problematically), be made much easier, by a large degree.

Not that I under estimate the tremendous, 'implied' scientific complexities, of such an idea.

Although, to tell the truth, I am of the resolve, that such a magmatic phase geologic sequence model, may well prove to be a much less complex scientific pursuit than might be initially assumed by most professional exploration geophysicists.

My own Yolande aeromagnetic and prospecting, 'interpretations', (1996-99) suggest there are several clearly distinct magnetic terranes, which can be found replicated throughout the larger Yolande license area, and which can be reliably delineated on the ground, by diligent prospecting and mapping, of a wide range of 'indicators'.

These distinct magnetic terranes, also allow the interpreter to very accurately distinguish between andesitic and porphyry basalts, which is handy info to know when siting a drill pad over a presumed Cambrian VHMS target.

As I have already found, Leamans melange concept allows even the novice geophysical interpreter, to apply a series of 'standard' geophysical guidelines, for determining, potential blind Cambrian VHMS targets.

The most critical guideline you need to determine, anywhere in the 'melange', is the inferred depth of the basement 'profile', ie. the crust.

Ideally, in order to more fully understand the concept itself, we need to first simplify the contorted geophysical basement profile of the Tasmanian landmass, in our own minds.

If we can envision a simply constructed, statewide basement profile graph, that looks like the edge of a sheet of ripple iron, then we at least have the makings of a simply explained concept.

It is the 'shoulders' of the ripple iron, where the moneys at.

Leamans melange attests that the basement will be punctuated with a 'statewide' replicated series of deep troughs, gapes and trenches.

The Dundas Trough is but one of these 'inferred' replicated basement structures.

Simply put, the troughs consist of little more than billions of cubic metres of deposited sediments and ejected basaltic flotsam, which have been vertically challenged by a slow process of evolutionary tectonic creep, as well as horizontally corrupted and generically altered, by irregular phases of magmatic activity related to periods of global expansion and compression.

As these 'structures' can only be assessed by applied geophysical scrutiny, then very few people have any awareness of their exploration relevance.

They can be up to 100 kilometres long, 25 kilometres across, and in some places, up to 10 or more kilometres deep.

The melange concept implies that VHMS targets will, necessarily, accumulate in the 'upper' portions, of the shallow margins, or flanks, of the trough structures ie. the shoulders.

As I have discovered, this is absolutely the case.

For instance, it can be shown that virtually every known shale unit and VHMS prospect, in a north/south line between Burns Peak and Mt. Darwin, occurs in a narrow, defineable, 3 to 4 kilometer wide belt, over at least a 50 kilometre strike.

This narrow shale/VHMS belt, lies adjacent to and west of the West Coast Range, and is found, over its total length, along the 'shallow' eastern margins of the Dundas Trough ie. average depth of basement around 3 kilometres.

This narrow belt should not be confused with the felsic phyric volcanics of the MRV.

Along the 'shallow' western margins of the Dundas Trough, it can be shown that a narrow belt of Pb and Zn prospects, limestone and shale units, occurs over a 30 kilometre north/south strike, from south of the Tully River to at least Melba Flats

As both of these parallel, narrow belts, are found to lie in the opposing, east/west shallow basement margins, of the greater Dundas Trough, then the prospecting significance, should be clear to anyone who has taken the opportunity to critically evaluate Leaman (92a and 94b).

IN the context of Leamans melange, it is true to say, that what the novice geophysical prospector 'sees', on the ground, is only a very minor fraction of the true nature of the troughs, (as they are currently understood).

Once we 'remove' the Tertiary cover, as is possible with digital colour imagery, a virtual widescreen, vertically integrated, geologic diorama, opens before our minds eye, that consequently enables the keen eyed interpreter to radically revise his/her appraisal of the 'real' situation underfoot.

I am certainly not, by any means, the first to suggest such ideologically flamboyant notions such as the scrapping of existing geologic cartography.

Although, the sooner it happens, the sooner the 'industry' will get some runs on the board.

Because our existing cartography, no matter how expertly compiled, is simply and ever reliably, misleading its faithful followers, down an expensive garden track.

There is no doubt in my mind that our current maps are based on a proud, 100 year old mindset, of geophysically untested, geologic furphys.

It is also, my 'novices' contention, that the Tasmanian exploration and geoscience fraternities have not yet learnt how to 'tweak the dials', to coin a phrase, of the existing first generation aeromagnetic technology.

I earnestly believe that there is still enormous potential for further exploration advances to be made, utilising existing technology, although, until the 'industry' takes a multi discipline approach to 'understanding' the melange, it will not have a hope in Hades, of properly assessing all the 'implied' benefits, of second generation technology, now in vogue, in some quarters around Tasmania.

From the little I have seen of this new technology, I am convinced that it will soon resolve any lingering doubts about the reality of the melange, by allowing, for the first time, accurate three dimensional models of the basement, to be compiled.

(ABC News, 25/5/99)

Unfortunately, the type of blind Cambrian VHMS targets, that corporate explorers seek, are not generally associated with the existing, deep, Precambrian basement, as 'it' has so far been determined from decades of applied scientific analysis.

These VHMS targets, are normally found (so far), up to several kilometres 'above' the basement, near surface, in what are surmised, as the trough sediments, old basement flotsam and erroneous magmatic debris.

If the new electro magnetic modeling technology does not have the technical precision to differentiate the extremely subtle magnetic nuances of the sediments, then professional geophysical observers, (Leaman included), will still have their work cut out for them, if they think, as I am led to believe, it will help them to precisely delineate, economically viable, greenfields, 'alteration'.

It should be vividly remembered, that first generation interpreters, discovered the Hellyer orebodies, in 1983.

Since then, no further aeromagnetic 'discoveries' have arose, though not for the lack of trying, or money spent.

Even so, the clear inference that can and should be made, is that Tasmanian exploration geologists, post Hellyer, have not been able to interpret the existing technology, as it can be.

Or, as it should be.

It would be easy to explain this situation by drawing the conclusion, that it is not the quality of the science itself, rather it is the quality of the interpreters who practice the science.

Easy, yes, though it does not accurately explain the true reasons behind the lack of success.

The discovery of Hellyer was an exploration anomaly in itself...luck and initiative played major roles in its coming to being.

Many pre-eminent geophysicists and geologists have cast their minds across Tasmanian tectonic concepts since the advent of first generation technology in the late 1950's.

Many hundreds of different observations have been made, suggested, implied or inferred about the evolution and composition of the landmass.

Virtually all of these observations, predate the publication of Leamans Cambrian Keys essay in July 1992, and should, by rights, be consigned to the dustbin of geological historical misnomers.

The few models conceived, post melange, need tossing as well.

Since its publication though, it is safe to say that the replicated melange model, has resolutely failed to stimulate the conscious of the Tasmanian exploration industry physe.

In my own experience, dealing with dozens of geologists over the last seven years, I have yet to hear mention of the topic, even once.

Nor is it discussed in any of the many papers that have been produced by geologists, since, except of course in hard to come by geophysical journals.

If no-one is talking about Tasmanian tectonic concepts, except geophysicists, then what hope, if any, have the exploration geologists got of finding greenfields VHMS?

I believe that open minded, professional collaboration, is the key to successful future exploration in Tasmania, although sadly, it is never likely to be the case because of the intense secrecy, that corporate explorers feel obligated to practise

As well, over these last few years, I have noted in their various geo science papers, a regular, almost total, lack of references, attributed to professionals from other geo sciences.

It is clear to me, an 'unaligned', 'geophysical prospector', that this lack of cross breeding of the geosciences, is a major reason behind the lack of target success post Hellyer.

It would not be too strong a comment to imply the existence of an intellectual rift, that has developed over the last decade between some of the Tasmanian geoscience fraternity's.

As I see it, each side has resolutely stood its ground and defended its own interests, as best as possible, given that neither side has discovered a blind Cambrian target, by whatever means, post Hellyer.

Having stated the above assertions, it should be noted that without the combined work of all the Tasmanian geoscience communities, there is no way the melange could be tested by anyone other than professional geophysicists.

As I have come to realise, it is the intrepid work of the mapmakers, geo-chemists and previous explorers, who have enabled me to discern the real on ground potential, of Leamans melange, in the sublime context, of geophysical targeting of VHMS prospects.

When you take into account that this type of task is reliably considered to be the hardest and most complex geoscience task of them all, then it is very easy to be happy, so far, with just the one Hellyer, in nearly forty years of trying.

It is, as Leaman attests, literally harder than finding a needle in a haystack.

In closing, it is my opinion that with the passing of time and the proper, full assessment of the melange completed, 'we', will find that proverbial needle, and there will be many, many more to come.

That's how I see the wider picture.

Thankyou for your time and many thanks to the staff of the MRT, without whose encouragement, help and patience, none of these, above, observations, would have been possible.

Yours sincerely  
*Rory Wray-McCann*  
Rory Wray-McCann  
30/6/99

## HISTORICAL NOTES/UPDATE E.L. 28/95

It is my belief that the search for the origins of the name behind Davies Hill has come to an end.

I believe there are good reasons to conclude that a Mr. Joseph Davies, the first mine manager of the Tasmania Gold Mine, Beaconsfield 1878-1901, is the mining man honoured with the rare privilege of a berth beside the famous philosophers of the West Coast Range.

Mr. Davies was also the driving force behind the northern financed, Davies Prospecting Association, which was formed to prospect ground to the north of the King River Gold Mine, in the mid 1880's.

This group took up ground at Woody Hill, to the west of the Madam Howards Gold Mine workings, around 1888.

I contend that it is 'likely' that a prospector, or surveyor, employed by the syndicate, submitted Davies name as the title for the most prominent hill in the general locality of their ground.

The special report on the West Coast mining industry, by the Tasmanian mines inspector, in July 1890, gives an excellent description of the geology around the Madam Howards Gold Mine, 3kms to the south of Davies Hill, and makes note of striking correlates, to the Devonian/Silurian sandstones and shales, as found over Cabbage Tree Hill at Beaconsfield, as was the belief held by local prospectors, familiar with the geology of both of these areas.

It is clear that the original government committee that deliberated the title, took very seriously, the task of naming prominent hills flanking the west Coast Range.

No other hills in the West Sedgewick, Mt. Lyell, Yolande or Lynchford license areas are named after individuals, although several creeks and some lakes are.

Gustav Thureau, our illustrious first mines inspector, is the only other person that I know of to share the honour, with the Thureau Hills, that flank the south eastern spurs of Mt. Owen.

There is no doubt that Joseph Davies was a remarkably talented mining geologist and narrow vein mining expert, who earned the right to stand astride the immortal philosophers, (Mts.) Murchison, Geike, Sedgewick, Lyell, Owen, Huxley, Jukes and Darwin.

Davies was a well respected Victorian, deep lead gold mine manager, of some renown, before he took on the six inch wide, Tasmania quartz reef, found at Brandy Creek, by the Dally brothers, in 1877.

Over the next two decades he directly caused the development of the two deepest shafts sunk in Tasmania, the biggest pump house in Australasia and the most profitable gold mine ever to operate in Tasmania.

Its safe to say that he had earned his 'mining stripes', and his reputation as a Tasmanian mining expert has since gone unequalled, to this day.

Davies Hill is certainly a fitting tribute to his memory.

It is surely a pleasant quirk, of Tasmanian gold exploration history, that Davies Hill itself, largely consists of the 'theoretical' hornblendes and shale units, where gold was predicted to be found, near the 146<sup>th</sup> meridian, by the widely "accredited", Reverend Branwhite Clarke, as early as 1852.

Davies would certainly have known of the Reverend Clarkes predictions, and would be glad to know, I'm sure, that the creek which splits his namesake, Diamond

Creek, has a reliably reported history of alluvial gold, recovered in the 1930's to 1940's, from a location just near the base of Davies Hill.

As a prospector himself, he would also no doubt be pleased to learn that iron agglomerate beds can be found throughout the vicinity of these old alluvial workings as well as free pyrite in clay and pyrite in quartz, in relative abundance.

If he were around today, Davies might also be surprised to hear that an ex Victorian, hardrock development miner, holds the ground over Davies Hill.

For the historical record, it is worth pondering that I have worked at Beaconsfield Gold Mine, several times throughout its twenty year development phase.

My paternal great grandfather, was an Indian born goldsmith, who emigrated to the Victorian goldfields in 1860.

He moved to the Ballarat field and lived there for many years trading as a goldsmith.

Given the nature of those times, it is not inconceivable that my own great grandfather, may well even have known of, or perhaps even had dealings with Joseph Davies, himself.

You never know, do you?

588011

ATTENTION : DAVID GREEN  
CHIEF GEOLOGIST  
MRT.

FROM R. WRAYMCCANN

RE : DAVIES HILL NO 1. DATA

DEAR DAVID,

HERE'S THAT INFO AS PROMISED. I HAVE DECIDED TO SEND  
THE ORIGINAL MAPS AS I HAVE DIFFICULTY IN ACCESSING A SUITABLE  
COPIER LARGE ENOUGH. WOULD IT BE POSSIBLE FOR YOU TO RETURN  
THEM, ONCE COPIED?

GRATEFULLY YOURS

Rory

P.S. PLEASE EXCUSE THE  
HANDWRITING, AS MY PRINTER  
IS CURRENTLY DYSFUNCTIONAL.

①

## LOG DATA DAVIES HILL No 1. JULY/AUGUST 1998

LOCATION : N 5344050

E 378500

LENGTH : 150 METRES L

SIZE : NQ 38mm

BEARING : 255° DIP 50° S/WEST :

TARGET : ZEEHAN ROAD SHALE UNIT

REASON : TO GAIN INFORMATION ABOUT THE STRUCTURAL AND MAGNETIC PROPERTIES OF THE SHALE UNIT AND TO TEST FOR AN EXTENSION OF BARITE VEINING, ASSOCIATED WITH THE MADAM HOWARD NORTH BARITE MINE WORKINGS.

SUMMARY : A DIFFICULT HOLE TO DRILL REQUIRING 32 METRES OF CASING AND MUCH SWEARING, OVER A FIFTEEN DAY PERIOD. THE ORIGINAL HOLE FROM HELL.

CONSOLIDATED CORE STARTED TO HAPPEN AFTER 40 METRES.

RECOVERY WAS AROUND 90% FROM THAT POINT, TO ECH.

NO SIGNIFICANT MINERALISATION WAS ENCOUNTERED, ALTHOUGH SLIGHT INDICATORS SUCH AS CALCITE, BARITE, LEAD AND HEMATITE WERE EVIDENT AT SEVERAL INTERVALS IN THE BOTTOM 75 METRES, MOSTLY OCCURRING IN QUARTZ VEINS FROM 1mm TO 25mm W. ∴ PYRITE WAS WIDESPREAD THOUGH RELATIVELY SLIGHT, AND WAS FOUND FROM THE 40 METRE MARK TO ECH.

②

(cont.)

A TOTAL OF SIX SHALE BANDS WERE PENETRATED, THESE BANDS BECAME WIDER AS THE HOLE WENT DEEPER, THE LAST ONE OVER TEN METRES WIDE, TRUE WIDTH. PYRITE WAS FOUND IN ALL THESE BANDS, THOUGH ONLY IN MINOR BLENDS UP TO 5mm ACROSS

THE INTERVENING CORE APPEARS TO BE A FINE GRAINED KERATOPHYRE SOLOMON (1960), GROVES 1962, SIMILAR TO WHAT WAS OBSERVED IN THE MADAM HOWARD SOUTH BARITE WORKINGS, FROM THE CORE OF THREE 150 FT HOLES DRILLED BY THE MINES DEPT. IN 1961.

A NARROW BAND OF BRECCIATED PUMICE/SANDSTONE WITH PYRITE WAS INTERSECTED IN THE UPPER SECTIONS, AROUND THE FIFTY METRE MARK OF THE HOLE.

CORE ASSAY: THIRTY SAMPLES WERE PREPARED FOR ASSAY, TEN FROM THE 50 METRE ZONE, TWENTY FROM 125-150. THE SAMPLES WERE CUT, CRUSHED, PULVERISED AND SENT TO ROXBY, IN S.A., IN OCTOBER LAST YEAR.. WHERE, IT APPEARS THEY HAVE BEEN 'LOST', IN THE SYSTEM, OF WMC'S LABORATORY.

SADLY, I STILL AWAIT THEIR RETURN AND WILL ADVISE FURTHER, WHEN MORE INFO IS SUPPLIED TO ME, BY MY 'MATE' FROM ROXBY!

I DO NOT ANTICIPATE ANY ERRONEOUS ASSAYS ALL THE SAME, NOR DO ANY OF THE FOUR GEOLOGISTS WHO HAVE CHECKED THE CORE.

CORE INTERPRETATION:

THE MAIN LESSON LEARNT FROM THE CORE ITSELF SO FAR, IS THE SIMPLE RECOGNITION, THAT EVEN UNMINERALISED GROUND CAN GIVE YOU GREAT AMOUNTS OF CRITICALLY IMPORTANT MAGNETIC INFORMATION..

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IN SO FAR AS THE DAVIES HILL / MADAM HOWARDS EXPLORATION HISTORY; SINCE 1962, LESS THAN SEVEN HUNDRED METRES OF EXPLORATION DRILLING HAS BEEN CARRIED OUT IN THE VICINITY OF THESE AREAS.

ONLY FIVE HOLES HAVE BEEN PUT DOWN, AT THREE SEPERATE LOCATIONS, IN THREE AREAS WITH CONTRASTING MAGNETIC VALUES WITHIN <sup>AN</sup> AREA OF APPROX 1.5 SQ KILOMETRES TO THE SOUTH AND EAST OF THE SOUTHERN BOUNDARY OF THE E.L, ALL WITHIN 800 METRES OF D/HNO 1.

I HAVE CAREFULLY PROSPECTED ALL OUTCROPS FOUND OVER THESE LOCATIONS AND OTHERS NEARBY, AND HAVE CONCLUDED THAT THE LOG DATA OF THESE HOLES, IS VERY VERY IMPORTANT, IN THAT IT ALLOWS AN ACCURATE ANALYSIS OF THE YOLANDE SEQUENCE SEDIMENTS AS WELL AS THE REGIONAL PORPHYRIES, AT A REASONABLE DEPTH, OVER A SMALL AREA.

THIS HAS NOT BEEN ACHIEVABLE TO DATE, AT LEAST IN THE YOLANDE LICENSE EXPLORATION AREA CONTEXT.

WHILST THE YOLANDE SEQUENCE SEDIMENTS ARE ESSENTIALLY NON-MAGNETIC THEY CAN BE DIFFERENTIATED AND CATEGORISED AS PROSPECTIVE & NON-PROSPECTIVE, AS CAN ALSO THE ANDESITIC & HORNBLLENDE PORPHYRIES.

WHEN I FIRST REALISED THIS, I BEGAN TESTING AREAS OF MAGNETIC 'INTEREST', TO SEARCH FOR SIGNS OF MINERAL INDICATORS. THESE INDICATORS INCLUDE. PYRITE IN QUARTZ, ACID LEACHING, BIVLITE, FERRUGINOUS AGGLOMERATE, HEMATITE ALTERATION, GARNET SPECKLES IN KERATOPHYRE, ALLUVIAL GOLD.

IT APPEARS THAT ALL OF THE ABOVE INDICATORS WILL ONLY BE FOUND <sup>ROUGHLY</sup> OVER <sup>(GROUND)</sup> THAT EXHIBITS VERY LOW MAGNETIC VALUES, IN A NARROW RANGE, BETWEEN 61.900 - 62.000. INDICATORS ARE NOT PRESENT (ON THE GROUND AT LEAST) IN VALUES HIGHER OR LOWER THAN THOSE ABOVE.

HORNBLLENDES, ANDESITES AND CRYSTAL LITHIC TUFFS HAVE VALUES RANGING FROM 62.030 to 62.400

IT IS THE NARROW .030 GAP BETWEEN THE LOWS & HIGHS, WHERE PROBLEMATIC VHMS INTERPRETATIONS CAN BE DEDUCED.

INVARIABLY, THESE VALUES ARE GENERALLY FOUND TO OCCUR OVER CONTACT

④

MARGIN BOUNDARIES OF MAGNETICALLY INFERRRED (IMPLIED) / DEFINED? OPPOSING STRATAS.

AS A GENERAL RULE, IT CAN BE IMPLIED THAT, IN THE YOLANDE LICENSE AT LEAST; HIGHLY MAGNETIC VALUES SHOULD BE GIVEN A WIDE BERTH, /

IF WE TAKE THIS ABOVE ASSERTION IN THE GREATER CONTEXT OF THE REPLICATED COMPRESSED MELANGE (THE WIDER PICTURE) THEM, HORNBLENDES & ANDESITE OUTCROPS, WHEREVER THEY OCCUR IN TASMANIA, SHOULD BE CONSIDERED, REGIONALLY PROSPECTIVE, FOR VHMS ALTERATION. ONLY, I STRESS, BECAUSE THEY WILL BE ASSOCIATED, INEVITABLY, ... WITH NON MAGNETIC SHALES AND EQUIVALENTS; THAT ARE EXPOSED / OUTCROP, ONLY, BECAUSE THEY OCCUR, OVER THE 'HIGHER' SHOULDERS, OF THE BASEMENT PROFILE. IE THE EDGES OF THE TROUGHS.

THE FRUITS OF MY OWN YOLANDE GEOPHYSICAL & PROSPECTING ENDEAVOURS IMPLY, I BELIEVE, A WHOLE RANGE OF CONTEMPORARY TASMANIAN EXPLORATION SOLUTIONS THAT DEMAND, OF COURSE, RESOLUTION & EXPERT ACADEMIC REVIEW.

AS A NON PROFESSIONAL, TOTALLY UNACCREDITED, LAYMAN PROSPECTOR OF NO RENOWN, MY INSIGHTS ARE AWAITING EXPLOITATION.

I BELIEVE SINCERELY THAT I HAVE BEEN NO MORE THAN A DOWNSTREAM PROCESSOR OF THE EARNEST DELIBERATIONS OF DR. DAVID LEAMAN RE CAMBRIAN KEYS (92)

I HAVE MERELY DEVOTED THOUSANDS OF HOURS OF MY OWN TIME; EVENTUALLY COMING TO THE CONCLUSION, THAT, AS FAR AS THE YOLANDE LICENSE GOES, DAVID LEAMAN WAS ABSOLUTELY CORRECT.

I DO NOT UNDERESTIMATE THE 'IMPLIED' VALUE OF MY CONTRIBUTIONS TO THE ONGROUND UNDERSTANDING OF LEAMANS LANDMARK TECTONIC TREATISE.

IF MY OWN ANALYSES, ARE, INDEED OVER INTREPRETED BY MYSELF, THEN, I SUPPOSE ITS A CASE OF NOTHING VENTURED NOTHING GAINED.

I DONT HAVE A PERSONAL PROFESSIONAL GEOLOGICAL REPUTATION TO

5

PROTECT, NOR HIDE BEHIND. EITHER ACADEMIC OR CORPORATE.

SO I CAN HANDLE SCIENTIFIC ANNIHILATION OF MY OWN AEROMAGNETIC ANALYSES IF & WHEN IT OCCURS?

HAVING SAID THAT, IF PER CHANCE, MY ASSERTIONS ARE 'VERIFIED', THEN I HUMBLLY CONTEND, IN WRITING, THAT THE IMPLICATIONS FOR TASMANIAN EXPLORATIONS ARE PROFOUND.. THAT THE ONLY WORD SUITABLE.

IT WILL, EVENTUALLY, LEAD TO AN ONGOING SUCCESSION OF IMPORTANT VHMS TARGETS DISCOVERED THROUGHOUT NOT JUST TASMANIA, BUT OVER THE ENTIRE PLANET.

BECAUSE, IN THE UNCOMPLICATED WORLD OF LEAMANS COMPRESSED MELANGE, RESIDUAL MAGNETIC VALUES, AS FOUND IN THE YOLANDIC AREA OF THE FABLED MRV, ARE REPLICATED THROUGHOUT TASMANIA ITSELF, AND INDEED THE ENTIRE WORLD, WHERE SIMILAR MINERAL PROVINCES OCCUR, I.E. SIMILAR AGE/ERAS. SUB SEA EXTENSIONAL BASIN LITHOLOGICS/ENVIRONMENTS (CALL THEM WHAT YOU LIKE!) ARE AS COMMON THROUGHOUT THE GLOBE AS MAJOR VHMS DEPOSITS.

THERE ARE MANY MORE GEOPHYSICAL DISCUSSION POINTS THAT I WOULD LIKE TO RAISE WITH THE MRT, IN RELATION TO OUR CURRENT UNDERSTANDING OF THE MAGNETIC (RESIDUAL!) VALUES OF THE MRV SEDIMENTS, AND I WELCOME THE EXPERT COMMENT AND EVALUATION OF THE ABOVE ASSERTIONS, BY THE MRT.

AS I HAVE SAID PREVIOUSLY, COLLABORATION IS THE KEY TO EXPLORATION SUCCESS IN TASMANIA. IF I CAN BE OF HELP IN ANY WAY TO THE MRT IN RELATION TO THE ABOVE, THEN I'M MORE THAN HAPPY TO OBLIGE.

IN CLOSING THIS EXTENDED DRILL LOG SUMMARY, I PREDICT THAT OVER THE FULLNESS OF TIME, DAVID LEAMANS CAMBRIAN KEYS ESSAY WILL COME TO BE REGARDED AS THE FINEST CONTRIBUTION TO TASMANIAN & WORLD 'EXPLORATION', OF THE MILLENIUM.

YOURS SINCERELY  
 Rocky Wray M<sup>C</sup>ANN

⑥

- MAP ① S/EAST YOLANDE/DAVIES HILL/WEST  
SEDGWICK INDICATOR BASE MAP.
- ② DAVIES HILL NO 1 VERTICAL CROSS SECTION
- ③ BASEMENT PROFILE EAST/WEST CROSS SECTION  
SOUTH YOLANDE GRID 5341000MN.
- ④ TUFF/MAGNETIC PROFILE NORTH/SOUTH CROSS SECTION  
WEST YOLANDE GRID 373500ME
- ⑤ VERTICAL CROSS SECTION YOLANDE RIVER/MADAM HAWAI  
HELICOPTER FLIGHT LINE N5344000 MN  
377000ME - 378000  
ADAPTED FROM 2D LINE MODEL LEAMAN GEOPHYSICS JULY 93  
YOLANDE REVIEW
- ⑥ VERTICAL CROSS SECTION INTERPRETATION OF  
MAGNETIC VALUES/IMPLIED STRATIGRAPHY.  
DAVIES HILL SOUTH. 378 ME - 379 ME

The year of the big bang.

Though it is not widely known, there has come to light a solid body of evidence that largely confirms the seventy year old astrophysics theory, of the epoch event of our time, the big bang.

Breakthrough conceptual developments in the relatively new earthscience, of applied particle perception physics, have now enabled the initial epoch, to be laterally defined, with a precise focus and wide angle clarity of universal perspective, previously not attainable.

As it now stands, the new evidence is clearly weighty, and withstands peer attack.

It is true to say, that the big bang exists.

The new particle perception developments, have even led to the precise delineation of the cosmological co-ordinates and the 'real time dating, of the initial epoch, as, when and where it occurred.

Fortunately, unlike most theoretical astrophysic observations, the new concept is crystal clear, and can be readily interpreted by the layman astronomer with the simple aid of a laymans vision of a deep space perspective.

Thus focused, the universal earthbound viewer, reliably observes physical evidence of black holes, supernovas, heavy stars, nebulae, super clusters, quarks, quasars, paralell universes, spiral galaxies, proto galaxies, cosmic strings, wrinkles in time and other, undeniably concrete evidence, of the origin of time and the big bang.

As it happened.

Late in the second millenium, A.D..

In Western Tasmania, at a bearing N5344000, E378500.

In the year 1998.

The year of the big bang.

TO THE STAFF OF THE  
MRT,  
COME ON OVER WEST  
AND SEE FOR YOURSELF,

BEST REGARDS

Ron J

## TO HELL AND BACK

Mudstone roadheading ain't every tunnellers cup of tea,  
given an option most would sooner chew a leg off at the knee,  
clearly dark, deadly, dirty with not a lot of dough,  
in any native tongue its a bastard way to go.

Though rare few practice the mud suckers trade,  
not even a few ever make the grade,  
'cos good men are hard to come by in a drive,  
that could bury a shift alive.

So for new chums who awake to a sedimentary wall,  
here's the drift on grit and gaul,  
they're what a muddie packs in his crib,  
for fear of being marked a tunnelling squib.

You can tell a muddie who knows his faces,  
he wears the steely smile of madmen from all races,  
you'll hear him first barking orders,  
then catch him up to his knees in muddy waters.

He'll learn you how to read ground, support a drive,  
give you a few tips on how to survive,  
cock your ears as many a muddie has broken down and cried,  
by the side of a gun just accidentally died.

He'll shout, "earn respect from endeavour observed,  
pull your head in and don't be at all reserved,  
it takes sweat and passion to be a muddy wizard,  
you won't get on belting your lizard.

Here me now , get my drift,  
look out for every man on every shift,  
then learn to cut ground with artistic intent,  
never become known as a surveyors lament.

Get a grip on fear its part of the turf,  
a natural element of moving earth,  
pointedly shut up, listen and learn,  
when settin' and t'mbrin,  
don't forget to take your turn.

Learn all you can about subterranean cavities,  
then just watch out for terribly bad gravity,  
look after your mates they're men of the earth,  
it's up to you to prove your worth.

Never walk tall under a working belt,  
big floaters bounce and leave an indelible welt,  
at all hours be swift of feet,  
more so under wet shotcrete.

Take the tip never go near revolving heads,  
one wrong move and you'll be ripped to shreds,  
duck your head, take the flack,  
learn to dodge red hot shrapnel flack.

Be quick when changing tungsten picks,  
steer clear of deadly siltstone slicks,  
remember your part of a wordly pack,  
look after the steerer, watch his back.

For smokin willy willys, demand a mask,  
de riguer for black lung, hacks and rasps,  
wear the full metal jacket as a matter of course,  
beats a life of deaf and blind remorse.

Work hard, fast, earn your pay,  
spend it all before you're buried in clay,  
never miss a shift, never be late,  
turn up pissed an you're out the gate.

Accept as bastard muddie heritage,  
long hours, big tax and all the corporate negatives,  
keep a sharp eye for crystal trinkets and toys,  
if you come onto any fossils, giv us a hoy.

Generally up the pace, get your arse into gear,  
learn to run and laugh without fear,  
nor care a lot for pecking order's present or past,  
as a matter of fact engineer's come last.

Carving mud is no mean feat,  
it's near as dangerous a woman on heat,  
no sense whining about the noise and the muck,  
'tell the truth, no one gives a fuck.

Mudstone drifts ain't much to savour,  
though you'll be doing some banker a helluva favour,  
so get out of the way, you're blocking the track,  
don't wanna hear no more of your dogbreath crap.

Do as you're told, go get the pump,  
drag it chest high to the middle of the sump,  
I need muddies with heart and soul,  
you've got the rythm of a tired old moll.

Given sweat and time you'll be mud to the bone,  
a man with a demeanour drier than bluestone,  
so pick your pace up or this whip will crack,  
'cos we're cutting a track to hell and back."

Rory Wray-McCann 5/98

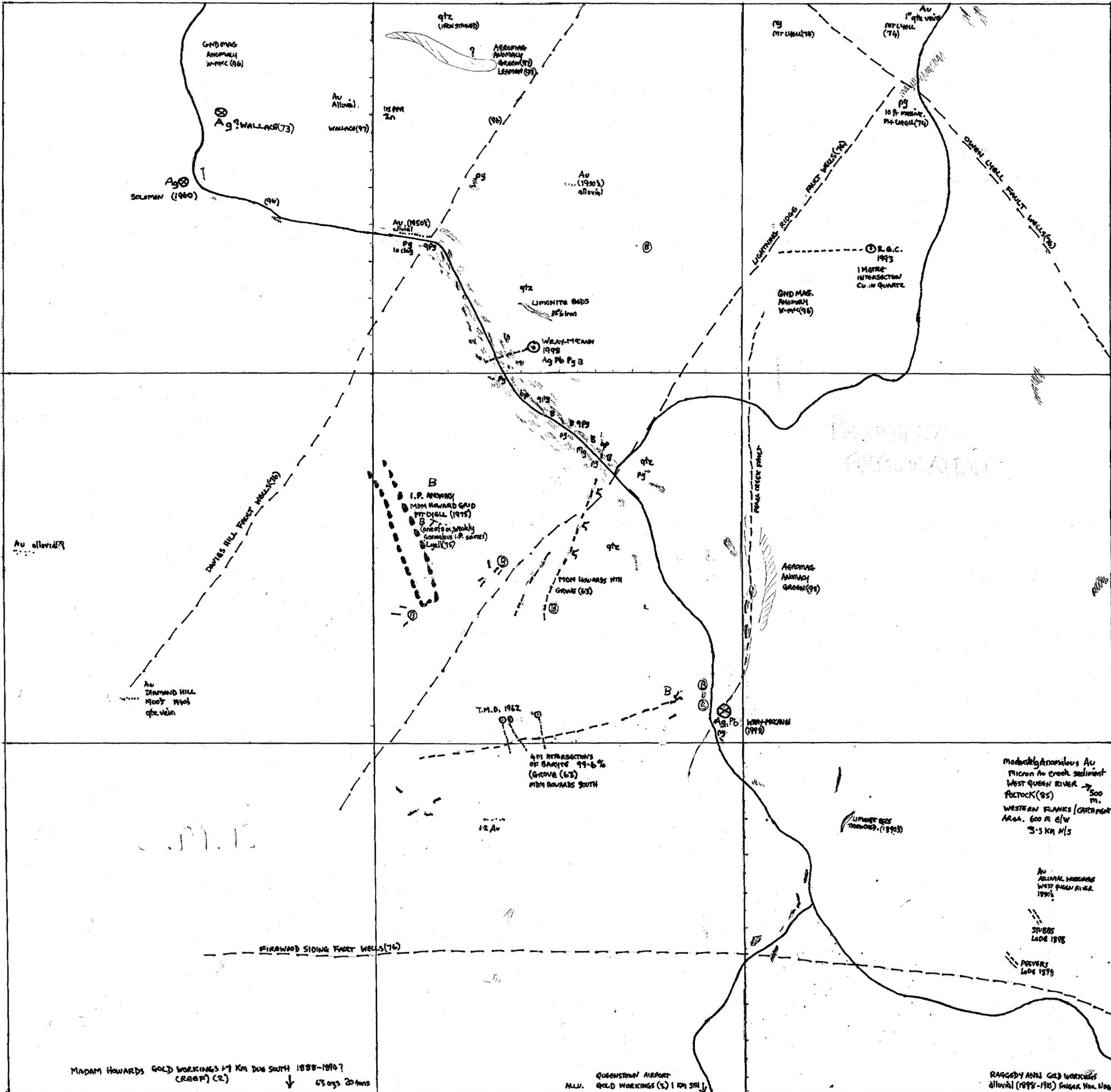
MAP 1

MAP 1

588022

N 5344000

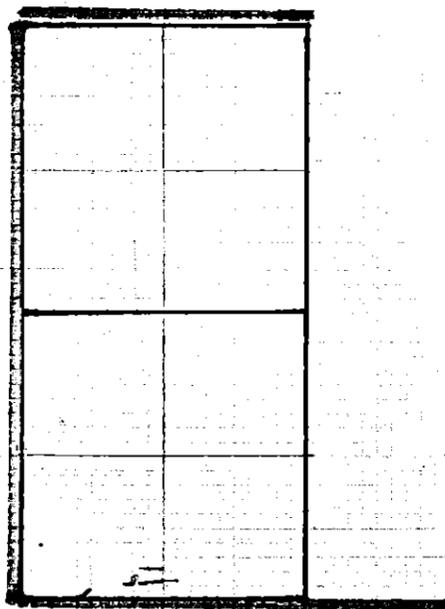
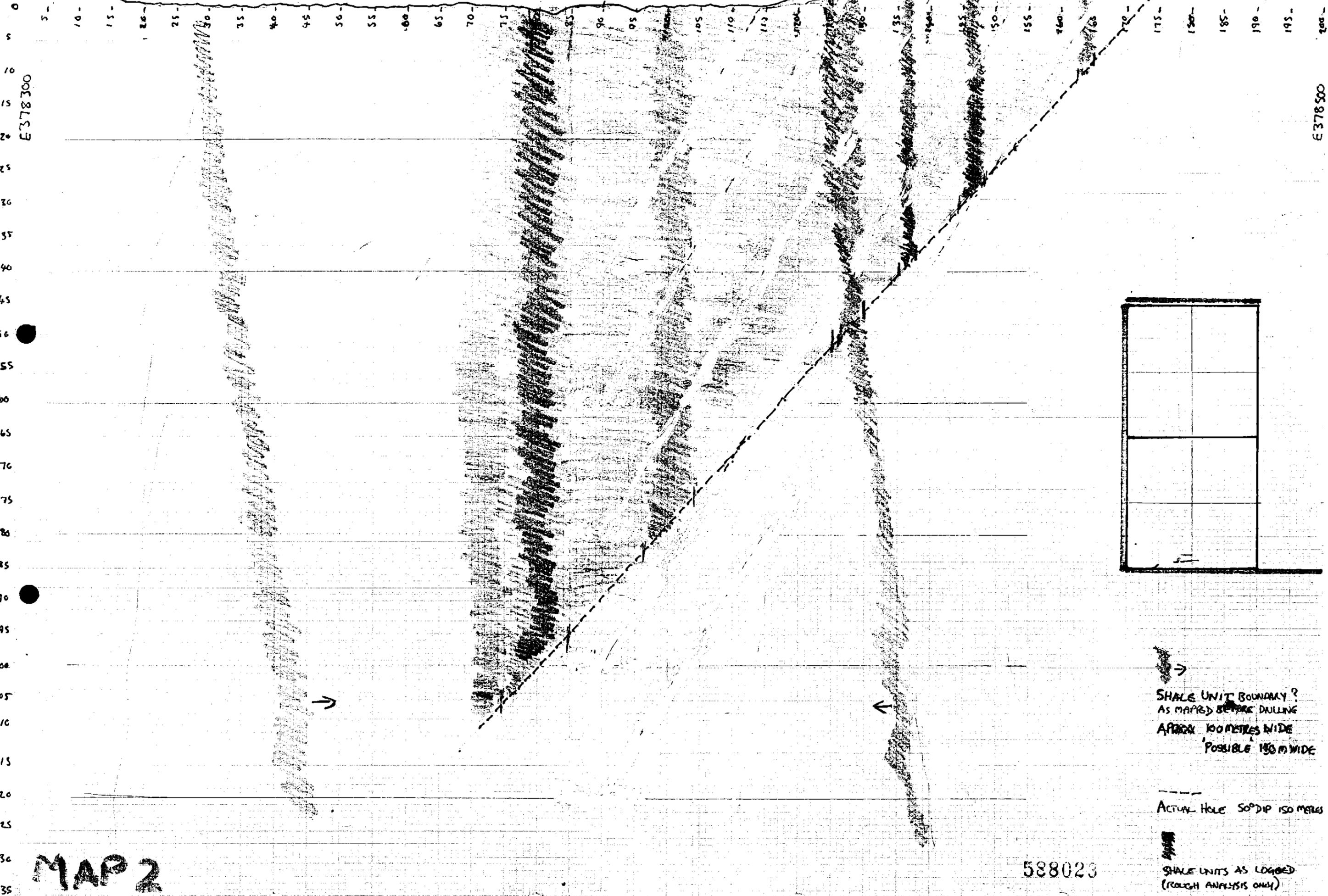
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- SHALES
- LIMONITE BEDS
- STAINING
- B DRIFTE OUTCROP
- GALENA OUTCROP
- ALLUVIAL GOLD (HISTORICAL)
- P PYRITE IN SHALE
- QP QUARTZ IN QUARTZ
- OLD WORKINGS (LADG)
- bp PYRITE IN BASALT
- GROUND MAGNETIC ANOMALY VALUES
- DRILL HOLE
- QUARTZ BODIES

All information/sites/position of faults etc is approx only & should be interpreted as such.

ZEEHAN HWY



→  
SHALE UNIT BOUNDARY?  
AS MAPPED BEFORE DRILLING  
APPROX 100 METRES WIDE  
POSSIBLE 150 M WIDE

-----  
ACTUAL HOLE 50° DIP 150 METRES

SHALE UNITS AS LOGGED  
(ROUGH ANALYSIS ONLY)

▲ SANDSTONE      ■ SILTSTONE

MAP 2

E 378 300

E 378 500



VERTICAL

1KM

2KM

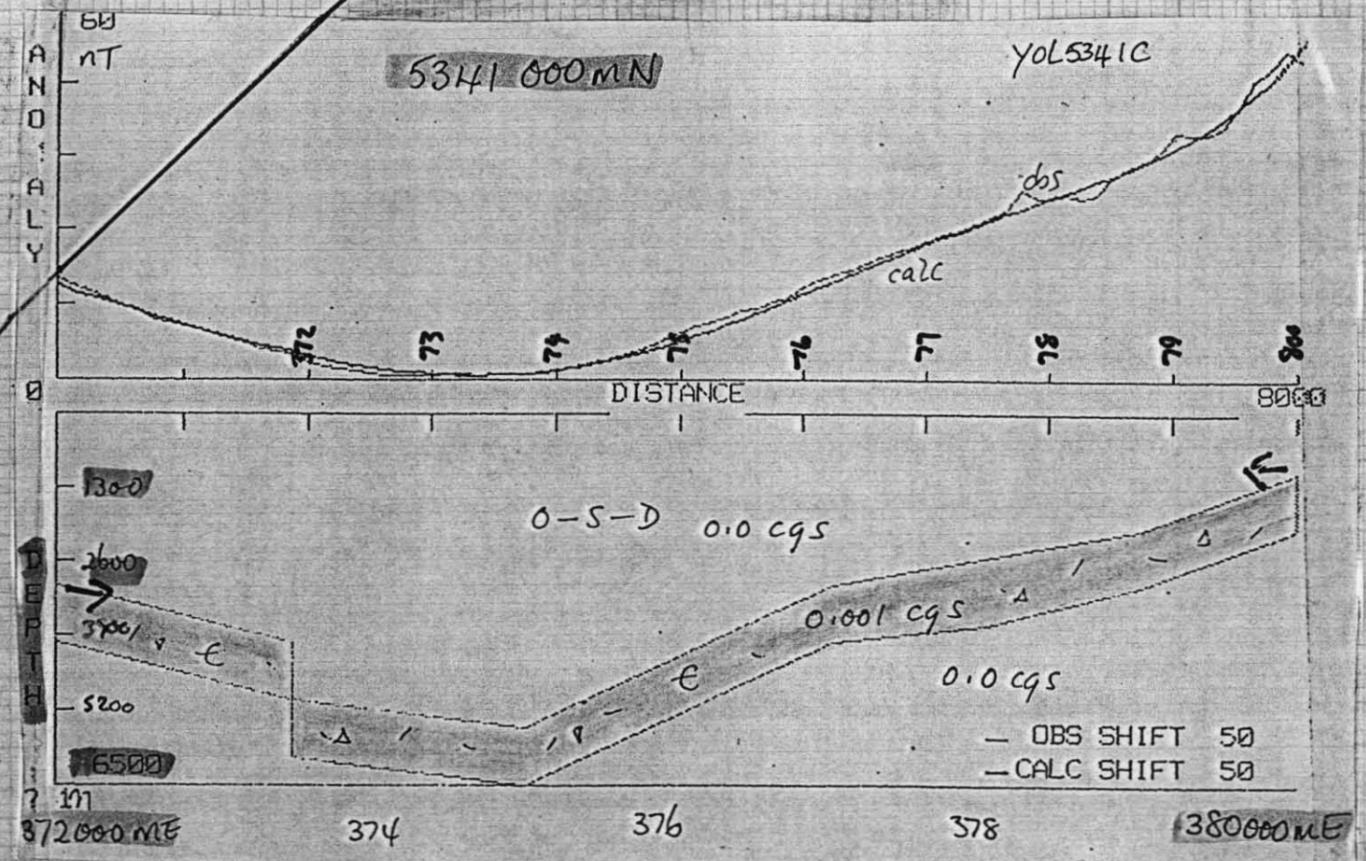
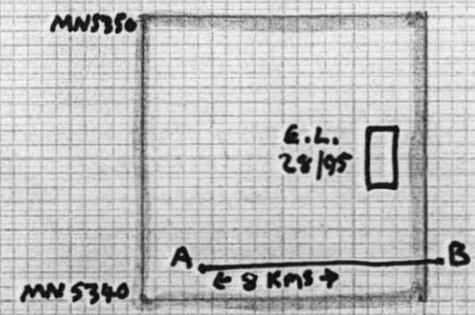
3KM

4KM

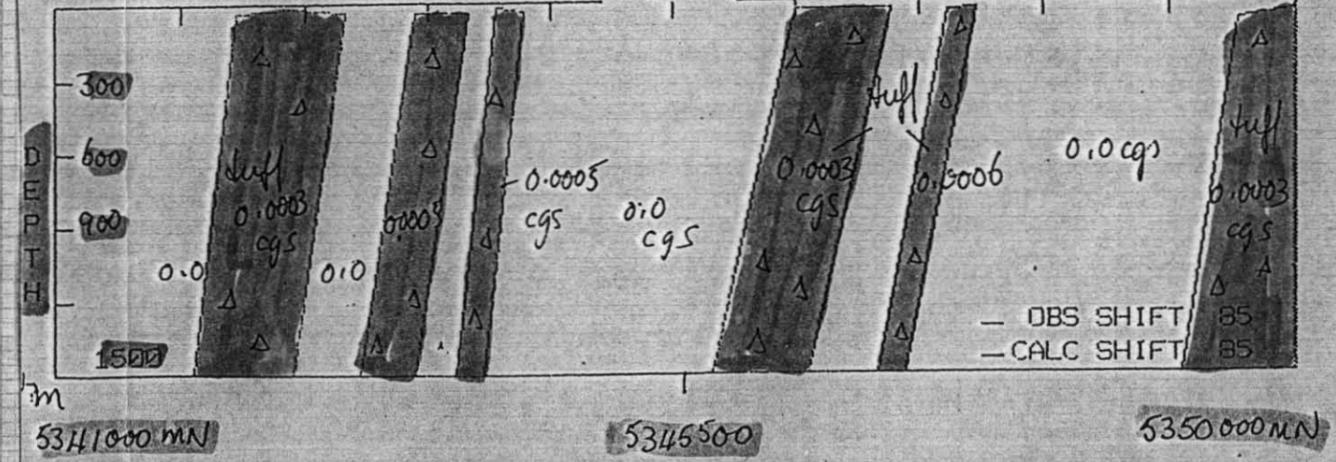
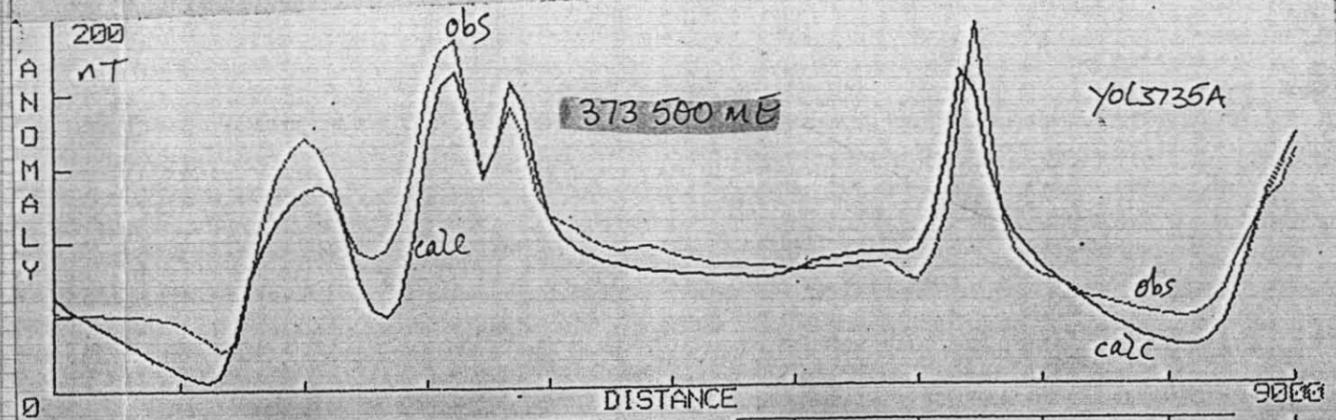
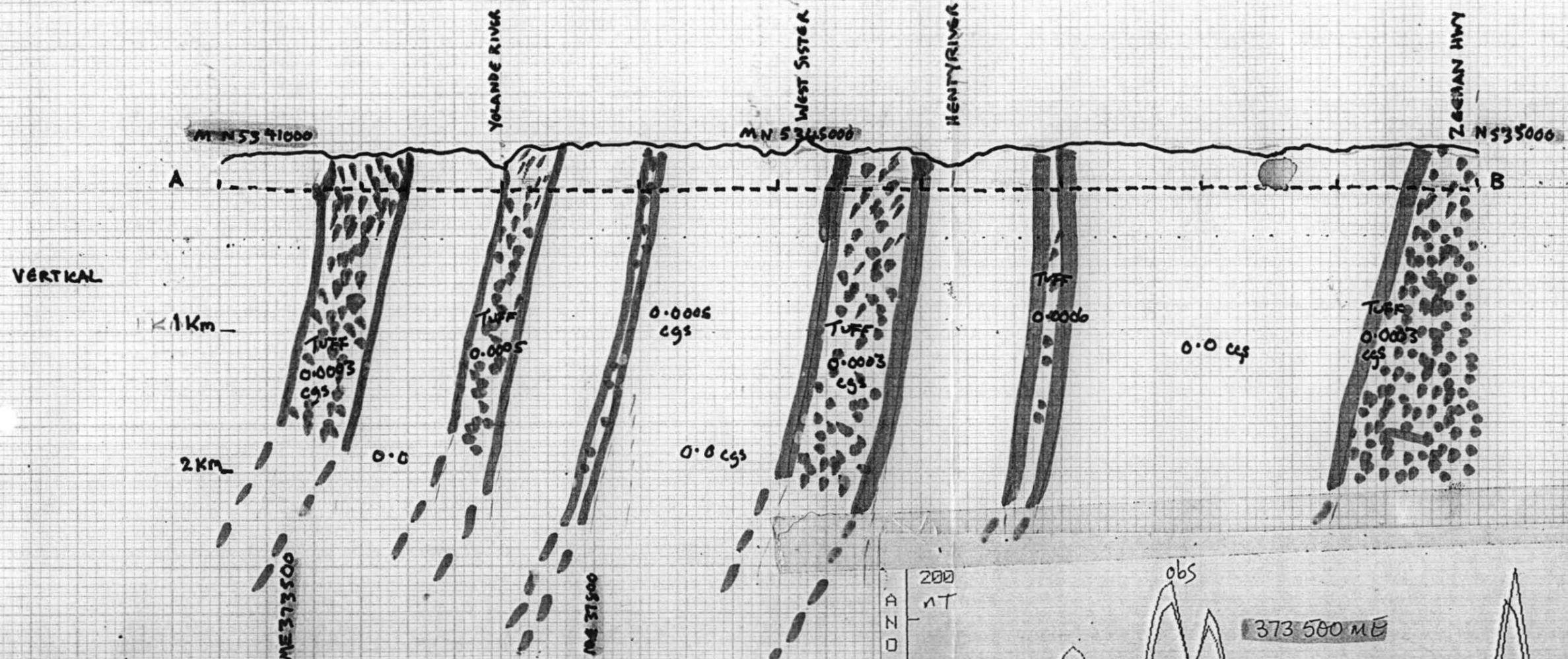
5KM

6KM

7KM



MAP 3



PRELIMINARY 2D MAGNETIC MODELS 5431 000 N YOLANDE RIVER REGION  
373 500 E

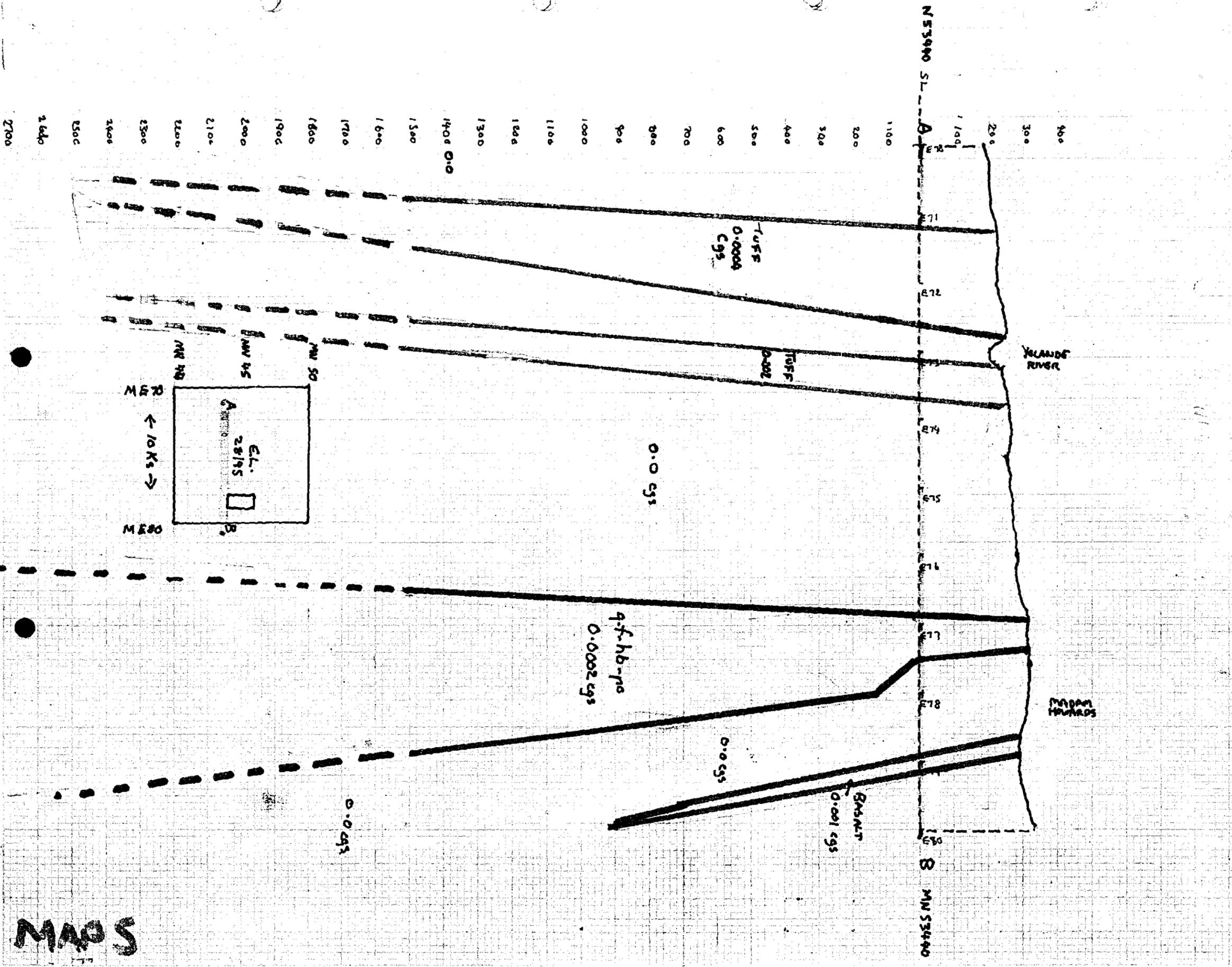
M4

588026

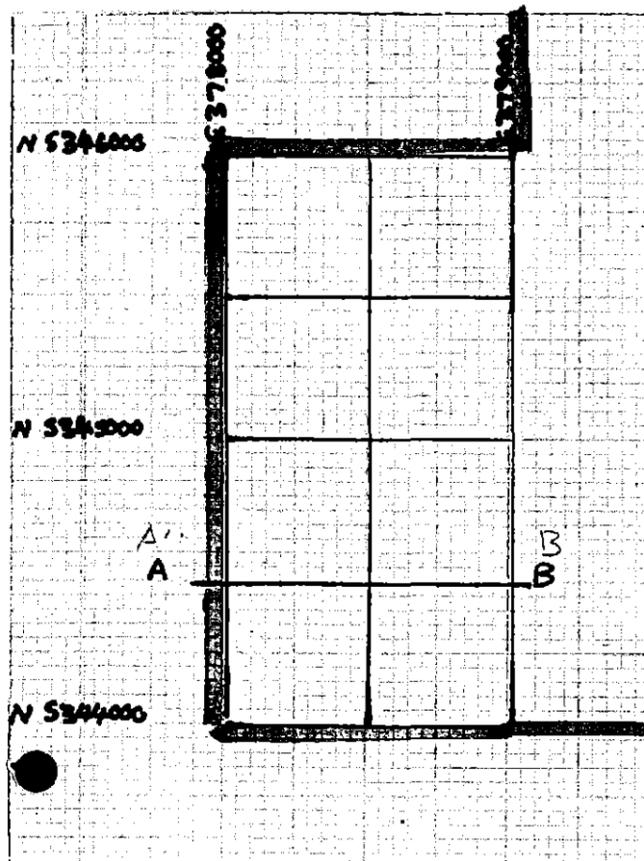
VERTICAL INTERPRETATION OF GEOPHYSICS  
HELICOPTER FLIGHT LINE N53440

E3770 - E3780

PASMINCO MAR 93  
LEAMAN GEOPHYSICS JULY 93

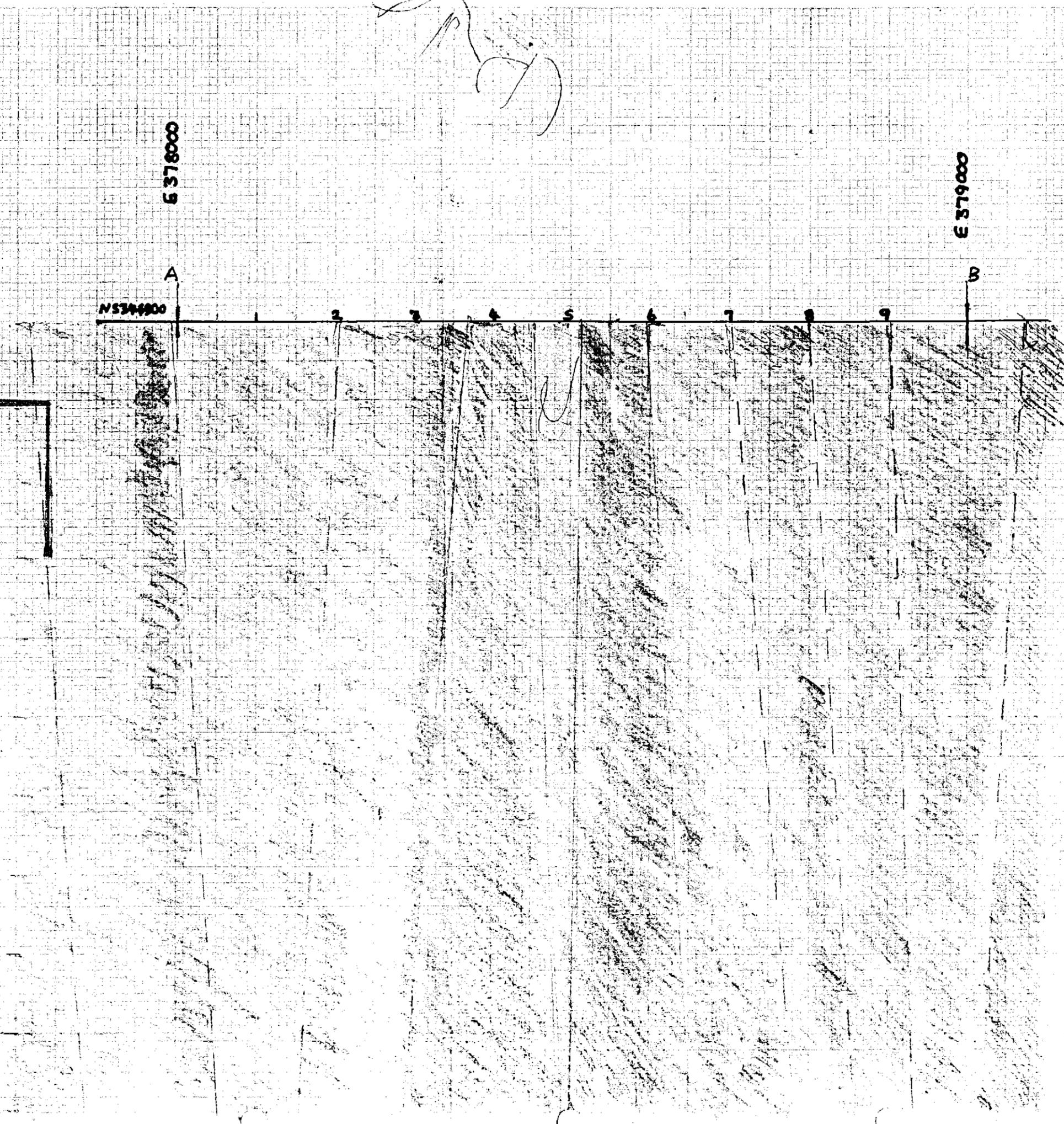


MAOS



VERTICAL INTERPRETATION  
 MAGNETIC STRATIGRAPHY  
 (INFERRED)

S 344500  
 ● E 378000 - E 379000



11106