

# COMMERCIAL-IN CONFIDENCE

MME1/293

20 APR 1972

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MAD. 84/17/13.

NOTE OF DISCUSSION 11 APRIL 1972 WITH NORANDA KERR LTD

Present: Dr Barry Scott )  
Mr Hans Morris ) Noranda Kerr Ltd  
  
Mr M S Morris )  
Mr D E R Scarr ) MME1  
Mr H Lees )

## 1 PARYS MOUNTAIN

About £100,000 has been spent on drilling and associated work and a decision has been taken to abandon the project.

No lead/zinc deposits of economic size had been discovered. The last three or four drill holes had intersected the low grade copper deposit known to exist in the Northern Zone and a further 10m tons of .7% copper could be added to those reserves. The deposit was 1500/2000' deep and at the present price of copper an underground operation could not be justified, not even if double or treble the tonnage were there, because mining costs would still be too high. Dr Scott said the ore body was dipping at 45° with a weak hanging wall, and old workings, possible flooded, above it.

Noranda Kerr have relinquished their rights under the agreement, but it is understood that Intermin Ltd are retaining theirs. The situation could therefore arise where Intermin Ltd would carry on exploring, though there are no plans to do so at present. There was discussion about whether, if this happened and a mine resulted, the government contribution could be recovered from Intermin Ltd. Noranda Kerr were surprised at the suggestion. So far as they were concerned there was not a marketable prospect at Parys and there was no question of money passing from them to Intermin.

Noranda Kerr will write notifying us officially that their work has been discontinued, leaving it to us to raise queries as necessary. It was suggested

Noranda might consider carefully the consequence of deciding that their project was abortive and perhaps discuss the matter at a meeting when IGS and if necessary Acc/S could be present.

## 2 COMPANY REORGANISATION

Noranda Kerr Ltd is owned jointly by Noranda Mines Ltd and Kerr Addison Mines Ltd, both Canadian companies. Noranda Mines Ltd had decided not to participate in any further joint ventures, but to go it alone. This applied to exploration in the UK and in other countries.

A new company had therefore been registered, Noranda Exploration (UK) Ltd a 100% owned subsidiary of Noranda Mines Ltd. In future all options, leases etc will be taken out in its name and all applications for assistance under the scheme will be made in the name of this company, which will manage all the projects previously submitted by Noranda Kerr Ltd. (The existing projects will stand unchanged in the name of Noranda Kerr Ltd because the options etc are in the name of that company). The directors of both companies are the same.

Dr Scott is drafting a note setting out details of the change and will send this and the Memorandum and Articles of Association to us shortly.

## 3 PLANNING

Noranda Kerr's consultations with LPAs had revealed a variety of attitudes. In Scotland there were no problems; planning officers had raised no objections to drilling regarding it as covered by the '28 day' rule in the GDO. The situation was very different in NW Wales where planning officers took the view that drilling was an engineering operation and planning permission was required. Some planning officers were prepared to give the go-ahead for scout drilling of 3/4 holes but more systematic drilling work would require permission.

Mr Hans Morris suggested a general circular to LPAs might bring about

uniformity of treatment.

Mr Morris said we appreciated Noranda's problem, but there was of course nothing unreasonable in the difference of views. The situation in a remote part of Scotland was obviously quite different from that in say Snowdonia. Even if a planning officer insisted on planning permission for drilling, it was not the end of the road, planning permission could always be sought and probably obtained in most cases.

As regards guidance to local planning authorities we had sympathy and the matter was under consideration. Our main concern was that to attempt to clarify the position by a central directive might result in planning permission being required for every drilling operation.

Dr Scott thought it should be possible to split drilling into different categories. Systematic exploration drilling would require permission but it seemed rather ridiculous that the planning machinery should have to be invoked for scout drilling with light rigs. Mr Hans Morris said there should be a clear distinction drawn between mining and exploration; the LPAs should not look further than the actual exploration proposal before them, and should not concern themselves with the question of a mine in that particular site.

Mr Morris agreed and said that an extension of exploration activity was required so that in due course it might be possible to select an area for mining operations.

#### 4. Noranda programmes

A tactful enquiry was made by Mr Morris about Noranda's work programmes and the adequacy of the resources employed in servicing the relatively large areas held under options. Dr Scott said

- (i) Their technical staff was adequate.
- (ii) There was no intention of holding on to land unnecessarily and all programmes would be carried out to the best of their ability.

(iii) The company was looking for results. They would be pleased to bring along relevant maps etc and discuss progress and results any time with DTI and IGS. Dr Scott proposed quarterly meetings if we desired.

It was left that a meeting should be arranged shortly to discuss generally how Noranda Kerr were progressing at which the IGS would of course be present.

*H Lees*

H LEES

18 April 1972

cc. Mr Archer IGS.  
Mr Crow IGS.  
~~Mr~~  
1 file MME 1/DEG 2  
Mrs Denham.

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Cc Welsh office  
DTI office for Wales

Mineral Development Branch

2074

The Clerk of the Council  
Anglesey County Council  
Shire Hall LLANGEFNI.  
Anglesey  
N Wales

MME 1/149

29 October 1971

For the attention of the Deputy Planning Officer (Mr Powell)

Dear Sir

PROPOSAL BY AMLWCH UDC TO ESTABLISH A REFUSE TIP AT PARYS MOUNTAIN

1 We understand from the Welsh Office that you propose to invite this Department to provide comments upon the proposed siting of a refuse tip at Parys Mountain, Anglesey. As your formal invitation has not yet arrived and we understand that the application will be considered by the Planning Committee on 3rd November, I am writing to explain the Department's interest in this matter.

2 The Secretary of State for Trade and Industry, who is responsible for the Government's general policy on mineral development, wishes to encourage mineral development in Great Britain. The Department is at present considering an application for financial assistance towards the cost of exploring for lead, zinc, and copper at Parys Mountain. The exploration programme which is already proceeding, is expected to continue for a period of up to three years. If it is successful it would be reasonable to expect that an application for planning permission to mine at this site might be made in due course.

3 The Institute of Geological Sciences has advised in favour of further exploration at Parys Mountain. Drilling, especially of inclined boreholes, may be required in the area which the Amlwch UDC propose to use as a refuse tip. Furthermore in the event of future mining, the site of the proposed refuse tip might be needed for the extraction of copper from mine workings, or for possible precipitation processes. Also if there were future underground workings, polluted water from the tip might enter these workings.

4 The proposed refuse tip would thus be an impediment both to the exploration programme and to the possible future development of the mineral resources of Parys Mountain. In view of this situation and the benefits to the economy, both national and local, which would accrue from metalliferous mining at Parys Mountain, the Department cannot consider it opportune for the proposed refuse tip to be authorised at present. We therefore suggest that the Planning Committee might wish to consider

refusing the application at this stage so that developments arising from the work in progress at Parys Mountain are not impeded.

5 A copy of this letter is being sent to the Welsh office and to the DEI ~~Regional~~ Director for Wales at Cardiff.

Yours faithfully

*AL*

II TIMES

cc Dr Slater IGS

## FINANCIAL ASSISTANCE FOR MINERAL EXPLORATION

NOTE OF MEETING IN THAMES HOUSE SOUTH AT 10.15 AM ON 11 NOVEMBER 1971

## Present:

M S Morris	DTI
D E R Scarr	"
H Lees	"
J S Humphreys	"
B Scott	Noranda Kerr Ltd
H R Morris	"

1 Dr Scott wished to discuss progress on Noranda's application for assistance towards stage 1 of the Parys Mountain programme. He said the application had been submitted 4 weeks ago but he understood that consideration had been delayed because the IGS did not agree all the company's drilling programme.

2 Mr Morris refuted this suggestion. The application had been handled with promptitude considering the fact that the involvement of an overseas company necessarily involved stringent inquiries in order to protect public money. Whilst the IGS had some doubts about the choice of drilling sites, the DTI did not wish to dictate methods of exploration. Nothing the IGS had said had delayed or altered our decision. We hoped to communicate a favourable verdict shortly. There was some concern, however, that full account appeared not to have been taken of all the information already available on the geology of Parys.

3 Dr Scott conceded that he must have misunderstood the result of a recent telephone inquiry about progress on the application. He said that he maintained close liaison with Intermin and he believed Noranda had complete records of previous workings at Parys, although Mr Lees pointed out that this fact was not borne out in recent discussions at the site. Dr Scott was disturbed by the apparent role of the IGS and said that if they had particular objections they ought to be made in writing. Mr Morris said objections was too strong a word. It was quite true to say that the IGS views differed from those of the operating company in some respects and some of these differences had been aired verbally in the visit a fortnight ago. However, he felt that Noranda should take up the matter direct with the IGS. In his view, ~~however~~, there would be great difficulties in the way of making a written report - even if this were desirable - because of the voluminous background documentation and the time involved.

4 Discussion turned to the results of Stage 1 to date. Work had now stopped at the Morfa Du area. The results from boreholes 1-4 had been as anticipated and showed 4, 5 and 6% lead and zinc mineralisation which could not be worked economically at present. The drillings confirmed an East-West trend and the main objective now was to test the synclinal felstite mass where the longer drill holes were.

5 At this point Dr Scott handed over an application for stage 2 of the programme. Drill hole IM7 had provided interesting results and three further holes would be bored nearby. IM6 had produced a very good section and it was proposed to drill a series further eastwards in a NW-SE direction to provide sections of reported areas of lead zinc mineralisation, including blind ore shoots which did not appear on the surface.

6 In summing up Mr Morris said that he hoped to write within a week intimating approval of Stage 1 (subject to legislation). Stage 2 (which follows directly Stage 1) would be appraised as quickly as possible. We would also like a sight of the Noranda/Intermin agreement and the agreements covering mineral rights.

He advised Dr Scott to ensure that the people on site contacted the IGS in Leeds to discuss current and future stages of the scheme, exchange views on geology, and to establish a good relationship.

7 Dr Scott said he had not previously been aware of what appeared to be a communication gap and he undertook to take immediate steps to rectify this. He pointed out that there was bound to be some clash of personalities between fellow geologists but he would ensure that IGS Leeds were also brought into the picture on other proposed schemes in North Wales.

8 It was disclosed that Noranda had some 10-12 schemes in the pipeline including 3 drilling programmes of some 2-3,000 feet, one each in Scotland, Wales and Cornwall, which would soon be submitted to the DTI. These schemes would not involve Intermines.

9 In response to a query from Mr Searr, Dr Scott concluded by stating that, if required, there would be no difficulty in securing a financial guarantee from Noranda Mines Ltd (the Canadian parent) in respect of any monies advanced under the scheme to Noranda-Kerr Ltd.

*JS*  
J S HUMPHREYS  
MMEL

12 November 1971



STATEMENT 1

PM 1

STATEMENT OF GEOLOGY AND EXPLORATION PROPOSALS FOR PARYS/MONA PROJECT, STAGE 11. General Geology

The project area contains a succession of Ordovician volcanic rocks (felsite) which have been folded into synclinal structure, overturned to the north; within the syncline Silurian shales occur (See Map No. 1).

Extensive copper mineralisation has been worked in the past, largely in the 19th Century, on the northern edge of the northern limb (the Carreg-y-doll zone) and since about 1950 this zone has been tested by diamond drilling. Several million tons of low grade copper mineralisation have been outlined but the grade is too low for underground extraction: the possibilities of open-cut working does not exist in this particular zone and in this project this area is not being further tested.

Lead-zinc mineralisation, with subsidiary copper, is known in several other areas and the purpose of this project is to evaluate these zones.

2. Diamond Drilling Programme

The areas that have been selected are the following (Map No.1):

- A. The Morfa-du area;
- B. The Coronation zone;
- C. Western and Eastern Open Pit area;
- D. Bluestone-Marquis-Henwaith area.

These areas are shown on the attached map. The areas that will be discussed in this proposal will be the Morfa-du, the Coronation, and the Western Open Pit area. Studies are continuing on the remainder.

It should be noted in this report that the term "Bluestone Ground" means silicified or cherty black shale

containing / ..

containing sulphides of lead, zinc, copper and silver either in disseminated or massive form: volcanic rocks are usually intercalated.

A. Morfa-Du Area (Map No. 1, Nos. 2, 3, and 4)

Morfa Du is the name commonly given to the most westerly workings on the Anglesey property. The area can be broken down into three zones designated as follows:

- a) White Rock;
- b) Morfa-du Mine;
- c) Chapel.

A program one of drilling was carried out in this area in the past and promising mineralization was cut in numerous holes, however there was no correlation between the higher grade sections that were cut or the extensive low grade zone that appears to enclose them. This was especially true of the high grade area between D.D.H. No. 10A and No. 13 for attempts at correlation between the holes met with no success.

Recent geological mapping indicates that the general trend in this area is roughly east-west ( $080^{\circ}$ ) and is conformable to the regional trend that is evident throughout the whole mineral belt. Relogging and studies of the previous boreholes also show that the general trend in the area is roughly east-west and indicates most of these holes were drilled parallel or subparallel to the formations and down the dip or plunge of the formations: examination of the core in many old holes indicates banding and bedding parallel or subparallel to core axis. In the area of Morfa-du there are numerous north-south tear faults associated with thrusting which has off-set and staggered the formations in the general north-south direction, especially the White Rock zone, giving the impression that the zone is trending north-south. There is also regional schistosity in the area as well as the local schistosity which has confused the overall picture.

The three areas are discussed separately below with the proposed drilling:

a) / ...

a) White Rock Zone

The White Rock zone lies immediately to the west of large outcrops (Map No. 1) of silicious material that outcrops conspicuously along the road to Morfa-du. Promising mineralisation was cut in this zone and previous estimates of approximately 250,000 to 300,000 tons of 12% combined lead-zinc, 1.8 ounces silver and 0.60% copper exist. Our studies indicate the zone is approximately 200 feet in width and trends roughly east-west. To the east the zone appears to terminate against the White Rock outcrops but to the west there are indications that it could continue under the Corwas Thrust and down-dip to the north. The following holes are proposed:

D.D.H. No. 1 (Map No. 2)

Bearing  $10^{\circ}$  east of south; inclination  $-70^{\circ}$ ; depth 800 feet. Will test the zone between D.D.H. No. 8 and D.D.H. No. 13 and continue into the footwall zone which has not been tested.

D.D.H. No. 2 (Map No. 2)

Bearing  $10^{\circ}$  east of south; inclination  $-60^{\circ}$ , depth 800 feet. Will be drilled to test the down-dip extension of D.D. H. No. 1.

If these holes are encouraging, drilling will extend so as to trace the extension to the west under the Corwas Thrust, in Stage 2 of this project.

b) Morfa-du Mine Area

Old maps and other reports (1860) indicate bluestone mineralisation over widths of some 270 feet in the Morfa-du zone (see Map No. 3 and No. 4) between the Ida Shaft and the Engine

Shaft / ...

Shaft: surface stopes exist in this area. Previous holes drilled (No. 15, No. 16 and No. 20) to cut this zone were drilled roughly parallel to it and D.D.H. No. 15 did intersect a small zone. There is evidence that the zone trends east-west and dips to the south and the following diamond drill holes will test this area (Map No. 2):

D.D.H. No.3

Located near the collar of D.D.H. No. 15; bearing due south; inclination  $-60^{\circ}$ ; proposed depth 800 feet. This hole will test the down-dip extension of the known mineralisation that was worked in the old Morfa-du Mine.

D.D.H. No. 4 - (Drilled if No. 3 is encouraging)

Bearing  $10^{\circ}$  east of south, inclination  $-65^{\circ}$ ; proposed length 800 feet. This hole will test the eastern down-dip extension of the Morfa-du zone to the east of the workings. The intersection of "bluestone" ground in D.D.H. No. 15 indicates that the zone persists to the east for some distance.

Future locations in Stage 2 of the project will depend upon the results received from these two holes.

c) Chapel Zone

The Chapel area lies some 500 feet to the south of the Morfa-du Mine (Map No. 1 and No.2). In this area are four shafts, Chapel, Pen-y-ant, Garden, and Whin but very little is known about the operations in this area. However, black cherts and shales similar to that of the Morfa-du and the Open Pit are present and pyrite mineralisation is also present. In addition

results / ...

results of a previous geophysical survey (induced polarisation) in this zone indicated favourable targets which have not yet been adequately tested.

It is proposed to test this with one hole.

D.D.H. No.5

Bearing  $10^{\circ}$  east of south;  
inclination  $-60^{\circ}$ , depth 600 feet. This hole will cut the hanging wall and foot-wall sides of the bluestone-shale zone.

Footage in Morfa-du Area

Five holes totaling 3800 feet.

B. Coronation Zone

The Coronation zone is that part of the Parys Mountain volcanic complex that lies between the Western Open Pit and the Morfa-du area. Geologically the area is made up of interbedded volcanics, acid fragmentals, ash beds, and sedimentary rocks. There is little evidence of the bluestone shale sequence on the surface, however there is a great amount of dump material that would obscure any outcrops if they exist. The ancient miners attempted to find the extension of the bluestone shale sequence by several shafts in this area, namely the Hughes, the Hughes Incline, the Coronation, the Morgan and the Dinorben. All of these cut extensively pyritized felsites with small amounts of chalcopyrite, however the main bluestone zone was not found.

The induced polarisation survey that was carried out previously indicated a large anomalous zone extending from the open pits to the White Rock zone in the Morfa-du area: old diamond drill holes No. 3, No. 12, and No.14 to 26 tested this anomaly. The holes in their upper parts cut highly sheared acid fragmentals with disseminated pyrite which could quite easily explain the large I.P. anomaly. Hole No. 3 cut a 6 foot section of massive sulphides at a vertical depth of

700 feet: black shales were cut in the lower part of both No. 3 and No. 12. It would appear that the holes were drilled mainly in the series of thrust sheets that have been pushed south cutting off the upper portions of the bluestone-shale sulphides and there is a good possibility that No. 3 after passing through the thrust sheet stopped in the bluestone felsite transition zone marked by pyrite and pods of bluestone. D.D.H. No. 12 may have passed into the shale footwall side of the bluestone into the souther felsites. In effect both of these holes may have straddled the zone at depth after passing the thrust sheet (Section No. 6).

The attached map (No. 1) shows the projection of the bluestone zone at depth under the thrust sheet. This projection as mentioned previously coincides with the Chapel mineralised area. It may be observed on the plan that the holes put down previously did not effectively test this zone. The presence of the cross-faulting in the zone also complicates the picture.

a) Diamond Drilling

It is recommended that a hole be drilled below D.D.H. No. 3 and carried to a depth so as to pass through the projected bluestone shale zone at depth, and possibly be extended to cut the footwall side of the southern felsite at depth. It will be drilled 200 feet west of D.D.H. No. 3 because of the possible presence of a cross-fault (N-S) which D.D.H. No. 3 may have cut.

D.D.H. No. 7

Bearing  $10^{\circ}$  east of south, inclination  $-60^{\circ}$ , length 2000 feet. Further drilling will be carried out depending upon the success of this hole in Stage 2 of this project.

b) Footage - Coronation Zone

One (1) hole 2000 feet in length.

c. / ...

C. Western Open Pit Area

There were four principle lodes occurring within the Western Open Pit (Map No. 3). These are the western extensions of the Clay Shaft Lode, the Black Shaft Lode, and other parallel lodes. In the Western Shaft area these were mined below the open pit to a depth of approximately 300 to 350 feet. (Section No. 5).

There is no report regarding the widths or grade of mineralisation at depth, however the 90 fathom cross-cut (540 feet) to drain the entire zone was driven under the Colonel Marquis Shafts in 1860. The old records show the shaft to cut approximately 300 to 400 feet of "Bluestone Ground" with five or six lodes noted on it. No mining took place at this level because of reported flooding.

a) Diamond Drilling

One hole is recommended to be drilled in the area of the Marias Shaft in a southeasterly direction to test the area between the Colonel and the Marquis in the Western Open Pit (Section No. 5). One of the difficulties in drilling on the Open Pits is the preponderance of workings between the Carreg-y-doll to the north and the Open Pit areas. The area proposed above is completely free of workings.

The hole bearing southeast (declination  $-60^{\circ}$ ) will have an estimated length of 2000 feet. The ground tested by the above proposed D.D.H. No. 6 is as follows:

- (i) the Bluestone Ground extension under the Western Open Pit.
- (ii) the hanging wall lodes equivalent to the western extension of the Great Lode of the Blackrock and Clay Shaft Lodes.
- (iii) the southern limite (Footwall) of the Silurian shales between the northern and southern felsites.

(iv) / ...

- (iv) the southern limit (footwall) of the southern felsite for the occurrence of bluestone or other lodes.

This hole will also give information concerning the possible western extension of the bluestone area through the Coronation zone. Further drilling will be based on the success of this hole.

b) Footage - Western Open Pit

One (1) hole 2000 in length.

Total Footage of Drilling in Stage 1

Morfa-du area	3800 feet
Coronation zone	2000 feet
Western Open Pit	<u>2000</u> feet
	<u>7800</u> feet

3. Core Logging - Splitting - Assaying

A core logging shack has been erected on the property in anticipation of the inclement weather normal to this area. Two additional core storage sheds have been constructed. A core splitting shed has been set up and organized. Arrangements have been made with Alfred H. Knight Limited, of 18 Church Road, Seacombe, Wallasey, Cheshire, U.K. to carry out analyses for copper, lead, zinc, silver and gold. Their laboratory located in Cheshire (approximately a 2 hour drive) will facilitate and expedite assay returns. Knights have their own pick-up service for core collection. Check samples will be run at Daniel C. Griffith & Co. Ltd., of 5-7 Dysart Street, London E.C. 2A 2BX, England.

4. Staffing

Dr. Robert Batey will be the Resident Geologist at Amlwch during the period of this program. He will be residing at the Dinorben Arms Hotel in Amlwch, telephone number 830-230 (Holyhead). The Intermine office is located at Pentre Gwian, telephone number 830-614 (Holyhead). Dr. Batey will be assisted by Dr. Jose Serrano.



NOTE FOR THE FILE

MRD.84/17/13.

cc Mr Drayson AccS  
Mr Slater IGS ✓

8

Mr Stanley W Holmes, President of Intermin Ltd, called on Mr Morris on 24 May to discuss the future of the Parys Mountain project. Mr Scarr and Mr King were also present.

Mr Holmes was enthusiastic as to the future of Parys Mountain. He said that work so far, which had included unscrambling the Canadian Gas and Oil log results, had increased the knowledge of known reserves from 33 million tons to 150 million tons. These reserves were mainly to the west and north of the main axis of the property. Intermin had concluded that the 'old timers' had been discouraged by the faulting in the area which gave the impression that the extent of the ore bodies was more limited than they had now been shown to be. Unfortunately many of the holes drilled recently had been stopped too early to intercept the dip of the fault with which the deposits were associated. This was despite the finding of very high values from one hole, (up to 10% lead sulphides and other minerals). According to Mr Holmes there was very little doubt that a viable underground mine could be worked at Parys.

Mr Holmes said that he considered that Noranda's decision to withdraw from Parys had been occasioned by internal politics and the Company reorganisation following the death of its president. On the results Intermin had been getting they had assumed that Noranda would continue. Mr Holmes was now trying to interest other partners in Parys. He talked in terms of a further  $\frac{1}{4}$  million of exploration being required to establish reserves of 500 million tons, (it was thought that an ore body 30' wide continued beyond the 60° dip). It would then be feasible to invest \$50-60 million to develop an underground mine processing 15-20,000 tons of ore a day. (Noranda's pessimistic interpretation of the facts was outlined in a meeting with them on 11 April, MMEI/AE/62/3).

The Department would be receiving a report setting out the results of the Intermin/Noranda work programme. The point was made that it seemed a little odd that the results had led to Noranda's reluctance to continue and to Intermin's enthusiasm.

Mr Holmes was visibly disconcerted when the question of who should assume the obligation to repay was broached. He said that it would add to his difficulties in selling the idea of continued exploration if there was a lien on the project. He was hoping that work would be able to start again in five to six weeks time as there was a work obligation in the option agreement. Later, however, in passing, Mr Holmes described as 'peanuts' the £35,000 which was the most Noranda would be able to receive under the Scheme towards their

expenditure at Parys. During discussion of the royalty rates which were payable Mr Holmes admitted that Intermin would be paying 4% of the gross on the adjoining Llys Dulas property while at Parys the royalty payable was only 6% of the net. He did not pursue the point when it was pointed out that the 3% of the gross which would be the level of repayment under the scheme was not large in comparison.

The difficulty in this case was that Noranda were effectively acting as 'angels' as backers of Intermin's operations at Parys. If Noranda dropped out no consideration would pass between Noranda and any subsequent backer. Noranda would, however, have assumed the controlling interest had exploration continued with more promising results. Mr Holmes also made the point that whether a consideration passed was irrelevant in that it was not likely that a successor would make use of its predecessor's results. A number of prospectors might well cover the ground before a mine was 'made'. 1x

Who should then assume the obligation to repay? Noranda had been fully aware of their obligation when they had applied. Prima facie if Noranda did not wish to take on the obligation then they would not receive the grant. The Department would have to be convinced that further exploration would be pointless before it agreed that the project was abandoned; for the moment it was not so convinced. If the project were to be regarded as abandoned then it was extremely unlikely that the Department would contribute to further exploration.

The background here was that the Department had to safeguard the taxpayer's money. The principle was that an obligation to repay had to pass when there was a transfer of interest during the twelve year period specified in the 'Guide'. This was to prevent a company abandoning a project and thus absolving itself of its obligation to repay in order to achieve an under-the-counter deal with an associate which would develop the mine. It was admitted that this would be an unlikely risk with a company of Noranda's standing.

It was a difficult problem. Noranda could apply for the grant and pass the obligation to Intermin or persuade Intermin to apply and accept the obligation. A solution would need to be found before any money could be paid out. The Department would be glad to help in finding a solution.

Intermin had also acquired rights on the adjoining Llys Dulas property. A certain amount of sampling and IP work had been done. Intermin were acting

here off their own bat. If a work programme were submitted it would be separate from that at Parys. There was no work commitment associated with the option however.

*Thompson*

for  
T A KING  
MME1

5 June 1972

*Received 12/6/72.  
G.F.H. Smith*

STATEMENT OF GEOLOGY AND EXPLORATION PROPOSALS FOR  
PARYS/MONA PROJECT, STAGE 2.

1. The General Geology has been previously described in our proposals for Stage 1.
2. Diamond Drilling Programme (IM 9 to IM 16) See Enclosed Plan.
- A. Coronation Zone.

Diamond drill hole 7 was located to test this zone at depth and a skeleton log to a depth of 811 feet is given in the previous section of this submission. The core contains sufficient chalcopyrite and galena to be of further interest and it is proposed to drill three additional holes, as follows.

DDH No. 14. (See enclosed plan).

Bearing  $165^{\circ}$ , inclination -  $65^{\circ}$ , depth 1000 feet. Will test the down-dip extensions of the sulphide mineralisation located in DDH 7.

DDH No. 15.

Bearing  $165^{\circ}$ , inclination -  $65^{\circ}$ , depth 1000 feet. Will test the westerly extension of the mineralisation located in DDH 7.

DDH No. 16.

Bearing  $165^{\circ}$ , inclination -  $65^{\circ}$ , depth 1000 feet. Will test the easterly extension of the mineralisation located in DDH 7.

Footage in Coronation Zone Area.

Three holes totalling 3,000 feet.

- B. Southern Felsite - Southern Shale Contact (Mona Mine).

The southern felsite - southern shale contact is the subject of discussion and arguments have developed as to whether the southern felsite is either a faulted or folded portion of the northern felsite, or whether it is a distinctly different unit. Other discussions have been put forth concerning the southern shales with respect to the shales occurring within the Open Pit and Bluestone areas. Current opinion is supported by fossil evidence which shows fairly conclusively that the southern shales are Ordovician, as opposed to the Silurian shales occurring in the mineralised zones of the Open Pit.

Mineralisation on the surface is practically absent in the southern felsite but there has been no serious testing of this area.

DDH No. 9.

Bearing  $160^{\circ}$ , inclination  $-60^{\circ}$ , depth 500 feet.

This hole will cut the footwall of the southern felsite and be continued into the hanging wall of the southern shales to test for possible mineralisation. It will also test the I.P. anomaly that occurs in this area as well as an earlier E.M. anomaly that was recorded some 15 years ago during the time that British Metals Co. Ltd. were examining the area.

Footage in southern felsite zone.  
One hole totalling 500 feet.

C. Hillside Opencast Area. (Mona Mine).

The Hillside Open Cast contained the reputedly rich "bluestone" mineralisation in the Clay Shaft and Black Rock holes. The Clay Shaft and the Black Rock lodes were apparently of major dimensions in this area and were mined to a depth of approximately 200 feet. No drill holes have tested below this depth, possibly because of the occurrence of old workings on the Carreg-y-dol mineralised zone to the north. There is, however, an area in the Carreg-y-dol zone between the Charlotte and Francis Shafts extending to the Golden Venture Shafts, a distance of some 800 ft., in which no workings exist. It is in this area that it is possible to position a hole so as to test these lodes at depth.

DDH No. 10.

Bearing  $160^{\circ}$ , inclination  $-65^{\circ}$ , depth 1200 feet. This hole will test the following:

- a. The possible easterly extensions of the Clay Shaft and Black Rock lodes. CIGOL Hole 2 (9700N 10800E) was drilled in this area and disseminated sphalerite, galena and pyrite were intersected in Silurian shale over a core length of 28 feet, at a vertical depth of 150 feet below collar. This section assayed 3.31% combined lead plus zinc with 2.40 ozs. per ton silver and, at the time of drilling, it was thought that this mineralisation was probably an attenuated extension of that mined in the Hillside Open Cast some 500 feet to the west. This DDH 10 will test the down-dip extension of this inter-section at the lower depth of approximately 500 feet below collar level.

- b. The hole will be continued to test the complete section of the Silurian shales which exist between the two felsites. Previously CIGOL hole 2 had tested this area at a higher level.
- c. It will test, at approximately minus 900 ft. below sea level, the contact zone between the southern felsite and the Silurian shales. CIGOL hole 2 contained some intersections of pyrite at this contact which was intersected at minus 650 feet below sea level. Boreholes 9 and 10, in conjunction with CIGOL hole 2 will provide a cross-section through the felsite/sediments in this area.

Footage in Hillside Opencast Area.  
One hole totalling 1200 feet.

D. Bluestone Shaft Area (Mona Mine).

The Bluestone Shaft was put down in a lense of reportedly high grade sulphide mineralisation that occurred several hundred feet along strike to the east of the Clay Shaft and Black Rock Lodes.

DDH No. 11.

Bearing  $180^{\circ}$ , inclination  $-65^{\circ}$ , depth 1000 feet. This hole will test the area outlined above.

Footage in Bluestone Shaft Area.  
One hole totalling 1000 feet.

E. Marquis - Henwaith Zone East. (Mona Mine).

In order to test the easterly portion of the Parys/Mona property two holes will be required, as located on the accompanying plan.

DDH No. 12.

Bearing  $160^{\circ}$ , inclination  $-60^{\circ}$ , depth 1200 feet.

DDH No. 13.

Bearing  $160^{\circ}$ , inclination  $-65^{\circ}$ , depth 1200 feet.

Footage in Marquis - Henwaith Zone East.  
Two holes totalling 2400 feet.

3. Summary of Diamond Drilling Programme - Stage 2.

A.	Coronation Zone:	3 holes	totalling	3,000 feet
B.	Southern Felsite Zone:	1 hole		500
C.	Hillside Opencast Area:	1 hole		1,200
D.	Bluestone Shaft Area:	1 hole		1,000
E.	Marquis-Henwaith Zone:	2 holes		2,400
				<hr/>
				8,100 feet
				<hr/> <hr/>

~~PM3~~

PM4

~~NOT~~ Jan 72.

STATEMENT 1.

STATEMENT OF GEOLOGY AND EXPLORATION PROPOSALS FOR  
PARYS/MONA PROJECT STAGE 3

1. The General Geology, with maps, have been previously presented in the proposals for Stages 1 and 2.

2. Diamond Drilling Programme

Previous drilling on the northern contact of the felsite body with the Ordovician shale outlined of an area of copper sulphide mineralization in a zone of brecciation and silification (Carreg-y-Doll lode). The mineralization consists of pyrite and chalcopyrite disseminations and as veinlets in the country rock, with minor sphalerite and galena.

In the hanging wall of the Carreg-y-Doll zone several other lodes occur, as the North Discovery and the South Branch lodes, and all have been exploited in former mining operations. From the results of drilling it appears that these principal hanging wall lodes converge downwards and merge with the main Carreg-y-Doll zone at depths which vary from minus 300 ft. below surface (in Borehole M-7) to 850 ft. further to the west, in Borehole M-1. Below this convergence the main lode is the only one of economic interest and whilst it generally carries copper mineralization throughout its entire width where it opens into a wider body, there is usually a relative concentration of values at the top and bottom of the mineralized zone.

Several of the boreholes in this Northern Zone intersected considerable widths of copper mineralization and three such examples are as follows :

<u>Borehole</u>	<u>True Width</u>	<u>Grade Copper</u>
M - 10	310 feet	0.49%
30	175 feet	0.68%
36A	130 feet	0.65%

Dr. Norman Schindler in his report of April 30th, 1970, calculated an ore reserve based on these and other intersections as 32,825,000 short tons at an average grade of 0.71% copper. Whilst this tonnage is impressive the grade is too low for an



economic mining operation as the mineral would have to be extracted underground.

The same report presents an additional ore reserve figure, based only on the higher grade intersections, of 9,884,000 short tons at an average grade of 1.21% copper, allowing for a dilution factor of 10%.

This is the type of grade that could possibly be worked by an underground operation at a production rate of 5,000 tons per day. However, over a ten year period this calls for an ore reserve of 15 million tons. Consequently, a drilling programme is proposed to further test this Northern Zone to see if the previous ore reserve figure of just under 10 million tons can be increased by a factor of 50%. All holes would be located on the northern flank of the felsite, commencing in the Ordovician shales, and drilled southwards. The holes would be long, up to 1,800 feet in length, and a programme of 12,000 feet of drilling is justified.

NORANDA-KERR LIMITED

PARYS/MONA MINERAL EXPLORATION PROJECT  
ANGLESEY, N.W. WALES

STAGE 1.

October, 1971.

DOCUMENTS INCLUDED IN THIS REPORT BUT NOT ATTACHED TO  
THIS DOCUMENT

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1 copy of the Memorandum and Articles of Association of Noranda-Kerr Limited.

1 copy of 1970 Annual Report of Noranda Mines Limited.

3 copies of the following maps:

Map 1: General Plan of Parys/Mona area with proposed drilling programme at 1 inch equals 200 feet.

2: Proposed drilling programme in the Morfa-Du area at 1 inch equals 50 feet.

3: Plan of Morfa-Du area at 1 inch equals 60 feet.

4: Cross Section of Western Open Pit showing proposed Borehole No. 6 at 1 inch equals 60 feet.

5: Cross Section of the Coronation Zone showing proposed Borehole No. 7 at 1 inch equals 100 feet.

6: Longitudinal Section on Morfa-Du Mine at 1 inch equals 60 feet.

INFORMATION REQUIRED IN SUPPORT OF AN APPLICATION FOR  
FINANCIAL ASSISTANCE FOR MINERAL EXPLORATION

PARYS/MONA PROJECT, ANGLESEY, N.W. WALES, STAGE 1

1.

Details of Applicants

1. This application is made by Noranda-Kerr Limited of 6 Curzon Place, London W. 1, telephone number 01-629-9919. The registered address of Noranda is New Zealand House, Haymarket, London S.W.1.

A banker's reference can be obtained from the Bank of Nova Scotia Ltd., 10 Berkley Square, London W1.

Dr. Barry Scott at the above address and telephone number at Curzon Place should be contacted for further information.

2. The exploration will be carried out by a Company named Interline Limited, of Suite 1008, 110 Yonge Street, Toronto 210, Ontario, Canada, telephone number Toronto 364-7263.

Noranda's relationship with the above is that this Company has the option on the mineral rights in the area in question and that Noranda is financing 100% of the exploration costs for this project and has an agreement to acquire and work the minerals if they so desire.

II.

Financial Information

3. a. A copy of the Memorandum and Articles of Association of Noranda-Kerr Limited is enclosed.

b. Noranda-Kerr Limited was registered as a U.K. Company on 2nd January 1970, our first annual audit for the year 1970 is complete and will be adopted at the next board meeting. Our Auditors are Arthur Young, McClelland and Moores and Co., of Moor House, London Wall, E.C.2 (01-628-4070): the partner concerned is Mr. Brian Walters.

c. / ...

- c. We are controlled by Noranda Mines Limited of Toronto, Canada, and a copy of their Annual Report for 1970 is enclosed.
- d. We are not associated with any other business other than being controlled by our parent Company, Noranda Mines Limited. All of the Directors, with the exception of one, are employed by Noranda: the exception is Mr. P.J. Gaynor who is a partner in the legal firm of McKenna and Company of 10 Whitehall, London.
- e. The stocks/shares of Noranda Mines Limited are quoted on the Toronto Stock exchange, Ontario, Canada.

### III.

#### Details of the Exploration Project

- 4. a. The project is known as the Parys/Mona project in Anglesey, N.W. Wales.
- b. The site address is Pentre Gwian, near Amlwch, Anglesey: telephone 830-614 (Holyhead).
- Three copies of a map indicating the boundaries of the area to be explored are enclosed.
- The National Grid Reference of the centre of the main area of interest is Sh 440 903.
- c. We are seeking lead, zinc and copper.
- d. Three copies of a separate statement, with maps, etc., which identifies the specific target zones are enclosed (Statement 1).
- 5. a. The mineral rights are owned by several land owners; the largest areas and the areas of main interest are held by the Most Honourable George Charles Henry Victor Marques of Anglesey and Sir Arundell Thomas Clifton Neave.

b. / ...

- b. A valid legal agreement exists for exploration to be carried out for a period of three years commencing from the 1st September, 1971.
  - c. At the end of the three year period Interline Limited can exercise their option to obtain all rights to the minerals of the area - the payment will be made as a percentage of a new Company formed to work the minerals. Upon obtaining these rights they will be transferred to Noranda who will develop, finance and manage the property, Noranda retaining a majority shareholding in this new Company.
6. No formal arrangements have yet been made for planning permission as none is considered necessary at this stage. We are, however, in close contact with local interests.

#### IV.

##### Details of Work Programme

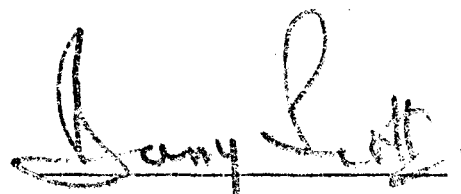
7. a. The work programme for which assistance is being sought is largely outlined under Section 4 (d) above.

It consists essentially of a diamond drilling programme of seven holes totalling 7800 feet of coring, with the employment of two Geologists to supervise the drilling, carry out geological mapping, and complete a geochemical soil sampling programme.

- b. The programme commenced on 1st September and this first stage of the programme is scheduled to be completed by middle of November 1971.
  - c. Three copies of a separate statement giving the estimated cost of the work programme is attached (Table 1).
  - d. We are seeking 35% of the estimated cost given in the separate statement.
8. The remaining 65% of the cost of the exploration project will be financed by Noranda.

9. Signed by Dr. Barry Scott, Managing Director of  
Noranda-Kerr Limited.

4th  
October, 1971.



A handwritten signature in dark ink, appearing to read 'Barry Scott', is written over a horizontal line. The signature is fluid and cursive.

BARRY SCOTT

## STATEMENT 1

### STATEMENT OF GEOLOGY AND EXPLORATION PROPOSALS FOR PARYS/MONA PROJECT, STAGE 1

---

#### 1. General Geology

The project area contains a succession of Ordovician volcanic rocks (felsite) which have been folded into synclinal structure, overturned to the north; within the syncline Silurian shales occur (See Map No. 1).

Extensive copper mineralisation has been worked in the past, largely in the 19th Century, on the northern edge of the northern limb (the Carreg-y-doll zone) and since about 1950 this zone has been tested by diamond drilling. Several million tons of low grade copper mineralisation have been outlined but the grade is too low for underground extraction: the possibilities of open-cut working does not exist in this particular zone and in this project this area is not being further tested.

Lead-zinc mineralisation, with subsidiary copper, is known in several other areas and the purpose of this project is to evaluate these zones.

#### 2. Diamond Drilling Programme

The areas that have been selected are the following (Map No.1):

- A. The Morfa-du area;
- B. The Coronation zone;
- C. Western and Eastern Open Pit area;
- D. Bluestone-Marquis-Henwaith area.

These areas are shown on the attached map. The areas that will be discussed in this proposal will be the Morfa-du, the Coronation, and the Western Open Pit area. Studies are continuing on the remainder.

It should be noted in this report that the term "Bluestone Ground" means silicified or cherty black shale

containing / ...



containing sulphides of lead, zinc, copper and silver either in disseminated or massive form: volcanic rocks are usually intercalated.

A. Morfa-Du Area (Map No. 1, Nos. 2, 3, and 4)

Morfa Du is the name commonly given to the most westerly workings on the Anglesey property. The area can be broken down into three zones designated as follows:

- a) White Rock;
- b) Morfa-du Mine;
- c) Chapel.

A program one of drilling was carried out in this area in the past and promising mineralization was cut in numerous holes, however there was no correlation between the higher grade sections that were cut or the extensive low grade zone that appears to enclose them. This was especially true of the high grade area between D.D.H. No. 10A and No. 13 for attempts at correlation between the holes met with no success.

Recent geological mapping indicates that the general trend in this area is roughly east-west ( $080^{\circ}$ ) and is conformable to the regional trend that is evident throughout the whole mineral belt. Relogging and studies of the previous boreholes also show that the general trend in the area is roughly east-west and indicates most of these holes were drilled parallel or subparallel to the formations and down the dip or plunge of the formations: examination of the core in many old holes indicates banding and bedding parallel or subparallel to core axis. In the area of Morfa-du there are numerous north-south tear faults associated with thrusting which has off-set and staggered the formations in the general north-south direction, especially the White Rock zone, giving the impression that the zone is trending north-south. There is also regional schistosity in the area as well as the local schistosity which has confused the overall picture.

The three areas are discussed separately below with the proposed drilling:

a) / ...

a) White Rock Zone

The White Rock zone lies immediately to the west of large outcrops (Map No. 1) of silicious material that outcrops conspicuously along the road to Morfa-du. Promising mineralisation was cut in this zone and previous estimates of approximately 250,000 to 300,000 tons of 12% combined lead-zinc, 1.8 ounces silver and 0.60% copper exist. Our studies indicate the zone is approximately 200 feet in width and trends roughly east-west. To the east the zone appears to terminate against the White Rock outcrops but to the west there are indications that it could continue under the Corwas Thrust and down-dip to the north. The following holes are proposed:

D.D.H. No. 1 (Map No. 2)

Bearing  $10^{\circ}$  east of south; inclination  $-70^{\circ}$ ; depth 800 feet. Will test the zone between D.D.H. No. 8 and D.D.H. No. 13 and continue into the footwall zone which has not been tested.

D.D.H. No. 2 (Map No. 2)

Bearing  $10^{\circ}$  east of south; inclination  $-60^{\circ}$ , depth 800 feet. Will be drilled to test the down-dip extension of D.D. H. No. 1.

If these holes are encouraging, drilling will extend so as to trace the extension to the west under the Corwas Thrust, in Stage 2 of this project.

b) Morfa-du Mine Area

Old maps and other reports (1860) indicate bluestone mineralisation over widths of some 270 feet in the Morfa-du zone (see Map No. 3 and No. 4) between the Ida Shaft and the Engine

Shaft / ...

Shaft: surface stopes exist in this area. Previous holes drilled (No. 15, No. 16 and No. 20) to cut this zone were drilled roughly parallel to it and D.D.H. No. 15 did intersect a small zone. There is evidence that the zone trends east-west and dips to the south and the following diamond drill holes will test this area (Map No. 2):

D.D.H. No.3

Located near the collar of D.D.H. No. 15; bearing due south; inclination  $-60^{\circ}$ ; proposed depth 800 feet. This hole will test the down-dip extension of the known mineralisation that was worked in the old Morfa-du Mine.

D.D.H. No. 4 - (Drilled if No. 3 is encouraging)

Bearing  $10^{\circ}$  east of south, inclination  $-65^{\circ}$ ; proposed length 800 feet. This hole will test the eastern down-dip extension of the Morfa-du zone to the east of the workings. The intersection of "bluestone" ground in D.D.H. No. 15 indicates that the zone persists to the east for some distance.

Future locations in Stage 2 of the project will depend upon the results received from these two holes.

c) Chapel Zone

The Chapel area lies some 500 feet to the south of the Morfa-du Mine (Map No. 1 and No.2). In this area are four shafts, Chapel, Pen-y-ant, Garden, and Whin but very little is known about the operations in this area. However, black cherts and shales similar to that of the Morfa-du and the Open Pit are present and pyrite mineralisation is also present. In addition

results / ...

results of a previous geophysical survey (induced polarisation) in this zone indicated favourable targets which have not yet been adequately tested.

It is proposed to test this with one hole.

D.D.H. No.5

Bearing  $10^{\circ}$  east of south;  
inclination  $-60^{\circ}$ , depth 600 feet. This hole will cut the hanging wall and foot-wall sides of the bluestone-shale zone.

Footage in Morfa-du Area

Five holes totaling 3800 feet.

B. Coronation Zone

The Coronation zone is that part of the Parys Mountain volcanic complex that lies between the Western Open Pit and the Morfa-du area. Geologically the area is made up of interbedded volcanics, acid fragmentals, ash beds, and sedimentary rocks. There is little evidence of the bluestone shale sequence on the surface, however there is a great amount of dump material that would obscure any outcrops if they exist. The ancient miners attempted to find the extension of the bluestone shale sequence by several shafts in this area, namely the Hughes, the Hughes Incline, the Coronation, the Morgan and the Dinorben. All of these cut extensively pyritized felsites with small amounts of chalcopyrite, however the main bluestone zone was not found.

The induced polarisation survey that was carried out previously indicated a large anomalous zone extending from the open pits to the White Rock zone in the Morfa-du area: old diamond drill holes No. 3, No. 12, and No.14 to 26 tested this anomaly. The holes in their upper parts cut highly sheared acid fragmentals with disseminated pyrite which could quite easily explain the large I.P. anomaly. Hole No. 3 cut a 6 foot section of massive sulphides at a vertical depth of

700 feet: black shales were cut in the lower part of both No. 3 and No. 12. It would appear that the holes were drilled mainly in the series of thrust sheets that have been pushed south cutting off the upper portions of the bluestone-shale sulphides and there is a good possibility that No. 3 after passing through the thrust sheet stopped in the bluestone felsite transition zone marked by pyrite and pods of bluestone. D.D.H. No. 12 may have passed into the shale footwall side of the bluestone into the souther felsites. In effect both of these holes may have straddled the zone at depth after passing the thrust sheet (Section No. 6).

The attached map (No. 1) shows the projection of the bluestone zone at depth under the thrust sheet. This projection as mentioned previously coincides with the Chapel mineralised area. It may be observed on the plan that the holes put down previously did not effectively test this zone. The presence of the cross-faulting in the zone also complicates the picture.

a) Diamond Drilling

It is recommended that a hole be drilled below D.D.H. No. 3 and carried to a depth so as to pass through the projected bluestone shale zone at depth, and possibly be extended to cut the footwall side of the southern felsite at depth. It will be drilled 200 feet west of D.D.H. No. 3 because of the possible presence of a cross-fault (N-S) which D.D.H. No. 3 may have cut.

D.D.H. No. 7

Bearing  $10^{\circ}$  east of south, inclination  $-60^{\circ}$ , length 2000 feet. Further drilling will be carried out depending upon the success of this hole in Stage 2 of this project.

b) Footage - Coronation Zone

One (1) hole 2000 feet in length.

c. / ...

C. Western Open Pit Area

There were four principle lodes occurring within the Western Open Pit (Map No. 3). These are the western extensions of the Clay Shaft Lode, the Black Shaft Lode, and other parallel lodes. In the Western Shaft area these were mined below the open pit to a depth of approximately 300 to 350 feet. (Section No. 5).

There is no report regarding the widths or grade of mineralisation at depth, however the 90 fathom cross-cut (540 feet) to drain the entire zone was driven under the Colonel Marquis Shafts in 1860. The old records show the shaft to cut approximately 300 to 400 feet of "Bluestone Ground" with five or six lodes noted on it. No mining took place at this level because of reported flooding.

a) Diamond Drilling

One hole is recommended to be drilled in the area of the Marias Shaft in a south-easterly direction to test the area between the Colonel and the Marquis in the Western Open Pit (Section No. 5). One of the difficulties in drilling on the Open Pits is the preponderance of workings between the Carreg-y-doll to the north and the Open Pit areas. The area proposed above is completely free of workings.

The hole bearing southeast (declination  $-60^{\circ}$ ) will have an estimated length of 2000 feet. The ground tested by the above proposed D.D.H. No. 6 is as follows:

- (i) the Bluestone Ground extension under the Western Open Pit.
- (ii) the hanging wall lodes equivalent to the western extension of the Great Lode of the Blackrock and Clay Shaft Lodes.
- (iii) the southern limite (Footwall) of the Silurian shales between the northern and southern felsites.

(iv) / ...

- (iv) the southern limit (footwall) of the southern felsite for the occurrence of bluestone or other lodes.

This hole will also give information concerning the possible western extension of the bluestone area through the Coronation zone. Further drilling will be based on the success of this hole.

b) Footage - Western Open Pit

One (1) hole 2000 in length.

Total Footage of Drilling in Stage 1

Morfa-du area	3800 feet
Coronation zone	2000 feet
Western Open Pit	<u>2000</u> feet
	<u>7300</u> feet

3. Core Logging - Splitting - Assaying

A core logging shack has been erected on the property in anticipation of the inclement weather normal to this area. Two additional core storage sheds have been constructed. A core splitting shed has been set up and organized. Arrangements have been made with Alfred H. Knight Limited, of 18 Church Road, Seacombe, Wallasey, Cheshire, U.K. to carry out analyses for copper, lead, zinc, silver and gold. Their laboratory located in Cheshire (approximately a 2 hour drive) will facilitate and expedite assay returns. Knights have their own pick-up service for core collection. Check samples will be run at Daniel C. Griffith & Co. Ltd., of 5-7 Dysart Street, London E.C. 2A 2BX, England.

4. Staffing

Dr. Robert Batey will be the Resident Geologist at Amlwch during the period of this program. He will be residing at the Dinorben Arms Hotel in Amlwch, telephone number 830-230 (Holyhead). The Intermine office is located at Pentre Gwian, telephone number 830-614 (Holyhead). Dr. Batey will be assisted by Dr. Jose Serrano.

TABLE 1

ESTIMATED COST OF THE WORK PROGRAMME FOR PARYS/MONA PROJECT,  
ANGLESEY, N.W. WALES, STAGE 1

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1. <u>Diamond Drilling</u>	
7,800 feet of drilling at £4.40 per foot	£34,320.00
2. <u>Analysis of Drill Core</u>	
280 samples for lead, zinc, copper, silver and gold	£ 2,200.00
3. Core Shack and Core Boxes	£ 600.00
4. Salaries plus living expenses	£ 9,600.00
5. <u>Office at Parys/Mona:</u>	
Heating, rent, telephone calls, etc.	£ 2,400.00
6. Hire of 1 Land Rover plus running expenses	£ 800.00
7. Central office overhead in London	£ 900.00
	<u>£50,820.00</u>

Compilation of Estimates

1. Based on written estimate from Canadian Longyear Drilling Company Limited.
2. Written estimate Alfred H. Knight Limited, Assayers and Samplers of Wallosey, Cheshire.
3. Estimate from local contractor in Anglesey.
4. Estimate from Interline Limited.
5. Estimate from Interline Limited.
6. Estimate from car-hire company.
7. Estimate from Noranda-Kerr Limited.



## DIAMOND DRILL LOG

HOLE NO. IM-1PROPERTY PARYS MOUNTAIN (MORFA-DU)

Tests

Elevation _____		Bearing <u>160°</u>		Depth	Bearing	Dip
Location <u>Morfa Du</u>		Dip <u>-60°</u>		490	Dip Test	61°
Started <u>22/9/71</u>		Finished <u>27/9/71</u>				
Final Depth <u>498'6"</u>		Casing _____				
Core Size <u>BQ</u>		Driller <u>Rene Jervais</u>				
From	To	Length	Recovery	Description		
0'0"	35'0"			No Recovery		
35'0"	45'0"	10'0"	0'06"	Black shale frags.		
45'0"	52'0"	7'0"	0'02"	Gossan and shale frags.		
52'0"	66'0"	14'0"	1'00"	Shale frags.		
66'0"	76'0"	10'0"	4'0"	Black shale frags. with weak sulph. vns. and strgs.		
76'0"	82'0"	6'0"	0'06"	Shale frags.		
82'0"	86'0"	4'0"	100%	Black cleaved shale with ramifying vns of sulph. - weak.		
86'0"	93'0"	7'0"	5'6"	Greywacke or dolerite - Greenstone?		
93'0"	106'0"	13'0'	100%	Black cleaved shale with irreg. qtz. bands, patches of carbonate. Ramifying vnlts. & strgs. of weak py. (some confused measuring)		
106'0"	111'0"	5'0"	100%	Massive black shale, some cleavage but large irreg. qtz. masses, some carbonate. Py. strgs. very weak.		
111'0"	124'0"	13'0"	100%	Well cleaved black shale. Some qtz. bands parallel to cleavage. Shale somewhat fragmental. Ramifying strgs. of py., generally weak.		
124'0"	129'0"	5'0"	100%	Core angle <u>35°</u> Black shale, cleaved, weak py. strgs, massive white qtz. patches.		

DIAMOND DRILL LOGHOLE NO. IM-1PROPERTY PARYS MOUNTAIN (MOREA-DU)

From	To	Length	Recovery	Description
129'0"	131'0"	2'0"	100%	Greenish greywacke or dolerite, qtz. bands
131'0"	183'0"	52'0"	100%	Black cleaved shales, apparently disrupted with irreg. ramifying strgs. of py., very occas. blebs of cpy. Irreg. qtz.
183'0"	191'0"	8'0"	100%	Highly silic., prob. rhyolite tuff. Many strgs., blebs & patches of fine grained py., some ga. poss. cpy.
191'0"	215'0"	24'0"	100%	Blue-black shale, frag. or disrupted ramifying strgs. of py., qtz. Grey masses & vns. of qtz. with py. and occas. cpy or ga.
215'0"	221'0"	6'0"	100%	Highly quartzose, speckled shale. Qtz. of vn. type. Some strong sulph. in irreg. ramifying masses, vns., strgs. py-cpy-ga.
221'0"	226'6"	5'6"	100%	As above with increase of sulph. Massive sections occas. up to 2.5'. Sulph. fine grained - py-cpy-ga. Sulph. 50% of core - Bluestone
226'6"	402'0"	76'0"	100%	Blue-black shale, frag. or disrupted, irreg. qtz. brec. vns. with py. Py. also in ramifying strgs. & vns. with some cpy & ga. Rich sulph. zones - 276'-286' (4" at 285') 316'-326' (Sulph. 20% of core) 326'-336' (Bluestone patches) 346'-356' (Bluestone patches)
402'0"	409'0"	7'0"	100%	Greenish-grey somewhat frag. felsite or rhyolite - prob. lava.
409'0"	422'0"	13'0"	100%	Blue-black shale, frag. or disrupted bands of frag. rhyolite. Blebs of sulph. occas. strgs. & blebs in shale fraction as well.
422'0"	427'0"	5'	100%	Cherty felsite or rhyolite. Poss. brecc. with weak strgs. of py.

DIAMOND DRILL LOGHOLE NO. IM-1PROPERTY PARYS MOUNTAIN (MORFA-DU)

From	To	Length	Recovery	Description
427'0"	436'0"	9'0"	100%	Blue-black shale, frag. or disrupted alternating with acid frag. lavas. Some patches of fine grained sulph. (py) in shale. Strgs., blebs & dissem. py. in acid frag. sections.
436'0"	453'0"	17'0"	100%	Highly silic. cherty rhyolite with frag. zones. Occas. blebs & strgs. py. Talcose after 450' Latter portion barren
453'0"	480'0"	27'	100%	Silic. or cherty grey rhyolite with frag. zones, occas. strgs. blebs of sulph. (mainly py, occas. ga.) Irreg. qtz.
480'0"	498'6"	18'6"		Massive hard grey-white rhyolite with greenish talcose zones. Some porphyritic zones. Occas. tuffaceous, no apparent sulph. Presumed barren FW rhyolite
				END OF HOLE

PROPERTY PARYS MOUNTAIN (Morfa Du)

SAMPLE NO	FROM	TO	Recovered LENGTH	ASSAYS					DESCRIPTION
				%Cu	%Pb	%Zn	*Ag	*Au	
1501	172' 0"	183' 0"	11' 0"	0.02	0.16	0.34	8.50		Blue-black sh., cleaved and frag. Very f. strgs. & vns. of py.
1502	183' 0"	191' 0"	8' 0"	0.03	0.14	0.28	26.90		Highly silic. fel. - rhy. tuff? Numerous strgs., blebs, patches f.g. sulph. mainly py., gal., poss. cp.
1503	191' 0"	206' 0"	15' 0"	0.03	0.07	0.18	6.40		Blue-black frag. sh. with irreg. brecc. qtz. vns., blebs ramifying strgs., vns. sulph. (py.)
1504	206' 0"	210' 0"	4' 0"	0.43	1.40	0.47	65.60		Blue-black sh., frag., ramifying strgs. qtz., py. Irreg. masses, vns. qtz. with py., cp. & occas. Pb (galena)
1505	210' 0"	215' 0"	5' 0"	0.03	0.17	0.35	6.30		Blue-black sh., frag., ramifying strgs., vns. of qtz., py. f.g.
1506	215' 0"	221' 0"	6' 0"	0.50	2.00	5.60	57.50	0.15	Highly quartzose, speckled, some blue-black sh. Qtz. shows banded agate struct. Strong f.g. sulph. in irreg. ramifying masses, vns., strgs. Py with cp. or gal.
1507	221' 0"	226' 6"	5' 6"	0.85	6.80	10.00	83.65	0.30	As above with incr. in sulph. Mas. sects. up to 2½". Sulph, f.g. py., cp. & weaker gal., Sulph. 50% or more Blust. ore
1508	226' 6"	236' 0"	9' 6"	0.04	0.28	0.68	8.15		Blue-black sh., frag., irreg. brecc. qtz. vns. with py. Py. in ramifying strgs., vns. also. Occas. blebs gal., weak cp.

\*Grams/1000 Kil.

SAMPLE RECORDHOLE NO. IM-1PROPERTY PARYS MOUNTAIN (Morfa Du)

SAMPLE NO	FROM	TO	Recovered LENGTH	ASSAYS					DESCRIPTION
				Cu	Pb	Zn	Ag		
1509	236' 0"	246' 0"	10' 0"	0.04	0.12	0.08	1.75		Blue-black sh., frag., some cleavage. Irreg. patches of py., qtz. at time aligned to cleavage. Weaker strgs., vns. py. throughout
1510	246' 0"	256' 0"	10' 0"	0.03	0.45	0.42	5.10		Blue-black sh., frag. with irreg. qtz. brecc. masses with f.g. sulph. (py., cp., pb.). Ramifying vns., f.g. py.
1511	256' 0"	266' 0"	10' 0"	0.03	0.19	0.30	5.70		Blue-black sh., frag. with strgs. of py. & irreg. qtz. vns., massive sulph (mainly py) from 259-260'
1512	266' 0"	276' 0"	10' 0"	0.05	0.42	0.57	12.05		Blue-black sh., with irreg. qtz. vns. Some brecc. contouring py., specks cp. or gal. Ramifying f.g. py. throughout
1513	276' 0"	286' 0"	10' 0"	0.12	0.64	0.92	5.10		Blue-black sh., frag. Irreg. qtz. brecc. masses containing py., cp., gal. 276-286', 4" @ 285'. Ramifying f.g. py. vns. strgs. qtz. vns.
1514	286' 0"	306' 0"	20' 0"	0.04	0.16	0.21	Tr		Blue-black sh., frag., occas. irreg. qtz. vns. some breccia (weak). Ramifying vns. strgs. of py., some cp., pb. in qtz. brecc.
1515	306' 0"	316' 0"	10' 0"	0.08	0.44	0.48	5.95		Blue-black sh., frag., occas. qtz. vns. few strgs. of f.g. py. Irreg. patches brecc. qtz. with cp., gal. & py.
1516	316' 0"	326' 0"	10' 0"	0.04	0.28	0.42	5.15		Blue-black sh., with sporadic qtz. masses Irreg. qtz. brecc. masses make up 20% of ore & contain py. with some cp. or pb.

PROPERTY PARYS MOUNTAIN (Morfa Du)

SAMPLE NO	FROM	TO	Recovered LENGTH	ASSAYS					DESCRIPTION
				Cu	Pb	Zn	Ag		
1517	326' 0"	336' 0"	10' 0"	0.08	1.90	2.10	6.00		Blue-black sh. with sporadic qtz. irreg. strgs. py., patches of f.g. sulph., gal., cp., py. - "Bluestone". Some brecc. qtz
1518	336' 0"	346' 0"	10' 0"	0.02	0.27	0.68	3.55		Blue-black sh., frag. ramifying vns. py. throughout. Occas. qtz. brecc. vns. containing py., weak cp., weak cp. pb.
1519	346' 0"	356' 0"	10' 0"	0.19	2.60	3.50	28.30		Blue-black sh. frag. with masses & patches speckled qtz. rich Bluestone. Ground (40%). Sh. contains strgs., vns. blebs of py. Qtz. rich ground, massive dissem. of py., some cp., strong gal. with poss. sphalerite
1520	356' 0"	386' 0"	30' 0"	0.05	0.27	0.48	Tr		Blue-black sh., frag., with irreg. qtz. vns., ramifying strgs. vnls. of sulph. (py.) Occas. patches of f.g. sulph.
1521	386' 0"	402' 0"	16' 0"	0.03	0.17	0.25	Tr		Mainly py. Blue-black sh. with irreg. qtz. strgs. & vns. Some patches of qtz./sh. brecc. with sulph. (py/gal) Ramifying vns. fine py.
1522	402' 0"	409' 0"	7' 0"	0.01	0.03	0.04	1.15		Greenish-grey somewhat frag. felsite Prob. rhyolitic lavas.
1523	409' 0"	422' 0"	13' 0"	0.01	0.04	0.04	2.45		Blue-black sh., frag. occas. bands of frag. felsite with blebs of sulph. Some strgs., Occas. strgs., blebs sulph. (py.) in shale portion

SAMPLE RECORDHOLE NO. IM-1PROPERTY PARYS MOUNTAIN (Morfa Du)

SAMPLE NO	FROM	TO	Recovered LENGTH	ASSAYS					DESCRIPTION
				Cu	Pb	Zn	Ag		
1524	422' 0"	427' 0"	5' 0"	0.01	0.02	0.05	1.30		Cherty felsite or rhyolite. Poss. brecc. weak strgs. py.
1525	427' 0"	436' 0"	9' 0"	0.01	0.02	0.02	9.60		Blue-black sh., frag. & frag. series. Some patches f. sulph. (py.) in sh. Strgs. blebs, dissem. in the acid frag. section (mainly py)
1526	436' 0"	446' 0"	10' 0"	0.01	0.02	0.05	16.65		Highly silic., cherty felsite with frag. zones. Occas. blebs & strgs. of py.
1527	446' 0"	453' 0"	7' 0"	0.01	0.05	0.21	7.20		As above becoming green and talcose after 450'. Latter section barren.
1528	453' 0"	466' 0"	13' 0"	0.01	0.02	0.08	4.70		Silic. frag. grey felsite. Numerous strgs., blebs, bands py. Occas. specks & streaks of gal.
1529	466' 0"	475' 0"	9' 0"	0.01	0.02	0.02	2.25		Grey cherty acid frag. with strgs., vns. blebs py. Some irreg. qtz. blebs & patches.
1530	475' 0"	480' 0"	5' 0"	0.01	0.03	0.02	1.50		Dk. grey acid frag. Highly silic. occas. qtz. blebs. F.g. py. interstitially.
1531	480' 0"	486' 0"	6' 0"	0.01	0.02	0.03	27.50		Hard greyish-white felsite or rhyolitic with greenish talcose zones. Poss. porph. irreg. qtz. No apparent sulph. Presumed barren FW felsite

## ALFRED H. KNIGHT LTD

Daybook No. 494562

TO: INTERMINE LIMITED

SPLIT DIAMOND DRILL CORE

SAMPLE NO:	Cu. %	Pb. %	Zn. %	Ag. g/1000 K.		
1501	0.02	0.16	0.34	8.50		
1502	0.03	0.14	0.28	26.90		
1503	0.03	0.07	0.18	6.40		
1504	0.43	1.4	0.47	65.60		
1505	0.03	0.17	0.35	6.30		
1506	0.50	2.0	5.6	57.50		
1507	0.85	6.8	10% approx.	83.65		
1508	0.04	0.28	0.68	8.15		
1509	0.04	0.12	0.08	1.75		
1510	0.03	0.45	0.42	5.10		
1511	0.03	0.19	0.30	5.70		
1512	0.05	0.42	0.57	12.05		
1513	0.12	0.64	0.92	5.10		
1514	0.04	0.16	0.21	Trace		
1515	0.03	0.44	0.48	5.95		
1516	0.04	0.28	0.42	5.15		
1517	0.03	1.9	2.1	6.00		
1518	0.02	0.27	0.68	3.55		
1519	0.19	2.6	3.5	28.30		
1520	0.05	0.27	0.43	Trace		
1521	0.03	0.17	0.25	Trace		
1522	< 0.01	0.03	0.04	1.15		
1523	< 0.01	0.04	0.04	2.45		
1524	0.01	0.02	0.05	1.30		
1525	0.01	0.02	0.02	9.60		
1526	< 0.01	0.02	0.05	16.65		
1527	< 0.01	0.05	0.21	7.20		
1528	< 0.01	0.02	0.08	4.70		
1529	< 0.01	0.02	0.02	2.25		
1530	< 0.01	0.03	0.02	1.50		
1531	< 0.01	0.02	0.03	27.50		
	0.17 g/1000 K.					
1506	0.30 g/1000 K.					
1507						

Yours faithfully,

ALFRED H. KNIGHT LTD.



# DIAMOND DRILL LOG

HOLE NO. IM-3

PROPERTY PARYS MOUNTAIN (MORFA-DU)

Tests

<u>Elevation</u>		<u>Bearing</u> 170°		<u>Depth</u> 446' 680'	<u>Bearing</u> 152° (T) Dip Test Only	<u>Dip</u> 60° 59°
<u>Location</u> Engine Shaft		<u>Dip</u> -60°				
<u>Started</u> 28/9/71		<u>Finished</u> 5/10/71				
<u>Final Depth</u> 723'		<u>Casing</u>				
<u>Core Size</u> BQ		<u>Driller</u> Rene Gervais				
From	To	Length	Core Angle	Description		
0'0"	60'0"	60'		No Core - Casing		
60'0"	70'0"	10'		Alt., broken well cleaved black shales with irreg. qtz. masses.		
70'0"	118'0"	48'		Well cleaved massive black shale, somewhat graphitic or finely banded - bedding (?). Some talcose partings.		
118'0"	152'0"	34'		Cleaved graphitic shales, showing signs of fracturing & contortion shattering, some sheared zones with broken core.		
152'0"	168'0"	16'		Cleaved carbonaceous or graphitic shales with original banding of shales much disturbed. Core broken and at times fragmented. Some qtz. Core loss of about 3'0"		
168'0"	198'0"	30'	70° 90°	Finely banded phyllitic , carb. or graph. shales, fine qtz. strgs., some irreg. blebs, streaks of greenish talc.		
198'0"	215'0"	17'	60°	Core loss 5'6" between 202'-213' Finely bedded phyllitic carb. graph. shales, talcose streaks, blebs, weak irreg. qtz.		
215'0"	244'0"	29'	40°	2' lost. Massive black graph. or carb. shale, some carb. vns., occas. talc, some gritty bands, well cleaved. Some zones of fractured core.		

DIAMOND DRILL LOG  
=====HOLE NO. IM-3PROPERTY PARYS MOUNTAIN (MORFA-DU)

From	To	Length	Core Angle	Description
244'0"	292'0"	48'	30°	Well cleaved, finely banded carb. or garph. shales. Irreg. white qtz. strgs. & patches, some carbonate, some talc
292'0"	308'0"	16'	40°	Well cleaved, carb. or graph. shales with irreg. strgs. & blebs of qtz., carb. talc. Very occas. blebs of py. coarsely crystalline in part. Core shows prob. earlier fragmentation of shale
308'0"	326'0"	18'		As above, except cleavage becomes irreg. & banding completely obscured. Core eventually becomes massive, small shear zones
326'0"	355'0"	29'		Fine grained graph. or carb. shales with strg. qtz. carb. bands. Banding seen but disoriented due to fine shearing or consolidation disruption. Core less variable.
355'0"	382'0"	27'		Black fine grained carb. graph. shales with irreg. qtz. often massive. Core more broken and sheared. Core still shows signs of disruption of bedding or cleavage. Occas. massive patches fine grained sulph. (py). Some talc. Some small core loss
382'0"	396'0"	14'		Massive black carb. mudstone, little sign of well marked banding or cleavage. Apparently contorted (consolidation?). Occas. zones of fine contorted banding.
396'0"	410'0"	14'		Massive as above occas. finely banded zones showing contortion. Weak blebs of fine grained py. occas. seen.
410'0"	430'0"	20'	45°	Black carb. or graph. shales frag. with some orientation of components. Irreg. strgs. blebs of carb. qtz. talc. Occas. blebs of fine grained py.
430'0"	436'0"	6'		As above more cleaved and broken
436'0"	442'0"	6'		As above, fragmental recovery (1'0")

# DIAMOND DRILL LOG

=====

HOLE NO. IM-3PROPERTY PARYS MOUNTAIN (MORFA-DU)

From	To	Length	Core Angle	Description
442'0"	447'0"	5'		Black carb. graph. shales cleaved fine qtz. strgs. occas. but of fine grained sulph. not parallel to cleavage.
447'0"	466'0"	19'		Core loss over 5'. Core broken and frag. prob. sheared, much irreg. massive qtz. in black carb. graph. phyllitic shale, much clay gouge 456-562', weak pyritic sulph. very occas., some ga.
466'0"	481'0"	15'		Black cleaved, graph. or carb. phyllitic shales Cleavage angle paral el to core axis. Irreg. qtz. patches or bands. Few beds fine grained py.
481'0"	486'0"	5'		Mainly massive while qtz. and black shale frag. cleavage less than 50°
486'0"	489'0"	3'		Black phyllitic shale with irreg. qtz.
489'0"	506'0"	17'		50% recovery of black phyllitic shale fragments with irreg. qtz.
506'0"	540'0"	34'		Black graph. or carb. phyllitic shales. Finely banded with considerable distortion cleavage angle variable. Take patches, some carbonate occas. blebs of py. infrequently
540'0"	550'0"	10'		As above more broken core
550'0"	566'0"	16'		Black carb. phyllitic (graphitic) shales occas. talc, sporadic blebs fine grained sulph. (py)
566'0"	600'0"	34'	35°	More broken core of black carb./graph. shales, well cleaved, some blebs of talc. 12' of core lost
600'0"	618'0"	18'		3' core loss, as above, some irreg. qtz. Massive fine grained sulph (2") at about 606'
618'0"	646'0"	28'	60°	More compact massive black carb. or graph. shale, occas. irreg. qtz. Shear zones at times throughout. 3' of core lost. Occas. blebs massive sulph, talc in blebs and strgs.

DIAMOND DRILL LOG  
=====HOLE NO. IM-3PROPERTY PARYS MOUNTAIN (MORFA DU)

From	To	Length	Core Angle	Description
646'0"	654'0"	8'		
654'0"	658'0"	4'		Finely banded black phyllitic shales, occas. qtz. 654'6" - 655'2". Massive fine grained py.
658'0"	676'0"	18'		Black carb. graph. phyllitic shales finely banded. Core loss about 2'0"
676'0"	682'0"	6'	50°	As above becoming more fractured, some 2-3' of core lost
682'0"	695'0"	13'		5'6" recovered out of 13' - recovery poor. Black cleaved, broken shales, some qtz.
695'0"	702'0"	7'	55°	Black well cleaved, fine'y banded phyllitic shales, some qtz.
	723'0"			HOLE ABANDONED

## DIAMOND DRILL LOG

HOLE NO. IM-5

PROPERTY PARYS MOUNTAIN (MORFA DU)

Tests

Elevation		Bearing		Depth	Bearing	Dip
Location Chapel Shaft		Dip		426'	154°	49°
Started 13/10/71		Finished 18/10/71		791'	155½°	44°
Final Depth 791'		Casing				
Core Size BQ		Driller Rene Gervais				
From	To	Length	Recovery	Description		
0'0"	42'0"			No Recovery		
42'0"	76'0"	34'	100%	Greenish-grey highly silicified rhyolite, fragmental in part, banded at times, "spherulitic" sections, limonite zones - cavities.		
76'0"	126'0"	50'	100%	Grey-green fine grained highly silic. fine tuff or rhyolite. Limonitic fractures. Some vague fragmentations & banding. Sporadic Qtzose zones. Black cherty mudstone in occas. bands & weak dissem. sulph.		
126'0"	148'6"	22'6"	95%	Banded fine grained rhyolite or silicified tuff & silic. frags. Talcose (chlorite/muscovite sericite) partings. No apparent sulph. Qtz. strgs.		
148'6"	190'0"	41'6"	95%	Grey uniform massive gritty silic. tuff (?). Occas. Qtz. strgs. Poss. sill or dyke. Cherty and very fine grained at lower contact with the shales (4")		
190'0"	226'0"	36'0"	100% Approx	Somewhat fractured recovery of dense black mudstone with irreg. ramifying Qtz. strgs. & blebs. Sulphide (py) in strgs & blebs sporadically.		
226'0"		7'0"	55%	Dense black-blue mudstone, fractured massive dissem. py. in most of core, blebs, strgs. Some weak. Cpy.		
233'0"	246'0"	13'	95%	Black, massive mudstone with occas. Qtz. strgs., blebs. Fractured at times. Qtzose zones reticulated masses, weak strgs., blebs of sulph.		

DIAMOND DRILL LOG  
=====HOLE NO. 1M-5PROPERTY PARYS MOUNTAIN (CHAPEL)

From	To	Length	Recovery	Core Angle	Description
246'0"	302'0"	56'	100%	85° 45%	Dense black mudstone vaguely banded, occas. blebs of py. scattered throughout, cleavage becomes apparent later, phyllitic and begins to show signs of disruption. Qtz. very sparse.
302'0"	307'0"	5'	100%		Mainly massive white qtz. with shale frags. & black shale with reticulated qtz. strgs. Broken core. Weak py.
307'0"	313'0"	6'	40%		Grey-black shale frags. & shale gouge, prob. fault zone
313'0"	334'0"	21'	100%	45°	Finely banded grey and black shale, some shear zones with broken core, sporadic irreg. qtz. Weak blebs & strgs of py., usually fine grained.
334'0"	394'0"	60'	100%	40° 80° 40°	Blue-black fine phyllitic carb. shales, finely banded, banding variable, contorted or disrupted. Sporadic qtz., some chlorite blebs Sulph. in scatt. blebs or strgs., generally py. Occas. strong dissem. sulph.
394'0"	396'0"	2'	100%	40°	Banded grey & black shales with strong dissem. of fine grained sulph.
396'0"	446'0"	50'	100%	Var.	Blue-black fine phyllitic shale, banded at times, otherwise massive. Chloritic strgs. Sulph. very sporadic - blebs fine grained py. Bedding variable often contorted. Shear zones occas.
446'0"	463'0"	17'	90%	Var.	Core more broken. Black-grey carb. phyllitic shales. Sulphide very weak.
463'0"	491'0"	28'	100%	Var. 0-90°	Banded, occas. sheared black & grey shales. Phyllitic. Very poor sulph.
491'0"	514'0"	23'	100%	Var.	Massive black mudstone, occas. large blebs up to 1" diameter of fine grained py.

DIAMOND DRILL LOG  
=====HOLE NO. IM-5PROPERTY PARYS MOUNTAIN (CHAPEL)

From	To	Length	Recovery	Core Angle	Description
514'0"	524'0"	10'	90%	55°	Black-grey banded phyllitic shales or mudstones. Massive sulph. (fine grained py) in bands - Azufrom type. Py. about 12% of core
524'0"	530'0"	6'	100%		Massive black mudstone or shale, sheared at times. Flecks of chlorite strgs.
530'0"	540'0"	10'	90%	35°	Black-grey carb. shales, finely banded. Weak blebs and patches of py.
540'0"	562'0"	22'	90%		Black mudstones or shales core much broken occas. massive qtz. bands, prob. sheared
562'0"	652'0"	90'	90%		Black-grey very fine grained phyllitic shales or mudstones. Prob. carb. Shales more or less uniformly finely banded throughout. Scattered blebs (up to 1") of very fine grained py.
652'	665'	13'	80%		Sheared frag. recovery of dense black phyllitic carb. shales. Vaguely banded at times.
665'0"	722'0"	57'	90%	35°	Black dense carb. phyllitic shales, occas. blebs of fine grained py. Weak banding occas. seen
722'0"	746'0"	24'	100%		Dense black phyllitic shales as above, fine grained py. in large blebs & patches, scattered throughout the core
746'0"	766'0"	20'	100%	30°	Grey and black shale, frag. or breccia zones. Generally becoming greyer and more silic. (ie harder). Sulphide in scattered small blebs & concentrations. Some massive irreg. qtz. masses & strgs. sporadically.
766'0"	770'0"	4'	100%	40°	Black-grey phyllitic shales & massive irreg. qtz. zones, bands, strgs.

DIAMOND DRILL LOGHOLE NO. IM-5PROPERTY PARYS MOUNTAIN (CHAPEL)

From	To	Length	Recovery	Core Angle	Description
770'0"	776'0"	6'	50%		Fault Zone. Shale frag. & gouge.
776'0"	791'0"	15'	60%		Black & grey banded shale. Recovery often fragmental or gouge. Some irreg. qtz.
					END OF HOLE



## DIAMOND DRILL LOG

HOLE NO. IM-6PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

## Tests

Elevation	Bearing	155°	Depth	Bearing	Dip
Location Bluestone Shaft	Dip	-65°	500'	164°	61°
Started September 22/71	Finished	October 26/71	750'	160°	59°
Final Depth 1816'	Casing		1000'	158½°	60°
Core Size BQ	Driller	Gervais	Dip Test @		
			1315'		58°
			1600'		58°
			1810'		58°

From	To	Description
0' 0"	79' 9"	Casing - No recovery
79' 9"	94' 0"	Grey silicified felsite or rhyolite with occasional thin bands of fine grained pyrite and galena. Some talcose partings 6" clay gouge at 93.6'
94' 0"	104' 0"	5'2" recovered weathered banded quartzose rhyolite or rhyolitic tuff, with many cavities, mud zones weak stringers and veins of fine grained pyrite
104' 0"	120' 0"	As above with clay gouge 104-105' & 109' 6" - 110' 9" 120' Altered banded, somewhat porphyritic tuffaceous
120' 0"	135' 0"	Massive grey silicified rhyolite fine scattered disseminations of sulphide (py). Occasional talcose bands
135' 0"	138' 0"	Shattered white felsite with clay gouge. 2' recovered
138' 0"	147' 0"	Dark grey tuffaceous rhyolite talcose bands. Weak stringers pyrite.
147' 0"	186' 0"	Massive grey/dark rhyolitic lavas with occasional tuffaceous zones, disseminations and blebs of fine sulphide probably py., cpy.
186' 0"	212' 6"	Probably massive, banded talcose rhyolitic tuff with fine sulphide disseminations and stringers parallel to lineation.
212' 6"	295' 0"	Fragmental rhyolite with talcose bands, tuffaceous zones, irregular bands and patches py. (½") often interstitial. Rhyolite, pale, often quartzose. At 286', 4" band pyritic sulphide.

## DIAMOND DRILL LOG

HOLE NO. IM-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

From	To	Description
295'0"	345'0"	Massive and fragmented rhyolite with talcose partings, fine grained pyritic present in blebs and stringers throughout. Generally interesting. Dark Grey
345'0"	389'0"	Less well banded. Possible massive silicified tuffs, occasional stringers, patches sulphide mainly py., occasionally fragmented. Occasional patches cpy./py.
389'0"	405'0"	More massive pale rhyolite with irregular quartz patches or stringers. Highly silicified. Talcose partings. Massive py. (azufron type) 400'6" - 401'3"
405'0"	448'0"	Massive silicified tuffaceous rhyolite, pale-white shaly patches with azufron type py. 411-412'. Otherwise stringers or disseminated sulphide sporadically throughout
448'0"	473'0"	Recovery 15'6". Fractured recovery of white or pale grey massive rhyolite. Irregular patches of py. sporadically - weak.
473'0"	505'0"	More tuffaceous greenish talcose rhyolites. Still well silicified at times pale-whitish irregular zone scattered sulphide disseminations (py). Azufron type py. with about 10% cpy. 500-501'
505'0"	517'0"	Pale grey white massive rhyolite with irregular patches of sulphide blebs disseminated (py, cpy) At 509', 4" py. & ga. Somewhat banded.
517'0"	526'0"	Massive tuffaceous rhyolite, highly silicified. Scattered disseminated sulphide. Massive 1" cpy., py. at 518'
526'0"	531'0"	Cherty rhyolite possibly fragmental in part containing irregular massive sulphide (30% sulphide). Sulphide, py., and subordinate cpy.
531'0"	559'0"	Massive pale rhyolite, speckled blebs disseminated sulphide, occasional patches py, cpy. - weak
559'0"	569'0"	Massive pale rhyolite with bands reticulated masses of sulphide bands 1" or more, py. frequently.
569'0"	578'0"	Massive greenish gray rhyolite, few bands sulphide. Possibly acid fragmental

## DIAMOND DRILL LOG

HOLE NO. IM-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

From	To	Description
578'0"	585'0"	1" core lost. Fragmented white rhyolite with interstitial massive py. with some cpy. Total sulphide less than 10%
585'0"	645'0"	Variable rhyolite lavas with more greenish probably tuffaceous zones. Other zones pale, white, more cherty & quartzose. Highly silicified throughout. Occasional weak py bands.
645'0"	662'0"	Variable grey grey-blue cherty highly silicified rhyolites
662'0"	671'0"	Blue-grey cherty rhyolites, highly silicified, zones of azufon type py irregularly, often soft making up 20% of core.
671'0"	680'0"	Pale greenish-grey silicified rhyolite with few weak bands of py.
680'0"	712'0"	Greenish cherty or fragmental rhyolite, fragments often with sulphide. Patches sulphide occasionally containing py, cpy & occasional ga. 693'6" (6"), 703'6" - 704'6" (12")
712'0"	735'0"	Grey-greenish rhyolites highly silicified at times fragmented, weak bands, stringers sulphide (py)
735'0"	753'0"	Pale-white quartzose rhyolite altered, occasionally kaolinized. Massive sulphide (py with sub cpy & ga) 743'6" - 745'0". Massive sulphide azufon type mostly py. 749' - 750'6". Total sulphide 10%.
753'0"	763'0"	Highly silicified rhyolite or rhyolitic lavas. 761-765' patches of massive sulphide with py or py/cpy (10-15% core)
763'0"	770'6"	Possibly more quartzose or fragmental rhyolitic lavas. Disseminated and irregular patches or masses of sulphide Cherty in part, more sulphides after 767' - say +10% py/cpy
770'6"	840'0"	Pale grey-white fine grained cherty rhyolite. Somewhat fragmented in part (similar to Open Pit). Sulphide present (py, cpy) highly irregular in blebs, disseminations, patches, bands throughout (less than 10% sulphides)
804'0"	814'0"	<b>Greenstone</b> - Basic tuff, altered dolerite passing to shaly talcose tuff, after 2' then to massive green talc rock with shaly bands.

## DIAMOND DRILL LOG

HOLE NO. IM-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

From	To	Description
814'0"	833'0"	Banded, massive silicified felsite or rhyolite with talcose patches alternating with cherty zones.
833'0"	840'0"	Shaly, talcose tuff? with bands of crystal tuff.
840'0"	847'0"	Massive whitish rhyolite with large zones of talc irregularly distributed. Minute disseminated sulphide in talcose patches
847'0"	855'0"	Talcose tuff - greenish soft or talcose rhyolite, sometimes sheared.
855'0"	866'0"	Talcose or silicified rhyolite alternating, some sporadic massive sulphide mostly pyrite. 7' of core lost.
866'0"	873'0"	Cherty rhyolite to 868', thereafter very fine grained white chert, some blebs sulphide. Fine grained disseminated streaks of py. & ga. - weak. 3' core lost.
873'0"	878'0"	Cherty grey rhyolite, sometimes greenish, broken core
878'0"	886'0"	Fine grained grey chert for 12", thereafter irregular chert zones in black shale or tuff, sporadic blebs & stringers of py., becoming more cherty.
886'0"	897'0"	Silicified fine grained grey rhyolite, strong becoming more fragmental after 889-891', thereafter strong to end.
897'0"	906'0"	Irregular fragmental rhyolite silicified
906'0"	917'0"	Fragmental rhyolite but fragments cherty with some irregular sulphide in bands, blebs - generally weak
917'0"	927'0"	Dark greenish chloritized fragmental lava?/shale with disseminated pyrite. Irregular bands or filled cavities containing "agate" banded quartz with cpy. Probably this rock type called earlier workers
927'0"	931'0"	1" recovered of the greenish fragmental rhyolite as above old working or fault?
931'0"	945'0"	Cherty grey-grey green fragmental rhyolite. 2' of core lost
945'0"	951'0"	Chert and shale fragmental with talcose patches. Little or no sulphide

DIAMOND DRILL LOG  
=====HOLE NO. IM-6PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

From	To	Description
951'0"	959'6"	Rhyolite fragmental
959'6"	961'6"	Black massive mudstone or shale with py. blebs. Somewhat silicified or indurated
961'6"	979'0"	Rhyolite fragmental often very fine grained, some talc. Shale as above with sulphide 971-974' and 976-977' Sheared at 979'
979'0"	985'0"	Soft talcose shaley tuff. Core much broken & shattered. Apparently complete recovery.
985'0"	997'6"	9' recovered from this zone. Brecciated recovery of cherty fragmental with soft clayey zones. Some interstitial fine grained sulphide.
997'6"	1003'0"	Cherty rhyolite fragmental vuggy patches with py. generally weak
1003'0"	1014'0"	Variable mudstone, greenish silicified tuff and cherty tuff alternating rapidly. Considerable py. in the black mudstone portions, at times massive, generally mineralization poor.
1014'0"	1041'0"	Greenish cherts, fragmental alternating with bands of chert, black mudstone and shale. Core broken at times. Sulphide mainly py. in blebs and patches with shale and mudstone portions. 4-5' of core lost.
1041'0"	1055'0"	As above. Cherty fragmental portion predominating, Sulphide correspondingly weaker.
1055'0"	1057'0"	Mainly shaly tuff, mudstone with blebs and patches throughout.

DIAMOND DRILL LOG  
=====HOLE NO. IM-6PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

From	To	Length	Recovery	Core Angle	Description
1057'0"	1064'6"	7'6"	80%	42° 40-45°	Greenish-black mudstone and silic. mudstone. Py. sulph. in dissem., blebs & occas. patches. Generally poor.
1064'6"	1080'0"	15'6"	100%		Generally pale grey, green cherty fragmental rhyolite, occas. bands of black-green gritty or mudstone material with sulph, min. weak
1080'0"	1088'0"	8'	100%		Grey fine grained cherty or cherty lava, some black mudstone patches (ore somewhat broken)
1088'0"	1095'0"	7'	100%		Fine grained banded grey chert, irreg. qtz. strgs. & patches. From the banding the hole appears to be going up the section.
1095'0"	1102'0"	7'	100%		White, grey, grey-green chert. Some carb. mudstone sporadically. Massive py. sulph. at times making up 30% of core. Poss. weak cpy.
1102'0"	1106'0"	4'	100%		Grey cherty frag. rhyolite
1106'0"	1125'0"	19'	100%		Grey-green cherty frag. with zones of black argillaceous mudstone carrying blebs & patches of sulph (py). Otherwise sulph. in irreg. patches, strgs., generally weak.
1125'0"	1136'0"	11'	90%		Qtzose whitish rhyolite(?) with bands of massive sulph. from 1125-1126'. py, cpy., ga (bluestone type ore). Thereafter sulph. in weak strgs. Sulph. bands 1132-1135' (py-ga) weak
1136'0"	1158'0"	22'	100%		Greenish silic. frag. or flow brecc. rhyolite Sporadic qtzose masses. Occas. bands of sulph. generally py. and fine grained.
1158'0"	1162'0"	4'	100%		Greenish fine grained rhyolite with black argillaceous zones & scatt. py. blebs

DIAMOND DRILL LOG  
=====HOLE NO. IM-6PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

From	To	Length	Recovery	Core Angle	Description
1162'0"	1176'0"	14'	100%	50°	Green silic. rhyolite frags. with irreg. qtz. zones, often with associated py., generally weak.
1176'0"	1191'0"	15'	100%		Greenish frag. or flow brecc. but more qtzose argillaceous zones containing sulph. (py). Qtzose zones appear brecc. (Carregy-doll). Occas. cpy. is noted. Sulph. 50% of core
1191'0"	1198'0"	7'	100%		Grey silic. frag. rhyolite. Some vague banding.
1198'0"	1208'0"	10'	100%		As above with chloritic or argillaceous zones containing blebs of py. sulph., qtzose zones.
1208'0"	1224'0"	16'	100%		Blue-grey alt. mudstone or chloritic rock derived from basic(?) tuff or dyke. Sulph. mainly py. in bands & patches & blebs throughout
1224'0"	1252'0"	28'	100%		Alt. dyke(?) or tuff. Spongy vesicular chloritic somewhat silic., occas. qtzose zone. Sulph. in massive blebs & dissem. throughout mainly py. Vesicular portion may represent earlier sulph. now gone. Green, blue-grey massive appears almost like a gossan
1252'0"	1255'0"	3'	60%		Broken recovery of chloritic-argillaceous alt. dyke or tuff (greenstone) - quite hard prob. silic. Vesicular, visible mud filled
1255'0"	1276'0"	21'	100%		Blue-black alt. dyke or basic lavas prob. chloritic. Silic. in zones with irreg. qtz. Occas. fracture zones, sulphide, mainly blebs, py. sporadically.
1276'0"	1297'0"	21'	100%		Blue-grey variably silic. chloritic alt. tuff and mudstone at times weathered looking - vesicular. Vesicles mud filled or qtz. Occas. scattered sulph. blebs.

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

From	To	Length	Recovery	Core Angle	Description
1297'0"	1301'0"	4'	50%		Broken recovery, alt. greenstone, vesicular, with very weak sulph.
1301'0"	1322'0"	21'	50%		Frag. recovery of alt. greenstone or argillaceous alt. tuff. Vesicular in part some vesicles py. also dissem. Poss. ga.
1322'0"	1326'0"	4'	100%		Black-blue argillite or mudstone, alt. dyke(?) Vesicular portions. Blebs & strgs. of py. sulph.
1326'0"	1357'0"	31'	85%		As above - greenstone - alt. dyke or tuff Core generally fractured & broken. Scatt. irreg. qtz. Zones of the core are harder & greyer - more silic. Sulph. in irreg. blebs, patches, strgs. dissem. throughout, mainly py
1357'0"	1374'0"	17'	95%		Blue-grey, generally more silic. tuff or rhyolite with bands of greenish soft argillite or alt. tuff containing blebs of py. After 1372' core appears to be a silic. frag. - prob. a rhyolite(?)
1374'0"	1386'0"	12'	40%		Fragmental recovery of mixture of rhyolite, mudstone, silic. greenstone tuff, etc.
1386'0"	1396'0"	10'	100%		Highly silic. grey shale or tuff with massive cpy. and granular qtz. Cpy. appears interstitially in an impregnation(?)
1396'0"	1404'0"	8'	70%		Fault Zone in grey shale, phyllitic frag. recovery. Cherty at commencement
1404'0"	1428'0"	24'	100%	65° 45°	Grey and grey-black, somewhat phyllitic shales with much irreg. qtz. after 1420' Shale becomes gouge in last two feet. Occas. blebs of fine grained py.
1428'0"	1431'0"	3'	60%		Fault Zone Fragments of qtzose micaceous, granitic(?) rock. Poss. weathered rhyolite or Mona



# DIAMOND DRILL LOG

HOLE NO. IM-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

From	To	Length	Recovery	Core Angle	Description
1431'0"	1451'0"	20'	85%		Highly qtzose, muscovite rich gneissic rock & pale greenish or grey, massive. Fract. at times, some core loss
1451'0"	1474'0"	23'	100%	45°	Alternating gneissic qtzose rock and uniform mica schist, grey-purple in color. Poss. an alt. vol. sequence - Mona
1474'0"	1515'0"	41'	100%	50° 20° 40°	Banded schist or gneiss, strongly micaceous chloritic, qtzose zones - massive, irreg. Alternating sequence.
1515'0"	1533'0"	18'	100%	35° 40°	Micaceous schist & gneiss, purplish irreg. qtz. in bands, blebs, patches or strgs. Weak dissem. of py. Streaked metal core surface prob. from core barrel
1533'0"	1558'0"	25'	100%	35°	Pale grey-white massive qtzose rock, alt. granitic rock or acid vol. Core at end (ie from 1548') appears to be a silic. brecc. or an acid frag.
1558'0"	1592'0"	34'	100%	50°	Purplish grey speckled mica schist, generally massive, some irreg. qtz. vns. Zone silic. greyish. Banding & lineation often well devel.
1592'0"	1606'0"	14'	95%		Coarse granitic or pegmatitic massive rock. Poss. coarse gneiss. Some micaceous sections Mona(?)
1606'0"	1619'6"	13'6"	85%		Purplish grey or green, somewhat coarse grained micaceous gneiss - granitoid(?) Fine dissem. sulph.
1619'6"	1633'0"	13'6"	85%	35°	Alt. kaol. fel. material, qtz. lumps, soft & much broken - pale grey-green in color. Poss. alt. granitoid gneiss
1633'0"	1639'0"	6'	100%		Hard compact micaceous gneiss, massive Some irreg. qtz. bands & masses. Weak py. dissem.

DIAMOND DRILL LOG  
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HOLE NO. IM-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

From	To	Length	Recovery	Core Angle	Description
1639'0"	1643'0"	4'	100%	30° in contact	Mica schist with granitoid portion - much broken. Poss. alt. vol. or frag.
1643'0"	1652'0"	9'	90%		Black carb. shale - dense massive much broken at contact. Much irreg. qtz. at sporadic intervals. Occas. blebs & bands of fine grained py. Gritty bands.
1652'0"	1674'0"	20'	100%	40°	Dense black carb. mudstone and shale with some gritty bands & occas. irreg. qtz. strgs. & masses. Occas. fine grained py. in blebs & bands, gen. weak.
1674'0"	1678'0"	4'	100%	40°	Grit or greywacke with black carb. shale bands. Qtz. vns.
1678'0"	1699'0"	21'	100%		Dense black carb. shale, fract. at times, shear zones. Irreg. qtz. vns. & strgs. cleaved
1699'0"	1714'0"	15'	65%		Dense black carb. shale or mudstone, sheared & fract. with irreg. qtz. Much gouge 1700-1704' - Fault Zone
1714'0"	1800'0"	86'	100%	45°	As above carb. shales, less fract. & sheared phyllitic more or less uniform. Occas. irreg. qtz.  END OF HOLE

SAMPLE RECORDHOLE NO. IM-6PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

Sample No.	From	To	Recovered Length	Assays (Gm/1000 Kilos)				Description
				%Cu	%Pb	% Zn	Ag	
1532	496.0'	499.0'	3'	0.11	0.02	0.13	0.15	Grey felsite somewhat talcose Tuffaceous, weak sulphide
1533	499.0'	502.0'	3'	0.44	0.22	0.40	4.40	Grey, somewhat banded talcose, rhyolite with massive sulphide some qtz. Sulphide (py-cp) 20% of core.
1534	502.0'	525.0'	23'	0.12	0.08	0.02	4.65	Pale grey silicified somewhat talcose rhyolite & tuffaceous rhyolite weak disseminations, blebs py., Sporadic patches py. with some cpy, ga.
1535	525.0'	531.0'	6'	0.91	0.02	0.05	0.95	Grey silicified rhyolite with large irregular patches of sulphide (py-cpy) or stringers & blebs throughout sulphide 30% of core.
1536	531.0'	536.0'	5'	0.17	0.04	0.01	0.20	Highly siliceous grey rhyolite. Some bands of py. - cpy. Otherwise str- ingers or blebs, weak.
1537	536.0'	547.0'	11'	0.01	0.03	0.01	0.20	Pale grey massive silicified rhyolite Weak stringers & blebs of pyritic sulphide.

SAMPLE RECORD

HOLE NO. 1M-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

Sample No.	From	To	Recovered Length	Assays (Gm/1000 Kilos)					Description
				%Cu	% Pb	% Zn	Ag		
1538	547.0'	565.0'	18'	0.06	0.01	0.01	3.80		Pale greenish grey silicified felsite or rhyolite with streaks and blebs of sulphide. Pyrite with sul. cpy. Sulphide 5% of cores
1539	565.0'	585.0'	18'	0.11	0.02	0.02	4.85		Variable somewhat fragmental Grey rhyolite or rhyolitic tuff Broken after 581'. Grey patches & streaks of py., weak cpy. Sulphide about 10% of core
1540	585.0'	595.0'	10'	0.01	0.01	0.01	4.30		Variable rhyolite lavas, greenish, probably tuffaceous, at times cherty
1541	655.0'	665.0'	10'	0.01	0.05	0.01	0.30		Variable grey highly silicified cherty rhyolite. Sulphide weak.
1542	665.0'	671.0'	6'	0.01	0.02	0.02	4.10		Blue grey/green cherty rhyolite. Azufon type py. 20%+ core
1543	671.0'	693.0'	22'	0.02	0.03	0.02	0.15		Grey-green highly silicified rhyolite and rhyolite fragmentals. Occasional sporadic sulphide patches (py) dissem. galena
1544	693.0'	705.0'	12'	0.26	0.01	0.01	0.15		Greenish grey cherty fragmental rhyolite. Py. in large blebs, porous fine disseminations original cpy. Sulphide about 10% of core

SAMPLE RECORD

HOLE NO. IM-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

Sample No.	From	To	Recovered Length	Assays (Gms/1000 Kilos)				Description
				% Cu	% Pb	% Zn	Ag	
1545	705.0'	725.0'	20'	0.07	0.01	0.02	0.20	Green/grey silicified rhyolite fragmentals. Weak patches and stringers of sulphides, mainly pyrite.
1546	725.0'	743.0'	18'	0.17	0.01	0.02	4.95	Greenish rhyolite, at times fragmented altered and occasionally kaolinized. Weak bands, stringers py.
1547	743.0'	753.0'	10'	0.22	0.01	0.07	0.20	Pale mere quartzose rhyolite, probably fragmental in part. Some massive sulphide (py-cpy-ga) 15% of core
1548	753.0'	763.0'	10'	0.22	0.01	0.04	1.10	Pale highly silicified rhyolite lavas. Patches sulphide irregularly (py-cpy)
1549	763.0'	771.0'	8'	0.23	0.01	0.40	3.15	More quartzose acid fragmental lavas Patches of sulphide, irregular disseminations. Sulphide +10% of core
1550	771.0'	785.0'	14'	0.27	0.01	0.19	2.25	Pale grey/green cherty rhyolite Chert (of Open Pit). Sporadic massive sulphide (py/cpy) also disseminations 10% of core
1551	785.0'	794.0'	9'	0.18	0.01	0.10	2.50	Pale grey/green fragmented rhyolite Sulphide streaks, disseminations, blebs irregular 10%-15% of core (py, cpy)

SAMPLE RECORD

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

Sample No.	From	To	Recovered Length	Assays (Gms/1000 Kilos)				Description
				% Cu	% Pb	% Zn	Ag	
1552	794.0'	804.0'	10'	0.01	0.01	0.04	1.50	Chert, cherty rhyolite, fragmental in part. Sulphide extremely weak

ATTENTION MR STANLEY W HOLMES

ANGLESEY CORES

=====

LOT ===	COPPER =====	LEAD =====	ZINC =====	SILVER =====
1532	0.11	0.02	0.13	0.15
33	0.44	0.22	0.40	4.40
34	0.12	0.08	0.02	4.65
35	0.91	0.02	0.05	0.95
36	0.17	0.04	0.01	0.20
37	/0.01	0.03	0.01	0.20
38	0.06	0.01	0.01	3.80
39	0.11	0.02	0.02	4.85
40	0.01	/0.01	0.01	4.30
41	0.01	0.05	0.01	0.30
42	0.01	0.02	0.02	4.10
43	0.02	0.03	0.02	0.15
44	0.26	/0.01	0.01	0.15
45	0.07	/0.01	0.02	0.20
46	0.17	/0.01	0.02	4.95
47	0.22	/0.01	0.07	0.20
48	0.22	/0.01	0.04	1.10
49	0.23	/0.01	0.40	3.15
50	0.27	/0.01	0.19	2.25
51	0.18	/0.01	0.10	2.50
52	/0.01	/0.01	0.04	1.50

AG GMS/1000 KILOS  
/ MEANS LESS THAN

+++  
ASSAYERS WALL\*  
KINGLAW TOR

SAMPLE RECORD

HOLE NO. IM-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

Sample No.	From	To	Recovered Length	Assays (Gms/1000 Kilos)				Description
				% Cu	% Pb	% Zn	Ag	
1553	1091'0"	1096'0"	5'	0.02	0.01	0.05	0.25	Banded grey chert and cherty rhyolite Sulphide very weak.
1554	1096'0"	1101'0"	5'	0.22	0.02	0.05	0.20	Chert, cherty rhyolite with carbonaceous mudstone. Massive pyritic sulphide makes up 40% or more of core Cpy. present but weak.
1555	1101'0"	1112'0"	11'	0.03	0.01	0.06	Tr	Cherty rhyolites and fragmentals with mudstone fraction towards end. Weak sulphide in blebs & disseminations(py)
1556	1112'0"	1125'0"	13'	0.06	0.01	0.07	Tr	Fragmental cherty rhyolites with argillaceous sandstone fraction carrying blebs and patches py. Py. also in stringers.
1557	1125'0"	1136'0"	11'	0.02	0.08	0.18	0.40	Quartzose whitish rhyolite with bands of massive sulphide of the bluestone type. Otherwise weak sulphide. Bluestone contains py. - cpy. - ga.
1558	1136'0"	1146'0"	10'	0.02	0.02	0.12	1.50	Greenish silicified rhyolite. fragmented or few brecciated. Sulphide weak in bands and stringers
1559	1146'0"	1158'0"	12'	0.03	0.02	0.18	1.20	Greenish silicified fragmental rhyolite Occasional weak sulphide in bands and stringers - py.



SAMPLE RECORD

HOLE NO. IM-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

Sample No.	From	To	Recovered Length	Assays (Gms/1000 Kilos)				Description
				% Cu	% Pb	% Zn	Ag	
1560	1158'0"	1178'0"	20'	0.05	0.02	0.20	0.20	Greenish fine grained rhyolite. Scattered concentrations of py blebs & masses.
1561	1178'0"	1198'0"	20'	0.12	0.01	0.08	0.30	Fragmental and few brecciated rhyolites. Weak sulphide - py. with occasional cpy. specks.
1562	1198'0"	1208'0"	10'	0.19	0.01	0.12	10.20	As above. Chloritized, argillaceous zones containing blebs and concentrations of py.
1563	1208'0"	1218'0"	10'	0.44	0.01	0.20	3.50	Blue grey altered, mudstone or chloritic rock derived from basic tuff or dyke. Sulphide, pyrite in bands & patches throughout
1564	1218'0"	1228'0"	10'	0.18	0.01	0.10	Tr	As above becoming vesicular & cindery with black mud?
1565	1228'0"	1238'0"	10'	0.25	0.01	0.08	Tr	Much weathered altered dyke or tuff. Spongy, vesicular and chloritic. Sulphide (py) in massive blebs & disseminations.
1566	1238'0"	1248'0"	10'	0.49	0.01	0.08	Tr	Altered chloritic dyke or tuff. Vesicular, leached & cindery. Silicious, weak sulphide (py)

SAMPLE RECORD

HOLE NO. IM-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

Sample No.	From	To	Recovered Length	Assays (Gms/1000 Kilos)					Description
				% Cu	% Pb	% Zn	Ag		
1567	1248'0"	1258'0"	9'	0.02	0.01	0.07	Tr		Broken recovery as above, mud filled vesicles. Probable strong silicification. Sulphide apparently weak.
1568	1258'0"	1268'0"	10'	0.01	0.10	0.11	Tr		Blue-black argillaceous basic tuff or altered dyke, strongly silicified. Sulphide in blebs & patches - weak
1569	1268'0"	1278'0"	10'	0.01	0.02	0.05	0.50		As above. Sulphide in weak disseminations.
1570	1278'0"	1286'0"	8'	0.01	0.02	0.47	3.90		Blue-grey variably silicified, altered basic tuff or dyke. Strongly vesicular cindery with mud filled vesicles. Py. in blebs & disseminations.
1571	1286'0"	1297'0"	11'	0.01	0.01	0.05	1.20		Blue-grey-black less altered argillaceous chloritic tuff or altered dyke. Variably silicified. At times vesicular - filling probably carbonate. Sulphide very weak.
1572	1297'0"	1326'0"	16'	0.01	0.01	0.25	0.30		Core much broken, fragmental recovery, altered basic tuff or dyke, vesicular in part. Some black argillite or mudstone. Blebs & stringers of py.-weak.

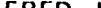
SAMPLE RECORD

HOLE NO. IM-6

PROPERTY PARYS MOUNTAIN (WESTERN OPEN PIT)

Sample No.	From	To	Recovered Length	Assays (Gms/1000 Kilos)					Description
				% Cu	% Pb	% Zn	Ag		
1573	1326'0"	1337'0"	9'	0.01	0.01	0.10	0.30		As above. Altered dyke or tuff generally fractured & broken. Sulphide irregular - blebs, concentrations, patches.
1574	1337'0"	1348'0"	9'	0.01	0.01	0.06	0.30		As above
1575	1348'0"	1357'0"	9'	0.03	0.01	0.08	7.50		As above
1576	1357'0"	1364'0"	7'	0.11	0.01	0.05	0.50		Silicified argillaceous mudstone or altered dyke. Section of fragmental rhyolite? weak sulphide
1577	1364'0"	1374'0"	10'	0.13	0.01	0.05	1.00		Altered greenish argillaceous tuff or dyke. Bands of silicification, rhyolite fragmental after 1372. Sulphide in blebs or strong disseminations. Mainly py. but some cpy.
1578	1374'0"	1385'0"	About 6'	0.01	0.01	0.04	1.00		Fragmentary recovery of highly siliceous rhyolite? with chlorite, muscovite bands. Altered & kaolinized
1579	1385'0"	1396'0"	9.5'	6.90	0.81	4.15	39.00	Tr	Highly silicified black/grey shale or tuff, cherty with massive cpy/qtz. making up about 35% of core.
1580	1396'0"	1405'0"	6'	0.02	0.09	0.10	3.80		Fault zone of black shales, much broken & fragmented, much gouge

to: Intermine Ltd., Dyffryn Adda, Pentrefelin Amlwch, Anglesey.

Yours faithfully,  
  
 ALFRED H. KNIGHT LTD.

## DIAMOND DRILL LOG

HOLE NO. IM-7PROPERTY PARYS MOUNTAIN (CORONATION AREA)

Tests

Elevation		Bearing 160°		Depth	Bearing	Dip
Location		Dip -65°		500'	164½°	52°
Started 21/10/71		Finished 8/11/71		Check Dip		58°
Final Depth 2000'		Casing To 21 feet		Test @ 570		
Core Size BQ Wireline		Driller Rene Gervais		785'	155°	52°
				1138'	161°	49°
				D.T. 1500'		41½°
				D.T. 1880'		37°
				D.T. 2000'		37½°
From	To	Length	Recovery	Core Angle	Description	
0'	30'				No Core	
30'	70'	40'	90%		Green vaguely banded highly silic. rhy., much fract. with limon. on fract. planes. Poss. frag.	
70'	89'	19'	95%		Grey-green highly silic. rhy., much broken & fract. Major core loss between 83-89'	
89'	136'	47'	100%		More uniform grey-green highly silic. rhy. Irreg. qtz. Poss. frag. zone. Occas. limonitic fissures	
136'	170'	34'	100%	40°	Grey-green rather gritty highly silic. rhy. or tuff. Alt. sed.	
170'	200'	30'	100%	45°	F.g. patchy rhy. or tuff greenish-grey. Highly chlor. bands somewhat cherty at times Irreg. qtz. patches.	
200'	215'	15'	95%	40°	F.g. cherty rhy. - greenish with chlor./ muscov. bands (of talc). Possibly tuffaceous, weak sulph. on bedding planes.	
215'	226'	11'	100%	50°	Hard grey silic. mudstn. or f.g. cherty tuff. Sulph. in blebs	
226'	232'	6'	100%		Sheared to 228'. F.g. greenish rhy., somewhat porphy. in places. Silic.	

## DIAMOND DRILL LOG

HOLE NO. IM-7PROPERTY PARYS MOUNTAIN (CORONATION AREA)

From	To	Length	Recovery	Core Angle	Description
232'	241'	9'	100%	40-45°	Completely banded chlor. mudstn. or tuff with "marbled" appear.
241'	256'	15'	100%	40°	Finely ground, vaguely banded highly chlor. rhy. or tuff.
256'	320'	64'	100%	45°	Greenish highly silic. proph. rhy. Proph. crystals show some lineation parallel to presumed bedding planes. Whole rk. has a spotted appear. Sulph. occurs in sm. isolated blebs within proph. crystals or in matrix.
320'	376'	56'	100%		More greyish highly silic. proph. rhy. Bands of chlor.-muscov. After 340' frag. feature begins to develop and is well seen after 352'. With the develop. of frag. feature proph. texture decreases although it is never absent. Some frags. are proph.
376'	415'	39'	100%	40°	Similar to above - proph. texture still maintained. Some highly silic. zones. Some evidence of flow banding.
415'	432'	17'	100%		More uniform grey-green highly silic. rhy. Occas. proph. & banded. Frag. zones - shale frags., rhy. frags., often chlor. Occas. interstitial sulph - weak
432'	466'	34'	100%	40°	Greenish-grey somewhat banded sequence of silic. rhy. At times proph. or chlor./muscov. rich. Frag. zones devel. at intervals.
466'	490'	24'	100%		Grey frag. sequence - poss. flow brecc. in rhy. Silic.
490'	516'	26'	100%	30-35°	More tuff. finely banded grey, grey-green rhy., silic.

DIAMOND DRILL LOG  
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HOLE NO. IM-7

PROPERTY PARYS MOUNTAIN (CORONATION AREA)

From	To	Length	Recovery	Core Angle	Description
516'	531'	15'	100%	35°	F.g. banded, somewhat tuffaceous, silic. rhy. or acid tuff. Qtz. bands & strgs.
531'	554'	23'	100%	10°	Pale grey to white highly silic. flow brecc. rhy. Some f.g. py. occurs interstitially & in rare massive more c.g. patches with some cpy.
554'	566'	12'	95%	40°	F.g. tuff. rhy. or silic. tuff. Greenish-grey somewhat banded. Sulph. (weak) in blebs or strgs. parallel to banding.
566'	583'	17'	100%	30°	Grey, f.g. highly silic. rhy. or rhy. tuff. Occas. banding, some frag. or coarser tuff patches. Py. weak.
583'	594'	11'	100%	35°	Well banded, occas. frag. f.g. rhy. tuff. Highly silic.
594'	614'	20'	100%		Apparently variable highly silic. green rhy. Some brecc. with interstitial carb. shale. Sections highly qtzose & massive. Sulph. very weak.
614'	657'	43'	100%		Grey-green highly silic. rhy. sequence - tuff. & frag. at times, generally highly silic. Prob. flow banding. Py. in blebs & strgs. irreg. Towards end py. is dissem. interstitially throughout core, some cpy noted.
657'	677'	20'	100%		Dark grey & silic. flow banded rhy. somewhat brecc. Sulph. of Bluestone type (py-cpy-ga) interstitially and in bands & streaks. Min. core 12% of total.
677'	686'	9'	100%		Mainly massive py. sulph. & qtz. Irreg. qtz. masses. Sulph. f.g. 25-30% of sulph. prob. cpy.

## DIAMOND DRILL LOG

HOLE NO. IM-7PROPERTY PARYS MOUNTAIN (CORONATION AREA)

From	To	Length	Recovery	Core Angle	Description
686	691	5'	100%		Highly qtzose grey-black flow banded rhy(?) or disrupted silic. mudstn(?). Massive sulph. in strgs. & dissem., mainly py., but some cpy, 10% core sulph.
691'	707'	16'	100%		Silic. qtzose vol. - could be similar to White Rock or Carreg-y-doll. Dissem. of f.g. py. throughout. Grey-black in color.
707'	720'	13'	100%		White highly qtzose rhy(?) or White Rock. Interstitial py. also in bands up to 2". Some cpy. in more qtzose sections, carb. in part.
720'	737'	17'	100%		Less qtzose but highly silic., poss. frag. rhy. Dissem. of c.g. py. extensively. Ga assoc. with qtz. bands. Sulph. min. in 20% of core, core grey-black in color.
737'	761'	24'	100%		Dark & white silic. rhy. Much fine qtz. in sections. Darker portion appears to be argil. Strong dissem. & concentrations of coarse py. (azufrom type) may be massive in more argil. fraction.
761'	795'	34'	100%		Pale grey or greenish highly silic. variable rhy. sequence. Chlor./muscov. bands. Some brec. & fine banding. Weak dissem. of sulph.
795'	811'	16'	100%		Greyish banded dark rhy.(?). Some argil. fraction or carb. material. Sulph. in bands & patches often f.g., sometimes coarse & gran. Sulph. appears to be almost all py.
811'	817'	6'	100%		Highly qtzose rhy. pale in color. Some chlor. muscov. - "talcose zones. Sporadic massive dissem. py., sulph.



DIAMOND DRILL LOGHOLE NO. IM-7PROPERTY PARYS MOUNTAIN (CORONATION AREA)

From	To	Length	Recovery	Core Angle	Description
817'	839'	22'	100%	35°	Greenish grey highly silic. rhy. flow, somewhat brecc. (flow brecc.?). Zones of green chlor. muscov., speckled. Highly qtzose patches & bands some containing sulph. (py-cpy-ga). Blebs & patches of py.
839'	874'	35'	100%		Greenish highly silic. rhy. Some sulph. patches in first five feet but rapidly weakening. Fine specks remain at end, some cpy.
874'	955'	81'	100%		Dark grey-green much speckled (porph.) tuff. rhy. Darker carb. fraction may be argill. Paler sections highly silic. Appears fragmental in part. Py. weak to absent
955'	1028'	73'	100%		Variable grey to grey-green silic. rhy. sequence. Sometimes frag., at others argill. (tuffaceous). Sulph. weak - sporadic patches, qtzose patches. Chlor./muscov. bands.
1028'	1050'	22'	100%		Highly silic. grey to grey-green chlor. rhy. and tuff. rhy. with some frag. Strgs., vns., and patches of sulph. (py. but some cpy. & ga.)
1050'	1088'	38'	100%		Grey to grey-green highly silic., occas. frag. tuff. rhy. sequence. Weak sulph. (occas. patches)
1088'	1134'	46'	100%		Silic. tuff. rhy., banded or flow banded. Frag. zones. Sulph. very weak & strgs.
1134'	1205'	71'	100%		Grey, speckled black tuff. frag. rhy. Silic., strongly at times. Sulph. weak.
1205'	1238'	33'	100%		Grey speckled silic. frag. rhy. sequence. Occas. dark black shale or mudstn. bands. Sulph. strongly dev. occas. in shale portion

DIAMOND DRILL LOGHOLE NO. 1M-7PROPERTY PARYS MOUNTAIN (CORONATION AREA)

From	To	Length	Recovery	Core Angle	Description
1238'	1254'	16'	100%	30°	Variable qtzose or banded tuff. material & rhy. Strongly chlor. (or "talcose") Poss. shale zones (bands)
1254'	1308	54'	100%	35° 30°	Chlor., tuff. sequence., often well banded gen. soft. Sulph. in weak strgs. Grad. becoming pale & presum. more silic. (harder)
1308'	1318'	10'	100%		Pale grey-green almost uniform rhy. (?). Some dark chlor. or argill. zones with py. (Bit burned in)
1318'	1356'	38'	100%	30° Contact 40°	Wedge place @ 1318' Pale f.g. grey-green-grey chlor. rhy. (of bottom of hole #1M-9) with chlor. more tuff. zones. Banding may be well dev. Vns., stegs. py. Occas. bands of sulph., f.g. of Bluestone type. Min. gen. weak.
1356'	1358'	2'	100%		Transition zone of dense black mudstn. with some chlor. tuff material, shale brecc. Some blebs of f.g. py. near contact
1358'	1367'	9'	90%		Fract. sheared well cleaved, black shales banded. Phyllitic. Consid. clay gouge - Fault Zone(?)
1367'	1406'	39'	100%	30°	Dense black mudstn. or carb. shales, gen. massive, structureless, occas. blebs of f.g. sulph.
1406'	1437'	31'	100%	25°	Dense black mudstn. or carb. shales, finely banded, phyllitic. Some chlor. bands & strgs., occas. py. blebs.
1437'	1446'	9'	100%		As above with silic. chlor. sections.

DIAMOND DRILL LOG  
=====HOLE NO. IM-7PROPERTY PARYS MOUNTAIN (CORONATION AREA)

From	To	Length	Recovery	Core Angle	Description
1446'	1488'	42'	100%	35°	Black-dark grey banded mudstn. or shales. Occas. chlor. strgs. phyllitic.
1488'	1512'	24'	100%		As above but more sheared. Some sporadic occurrences of irreg. qtz., occas. blebs of f.g. py.
1512'	1583'	71'	100%		Dense black carb. mudstn. finely banded, phyllitic. Rare qtz. strgs. occas. irreg. blebs of f.g. py. Sporadic shears
1583'	1588'	5'	90%		Sheared dense black mudstn., some brecc. Irreg. qtz., much gouge. Prob. fault zone
1588'	1596'	8'	100%	Contact 40°	Black carb. shales & mudstns. with much qtz. - shatt. more silic. or arenaceous bands and some brecc. on contact at 1596'. Frags. are of the formation below
1596'	1660'	64'	100%		Schist & gneiss sequence, purplish-grey, some chlor. may be greenish. Sometimes banded, poss. frag. - may be alt. vol. sequence. Trace of py., ga. Qtzose or granitoid irreg. masses. Exactly similar to rock in #IM-6 - Mona(?)
1660'	1669'	9'	100%		Schist gneiss sequence, purplish-grey or green. Qtzose in part or granitoid. Poss. Mona or alt. vol. sequence.
1669'	1686'	17'	100%		As above, some qtzose zones containing mineral of the Bluestone type (py-cpy-ga) (1692-1673'6")
1686'	1714'	28'	100%		Purplish-grey highly arsenaceous schist - poss. alt. tuff. Some qtzose gneiss bands. Sheared in part.
1714'	1774'	60'	95%		Purplish grey mica schist sequence. Carb., tuffaceous bands, patches of massive white irreg. qtz.

DIAMOND DRILL LOGHOLE NO. IM-7PROPERTY PARYS MOUNTAIN (CORONATION AREA)

From	To	Length	Recovery	Core Angle	Description
1774'	1790'	16'	100%	30°	Chlor., mica schist, somewhat banded in zones. Bands may be argill. Brecc. present at times.
1790'	1811'	21'	100%		Mainly purplish mica schist with qtzose chlor. bands & argill. bands.
1811'	1817'	6'	100%		Black carb. shales, gritty zones & irreg. qtz. strgs.
1817'	1832'	15'	100%		Qtzose micaceous, chlor. brecc. or frag. - old slump area or healed fault zone(?)
1832'	1880'	48'	100%		Black shale with occas. grit, conglomer. & greywacke bands. An axis occurs at about 1850' indic. an anticlinal fold. Greywackes coarsely bedded. Borehole ceases to go down section after 1850' & proceeds to go up section.
1880'	1932'	52'	100%		As above, dense black carb. mudstn. with occas. bands of gravel conglomer. or greywacke showing graded bedding. Hole clearly going up section. Occas. irreg. qtz. bands.
1932'	1956'	24'	100%		Mainly dense black carb. mudstn. with irreg. qtz. bands and strgs. Occas. narrow grit or greywacke bands. Blebs f.g. py. 1947-1951'. Gen. weak.
1956'	2000'	44'	95%		Dense black carb. mudstn. phyllitic. Some irreg. qtz. bands & strgs. Apparently barren.
					END OF HOLE

SAMPLE REPORTHOLE NO. IM-7PROPERTY PARYS MOUNTAIN (CORONATION)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag	Au	
1581	647'0"	660'0"	13'	13'	0.03	0.02	0.03	Tr		Greenish highly silicified flow banded rhyolite. Probably tuffaceous in part (argillaceous fraction). Py in blebs - weak.
1582	660'0"	668'0"	8'	8'	0.15	0.10	0.31	3.78		Pale grey, grey-green highly silicified rhyolite. Some quartzose zones containing bands of massive sulphide (cp-py-ga noted). Mineralized core 15% of total.
1583	668'0"	676'0"	8'	8'	0.03	<0.01	0.04	1.45		Silicified tuffaceous rhyolite and dark grey in color. Possibly siliceous, argillaceous material. Sulphide very weak.
1584	676'0"	686'0"	10'	10'	1.41	0.07	0.19	4.00	Tr	Over 50% core is massive sulphide and about 25%-30% of that is cpy. Sulphide generally fine grained and in a highly siliceous matrix.
1585	686'0"	691'0"	5'	5'	0.28	0.04	0.04	0.78		Silicified argillaceous and siliceous material, chloritic. Possibly altered tuffaceous rhyolite. Massive sulphide in stringers, mainly py(some cpy) 10% core sulphide

SAMPLE REPORTHOLE NO. IM-7PROPERTY PARYS MOUNTAIN (CORONATION)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					%Cu	%Pb	%Zn	Ag	Au	
1586	691'0"	707'0"	16'	16'	<0.01	<0.01	0.03	8.09		Dark grey white streaked mixture of qtz. and carbonaceous or chloritic material, possibly Carreg-y-dol, White Rock type. Disseminations of py. throughout.
1587	707'0"	717'0"	10'	10'	0.15	0.03	0.85	Tr		Much more quartzose. White Rock type. Interstitial py., also in bands up to 8". Some cpy, ga. Sulphide 15% of core
1588	717'0"	725'0"	8'	8'	0.03	0.03	0.22	1.88		Highly quartzose, possibly flow banded siliceous rhyolite (White Rock fraction?). Some quartzose bands contain ga, cpy. Generally sulphide in py., stringers, blebs 10% of core
1589	725'0"	737'0"	12'	12'	0.01	0.04	0.13	0.92		Less quartzose but still highly silicified, possibly even fragmented tuffaceous rhyolite dark grey in color. Coarsely crystalline py. in chloritic or argillaceous portion. Sulphide mineralization in 15% of core.
1590	737'0"	747'0"	10'	10'	<0.01	<0.01	0.05	0.47		Dark grey-green argillaceous or chloritic silicified tuffaceous rhyolite. Much fine quartz at times.

SAMPLE REPORT

HOLE NO. IM-7

PROPERTY PARYS MOUNTAIN (CORONATION)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag	Au	
1590										Strong disseminations and concentrations of coarse py. of the azufrom type.
1591	747'0"	757'0"	10'	10'	0.01	0.05	0.15	Tr		Same as for #1590
1592	757'0"	777'0"	20'	20'	<0.01	<0.01	0.02	1.46		Pale grey or greenish highly silicified rhyolite sequence. Weak sulphide
1593	777'0"	797'0"	20'	20'	0.01	<0.01	0.07	Tr		Same as for #1592
1594	797'0'	804'0"	7'	7'	<0.01	<0.01	0.02	Tr		Greenish flow banded rhyolite, somewhat tuffaceous. Coarse azufrom type sulphide in patches. Sulphide about 5% of core
1595	804'0"	811'0"	7'	7'	0.04	0.02	0.04	1.55		Generally granular quartzose, talcose coarse py. rock - sedimentary? Some massive green silicified chert or rhyolite. 95% of core is py., granular aggregate rock.
1596	811'0"	817'0"	6'	6'	0.26	0.03	0.02	1.78		Massive quartzose rhyolite? with chloritic - tuffaceous zones, containing disseminated coarse py., otherwise weak interstitial sulphide

# SAMPLE REPORT

HOLE NO. IM-7PROPERTY PARYS MOUNTAIN (CORONATION)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag	Au	
1597	817'0"	827'0"	10'	10'	< 0.01	< 0.01	0.01	Tr		As for #1596, chloritic sections spotted with carbonates? Sulphide in massive patches, stringers & veins interstitially. Mainly py.
1598	827'0"	838'0"	11'	11'	0.02	0.12	0.17	0.71		Massive pale grey green quartzose rhyolite? Chloritic argillite sections with coarse py. Quartz vein structures with noticeable ga, cpy, ramifying and weak.
1599	838'0"	847'0"	9'	9'	0.07	0.01	0.16	2.17		Green chloritic rhyolite sequence. Some sulphide patches containing (py-cpy) but are generally weak.
1600	847'0"	857'0"	10'	10'	0.09	0.01	0.04	Tr		Green chloritic rhyolite sequence irregular. Weak bands of pyritic sulphide with some cpy.



DATE 15th Nov 1971

ALFRED H. KNIGHT LTD

495605

## Rock Core Samples

to: Intermine Limited. ALGERS

TABLE

John F. Knight	
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## DIAMOND DRILL LOG

HOLE NO. 1M-8

PROPERTY PARYS MOUNTAIN (MORFA DU)

Tests

Elevation		Bearing		160°	Depth	Bearing	Dip
Location		Dip		-60°			
Started 7/10/71		Finished		12/10/71	350'	160½°	61°
Final Depth 900'		Casing			800'	163°	57°
Core Size BQ		Driller		Rene Gervais			

From	To	Length	Recovery	Core Angle	Description
0	112'				No Recovery
112'	190'	78'	100%	30°	Black carb. or graph. shales, showing fine banding often contorted & disrupted. Irreg. talcose patches, gen. with cleaved, occas. fract. zones (166-176' - 2' of core lost)
190'	195'	5'	100%		Massive white qtz. with irreg. shale portion, often soft & friable, qtz. vuggy with py.
196'	274'	78'	100%	30°	Black finely banded shales as before with irreg. talc bands & patches. Core shows signs of disruption in zone throughout. Some carb. strgs. Weak sulph.
274'	283'	9'	100%		Flow banded acid lava, vesicular at upper contact, f.g. at base.
283'	298'	15'	100%		Massive structureless black shale or mudstn. becoming harder towards base.
298'	309'	11'	100%	45° BX 13	Massive highly silic. cherty lavas of rhy. type. Irreg. talc qtz. blebs. Prob. porphyritic in part. Grey-green in color
309'	324'	15'	100%		As above with some irreg. massive qtz.
324'	340'	16'	100%		As above, less qtzose.
340'	375'	35'	100%		Pale green cherty rhy., some irreg. qtz. Occas. porphyritic zones.

## DIAMOND DRILL LOG

HOLE NO. IM-8PROPERTY PARYS MOUNTAIN (MORFA DU)

From	To	Length	Recovery	Core Angle	Description
375'	382'	7'	100%	45°	Somewhat banded talcose, at times porphyritic green rhy. Massive irreg. qtz. zones.
382'	404'	22'	100%		F.g. - cherty grey-green highly silic. rhy. Some scatt. bands & patches of qtz.
404'	418'	14'	100%		Yellow-grey brecc. or frag. highly silic. rhy. Massive patches of qtz.
418'	435'	17'	100%		F.g. pale green-grey-white cherty rhy. Some flow banding & brecc. zones. Sporadic qtz.
35'	469'	34'	100%	Up contact 40° Low contact 30°	Black carb. shale with talcose strgs. well cleaved. Blebs of f.g. py. at upper and lower contacts. Gen. barren. Core sheared occas. 449', 465'
469'	521' 6"	52' 6"	100%		Pale grey-green cherty rhy. Somewhat frag. at upper contact with blebs of py. becoming almost uniformly grey
521' 6"	524'	2' 6"	100%	Up contact 25° Low contact 30°-35°	Black carb. shale, some talcose strgs.
524'	536'	12'	100%		Green cherty rhy., massive silic. flow banded at times 4" shale at 531'
536'	578'	42'	100%		Cherty pale rhy., fine banded, fract. at commencement. Bands, strgs., streaks, blebs of py. sulph. sporadically, often interstitially to frag. portions.
578'	594'	16'	100%		Variable dark grey, poss. frag. rhy., green cherty rhy., massive irreg. qtz.

DIAMOND DRILL LOGHOLE NO. IM-8PROPERTY PARYS MOUNTAIN (MOREA DU)

From	To	Length	Recovery	Core Angle	Description
594'	637'	43'	100%	40°	Massive uniform green cherty rhy., very occas. banded. Zones of irreg. white qtz. Frag. after 628'
637'	695'	58'	100%	45°	Flow banded & frag. grey-green rhy. with irreg. qtz., sporadically. Hard & highly siliceous.
695'	726'	31'	100%		More uniform f.g. highly silic. rhy. Grey-green. Finely frag.
726'	758'	32'	100%		More coarsely frag. grey green highly silic. rhy. Flow banded at times sporadic irreg. qtz. Pale cherty patches at times.
758'	786'	28'	100%		Pale grey, green f.g. cherty rhy. with some porphyritic crystals. Poss. some vague flow banding. Weak py. blebs occas.
786'	800'	14'	100%		Pale green highly silic. rhy. with irreg. qtz. zones & some porphyritic portions.
800'	802'6"	2'6"	100%	Up contact 45° Low contact 55°	Massive black carb. shale, talc strgs., some patches of f.g. sulph. - weak.
802'6"	821'6"	19'	100%		Talcose, argill. frags. rock with occas. highly silic. patches & frag. zones. Core often broken
821'6"	826'	4'6"	100%		F.g. grey cherty rhy.
826'	857'	31'	100%		Grey highly silic. rhy. with large frags. & patches of bright & dark green talc. Some irreg. qtz. Some sporadic interstitial f.g. py.
857'	871'	14'	100%		Dark grey-green silic. rhy. Variable talcose portions. Sporadic qtz. Some banding & fragmentation

PROPERTY PARYS MOUNTAIN (MORFA DU)

From	To	Length	Recovery	Core Angle	Description
871'	900'	29'	100%	.	Pale grey-green silic. rhy. frag. Frags. often highly irreg. & talcose or cherty.  END OF HOLE

## DIAMOND DRILL LOG

HOLE NO. 1M-9

PROPERTY PARYS MOUNTAIN (BLUESTONE AREA)

## Tests

Elevation		Bearing 155°		Depth	Bearing	Dip
Location Southern Felsite		Dip -65°		385'	161°	55°
Started 28/10/71		Finished 30/10/71		500'	Dip Test	58°
Final Depth 500'		Casing				
Core Size BZ Wireline		Driller Rene Gervais				

From	To	Length	Recovery	Core Angle	Description
0'	17'	17'			No core but py. in sludge
17'	55'	38'	100%		Pale grey highly silic. flow banded rhy. Ramifying strgs. & bands of f.g. py. Zones fract., qtzose & lim.
55'	69'	14'	100%		Pale qtzose fract. rhy. with lim. on fracture planes. Some grey banded zones, weak sulph.
69'	102'	33'	100%		Alt. grey banded fel. in rhy. with yellow, pale massive rhy. Zones of vuggy qtz. In grey zones some sulph. (mainly py.) strgs.
102'	120'	18'	100%	20° BX 7	Dark grey to black chlor. tuff., rhy. strongly banded at times. Occas. frag. Sulph. occurs in bands & strgs. // to banding. Sulph. sporadic but may be mainly massive over short dist.
120'	151'	31'	100%		Dark grey chlor. variable sequence of frag. & tuff. rhy. Sulph. very weak.
151'	195'	44'	100%	30°	Pale highly silic. rhy. sequence. Occas. tuff. chlor. bands.
195'	266'	71'	100%	45°	Greyer more tuff., more argill. chlor. material. Poss. alt. sed. sequence, consisting of qtz. frags. chlor./muscov. Aulph. weak & blebs. Well banded.

DIAMOND DRILL LOGHOLE NO. 1M-9PROPERTY PARYS MOUNTAIN (BLUESTONE AREA)

From	To	Length	Recovery	Core Angle	Description
266'	279'	13'	100%	40°	More silic. banded tuff. or alt. sed. sequence. Occas. blebs of py., galena. Strong sulph. interstitially in patches.
279'	289'	10'	100%		More qtzose coarsely banded, poss. rhy. sequence. Some shale slivers. Sulph. f.g. irreg. in bands & patches, gen. weak & mainly py.
289'	296'	7'	100%	35°	Chlor. dark grey tuff becoming progress. more silic. towards end. Sulph. irreg. occas. massive (6") of Bluestone type (py-cpy-ga). Sulph. present throughout interstit. Prob. sed. sequence with sed. sulph. 20-30%
296'	335'	39'	100%	20°	Pale grey to white massive qtzose rock. Poss. massive rhy. or cherty material. Somewhat banded. // strgs. & vns. of f.g. py. with cpy.
335'	375'	40'	100%	30°	Pale massive silic. rhy. or alt. chert. Occas. bands & strgs. of sulph. Patches of sulph. 364'-365' 6". Sulph. py. & cpy. in shales with qtz. Sulph. gen. weak, // to presumed bedding.
375'	398'	24'	100%	30°	Banded tuff. silic. rhy. or else chert-tuff sed. sequence. Much interstit. sulph. along bedding planes. Py. some times brecc. - appears bedded. Weak cpy.
398'	404'	6'	100%	40°	Spotted grey-yellow grey silic. chert or rhy. Banded & streaked, poss. slumped, some chlor.
404'	424'	20'	100%	55°	F.g. grey chert with some banding, becoming shaly in last 3', making a grad. transition to shale group. Sulph. sporadic, py. & cpy. F.g. more or less // to bedding.

DIAMOND DRILL LOGHOLE NO. IM-9PROPERTY PARYS MOUNTAIN (BLUESTONE AREA)

From	To	Length	Recovery	Core Angle	Description
424'	434'	10'	100%	35°	Black mudstn. or shale, indurated at contact. Some chlor. & irreg. bands & patches of f.g. sulph. (py-cpy). Carb. bands which are softer.
434'	500'	66'	90%	30-60° Variable	Black carb. or graph. sheared mudstns., finely banded, phyllitic. Sheared 471-500' Qtz. bands, weak sulph. in scatt. blebs. Prob. Ordovician sequence.  END OF HOLE



## SAMPLE REPORT

HOLE NO. IM-9

PROPERTY PARYS MOUNTAIN (BLUESTONE)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag	Au	
1601	17'0"	25'0"	8'	8'	<0.01	<0.01	0.02	0.80		Green grey flow banded rhyolite sequence. Irregular patches and stringers of py. Limonitic fractures
1602	25'0"	35'0"	10'	10'	<0.01	<0.01	<0.01	0.46		As above. Sulphide weaker
1603	35'0"	50'0"	15'		<0.01	<0.01	<0.01	4.58		As above. Sulphide in stringers, patches & veins associated with white qtz. (White Rock type)
										BREAK IN SAMPLING
1604	255'0"	265'0"	11'	11'	0.02	0.19	0.38	Tr		Greyish tuffaceous or clastic sedimentary sequence. Shale, qtz, altered feldspar, Sulphide weak
1605	266'0"	275'0"	9'	9'	0.03	0.58	0.75	Tr		Greyish tuffaceous or clastic sedimentary sequence. Shale, qtz., altered feldspar. Sulphide (also clastic?) py-ga.
1606	275'0"	282'0"	7'	7'	0.02	0.44	0.87	2.88		As above
1607	282'0"	289'0"	7'	7'	0.04	0.26	0.39	Tr		More quartzose & siliceous coarsely banded, possibl rhyolite sequence. Sulphide irregular in patches & blebs generally weak mainly py.

PROPERTY PARYS MOUNTAIN (BLUESTONE)

[illegible]

SAMPLE NO:	Cu	Pb	Zn	Ag	Trace
1601	<0.01%	<0.01%	0.02%	0.10	
1602	<0.01	<0.01	<0.01	0.46	
1603	<0.01	<0.01	<0.01	4.58	
1604	0.02	0.19	0.38	Trace	
1605	0.03	0.58	0.75	Trace	
1606	0.02	1.44	0.87	3.88	
1607	0.04	0.26	0.39	Trace	
1608	0.12	0.63	3.04	14.18	Au - Trace
1609	0.01	<0.01	0.03	Trace	
1610	0.09	0.03	0.01	0.71	
1611	0.76	<0.01	0.02	22.28	
1612	0.15	<0.01	0.03	Trace	

*John McKnight*

## DIAMOND DRILL LOG

HOLE NO. IM-10

PROPERTY PARYS MOUNTAIN (BLUESTONE)

Tests

<u>Elevation</u>		<u>Bearing</u> 160°		<u>Depth</u>	<u>Bearing</u>	<u>Dip</u>	
<u>Location</u>		<u>Dip</u> -65°			500'	165°	61°
<u>Started</u> 3/11/71		<u>Finished</u> 12/11/71			1000'	163°	47°
<u>Final Depth</u> 1166'		<u>Casing</u> 0 - 34'					
<u>Core Size</u> BQ		<u>Driller</u> Rene Gervais					

From	To	Length	Recovery	Core Angle	Description
0'	34'	34'			No recovery - Casing
34'	77'	43'	55%		Frag. recov. of weath. white remant qtzose vuggy, limonite stained rhy. of the Carreg-y-doll type. Very poor recovery 65-77' (10% only)
77'	82'	5'	35%		Greyish weath. qtzose rhy. with qtz. bands containing sulph. (White Rock type), mainly py.
82'	96'	14'	30%		As above - grey weath. qtzose rhy. Frag. recov. only. Py. sulph. sporadically
96'	105'	9'	15%		Grey chert frag. or cherty rhy. Sulph. (py) in weath. bands & strgs.
105'	109'	4'	Gouge		Clay gouge, shaly frags., chlor.
109'	154'	45'	100%		Variable greenish grey chlor.(?), tuff. rhy. sequence. Zones of cherty rhy., cherty sed. Sulph. sporadic in chlor. zones or ramifying strgs. & vns. - py. zone
154'	180'	26'	100%	25°	Banded grey, grey-green silic. tuff. rhy. Zones chlor. rich. Dissem., bands & patches py.
180'	205'	25'	100%		Banded, grey silic. rhy. sequence, much ramifying qtz., occas. chlor zone with gouge or py., prob. tuff zone.

# DIAMOND DRILL LOG

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HOLE NO. IM-10PROPERTY PARYS MOUNTAIN (BLUESTONE)

From	To	Length	Recovery	Core Angle	Description
205'	211'	6'	100%		Silic. tuff. rhy. sequence with chlor-qtz. zones containing coarse py. with cpy. in qtzose portion. 10% core sulph.
211'	226'	15'	100%		Highly silic. frag. rhy. with tuff. zones and interstitial sulph. - py. also in vns. & strgs.
226'	250'	24'	100%		Pale grey, grey-green highly silic. frag. rhy. Thin py. strgs., interstitial py. Chlor. zones containing gran. py. Patches sulph., weak cpy. cherty at the end.
250'	258'	8'	100%		Black carb. shale altern. with occas. band of cherty rhy. Sulph. mainly py. in weak strgs.
258'	342'	84'	100%		Frag. tuff. rhy. sequence with silic. frags. & interstitial chlor. muscov. bands. Banded broadly. Sulph. weak in blebs & strgs. Some gouge.
342'	392'	50'	90%		More highly silic. cherty rhy. sequence, frag. in part, tuff. Sheared with gouge 380-387'. Sulph. in bands, blebs, partic. after 387'
392'	398'	6'	100%		Chert. or cherty rhy. reg. thin bands of py. with small strgs. of ga. Sulph. less than 5% of core.
398'	412'	14'	100%		Dark grey chert or cherty rhy. Some irreg. bands of white qtz. Sulph. in bands & strgs. py-cpy-ga. Poss. calamine. Sulph. 20-12% of core.
412'	436'	24'	100%		Dense f.g. grey-black mudstn. with occas. blebs & patches of f.g. sulph. (py). After 426' section becomes progress. more tuff. & banded with less sulph. Sheared at 436' Silurian

## DIAMOND DRILL LOG

HOLE NO. IM-10

PROPERTY PARYS MOUNTAIN (BLUESTONE)

From	To	Length	Recovery	Core Angle	Description
436'	448'	12'	100%	30°	Alt. bands of black-grey mudstn. & yellowish grey tuff. (?) mudstn. Weak sulph. of Bluestone type in scatt. dissem. Large graptolites @ 447' (monograptus) BX 25
448'	458'	10'	100%	40°	Banded grey & pale grey tuff. mudstn.
458'	492'	34'	100%	40°	Pale finely banded multi-colored tuff. shales. Weak scatt. blebs of py.
492'	506'	14'	100%	60°	Dark grey massive mudstn., fine banding, somewhat disrupted.
506'	512'	6'	100%		Finely banded multi-colored tuff. shales, showing frags. or brecc. Bands becoming coarser more silic. at end, prob. rhy. after 510'
512'	517'	5'	100%		Coarse rhy. tuff or frag. rhy. Some chlor. muscov. zones. F.g. sulph. sporadically py-ga. gen. weak.
517'	524'	7'	95%		Dense black mudstn. with some bands of f.g. sulph. concordantly - gen. weak.
524'	541'	17'	100%	20°	Grey-black rhyllitic mudstn. with occas. yellow-grey bands of tuff. mudstns. Few blebs of f.g. sulph.
541'	549'	8'	100%	20°	Banded grey, yellowish-grey tuff. mudstn. Sometimes sheared. F.g. sulph. in irreg. bands - mainly py.
549'	563'	14'	100%		Greyish rhy. frag. tuff, coarse frag. & cherty frag. chlor. muscov., part. at end. Sulph. weak.
563'	569'	6'	100%	10°	F.g. grey tuff. mudstn. or fine acid tuff. Finely dissem. py. at times, gen. weak.

DIAMOND DRILL LOGHOLE NO. IM-10PROPERTY PARYS MOUNTAIN (BLUESTONE)

From	To	Length	Recovery	Core Angle	Description
569'	583'	14'	100%	0°	Finely banded grey & black tuffs & argill. tuffs. Poss. monograptus(?), weak sulph.
583'	592'	9'	100%	20°	Mainly carb. mudstn. with some tuff admixture. Bands of f.g. py. occur concordantly to bedding. Ga. occurs in thin strgs. occas.
592'	602'	10'	100%		Pale silic. frag. rhy. with chlor. muscov. bands & in interstices. Upper 4' has min. in interstices cpy-ga-py. Sulph. steadily weath. after 596', when it is mainly py.
602'	615'	13'	100%		Pale grey silic. frag. rhy. with chlor. muscov. zones & in interstices. Sulph. weak, f.g. dissem. occas. tuff. to 606' Strongly chlor.
615'	624'	9'	80%		Pale grey silic. rhy. Much broken and fract. Sulph. weak.
624'	639'	15'	100%	10°	Pale grey f.g. highly silic. cherty rhy. Some zones poss. frag. with chlor-muscov. (tuff.?). Sulph. weak to absent.
639'	655'	16'	100%		Grey, bleu-grey tuff. rhy. Still strongly silic. but becoming softer towards end. Sulph. weak.
655'	675'	20'	100%		Massive chlor. muscov. tuff. Soft prob. argill. Sulph. apparently very weak.
675'	691'	16'	100%	35°	Grey highly silic. rhy. Some argill. or tuff. bands. Sulph. very weak. Qtz. strgs.
691'	716'	25'	95%	0°	Grey & pale grey silic. rhy. sequence including silic. tuff. rhy. Irreg. zones of mass. white qtz. which is often fract. & vuggy.

## DIAMOND DRILL LOG

HOLE NO. IM-10

PROPERTY PARYS MOUNTAIN (BLUESTONE)

From	To	Length	Recovery	Core Angle	Description
716'	750'	34'	95%	20°	Dark grey-greenish silic. rhy. & tuff. rhy., some irreg. qtz. silic. zones. 735-736' containing blebs of py.
750'	766'	16'	100%	20°	Tuff. & silic. frag. rhy. sequence. Chlor./muscov. partings.
766'	782'	16'	100%	20°	Grey hard silic. rhy. Some banding & zones of frag. rhy. Apparently barren.
782'	816'	34'	100%	20°	Grey rather hard banded tuff. rhy sequence Sulph. very weak.
816'	831'	15'	100%	20°	Silic. rhy. frag. material with intercalated muscov. chlor. bands and tuff. Sulph. in strgs. & blebs concordant with banding - gen. weak & f.g.
831'	846'	15'	100%		Grey chert, cherty rhy. with chlor. muscov. patches and bands. Sulph. in very weak dissems.
846'	872'	26'	100%	30°	Grey-white cherty rhy. Sulph. in strgs. & blebs & dissems. of bluestone type, part. 856-857'. Total sulph. less than 5% core.
872'	914'	42'	100%	25°	Massive pale grey rhy., almost structureless. Specks & dissems. of sulph. throughout. Some blebs of bluestone type ore. Sulph. in total weak.
914'	944'	30'	100%	30°	Sheared & broken core 914-917'. Dark Grey f.g. silic. tuff section. Sulph. weak to absent.
944'	963'	19'	100%	40°	Massive pale grey rhy., silic. strgs. & blebs of f.g. sulph. of bluestone type but very weak.



DIAMOND DRILL LOG  
=====HOLE NO. IM-10PROPERTY PARYS MOUNTAIN (BLUESTONE)

From	To	Length	Recovery	Core Angle	Description
963'	1003'	40'	100%		Pale grey cherty highly silic. rhy. with some chlor. muscov. partings. Slightly porphyritic in places.
1003'	1006'	3'	100%		Silic. rhy. poss. qtzose or cherty with massive patches of bluestone type sulph., making up approx. 20% of core.
1006'	1056'	50'	100%	35°	Pale silic. f.g. cherty rhy. Some tuff. bands & strg. Sulph. very weak - occas. blebs & strgs.
1056'	1067'	11'	100%	30°	Silic. rhy. sequence as above with more frequent patches of bluestone type sulph. Total sulph. less than 5% of core
1067'	1126'	59'	100%		Silic. rhy. sequence. Sulph. very weak in occas. bands or vns.
1126'	1166'	40'			F.g. almost uniform grey cherty rhy. with chlor./muscov. partings - poss. tuff. zones Sulph. very weak. Occas. shears.  END OF HOLE

SAMPLE REPORT

HOLE NO. IM-10

PROPERTY PARYS MOUNTAIN (BLEUSTONE)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag	Au	
1613	170'0"	180'0"	10'	10'	0.02	< 0.01	< 0.01	4.30		Banded grey-green siliceous tuffaceous rhyolite. Chloritized with irregular patches sulphide of azufrom type (py)
1614	180'0"	190'0"	10'	9'	0.01	0.02	0.01	0.30		As above. Somewhat sheared with gouge. Remifying qtz, weak patches py.
1615	190'0"	205'0"	15'	15'	0.01	0.01	0.01	0.25		As above
1616	205'0"	211'0"	6'	6'	0.23	0.01	0.02	17.90		Chloritized, tuffaceous rhyolite sequence, silicified. Strong coarse py. with some cpy. 10% of core sulphide
1617	211'0"	220'0"	9'	9'	0.09	0.03	0.01	4.50		Highly silicified cherty pale rhyolite with chloritic tuffaceous zones and sporadic py.
1618	220'0"	255'0"	15'	15'	< 0.01	0.02	< 0.01	0.65		Pale grey highly silicified rhyolite Some fragmental chloritic zones with interstitial py., weak cpy.
1619	235'0"	240'0"	5'	5'	0.27	0.01	0.01	0.65		As above

SAMPLE REPORTHOLE NO. IM-10PROPERTY PARYS MOUNTAIN (BLUESTONE)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag	Au	
1620	240'0"	250'0"	10'	10'	0.43	< 0.01	0.01	0.35		Chert or cherty rhyolite, fragmented with irregular qtz. chlorite zones containing sulphide (py-cpy). Sulphide interstitially, 10% of core is mineralized.
1621	250'0"	256'0"	6'	6'	< 0.01	0.02	< 0.01	Tr		Black carbonaceous shale apparently barren.
										BREAK IN SAMPLING
1622	387'0"	393'0"	6'	6'	0.08	< 0.01	0.04	4.00		Chloritic cherty mixture - probably tuff or fragmental. Ramifying fine grained sulphide - mainly py, some cpy.
1623	393'0"	400'0"	7'	7'	0.06	0.39	0.43	5.30		Grey chert, quartzose patches. Stringers & patches of fine grained sulphide (py-cpy)
1624	400'0"	406'0"	6'	6'	0.86	0.45	1.00	17.00		Dark grey fine grained chert, strong stringers & blebs of sulphide of bluestone type. 10% core is sulphide (cpy-py-ga)
1625	406'0"	412'0"	6'	6'	0.61	0.11	0.48	7.30		Dark grey chert, quartzose patches, stringers of sulphide of bluestone type (py-cpy-ga). Sulphide 10% of core

SAMPLE REPORTHOLE NO. IM-10PROPERTY PARYS MOUNTAIN (BLUESTONE)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag	Au	
1626	412'0"	420'0"	8'	8'	0.03	0.02	0.03	8.50		Dense fine grained charbonaceous mudstone. Some blebs and patches of fine grained py.

Toloxed 19.11.1971

ALFRED H. KNIGHT LTD.

## DIAMOND DRILL LOG

HOLE NO. IM-12PROPERTY PARYS MOUNTAIN (MARQUIS)

## Tests

<u>Elevation</u>		<u>Bearing</u> 175°		<u>Depth</u>	<u>Bearing</u>	<u>Dip</u>
<u>Location</u>		<u>Dip</u> -80°		375'	312°	80°
<u>Started</u> 24/11/71		<u>Finished</u> 1/11/71		381	192°	63°
<u>Final Depth</u> 815'		<u>Casing</u> To 15'		816'		57°
<u>Core Size</u> BQ		<u>Driller</u> Rene Gervais				

From	To	Length	Recovery	Core Angle	Description
0'	15'				No Core
15'	47'	32'	95%	45°	Pale grey tuff. phyllitic shale, occas. irreg. qtz. Sheared at times, lim. on fract. planes
47'	96'	49'	100%		Pale grey phyllitic poss. tuff. shale with lim. partings & occas. irreg. qtz. Sheared at first.
96'	112'	16'	100%		As above some chlor. muscov. strgs.
112'	123'	11'	100%	40°	Broken prob. sheared grey phyllitic shale with massive irreg. qtz. patches. Qtz., white vuggy, some py.
123'	137'	14'	100%	40°	Pale grey - dark grey phyllitic shales
137'	154'	17'	95%		Somewhat sheared pale grey shales with carb. shale partings.
154'	168'	14'	100%		Grey shales with carb. shale partings. Phyllitic. Occas. masses of irreg. qtz.
168'	171'	3'	40%		Sheared frags. of phyllitic grey shale. Poss. fault(?)
171'	177'	6'	90%		Pale f.g. phyllitic shales.
177'	184'	7'	90%		Massive blue-grey tuff.(?) shale. Prob. chlor. Sheared, some irreg. qtz. strgs. (Greenstone)

## DIAMOND DRILL LOG

HOLE NO. IM-12

PROPERTY PARYS MOUNTAIN (MARQUIS)

From	To	Length	Recovery	Core Angle	Description
184'	186'	2'	70%	45°	Sheared as above.
186'	206'	20'	50%		Grey f.g. phyllitic shale. Sheared at times throughout with consid. core loss - fault zone(?)
206'	220'	14'	90%		As above rather more qtzose. Sheared at times with gouge, tuff. bands. Some weak dissem. py.
220'	237'	17'	100%		Greenish-grey hard phyllitic shale, prob. silic. in part. Irreg. patches of contorted white qtz. with py. - Carreg-y-doll type.
237'	294'	57'	100%		Greenish-grey phyllitic shale with irreg. bands of contorted white qtz. with sulph. (py-cpy) - Carreg-y-doll type. Some chlor. or tuff. bands.
294'	316'	22'	90%		Dense blue-grey prob. chlor. tuff or "greenstone". Consid. dissem. of sulph. throughout but partic. at commencement. Sulph. mainly py. but some cpy. makes up less than 5% of core.
316'	327'	11'	100%		Mixed rock consisting of bluish chlor. shaly tuff with consid. carb. or graph. partings. Some silic. zones with dissem. py. Otherwise sulph. in blebs & dissems. throughout.
327'	331'	4'	100%		Carb. shale with strong silic., poss. remob. qtz. Approaching Carreg-y-doll type. Sulph. dissems. & blebs - py, some cpy weak
331'	356'	25'	100%		Carreg-y-doll Lode Qtz. irreg. brecc., contorted with carb. argill. material. Poss. slumped remob. Sulph. py & cpy occurs sporadically throughout. Sulph. 5-50% of core

DIAMOND DRILL LOG  
=====

HOLE NO. IM-12

PROPERTY PARYS MOUNTAIN (MARQUIS)

From	To	Length	Recovery	Core Angle	Description
356'	381'	25'	100%		Carreg-y-doll Irreg. massive qtz. brecc., carb., argill. bands, partings & admixture as above. Sulph. sporadic, interst., py. Makes up less than 5% core
381'	385'	4'	No Core		Prob. old drift on footwall of Lode
385'	424'	39'	90%	50°	Gan. greenish-grey silic. tuff, poss. referred to as "greenstone". Bedding vis. in places. Some contortions of bedding. Qtz. vns. sporadically. No apparent sulph.
424'	445'	21'	90%		Grey to black carb. shales with bands of silic. tuff. Sheared sporad. throughout. Weak sulph. in blebs. Chlor/muscov. strgs.
445'	454'	9'	100%		Grey tuff. rhy. Occas. carb. shale partings
454'	487'	33'	100%	Contact 30°	Grey silic. tuff, somewhat gran. or gritty. Massive & fairly uniform. No apparent sulph.
487'	491'	4'	100%		F.g. grey cherty highly silic. rhy.
491'	516'	25'	100%	40° Approx.	Highly silic. tuff. rhy. Sequence, sometimes banded. Chlor. patches with carb. material & "buckshot py" occas.
516'	526'	10'	100%		Qtz. pale grey silic. rhy.
526'	536'	10'	60%		Sheared qtzose rhy., prob. tuff. in part. Prob. Fault Zone
536'	553'	17'	100%		Pale grey to white massive silic. rhy. Some tuff. bands.
553'	564'	11'	100%		Highly silic. argill. or tuff. rock. Poss. alt. sed. or tuff. rhy. Py. in blebs & masses sporad.



DIAMOND DRILL LOGHOLE NO. IM-12PROPERTY PARYS MOUNTAIN (MARQUIS)

From	To	Length	Recovery	Core Angle	Description
564'	596'	32'	100%		Flow banded & brecc. pale grey to white rhy. Some weak interst. py. in strgs.
596'	610'	14'	100%		Pale silic., qtzose rhy., prob. flow brecc. Weak sulph. interst. - py. - ga.
610'	636'	26'	100%	40°	Tuff. rhy. sequence, often well banded. sulph. zones. Occas. blebs of sulph. (py) Prob. some crystal tuff & alt. frag. Some fine qtz.
636'	672'	36'	100%		Pale grey flow banded rhy., some silic.; bands more tuff. in character and poss. even alt. frag. Sulph. weak to absent.
672'	756'	84'	100%	40°	Massive pale often whitish rhy. sequence. Some porphyritic zones. Poss. flow brecc., occas. frag. Sulph. weak to absent.
756'	776'	20'	100%		Pale highly silic. rhy., prob. flow brecc. Some tuff. bands.
776'	816'	40'	100%		Pale silic. rhy., some bands & patches of tuff and irreg. patches of chlor/muscov. ("talc"), cherty at times. Frag. towards end.
					END OF HOLE

## SAMPLE REPORT

HOLE NO. IM-12

PROPERTY PARYSM MOUNTAIN (MARQUIS)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1652	306'	316'	10'	10'	0.06	0.03	0.03	0.15		Dense blue-grey chloritic tuff or shale with carbonaceous or graphitic fraction "Greenstone" (?). Sulphide very weak
1653	316'	327'	11'	11'	0.04	0.03	0.03	0.10		Mixed rock - chloritic tuff (?) and carbonaceous or graphitic partings. Some siliceous zones with dissem. of py. Sulphide also in massive concentrations (py). 5% of core sulphide
1654	327'	331'	4'	4'	0.58	0.06	0.30	0.20		Carbonaceous shale with strong admixture of ramifying qtz., possibly remobilized. Approaches Carreg-y-dol type. Sulphide weak.
1655	331'	340'	9'	9'	0.45	0.06	0.15	0.15		Carreg-y-dol Lode Qtz. irregularly brecciated, con-torted with carbonaceous, argillaceous material. Possibly slumped. Sul-phide blebs and patches (py-cpy)
1656	340'	348'	8'	8'	1.76	2.55	4.80	0.20		Carreg-y-dol Lode Host rock as above. Sulphide irregular patches and blebs, strong at times. Sulphide about 10% of core (py-cpy)

PROPERTY PARYS MOUNTAIN (MARQUIS)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1657	348'	358'	10'	10'	0.98	0.10	0.35	0.15		Carreg-y-dol Lode Host rock as above. Sulphide considerably weaker and more or less pyritic.
1658	358'	366'	8'	8'	0.27	0.06	0.21	0.20		Carreg-y-dol Lode Host rock as above. Sulphide irregular interstitial, mainly py., but some cpx
1659	366'	371'	5'	5'	1.29	0.08	0.44	0.20		Carreg-y-dol Lode Host rock similar to above but rather more carbonaceous - argillaceous material. Strong disseminated py., some blebs, weak cpy.
1660	371'	381'	10'	10'	0.20	0.06	0.18	0.25		Carreg-y-dol Lode Host rock as above. Sulphide weak in occasional blebs and dissemi (py.)
	381'	385'								NO CORE - OLD DRIFT
1661	385'	396'	11'	8'	0.15	0.07	0.71	0.15		Granular greenish grey silicified tuff (?). Possibly originally called greenstone. Bedded. No apparent sulphide.  END OF SAMPLING

TEL: CODE 051 - 638 - 4793/4/5  
TELEX: 62648  
DATE: 7<sup>th</sup> January 1972

18 CHURCH ROAD  
SEACOMBE, WALLASEY  
CHESHIRE L44 6JG

ALFRED H. KNIGHT LTD

REFERENCE: 496856

TO: INTERMINE LIMITED

ROCK SAMPLES

SAMPLE NO:	Cu. %	gms/1000-K Ag.	Zn. %	Pb. %			
1652	0.06	0.15	0.03	0.03			
1653	0.04	0.10	0.03	0.03			
1654	0.58	0.20	0.30	0.06			
1655	0.45	0.15	0.15	0.06			
1656	1.76	0.20	4.8	2.55	DDH #111-12		
1657	0.98	0.15	0.35	0.10			
1658	0.27	0.20	0.21	0.06			
1659	1.29	0.20	0.44	0.08			
1660	0.20	0.25	0.18	0.06			
1661	0.15	0.15	0.71	0.07			

## DIAMOND DRILL LOG

HOLE NO. IM-14PROPERTY PARYS MOUNTAIN (CORONATION)

Tests

<u>Elevation</u>		<u>Bearing</u> 165		<u>Depth</u>	<u>Bearing</u>	<u>Dip</u>
<u>Location</u>		<u>Dip</u> -65°		500'	166.5°	56°
<u>Started</u> 11/11/71		<u>Finished</u> 21/11/71		1166'	168°	50°
<u>Final Depth</u> 1166'		<u>Casing</u>				
<u>Core Size</u> BQ		<u>Driller</u> Rene Gervais				
From	To	Length	Recovery	Core Angle	Description	
0'	30'				No Core	
30'	73'	43'	80%		30-66' Core lost about 8'. Core gen. broken, occas. sheared, lim. stained, grey phyllitic shale. Occas. sulph. vns. (py, cpy.) weak.	
73'	90'	17'	85%		Gen. sheared recov. of grey phyllitic shale & pale grey tuff or mudstn. with some coarse greywacke or tuff. Occas. irreg. qtz.	
90'	151'	61'	95%+		Uniform dark grey phyllitic shale, strgs. of qtz., poss. chlor. Sulph. in very occas. blebs & strgs.	
151'	166'	15'	100%		Uniform dark grey phyllitic shales, some sporadic gritty bands.	
166'	186'	20'	50%		Sheared broken recov. of dark grey phyllitic shales, gouge, frags.	
186'	235'	49'	60%		Dark grey phyllitic carb. mudstn. or shales. Sheared at times throughout giving frag. recov. Greyish zones - shales appear diff. from those above 166'. Sulph. in occas. large blebs (f.g. py.)	
235'	276'	41'	100%		Silic. greenish-pale grey massive rhy. with frag. zones. Sulph. gen. weak. Some py-ga. noted 237-238' in vn. qtz.	

DIAMOND DRILL LOG  
=====HOLE NO. IM-14PROPERTY PARYS MOUNTAIN (CORONATION)

From	To	Length	Recovery	Core Angle	Description
276'	295'	19'	100%	45°	Greenish-grey silic. prob. chlor. more tuff. rhy., banded, occas. qtz. strgs. Sulph. not apparent.
295'	307'	12'	100%		Greenish-grey silic. prob. chlor. tuff. rhy. No sulph.
307'	321'	14'	100%	45°	Very f.g. almost glassy, pale grey finely banded chert. Qtzose concentrations with weak dissem. sulph. (py-cpy-ga)
321'	339'	18'	100%	45° 70° Contact	Very f.g. banded chert as above with irreg. masses of white qtz. Weak dissem. of sulph. mainly py. Brecc. lower contact with shale?
339'	353'	14'	100%		Dark grey silic. prob. chlor. tuff. Fract. & sheared, brecc. upper contact. Irreg. white qtz.
353'	402'	49'	95%		Greenish silic. prob. chlor. tuff. Some frag. zones.
402'	414'	12'	100%		Pale tuff highly silic. rhy. with irreg. qtz. bands & masses (of White Rock). Bands or concentrations of f.g. sulph. (cp?) and & vns. of cpy.
414'	428'	14'	100%		Pale buff highly silic. rhy., as above but sulph. is much weaker in occas. concentrations & blebs.
428'	439'	11'	75%		Frag. recovery of chlor. tuff. rhy. Poss. shear or fault zone.
439'	480'	41'	100%		Grey silic. f.g. rhy. or tuff. Occas. gran. Scatt. dissem. of f.g. sulph. (py)
480'	490'	10'	100%		Frag., grey prob. chlor. tuff. rhy.
490'	499'	9'	100%	25°	Hard f.g. cherty grey silic. rhy. or tuff. Occas. strgs. of sulph. (py)

# DIAMOND DRILL LOG

HOLE NO. IM-14PROPERTY PARYS MOUNTAIN (CORONATION)

From	To	Length	Recovery	Core Angle	Description
499'	514'	15'	100%		More tuff. grey rhy., chlor. bands. Strgs. & dissem. of py., occas. py. grades.
514'	527'6"	13'6"	100%	30°	White grey striped flow banded rhy. or silic. tuff.
527'6"	555'	27'6"	100%	25°	Greenish grey silic. flow banded rhy. sequence. Frag. at times frags. & bands of chlor.(?) At times qtzose with strgs. of sulph. (py-cpy)
555'	586'	31'	100%		Grey-green silic. rhy. & tuff. rhy. sequence. Porphyritic at times or poss. crystal tuff. Occas. blebs & bands (py-cpy)
586'	633'	47'	100%		Grey-green flow banded rhy. porphyritic chlor./muscov. partings. Some dissem. sulph. zones, vns. sporadic (6" @ 596')
633'	658'	25'	100%		Pale grey frag. rhy. sequence. Some frags. contain dissem. f.g. sulph.
658'	688'	30'	100%	40°	F.g. cherty rhy. or chert. Chlor. partings & frags. Occas. banded.
688'	724'	36'	100%	35°	Frag. or autobrecc. rhy. & tuff sequence. Chlor. partings, some porphyry.
724'	737'	13'	100%	40°	Chert and finely banded cherty tuff. Qtz. bands chlor. partings.
737'	776'	39'	100%	45°	Pale grey brecc. highly silic. rhy. Chert bands themselves banded. Bands of sulph. (py-cpy). Some dissem. & concentrations, mineralization gen. weak.

DIAMOND DRILL LOG  
=====HOLE NO. IM-14PROPERTY PARYS MOUNTAIN (CORONATION)

From	To	Length	Recovery	Core Angle	Description
776'	808'	32'	100%		Pale to white highly silic. brecc. rhy., some very cherty zones. Sulph. sporadic in masses & bands (cpy-py, poss. ga). Sulph. makes up about 5% of core.
808'	823'	15'	100%		Pale grey silic. rhy. sequence, somewhat brecc. Weak blebs & strgs. & dissem. of sulph.
823'	832'	9'	100%	20°	Banded tuff. rhy. sequence, prob. chlor. some cherty bands. Sulph. fine dissem. mainly interstitial, occas. blebs, mainly py
832'	867'	35'	100%	40°	Highly silic. cherty rhy. with alt. tuff. zone, some irreg. white qtz. Chlor. muscov. zones. Sulph. irreg. in patches blebs, concentrations (py-cpy) - less than 5% sulph.
867'	927'	60'	100%	20°	White or pale cherty f.g. rhy., alt. with silic. tuff. zones, occas. frag. Few bands & blebs of sulph. - weak.
927'	945'	18'			Highly qtzose, poss. alt. tuff or sed. zone. Some chlor. & carb. material (or White Rock) 5-7% sulph. (mainly py.)
945'	952'	7'	100%	40°	Qtzose tuff. rock with much white qtz. Sulph. irreg. massive (py-cpy-ga). Sulph. makes up 25-30% of the core
952'	969'	17'	100%		Frag. tuff. rhy. Fine qtz. irreg. Bands & patches of massive sulph. (py-cpy). Sulph. makes up 10% of core
969'	1015'	46'	100%		Grey-dark grey variable silic. frag. rhy. sequence. Argell. & chlor. zones assoc. with develop. of azufron type sulph. - coarse pyritic, less than 5% of core is mineralized.



## DIAMOND DRILL LOG

HOLE NO. IM-14

PROPERTY PARYS MOUNTAIN (CORONATION)

From	To	Length	Recovery	Core Angle	Description
1015'	1032'	17'	100%		Frag. & tuff. chlor. rhy. sequence. Sulph. throughout, gen. pyritic, but some spy or ga. in blebs, dissem. & f.g. concentrations. Sulph. makes up 10-15% of core
1032'	1075'	43'	100%		Massive greenish tuff. frag. chlor. rhy. Chlor. zones containing azufron py. occur sporadically.
1075'	1098'	23'	100%	Var.	More silic. cherty rhy., frag. qtzose. Dark black chlor(?) zones containing azufron py. (of IM-7). Azufron zones make up 20% of total core.
1098'	1166'	68'	100%	Var.	Massive greenish frag. rhy. with occas. patches of py. sulph. Chlor., tuff. zones sporadically. Occas. white qtz. patches
					END OF HOLE

SAMPLE REPORTHOLE NO. IM-14PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1627	785'	793'	8'	8'	0.08	<0.01	0.01	1.50		Pale to white highly silicified brecciated rhyolite. Sulphide bands and blebs, py.
1628	793'	796'	3'	3'	1.12	0.20	0.02	16.60		As above but strong sulphide at 794-795' and in stringers after mud with quartz. Sulphide about 20% of core (py-cpy)
1629	796'	816'	20'	20'	0.01	<0.01	0.01	2.00		Pale grey massive silicified rhyolite. Brecciated at times, perhaps cherty. Sulphide weak, interstitial (py) or in sporadic bands
1630	816'	836'	20'	20'	0.01	0.01	0.01	13.00		As above
1631	836'	846'	10'	10'	0.08	0.01	0.02	1.70		As above, some brecciated rhyolite with white quartz. Sulphide in sporadic patches and blebs (py)
1632	846'	859'	13'	13'	<0.01	<0.01	0.01	3.50		Grey flow banded rhyolite. Some tuffaceous banded zones, some breccia. Sporadic py. in chloritic zones.

SAMPLE REPORT

HOLE NO. IM-14

PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1633	859'	867'	8'	8'	0.70	<0.01	0.02	15.50		Flow banded brecciated siliceous rhyolite. Patches and bands of chlorite muscovite. Sulphide (py) in massive patches and disseminations Cpy. interstitially associated with white quartz.
1634	867	886'	19'	19'	<0.01	<0.01	0.01	5.00		White or pale grey cherty rhyolite. Siliceous tuffaceous zones, occasional fragmentals. Sulphide very weak
1635	886'	916'	30'	30'	<0.01	<0.01	0.01	2.20		As above
1636	916'	927'	11'	11'	0.04	0.01	0.02	Tr		As above
1637	927'	945'	18'	18'	0.15	0.07	0.21	1.00		Highly quartzose, possibly altered tuff or a silicified sedimentary sequence. Chloritic (of White Rock) sulphide (py) but some Ga, Cpy makes up 5-7% of core
1638	945'	950'	5'	5'	1.41	0.07	0.14	5.50		Quartzose tuffaceous rock with much irregular white quartz. Sulphide irregularly massive (py-cpy-ga) makes up 25% of core
1639	950'	958'	8'	8'	0.16	0.01	0.01	Tr		Fragmental tuffaceous rhyolite Irregular white quartz. Sulphide in weak bands and blebs.

SAMPLE REPORTHOLE NO. IM-14PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1640	958'	967'	9'	9'	1.25	0.01	0.03	1.00		Fragmental tuffaceous rhyolite Bands and patches of massive sulphide (py-cpy) make up <20% of core
1641	967'	986'	19'	19'	0.28	0.01	0.05	Tr		Dark grey variable silicified fragmental rhyolite. Argillaceous and chloritic zones. Some azufrom py. sporadically.
1642	986'	1005'	19'	19'	0.04	0.02	0.13	Tr		As above
1643	1005'	1016'	11'	11'	0.01	< 0.01	0.01	2.00		As above, patches of dark chloritic material with azufrom type py. Sulphide 10% of core
1644	1016'	1024'	8'	8'	0.13	< 0.01	0.05	Tr		Silicified tuffaceous rhyolite. Sulphide, mainly py. in disseminations and blebs. Sulphide 10-15% of core. Weak cpy, ga.
1645	1024'	1030'	6'	6'	0.09	0.05	0.05	2.80		Fragmental and tuffaceous rhyolite, chloritized sulphide (py) throughout. 20% of core sulphide
1646	1030'	1056'	26'	26'	0.05	< 0.01	0.01	Tr		Massive greenish tuffaceous fragmental chloritized rhyolite sequence Chloritic zones with azufrom py. sporadically.

## SAMPLE REPORT

HOLE NO. IM-14

PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)				Description
					% Cu	% Pb	% Zn	Ag	
1647	1056'	1076'	20'	20'	0.06	<0.01	0.04	3.90	As for #1646
1648	1070'	1084'	8'	8'	0.19	<0.01	0.04	1.50	Siliceous cherty fragmental rhyolite quartzose and chloritic zones. Occasional chlorite zones with azufrom py.
1649	1084'	1089	5'	5'	0.23	0.01	0.04	Tr	As above, chloritic azufrom py., much stronger. Mineralized core makes up 60% of core
1650	1089	1098'	9'	9'	0.06	0.01	0.03	1.00	Greenish probably chloritic fragmental rhyolite & tuff. Sporadic azufrom py. patches making up 5-10% of core
1651	1098'	1116'	18'	18'	0.08	<0.01	0.04	2.00	Greenish silicified fragmental rhyolite. Azufrom chloritic patches occur sporadically (less than 5% of core)  END OF SAMPLING

DATE 6th December 1971

CHESHIRE L44 6JG

ALFRED H. KNIGHT LTD

Reference: 496257

TO: INTERMINE LTD.

## ROCK, CORE SAMPLES

[illegible]

## DIAMOND DRILL LOG

HOLE NO. IM-17PROPERTY PARYS MOUNTAIN (BLUESTONE)

Tests

Elevation		Bearing 355°		Depth	Bearing	Dip
Location		Dip -45°		250'		45°
Started 14/11/71		Finished 24/11/71		575'		54°
Final Depth 841'		Casing		725'		58°
Core Size BQ		Driller Rene Gervais				
From	To	Length	Recovery	Core Angle	Description	
0'	49'				No Core	
49'	57'	8'	90%	70°	Shale frags. much broken, kaol. tuff. bands Silurian(?)	
57'	60'	3'	100%	70°	Cindery light tuff. rock, buff colored. Poss. old cement(?)	
60'	105'	45'	80-85%	70° 80°	Black mudstn. alt. with pale grey shaly tuff or kaol. mudstn. Banded appearance, prob. Silurian. Core sheared & broken throughout	
105'	113'	8'	70%	45°	Carb. mudstn. with tuff. material. Shaly, broken recovery. Prob. fault at 110'	
113'	144'	31'	95%	90°	Alt. sporadically silic. pale grey rhy. frag. Sporadic weak sulph. (py.). Core much broken	
144'	149'	5'	Fragm. 100%		As above much alt. fract. & clayey	
149'	160'	11'	100%		Much alt. chlor. frag. rhy. Soft kaol. Weak specks sulph.	
160'	224'	64'	100%	80° 80°	Finely banded grey & grey-black tuffs & mudstns. Bedding planes nearly // to core axis, core much broken.	
224'	229'	5'	Fragm. 100%	90°	As above, tuff. shales, much broken	

## DIAMOND DRILL LOG

HOLE NO. IM-17

PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
229'	266'	37'	100%	80° 80°	More carb. banded shales with grey (poss. tuff.) partings. Hard - slaty. Core much broken. Monograptus - 253-256'
266'	274'	8'	Fragm. 60%		Soft chlor. or talcose frags. Prob. alt. rhy. frag.
274'	292'	18'	100%		More competent more silic. grey green frag. rhy. Core broken, occas. blebs of sulph. Some proportion of crystal tuff.
292'	297'	5'	100%		As above somewhat softer & more broken, talcose.
297'	314'	17'	Fragm. 90%	90°	Much sheared, broken recovery of tuff. shales, greyish & finely banded.
314'	347'	33'	100%	90°	More tuff. banded shales, or mudstn. Some graded bedding, occas. shearing.
347'	395'	48'	100%	90° 90° 50°	Massive, pale grey f.g. mudstn. or tuffs, Occas. banded, fract.
395'	444'	49'	100%	80° 90°	Banded dark shaly tuff with pale zones. Occas. fract. pink zones
444'	488'	44'	100%	70° 60°	Tuff. shales becoming progressively more carb with isolated tuff bands, chert beds - thin & partic. towards end. Shales becoming graph.
488'	530'	42'	100%	0 - 60° Var.	Graph. or very carb. shales with chert bands & evidence of disruption of cherty member together with disorientation. Monograptus
530'	570'	40'	100%	40 - 0° Var.	Finely banded carb. shales with tuff intercal. (f.g. pale or pink). Some occas. zones with chert bands. Shales sometimes disrupted.



## DIAMOND DRILL LOG

HOLE NO. IM-17PROPERTY PARYS MOUNTAIN (BLUESTONE)

From	To	Length	Recovery	Core Angle	Description
570'	604'	34'	100%	20° Var.	Finely banded carb. shales with tuff material, occas. cherty bands, speckled at times.
604'	634'	30'	100%		Massive black carb. mudstn. with sporadic masses of fine grained py., 3-4% of core sulph.
634'	653'	19'	100%		Carb. mudstn. with coarser tuff. bands. Irreg. qtz. & sporadic sulph. (py). Fault zone 635-637', shale frags., gouge.
653'	686'	33'	100%		Brecc. tuff. material, poss. slumped. Some argill. chlor. material. Sulph. dissems, blebs - weak.
686'	716'	30'	100%		Brecc. tuff. material with chlor./muscov. frags. - poss. a slump breccia. Sulph. in fine dissems. or blebs.
716'	744'	28'	100%		Chert & argill. breccia with chert frags. (poss. bluestone ground). Chlor. muscov. patches & frags. Occas. vns. & blebs of py. interstit. (?) Sheared at times
744'	756'	12'	100%		As above but much sheared and fract.
756'	778'	22'	Fragm. 100%		Shale, chert. frags., some chlor. Much gouge & clay in major fault zone.
778'	803'	25'	80%		Sheared black carb. mudstn. with irreg. grey chert bands, often contorted. Weak cpy-py-ga-sph. (bluestone) Monograptus 796'
803'	820'	17'	95%	70-90°	Sheared, grey banded shales, prob. tuff. in part.
820'	841'	21'			Gouge, grey shale frags. in fault zone. Reduced to AQ at 824'
					END OF HOLE

## DIAMOND DRILL LOG

HOLE NO. IM-18PROPERTY PARYS MOUNTAIN (BLUESTONE)

Tests

Elevation		Bearing 155°		Depth	Bearing	Dip
Location		Dip -70°				
Started 27 /11/71		Finished 4/12/71				
Final Depth 264'		Casing				
Core Size BQ		Driller Rene Gervais				
From	To	Length	Recovery	Core Angle	Description	
0	50'				No Core	
50'	86'	36'	Fragm. 10%		Qtz. frags. & sand. Poss. fill or weath. Carreg-y-doll zone	
86'	91'	5'	50%		Qtz. brecc., much frag., some banded py. Carreg-y-doll Lode	
91'	102'	11'	Fragm. 40%		Frag. of qtz. and alt. kaol. tuff or shale	
102'	130'	28'	0%		No Core (Old Stope?)	
130'	137'	7'	45%		Qtzose, poss. tuff. sometimes banded rhy. or Carreg-y-doll. Lim. frags. Py. in coarse blebs, some weak cpy.	
137'	144'	7'	Fragm. 55%		Frag. recovery of white qtz., alt., vuggy. Lim. on fract., sporadic py. Carreg-y-doll	
144'	178'	32'	25%		Frag. recovery of qtz., alt. vuggy sometimes cherty. Strong bands of f.g. sulph. mainly py., very weak cpy. poss. Carreg-y-doll	
178'	193'	15'	95%		Carreg-y-doll Lode Mainly white qtz. or qtzose rhy., cherty in part, some argill. admixture. Qtz. brecc. contorted & typical of zone. Sulph. in irreg. strgs. & bands (py with some cpy.)	

# DIAMOND DRILL LOG

HOLE NO. 1M-18

PROPERTY PARYS MOUNTAIN (BLUESTONE)

From	To	Length	Recovery	Core Angle	Description
193'	200'	7'	100%		Carreg-y-doll Lode White contorted brecc. qtz. as above. Strong sulph. irreg. (py-cpy). 25% core sulph.
200'					Reduced to AQ
200'	212'	12'	75%		Carreg-y-doll White brecc. & contorted qtz. & qtzose rhy. (?) Sulph. in strgs. & bands (py) 5% of core
212'	223'	11'	25%		Carreg-y-doll Poor recovery of qtz. with pyritic sulph. bands. Some admixture of chlor. - argill. material.
223'	226'	3'	10%		Green chlor. tuff, frags. with buckshot py.
226'	249'	23'	30%		Carreg-y-doll Qtzose frags., chlor. qtzose rhy. (?), alt. kaol., green chlor. bands with buckshot py. Otherwise sulph. sporadic in blebs & dissems. (py)
249'	254'	5'	60%		Green chlor. tuff or shale prob. carb. admixture. Ramifying fine qtz. strgs. Blebs & dissems. of azufron type py.
254'	264'	10'	90%		Grey chlor. tuff with irreg. qtz., becoming shaly after 261'. Sporadic blebs of sulph.
					END OF HOLE
					Hole abandoned 4/12/71, due to severe caving of major proportions in the old Carreg-y-doll workings at 170'. 70' of A rods lost, stuck in hole.

## DIAMOND DRILL LOG

HOLE NO. IM-19PROPERTY PARYS MOUNTAIN (BLUESTONE)

Tests

Elevation		Bearing		Depth	Bearing	Dip
Location		Dip		407'	201°	86°
Started 6/12/71		Finished 13/12/71		746'		70°
Final Depth 796'		Casing				
Core Size BQ		Driller Rene Gervais				

From	To	Length	Recovery	Core Angle	Description
0	74'				No Core - Casing
74'	86'	12'	60%		Broken recovery of qtz., qtzose. rhy. (?) Some argill. material. Typical Carreg-y-doll zone.
86'	96'	10'	Fragm. 10%		Frag. of qtz., clay gouge. Perhaps old stope or fault zone.
96'	99'	3'	Fragm. 30%		Frag. of qtz., greenish silic. rhy. Poss. fault zone.
99'	111'	12'	40%		Hard silic. greenish rhy. or tuff. rhy. Some sporadic sulph. (py)
111'	117'	6'	20%		Paler variety of green silic. rhy., prob. tuff.
117'	131'	14'	Gouge		Prob. major fault zone
131'	155'	24'	100%		"Greenstone", shaly, prob. tuff or tuff. rhy. Soft weath., chlor., fract. Sulph. strong in bands & dissem. (py) of azufron type.
155'	196'	41'	100%	35°	Grey tuff or shaly tuff, somewhat greenish. Poss. tuff. rhy., chlor. Silic. in zones often cherty. Sulph. (py) in strgs., bands and blebs. Qtz. vns., chlor. muscov. vns. or patches.

DIAMOND DRILL LOG  
=====HOLE NO. IM-19PROPERTY PARYS MOUNTAIN (BLUESTONE)

From	To	Length	Recovery	Core Angle	Description
196'	210'	14'	100%		Much broken core. Grey-green, chlor. tuff. rhy. in bands with chlor. muscov. rich tuff. zones. Silic. in parts, sometimes carb. shale zones. Sulph. sporadic coarse py.
210'	228'	18'	100%		Silic. grey rhy. alt. with chlor. zones carrying massive azufron py. in gran. aggregate. Sulph. (azufron) makes up 25% of core
228'	261'	33'	100%		Grey silic. rhy., often f.g. cherty. Some chlor. zones containing azufron py. occur throughout. Core often broken, much fine qtz. at times.
261'	266'	5'	100%		Pale grey silic. rhy. core somewhat broken, Sulph., weak.
266'	272'	6'	100%		Silic. frag. pale rhy. with silic. frags. Sulph. (py) interstit. & in blebs & dissem. Some gran. aggregates of chlor. material & azufron py.
272'	292'	20'	100%		Variable, grey-greenish silic. frag. rhy. Poss. sed. in part. Becoming banded & tuff. towards end. Zones of gran. py. & some cpy. in chlor. zones, and also interstitially to frags. Sulph. min in 5% of core.
292'	301'	9'	90%		Carb. shale & cherty shale or tuff. Some cpy. in chert portion
301'	312'	11'	100%		Grey silic. rhy., cherty rhy. & tuff. 308-311' Soft clayey, prob. gouge, poss. shear zone. Some carb. in tuff. portion.
312'	345'	33'	100%	45°	Pale silic. rhy. & highly silic. banded acid tuff, and frags. Some bands of py, cpy. near commencement (319-320')
345'	432'	87'	100%	45° 45° 45°	Pale variably silic. rhy. & silic. tuff, occas frags., crystal tuff, banded shaly tuff. Qtz. vns. - occas. weak py.

# DIAMOND DRILL LOG

HOLE NO. IM-19

PROPERTY PARYS MOUNTAIN (BLUESTONE)

From	To	Length	Recovery	Core Angle	Description
432'	445'	13'	95%		Pale variably silic. rhy. weath. & alt. with decomposed zones, vuggy cavities, cavities after crystal py.
445'	457'	12'	30%		Shatt. zone with sheared pale rhy., qtz. frags., clay gouge, weak py., occas. blebs. Fault Zone.
457'	467'	10'	100%	45°	Frag. rhy., silic., sheared at times. Tuff. at times, banded. Sulph. weak in strgs. & vns., poss. sphalerite
467'	506'	39'	100%		Grey silic. rhy. & tuff sequence, some crystal tuff, wide zones of frag. rhy. Sulph. very weak.
506'	518'	12'	100%	40°	Banded tuff. zone. Some frags. of chert & chlor. muscov. Poss. alt. sed. material. Strong py. dissems. & masses irreg. throughout.
518'	526'	8'	100%	40°	Banded tuff. Some frag. tuff. Silic. in part.
526'	534'	8'	100%	35°	Banded cherty tuff or slumped material. Much chlor. muscov. & prob. argill. material.
534'	556'	22'	100%		Blue chert often brecc. with occas. banded tuff. material with chlor. Sulph. (cpy) sporadic in thin vns. throughout, weak. Some py. Bluestone Ground(?)
556'	570'	14'	100%	30° 35°	Banded chlor./muscov. rich, tuff. material & shaly tuff.
570'	610'	40'	100%	25°	Banded tuff. material with chlor. muscov., chert frags., sheared 570'. Occas. frag. tuff zones. Becoming massive & f.g.
610'	644'	34'	100%	10°	Grey tuff. shale alt. with black carb. shales at first, wholly carb. at end. Sulph. py. in blebs & bands irreg. Poss. mono-graptus in carb. shales.

DIAMOND DRILL LOG  
=====HOLE NO. IM-19PROPERTY PARYS MOUNTAIN (BLUESTONE)

From	To	Length	Recovery	Core Angle	Description
644'	688'	44'	100%		Cherty frag. chlor. muscov. rich alt. hard & soft bands. Poss. tuff., more likely a slump zone of sed. origin. Sulph. weak to absent.
688'	733'	45'	100%	20°	Silic. & frag. "rhy." sequence with large green frags. of chlor./muscov. Poss. a tuff or slump zone. Chert at times. Sulph. very weak.
733'	737'	4'	50%		Frag. of qtzose material & sheared tuff. & chlor. rhy. Poss. Fault Zone
737'	744'	7'	80%		White rhy. becoming tuff. and chlor. Sheared 741-744' with gouge. Poss. shear zone assoc. with above.
744'	896'			30° 35°	Rhy. breccia or frag. with cherty frags, chlor./muscov. zones, alt. with banded tuff. zones or massive grey tuff. Sulph. extremely weak.
					END OF HOLE

SAMPLE REPORTHOLE NO. IM-19PROPERTY PARYS MOUNTAIN (BLUESTONE) (Presumed Golden Venture Lode)

Sample No	From	To	Length	Recov'd Length	Assays				Description
					% Cu	% Pb	% Zn	Gms/1000 Kilos)	
1662	210'	220'	10'	10'	0.01	0.03	0.02	0.20	Silicified grey felsite or tuff with large chloritic zones containing azufrom py. (sulphide 20-25% core)
1663	220'	230'	10'	10'	0.03	0.02	0.03	0.15	As above Azufrom py. 15-20% of core
1664	230'	246'	16'	16'	0.01	0.01	0.02	0.15	Grey siliceous rhyolite or tuff, often cherty. Hard weak sulphide (py)
1665	246'	255'	9'	9'	0.01	0.01	0.05	0.15	Grey cherty siliceous and cherty rhyolite. Some chloritic zones with azufrom py (weak)
1666	255'	266'	11'	11'	0.01	0.01	0.10	0.20	Rock type as above Azufrom py. in chlorite, very weak
1667	266'	272'	6'	6'	0.25	0.04	0.04	0.15	Silicified pale fragmental rhyolite similar to Carreg-y-dol type. Sulphide interstitial (py-cpy) and also azufrom
1668	272'	276'	4'	4'	0.02	0.04	0.03	0.20	Silicified grey fragmental rhyolite Sulphide weak
1669	276'	286'	10'	10'	0.16	0.01	0.02	0.15	Pale grey-white massive silicified rhyolite. Occasional chloritic with py (weak)



PROPERTY PARYS MOUNTAIN (BLUESTONE) (Presumed Golden Venture Lode)

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1670	286'	289'	3'	3'	2.16	0.03	0.03	0.20		Silicified grey rhyolite or tuff, chloritic at end with "buckshot" cpy/py making up 25% of core
1671	289'	296'	7'	7'	0.02	0.02	0.02	0.15		Chloritic banded tuff passing to carbonaceous shales after 292' Sulphide weak to absent.
			BLUESTONE		GROUND					
1672	526'	536'	10'	10'	0.25	0.01	0.03	0.20		Banded cherty tuff or siliceous slump. Chlorite muscovite rich. Sulphide weak.
1673	536'	450'	4'	4'	0.10	0.01	0.02	0.20		Bluish cherty material, cherty tuff some patches of py (little cpy)
1674	540'	546'	6'	6'	0.86	0.01	0.03	0.25		As above. Py. and cpy. in sporadic stringers and blebs.
1675	546'	556'	10'	10'	0.36	0.02	0.05	4.20		Cherty tuff, chert. Probable slumped siliceous material. Weak sulphide (py-qty)
										END OF SAMPLING

FILE NO: 62-48

DATE: 20 January 1972

138 CHURCH OF ROSE

SEACOMBE WALLASEY

CHESHIRE LA4 6JG

ALFRED H. KNIGHT LTD

REFERENCE: 496856

TO: INTERMINE LIMITED

## ROCK SAMPLES

[illegible]

Yours faithfully,  
  
 ALFRED H. KNIGHT LTD.

## DIAMOND DRILL LOG

HOLE NO. IM-20PROPERTY PARYS MOUNTAIN (MARQUIS)

Tests

Elevation		Bearing 175°		Depth	Bearing	Dip
Location		Dip -70°		454'	125	45°
Started 2/12/71		Finished 6/12/71		454'		59°
Final Depth 578'		Casing to 50'		578'	167°	59°
Core Size BQ		Driller Gervais				62°
From	To	Length	Recovery	Core Angle	Description	
0'	50'	50'			No Core	
50'	53'	3'	50%		Blue grey, green chlor. tuff. "greenstone" Much fract., oxidized	
53'	60'	7'	70%	45°	Soft tuff. shale with bands of chlor., muscov. (talc). Poss. frag.	
60'	96'	36'	100%		Silic. grey rhy. sequence, some qtz. vns. Occas. sheared. Thin chlor. (carb. zones) with weak py.	
96'	112'	16'	100%		Grey silic. rhy. alt. with broad zones of blues-grey chlor. shale or tuff containing buckshot py. Qtz. vns.	
112'	126'	14'	100%		Grey silic. rhy. sequence. Cherty zones. Thin qtz. vns.	
126'	175'	49'	100%		Grey silic. rhy. with broad blue-grey chlor./ argill. zones containing bornite stained azufron py. Irreg. strgs. & vns. of qtz.	
175'	229'	54'	100%		Grey or dark grey silic. rhy. sequence, prob. tuff. in part, occas. frag. Occas. chlor./argill. zone with azufron py. Strongly qtzose at times, qtz. vns.	
229'	253'	24'	80%		Pale frag. silic. rhy. with some tuff bands. Sheared throughout.	

# DIAMOND DRILL LOG

=====

HOLE NO. 1M-20PROPERTY PARYS MOUNTAIN (MARQUIS)

From	To	Length	Recovery	Core Angle	Description
253'	268'	15'	100%	40°	Tuff. rhy., prob. tuff. shales, sheared at times.
268'	272'	4'	25%		Tuffaceous shale, Clay Gouge - talcose Fault zone
272'	281'	9'	100%	30°	Tuff. rhy. or alt. sed. Prob. also tuff. shale in part. Crystal tuff(?)
281'	302'	21'	95%	30°	Tuff. rhy. or alt. sed. shaly tuff. Shear at 295' (talcose)
302'	345'	43'	100%		Grey silic. tuff or rhy. often highly silic., qtzose, softer tuff bands. Frag. or flow banded at times. Sulph. weak to absent.
345'	348'	3'	30%		Talcose, tuff. frags. Fault zone
348'	386'	38'	100%	35°	Banded tuff. rhy. as in 272-302', poss. alt. sed. or shaly tuff. frag.
386'	406'	20'	100%	35°	Tuff. rhy., shaly tuff strongly chlor./muscov rich, poss. frag. Sulph. present but very weak. Strongly sheared at times (405')
406'	408'	2'	100%		Frag. tuff with cherty, muscov. chlor. frags. Poss. slumped zone. Sulph. in ramifying vns. or strgs. (py) Bluestone Zone
408'	427'	19'	100%	25°	Dark grey and black well cleaved carb. or graph. shales with lighter tuff. bands. Monograptus - Silurian Shales
427'	435'	8'	100%	30°	Pale grey to pink massive structureless tuffs, occas. greenish chlor. partings.
435'	443'	8'	100%		Pale grey-dark grey banded tuff. shales. Grey chert bands
443'	465'	22'	90%	40°	Carb. shales & mudstns. alt. with grey tuff. shales. Monograptus common.

DIAMOND DRILL LOG  
=====HOLE NO. IM-20PROPERTY PARYS MOUNTAIN (MARQUIS)

From	To	Length	Recovery	Core Angle	Description
465'	483'	18'	75%	40°	Sheared carb. shales & mudstns. with paler tuff. bands. Much sheared throughout, gouge at 482'
483'	485'6"	2'6"	100%		Carb. shales with blebs of f.g. py. with chert.
485'6"	498'	12'6"	100%		Blue-grey chert, Brecc. poss. slumped. Ramifying strgs. & vns. of py. & qtz. typical of Open Pit. Bluestone Ground(?)
498'	539'	41'	100%		Frag. rhy. and tuff with tuff. bands. Bands blebs of py. only at commencement to 526' (py., some ga.) Chlor. in parts, poss. slumped. Shear at 530'
539'	566'	27'	100%		Pale grey to white highly silic. brecc. (or frag. rhy.), kaol. Prob. Southern Felsite.
566'	578'	12'	100%		Pale grey to white silic. rhy., brecc. as above. Southern Felsite
					END OF HOLE

## DIAMOND DRILL LOG

HOLE NO. 1M-21PROPERTY PARYS MOUNTAIN

Tests

Elevation		Bearing 165°		Depth	Bearing	Dip
Location		Dip -80°		350'		68°
Started 9/12/71		Finished 9/1/72		400'	165°	67°
Final Depth 1146'		Casing		650'	161°	57°
Core Size BQ		Driller Rene Gervais		1000'		49°
				1130'	161°	56°

From	To	Length	Recovery	Core Angle	Description
0'	42'				No Core
42'	94'	52'	90%		Grey f.g. phyllitic shales, somewhat fract. at commencement with lim. staining. Qtz. vns., chlor., muscov. strgs.
94'	126'	32'	65%		Grey f.g. phyllitic shales, somewhat fract. throughout. Occas. qtz. vns., chlor. muscov. vns.
126'	135'	9'	Fragm. 5%		Fragm. of phyllitic shale. Prob. Fault Zone
135'	154'	19'	80%		Grey f.g. phyllitic shales, some carb. vns. chlor/muscov. vns.
154'	282'	128'	95%	30°	Gen. fairly uniform grey phyllitic shales, fract. at times, chlor. vns. Brecc. with qtz. & chlor. & weak py. 172-178' Shales have irreg. qtz. bands. Occas. coarser zones & may appear disrupted. Chlor. frags. & patches at times.
282'	346'	64'	90% to 100%	40°	Massive grey phyllitic shales, often broken, poss. sheared, some chlor. strgs.
346'	360'	14'	100%	40°	Green-grey phyllitic shales, somewhat banded with lenses & zones of more carb. shale. Qtz. abundant & highly irreg. ramifying, assoc. with sporadic py.

DIAMOND DRILL LOGHOLE NO. IM-21PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
360'	370'	10'	100%	30-35°	Grey phyllitic shales alt. with black carb. shales or mudstns. Some chlor.
370'	381'	11'	90%		Mainly black carb. shales or mudstns. Some chlor.
381'	390'	9'	100%		Grey-green & dark grey phyllitic shale often brecc. or disrupted with irreg. massive qtz. carrying weak sulph. (py. with some cpy) Poss. commencement of Carreg-y-doll type
390'	423'	33'	90%		Mixed rock group consisting of green, grey shales, greenish tuff or grit, grey silic. grit, hard silic. shales. Brecc. at times with irreg. ramifying qtz. of Carreg-y-doll type, weak sulph. - greenstone(?)
423'	466'	43'	85%	45°	Dark grey phyllitic shales, sheared at times generally uniform.
466'	478'	12'	50%		Sheared grey phyllitic shales, some gouge, much frag. Fault Zone
478'	510'	32'	100%		Grey phyllitic shales, some carb. bands towards end. Irreg. qtz. vns. & strgs. after 508'
510'	562'	52'	100%		Dark green/grey basic tuff or grit massive, at times finely frag. Occas. bands & patches of white qtz.
562'	587'	25'	100%		Olive & dark grey/black f.g. shale. Some irreg. white qtz.
587'	646'	59'	100%		Massive blue-grey phyllitic shales. Structureless.
646'	662'	16'	95%		Sheared grey phyllitic shales.
662'	674'	12'	100%		Grey phyllitic shales, banded. Patches & vns. of qtz. breccia with sulph. at end.

## DIAMOND DRILL LOG

HOLE NO. IM-21

PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
674'	686'	12'	100%		Massive qtz. breccia with interstit. sulph. (cpy-py). Carreg-y-doll Lode. More rhy. in last 2'.
686'	704'	18'	100%		Silic. greenish rhy. or tuff, poss. silic. greenstone. Sporadic weak py.
704'	747'	43'	100%		Silic. grey rhy. sequence, sometimes qtzose (of Carreg-y-doll) at others chlor. Sporadic strong py. mainly 715-718', but gen. weak.
747'	767'	20'	100%		Pale grey to white highly silic. massive rhy.
767'	782'	15'	100%		Tuff. rhy. or silic. acid tuff, pink in part, sometimes chlor. Sulph. sporadic interstit. in vns. and concentrations.
782'	800'	18'	100%		Pale whitish spotted silic. rhy. Pink towards end, chlor. muscov. bands black sulph. Silic.
800'	861'	61'	100%		Variable grey-dark grey tuff. rhy. highly silic. in gen. Some talcose (pink) areas with sporadic py. Sulph. gen. very weak.
861'	885'	24'	100%		Variable pale grey to white spotted rhy. (silic.) alt. with greyer tuff. & chlor. zones. Sporadic concentrations of gran. py. (azufron) occas. Min. weak.
885'	896'	11'	80%		Fract. recovery of grey silic. rhy. with some chlor. zones.
896'	925'	29'	30%		Mainly white silic. rhy. frags. Major Fault Zone.
925'	934'	9'	100%		Silic. grey tuff. rhy.
934'	936'	2'	Fragm. 100%		Silic. grey tuff. rhy. Frags. only in core.



## DIAMOND DRILL LOG

HOLE NO. IM-21

PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
936'	946'	10'	Fragm. 5%		Core Loss Silic. grey tuff. rhy. frags. only. Fault Zone
946'	965'	19'	Fragm. 15%		Core Loss Silic. grey-green tuff. rhy., frags. only Fault Zone
965'	980'	15'	40%		Grey tuff. rhy. Appears alt. & somewhat decomposed
980'	987'	7'	60%		Somewhat frag. recovery of grey tuff. rhy., alt. & decomposed, as above.
987'	996'	9'	100%		Silic. grey tuff. rhy. or tuff, somewhat fract.
996'	1005'	9'	Fragm. 80%		Broken frag. recovery of silic. rhy. or tuff. Alt. & decomposed. Some chlor. zones. Weak sulph.
1005'	1051'	46'	100%		Variable sequence of alt. silic. tuffs & rhy. or poss. alt. sed. Sulph. sporadic (py) of buckshot type in chlor. zones. Gen. weak.
1051'	1078'	27'	95%		Variable grey or dark grey silic. tuff or alt. sed. sequence. Chlor. zones. Sporadic massive patches of py., some sheared zones Sulph. gen. weak.
1078'	1123'	45'	100%		Greenish-grey silic. rhy. sequence with frag. & tuff zones. Qtz. strgs. Sulph. very weak - scatt. blebs & dissems. of py.
1123'	1143'	20'	95%		Silic. grey rhy. & frag. with bands of gran. greenish tuff. Some zones are qtzose & decomposed, fract. Sulph. (py & cpy) occur sporadically in scatt. strgs. & vns.
1143'	1146'	3'	50%		Broken, somewhat decomposed recovery of silic. rhy. frags., prob. shear zone.
					END OF HOLE

PROPERTY PARYS MOUNTAIN (DYERS SHAFT AREA)

Sample No	From	To	Length	Recov'd Length	Assays (Gms./1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1676	670'	674'	4'	4'	0.08	0.02	0.01	4.37		Grey phylitic shales. Some qtz. veins. Breccia patches with sulph. (py-cpy)
1677	674'	684'	10'	10'	0.50	0.02	0.04	2.63		Carreg-y-dol Lode Qtz. breccia with interstitial massive sulphide (cpy-py) Sulph. about 10% of core
1678	684'	696'	12'	12'	0.01	0.02	0.01	0.23		Silic. rhy. passing to silic. greenish tuff (greenstone?). Weak sulph.
1679	696'	706'	10'	10'	0.07	0.02	0.01	0.20		Silic. greenish rhy. with chloritic zones, some azufrom py.
1680	706'	715'	9'	9'	0.01	0.02	0.01	0.15		Silic. grey rhy., frag. Some chloritiz zones with azufrom py - weak
1681	715'	719'	4'	4'	0.01	0.06	0.12	0.15		Rock type as above. Some massive qtz. with sulph. (sporadic)
1682	719'	726'	7'	7'	0.01	0.01	0.01	0.15		More or less uniform grey silic. tuff or rhy. sequence. Finely dissem. sulph. at first, fading to end.

FLEX: 62640

DATE 7th January 1972

18 CHURCH ROAD

SEACOMBE, WALLASEY

CHESHIRE L44 6JG


ALFRED H. KNIGHT LTD

REFERENCE: 496856

TO:—

## ROCK SAMPLES

SAMPLE NO:	Cu. %	Pb. / 1000 K Ag.	Zn. %	Pb. %
1652	0.06	0.15	0.03	0.03
1653	0.04	0.10	0.03	0.03
1654	0.58	0.20	0.30	0.06
1655	0.45	0.15	0.15	0.06
1656	1.76	0.20	4.8	2.55
1657	0.98	0.15	0.35	0.10
1658	0.27	0.20	0.21	0.06
1659	1.29	0.20	0.44	0.08
1660	0.20	0.25	0.18	0.06
1661	0.15	0.15	0.71	0.07
1662	0.01	0.20	0.02	0.03
1663	0.03	0.15	0.03	0.02
1664	0.01	0.15	0.02	0.01
1665	0.01	0.15	0.05	0.01
1666	0.01	0.20	0.10	0.01
1667	0.25	0.15	0.04	0.04
1668	0.02	0.20	0.03	0.04
1669	0.16	0.15	0.02	0.01
1670	2.16	0.20	0.03	0.03
1671	0.02	0.15	0.02	0.02
1672	0.25	0.20	0.03	0.01
1673	0.10	0.20	0.02	0.01
1674	0.86	0.25	0.03	0.01
1675	0.36	4.20	0.05	0.02
1676	0.08	4.37	0.01	0.02
1677	0.50	2.63	0.04	0.02
1678	0.01	0.23	0.01	0.02
1679	0.07	0.20	0.01	0.02
1680	0.01	0.15	0.01	0.02
1681	0.01	0.15	0.12	0.06
1682	0.01	0.15	0.01	0.01

Yours faithfully,  
  
 ALFRED H. KNIGHT LTD.

## DIAMOND DRILL LOG

HOLE NO. 1M-22

PROPERTY PARYS MOUNTAIN

Tests

Elevation		Bearing 185°		Depth	Bearing	Dip
Location		Dip -70°		100'	221½°	67°
Started 16/12/71		Finished 11/1/72		500'		54°
Final Depth 1316'		Casing to 100'		560'		50°
Core Size BQ		Driller Rene Gervais		731'	167°	49°
				1000'		45°
				1070'		45°
				1182'		45°
From	To	Length	Recovery	Core Angle	Description	
0'	100'				No Core - Casing	
100'	145'6"	45'6"	100%		"Greenstone" Basic tuff or alt. dyke material, green in color, sometimes finely frag. Sporadic py. particularly at end. Occas. qtz.	
145'6"	191'	46'6"	100%		Grey shale sequence, indurated to 153'. Carb. & chlor. strgs. & zones, some with py. Some qtz. bands.	
191'	316'	125'	100%	40°	Massive grey f.g. phyllitic shales. Occas. vaguely banded, occas. strgs. of qtz. & py. Ordovician sequence.	
316'	345'	29'	100%		Grey shale sequence as above, some chlor. zones & irreg. qtz.	
345'	351'	6'	100%		Silic. shales & qtz. breccia with sporadic py (weak cpy.) Carreg-y-doll Lode(?)	
351'	390'	39'	100%		Grey-green shale with zones of qtz. breccia containing strong py-cpy. Carreg-y-doll Lode. Qtz. breccia with sulph. makes up 50% of core.	
390'	392'	2'	100%		Silic. green-grey shales.	
392'	467'	75'	100%		Grey, whitish silic. rhy., some chlor. talcose bands. Becoming cherty at end.	

DIAMOND DRILL LOG  
=====HOLE NO. IM-22PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
467'	483'	16'	100%	10°	Grey highly silic. rhy. - cherty zones, chlor., talc bands.
483'	490'	7'	85%		Silic. rhy., poss. tuff. Sporadic red Fe. oxides on joint planes.
490'	512'	22'	100%		Strongly silic. rhy. tuff, some chert bands, fine dissem. of sulph. vns. (py). Occas. specks of cpy.
512'	522'	10'	100%		Silic. tuff. rhy., fract. zones, chlor./ muscov. bands, some gouge. Poss. fault zone.
522'	546'	24'	100%		Grey, pale grey silic. tuffs or rhy. muscov./ chlor. bands, weak dissem. py., some oxide staining. 6" gouge at 534'.
546'	568'	22'	100%		Silic. tuff. Fract. zone between 546-550'. Some strgs. of py. assoc. with qtz. or frags.
568'	588'	22'	90%		Probable Fault Zone Gouge, fragmental zone - tuffs. Some finely dissem. py. sulph. (weak cpy. @ 586')
588'	601'	13'	95%		Highly silic. rhy. sequence or silic. tuffs. Zone is much fract. Fine ramifying strgs. & vns. of py. with occas. cpy. (White Rock type?) Sulph. less than 5% of core.
601'	622'	21'	100%		Grey silic. rhy. - alt. tuff - fine ramified vns. of py. mainly.
622'	631'	9'	90%		Grey silic. rhy, tuff fract. zone. More min. than above, fine remified vns. & some sulph. patches, occas. cpy. Less than 5% sulph.
631'	650'	19'	100%		Grey-green silic. rhy., poss. tuff, occas. vns. sulph. - mainly py.
650'	662'	12'	100%		Highly silic. rhy., cherty zone, fine ramified sulph. vns. assoc. with qtz. zone (poss. White Rock type). some cpy.

# DIAMOND DRILL LOG

HOLE NO. IM-22

PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
662'	686'	24'	100%		Brecc. silic. rhy., cherty frags., fine vns. py. min., occas. cpy.
686'	695'	9'	100%		Dark blue rhy., cherty frags., more qtzose zone, py. & cpy. min. (1' of massive sulph. (White Rock type)
695'	699'	4'	100%		Rhy., qtz. zone, White Rock(?), py. & cpy. min., about 5% sulph., mainly dissem., occas. coarse grained.
699'	716'	17'	90%		Variable tuff. rhy., chlor. muscov. patches qtzose zones, develop. of white qtz. Core broken. Sporadic dissem. & strgs. of sulph. (py)
716'	745'	29'	85%		Broken recovery of greyish highly silic. rhy. or tuff with darker argill. or chlor. zones. Some blebs of sulph., mainly py.
745'	758'	13'	90%		Prob. alt. silic. sed. or much alt. silic. tuff. material. Cherty often with irreg. masses fine white qtz. (White Rock type?). Sulph. irreg. often of "buckshot" variety (py & cpy) in chlor. zones, otherwise in bands & strgs. Some Pb. noted. Broken core. Min. core less than 10% total.
758'	790'	32'	100%		Grey alt. sed. or tuff as above. Silic. irreg., chlor. zones. Sulph. weaker in occas. strgs. & blebs. Fine white qtz. (of White Rock type) often ramifying & irreg.
790'	822'	32'	95%		Rock type as above. Sulph. 10% of core Sulph. stronger in patches, blebs, strgs. Much "buckshot" type azufon py., coarsely crystalline in chlor. zones.

DIAMOND DRILL LOGHOLE NO. IM-22PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
822'	853'	31'	95%	Var. 10°	Grey silic. alt. sed. or tuffs & rhy. Much fine qtz., chlor. zones. Sulph. very irreg. "buckshot" type in chlor. zones (mainly py). Also as blebs & bands (py & cpy). Sulph. about 10% of core
853'	868'	15'	80%		Pale grey to white silic. rhy. or silic. acid tuff. Chlor./muscov. rich. Sulph. very weak in dissem. & strgs.
868'	886'	18'	100%		Grey silic. tuffs & frags. or alt. silic. sed. group. Occas. weakly banded. Sulph. poor and very sporadic.
886'	916'	30'	95%		Silic. rhy. & frag. sequence with argill. & chlor. zones. Strongly qtzose at times. Sulph. sporadic, occas. massive patches (cpy) assoc. with qtzose zones. Sulph. 5% of core
916'	946'	30'	100%		Dark green grey alt. chlor. tuff or sed. (greenstone?). Silic. Sulph. sporadic in blebs & dissem. (py & cpy) throughout core.
946'	964'	18'	100%		Highly qtzose grey & white speckled, alt. tuff or sed. Sometimes vuggy chlor. or argill. fraction. Sulph. in blebs, cpy. in qtzose zones. Py. in chlor. portion. Latter occas. massive. Sulph. 5% of core
964'	976'	12'	100%		Graphitic shales - prob. chlor. alt. with silic. tuff? bands. Sometimes speckled with talcose? spheroids. Sulph. present in shaly portion in streaks & blebs of cpy. & py. Dissem. & blebs. of py. & cpy. throughout remainder.

DIAMOND DRILL LOGHOLE NO. IM-22PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
976'	990'	14'	100%		Grey and white f.g. cherty tuff or chert. Sulph., mainly py., sporadic, but massive. Some shaly, chlor. bands. Sulph. makes up 10% of core.
990'	996'	6'	20%		Poor recovery of blue grey chert decomposed zones with coarse py. & poss. other sulph. Fault Zone(?)
996'	1035'	39'	100%		Grey, yellowish silic. rhy. sequence with prob. tuff. or argill. zones. Frag. in part. Chlor. muscov. bands & partings. Some scatt. patches of coarse interst. py.
1035'	1070'	35'	100%	40°	Variable grey to white massive chert, occas. banded. Sheared throughout. Finely dissem. sulph. & also scatt. bands & patches of more massive sulph. (py & cpy) Sulph. 5-6% of core. Section similar to Open Pit Cherts
1070'	1097'	27'	100%		Grey silic. tuff. material passing to highly silic. alt. rhy. sequence with much fine qtz (poss. alt. sed. sequence). Greenish chlor./muscov. frags. at times. Sulph. in occas. concentrations & dissems. scatt. throughout.
1097'	1148'	51'	100%		Highly silic. frag. material with much fine qtz. Poss. vol. breccia or silic. slump material or shale. Sulph. sporadic in chlor. frags. or in occas. massive bands (py) making up 2-3% of core.
1148'	1175'	27'	100%	30°	Grey and white chert or poss. cherty tuff of rhy. Somewhat fract., occas. vaguely banded. Sulph. sporadic in blebs & patches (py, weak cpy). Sulph. makes up about 2% of core



DIAMOND DRILL LOGHOLE NO. IM-22PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
1175'	1215'	40'	100%		Silic. tuff. material, frag. with soft chlor. zones containing py. Some dissems. of sulph. in greyish frags. or blebs & dissems. interstit. Block shales with py. occur 1195-1197'.
1215'	1243'	28'	100%		White grey & pinkish silic. rhy. or fine tuff. Bands & patches of green chlor./ muscov. Sulph. weak.
1243'	1252'	9'	100%		Alt. basic tuff or greenstone with patches & bands of black shaly material - poss. chlor. shale. Somewhat fract.
1252'	1270'	18'	90%		Frag. silic. rhy. & greenish tuff. material (greenstone?). Some qtz. strgs. Sulph. very weak.
1270'	1282'	12'	100%		Grey to grey-green silic. rhy. sequence with patches strongly chlor. muscov. rich.
1282'	1286'	4'	100%		Alt. greenish tuff with frag. rhy. Some bands of black graph. or chlor. shale carrying streaks & blebs of py. More qtzose portion vuggy.
1286'	1293'	70'	100%		Pale yellowish-grey alt. acid tuff or rhy. Strongly chlor. muscov. rich.
1293'	1303'	10'	90%		Pale greenish-grey alt. decomposed prob. acid tuffs & crystal tuffs. Consid. broken & fract. with much gouge. Core gen. soft.
1303'	1316'	13'	100%	30°?	Massive yellowish-grey tuff or alt. rhy. Strongly chlor. muscov. rich throughout. Vaguely banded.
					END OF HOLE

SAMPLE REPORTHOLE NO. IM-22PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays					Description
					% Cu	% Pb	% Zn	ppm Ag		
1683	345'	356'	11'	11'	0.54	0.01	0.01	< 2.0		Silic. greenish shales with much qtz. brecc. & fine white qtz. Weak py. in qtz. brecc.
1684	356'	364'	8'	8'	1.21	0.01	0.01	2.3		Mixture of silic. green shale & finely brecc. ramifying qtz. with assoc. py. & cpy. Carreg-y-doll
1685	364'	369'	5'	5'	0.58	0.01	0.01	< 2.0		Mainly green shales with sporadic bands of qtz. brecc. containing minor sulph.
1686	369'	376'	7'	7'	0.58	0.01	0.01	2.0		Grey-green silic. shale with large bands & patches of qtz. brecc. & shale containing white qtz. & ramifying vns. & strgs. of py. & cpy. Carreg-y-doll
1687	376'	381'	5'	5'	0.36	0.01	0.03	< 2.0		F.g. grey-green shales with pale tuff zones. Scatt. bands of qtz. brecc.
1688	381'	390'	9'	9'	1.20	0.01	0.11	3.7		Silic. grey shales with abund. zones of qtz. brecc. & shale containing blebs, strgs. & dissem. of py. & cpy. Occas. massive sulph. 10-15% core Carreg-y-doll

SAMPLE REPORTHOLE NO. IM-22PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays					Description
					% Cu	% Pb	% Zn	ppm Ag		
1689	390'	396'	6'	6'	0.11	0.02	0.03	< 2.0		Grey shale passing after about 2' to silic. grey shales or tuffaceous rhy. & then to silic. rhy.
1690	746'	756'	10'	10'	0.11	0.02	0.03	2.0		Much alt. silic. tuff or sed. sequence Chlor. zones, cherty zone. Fine qtz. (White Rock type). Silic. py. weak cpy. Buckshot type. Strgs., 10% of core
1691	756'	762'	6'	5'	0.32	0.04	0.11	3.5		Grey chert or cherty tuff. Zones of strong gran. py. (some cpy) 10-15% of core
1692	762'	773'	11'	11'	0.08	0.03	0.06	< 2.0		Grey & white highly silic. alt. tuff or sed. Much white qtz. Sulph. weak.
1693	773'	782'	9'	9'	0.14	0.01	0.02	2.4		Grey silic. tuff or alt. argillaceous material. Silic. zones (White Rock?) containing sulph. bands, py. some cpy., 5-10% core mineralized.
1694	782'	792'	10'	10'	0.05	0.01	0.02	2.0		Rock type as above, fract. Sulph. weak.
1695	792'	800'	8'	8'	0.22	0.02	0.14	5.8		Rock type similar to above but more fine. qtz. (White Rock type?)

SAMPLE REPORTHOLE NO. IM-22PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays					Description
					% Cu	% Pb	% Zn	ppm Ag		
1695										Cont'd..... Sulph. about 10% of core (py, weak cpy.)
1696	800'	812'	12'		0.03	0.02	0.04	< 2.0		Mainly grey silic. tuff or argillaceous material. Occas. chl. bands with buckshot py. Sulph. about 5% of core
1697	812'	830'	18'	18'	0.18	0.01	0.03	2.8		Grey silic. tuff or alt. sed. while qtz. common. Some fract., chlor. zones with "buckshot" py. make up 15% of core. Weak cpy noted
1698	830'	845'	15'	12'	0.14	0.05	0.75	3.2		Highly silic. white granular rhy. (?) Strong sulph. irreg. throughout (py. & cpy. granular) with some chlor. Min. core 20% of total
1699	845'	868'	23'	23'	0.05	0.01	0.03	< 2.0		Pale grey silic. rhy. sequence, strongly chlor/muscov. rich after 862'. Sulph. very weak.
1700	868'	878'	10'	10'	0.06	0.01	0.03	2.0		Dark grey silic. tuffs or alt. argillaceous material. Sulph. weak.
1701	878'	895'	17'	17'	0.18	0.02	0.05	2.4		As above, becoming more qtzose & rhy. Sulph. weak in strgs. (py)

SAMPLE REPORT

HOLE NO. IM-22

PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays					Description
					% Cu	% Pb	% Zn	ppm Ag		
1702	895'	908'	13'	13'	1.21	0.01	0.04	3.4		Grey silic. tuff or frag. Poss. sed. patches of white qtz. with strong cpy. Also chlor. zones with py. Min. core 10% total.
1703	908'	919'	11'	11'	0.57	0.02	0.73	3.5		Grey. chlor. alt. tuff or sed. Highly silic. Chlor. zones contain buckshot py. with cpy. Min. core about 10% total.
1704	919'	934'	15'	15'	0.57	0.01	0.03	3.4		Dark grey alt. silic. tuff or sed. Sulph. sporadic (py., cpy.)
1705	934'	946'	12'	12'	0.15	0.03	0.04	2.5		Silic. green grey chlor. tuff (greenstone?). Sulph. sporadic in blebs & dissems. (mainly py., weak cpy.) Min. core 10% total.
1706	946'	958'	12'	12'	0.34	0.01	0.03	2.5		Qtzose (sometimes vuggy) grey speckled tuff or alt. sed. Sulph. sporadic, py. & cpy. less than 5% core
1707	958'	963'	5'	5'	1.16	0.02	0.04	5.2		Rock type as above. Sulph. in dissems. & blebs throughout, occas. massive in 10% of core. Sulph., py., some cpy.

# SAMPLE REPORT

HOLE NO. IM-22PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays					Description
					% Cu	% Pb	% Zn	ppm Ag		
1708	963'	971'	8'	8'	0.92	0.01	0.12	4.2		Black chlor. tuff or shale, poss. graph. Some grey tuff admixture towards end. Streaks of cpy. & py. irreg.
1709	971'	978'	7'	7'	1.66	0.22	0.32	7.7		Silic. shaly tuff or chlor. tuff. Spheroidal struct. in part speckled appear. Sulph. (py, cpy.) interstitially throughout
1710	978'	987'	9'	9'	0.49 Z	0.02	0.11	5.7		Grey & white fine grained chert or cherty tuff. Shaly chlor. bands. Sulph. sporadic, blebs, bands, occas massive patches. Min. core 20% of total.
1711	987'	996'	9'	4'	0.14	0.02	0.03	2.2		Grey-blue-grey fine grained chert. Sporadic py. - weak. Gouge 990-996' - Fault
1712	1035'	1042'	7'	7'	0.44	0.02	0.09	5.4		BREAK IN SAMPLING Grey & white fine grained chert with sporadic irreg. blebs & dissem. of sulph. py. & cpy. 5-10% core
1713	1042	1056'	14'	14'	0.09	0.02	0.01	4.5		Grey & pale grey chert, occas. whitish. Blebs & patches of sulph. scattered throughout.

SAMPLE REPORT

HOLE NO. IM-22

PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays					Description
					% Cu	% Pb	% Zn	ppm Ag		
1714	1056'	1070'	14'	14'	0.09	0.01	0.02	2.9		Grey chert, poss. more tuffaceous bands, strgs., patches or py. often ramifying - Open Pit Type
										BREAK IN SAMPLING
1715	1118'	1128'	10'	10'	0.02	0.01	0.02	4.4		Highly qtzose (of White Rock) tuff & frag. or alt. seds. Sulph. in sporadic patches & dissems (py, cpy.?)
1716	1128	1138	10'	10'	0.04	0.01	0.02	< 2.0		Silic. frag. tuffs & rhy. Sulph. scatt. in blebs & concentr., gen. weak.
1717	1138'	1148'	10'	10'	0.16	0.02	0.03	2.4		Silic. frag. rhy., much chlor. & argill. material, poss. slump area. Core min. with granular py. Core about 10% length.
1718	1148'	1165'	17'	17'	0.12	0.02	0.02	2.2		Grey & white chert & cherty tuff. Fract. recovery at times. Sulph. sporadic in blebs & dissems. - weak.
1719	1165'	1182'	17'	17'	0.02	0.01	0.01	< 2.0		Variable chert & cherty tuff or tuff. Sulph. weak & sporadic (py)
1720	1182'	1187'	5'	5'	0.17	0.01	0.02	< 2.0		Silic. tuff & frags. with soft chlor. zones containing sulph. (py)

## SAMPLE REPORT

HOLE NO. IM-22

PROPERTY PARYS MOUNTAIN

[illegible]



TEL CODE 051 - 638 - 4793/4/5

TELEX: 62648

DATE 24th January, 1972.

18 CHURCH ROAD  
SEACOMBE, WALLASEY  
CHESHIRE L44 6JGALFRED H. KNIGHT LTDDay Book No: 497645TO: Intermine.

SAMPLE NO:	Cu	Pb	Zn	Ag		
1683	0.54%	0.01%	0.01%	<2 ppm		
84	1.21%	0.01%	0.01%	2.3		
85	0.58%	0.01%	0.01%	<2		
86	0.58%	0.01%	0.01%	2		
87	0.36%	0.01%	0.03%	<2		
88	1.20%	0.01%	0.11%	3.7		
89	0.11%	0.02%	0.03%	<2		
90	0.11%	0.02%	0.03%	2		
91	0.32%	0.04%	0.11%	3.5		
92	0.08%	0.03%	0.06%	<2		
93	0.14%	0.01%	0.02%	2.4		
94	0.05%	0.01%	0.02%	2		
95	0.22%	0.02%	0.14%	5.8		
96	0.03%	0.02%	0.04%	<2		
97	0.18%	0.01%	0.03%	2.8		
98	0.14%	0.05%	0.75%	3.2		
99	0.05%	0.01%	0.03%	<2		
1700	0.06%	0.01%	0.03%	2		
1	0.18%	0.02%	0.05%	2.4		
2	1.21%	0.01%	0.04%	3.4		
3	0.57%	0.02%	0.73%	3.5		
4	0.57%	0.01%	0.03%	3.4		
5	0.15%	0.03%	0.04%	2.5		
6	0.34%	0.01%	0.03%	2.5		
7	1.16%	0.02%	0.04%	5.2		
8	0.92%	0.01%	0.12%	4.2		
9	1.66%	0.22%	0.32%	7.7		
10	0.49%	0.02%	0.11%	5.7		
11	0.14%	0.02%	0.03%	2.2		
12	0.44%	0.02%	0.09%	5.4		
13	0.09%	0.02%	0.01%	4.5		
14	0.09%	0.01%	0.02%	2.9		
15	0.02%	0.01%	0.02%	4.4		
16	0.04%	0.01%	0.02%	<2		
17	0.16%	0.02%	0.03%	2.4		
18	0.12%	0.02%	0.02%	2.2		
19	0.02%	0.01%	0.01%	<2		
20	0.17%	0.01%	0.02%	<2		
21	0.03%	0.01%	0.02%	2		

Yours faithfully,

ALFRED H. KNIGHT LTD

DATE 24th January, 1972.

18 CHURCH ROAD  
SEACOMBE, WALLASEY  
CHESHIRE L44 6JG

ALFRED H. KNIGHT LTD

Day Book No: 497645

- 2 -

TO: Intermine

[illegible]

Yours faithfully,

ALFRED H. KNIGHT LTD.

## DIAMOND DRILL LOG

HOLE NO. IM-23PROPERTY PARYS MOUNTAIN (TIDY-BEERS)

## Tests

Elevation		Bearing 180°		Depth	Bearing	Dip
Location		Dip -80°		300'		71°
Started 12/1/72		Finished 21/1/72		500'	178°	61.5°
Final Depth 1001'		Casing		700'	180°	61°
Core Size BQ Wireline		Driller Rene Gervais		700'		57°
				980'		56°

From	To	Length	Recovery	Core Angle	Description
0'	16'	16'			No Core
16'	123'	107'	95%	45°	F.g. phyllitic grey shales with occas. qtz. strgs., chlor. bands & patches. Occas. vague banding. Sheared at times throughout.
123'	149'	26'	100%	45°	Uniform grey f.g. phyllitic shales. Occas. vaguely banded
149'	151'6"	2'6"	100%		Small Lode Zone Qtz. breccia, chert, chert breccia with argill. or chlor. material. Massive irreg. py. with occas. cpy.
151'6"	213'	61'6"	100%	45°	More or less uniform grey phyllitic shales occas. qtzose zones (i.e. @ 166', 12") Strgs. of py. Vaguely banded, occas. shears
213'	250'	37'	90%		Grey and dark grey occas. well banded phyllitic shales. Occas. irreg. qtz. Weak py. in strgs. & blebs. Occas. sheared throughout.
250'	265'	15'	100%	40°	Grey phyllitic shales. Spotted throughout & banded.
265'	305'	40'	100%	40°	Grey phyllitic shales, banded with black carb. or chlor. shale partings. Occas. irreg. qtz. & spotted zones.

## DIAMOND DRILL LOG

HOLE NO. IM-23PROPERTY PARYS MOUNTAIN (TIDDY - BEERS)

From	To	Length	Recovery	Core Angle	Description
305'	338'	33'	95%		Grey/black banded shales with zones of shale breccia & irreg. qtz. breccia. Greenish in part, poss. chlor., poss. tuff. or slump material. Sulph. in qtz. breccia (py-cpy)
338'	347'	9'	100%		Mainly qtz. breccia with some silic. shale bands. Sulph. present in qtz. breccia (py, cpy) making up 5% of core. Prob. Hangingwall Lode
347'	364'	17'	100%		Massive silic. grey shale with brecc. zones carrying chert & qtz. breccia. Zones occur sporad. throughout. Shale poss. tuff.(?)
364'	384'	20'	100%		Mainly qtz. breccia zone with zones & bands of massive grey silic. (cherty) shale or fine tuff. Qtz. breccia irreg. min. with cpy. & py. Sulph. about 5% Hangingwall Lode
384'	390'	6'	100%		Massive indurated grey shale with occas. masses of qtz. brecc. carrying sulph. (py., weak cpy). Interzone
390'	395'	5'	100%		Massive qtz. breccia with interst. chlor. or argill. material. Sulph. (cpy & py) present to about 10% of core. Hangingwall Lode
395'	414'	19'	100%		Massive indurated grey, green-grey or dark grey shales, possibly tuff. Sporadic masses of qtz. breccia with sulph. (py) Weakening after 408'. Transition zone(?)
414'	433'	19'	100%	35°	Massive grey & dark grey shales. Vaguely banded. Irreg. qtz., very sporadically. Some chlor. zones.
433'	445'	12'	95%		Grey & green massive shales with some chlor. zones containing py. Occas. irreg. qtz.

## DIAMOND DRILL LOG

HOLE NO. IM-23

PROPERTY PARYS MOUNTAIN (TIDDY - BEERS)

From	To	Length	Recovery	Core Angle	Description
445'	462'	17'	100%		Grey, dark grey and green chlor. shales, talcose, tuff. Sporadic irreg. py. in dissem., blebs, strgs. in chlor. green fraction. Irreg. ramifying qtz. strgs.
462'	519'	57'	100%		Mixed zone of massive qtz. breccia, silic. shale, chlor. shale scatt. or slumped containing interstit. sulph. throughout (py, cpy) More massive 466-475'. Some zones (e.g. 512-519') appear black & shaly. Sulph. 5% of core. Carreg-y-doll/Golden Venture Lodes.
519'	533'	14'	100%		Massive green/grey highly silic. rhy. sequence. Sporadic chlor. patches containing irreg. py. in strgs. & vns.
533'	569'	36'	100%		Grey silic. rhy. sequence. Clay gouge 540-541' - Poss. fault. Prob. tuff. in part
569'	590'	21'	100%		Pale grey-white highly silic. rhy. sequence. Some chlor. interstit. zones containing py. Tuff. in part.
590'	636'	46'	100%		Pale grey to white often qtzose highly silic. rhy. Sporadic zones often chlor. with dissem. & blebs of sulph. (py). Sulph. also in strgs. & vns. (py)
636'	642'	6'	100%		Frag. silic. rhy., greenish in part - prob. chlor. with dissem. of f.g. py.
642'	663'	21'	100%		Pale grey-white highly silic. rhy. sequence
663'	678'	15'	100%	30°	Dark grey green-grey tuff. & prob. chlor. rhy. sequence. Some shearing.
678'	634'	6'	100%		Pale grey silic. rhy. Much sheared & broken. Poss. fault zone.

DIAMOND DRILL LOGHOLE NO. IM-23PROPERTY PARYS MOUNTAIN (TIDDY - BEERS)

From	To	Length	Recovery	Core Angle	Description
634'	733'	49'	100%	35°	Pale grey silic. rhy. Occas. chlor. muscov. bands. Irreg. fine qtz. & some vague banding, sheared. Some porphyritic phases. Occas. weak dissems. & bands of py.
733'	741'	8'	100%		Banded prob. tuff. rhy. Consid. sheared.
741'	772'	31'	100%		Massive pale grey-greenish chlor. rhy. sequence.
772'	736'	14'	100%		Greyish vaguely banded prob. tuff. rhy. Poss. flow banded, some brecc.
736'	789'	3'	100%		Somewhat broken recovery of greyish vaguely banded prob. tuff. rhy., chlor. muscov. rock - Shear Zone(?)
789'	892'	103'	100%		Pale grey, highly silic. rhy. sequence. Zones appear frag. Porphyritic appear. in rhy. over much of the section. Sheared at times throughout espec. near 802' & 841-852'
892'	901'	9'	100%		Pale - dark grey prob. frag. rhy. Dark tuff. zones, banded. Sulph. irreg. (py) strgs. & dissems.
901'	907'	6'	100%		Fract. recovery of chlor. & tuff. rhy. or tuff
907'	953'	46'	100%		Yellow-grey chlor./muscov. alt. rhy. sequence. Occas. "tuff." patches with weak py. dissems.
953'	972'	19'	100%		Strongly chlor. alt. tuffs. or sed. Much disrupted & broken - clumped(?)
972'	1001'	29'	100%	Yellow or brownish-grey highly silic. rhy. sequence. Some chlor. patches & bands. Occas. cherty frags. Sulph. blebs very weak.	
					END OF HOLE (21/1/72)

SAMPLE REPORTHOLE NO. IM-23PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)				Description
					% Cu	% Pb	% Zn	Ag	
1724	326'	336'	10'	10'	0.19	0.02	0.03	0.15	Grey black banded shales, disrupted qtz. brecc. bands irreg. containing (py, cpy.)
1725	336'	347'	11'	11'	0.97	0.03	0.10	0.04	Mainly qtz. brecc. with silic. shale bands. Sulph (py., cpy.) present in qtz. breccia.
1726	347'	356'	9'	9'	0.08	0.04	0.11	0.03	Massive silic. grey shale with brecc. zones carrying chert & qtz. brecc. sporadic sulph.
1727	356'	364'	8'	8'	0.01	0.01	0.02	0.02	As above. Less qtz. brecc.
1728	364'	370'	6'	6'	0.72	0.02	0.02	0.40	Qtz. brecc. zone with zones and patches of chert & silic. shale. Qtz. brecc. irreg. min. (py, cpy.)
1729	370'	375'	5'	5'	0.09	<0.01	0.05	0.75	Mainly massive chert & silic. shale. Some strgs. of sulph.
1730	375'	384'	9'	9'	0.54	<0.01	0.02	4.25	Mainly qtz. brecc. containing irreg. sulph., occas. massive (cpy, py) Cherty zones & silic. shales.
1731	384'	390'	6'	6'	0.07	<0.01	0.03	5.50	Massive grey shale indurated. Occas. masses of qtz. brecc. carrying sulph. interzone of lode area.

# SAMPLE REPORT

HOLE NO. IM-23

## PROPERTY

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1732	390'	396'	6'	6'	0.76	< 0.01	0.02	3.00		Massive qtz. brecc. with interstitial chlor. & argil. material. Sulph. (py, cpy) sporadic, interstitial.
1733	396'	406'	10'	10'	0.07	0.01	0.02	2.85		Massive indurated grey Green shales. Sporadic bands & patches of qtz. brecc. with weak py., cpy.
1734	406'	414'	8'	8'	0.08	< 0.01	0.01	0.25		Variable grey-dark grey shales, chlor. in part. Sporadic patches & dissems. sulph. (py, cpy.)
										BREAK IN SAMPLING
1735	458'	462'	4'	4'	0.08	< 0.01	0.01	0.04		Grey, dark grey chlor. shale, talcose prob. tuffaceous.
1736	462'	466'	4'	4'	0.06	< 0.01	0.02	0.20		Silic. & chlor. shales at times highly qtzose. Sulph. throughout in dissems. & strgs. (py., weak cpy.)
1737	466'	476'	10'	10'	0.50	0.01	0.03	0.15		Mixed rock type as above. Sulph. much stronger, occas. massive py. with subordinate cpy.
1738	476'	486'	10'	10'	0.16	0.01	0.02	1.50		Highly qtzose, alt. slumped argill. & chlor. mass. Interstitial sulph. throughout, mainly py. poss. weak cpy.



SAMPLE REPORTHOLE NO. IM-23PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1739	486'	496'	10'	10'	0.39	0.02	0.04	3.85		Rock type & min. as above.
1740	496'	506'	10'	10'	0.18	0.01	0.03	2.25		Rock type & min. as above.
1741	506'	520'	14'	14'	0.47	0.03	0.06	4.25		Silic. grey shale or tuff with black carb. or chlor. shale bands. Sporadic dissem. & concentrations of py. associated with chlor. fractions
1742	520'	524'	4'	4'	0.09	0.01	0.03	4.75		Massive grey highly silic. rhy. sequence.  END OF SAMPLING

DATE 4th February 1972

SLACOMBE, WALLASEY  
CHESHIRE L44 6JG

ALFRED H. KNIGHT LTD

Reference: 497058

TO: INTERMINE (CANADA) LTD.

ROCK SAMPLES

SAMPLE NO:	Cu. %	Pb. %	Zn. %	Ag. gms/1000 Kg.		
1724	0.19	0.02	0.03	0.15	#1M-23	
1725	0.97	0.03	0.10	0.04		
1726	0.08	0.04	0.11	0.03		
1727	0.01	0.01	0.02	0.02		
1728	0.72	0.02	0.02	0.40		
1729	0.09	< 0.01	0.05	0.75		
1730	0.54	< 0.01	0.02	4.25		
1731	0.07	< 0.01	0.03	5.50		
1732	0.76	< 0.01	0.02	3.00		
1733	0.07	0.01	0.02	2.85		
1734	0.08	< 0.01	0.01	0.25		
1735	0.08	< 0.01	0.01	0.04		
1736	0.06	< 0.01	0.02	0.20		
1737	0.50	0.01	0.03	0.15		
1738	0.16	0.01	0.02	1.50		
1739	0.39	0.02	0.04	3.85		
1740	0.18	0.01	0.03	2.25		
1741	0.47	0.03	0.06	4.25		
1742	0.09	0.01	0.03	4.75		
1743	0.15	0.01	0.01	1.25	#1M-24	
1744	0.13	0.01	0.01	0.20		
1745	0.09	0.01	0.01	0.25		
1746	0.15	0.03	0.03	0.05		
1747	0.24	0.03	0.04	0.05		
1748	0.04	0.04	0.04	1.20		
1749	< 0.01	0.02	< 0.01	0.20		
1750	< 0.01	0.01	0.01	0.25		
1751	< 0.01	< 0.01	0.05	0.04		
1752	< 0.01	< 0.01	0.01	0.03		
1753	< 0.01	0.02	< 0.01	0.03		
1754	< 0.01	0.02	0.02	Trace		
1755	0.47	0.01	0.03	0.02		
1756	0.19	0.01	0.02	0.02		
1757	1.1	0.01	0.03	0.10		
1758	0.20	0.01	0.15	Trace		
1759	0.14	0.01	0.04	0.04		
1760	< 0.01	0.01	0.01	0.04		
1761	0.14	0.05	0.02	1.75		
1762	0.12	0.02	0.04	0.15		

Yours faithfully,

ALFRED H. KNIGHT LTD.

## DIAMOND DRILL LOG

HOLE NO. IM-24PROPERTY PARYS MOUNTAIN

## Tests

Elevation		Bearing 170°		Depth	Bearing	Dip
Location		Dip -70°		400'	193°	56°
Started 14/1/72		Finished 24/1/72		500'		47°
Final Depth 1333'		Casing 0-15' - No Core		700'		42°
Core Size BQ		Driller Rene Gervais		1100'		43°
				1330'		43°
From	To	Length	Recovery	Core Angle	Description	
15'	36'	21'	100%	30°	No Core much broken, f.g. grey phyllitic shaly. Lim. stained. Occas. irreg. qtz. masses.	
36'	121'	85'	100%		F.g. grey phyllitic shale with occas. shear planes with Fe. oxide stain. Some small qtz. strgs., chlor./qtz. strgs.	
121'	146'	25'	95%		F.g. grey phyllitic shales with some chlor. or carb. fraction. Zones of shale breccia & qtz. breccia, few but increasing to end.	
146'	176'	30'	100%		F.g. grey & dark grey shales with massive qtz. breccia & vns. irreg. throughout. Often qtz. contains masses of py. or blebs of cpy. - poss. Carreg-y-doll Type.	
176'	192'	16'	95%		Grey f.g. phyllitic shales, much sheared with clay gouge, frag. Poss. shear or fault zone.	
192'	205'	13'	90%		Phyllitic grey shales with much qtz. breccia carrying sporadic sulph. (py) Carreg-y-doll Type.	
205'	229'	24'	95%		Gran. black speckled grey-green alt. basic tuff or silt, much fract. so called Greenstone	
229'	256' 6"	27' 6"	100%		Alt. soft basic tuff or silt, core much broken, green, yellow/green gran. speckled black.	

## DIAMOND DRILL LOG

HOLE NO. IM-24PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
256'6"	321'	65'6"	100%	35°	Massive grey shale sequence, phyllitic clay gouge (Fault?) 264-265'.
321'	327'	6'	100%		Massive grey shale penetrated by irreg. qtz. strgs. & massive white qtz. Poss. small Hangingwall Lode as qtz. in assoc. with py. & cpy.
327'	408'	81'	100%	35° 30°	Massive grey shales, often structureless, Occas. banded.
408'	426'	18'	100%		Massive grey shale sequence showing strgs. of disruption. Development of irreg. bands & patches of qtz. breccia with chlor. containing sulph. (py.)
426'	446'	20'	100%		Irreg. contorted & brecc. "porridge" of qtz., chert, chlor. & argill. material. Sulph. scatt. (cpy, py) & highly irreg. Poss. slump zone - Carreg-y-doll Type
446'	456'	10'	100%		Grey-green shale with bands & patches of qtz. breccia with sulph.
456'	470'	14'	100%		Qtz. breccia, grey-green shale, all brecc. & contorted. Sporadic sulph. dissems. & interstit. - prob. Carreg-y-doll Zone. Prob. slump zone.
470'	478'	8'	100%		Silic. grey & dark grey rhy. Strgs., bands & patches of sulph, mainly py.
478'	536'	58'	100%		Pale grey highly silic. rhy. Sporadic bands blebs and dissems. of sulph. partic. 497-501' where sulph. constitutes 15% of the zone.
536'	560'	24'	100%		Massive grey or pale grey highly silic. rhy. sequence. Some irreg. patches & streaks of yellow carb.(?) Tuff. in part. Fine strgs. & dissems. of sulph.

DIAMOND DRILL LOG  
=====HOLE NO. IM-24PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
560'	650'	90'	100%		Variable grey - pale grey silic. rhy. sequence Zones of darker grey, prob. silic. tuff material. Sporadic yellowish patches & spots of carb. throughout.
650'	676'	26'	100%		Green-grey silic. tuff. & frag. rhy. sequence black sulph. in dissems. & occas. blebs. Prob. chlor.
676'	680'	4'	100%		Sheared yellowish-grey silic. rhy. Sheared throughout. Patches & strgs. of py.
680'	750'	70'	100%	35°	Pale grey - green grey highly silic. tuff. rhy. or alt. silic. tuff. Occas. weakly banded. Occas. black chlor. zones containing coarse azufron type py.
750'	770'	20'	100%		Massive streaked greenish highly silic. rhy. sequence. Occas. bands & strgs. of py.
770'	799'	29'	100%		Massive streaked green grey silic. rhy. Irreg. qtzose zones.
799'	810'	11'	100%		Rock type as above some massive patches of py. with cpy. & ga. - bluestone ore.
810'	841'	31'	100%	30°	Grey to dark grey silic. tuff. rhy. sequence. Vaguely banded.
841'	858'	17'	100%	30°	Pale grey - whitish highly silic. rhy. sequence
858'	866'	8'	100%		As above, some small bands of chlor. with coarse py.
866'	888'	22'	100%		Grey tuff. & white highly silic. rhy. - some contortion - poss. slumped area. Chlor. green zones with coarse azufron type py.
888'	899'	11'	100%		Grey-white highly silic. rhy. sequence - disrupted appears similar to Carreg-y-doll or White Rock. Blebs, dissems. - py, cpy.

DIAMOND DRILL LOG  
=====HOLE NO. IM-24PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
899'	939'	40'	100%		Dark grey frag. rhy., tuff with large zones of black chlor. material containing buckshot py. Some strgs. & vns. of py., cpy., occas. massive patches.
939'	1006'	67'	100%		Greyish variable tuff & tuff. rhy. Much fine qtz. irreg. Prob. chlor. Sulph. sporadic mainly in chlor. zones, gen. py.
1006'	1028'	22'	100%		Highly silic. cherty frag. & silic. rhy. Some massive white qtz, sporadic patches of py. & cpy.
1028'	1035'	7'	100%		Silic. flow banded. Pale grey to dark grey rhy. Massive cpy in patches to about 30-40% of core
1035'	1046'	11'	100%		Grey silic. tuff or tuff. rhy., chlor. zones containing buckshot py., strgs. sulph. py., cpy.
1046'	1050'	4'	100%		Grey silic. tuff or tuff. rhy. Massive cpy./qtz. in patches making up 25% of core
1050'	1070'	20'	100%		Grey tuff. rhy. sequence with zones of highly silic. grey rhy., some frag. Sulph. sporadic, dissem. patches & blebs.
1070'	1098'	28'	100%		Dark grey - pale grey frag. tuff. rhy. Sporadic blebs, patches, interstit. Sulph. - cpy. and py., some weak sphalerite. Core somewhat broken.
1098'	1120'	22'	100%		Alt. bands of buff-grey cherty rhy. & grey tuff. rhy. Qtzose (White Rock type) with sporadic dissem. & masses of sulph. Py., cpy. & some ga.
1120'	1144'	24'	100%		Grey-white, dark grey silic. rhy. sequence, brecc. poss. frag. Irreg. massive sulph. (cpy, py.) sporadically, occas. interstit.

DIAMOND DRILL LOGHOLE NO. IM-24PROPERTY PARYS MOUNTAIN

From	To	Length	Recovery	Core Angle	Description
1144'	1157'	13'	100%		Dark grey to black shaly tuff or chlor. shale Sulph. blebs & patches throughout. Sheared at end - Fault (?)
1157'	1170'	13'	100%		Pale grey f.g. chert, fract. Some weak interstit. sulph.
1170'	1196'	26'	100%		Rubbly mass of chert & angular chlor. interstit. material. Poss. slump zone. Weak dissem. of sulph.
1196'	1224'	28'	100%		Variable f.g. chert, rubbly chert, chert with green chlor. bands. Sulph. bluestone type (cpy, py, ga, sph.) in strgs. & vns., occas. massive patches.
1224'	1238'	14'	100%		Mainly f.g. grey chert with occas. chlor. streaks & patches. Sulph. weak.
1238'	1257'	19'	100%		Irreg. mass of slumped(?) material consisting of chert frags., chlor. masses & argill. material. Occas. dissem. py. or patches of azufon.
1257'	1268'	11'	100%		Silic. rhy. formation with shaly frags. & bands of black chlor. shale. Sulph. weak.
1268'	1333'	55'	100%		Irreg. rhy. & tuff sequence, multicolored with some signs of slump & disruption. Cherty in part throughout & chlor. Some shaly parts. Sulph. weak.
					END OF HOLE

# SAMPLE REPORT

HOLE NO. IM-24PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1743	425'	436'	11'	11'	0.15	0.01	0.01	1.25		Irreg. contorted mixture of silic. grey-green cherty shale & qtz. brecc. Sulph. irreg. interstitial py. & cpy.
1744	436'	446'	10'	10'	0.13	0.01	0.01	0.20		Rock type as above, perhaps more shaly. Sulph. (py., cpy) weaker, blebs. & dissem.
1745	446'	456'	10'	10'	0.09	0.01	0.01	0.25		Mainly massive green grey shale with bands of qtz. brecc. & qtz. strgs. & vns. of sulph (py)
1746	456'	462'	6'	6'	0.15	0.03	0.03	0.05		Rock type as above. Qtz. brecc. bands & strgs. Sulph. (py., cpy.) in strgs. & dissem. in qtz. portion.
1747	462'	468'	6'	6'	0.24	0.03	0.04	0.05		Mainly qtz. brecc. alt. with bands of green-grey shale. Sulph. dissem. strgs. (py. & cpy)
1748	468'	476'	8'	8'	0.04	0.04	0.04	1.20		Prob. alt. silic. rhy. sequence. Sulph. irreg. in strgs. & bands mainly py.
1749	476'	486'	10'	10'	<0.01	0.02	<0.01	0.20		Pale silic. rhy. sequence. Weak strgs. of sulph. (py.)
1750	486'	497'	11'	11'	<0.01	0.01	0.01	0.25		As above



SAMPLE REPORTHOLE NO. IM-24PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1751	497'	501'	4'	4'	<0.01	<0.01	0.05	0.04		Pale grey highly silic. rhy. Strong to massive fine grained py. makes up 15% core.
1752	501'	510'	9'	9'	<0.01	<0.01	0.01	0.03		Mainly grey & pale grey silic. rhy. Weak patches & strgs. of sulph.
1753	510'	520'	10'	10'	<0.01	0.02	<0.01	0.03		As above
										BREAK IN SAMPLING
1754	866'	900'	14'	14'	<0.01	0.02	0.03	Tr		Grey - grey-white highly silic. tuffaceous rhy. Zones of black chlor. material. White Rock type - blebs py., cpy.
1755	900'	907'	7'	7'	0.47	0.01	0.03	0.02		Grey tuffaceous or frag. rhy., chlor. zones with azufrom py., cpy.
1756	907'	919'	12'	12'	0.19	0.01	0.02	0.02		Grey silic. frag. rhy. with occas. chlor. shaly bands & azufrom py. (weak cpy.)
1757	919'	929'	10'	10'	<del>1.1</del> <del>0.10</del>	0.01	0.03	0.10		Grey silic. frag. rhy. with zones of black chlor. shaly tuff with blebs & dissems. of py. & cpy., occas. massive.

SAMPLE REPORTHOLE NO. IM-24PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)				Description
					% Cu	% Pb	% Zn	Ag	
1758	929'	936'	7'	7'	0.20	0.01	0.15	Tr	Rock type as above, chlor. zones with weaker sulph.
1759	936'	940'	4'	4'	0.14	0.01	0.04	0.04	Rock type as above, sulph. weak.
									BREAK IN SAMPLING, BROKEN ZONE
1760	1000'	1007'	7'	7'	<0.01	0.01	0.01	0.04	Greyish variable tuff or tuffaceous rhy. Sporadic chlor. zone with azufrom py.
1761	1007'	1012'	5'	5'	0.14	0.05	0.02	1.75	Highly silic. cherty frag. rhy. Some Carreg-y-doll type brecc. zones with py. & cpy.
1762	1012'	1022'	10'	10'	0.12	0.02	0.04	0.15	Highly silic. variable grey cherty rhy., much fine qtz. bands & patches of py., occas. cpy.
1763	1022'	1028'	6'	6'	0.18	0.01	0.01	0.10	Grey tuffaceous & pale grey highly silic. rhy. Occas. bands & patches of py. & cpy.
1764	1028'	1034'	6'	6'	3.90	0.04	0.13	6.00	Rock type as above. Sulph. in massive patches, cpy. & py. making up 30% of core

SAMPLE REPORTHOLE NO. IM-24PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1765	1034'	1047'	13'	13'	0.26	0.01	0.03	0.30		Grey silic. tuff or tuffaceous rhy. Chlor. zones containing buckshot py. Strgs. of py., cpy.
1766	1047'	1050'	3'	3'	7.60	0.02	0.07	28.00		Highly silic. grey tuffaceous rhy. with massive cpy. making up 30% of core.
1767	1050'	1070'	20'	20'	0.21	0.01	0.02	0.10		Grey tuffaceous rhy. sequence with grey silic. rhy. Sulph. sporadic dissems. & blebs.
1768	1070'	1081'	11'	11'	0.46	0.02	0.02	4.50		As above. Core somewhat broken
1769	1081'	1088'	7'	7'	0.11	0.01	0.06	0.15		As above
1770	1088'	1097'	9'	9'	0.45	0.01	0.02	0.03		As above. Sulph. (cpy, py) interstitial in vns.
1771	1097'	1102'	5'	5'	0.09	0.02	0.02	4.50		Grey tuffaceous silic. rhy. occas. frag. Sulph. sporadic, mainly py.
1772	1102'	1116'	14'	14'	0.23	0.01	0.02	0.10		Grey pale grey highly silic. rhy. sequence. Chlor. zones, zone of White Rock type qtz. Sulph. (py., cpy., ga.) sporadic

SAMPLE REPORTHOLE NO. IM-24PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1773	1116'	1122'	6'	6'	0.76	0.03	0.01	0.04		Rock type as above. Sulph. (py. or cpy) in patches or masses making up 10% of core.
1774	1122'	1138'	16'	16'	0.09	0.01	0.01	0.04		Grey white silic. rhy. sequence alt. with qtzose chlor. bands brecc. (of White Rock) sulph. (py. cpy) Sporadic.
1775	1138'	1144'	6'	6'	1.70	0.02	0.02	1.60		Qtz. brecc., qtzose rhy. Massive sulph. (cpy., py.) interstitial sulph. 30% of core min.
1776	1144'	1157'	13'	13'	0.24	0.03	0.03	1.00		Dark grey to black shaly tuff or mudstones. Sulph. blebs & patches throughout (py., cpy.)
1777	1157'	1170'	13'	13'	<0.01	<0.02	<0.01	0.75		Pale grey to white fine grained chert, weak interstitial sulph.
1778	1170'	1197'	27'	27'	<0.01	<0.01	<0.01	0.02		Rubely mass of chert & frag. chlor. Slump zone - weak sulph.
1779	1197'	1206'	9'	9'	0.02	0.05	0.16	0.15		Variable grey to white chert with chlor. bands & patches. Sulph. irreg. in strgs. & dissems. Cpy., py., ga., sph.

SAMPLE REPORTHOLE NO. IM-24PROPERTY PARYS MOUNTAIN

Sample No	From	To	Length	Recov'd Length	Assays (Gms/1000 Kilos)					Description
					% Cu	% Pb	% Zn	Ag		
1780	1206'	1216'	10'	10'	0.03	0.03	0.10	0.04		Rock type as above, perhaps more qtzose. Sulph. in strgs., blebs & interstitially. cpy-py-ga-sph.
1781	1216'	1226'	10'	10'	0.02	0.03	0.01	Tr		Variable grey silic. rhy. sequence with chlor. zones. Sulph. sporadic, azufrom type, occas. strgs., mainly py.
1782	1226'	1236'	10'	10'	<0.01	<0.01	<0.01	0.40		Mainly fine grained grey chert with occas. chlor. bands. Sulph. or blebs & strgs. weak.  END OF SAMPLING

TEL: CODE 051 - 638 - 4793/4/5  
TELEX: 62648  
DATE 4th February 1972

18 CHURCH ROAD  
SEACOMBE, WALLASEY  
CHESHIRE L44 6JG

ALFRED H. KNIGHT LTD

Reference: 497958

TO: INTERMINE (CANADA) LTD.

ROCK SAMPLES

SAMPLE NO:	Cu. %	Pb. %	Zn. %	Ag. gms/1000 Kg.		
1724	0.19	0.02	0.03	0.15	#1M-23	
1725	0.27	0.03	0.10	0.04		
1726	0.08	0.04	0.11	0.03		
1727	0.01	0.01	0.02	0.02		
1728	0.72	0.02	0.02	0.40		
1729	0.09	< 0.01	0.05	0.75		
1730	0.54	< 0.01	0.02	4.25		
1731	0.07	< 0.01	0.03	5.50		
1732	0.76	< 0.01	0.02	3.00		
1733	0.07	0.01	0.02	2.85		
1734	0.08	< 0.01	0.01	0.25		
1735	0.08	< 0.01	0.01	0.04		
1736	0.06	< 0.01	0.02	0.20		
1737	0.50	0.01	0.03	0.15		
1738	0.16	0.01	0.02	1.50		
1739	0.39	0.02	0.04	3.85		
1740	0.18	0.01	0.03	2.25		
1741	0.47	0.03	0.06	4.25		
1742	0.09	0.01	0.03	4.75		
1743	0.15	0.01	0.01	1.25	#1M-24	
1744	0.13	0.01	0.01	0.20		
1745	0.09	0.01	0.01	0.25		
1746	0.15	0.03	0.03	0.05		
1747	0.24	0.03	0.04	0.05		
1748	0.04	0.04	0.04	1.20		
1749	< 0.01	0.02	< 0.01	0.20		
1750	< 0.01	0.01	0.01	0.25		
1751	< 0.01	< 0.01	0.05	0.04		
1752	< 0.01	< 0.01	0.01	0.03		
1753	< 0.01	0.02	< 0.01	0.03		
1754	< 0.01	0.02	0.02	Trace		
1755	0.47	0.01	0.03	0.02		
1756	0.19	0.01	0.02	0.02		
1757	1.1	0.01	0.03	0.10		
1758	0.20	0.01	0.15	Trace		
1759	0.14	0.01	0.04	0.04		
1760	< 0.01	0.01	0.01	0.04		
1761	0.14	0.05	0.02	1.75		
1762	0.12	0.02	0.04	0.15		

Yours faithfully,

ALFRED H. KNIGHT LTD.

TEL: CODE 051 - 638 - 4793/4/5

TELEX: 62648

DATE 4th February 1972

18 CHURCH ROAD

SEACOMBE, WALLASEY

CHESHIRE L44 6JG

ALFRED H. KNIGHT LTD

Reference: 497958

Sheet 2.

INTERMINE (CANADA) LTD.

## ROCK SAMPLES

**TO:**

[illegible]

Yours faithfully,

ALFRED H. KNIGHT LTD.