# EXPLORATION LICENCE 7366

**THIRD AND FINAL REPORT**

**1 MARCH 1991 - 28 FEBRUARY 1994**



*LICENSEE:*

***GIANTS REEF EXPLORATION PTY LTD***
**A.C.N. 009 200 346**

(Formerly Giants Reef Mining Pty Ltd)



*PINE CREEK* *1:250,000*
*SD52-8*
*BATCHELOR* *1:100,000*
*5171*
*14/2-IV* *1:50,000*

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*DARWIN, N.T.*
*MAY, 1994*

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## SUMMARY

Exploration Licence 7366, located east of Batchelor in the Northern Territory, was held by Giants Reef Exploration Pty Ltd (Giants Reef) for a three year period from 1st March 1991 until its expiry on 28th February 1994.

Target commodities were gold and base metals.

The Licence area covered a sequence of Early Proterozoic sedimentary formations, the oldest being clastic units, dolomites and pyritic siltstones of the Mount Partridge Group in the western and northern two-thirds of the area, overlain in the south by shales, cherts and siltstones, including ferruginous units, of the South Alligator Group.

Previous explorers have concentrated more on base metals and uranium than for gold, although Pancontinental Mining Limited found and investigated the Sundance gold occurrence in 1978-79. A number of gold and base metal anomalies and prospects are now known in the area from work by Giants Reef and others. These appear to follow two distinct mineralised trends.

The better defined of these runs through the Sundance gold mine, held by Giants Reef within two leases enclosed by EL 7366. The mine is situated on the contact of the Coomalie Dolomite and White Formation, which has been the focus of much of the gold exploration within EL 7366, and for base metals and uranium elsewhere.

During 1993, activity at the Sundance mine included percussion drilling, diamond drilling, an extensive costeaning programme, the mining of 9,300 tonnes of ore with an average grade of 11.8 g/t Au, and related metallurgical testwork.

Within EL 7366, the White Bomb prospect was discovered by Giants Reef and was tested by costeaning, a gravity survey, and by six reverse circulation percussion and diamond drill holes. The most significant result was in RC hole WBP1, which intersected 6 metres averaging 11.68% Zn, 1.98% Pb, and 48.5 ppm Ag. This was within a 30 metre mineralised interval in an altered dolerite sill which averaged 3.4% Zn and 0.67% Pb. Other drill holes intersected a stratigraphic thickness of over a hundred metres adjacent to the mineralised dolerite showing strongly anomalous lead and zinc levels.

These very encouraging results from the White Bomb drilling suggest good possibilities for discovering significant deposits of discordant (remobilised) and stratiform base metals in this locality. Other lead-zinc prospects near the White Bomb prospect or along the same trend include the White Bomb East prospect, the CRAE prospect and the Occidental prospect. Surface sampling has produced positive results in all cases, and more detailed work is warranted.

Discussions for a possible farm-in agreement on the White Bomb and nearby base metals prospects are being held with the owners of the Woodcutters lead-zinc-silver mine.

At the Hill 133 gold prospect, rock chip samples assaying up to 1.9 g/t Au were found during reconnaissance. Two costeans were dug across a dolerite-siltstone contact and located minor gold values. Rock and gully sampling suggests that low order gold mineralisation worthy of further exploration may be present over several hectares.

The Sundance East gold prospect, 6 kilometres east-northeast from the Sundance mine, is a group of gossanous quartz breccia outcrops, with strong similarities to the Sundance style of occurrence. It is situated at the same geological contact, and rock samples have contained gold values up to 6.7 g/t Au and anomalous tin. The prospect has had very limited work done on it to date, but is regarded as a prime drill target.

Minor prospects include a magnetic anomaly in the eastern side of the Licence, and the Woollybutt Reefs gold prospect where low order gold occurs in ferruginous and arsenic-stained quartz outcrops.

Exploration prior to and during the three year term of EL 7366 has located the above base metal and gold prospects. All deserve further investigation. To this end, Giants Reef has placed applications for Mineral Claims and for an Exploration Retention Licence over most of the former Licence area.

Expenditure on EL 7366 for the third and final year was $160,100.

## 1. INTRODUCTION

This report records and summarises the exploration work for gold and base metals carried out on Exploration Licence 7366 during its three year term from the date of granting on 1st March 1991 to its expiry on 28th February 1994.

EL 7366 covered an area of approximately 27 square kilometres, located east of the town of Batchelor and about 70 kilometres south-southeast of Darwin in the Northern Territory.

The Licence area surrounded the Sundance gold mine, held by Giants Reef. The prime object of the exploration work carried out on EL 7366 and its predecessor tenements has been to locate more gold deposits of the Sundance style, although since the discovery of the White Bomb lead-zinc-silver prospect, base metals have also been an important target.

The first two annual reports on EL 7366 treated Sundance and the surrounding EL as one project. However, in 1993 a great deal of work was done at the Sundance mine, including a mining operation in which 9,300 tonnes of ore were recovered. Because of this, it was decided to report the Sundance activities separately, and this is now in preparation. The present report is confined to covering exploration on EL 7366, although a short summary of the work at Sundance is included.

To date, the most advanced of the prospects within former EL 7366 is the White Bomb lead-zinc-silver prospect, where diamond and percussion drilling has found high grade mineralisation. The White Bomb prospect is described in full in this report, together with accounts of the exploration work carried out at seven other significant gold and base metals prospects within the Licence area.

## 2. LOCATION AND ACCESS

The location of EL 7366, together with the various enclosed leases and adjoining tenements, is shown on Figure 1, which is taken from NTDME tenement series 1:50 000 scale map Batchelor 14/2-IV.

The Licence area is 70 kilometres south-southeast of Darwin, in the Northern Territory. The town of Batchelor is approximately 1.5 kilometres west along the Batchelor Road from the northwest corner of the EL.

Access into the Licence area is along the various tracks and fencelines from Batchelor Road on the north side, the Stuart Highway on the east, and the unsealed Crater Lake Road (Quarry Road) which passes through the EL from the north to the east. Vehicular access within the Licence is difficult because of the hilly nature of the country, especially in the eastern and southern portions, including the White Bomb prospect area, and because of the black soil and dense vegetation along Coomalie Creek and its tributaries.

From the commencement of the wet season rains, access becomes difficult to impossible for up to five months (December to April), and this factor has retarded exploration to a considerable degree.

## 3. TENURE

Exploration Licence 7366 was granted to Giants Reef Mining Pty Ltd on 1st March, 1991, for a term of three years, in substitution for ELs 4845, 4868 and 6725. It expired on 28th February 1994. The EL consisted of 9 blocks covering approximately 27 square kilometres with boundaries as shown in Figures 1 and 2.

Giants Reef Mining Pty Ltd underwent a change of name to Giants Reef Exploration Pty Ltd (GRE) on 17th December 1992. GRE has since become a wholly-owned subsidiary of Giants Reef Mining N.L.

EL 7366 enclosed the two Mineral Leases, N542 and N543, in which the Sundance gold mine is situated. It also enclosed four other leases, N512 and N515, in the Glen Luckie area. All of these leases are held by Giants Reef.

The entire licence area covers private freehold property which, apart from some small portions in the northeastern part of the licence, is owned by Mr P Purich, a director of Giants Reef Mining N.L.

On 2nd December 1993, 12 Mineral Claims (N4672 to N4683) were applied for over the western end of EL 7366, surrounding the Sundance mine. Other Mineral Claims were applied for over the northern area of the Licence (N4733 to N4765) on 21st February 1994, with applications for two more claims (N4783 and N4784) being lodged on 21st March 1994. An Exploration Retention Licence, No. 134, was applied for on 28th February 1994, covering the White Bomb prospect and surrounding base metal anomalies.

## 4. GEOLOGY

Exploration Licence 7366 covered part of a sequence of Early Proterozoic sediments and igneous rocks of the Pine Creek Inlier. Figure 3 shows the regional setting of the Licence. The sequence dips to the south and southeast at gentle to moderate angles, away from the Archaean Rum Jungle crystalline complex. The margin of the complex is about two kilometres northwest of the Licence area.

The oldest formation within the sequence is the Crater Formation, which is overlain in turn by the Coomalie Dolomite, Whites Formation and the Wildman Siltstone. The latter includes a prominent ridge-forming member, the Acacia Gap Quartzite. These formations make up the Mount Partridge Group.

In the southern two blocks of the EL, the Mount Partridge Group is succeeded above a subtle unconformity by the South Alligator Group, starting with the Koolpin Formation, followed by the Gerowie Tuff, and the Mount Bonnie Formation.

The 1984 Bureau of Mineral Resources 1:100 000 scale map entitled "Geology of the Rum Jungle Uranium Field" describes relationships and lithologies of the above units in the former Licence area. The map is rather generalised in places: for instance, it does not show the full extent of the Zamu Dolerite sills which intrude into large areas of the Wildman Siltstone and adjacent formations.

There appear to be two separate mineralised trends running through the Licence area, converging to the north of EL 7366.

One trend follows the contact between the Coomalie Dolomite and Whites Formation. This contact provides the settings for the lead-zinc-silver deposit at Woodcutters mine, the Sundance East prospect, the Sundance gold mine, and the uranium base metals mines in the Rum Jungle field.

The other trend lies further south and is less well defined, but can be drawn so as to join a number of the prospects referred to later in this report, including the Geopeko lease N386, the low-order gold mineralisation at Hill 133, the CRAE stream sediment lead-zinc anomalies, the White Bomb and White Bomb East prospects, the Occidental lead-zinc anomaly, other base metals anomalies found by Occidental south of EL 7366, and the Waterhouse No. 1 copper-uranium prospect.

## 5. PREVIOUS EXPLORATION

Although the western end of the EL 7366 area is less than 10 kilometres from the Rum Jungle uranium and base metal deposits, the Licence area has not been explored as intensively as the area around those mines.

In the early to mid-1970's, CRA Exploration Pty Ltd searched part of the area for uranium and base metals, under "Authority to Prospect" 2483 and EL 610. This included fairly detailed stream sediment geochemistry which produced lead and zinc anomalies in the area where Giants Reef's White Bomb prospect was later discovered. CRAE resampled the anomalies in more detail when they were first noted, but did not do any further work.

Geopeko explored the area around Woodcutters mine in the late 1960s and early 1970s, and a 15-hectare lease, N386, is still retained as a "window" in the northeast part of EL 7366. The reason for pegging and retaining this lease is not known to Giants Reef.

During 1978 and 1979 Occidental Minerals Corporation of Australia held the southern part of what became EL 7366, plus extensive areas further south, as EL 1755 and EL 2201. Detailed soil geochemistry for uranium and base metals located several anomalies, one of

which lies within the EL 7366 boundaries. This is a lead-zinc anomaly referred to by Giants Reef as the "Occidental prospect".

Also in the late 1970s, Pancontinental Mining Limited explored for uranium under ELs 1576 and 1577. In the course of this work, the Sundance gold-bearing outcrops were discovered. Pancontinental decided, after costeaning and limited drilling, that the Sundance mineralisation was too discontinuous to warrant more exploration. Mineral Leases N542 and N543 were placed over the occurrence, which was eventually acquired by the founders of Giants Reef Mining N.L.

In 1986, under tribute and joint venture agreements with the lease and EL holders, open cut mining was carried out at Sundance by Harlock Pty Ltd, (trustees for the operators of the Mount Bonnie gold mine) and extensive exploration carried out over the adjacent ELs. This consisted mostly of costeaning, geological mapping and soil sampling in an effort to find more occurrences of the Sundance style. These ELs (4845 and 4868) were later replaced by EL 7366. Some gold anomalies were located but no ore was found. The agreement expired in September 1988. After that, several companies carried out investigations into the area around Sundance in the course of farm-in negotiations with Giants Reef, but no agreements were struck.

Other companies which previously explored segments of the EL 7366 area include Mobil Energy Minerals Australia Inc., who searched for uranium in the southern part in 1982-83, and BHP Minerals Limited (then Dampier Mining Company) who held EL 1349 on the northern side of EL 7366 from 1978 to 1983. BHP's work was largely concerned with finding magnesite deposits, although their shallow drilling turned up some sporadic copper and nickel anomalies which warrant further exploration.

## 6. EXPLORATION BY GIANTS REEF EXPLORATION PTY LTD

### 6.1 SUNDANCE GOLD MINE: MINERAL LEASES N542 AND N543

Annual reports for the first and second years of tenure of EL 7366 have included full descriptions of the work carried out on the Sundance gold mine leases N542 and N543. These leases were surrounded by EL 7366, and the exploration work over all three tenements, which has largely been concerned with finding more occurrences of Sundance-style gold ore, has been regarded as a single project.

However during 1993, a large amount of work was carried out at Sundance, including a mining operation. Because of the nature and extent of the Sundance operations, it has been decided to record these in a separate report which is currently in preparation.

In summary, the work done on the Sundance leases during 1993 consisted of:

- re-establishment of the mine grid
- reverse circulation percussion drilling (4 holes totalling 253 metres)

- costeaning (17 costeans totalling 2150 metres)
- diamond drilling (4 HQ holes totalling 98 metres)
- petrological study of ore material
- open cut mining of 9300 tones of ore (head grade 11.8 g/t Au)
- metallurgical testwork on ore samples

The ore mined late in 1993 was trucked to Dominion Mining Limited's Cosmo Howley mine in March 1994 and toll treated.

## 6.2 WHITE BOMB BASE METALS PROSPECT

### 6.2.1 Discovery

The White Bomb gossan was found in 1989 during reconnaissance work by Mr Phil Purich and Mr Nick Byrne, both now directors of Giants Reef Mining N.L. The prospect was named after a white Toyota truck of Mr Byrne's known as "The White Bomb".

Chip samples were taken which assayed up to 10.5% lead and 1.1% zinc from the gossan which is situated in siltstones and fine sandstones of the Wildman Siltstone, and appeared to have a general east-west strike.

### 6.2.2 Costeaning

Three costeans were dug across the strike near the lead-zinc gossan, during the tenure of EL 4845. The steepness of the slope limited the extent of these costeans but each of them cut into mineralised bedrock, although without revealing other than short lengths of gossanous material.

The costeans were not systematically sampled until 1993, when they were channel-sampled in 2 metre lengths. This work revealed that extensive stratigraphic thicknesses of lead and zinc anomalism were present, in the hundreds to several thousands of parts per million, although at the time the anomalies were thought to be due to down-slope diffusion of more concentrated base metal values from the gossan.

The locations of the three White Bomb costeans and plots of their averaged lead and zinc values are shown on Drawing No. 1. The individual assays are in Appendix 1.

### 6.2.3 Gravity survey

During the second year of tenure, a detailed surveyed and levelled grid was established over the White Bomb and White Bomb East areas. The primary aim was the detection of gravity anomalies which could be caused by large masses of base metals mineralisation.

The gridded area is bounded by AMG co-ordinates 8554500N to 8555500N and 726350E to 727700E. The latter easting is approximately coincident with the eastern boundary of EL 7366. The grid lines were established at 50 metre intervals, with stations marked at 25 metre spacings by short white-topped wooden dumpy pegs. The stations were all theodolite levelled to an accuracy of ±2 cm. Their individual co-ordinates and levels were submitted in the previous annual report.

The gravity readings were taken in 1993. A contoured summary of the survey is given in Figure 5, on which the location of drillhole WBP1, which intersected substantial lead-zinc mineralisation, is also shown.

The gravity survey shows that the White Bomb mineralisation is not, as was thought likely, located on a gravity "high". This survey should be extended to give a better idea of the relationship between gravity and mineralisation in the area.

6.2.4 White Bomb Soil geochemistry orientation exercise

A soil sampling exercise was carried out at the White Bomb prospect in 1993. The object of the test was to ascertain which soil particle size fraction best displayed the lead-zinc mineralisation, so that this knowledge could then be applied elsewhere in the area.

Eight soil samples were taken at 25 metre intervals along gravity grid line 6500E. This traverse ran between two of the costeans and further north over the ridge at White Bomb to where the dolerite sill intersected in the drilling has a subdued outcrop expression. The location is shown on Drawing No. 1.

Four size fractions were sieved out at the laboratory and assayed for copper, lead, zinc and arsenic. The results showed fairly clearly that the -40 to +80 mesh size fraction gave the highest lead and zinc readings. This size fraction will be used in any future soil sampling for base metals in the vicinity. Later it was found that Aztec Mining also has preferred to use the -40 fraction for soil sampling in the region.

The results of this test work are tabulated in Figure 6, and the assay results are given in Appendix 5.

6.2.5 White Bomb prospect percussion and diamond drilling

Drilling of the White Bomb area was carried out in July and August 1993. The drilling was aimed at testing the ground below the prominent gossan.

A Warman 1000 convertible rig was engaged for this work. The drillers and the rig performed creditably in achieving lengths of 144 metres in two of the percussion holes, given the high water flows present together with occasional patches of bad ground. Generally, drilling conditions were good, especially for coring.

The first four holes were reverse circulation percussion holes, using a through-the-face type hammer. The fifth and sixth holes were NQ2 diamond core holes, with RC precollars of 102m and 60m respectively. There were no significant core losses in either hole.

Three cross-sections, and a map showing the surface projections of the six holes, are included with the report (Drawings 2, 3 and 4).

The first hole, WBP1, was designed to drill straight under the White Bomb gossan. The steepness of the hillside meant that the drill pad was positioned well downhill from the gossan, but this was not seen as a disadvantage, as the gossan material was interpreted to be dipping south towards the drill collar (ie., conformable with the bedding angles of around 50° to the south as seen in the adjacent costean), or steeper, perhaps vertical, but not dipping away from the collar.

In the event, the main mineralised interval in this hole turned out to be more or less vertically under the gossan. The vertical distance is about 110 metres, but it is not certain whether in fact the gossan and the drill intersection are connected. It was not possible, without constructing another drill pad higher up the hill, to test this vertical interval.

The mineralisation intersected occurred in a chlorite-carbonate altered dolerite sill, which, over its 30 metre thickness, averaged 3.4% Zn and 0.67% Pb, including 6 metres from 115 metres averaging 11.68% Zn, 1.98% Pb and 48.5 ppm Ag.

Hole WBP2 was aimed at testing the minor mineralised section seen in the middle one of the three costeans, and also to extend through the dolerite sill to establish whether the dolerite was mineralised west along strike from the intersection in WBP1. Hole WBP2 succeeded in intersecting a diffuse zone of anomalous siltstone which correlated down dip with the mineralisation sampled in the costean, but had to be abandoned before it had drilled all the way through the dolerite. However, it did penetrate about three-quarters of the dolerite thickness, and it was apparent that there was not the same intensity of mineralisation here compared with that in WBP1.

Hole WBP3 was intended to drill vertically downwards to obtain a fresh and perhaps higher grade intercept through the oxidised mineralisation encountered in WBP2 and in the costean above it. There was little likelihood of the hole reaching the dolerite at this angle, so it was stopped at 96 metres, after intersecting 22 metres averaging 1780 ppm Pb from 6 metre depth, and 40 metres averaging 3960 ppm Pb and 9650 ppm Zn, from 56 metre depth. The hole was still in what appeared to be very weak mineralisation when terminated.

WBP4 was angled at 45° east from the azimuth of hole WBP1, to try the dolerite sill in a different spot and also to test the overlying sediments. It passed through the

dolerite body, ending at 144 metres without finding the same style or intensity of mineralisation seen in the first hole.

WBD5 was a test for further mineralisation underneath WBP1. To reach the required depth, at about 30 metres below WBP1, a diamond hole had to be drilled. The hold was RC-percussion drilled to 102 metres, then cored to 212.5 metres. The dolerite and some of the nearby sediments were mineralised but not to the same degree as the first hole.

Hole WBD6 was designed to test the dolerite again, and to continue through it to cut across a conjectured NNW-oriented structural feature running through the main gossan outcrop, as interpreted from the elongation of the gossan in this direction. In its 60 metre precollar the hole intersected the near-surface zone of predominantly low-grade lead mineralisation found in WBP2 and WBP3, but the cored section of this hole was not substantially mineralised.

Lead, zinc and silver assays are shown on the drill logs in Appendix 2, and the full assay results, including a multi-element scan of high grade material from WBP1, are included in Appendix 3. Drilling statistics for the six holes are tabulated in Appendix 4.

The drilling results are most encouraging, both for the possibilities they present for finding discordant, structurally emplaced orebodies and for large stratiform or stratabound base metal deposits. There is evidence of both styles in the region, at the Woodcutters mine and Area 44 locality for the former, and in the Embayment area at Rum Jungle for the latter.

The White Bomb drill holes and sumps were filled in and the pads smoothed over and tidied up with a front end loader, in late 1993.

6.2.6 Joint venture negotiations

The drilling at White Bomb has established the presence of substantial mineralisation, which needs further investigation. However, as it is not Giants Reef's policy to direct a large part of its resources into exploring for base metals, it was decided to find a joint venture partner.

The company had held a series of talks with Aztec Mining Limited, owners of the Woodcutters lead-zinc-silver mine situated 10 kilometres to the north, with a view of setting up an agreement whereby Aztec would fund and manage subsequent exploration at and around the prospect. Unfortunately, the takeover by the Normandy Poseidon group of Aztec Mining caused delays, and the outcome of the negotiations has yet to be resolved.

## 6.3 WHITE BOMB EAST

This area is centred about 1 kilometre east-southeast of the main White Bomb prospect.

A small gossanous outcrop was found here at about the same time as the White Bomb gossan. A costean was subsequently dug through the outcrop. CRAE's stream sediment samples taken downstream from the prospect in 1971 gave assays of 490 ppm Zn and 130 ppm Pb. Various rock chip samples have been taken at different times, and these have assayed in the high hundreds of ppm for lead and for zinc. Rock chip samples collected by Giants Reef in 1993 showed anomalous zinc levels up to 2860 ppm, and lead levels up to 400 ppm (Figure 7).

No systematic sampling or mapping has been done of the costean or the surrounding area, but the occurrence seems similar to the White Bomb prospect in style, being hosted in the Wildman Siltstone and with a dolerite mass immediately north of the surface mineralisation. Possibly this is the same dolerite sill that was drilled at White Bomb.

At this stage it is not clear whether the White Bomb East anomaly is the strike extension and stratigraphic equivalent of the main White Bomb prospect, or a separate occurrence.

## 6.4 CRAE LEAD-ZINC PROSPECT

Stream sediment geochemistry by CRA Exploration Pty Ltd in 1971 under "Authority to Prospect" No. 2483 revealed a number of base metal anomalies in what later became EL 7366, including one located about 1 kilometre northeast from the White Bomb prospect. Zinc levels of 360 and 260 ppm occur in adjacent gullies in the Wildman Siltstone. Reconnaissance investigations of the area by Giants Reef in May-June 1993 produced some anomalous rock chip sample assays (up to 2470 ppm Zn and 1190 ppm Pb) which are shown in Figure 7. However, no focus to this anomalism was found.

At this area, the two streams with anomalous values drain from a ridge of the Acacia Gap Quartzite, although for most of their lengths they run through typical Wildman Siltstone. There is also a dolerite body in the southwest of the two drainages.

Some fine-grained siliceous siltstone and quartzite rubble pieces display thin brown surface crusts of partly boxwork-textured limonite. These probably indicate former pyrite veins or joint-fillings, and perhaps also carried base metal sulphides.

As with White Bomb East, the relationship between this anomalous area and the main White Bomb prospect has yet to be clarified. Possibly the stream sediment geochemistry reflects mineralised Wildman Siltstone strata over tens of metres of stratigraphic thickness as drilled at White Bomb. The nearby dolerite may also carry low levels of lead-zinc, or have a mineralised contact with the surrounding sediments.

## 6.5 OCCIDENTAL LEAD-ZINC PROSPECT

This lead-zinc anomaly was found by Occidental Minerals Corporation in the late 1970s.

Exploration at that time included a widespread soil sampling and geological mapping programme. Soil lines were east-west, with samples at 25 metre intervals along lines at 200 metre spacings. The anomaly is strongest at the northern limit of Occidental's work, at latitude 13° 04' south, where consecutive samples peak at 910 and 920 ppm Zn and 750 and 690 ppm Pb.

This coincides with a small but prominent dolerite outcrop on a southeasterly slope, referred to as an amphibolite in Occidental's reports. The host rock to the dolerite is Wildman Siltstone. Thus it has a geological setting very like the White Bomb prospect and appears to be at about the same stratigraphic horizon, judging by the 1:100 000 geology map of the area. The map does not show any dolerite (or amphibolite) in the vicinity, but from ground reconnaissance it appears that much of the bedrock here, perhaps as high as 50%, is in fact dolerite or its altered products.

It also appears likely that the soil anomaly extends further north, but as Occidental did not hold any ground north of latitude 13° 04', the anomaly has never been closed off.

Figure 8 shows rock sample assay locations and results obtained during visits to the prospect in 1993. Chip sample 581584, taken from the dolerite outcrop at the peak of the geochemical anomaly, assayed 2470 ppm Zn and 540 ppm Pb, but the outcrop was not examined in any detail at the time.

Duplicate pieces of another rock sample, 581593 which assayed 760 ppm Pb and 3880 ppm Zn, were sent to a petrologist for thin section study (see Appendix 7). The rock is very weathered and no signs of base metal minerals were seen, implying that the lead and zinc content of the rock must be disguised in the iron oxides. Originally it may have been a vitric tuff.

A stream sediment sample taken 300 metres downstream from the centre of the anomaly reported 115 ppm Zn and 250 ppm Pb. This sample was of grey powdery soil material in the dry gully bottom, and was not sieved. Downstream about 800 metres, CRAE's 1971 -80 mesh stream sample assayed 45 ppm Zn and 93 ppm Pb.

## 6.6 HILL 133 GOLD PROSPECT

### 6.6.1 Introduction

During reconnaissance on foot over the eastern area of EL 7366, a number of mineralised-looking quartz outcrops were discovered and sampled. The location of this area is shown on Figures 4 and 9.

It was seen that there was a thick surface scattering of quartz float, some of it mineralised, over several hectares. The mineralisation was in the form of sporadic limonitic boxworks and holes in the white quartz, and minor scorodite. Also, minor pyrite, silicic alteration and arsenic staining were found and sampled on the top of the nearby hill marked with spot height 133 metres on the local 1:50 000 scale maps.

At the area of thick quartz scatter there is little outcrop apart from some prominent quartz "blows", but the presence of weathered dolerite among the float rocks suggested that the main outcropping quartz reefs could be emplaced along a northwest-trending contact between a dolerite sill or dyke and the Whites Formation siltstones which crop out on the flanks of Hill 133.

The results of the work to date indicate that gold mineralisation is widespread, although so far no localised high grades have been recorded. Further exploration is planned on this prospect.

6.6.2 Soil and stream sediment sampling

At first it was decided not to carry out large scale grid soil sampling, because of the likelihood of a widely dispersed surface anomaly from the scattered mineralised float rock that could be expected on the sloping ground. Instead, two long costeans were planned across the area of interest, to find out whether the dolerite-siltstone contact idea was correct, and to ascertain the nature and frequency of the quartz veining in the bedrock. However, before costeaning commenced, a single soil sample orientation line was spot-sampled at 20 metre intervals along the route of the first costean. From this limited exercise of 18 samples, it appeared that of the three sieve size fractions tried (+80 mesh, -80 to +200 mesh, and -200 mesh), it was immaterial which particle size range was chosen for gold, but that for base metals and arsenic it would be better to use the +80 mesh fraction in any future soil geochemistry.

Four stream sediment samples (646071 to 646074) were taken from small dry gullies in the locality. Three particle size fractions were analysed: -200 mesh, -80 to +200 mesh, and +80 mesh. The highest reading was 83 ppb Au from a shallow gully north of the northern costean. The others were all less than 7 ppb Au, although all of these are regarded as anomalous.

6.6.3 Costeaning

Two costeans were 350 metres and 210 metres long, 160 metres apart and both aligned at around 300° magnetic. Continuous channel sampling of the north wall of each trench was carried out, and assayed in 3-metre lengths. The results were lower than anticipated in that the highest result was a sample assaying 0.23 g/t Au, adjacent to another sample assaying 0.15 g/t Au. These were in and around quartz veins well into the dolerite body, and not at its margin. The only other assays of 0.1 g/t Au or above were 0.17, 0.10 and 0.10 g/t Au. All these were in the first

(northern) costean. The southern costean did not show any anomalous gold assays.

The layout of the costeans, the channel samples and the line of orientation soil samples is shown on Drawing No. 5. The full assay data for the Hill 133 area, including the assorted rock samples taken at various times, are given in Appendix 6.

## 6.7 SUNDANCE EAST GOLD PROSPECT

This prospect, located about 6 kilometres east-northeast of the Sundance mine, as shown in Figure 4, consists of a group of gossanous and quartz-breccia outcrops, showing remnant oxidised sulphide textures with anomalous gold levels.

No other rock types occur as outcrops in the vicinity, because of the extensive soil and creek alluvium cover. Geologically it appears to sit on or very close to the Coomalie Dolomite-White Formation contact, similar to the Sundance gold mine. Only limited work has been done here to date.

Samples taken during the tenure of EL 4868 assayed up to 6.7 g/t Au and also showed strongly anomalous tin values which are characteristic of the Sundance ore. More recently, three rock chip samples taken in July 1993 assayed up to 0.16 g/t Au and 1680 ppm As.

Sundance East is regarded as being particularly prospective and a prime drill target because of its geological position and the presence of anomalous gold and tin. Of all the EL 7366 prospects, Sundance East at present offers the best chances for discovering a gold orebody.

## 6.8 MINOR PROSPECTS

### 6.8.1 Magnetic anomaly

A prominent dipolar magnetic anomaly, shown on the 1967 BMR Rum Jungle Detailed Airborne Survey total magnetic intensity contours map (BMR Record 1970/111), is centred 4.8 kilometres east of the Sundance mine, 800 metres south of the Crater Lake Road, as shown in Figures 3 and 10.

The anomaly lies within the Wildman Siltstone, stratigraphically a little below the southeasterly-dipping Acacia Gap Quartzite Member.

The most likely cause of this anomaly is a dolerite body such as are commonly found in the area, especially further south. However, its relative isolation from known dolerite masses leaves open the possibility that it may have a different cause, and justify further investigation on the ground. So far, examination of air

photos and a very brief ground examination have not indicated the presence of dolerite.

6.8.2 Woollybutt Reefs

This group of sparsely mineralised quartz reefs and veins is located approximately 1 kilometre southeast of the Sundance mine (Figure 4). The outcrops were found during reconnaissance of the area, when several samples were collected. Although the gold assays were not high, the maximum being only 0.1 g/t Au, the presence of arsenic staining, minor pyrite and iron enrichment (up to 14.1% Fe) suggest that the area requires further investigation.

The reefs extend intermittently over 300 metres and are hosted in grey folded sandstone which could belong either to Whites Formation or the Wildman Siltstone. The bedding in both the sandstone and the reefs themselves have a predominantly northwest strike.

## 7. CONCLUSIONS

Exploration at EL 7366 over the past three years has led to the following major conclusions:

- The Sundance mine and the Sundance East prospect both lie on a mineralised trend following the Coomalie Dolomite-Whites Formation contact. Past work along this trend has not been exhaustive, and this trend remains highly prospective.

- The Sundance East prospect presents a highest priority target, ready for immediate drilling once tenure is secure.

- White Bomb appears to lie on a different mineralised trend, which includes the nearby prospects of White Bomb East, the CRAE lead-zinc prospect, and possibly the Occidental lead-zinc prospect.

- The White Bomb prospect, although the most advanced of the EL 7366 prospects, is still at a relatively early stage of investigation. Geological mapping is needed to obtain an understanding of controlling structures and lithogies on the mineralisation.

- Further drilling is needed at White Bomb to test for shallower and hopefully large tonnages of base metal sulphides in the vertical zone between the gossan and the WBP1 intersection.

- Completion of the White Bomb gravity survey, and a widespread soil sampling programme are among the earliest priorities.

- The possibility of a large stratiform base metal deposit in the White Bomb area is suggested by the great thicknesses of significantly mineralised graphitic and pyritic sediments drilled at this prospect.

- The other EL 7366 prospects present very good opportunities for the discovery of gold or base metals. In all cases they warrant more basic exploration for proper evaluations.

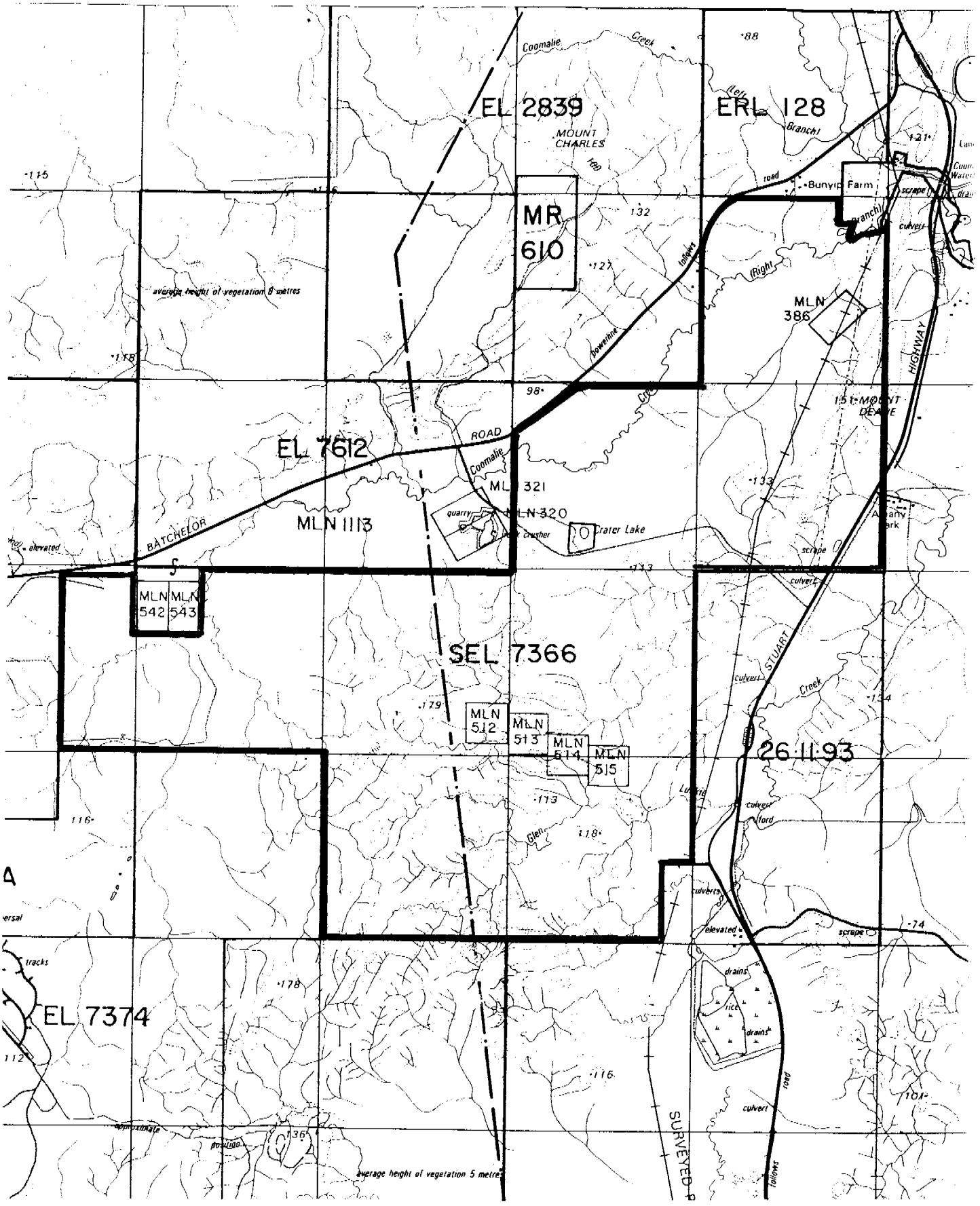
## 8. EXPENDITURE

Expenditure during the third and final year was as follows:

| | | |
|---|---|---|
| • Geological reconnaissance and research | | $4,800 |
| • Geophysical interpretation | | 2,000 |
| • Gravity survey | | 6,500 |
| • Assays | | 16,800 |
| • Drilling | | 100,700 |
| • Costeaning | | 21,700 |
| • Administration/Overheads | | 7,600 |
| | TOTAL | $160,100 |

P G SIMPSON
*EXPLORATION MANAGER*

GIANTS REEF EXPLORATION PTY LTD



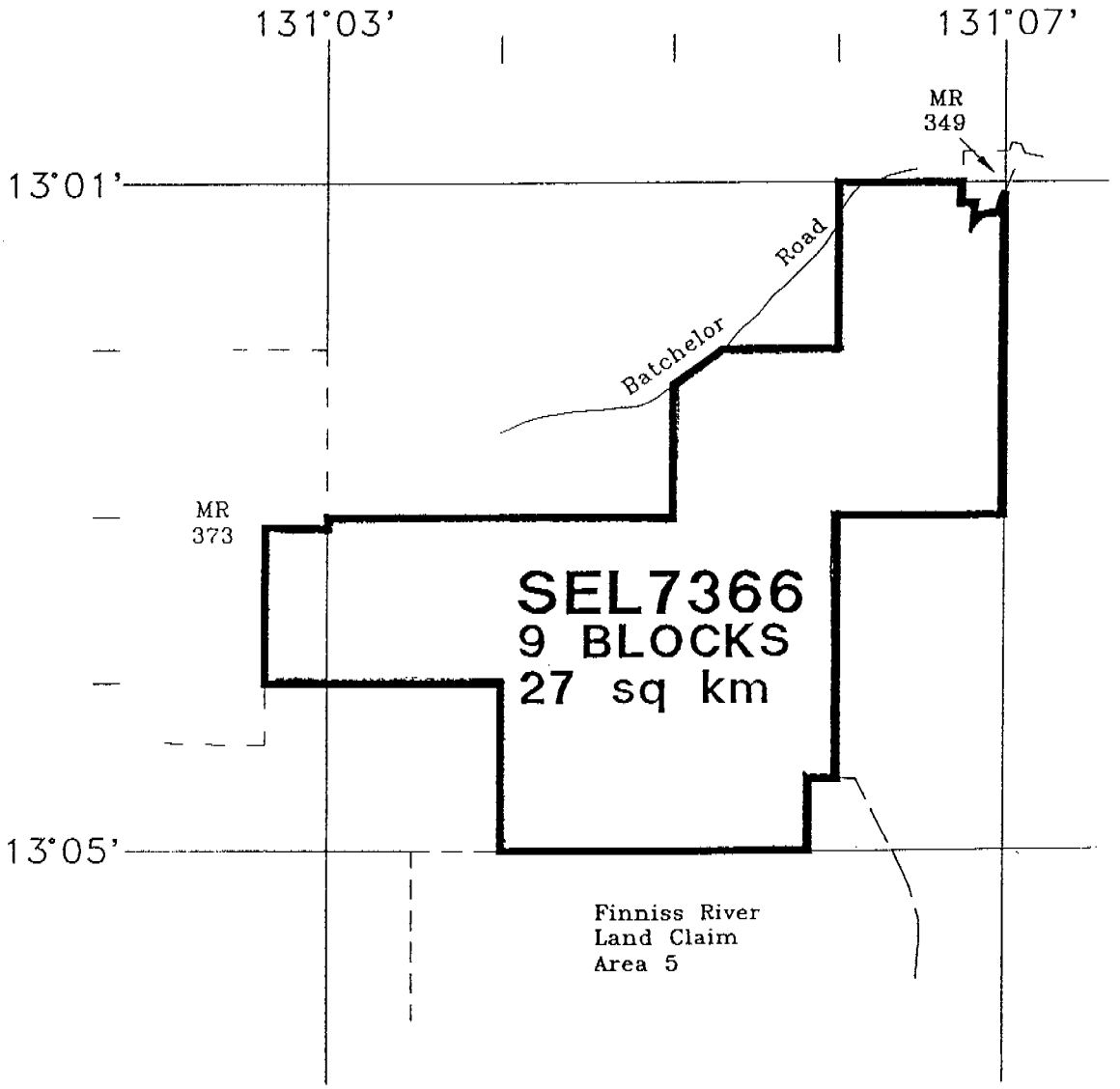

TENEMENT AND LOCATION MAP

0 1 2 3 4 5km

Scale: 1:50 000 From NTDME tenement map series
Batchelor 14/2-IV Dec. 1993

FIGURE 1

## GIANTS REEF EXPLORATION PTY LTD

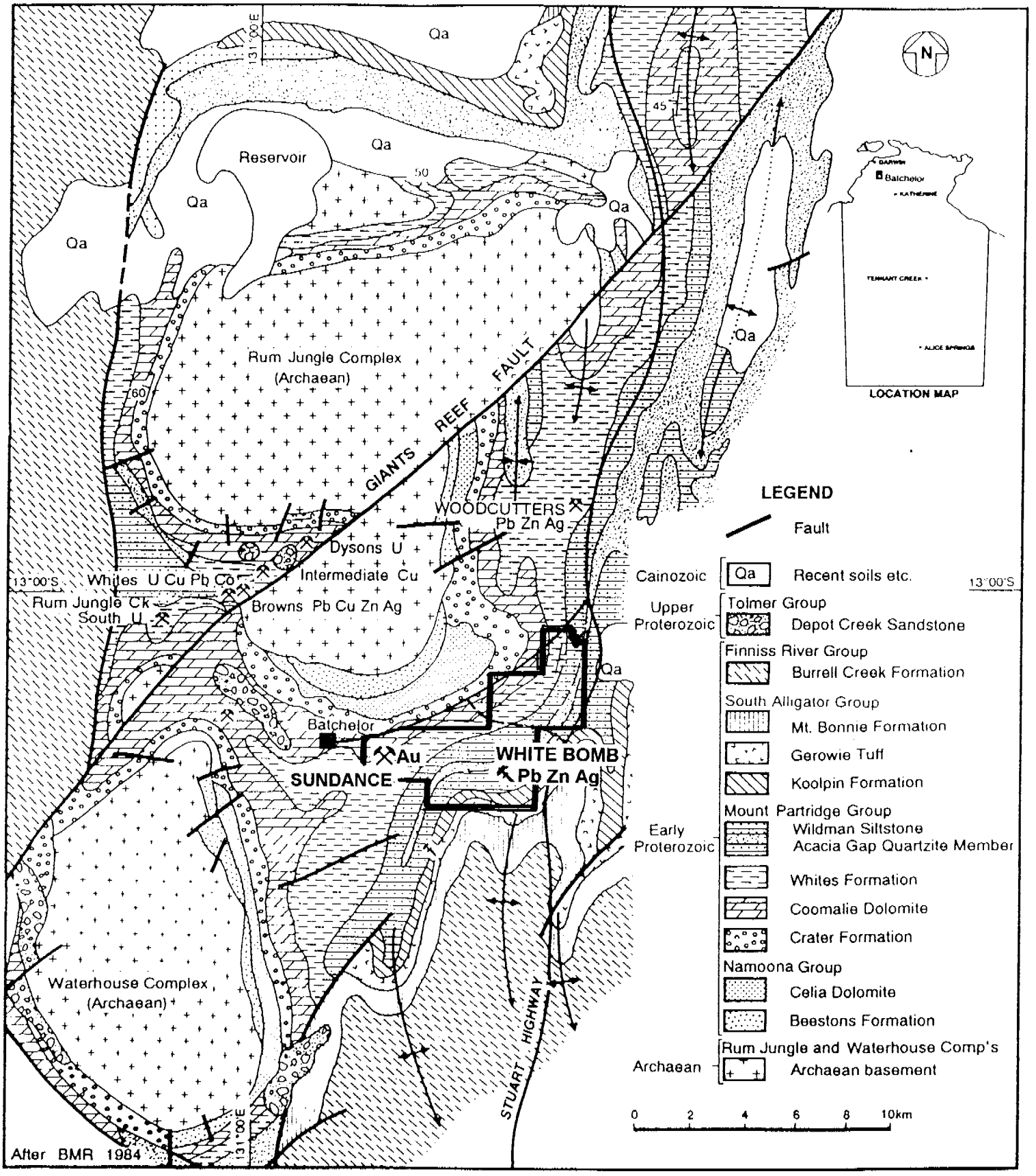



**BOUNDARIES OF EL7366**

(From NTDME Licence document, 1st March 1991)

**FIGURE 2**

# GIANTS REEF EXPLORATION PTY LTD

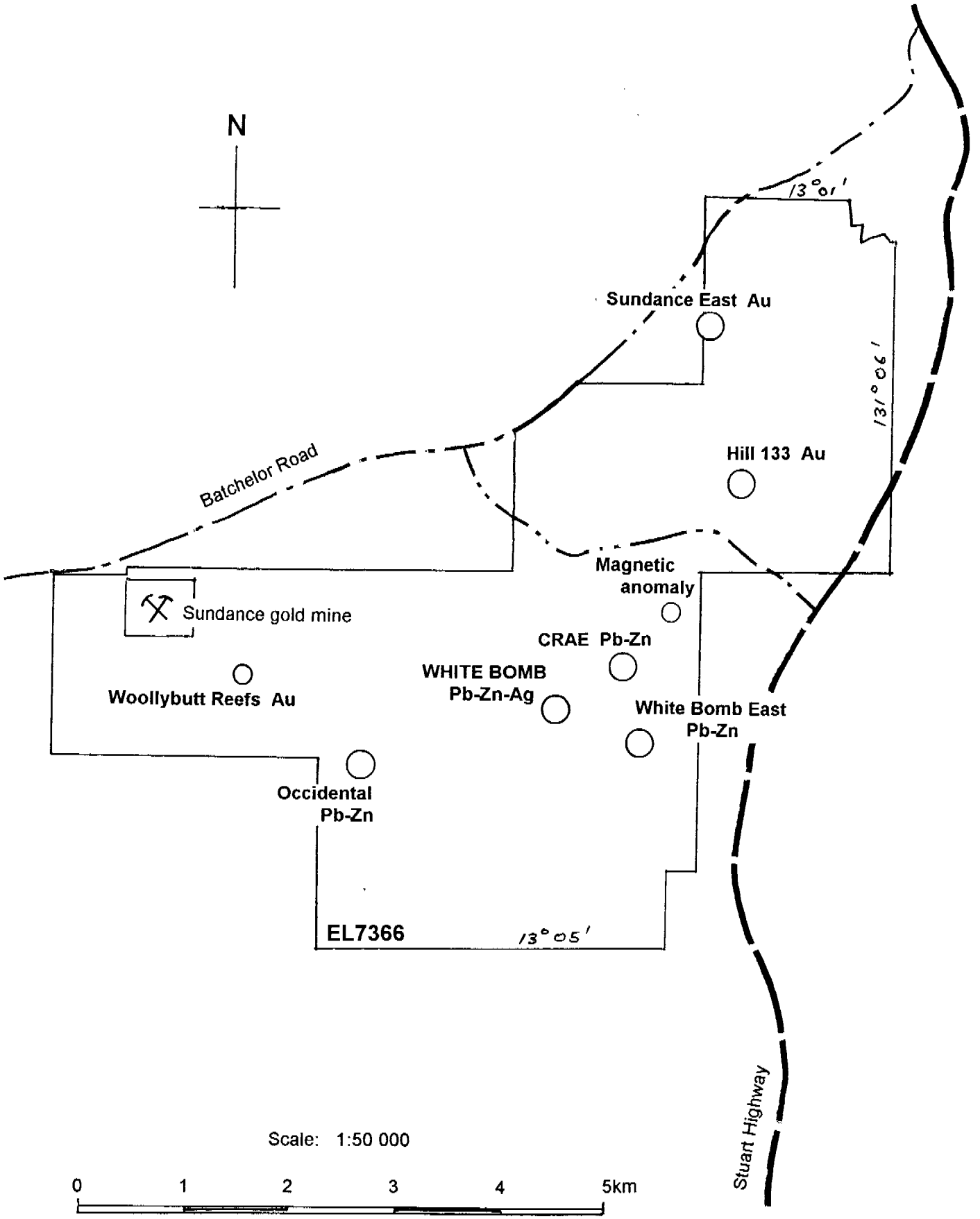



EL7366

## REGIONAL GEOLOGY

**FIGURE 3**

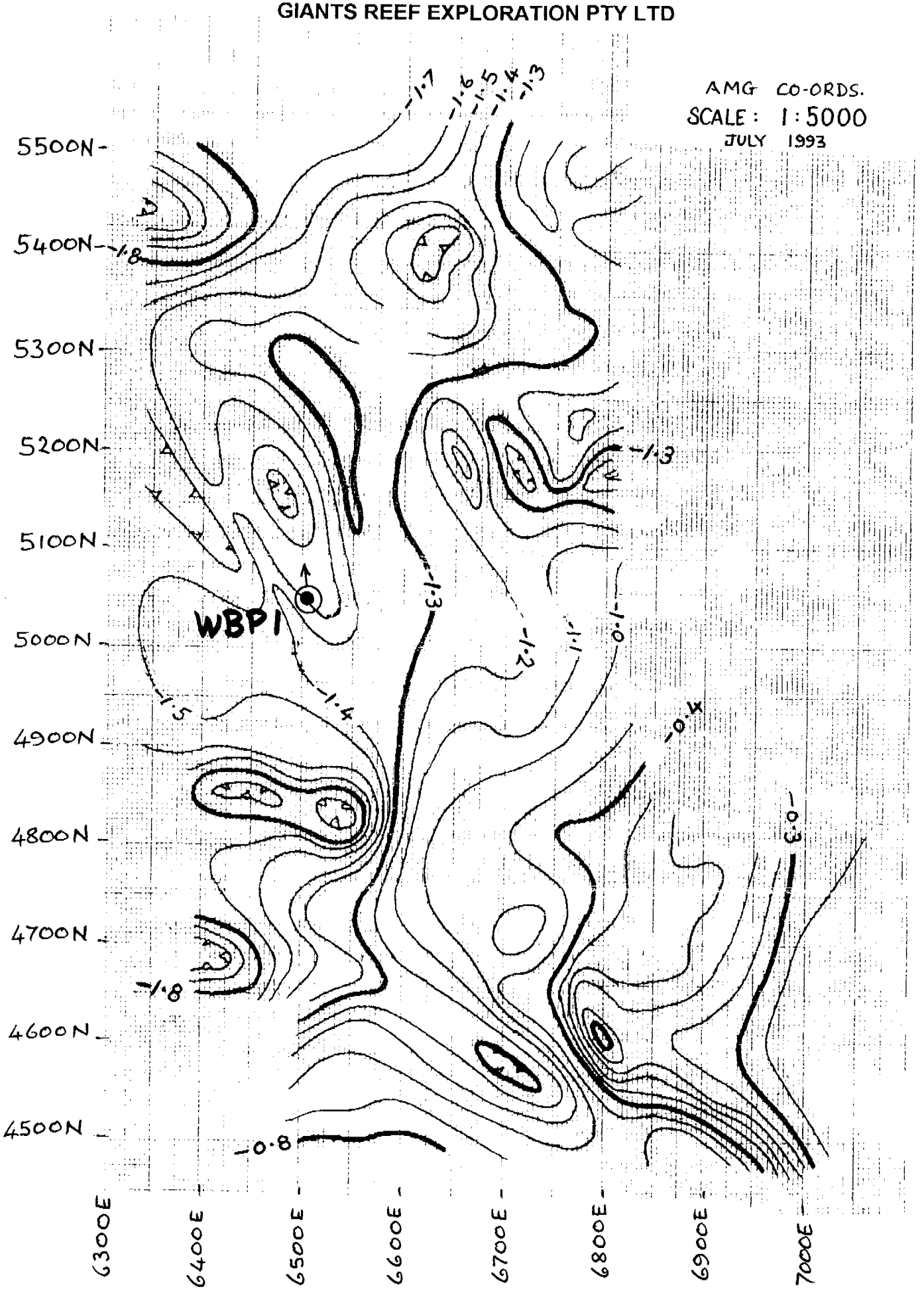
GIANTS REEF EXPLORATION PTY LTD




PROSPECT LOCATIONS IN EL7366

FIGURE 4

GIANTS REEF EXPLORATION PTY LTD




WHITE BOMB GRAVITY CONTOURS

FIGURE 5

WHITE BOMB SOIL GEOCHEMISTRY ORIENTATION

EL7366

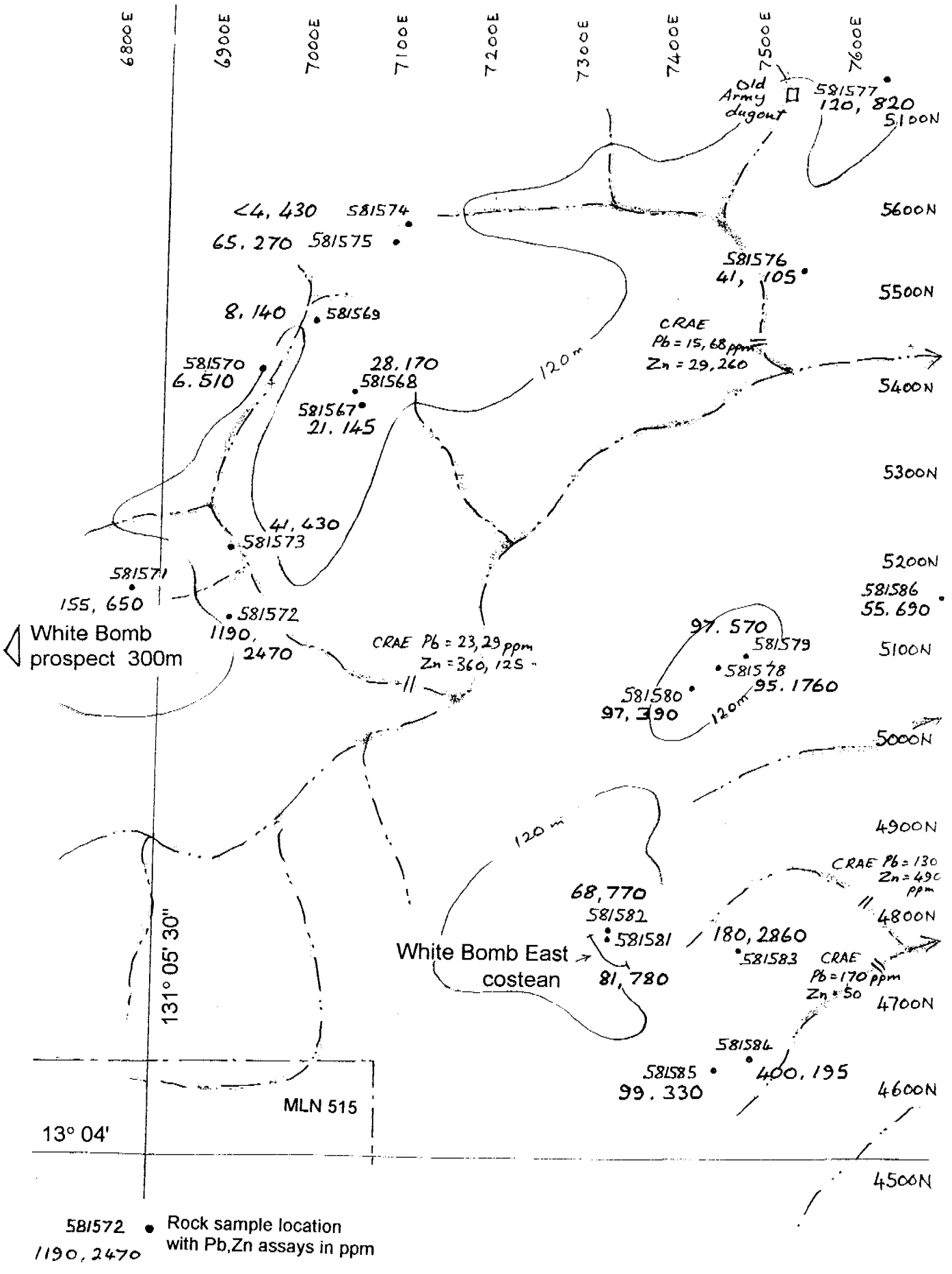
GIANTS REEF EXPLORATION PTY LTD

**line 6500E**

| NORTHING | NOTES | SAMPLE Nos. | | ASSAY RESULTS IN PPM −2mm | −40 to +80 mesh | −80 to +200 mesh | −200 mesh |
|---|---|---|---|---|---|---|---|
| 5225 N | Steep slope (30°) to N. Siltstone outcrops below dolerite band. Grey soil. | 646029 (−2mm) | Cu | 44 | 55 | 45 | 84 |
| | | | Pb | 48 | 59 | <4 | <4 |
| | | 646037 (finer fracts.) | Zn | 88 | 105 | 56 | 50 |
| | | | As | | | | |
| 5200N | Steep slope. Dolerite outcrop, near contact c sediments, is 10m up hill. Grey soil. | 646030 (−2mm) | Cu | 81 | 54 | 43 | 69 |
| | | | Pb | 55 | 74 | 48 | 60 |
| | | 646038 (finer fracts.) | Zn | 87 | 94 | 62 | 66 |
| | | | As | | | | |
| 5175 N | Off N. side of ridge. Quartzite/sstn outcrops and rubble. Grey soil. | 646031 (−2mm) | Cu | 37 | 42 | 37 | 58 |
| | | | Pb | 49 | 74 | 27 | 41 |
| | | 646039 (finer fracts) | Zn | 30 | 47 | 9 | 10 |
| | | | As | | | | |
| 5150 N | Quartzite/sstn rubble on top of ridge. Grey soil. | 646032 (−2mm) | Cu | 15 | 45 | 39 | 59 |
| | | | Pb | 100 | 170 | 81 | 155 |
| | | 646040 (finer fracts.) | Zn | 18 | 56 | 5 | 17 |
| | | | As | | | | |
| 5125 N | S. fall of ridge. Quartzite /sandstone outcrops and rubble. Grey Soil. | 646033 (−2mm) | Cu | 39 | 32 | 42 | 49 |
| | | | Pb | 180 | 220 | 160 | 175 |
| | | 646041 (finer fracts) | Zn | 23 | 49 | 22 | 13 |
| | | | As | | | | |
| 5100 N | S. Slope. 15m W of main White Bomb gossan. Red-brown soil. Q'ite rubble and goss. bldrs. | 646034 (−2mm) | Cu | 53 | 48 | 51 | 71 |
| | | | Pb | 980 | 1160 | 960 | 980 |
| | | 646042 (finer fracts.) | Zn | 155 | 170 | 150 | 135 |
| | | | As | | | | |
| 5075N | S. Slope. Red-br soil, mixed gossanous and quartzite/sstn rubble. | 646035 (−2mm) | Cu | 43 | 48 | 59 | 61 |
| | | | Pb | 1040 | 990 | 940 | 870 |
| | | 646043 (finer fracts.) | Zn | 240 | 240 | 210 | 150 |
| | | | As | | | | |
| 5050 N | Near base of steeper part of slope, 50m N of creek. Red-br soil, at least partly transported. | 646036 (−2mm) | Cu | 150 | 39 | 39 | 47 |
| | | | Pb | 1200 | 1330 | 1000 | 990 |
| | | 646044 (finer fracts.) | Zn | 300 | 360 | 270 | 240 |
| | | | As | | | | |

NOTE: ARSENIC LEVELS WERE ALL LESS THAN 50ppm (the detection limit of method AAS 2).

FIGURE 6



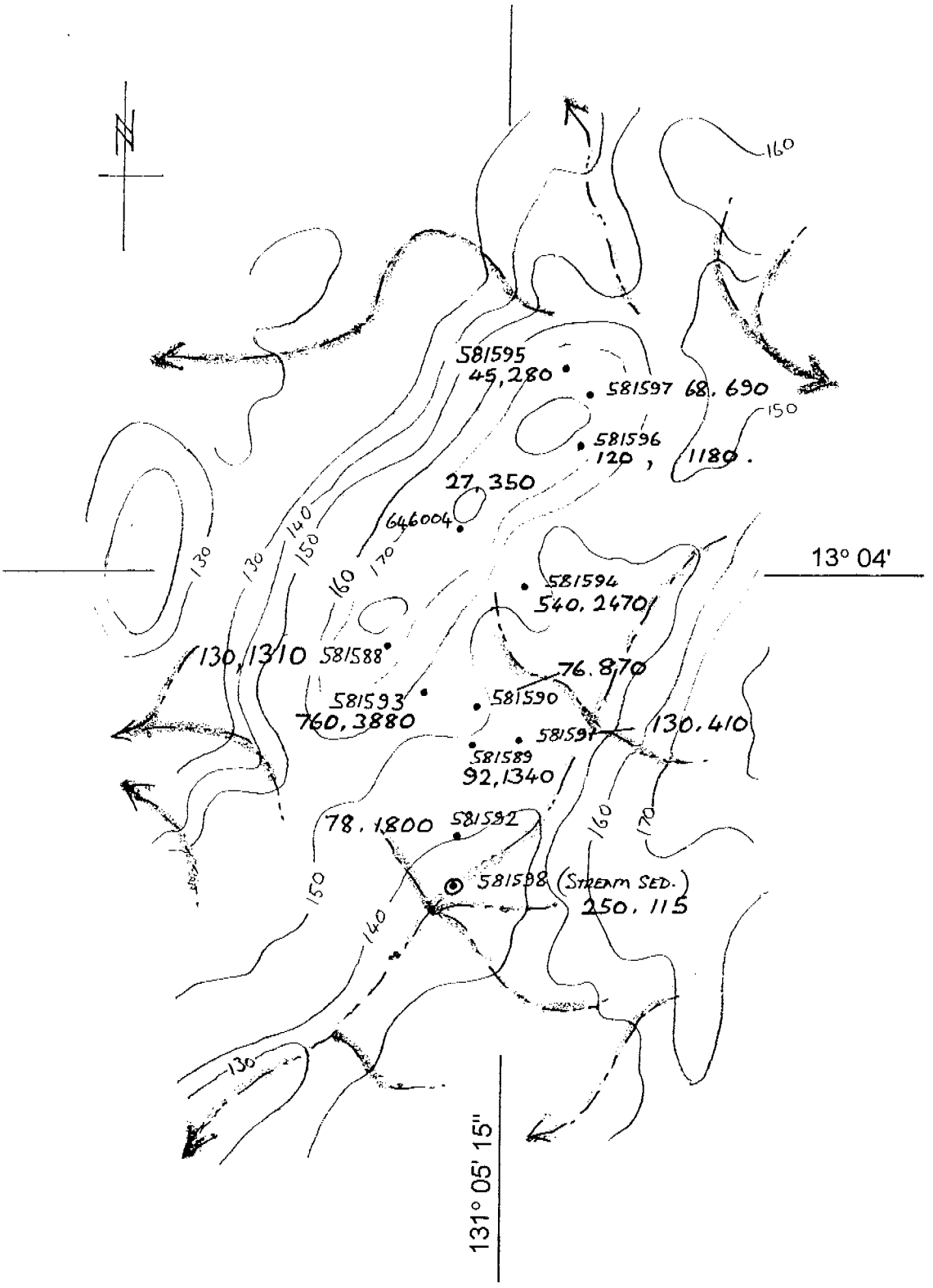

EL7366

July 1993

CRAE LEAD-ZINC PROSPECT

FIGURE 7

GIANTS REEF EXPLORATION PTY LTD




581590 • 76, 870 Rock sample location with Pb, Zn in ppm

0 100 200 300 400 500m

Photo enlarged from Batchelor 1:50 000 topo sheet 5171-4

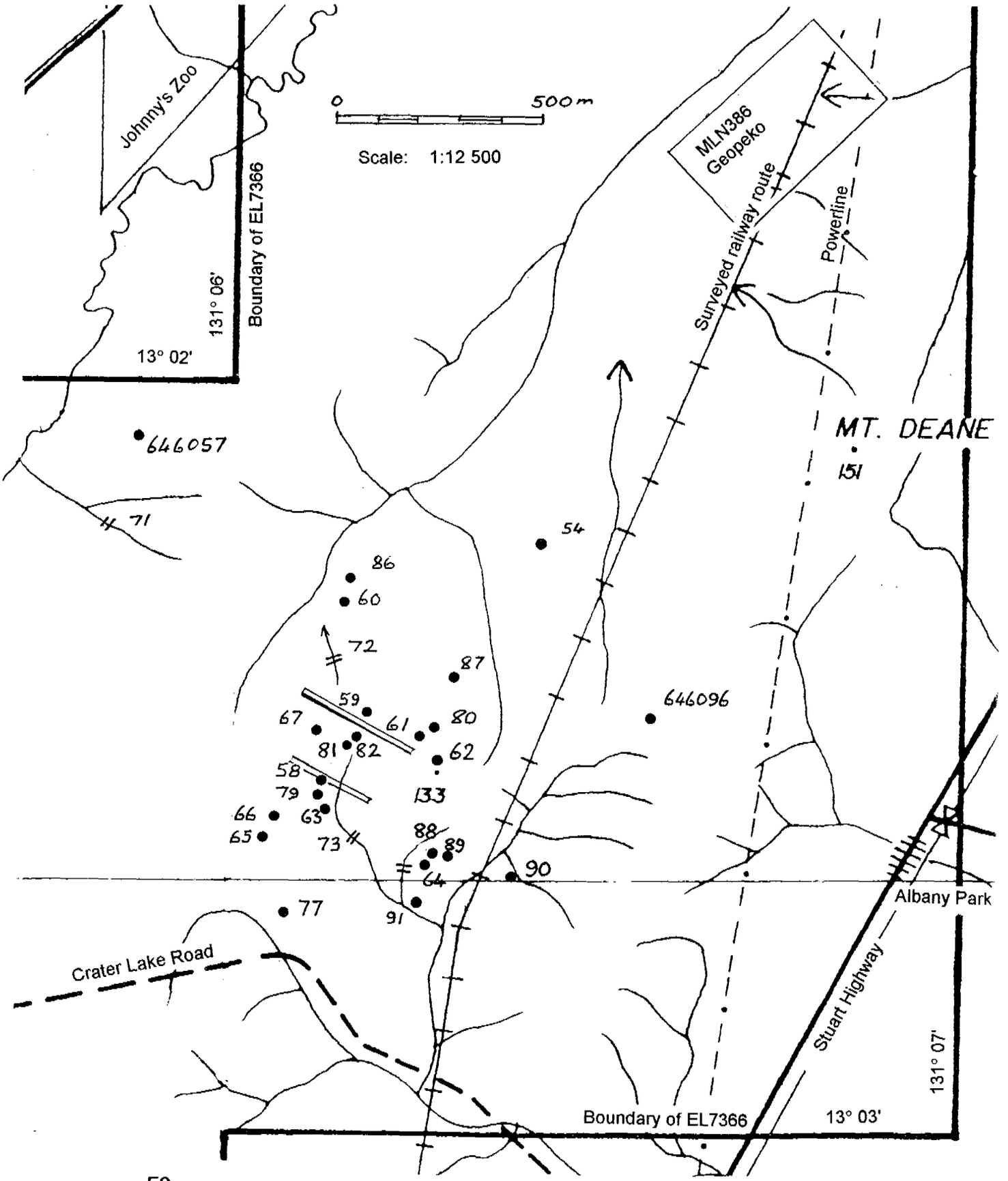
EL7366

July 1993

OCCIDENTAL LEAD-ZINC PROSPECT

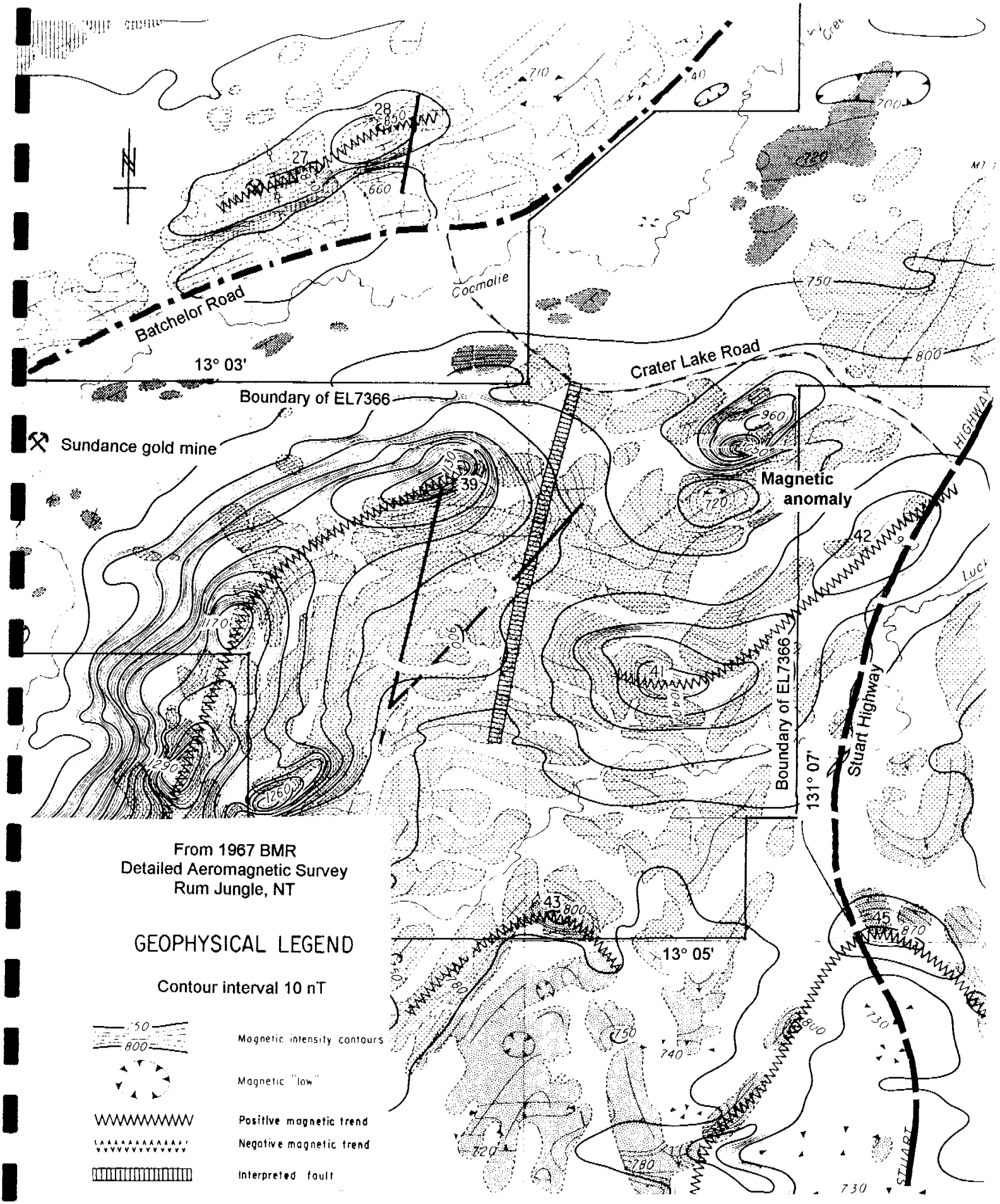
FIGURE 8

GIANTS REEF EXPLORATION PTY LTD




HILL 133 GOLD PROSPECT: SAMPLE LOCATIONS

FIGURE 9




EL7366 MAGNETIC ANOMALY **FIGURE 10**

# APPENDIX 1

## WHITE BOMB COSTEAN ASSAYS

R22/6/93

21 Marjorie Street, Berrimah, Northern Territory
Postal Address : P.O. Box 58, Berrimah, N.T. 0828
Telephone: (089) 322 637 Facsimile: (089) 323 531

Mr. N. Byrne
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0420 |
| Samples Received | : 02/06/93 | Results Reported | : 09/06/93 |
| Number of Samples | : 36 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL7366
White Bomb Costeans

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0420
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Pb | Zn | Ag |
|---|---|---|---|
| 581517 | 320 | 77 | <1 |
| 581518 | 1280 | 240 | <1 |
| 581519 | 4380 | 1300 | 2 |
| 581520 | 8730 | 2900 | 2 |
| 581521 | 4360 | 720 | 1 |
| 581522 | 2360 | 550 | 1 |
| 581523 | 2870 | 610 | <1 |
| 581524 | 3180 | 830 | <1 |
| 581525 | 3140 | 1830 | <1 |
| 581526 | 2040 | 520 | <1 |
| 581527 | 1690 | 640 | <1 |
| 581528 | 2600 | 590 | <1 |
| 581529 | 2350 | 700 | <1 |
| 581530 | 1480 | 340 | <1 |
| 581531 | 1230 | 290 | <1 |
| 581532 | 170 | 71 | <1 |
| 581533 | 150 | 63 | <1 |
| 581534 | 250 | 115 | <1 |
| 581535 | 530 | 520 | <1 |
| 581536 | 320 | 540 | <1 |
| 581537 | 300 | 740 | <1 |
| 581538 | 820 | 930 | <1 |
| 581539 | 790 | 440 | <1 |
| 581540 | 410 | 640 | <1 |
| 581541 | 340 | 350 | <1 |
| 581542 | 390 | 310 | <1 |
| 581543 | 76 | 115 | <1 |
| 581544 | 130 | 110 | <1 |
| 581545 | 69 | 58 | <1 |
| 581546 | 230 | 240 | <1 |
| 581547 | 145 | 350 | <1 |
| 581548 | 150 | 210 | <1 |
| 581549 | 230 | 210 | <1 |
| 581550 | 250 | 180 | <1 |
| 581551 | 740 | 150 | <1 |
| 581552 | 870 | 165 | <1 |

East costean

Middle costean

West Costean

EL 7366

White Bomb Costeans

| UNITS | ppm | ppm | ppm |
|---|---|---|---|
| DET.LIM | 4 | 2 | 1 |
| SCHEME | AAS2 | AAS2 | AAS2 |

# APPENDIX 2

## WHITE BOMB PROSPECT DRILL LOGS

Prospect WHITE BOMB EL7366
Co-ordinates 6521·6E 5049·5N
RL 87·3m
Direction 347·5° Angle -54°

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No. WBP 1**

Page 1 of 3

| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| 646228 | | | Weath'd Siltstone – buff, br, dk red + dk grey. | 1640 | 3630 | <1 | |
| 646229 | | | " " " " " " Light br, dk red, buff + blackish | 1960 | 2840 | " | |
| 230 | 5 | | Multicoloured W'd Slst. Some blackish Fe ox chips | 650 | 1580 | " | |
| 231 | | | Becoming more grey. Some graphite. | 660 | 2330 | " | |
| 232 | | | Blackish + dk red, finely micaceous, less w'd Slst. | 1010 | 2610 | " | |
| 233 | 10 | | Similar. Graphitic. Moderately weath'd. | 470 | 2430 | " | |
| 234 | | | " " " | 730 | 2300 | " | |
| 235 | 15 | | " " " | 1110 | 2560 | " | |
| 236 | | | " " " | 1140 | 2500 | " | |
| 237 | | | Brownish-black Slst, very w'd. Many ferrug. chips | 1270 | 2980 | " | |
| 238 | 20 | | Same. Damp after 18m | 2000 | 3000 | 16 | |
| 239 | | | Brown + red br; v. w'd. Haem + limonite " | 520 | 1800 | <1 | |
| 646240 | 25 | | " " " " Few qtz veins. Tr Visible galena | 210 | 1330 | " | |
| 241 | | | Dark grey + red-br Slsts. Some Fe Ox veins. | 270 | 1250 | " | |
| 242 | | | Similar. Slst is v fgr to finely sandy text. | 370 | 1610 | " | |
| 243 | 30 | | Grey to black graphitic Slst. Weath'd. Few limonitic surfaces. | 165 | 1110 | " | |
| 244 | | | Same " " " " | 620 | 1250 | " | |
| 245 | 35 | | Same " " " " | 170 | 1640 | " | |
| 246 | | | Dark grey-black + red-br Slst. Limonitic joints. | 185 | 2760 | " | |
| 247 | | | " " " " " | 600 | 2540 | " | |
| 248 | 40 | | Dark grey-black + dark br weakly w'd Slst. Pyrite. | 320 | 2710 | " | |
| 249 | | | Same. Some pyritic, + limonitic chips. | 93 | 1630 | 10 | |
| 646250 | 45 | | Weakly w'd graphitic + pyritic Slst. No veining. | 370 | 2480 | 5 | |
| 251 | | | Same with 1% quartz veining. | 1340 | 2940 | <1 | |
| 252 | | | Same – Dark grey-black weakly w'd Slst. Pyrite clots to 3mm | 880 | 3140 | " | |
| 253 | 50 | | " " " " " | 340 | 1290 | " | |
| 254 | | | " " " " Rare qtz veins c py | 500 | 2190 | " | |
| 646255 | 55 | | " " " " " " No qtz veins. | 230 | 910 | " | |
| | | | " " " " " " | | | | |
| | | | " " " " " " | | | | |
| | | | " " " " " " | | | | |
| | | | " " " " " " | | | | |
| | | | " " " " " " | | | | |
| | | | " " " " " " Nearly fresh: less weathered | | | | |
| | | | " " " " " " | | | | |
| | | | " " " " " " Few % red-br w'd chips-contam? | | | | |
| | | | Similar – Dark grey + greeny grey graph/py. Slst. Minor w'd contam. | | | | |
| | | | " " " " " " | | | | |
| | | | Mid-grey fgr sandy Slst + blackish f. gr graph/py Slst. | | | | |
| | | | " " " " " " | | | | |
| | | | All dark grey-black graph./py. Slst. | | | | |
| | | | 50% " " " " and 50% mid-grey finely sandy | | | | |
| | | | 80% " " " " 20% " " Slst. | | | | |

Pyritic and graphitic Siltstone

Notes

Target Mineralisation below White Bomb gossan — Logged by RGS

Rig Warman 1000 - 3 Driller A. Sauffs / GADEN Hole diam. 5½" — Dates 9 - 12 July 1993

Prospect WHITE BOMB EL7366
Co-ordinates 6521·6 E 5049·5 N
Direction 347·5° Angle -54°

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No. WBP 1**



| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| 646256 | | | 80% dk grey-black graph/py s/st. Few goss chips: —contam? | | | | |
| | | | Same. (No goss!) | 460 | 1540 | 21 | |
| 257 | | | Same | | | | |
| | 60 | | Same. ~80% dark grey/black s/st. 3-4% Py | 175 | 390 | " | |
| 258 | | | " " " rest mid grey s/st. | | | | |
| | | | " " " | 220 | 390 | " | |
| 259 | | | " " " | | | | |
| | | | " " " | 350 | 260 | " | |
| 646260 | 65 | | Nearly all dark grey-black. Minor grey sandy s/st. | | | | |
| | | | " " " Py, graph. | 440 | 95 | " | |
| 261 | | | " " " | | | | |
| | | | " " " | 350 | 670 | " | |
| 262 | | | " " " | | | | |
| | | | " " " | 430 | 84 | " | |
| | 70 | | " " " | | | | |
| 263 | | | " " " | 1010 | 330 | " | |
| | | | Same. Hard, fresh. No w'd contam. | | | | |
| 264 | | | Dk grey-black hard pyritic + graphitic s/st. | 620 | 180 | " | |
| | | | " " " | | | | |
| 265 | 75 | | Same with some pale green-grey Vfgr sandy s/st. | 380 | 175 | " | |
| | | | " " " | | | | |
| 266 | | | All dark gr-black pyr/graph. s/st 6-7% Py? | 790 | 120 | " | |
| | | | " " " Very graphitic | | | | |
| 267 | | | " " " | | | | |
| | | | " " " | 360 | 580 | " | |
| 268 | 80 | | " " " | | | | |
| | | | " " " | 340 | 300 | " | |
| 269 | | | " " " | | | | |
| | | | " " " | 270 | 310 | " | |
| 646270 | | | " " " | | | | |
| | 85 | | " " " | 2320 | 620 | " | |
| 271 | | | " " " Rare qtz v's. | | | | |
| | | | " " " " | 1490 | 480 | " | |
| 272 | | | " " " Minor qtz v's | | | | |
| | | | " " " " | 3230 | 650 | " | |
| 273 | 90 | | " " " Trace sphal " | | | | |
| | | | " " " Minor qtz v's | 1780 | 550 | " | |
| 274 | | | " " " | | | | |
| | | | " " " | 3300 | 1490 | " | |
| 275 | 95 | | " " Some collapse. Sphal. on chip. | | | | |
| | | | " " Driller says getting softer. | 2590 | 950 | 7 | |
| 276 | | | Blackish + dk grey pyritic graphitic s/st, sim. to above | | | | |
| | | | Blackish + greenish " " Minor sphal + Aspy | 2910 | 700 | <1 | <50 |
| 277 | | | Dark green, light green + grey fg qtz sstn or qtzite. | | | | |
| | 100 | | " " (chloritic) " " Light + dark sphal. | 3460 | 1210 | " | " |
| 646278 | | | Same + 20% qtz v's. " fg sstn: minor gal + sphal. | | | | |
| 279 | | | " " " " " " | 5970 | 2130 | " | " |
| 280 | | | Dolerite. Chloritic. Pyrite + sphal + gal (dissem. + veins) | 3870 | 1·43% | 4 | " |
| 281 | | | " " 1-2% py; 5% qtz veins. | 6620 | 3070 | 4 | 130 |
| 282 | 105 | | " " 3-4% dark metallic sphal, 2% qtz v. | 3100 | 1350 | 2 | 110 |
| 283 | | | Dolerite - Chloritic + sericitic. Light-dark sphal. | 5·74% | 1090 | 10 | <50 |
| 284 | | | Altid dolerite. Several % brown sphal + galena. | 1·16" | 1650 | 2 | 90 |
| 285 | | | " " " " ; minor gal. | 1·57" | 1·34% | 5 | 130 |
| 286 | | | " " 10% sph + gal. Some dissem. No qtz | 5·34" | 8500 | 7 | 80 |
| 646287 | 110 | | " " Clots of sph. + gal = 3?%. 1-2% white qtz | 12·4" | 1·13% | 10 | 70 |
| | | | | 7010 | 1240 | <1 | 60 |

Pyritic graphitic siltstone. | Sandy + fgr s/st | Chloritic dolerite.

Notes Quartz noted after 100m may be calcite, at least some of it.

Target Mineralisation under the White Bomb gossan. Logged by PGS

Rig Warman 1000-3 Driller A. Sauffs / GADEN Hole diam. 5½" Dates 9 - 12 July 93

Prospect WHITE BOMB EL7366
Co-ordinates 6521·6E 5049·5N
Direction 347·5° Angle -54°

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No.** WBP1



| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| 646288 | 110 | F- | Chloritic v. alt'd dolerite. Minor sphal. + gal. | 4730 | 1160 | 2 | 90 |
| 289 | | | " " " Several % " " | 9·50% | 4890 | 10 | 190 |
| 646290 | | | " " " Minor to ? 1% sph. + gal. | 6780 | 1030 | <1 | 120 |
| 291 | | | " " " " " " | 3520 | 940 | " | 90 |
| 292 | 115 | | " " " " " " | 1·18% | 2000 | 3 | 100 |
| 293 | | | Same rock. Est. 15% Coloured sphal, mostly dark. | 13·6" | 9800 | 45 | 210 |
| 294 | | | " " " " " 1% gal. | 7·04" | 2850 | 19 | 90 |
| 295 | | | " " Abundant galena + sphal. Minor pyrite | 24·3" | 1·23% | 120 | 160 |
| 296 | | | " " " " " " | 13·4" | 5·26" | 54 | 430 |
| 297 | 120 | | " " 5–6% sphal, minor gal. | 8·66" | 2·70" | 40 | 220 |
| 298 | | | " " Few % " " | 3·08" | 1·41" | 13 | 120 |
| 299 | | | " " Minor Pb + minor sphal. | 4790 | 4760 | 3 | 80 |
| 646300 | | | " " 1–2% gal + sphal. Minor pyrite. | 2810 | 2490 | 2 | 60 |
| 301 | | | " " " " " | 1·38% | 1·15% | 7 | 70 |
| 302 | 125 | | " " " Sphal is pale orange colour. | 4510 | 1300 | 2 | 80 |
| 303 | | | " " " Minor sphal + galena. | 4870 | 3270 | 3 | 70 |
| 304 | | | " " chloritic, weakly pyritic, (as above). | 3960 | 2950 | <1 | 120 |
| 305 | | | " " No gal; trace sphal. | 1410 | 640 | " | 120 |
| 306 | | | " " " " " | 1780 | 470 | " | 130 |
| 307 | | | " " " " " Minor sphal. | 3040 | 460 | " | 140 |
| 308 | 130 | | " " " " " | 2540 | 260 | " | 130 |
| 309 | | | Mainly alt'd dolerite. Some chunks chlor. fgr sandy | 1740 | 1990 | " | 100 |
| 646310 | | | Greenish (chlor) V fg slst, + Black py/graph slst. slst. | 3520 | 2110 | " | 70 |
| 311 | | | Same 10% white qtz or carbonate veins. Tr sphal. | 3060 | 1280 | " | 80 |
| 312 | 135 | | " " " " | 1390 | 500 | " | <50 |
| 313 | | | " " " " | 3050 | 1470 | " | 80 |
| 314 | | | Dark graphitic slst - less fgr sandy slst. Ca v's; sphal. | 7690 | 950 | " | 290 |
| 315 | | | Same. No sphal. seen. | 2920 | 680 | " | 90 |
| 316 | | | Black-grey graphitic pyritic slst/shale. 10% Ca v's. | 1090 | 160 | " | 80 |
| 317 | | | Same " " Trace sphalerite | 370 | 160 | " | 90 |
| 318 | 140 | | " " " 1–2% Calcite veins. | 320 | 115 | " | 110 |
| 319 | | | Same. Pyritic + very graphitic slst. | 290 | 130 | " | <50 |
| 646320 | | | 90% black " " " 10% fgr sandy slst. | 620 | 450 | " | 130 |
| 646321 | 144 | | All " " ? 25% pyrite. Few % Calcite V's. | 360 | 550 | " | 240 |

Hole stopped at 144m — out of rods and becoming difficult to continue because of water pressure. Also the hole appeared to be through the target mineralization.

Driller says fault around 111–112m.

Water flow by ~70m = 1200 gallons/hr or more. Flow increased to 2000 gph by end of hole.

Water level in hole on 14/7/93 was at 12·7m from surface.

Notes

Target Mineralisation under the White Bomb gossan. Logged by PGS

Rig Warman 1000 · 3 Driller A. Sauffs / GADEN Hole diam. 5½" Dates 9 – 12 July 1993

Prospect WHITE BOMB EL7366
Co-ordinates 6452 E
RL 92·0 m 5072 N
Direction 22·5°m Angle -51°

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No.** **WBP2**

Page 1 of 3

| sample | Depth (m) | Visual log | Description | Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| | | | | Analyses (ppm) | | | |
| 646322 | | | Orange, maroon + pale green w/d slst. Weath'd. | 480 | 1110 | <1 | <50 |
| 323 | | | " " " " " " | | | | |
| 324 | 5 | | " " " " " " | 270 | 1060 | " | " |
| 325 | | | Similar; also yellowish + grey. Finely micaceous. Mostly dark maroon-red, + other colours. | 290 | 1480 | " | " |
| 326 | | | Coloured, weathered + weakly graphitic siltstone. | 380 | 1980 | " | " |
| 327 | 10 | | " " " " | 470 | 2620 | " | " |
| 328 | | | Mostly buff - rest multicoloured. | 400 | 3330 | 2 | " |
| 329 | 15 | | Dark red, br, grey, yellow; with fine mica. | 610 | 3030 | 5 | 70 |
| 646330 | | | Mostly brown and maroon. | 1480 | 6880 | 29 | 140 |
| 331 | | | " " " with minor qtz veins | 1420 | 1·97 % | 31 | 110 |
| 332 | 20 | | Various brown colours. | 1600 | 1·25 % | 14 | 150 |
| 333 | | | " " and some grey. | 1460 | 9200 | 7 | 160 |
| 334 | 25 | | Mostly or-br w/d siltstone: Some ? goss. chips | 2610 | % 2·50 | 8 | 170 |
| 335 | | | " " " " " | 880 | 3550 | 6 | <50 |
| 336 | | | Dark y-br w/d slst. Micaceous. Limonite boxwks. | 500 | 1190 | 5 | " |
| 337 | 30 | | Similar. Dark hard gossany chips. | 330 | 690 | 6 | " |
| 338 | | | Very dark brown sample. Hackly goss chips. Qtz v. | 110 | 340 | <1 | " |
| 339 | 35 | | W/d y-br + grey graph slst. Goss chips + holes = 30% | 105 | 350 | " | " |
| 646340 | | | " " " " " " | 16 | 370 | " | " |
| 341 | | | Well w/d br + grey slst; 20% qtz; some goss chips. | 9 | 220 | " | " |
| 342 | 40 | | Dk grey + graphitic " ; 10% ; " " " | 67 | 96 | " | " |
| 343 | | | Grey qtzy silts, some brown (w/d); minor qtz | 200 | 210 | " | " |
| 344 | 45 | | Same. Quartzy silts (= f.gr slst.); greenish | 195 | 125 | " | " |
| 345 | | | Dark grey-black slatey to sandy weakly w/d slst. | 210 | 480 | 4 | " |
| 346 | | | " " " " " | 350 | 70 | 2 | " |
| 347 | 50 | | Same, with rare fresh pyrite, but w/d. | 195 | 250 | 3 | " |
| 348 | | | " " " " " | 430 | 240 | 2 | " |
| 646349 | 55 | | " " " " " | 16 | 370 | " | " |
| | | | " " " " " | 9 | 220 | " | " |
| | | | " " " " Unweathered. | 67 | 96 | " | " |
| | | | Dark grey + black slatey to coarse graph./py slst. " | 200 | 210 | " | " |
| | | | " " " " " | 195 | 125 | " | " |
| | | | First damp sample. Same rock. 10% ? contam. | 210 | 480 | 4 | " |
| | | | Black-grey slt st. " " | 350 | 70 | 2 | " |
| | | | Same " " | 195 | 250 | 3 | " |
| | | | Same. Dk grey-black py/graph slst. Contam. | 430 | 240 | 2 | " |
| | | | " " " " | 610 | 120 | <1 | " |
| | | | Black graphitic/pyritic fine to coarse Siltstone. | 230 | 220 | 3 | " |
| | | | " " " " " | | | | |
| | | | Similar, but coarse (sandy) slst increasing. | | | | |
| | | | " " " " " | | | | |
| | | | Same. 10% weathered contam. Minor sandy beds | | | | |

pyritic and graphitic siltstone

Notes

Target Extension of Pb-Zn mineralization in WBP1 Logged by PGS

Rig Warman 1000-3 Driller A. Sauffs / GADEN Hole diam. 5½" Dates 14-15 July 1993

Prospect WHITE BOMB EL7366
Co-ordinates 6452 E RL 92.0m 5072 N
Direction 22.5°M Angle -51°

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No. WBP2**

Page 2 of 3

| sample | Depth (m) | Visual log | Description | Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| | | | | Analyses (ppm) | | | |
| 646350 | | | Black pyritic/graph siltst with minor sandy beds. | | | | |
| 351 | | | " " " | 380 | 110 | <1 | <50 |
| 352 | 60 | | " " " Sandy (= f.gr arenaceous siltstone) | 340 | 74 | " | <50 |
| 353 | | | " " " decreasing ↓. | 340 | 89 | 1 | " |
| 354 | 65 | | " " " Few % sandy | 310 | 55 | <1 | " |
| 355 | | | All black-grey f.gr. graph/py slts. | 490 | 81 | " | " |
| 356 | | | 30% v.f.gr. quartzite (sstn). Rest black/graph. Mixed black graphitic and green-grey sandy. | 430 | 45 | " | " |
| 357 | 70 | | Same. Pyrite content 1–2 % | 590 | 80 | " | " |
| 358 | | | " " " " | 530 | 135 | " | " |
| 359 | 75 | | Dark grey-black hard siliceous? slst. Py + graph. | 1550 | 125 | " | " |
| 646360 | | | Similar with 5% dark pyritic ?greywacke. | 450 | 160 | 2 | " |
| 361 | | | Same. " " " Big hard chips | 170 | 125 | 1 | 60 |
| 362 | 80 | | Same | 280 | 94 | <1 | <50 |
| 363 | | | Mixed bl shale, graph/py slst; coarser grey-black sed. | 280 | 160 | 1 | 60 |
| 364 | 85 | | Dark grey-black graphitic silts; 5%? pyrite. | 320 | 110 | 1 | <50 |
| 365 | | | " " " " | 310 | 105 | <1 | " |
| 366 | | | " " " " | 570 | 105 | 2 | " |
| 646367 | 90 | | " " " Minor qtz veins. | 850 | 88 | 2 | " |
| 368 | | | Similar. Several % qtz veins with minor Spal | 5970 | 56 | 2 | " |
| 369 | | | Same. and galena. | 1740 | 79 | 1 | " |
| 646370 | | | Black pyr. graph slst; few % qtz, No sphal or gal. | 840 | 56 | 1 | " |
| 371 | 95 | | Same. minor light green sandy pyritic beds. | 530 | 58 | 1 | " |
| 372 | | | " " " " " | 460 | 41 | 1 | " |
| 373 | | | Black py. graph slst. 10% v.f.gr quartzite beds. | 410 | 32 | <1 | " |
| 374 | | | " " " 5% " " | 460 | 13 | " | " |
| 375 | | | Same rock; 15% white quartz veins. Green fgrsstn | 360 | 31 | " | " |
| 376 | 100 | | 90% green-white vfgr sstn, py. Rest black shale. | 670 | <4 | " | " |
| 377 | | | " " " " " | 1050 | 44 | " | " |
| 378 | | | Altered (chloritic) dolerite. Py dissem; few %. | 1110 | 660 | 1 | " |
| 379 | | | Same. Traces sphal in qtz. " " | 200 | 20 | <1 | 230 |
| 646380 | | | " Possibly v. fine sphal? (or other min) | 280 | 38 | " | <50 |
| 381 | 105 | | Alt'd dolerite. Few% white barren qtz veins. | 650 | 18 | " | " |
| 382 | | | Similar. less pyrite. | 610 | 6 | " | " |
| 383 | | | " " " | 350 | <4 | " | " |
| 384 | | | Dolerite. Darker, less altered. 1–2% diss. py | 440 | 4 | " | " |
| 385 | | | Same. " " " | 380 | <4 | " | " |
| 646386 | 110 | | Same. No qtz veins. | 260 | 5 | " | " |
| | | | " " " | 155 | <4 | 1 | " |

pyritic graphitic siltstone

chloritic pyritic dolerite

Notes

Target Extension of Pb-Zn mineralization found in WBP1 Logged by PGS

Rig Warman 1000-3 Driller A. Sauffs / GADEN. Hole diam. 5½" Dates 14-15 July 93

Prospect WHITE BOMB EL7366
Co-ordinates 6452E 5072N
RL 92·0m
Direction 22·5° Angle -51°

GIANTS REEF MINING N.L.

# RC PERCUSSION DRILL LOG

**Hole No. WBP2**

Page 3 of 3

| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| 646387 | | chloritic pyritic dolerite. | Dark, hard altered dolerite · Minor py. | 160 | <4 | 1 | <50 |
| 388 | | | " " " " | 195 | " | <1 | " |
| 389 | | | " " " " Pyrite decreasing | 170 | " | " | " |
| 646390 | | | " " " " | 140 | " | " | " |
| 391 | | | Dark green-brown micaceous (biot.?) dolerite · Py. | 170 | " | " | " |
| 392 | 115 | | " grey-br, pyritic. | 165 | " | " | " |
| 393 | | | | 130 | " | " | " |
| 394 | | | " brown-grey pyritic dolerite. | 130 | " | " | " |
| 395 | | | Dolerite - slightly altered. | 130 | " | " | " |
| 646396 | 120 | | Altered weakly pyritic dolerite: Few qtz veins | 370 | 96 | " | " |

Hole abandoned at 120m. Too much water pressure for the hammer to operate efficiently, and much rock falling in from upper part of the hole, with danger of rods getting stuck.

Notes

Target Extension of Pb-Zn mineralization found in WBP1 Logged by PGS

Rig Warman 1000·3 Driller Andy Sauffs Hole diam. 5½" Dates 14-15 July 1993

Prospect WHITE BOMB EL7366
Co-ordinates 6448E 5063N
RL 91·3m
Direction 22·5°M Angle -85·5°

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No. WBP 3**
Page 1 of 2

| sample | Depth (m) | Visual log | Description | Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| | | | | Analyses (ppm) | | | |
| 646397 | | | Orange weath'd s/st, some dark ferrug. chips. | 160 | 300 | <1 | <50 |
| " | | | " brown and greenish. | | | | |
| 398 | | | Coloured w'd Siltstone: Or, green, dk br, maroon, | 150 | 460 | " | " |
| " | | | Maroon and graphitic. grey and graphitic. | | | | |
| 399 | 5 | | Maroon, pink, grey + white w'eath'd s/st. | 145 | 460 | " | " |
| " | | | " " " | | | | |
| 646400 | | | " " " | | | | |
| " | | | " yellowish, white + grey w'd s/st. | 195 | 1320 | " | " |
| 401 | | | Mostly maroon, dk grey. Graphite floating off | 175 | 1170 | " | " |
| " | 10 | | " " " " " | | | | |
| 402 | | | " " " " " | | | | |
| " | | | Similar, with soft white clays also. | 125 | 920 | " | " |
| 403 | | | " " " | | | | |
| " | | | " " " | 140 | 1740 | " | " |
| 404 | 15 | | Similar - Maroon + grey graphitic s/st. | 260 | 2640 | " | " |
| " | | | " " " " | | | | |
| 405 | | | Dark brown, orange and grey graphitic s/st. | 210 | 2610 | " | " |
| " | | | " " " " " " " | | | | |
| 406 | | | " " " " " " " | 165 | 1830 | " | " |
| " | | | " " " " " " No goss. yet. | | | | |
| 407 | 20 | | Dark red and grey graphitic s/st. | 120 | 2430 | " | " |
| 408 | | | Similar — some ferruginous chips. | | | | |
| 409 | | | " " " | 105 | 1690 | " | " |
| 646410 | | | " " " | | | | |
| 411 | | | " " " | | | | |
| 412 | 25 | | Black + dark grey very graphitic weakly w'd s/st. | 130 | 2170 | " | " |
| 413 | | | " " " " | | | | |
| 414 | | | " " " " | 145 | 1110 | " | " |
| 415 | | | " " " " | | | | |
| 416 | | | " " " " | 370 | 185 | " | " |
| 417 | 30 | | Same, with few % pyrite. | | | | |
| 418 | | | V.f. gr (graphitic) and coarse grey s/st, with pyrite. | 190 | 160 | " | " |
| 419 | | | Same. Still partly weathered. No goss or qtz v. | | | | |
| 646420 | | | Same. Weathered material from up hole ?? | 300 | 170 | " | " |
| 421 | 35 | | Same. Soft, very graphitic s/st. | | | | |
| 422 | | | " Dark grey - Black + red s/ w'd s/st. No py | 260 | 420 | " | " |
| 423 | | | Dk coarse + fine textured pyritic graphic s/st. | | | | |
| 424 | | | Similar. Pyrite dissem and in occas. qtz v. | 310 | 1090 | " | " |
| 425 | | | Still partly weath'd. Pyritic. Some FeOx chips. | | | | |
| 426 | 40 | | Very graphitic pyritic s/st as above. | 250 | 830 | " | " |
| 427 | | | " " " " " | | | | |
| 428 | | | Same. Fine and coarse textured siltstone. | 310 | 460 | " | " |
| 429 | | | Similar. Minor weath'd qtz veins, with py. | | | | |
| 646430 | | | Similar. Dark grey-black and red (w'd) graphitic. | 380 | 710 | " | " |
| 431 | 45 | | " " " " | | | | |
| 432 | | | Mostly f. gr., rather slatey, graphitic s/st. | 680 | 840 | " | " |
| 433 | | | " " " " | | | | |
| 434 | | | Siltstone: mixed slatey to f-gr sandy. 5-8% Py. | 730 | 370 | " | " |
| 435 | | | " " " (+ graphitic) " | | | | |
| 436 | 50 | | " " " " " 3-4% py | 390 | 290 | " | " |
| 437 | | | " " " " " | | | | |
| 438 | | | Same - black - grey varying grain size. Graph., Py. | 590 | 600 | " | 60 |
| 439 | | | " " " " " | | | | |
| 440 | | | " " " " " | 660 | 240 | " | 70 |
| 646441 | 55 | | Siltstone: Pale green-grey (sandy) and black slatey. Py. | 610 | 200 | " | <50 |

Pyritic and graphitic siltstone

Notes

Target Downdip extension to S of mineralisation in costean Logged by PGS

Rig Warman 1000·3 Driller A. Sauffs / GADEN Hole diam. 5½" Dates 14-16 July 1993

Prospect WHITE BOMB EL7366
Co-ordinates 6448 E
RL 91·3m 5063 N
Direction 22·5° Angle -85

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No. WBP3**



| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| 646442 | | | Siltstone. Pale green-grey + black slaty. Some contam. | | | | |
| 443 | | | " " " " " | | | | |
| 444 | | | " " " " " | 2390 | 290 | <1 | <50 |
| 445 | | | 50% mid-grey f.gr. arenaceous s/st. Py. Rest black | | | | |
| 446 | -60 | | " " " " | 1810 | 1100 | " | " |
| 447 | | | Mostly black, graphitic. Partly arenaceous. Trgal. | | | | |
| 448 | | | Siltstone. 50% f.gr. sandy. Trace-minor galena. | 3570 | 3180 | 3 | " |
| 449 | | | Similar. Minor galena in green-grey sandy bands. | | | | |
| 646450 | | | " " " " " | 5890 | 4050 | 4 | " |
| 451 | -65 | | Black (graphitic) + grey (fine sandy) s/st. Sphal. + gal. | 1·90 % | 7400 | 8 | " |
| 452 | | | " (50%) " (50%) " Minor " " | | | | |
| 453 | | | | | | | |
| 454 | | | 70% fine sandy s/st. 30% black, graphitic, py. Minor | 7640 | 4560 | 9 | " |
| 455 | | | 50% " " 50% " " " gal. | | | | |
| 456 | -70 | | 70% " " 30% " " Gal + sph. in | 2400 | 4850 | 26 | " |
| 457 | | | " " " " qtz veinlets | | | | |
| 458 | | | " " " " Minor sphal. + gal. | 1·60 % | 3720 | 15 | " |
| 459 | | | 50% " " " 1% ? " " | | | | |
| 646460 | | | " " " Minor sphal + gal in veins | 1·95 % | 1·45 % | 11 | " |
| 461 | -75 | | Similar. " " " " " | | | | |
| 462 | | | " Black graph/py + arenaceous. Some gal + sph | 5·12 % | 1·76 % | 10 | " |
| 463 | | | 50% each type. Minor sph. + gal. | | | | |
| 464 | | | Mostly dk grey-black py/graph s/st. | 6270 | 1520 | <1 | " |
| 465 | | | 78-81m: Driller reports Fault Zone. Same rock. | | | | |
| 466 | | | Siltstone - black; pyritic, graphitic. Minor sph + gal. | 7760 | 1650 | <1 | " |
| 467 | -80 | | Similar; hard " " " " | | | | |
| 468 | | | " " " " s/st. " " | 8910 | 3200 | 3 | " |
| 469 | | | " " " " " " " | | | | |
| 646470 | | | " " " " " " " | 6410 | 2560 | 2 | " |
| 471 | -85 | | Same. Black hard hackly (silic'd?) graph/py s/st. | | | | |
| 472 | | | " " " " Fine gal. on some fracts | 5670 | 1560 | <1 | " |
| 473 | | | Same. Pyrite 2-3%. No gal or sphal seen. | | | | |
| 474 | | | " " " Traces " " " | 1870 | 850 | " | " |
| 475 | | | Similar s/st. Minor gal. in qtz veins. | | | | |
| 476 | -90 | | Same rock. | 6020 | 1710 | 1 | " |
| 477 | | | " " Minor sphal + gal in qtz veinlets. | | | | |
| 478 | | | " " Trace galena. | 7810 | 1230 | <1 | " |
| 479 | | | Same - Dark hard hackly siltstone: py + graph. | | | | |
| 480 | | | " " " Traces sphal + galena | 9940 | 2720 | 4 | " |
| 481 | -95 | | " " " in qtz veinlets. | | | | |
| 646482 | | | " " " | 2970 | 960 | <1 | " |
| | | | End of hole @ 96 m. | | | | |
| | | | After 20m, the one-metre samples were composited (at the AMDEL Lab) into 2-m samples. | | | | |

Pyritic and graphitic siltstone

Notes

Target Downdip extension to S of mineralisation in costean Logged by PGS

Rig Warman 1000-3 Driller A. Sauffs / GADEN Hole diam. 5½" Dates 14-16 July 1993

Prospect WHITE BOMB EL7366
Co-ordinates 6530·5E 5047·8N
Collar RL = 87·8m
Direction 27·5°m Angle -55°

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No. WBP4**



| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| 646483 | | | Buff-br + red-br siltstone. V. weath'd. | 340 | 1630 | <1 | |
| 484 | | | Same " | | | | |
| 485 | 5 | | Same - buff, brown + grey. | 230 | 1530 | " | |
| 486 | | | Dark brown and faun coloured w'd s/st. | 230 | 1920 | " | |
| 487 | | | " " grey + grey-green " | 270 | 3460 | " | |
| 488 | 10 | | Graphitic grey green + brown w'd Siltstone. | 310 | 4450 | " | |
| 489 | | | Same, with limonitic qtz vein chips (lots) | 470 | 3110 | " | |
| 646490 | 15 | | Not graphitic. Grey pink + br w'd s/st. Fe Oxides | 480 | 3210 | " | |
| 491 | | | w'd brown, yellow etc. Fe oxides on fracts. | 800 | 2600 | " | |
| 492 | | | Brown and grey (graphitic) s/st. Fe oxides. | 640 | 2660 | " | |
| 493 | 20 | | " " " Yellow-br clay | 990 | 2350 | " | |
| 494 | | | Dark graphitic w'd s/st. minor qtz veins | 1600 | 3980 | " | |
| 495 | 25 | | " brown + grey soft w'd s/st. | 800 | 2530 | " | |
| 496 | | | Brown, grey s/st - Y-br clays. | 530 | 1900 | " | |
| 497 | | | Dark graphitic w'd s/st; Fe oxides on fracts. | 450 | 2060 | " | |
| 498 | 30 | | Dk grey, pink + multicoloured. Minor qtz veins | 570 | 1590 | " | |
| 499 | | | Dk grey graphitic + red-br w'd siltst. Fe Oxides. | 450 | 1550 | " | |
| 646500 | 35 | | " " " " | 540 | 1940 | " | |
| 501 | | | Dark grey - mid grey graphitic w'd siltstone. | 470 | 1480 | " | |
| 502 | | | " " " " | 670 | 1230 | " | |
| 503 | 40 | | Mostly light-mid grey micac. weath'd s/st. | 530 | 1130 | " | |
| 504 | | | Well weathered graphitic siltstone. | 800 | 1350 | " | |
| 505 | 45 | | Dk grey + coloured " " Fe Oxides after py | 490 | 1500 | 4 | |
| 506 | | | Similar - rather sandy. " " | 340 | 1130 | <1 | |
| 507 | | | First wet sample. w'd sandy + graph. s/st. 7-8% qtz | 190 | 670 | " | |
| 508 | 50 | | Similar. Pyritic. Minor gal. veins with minor gal | 230 | 720 | " | |
| 509 | | | Similar. Pyritic. Some arenaceous. | 280 | 660 | " | |
| 646510 | 55 | | Graphitic pyritic s/st. Minor " , few qtz v. | 110 | 1290 | " | |
| | | | Similar. Minor galena in minor qtz veins. | 300 | 5150 | " | |
| | | | " " " " | | | | |
| | | | Dk grey graphitic and mid-grey s/sandy pyr. s/st. | | | | |
| | | | Same. Some up-hole contam. | | | | |
| | | | Black - dk grey graphitic s/st. 1-2% Py. | | | | |
| | | | Same. 2% qtz veins. | | | | |
| | | | Same. Much weath'd material - contam. | | | | |
| | | | Same. " " | | | | |
| | | | Dk grey - black pyritic s/st. Big chunks - cave in | | | | |

Notes

Target Extension of mineralization found in WBP1 Logged by PGS

Rig Warman 1000 Driller A. Sauffs / GADEN Hole diam. 5½" Dates 17-19 July '93.

Prospect WHITE BOMB EL7366
Co-ordinates 6530·5E 5047·8N
RL 87·8m
Direction 27·5° Angle -55°

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No. WBP4**



| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| 646511 | | | Same as last : Black-grey py. graph slst. | | | | |
| 512 | | | " " " " | 430 | 890 | <1 | |
| 513 | 60 | | Dark grey to black pyritic graphitic slst. | 350 | 370 | " | |
| 514 | | | Same - 3-4% py. | 240 | 1020 | " | |
| 515 | 65 | | Same. Hard, not weathered. Minor sphalerite. | 220 | 970 | " | |
| 516 | | | Hard blackish pyr. siltstone. Minor diss. galena | 680 | 430 | " | |
| 517 | | | " " " " | 1760 | 690 | " | |
| 518 | 70 | | Similar. Also some f.gr. sandy text. slst. | 2150 | 1940 | 2 | |
| 519 | | | Hard blackish pyr. slst, " " Trace gal. | 2400 | 1210 | 3 | 60 |
| 646520 | 75 | | " " " " , slatey. Micaceous. | 2480 | 820 | 3 | 70 |
| 521 | | | " " " " " " | 900 | 540 | 2 | <50 |
| 522 | | | Hard blackish slst. Pyrite, graph. Minor qtz v. No " " | 590 | 330 | <1 | " |
| 523 | 80 | | " " " " 2-3% py. " " | 940 | 380 | " | " |
| 524 | | | " " " " " " Trace galena in qtz chips | 210 | 90 | " | " |
| 525 | 85 | | Hard black pyr. graph. slst. | 250 | 145 | " | " |
| 526 | | | " " " " " , slatey. | 2020 | 890 | " | " |
| 527 | | | " " " " Some slatey to schistose. | 2990 | 220 | " | " |
| 528 | 90 | | " " " " " " with 10% v fgr arenaceous. | 880 | 140 | " | " |
| 529 | | | " " " " No gal or sphal seen | 500 | 32 | " | " |
| 646530 | 95 | | " " " " 10% pyrite. | 850 | 145 | " | " |
| 531 | | | 60% pale green-grey pyritic arenaceous slst. | 9470 | 3050 | 1 | 370 |
| 532 | | | Mostly " " chloritic py " " | 5050 | 320 | <1 | 110 |
| 533 | 100 | | 70% whitish f.gr silty-sstn. (Rest py'ic, fgr. slst | 4780 | 250 | " | 110 |
| 534 | | | 50% " " " " greenish + white clay | 2560 | 200 | " | 80 |
| 535 | 105 | | Pale white/green alt'd sstn. Minor py. | 1590 | 230 | " | 50 |
| 536 | | | " " " " Weak chlorite alt'n | 2040 | 520 | " | 110 |
| 646537 | | | Pale white to green to dark green chloritic arenite. | 1530 | 230 | " | 100 |
| | 110 | | Dolerite - chloritic + pyritic (1-2%) + sericitic. | 4350 | 1200 | " | 170 |
| | | | " " 1% white qtz or $CO_3$ veins, Tr gal. (No gal.) | | | | |
| | | | " " alt'd : 1-2% pyrite. | | | | |
| | | | " " " " | | | | |
| | | | " " " " | | | | |
| | | | " " " 3% pyrite. | | | | |
| | | | " " " " | | | | |
| | | | " " " " | | | | |
| | | | Dolerite. Darker green than above. 2% py | | | | |
| | | | " " " " " | | | | |
| | | | " " " " " | | | | |
| | | | " " " " " | | | | |
| | | | " " " " " | | | | |
| | | | " " " " 1% py | | | | |
| | | | " Carbonate alt'n. Galena (trace). Minor pyrite | | | | |
| | | | " " | | | | |

Pyritic carbonaceous siltstone

Chloritic dolerite

Notes

Target Extension of mineralization found in WBP1 Logged by PGS

Rig Warman 1000-3 Driller A. Sauffs / GADEN Hole diam. 5½" Dates 17-19 July 1993

Prospect WHITE BOMB EL7366
Co-ordinates 6530·5E 5047·8N
RL 87·8m
Direction 27·5° Angle -55°

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No. WBP4**



| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| 646538 | | | Chloritic Dolerite. minor pyrite. Dark green | 3380 | 980 | <1 | 120 |
| 539 | | | " " | | | | |
| | | | " " Few creamy carbonate | 2390 | 900 | " | 140 |
| 646540 | 115 | | " " veins. | | | | |
| | | | " Traces sphal., minor " veins. | 5020 | 1310 | 2 | 100 |
| 541 | | | " Minor pyrite | | | | |
| | | | " " | | | | |
| 542 | | | " Minor Carb veins - dark green. | 2860 | 690 | <1 | 70 |
| | | | " Carb veins, minor pyrite | | | | |
| 543 | 120 | | " , dark green. No pyrite. | 5720 | 880 | " | 170 |
| | | | " " " 1% white veins. | | | | |
| 544 | | | " minor pyrite. | 5040 | 970 | 2 | 110 |
| | | | " " , trace galena. | 4360 | 1640 | 2 | 100 |
| 545 | 125 | | " " 1% white qtz? v. | | | | |
| | | | " " 5% white qtz - | 2790 | 520 | 2 | 80 |
| 546 | | | " " also minor carb v. | | | | |
| | | | " Minor qtz and carbonate veins | 2650 | 370 | <1 | 100 |
| 547 | | | " Minor " " " + py. | | | | |
| | | | " " " " | 1780 | 200 | " | 70 |
| 548 | 130 | | " with few dk grey S/St chips - contam | 2310 | 155 | " | 90 |
| | | | " minor pyrite. few veins. ? | | | | |
| 549 | | | " | | | | |
| | | | " minor qtz veins, py. S/St. Contam. | 950 | 150 | " | 70 |
| 646550 | 135 | | " " " " am.? | 610 | 100 | " | 90 |
| | | | " " " " " | | | | |
| 551 | | | " " " " " | 1300 | 165 | " | 120 |
| | | | " " " " " | | | | |
| 552 | | | " Minor milky qtz, trace galena. | 5040 | 990 | " | 110 |
| | | | " minor pyrite. | | | | |
| 553 | 140 | | " " | | | | |
| | | | " 1-2% py, 1-2% qtz veins. | 1250 | 145 | " | 130 |
| | | S/St. | Dolerite + v fgr sed.. Trace chalcopyrite. Py. Tr. gal. | | | | |
| 646554 | | | F-gr. pale sandy S/St, minor black S/St. Tr py. | 230 | 38 | " | <50 |
| | 144 | | Mostly black graph. py S/St, with minor pale sed. | | | | |

End of hole at 144 m.

Resting water level down hole was 12·0m below ground surface, on 20/7/93

Notes

Target Extension of mineralization found in WBP1 Logged by PGS

Rig Warman 1000-3 Driller A. Saffas / GADEN Hole diam. 5½" Dates 17-19/7/93

Prospect WHITE BOMB EL7366
Co-ordinates 6524·5E
RL 86·3m 5035·5N
Direction 347°m Angle -60°

# GIANTS REEF MINING N.L.

## RC PERCUSSION DRILL LOG

**Hole No. WBD 5**



| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| 646555 | | | Weath'd silst; red-br, buff, orange, other colours + clay. | 1060 | 2210 | <1 | 190 |
| 556 | | | " " " " | | | | |
| 557 | 5 | | " " " " | 520 | 2050 | " | 100 |
| 558 | | | Same; Grey, dark red. | 1350 | 1410 | " | <50 |
| 559 | | | Same. Also light grey + dk grey. | 1600 | 2020 | " | <50 |
| 646560 | 10 | | Same. w'd silst; grey, red, buff, green. | 340 | 1560 | " | <50 |
| 561 | | | Darker w'd silst. Mostly dark grey and dark red-br | 220 | 1040 | " | <50 |
| 562 | 15 | | Multicoloured w'd silst., v. weath'd | 250 | 1690 | " | <50 |
| 563 | | | Mod. w'd. Mostly grey, red + pink. | 290 | 2260 | " | " |
| 564 | | | Graphitic w'd silst. FeOx on surfaces - after py? | 420 | 1480 | " | " |
| 565 | 20 | | Some boxworks after S" | 440 | 1690 | 4 | " |
| 566 | | | Mostly dark grey graphitic siltstone. | 1420 | 1970 | 5 | 140 |
| 567 | 25 | | Grey + br w'd graphitic silst. 10-20% goeth/limon | 1300 | 2530 | <1 | 60 |
| 568 | | | Similar. Brown. Formerly probably v. pyritic. | 330 | 1550 | " | <50 |
| 569 | | | Grey; light + dark; also brown (w'd.) Some pyrite | 580 | 1020 | " | " |
| 646570 | 30 | | Grey + br graph. silst. 5% ferruginous chips. | 1100 | 2040 | " | 50 |
| 571 | | | " " " partly weath'd silst | 2180 | 1·42% | 8 | 140 |
| 572 | 35 | | Same. Some limonite after S" on fracts. | 1200 | 7100 | <1 | 70 |
| 573 | | | Fine gr. brown. w'd sstn., some limonite or goss. | 890 | 3490 | " | 50 |
| 574 | | | Poor recov. Most f.gr. sandstone as above. Py | 650 | 4370 | " | <50 |
| 575 | 40 | | Same. Some qtz veins. | 330 | 3690 | " | " |
| 576 | | | Dark grey + br. w'd silst., some goss or FeOx chips | 850 | 4740 | " | " |
| 577 | 45 | | w'd f.gr. sstn + silst., minor py in sstn. " " | 960 | 4410 | " | " |
| 578 | | | Dark grey hard silst. Some w'd chips - contam. | 2640 | 3410 | " | " |
| 579 | | | Same, with minor py. | 2400 | 2870 | " | " |
| 646580 | 50 | | " " " " and up hole contam. | 710 | 700 | " | " |
| 581 | | | Dk grey pyritic + graphitic silst. Spotted-porph'blasts | 730 | 1990 | " | " |
| 646582 | 55 | | Gossan chips - prob. contam. Chunks. | 1160 | 1580 | " | 60 |
| | | | Dk grey silst. Minor py. Some weath'd contam | 2870 | 1080 | " | <50 |
| | | | " " " " " " " | | | | |
| | | | " " " " " " " | | | | |
| | | | Same. Minor galena on w'd pyritic qtz chunk. | | | | |
| | | | Same. Large chunks (2-3cm) with dissem. gal. | | | | |
| | | | Same. Minor qtz/pyrite veins. | | | | |
| | | | " " " | | | | |
| | | | Same. Dark grey graph/py silst. | | | | |
| | | | " " " | | | | |
| | | | " " " | | | | |
| | | | " " " | | | | |
| | | | " " " | | | | |
| | | | " " " | | | | |

Pyritic and graphitic siltstone.

Notes

Target Downward extension of mineralisation in hole WBP1 Logged by PGS

Rig Warman 1000 Driller A. Sauffs / GADEN Hole diam. 5½" Dates 20-21/7/93

Prospect WHITE BOMB EL 7366
Co-ordinates 6524·5E
RL 86·3m 5035·5N
Direction 347°M Angle -60°

GIANTS REEF MINING N.L.

# RC PERCUSSION DRILL LOG

**Hole No. WBD5**



| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| 646583 | | | Dk grey pyritic/graphitic s/st. | | | | |
| 584 | | | Same. Also some rel. coarse gr. black s/st. Py. | 2780 | 2760 | <1 | 60 |
| | | | Similar. Minor c.gr sphal and fine gal on fr's. | | | | |
| | | | Blackish coarse gr s/st. 2-3% py. | 1760 | 2910 | " | 60 |
| 585 | 60 | | " " and f.gr s/st. 2-3% py. | | | | |
| | | | " to dk grey rel. coarse gr pyritic s/st. | 1870 | 560 | " | <50 |
| 586 | | | Same " " " " | | | | |
| | | | Mid grey f.gr. arenaceous and f.gr. pyritic s/st. | 860 | 210 | " | " |
| 587 | | | " " " " " (black). | | | | |
| | 65 | | Mostly rather coarse gr. pyritic s/st. | 630 | 240 | " | " |
| 588 | | | " " " | | | | |
| | | | Similar. Silicified? | 1270 | 1440 | " | 110 |
| 589 | | | 50% dk grey, 50% pale, arenaceous s/st. Minor py. | | | | |
| | | | Similar. Several % pyrite | 850 | 240 | " | <50 |
| 646590 | 70 | | Dk grey f.gr pyritic siltstone. | | | | |
| | | | " " " " | 440 | 430 | " | " |
| 591 | | | Same. Several % pyrite. Dk grey - blackish | | | | |
| | | | " " " " | 1200 | 890 | " | " |
| 592 | 75 | | " " " " | | | | |
| | | | " " " " | 300 | 320 | " | " |
| 593 | | | " " " " | | | | |
| | | | " " " " | 320 | 185 | " | " |
| 594 | | | Similar. Some could be greywack or dolerite | | | | |
| | | | Similar. Dk grey to black silic'd? graph+py s/st. | 580 | 530 | " | " |
| 595 | 80 | | " " " " | | | | |
| | | | " " " " (½% pyrite) | 610 | 290 | " | " |
| 596 | | | Dk graph/py s/st + 50% green-grey pyritic s/st. | | | | |
| | | | Similar. Plus few % contamination. | 530 | 220 | " | " |
| 597 | 85 | | Same. " " " | | | | |
| | | | Same. | 450 | 290 | " | " |
| 598 | | | Same. Occasional f.gr. galena on fracts. | | | | |
| | | | " Trace gal. and sphal: contam? | 390 | 180 | " | " |
| 599 | | | Similar. " " " | | | | |
| | | | Same. Minor sphal, tr. gal. on some fracts. | 3100 | 790 | " | 60 |
| 646600 | 90 | | Dk grey to black pyritic/graphitic s/st. | | | | |
| | | | Same 1-2% pyritic. Minor contam. | 3220 | 570 | " | 90 |
| 601 | | | Same " " Trace sphal. | | | | |
| | | | Same. V minor gal. + sphal in qtz vein lets. | 1770 | 470 | " | 50 |
| 602 | 95 | | Same rock - no mineralization seen. | | | | |
| | | | " " " " | 960 | 470 | " | 110 |
| 603 | | | Same black-grey py/graph s/st. Trace sphal + gal | | | | |
| | | | " " " (1-3% py) " " | 2400 | 570 | 2 | 90 |
| 604 | | | Same " " " " | | | | |
| | | | " " " " | 420 | 390 | <1 | 60 |
| 605 | 100 | | Same. Black-grey pyritic/graph s/st. 6-8% white qtz | | | | |
| | 102 | | " " " slaty. 5% py 1% " " | 360 | 390 | <1 | 100 |
| | | | End of percussion precollar at 102m. Then NQ to end of hole at 212·5m | | | | |

Pyritic and graphitic siltstone

Notes

Target Downward extension of mineralization in WBP1 Logged by PGS

Rig Warman 1000-3 Driller A. Sauffs / GADEN Hole diam. 5½" Dates 20-21/7/93

Prospect/Project WHITE BOMB PROSPECT
EL 7366 N.T.

Collar co-ords. 6524.5 E
5035.5 N

RL 86.3 m

Angle -60° Direction 347° M

**GIANTS REEF MINING N.L.**

**DIAMOND DRILL HOLE LOG**

**Hole No. WBD5**



| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| | | | | • 0–102 m = R.C. Percussion precollar. | 646555 –646605 | See percussion log. | | | |
| 102 | 102.7 | 0.7 | 0.7 | • 102–109 m: Dark grey to light grey banded pyritic and graphitic Siltstone. Bedding angles fairly constant at 50°–54° to core axis (CA) | 102.0–104.25 646636 | 470 | 330 | 3 | 10 |
| 102.7 | 104.25 | 1.55 | 1.55 | Blacker bands show sparse whitish flecks of secondary (metam.) min; ~1 mm; semi acicular. Some graded beds, but original grain size | 104.25m – 107.3m 646637 | 2210 | 450 | 3 | 10 |
| 104.25 | 105.05 | 0.80 | 0.80 | may be obscured by metamorph'm. Individual laminae and beds from 1–2mm to 0.2 m thick. Pyrite replacement or partial replacement | 107.3–108.9 646638 | 2300 | 70 | 2 | 9 |
| 105.05 | 107.30 | 2.25 | 2.25 | of selected beds, generally the paler and rel. coarser layers, up to 1cm wide. Sparse narrow qtz veining and qtz-pyrite veins: 1 to 5 such veins per | 108.9–110.3 646639 | 4500 | 590 | 2 | 10 |
| 107.3 | 110.3 | 3.0 | 3.0 | m, mostly at 20°–45° to core axis, often with open spaces. Width 1–3mm. Occasional minor sphalerite in these veins, e.g. 106.5m. | 110 –112.25 646640 | 3390 | 180 | 2 | 25 |
| 110.3 | 113.4 | 3.1 | 3.1 | Minor galena at 108.9m. 3–4 natural breaks/metre; half of these along bedding planes; others cross-cutting. Frac. surfaces | 112.25–113.4 646641 | 155 | 16 | <1 | 3 |
| 113.4 | 116.5 | 3.1 | 3.1 | often have loose graphitic pyritic and quartz coatings. Last 3m of section showing increasing sericitic and ? siliceous alteration in more numerous paler laminated beds. | 113.4–114.85 646642 | 630 | 200 | 2 | 10 |
| | | | | • 109–114.25 m: Alteration zone in siltstone. Banded and laminated silicified and chloritic light grey to green-grey meta-Siltstone. Bedding 50°–53 to CA, often wavery. Shows sparse | | | | |

Core sizes All NQ Rig type Warman 1000 Drillers GADEN: A. Sauffs. Date commenced 20/7/93 Completed 27/7/93 Logged by P.G.S.

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| | | | | development of sub-acicular creamy white secondary mineral. | 114·85 - 116·5 646643 | 1000 | 51 | 2 | 76 |
| | | | | 108·9 - 110 m : Mainly broad (to 30 cm) bands of former greywacke or tuff, incl. some patches of f.gr. dissem. sphal. and (more) pyrite. | 116·5 - 119·6 646644 | 1350 | 230 | 2 | 105 |
| | | | | 110 - 112·3 m : Banded/laminated alt'd siltstone. | 119·6 - 122·7 646645 | 420 | 50 | 2 | 30 |
| | | | | 110.4 :- Brown sphal. in narrow qtz vein. | 122·7 - 125·7 646646 | 1380 | 42 | 2 | 145 |
| | | | | 112·25 - 112.4 m : Crushed, soft, bleached - selvedge to large quartz veins. 112.4 - 113·4 : Barren white glassy quartz vein. Minor pyrite + carbonate in holes + cracks. last 30cm v. broken. | 125·7 - 128·7 646647 | 6010 | 100 | 3 | 195 |
| | | | | 113·4 - 114·25 m : Pale grey-green alt'd laminated S/St. Beds ~50° to CA. Pyritic. | 128·7 - 131·7 646648 | 3510 | 770 | 3 | 145 |
| 116·5 | 119·6 | 3·1 | 3·1 | • 114·25 - 148·7 m : Altered dolerite. Chloritic and carbonate-altered sericitic and pyritic mid-grey to dark green dolerite. Original texture partly obscured by alteration. | 131·7 - 134·7 646649 | 830 | 125 | 2 | 160 |
| 119·6 | 122·7 | 3·1 | 3·1 | 114·25 - 115·7 m : Fine grained margin to ? sill. | 134·7 - 137·7 646650 | 340 | 52 | 2 | 150 |
| 122·7 | 125·7 | 3·0 | 3·0 | 115·7 - 123 m : Relatively coarser grained, but orig. grains replaced by chlorite, sericite etc. 5 to 6 natural breaks/m, with soft clayey and chloritic + pyritic coatings. Unbroken | 137·7 - 140·7 646651 | 195 | 32 | 3 | 110 |
| 125·7 | 128·7 | 3·0 | " | | 140·7 - 143·7 646652 | 135 | 32 | 2 | 150 |
| 128·7 | 131·7 | " | " | | | | | | |
| 131·7 | 134·7 | " | " | | | | | | |
| 134·7 | 137·7 | " | " | core sticks to 0·4 m. Pyrite :- 2-4%. Much of this length | | | | | |
| 137·7 | 140·7 | " | " | is soft, with softest mineral aggregates washed out by drilling. | | | | | |
| 140·7 | 143·7 | " | " | 123 - 129·4 m : Porous-looking, from many surface pits 1-3mm | | | | | |
| 143·7 | 146·7 | " | " | from which soft alteration minerals have been washed away. | | | | | |

Notes

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Rare qtz veins; some with central creamy carbonate growth in middle. | | | | | |
| | | | | 125.7 – 126.2 m – 0.5m long stick of core. | | | | | |
| | | | | 129.4 – 130.8 m – Broken zone; carbonate veining, core in chips down to 10mm size. Partly healed breccia. Trace galena. | | | | | |
| | | | | 130.8 – 133 m: Moderately broken up zone. 10-16 fracts/m. | | | | | |
| | | | | 133 – 148.7: Alt'd dolerite, fine qtz veins 3-6/m, mostly <2mm wide; at various angles. Nat. fracts 4-5/m, but with unbroken sticks of core up to 0.8 and 1.0 metres. | | | | | |
| | | | | 135.8 – 1cm soft carbonate/pyrite vein at 30° CA. | | | | | |
| | | | | 140.6 m: Carbonate vein 1cm with open spaces and dusting of pyrite on x/s. 40° CA. | 143.7-146.7 646653 | 410 | 150 | 3 | 110 |
| 146.7 | 149.7 | 3.0 | 3.0 | 141.2m: Partly open 1cm Carbonate vein at 10° CA. | | | | | |
| 149.7 | 152.7 | 3.0 | 3.0 | 148.0-148.5m: last 0.5m is very f.gr. (near contact) | 146.7-148.5 646654 | 1590 | 510 | 3 | 240 |
| | | | | 148.5 – 150.3 m: Altered siltstone. Wavey banded and laminated pyritic, silicified and weakly chloritic. Green-grey colours. 149.3-149.7m: Some crushing. Disrupted banding healed along carbonate veins. The greenish (chloritic) alteration fades out by 150.3m. Pyrite present but no other S". Bedding at 60-70° to CA. Core breaks readily along bedding planes, but only 3 to 4 natural breaks/metre. | 148.5-150.3 646655 | 670 | 97 | 2 | 10 |

Notes

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| | | | | • 150·3 – 162·3m : Blackish to mid-grey banded and laminated | | | | | |
| 152·7 | 155·7 | 3·0 | 3·0 | pyritic and graphitic siltstone. | | | | | |
| 155·7 | 158·7 | 3·0 | " | 152 – 153·5m : Bedding at 50° to CA · Graphitic joint surfaces, | | | | | |
| 158·7 | 161·7 | 3·0 | " | mostly along bedding planes. | 150·3–153·4 | | | | |
| | | | | 153·6 – 154·4 · Crushed edges enclosing a central 40cm | 646656 | 1520 | 100 | 1 | 13 |
| 161·7 | 164·7 | 3·0 | " | quartz vein · Graphitic surfaces and included fragments. Pyrite | | | | | |
| 164·7 | 165·5 | 0·8 | 0·8 | in cracks in the quartz. | 153·4–154·4 | | | | |
| | | | | 154·4 – 157·7 : Pale grey f-gr sandy siltst. beds show | 646657 | 185 | 79 | <1 | 46 |
| 165·5 | 166·5 | 1·0 | 1·0 | intraformational fold eg 155·7–156·0m:  . After | | | | | |
| 166·5 | 167·7 | 1·2 | 1·2 | 156·0, beds at 50°-55° CA, with predominance of dark pyritic | 154·4–155·7 | | | | |
| | | | | and graphitic layers. Occasional narrow (few mm) beds | 646658 | 74 | 65 | " | 10 |
| 167·7 | 170·35 | 2·65 | 2·65 | wholly of (or replaced by) pyrite. Pyrite as spots, cubes and | | | | | |
| 170·35 | 173·35 | 3·0 | 3·0 | layers = 1% of rock. Sparse rambling pyrite/qtz/carbonate | 155·7–158·7 | | | | |
| | | | | veins, few mm wide; 1–2/m. Some are microfaults with 1–2 | 646659 | 110 | 59 | 2 | 10 |
| | | | | cm displacements. 162·0m: Open carbonate vein, 2mm; 5° to CA. | 158·7–161·7 | | | | |
| | | | | • 162·3m – 170·7m : Fault zone in graphitic siltstone. | 646660 | 360 | 110 | 2 | 10 |
| | | | | Very crushed and graphitic, esp. 162·3–162·8m. Core very | 161·7–164·5 | | | | |
| | | | | broken, with polished graphite on curved and slick'd surfaces. | 646661 | 4150 | 740 | 2 | 73 |
| | | | | Minor white calcite veins, 2–3mm, with cavities. Some sticks | 164·5–166·5 | | | | |
| | | | | of core to 15cm long, but easily broken along graphitic | 646662 | 6940 | 1300 | 3 | 77 |
| | | | | beds or fr's. Patches of v. fine to 1–2mm carbonate veins, | 166·5–167·7m | | | | |
| | | | | wispy and rambling. 165·5m: minor sphal + galena in veinlet | 646663 | 2000 | 430 | 2 | 13 |

Notes

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| | | | | • 170·7 – 174·7m: Light grey and dark grey alternating banded graphitic and pyritic slst. Blacker bands are more graphitic, finer grained. 6–8 natural fr's/m, | 167·7 – 170·35 646664 | 1180 | 350 | 2 | 43 |
| 173·35 | 176·45 | 3·1 | 3·1 | | | | | | |
| 176·45 | 179·55 | 3·1 | 3·1 | mostly along bedding plains, which are at 50°–60° to CA. | 170·35 – 173·35 646665 | 950 | 135 | 1 | 24 |
| 179·55 | 182·65 | 3·1 | 3·1 | Beds disturbed – angles vary. Patches of fine white carbonate veins to 2mm thick cut the beds. Minor | 173·35 – 176·45 646666 | 460 | 63 | <1 | 9 |
| 182·65 | 185·70 | 3·05 | 3·05 | galena in partly open veins at 174·7 m. | | | | | |
| | | | | • 174·7 – 187·6 m: Banded to laminated dark grey and | 176·45 – 179·55 646667 | 620 | 89 | 1 | 33 |
| 185·70 | 188·70 | 3·0 | 3·0 | light grey (rel. coarse gr) pyritic and graphitic siltstone. | | | | | |
| | | | | Beds show some wavering, but generally at constant angles of | 179·55 – 182·65 646668 | 210 | 78 | 1 | 42 |
| 188·7 | 190·0 | 1·3 | 1·2 | 50°–55° to Core Axis. 1–5 natural fr's/m. Breaks easily along | | | | | |
| | | | | the darker more graphitic bedding planes. Wispy calcite veinlets | 182·65 – 185·70 646669 | 160 | 72 | <1 | 27 |
| | | | | with some pyrite at various angles but mostly square to | | | | | |
| | | | | bedding; up to 2mm wide. Pyrite several % of rock, | 185·7 – 188·7 646670 | 130 | 65 | <1 | 27 |
| | | | | in spotty concentrations; often with large cube recrystall'd | | | | | |
| | | | | into finer grains. | | | | | |
| | | | | • 187·6 – 190·1m: Broken and crushed pyritic + graphitic | 188·7 – 191·7 646671 | 125 | 44 | <1 | 39 |
| | | | | siltstone. 187·6–188·6 has about 10 fracts/m, then more | | | | | |
| | | | | crushed and broken. Soft, graphitic; slickensided surfaces, | | | | | |
| | | | | esp. 189·2 – 190·1m. Only core loss noted here: 10cm lost in run 188·7 to | | | | | |
| | | | | 190·0m. | | | | | |

Notes

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| | | | | • 190·1 – 212·5m: Banded to laminated pyritic & graphitic siltstone. | | | | | |
| 190·0 | 191·7 | 1·7 | 1·7 | Similar to previous intervals (eg 174·7–187·6m). Darker | | | | | |
| 191·7 | 193·0 | 1·3 | 1·3 | grey to black intervals predominant over lighter grey bands. | | | | | |
| | | | | Bedding angles 50°–60° CA, mostly nearer 50°. Pyrite | 191·7–194·7 | | | | |
| 193·0 | 194·7 | 1·7 | 1·7 | bands replace some beds. Pyrite and py/calcite veins | 646672 | 155 | 43 | <1 | 38 |
| | | | | and veinlets at irregular intervals. Lighter grey | 194·7–197·7 | | | | |
| 194·7 | 197·7 | 3·0 | 3·0 | (rel. coarse grained beds) tend to have pyrite clots and | 646673 | 105 | 28 | " | 44 |
| | | | | cube shapes, recrystallised as finer pyrite crystals. | 197·7–200·7 | | | | |
| 197·7 | 200·7 | 3·0 | 3·0 | | 646674 | 115 | 59 | " | 53 |
| | | | | | 200·7–203·7 | | | | |
| 200·7 | 203·7 | 3·0 | 3·0 | END of HOLE at 212·5 metres. | 646675 | 350 | 41 | " | 45 |
| | | | | | 203·7–206·7 | | | | |
| 203·7 | 206·7 | 3·0 | 3·0 | Downhole camera survey readings: | 646676 | 280 | 41 | " | 42 |
| 206·7 | 209·5 | 2·8 | 3·0 | 0m 347°m −60° (compass + clino at collar) | | | | | |
| | | | | 103m 354°m −59·5° (1m outside steel casing | | | | | |
| | | | | 151m 351·5°m −59·0° ∴ suspect. | 206·7–209·5 | | | | |
| 209·5 | 212·5 | 3·0 | 3·0 | 193m 352°m −57·5° | 646677 | 110 | 35 | " | 16 |
| | | | | 211m 353°m −56° | | | | | |
| | | | | | 209·5–212·5 | | | | |
| | | | | | 646678 | 86 | 43 | " | 48 |

Notes HQ casing to 102m. Retrieved with difficulty.

Prospect WHITE BOMB

Co-ordinates 6444·8E
RL 90·5m 5061·0N

Direction 25°M Angle -64·5°

GIANTS REEF MINING N.L.

# RC PERCUSSION DRILL LOG

**Hole No.** WBD6

Page 1 of 2

| sample | Depth (m) | Visual log | Description | Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| | | | | Analyses (ppm) | | | |
| 646606 | | | Red-br, or + pink v.w'd slst; light red-br clays. | 250 | 340 | <1 | <50 |
| 607 | | | w'd coarse gr and f.gr slst; Grey, fawn, buff, red-br. | 390 | 300 | " | " |
| 608 | 5 | | Weath'd slst: light grey, grey + pink. | 280 | 650 | " | " |
| 609 | | | " " Dark br, red-br, buff + pink. Dark grey + pink weath'd slst. | 250 | 1420 | " | " |
| 646610 | | | Dk grey + pink. Graphite. Some limonite ? goss. chips. | 165 | 2120 | " | " |
| 611 | 10 | | Dk grey (graphitic) and dark red-br w'd slst. | 360 | 2380 | " | " |
| 612 | | | " " " " " | 190 | 2890 | " | " |
| 613 | 15 | | " " " " " incl. Fe ox (ex py?) micaceous. | 300 | 3440 | " | " |
| 614 | | | Dk grey + dk red-br siltstone: also coarse gr slst. Same; graphitic, incl. ? gossanous chips after S". | 290 | 3330 | " | " |
| 615 | | | " " " " " Same - more graphitic, less Fe Ox chips. | 165 | 2500 | " | " |
| 616 | 20 | | Similar. V.f.gr graph. to pale grey fine sandy slst. Fe Ox. Mid-grey to black + dk red-br w'd slst. | 320 | 2450 | " | " |
| 617 | | | Same - more weath'd chips - contam. ? Mod. w'd coarse slst + f.gr. graphitic slst. | 430 | 2730 | " | " |
| 618 | 25 | | Similar. Mostly fine sandy slst; less black graph. Same. Minor limonite after pyrite. | 1610 | 2900 | " | " |
| 619 | | | Same. Several % limonite " " or sulphides. | 1590 | 5600 | " | " |
| 646620 | | | Weathered graphitic slst. Several % limonite after S" | 1990 | 7360 | " | " |
| 621 | 30 | | Same. Minor qtz veins. Mod to well weath'd. | 1680 | 5830 | 2 | " |
| 622 | | | " " " " " " " " with trace pyrite. Limonitic chips after S" Mid grey - dk grey graphitic mod. w'd slst. | 1300 | 8070 | 2 | " |
| 623 | 35 | | Well w'd slst, mostly fine sandy text. Py; limonite. Same | 860 | 5060 | <1 | " |
| 624 | | | Dk grey + red-brown w'd graphitic slst, few % limonite. Same. Minor gossanous qtz veins, and " " | 1540 | 1·03 % | 2 | " |
| 625 | | | Mostly fine sandy texture slst. Minor pyr. weath'd. Dark grey w'd coarse + fine slst. Minor qtz veins, Fe Ox | 1180 | 1·69 % | 3 | " |
| 626 | 40 | | Same " " " " " Same; minor gossanous chips. | 830 | 6330 | 28 | 70 |
| 627 | | | Grey and coloured weath'd slst. 20% qtz veins. Similar. Driller reports a fault. " " " | 1550 | 8·38 % | 210 | 390 |
| 628 | 45 | | Gap - open space. 10% qtz veins Driller says faulted + fracts. Slst, + 70% qtz + carb. V | 1570 | 13·5 % | 135 | 330 |
| 629 | | | Hard dark grey pyr. + graph. slst. Weath'd (contam?) Dark grey graph. slst, 20% weath'd incl. goss. ( " ?) | 2500 | 1·39 % | 71 | <50 |
| 646630 | | | " " " " " " " graph/py slst., Minor qtz v. with galena + sph. | 7850 | 2·36 % | 99 | 180 |
| 631 | 50 | | Same. Some weath. contam (incl. ? gossan chips) Dk grey graph/py slst. Sphal + galena in minor qtz v. | 2130 | 2·08 % | 115 | 110 |
| 632 | | | Same. Quartz veins ~ 5%. Also w'd contam. " " " | 1790 | 9560 | 49 | <50 |
| 646633 | 55 | | Dk grey graph/py slst. Chlor. on fracts. Minor gal + sph " " (Also w'd contam.) in qtz veins. | 1020 | 1·26 % | 61 | <50 |

Pyritic and graphitic Siltstone

Notes

Target

Logged by PGS

Rig Warman 1000 Driller A. Sauffs / GADEN Hole diam. 5½" Dates 28-29 July 1993

Prospect WHITE BOMB EL7366
Co-ordinates 6444·8E 5061·0N
RL 90·5
Direction 25°M Angle -64·5°

GIANTS REEF MINING N.L.

# RC PERCUSSION DRILL LOG

**Hole No.** WBD6

Page 2 of 2.

| sample | Depth (m) | Visual log | Description | Analyses (ppm) Zn | Pb | Ag | As |
|---|---|---|---|---|---|---|---|
| 646634 | | Py-grey sist. | Dark grey pyritic s/st, chloritic frac. surfaces, 10-15% weathered contamination, traces galena + sphalerite. Uncertain whether this is in situ or contam. from up the hole. | 910 | 1·44 % | 90 | 110 |
| 635 | 60 | | | 360 | 5860 | 23 | 70 |
| | | | End of percussion precollar at 60m. Then NQ core to end of hole at 250 m. | | | | |

Notes

Target

Logged by PGS

Rig Warman 1000 Driller A. Sauffs / Goden Hole diam. 5½" Dates 28-29 July 1993

Prospect/Project WHITE BOMB PROSPECT
EL 7366 NT

Collar co-ords. 6444.8 E
5061.0 N

RL 90.5 m

Angle -64.5° Direction 025°M

**GIANTS REEF MINING N.L.**

**DIAMOND DRILL HOLE LOG**

**Hole No. WBD6**



| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 646606 -646635 | See Percussion 409. | | | |
| 60.0 | 60.6 | 0.6 | 0.6 | 0 – 60m = RC Percussion precollar. | | | | | |
| 60.6 | 63.0 | 2.4 | 2.4 | • 60m – 93.0m : Mid-grey to dark grey pyritic and mod. graphitic | 60–63.0m 646679 | 1070 | 49 | <1 | 11 |
| 63.0 | 66.0 | 3.0 | 3.0 | Siltstone. Paler grey bands tend to be wider and coarser grained. | | | | | |
| 66.0 | 69.0 | 3.0 | 3.0 | Greywacke texture in these: (altered) lithic grains to 1mm. Some | 63–66.0 646680 | 380 | 71 | " | 8 |
| 69.0 | 72.0 | " | " | graded bedding, but metamorphism has obscured original grain size. | | | | | |
| 72.0 | 75.0 | " | " | Darker bands are finer grained, more graphitic. Rock has | 66–69.0 646681 | 670 | 78 | " | 19 |
| 75.0 | 78.0 | " | " | several % pyrite, mostly as spots and aggregates but also | | | | | |
| 78.0 | 81.0 | " | " | in bands following or replacing selected thin (few mm) bands. | 69.0–72.0 646682 | 410 | 22 | " | 18 |
| 81.0 | 83.7 | 2.7 | 2.7 | Rare qtz ± calcite veinlets. Core generally solid, and | 72.0–75.0 646683 | 330 | 26 | " | 16 |
| 83.7 | 86.8 | 3.1 | 3.1 | was recovered in sticks often over 1m long. Natural fracts. | | | | | |
| 86.7 | 90.0 | 3.3 | 3.3 | 2–3 per m., to ~78m; then 3–4 per m. to 93m. Angles | 75.0–78.0 646684 | 650 | 71 | " | 27 |
| 90.0 | 93.0 | 3.0 | 3.0 | of fracts. variable, betw. 10°–70° to core axis (CA). Fracture | | | | | |
| | | | | surfaces lightly crusted with carbonate ± pyrite; occas. with graphite | 78.0–81.0 646685 | 210 | 130 | " | 18 |
| | | | | Bedding shows some waviness and also intra formational | | | | | |
| | | | | small folding (eg around 73m) but generally angle is | 81.0–83.7 646686 | 990 | 57 | " | 14 |
| | | | | 55°–65° to CA. 60–61m – Broken; crushed. | | | | | |
| | | | | 89.5–91.5 : mid grey ?rhyolite or | 83.7–86.8 646687 | 350 | 17 | " | 14 |
| | | | | ?andesite rock : various irreg. shapes of clasts spotted through | | | | | |
| | | | | f.gr. siliceous grey matrix. Porous appearance – clasts washed out | 86.8–90.0 646688 | 540 | 72 | " | 17 |

Core sizes Rig type Warman 1000 Drillers GADEN / A. Sauffs. Date commenced 28/7/93 Completed 5/8/93 Logged by P.G.S.

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| 93·0 | 96·0 | 3·0 | 3·0 | • 93 – 117m : Dark grey to black graphitic & pyritic siltstone: | 90·0 – 93·0 646689 | 300 | 14 | <1 | 14 |
| 96· | 99·0 | 3·0 | " | Laminated and more narrowly banded than previous section | 93·0 – 96·0 646690 | 790 | 24 | " | 29 |
| 99 | 102 | 3·0 | " | Individual bands mostly <1 cm wide. Fine gr. to very f. gr. | 96·0 – 99·0 646691 | 650 | 61 | " | 67 |
| 102· | 105 | 3·0 | " | Bedding angles generally 55°–60° to CA. Rock probably | 99·0 – 102·0 646692 | 630 | 51 | " | 44 |
| 105 | 108 | 3·0 | " | contains 4–6% pyrite. More of the paler (rel. coarse) | 102·0 – 105·0 646693 | 580 | 23 | " | 48 |
| 108 | 111 | 3·0 | " | bands in last few m, to 117m. 1 to 2 natural breaks | 105·0 – 108·0 646694 | 340 | 18 | " | 41 |
| 111· | 114 | 3·0 | " | per m. Core generally solid – long sticks had to be | 108 – 111·0 646695 | 210 | 17 | " | 54 |
| 114· | 117 | 3·0 | " | broken up to fit trays. Joints and fractures | 111·0 – 114·0 646696 | 230 | 35 | " | 62 |
| | | | | mostly across bedding planes, at 10°–45° to CA. Not | 114 – 117·0 646697 | 155 | 20 | " | 25 |
| | | | | many of these: 0·5 to 1 per m. | 117·0 – 120·0 646698 | 185 | 17 | " | 20 |
| | | | | • 117 – 121 m: Altered sediment at margin of dolerite dyke. | 120·0 – 123·0 646699 | 380 | 150 | " | 95 |
| | | | | Altered to mid grey and pale to dark greenish grey. Silicified, | | | | | |
| | | | | pale green sericite; some chlorite alt'n. Bedding angles | | | | | |
| 117 | 119·65 | 2·65 | 2·65 | as above (55°–60° CA) but often wavy. | | | | | |
| 119·65 | 120·0 | 0·35 | 0·35 | 117·2 – 117·9 m: Coarse gr. bed with sprinkling of fine | | | | | |
| | | | | <1mm acicular metamorphic minerals: tuff or horn fels? | | | | | |
| | | | | 120·3m: 1cm qtz vein at 20° CA. | | | | | |
| | | | | 120·5m: 3cm band showing sprinkling of pale | | | | | |
| | | | | creamy white metam. mineral. | | | | | |
| | | | | 121 – Contact is vague (merging) with dolerite | | | | | |
| | | | | in next interval. | | | | | |

Notes

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| 120 | 121.45 | 1.45 | 1.45 | • 121.0m – 154.75m: Altered dolerite sill. Greeny grey | 123.0–126m 646700 | 165 | 22 | <1 | 86 |
| 121.45 | 123.0 | 1.55 | 1.55 | altered dolerite, composed of chlorite, sericite, carbonate, | 126 – 129.0 646701 | 155 | 6 | " | 62 |
| 123.0 | 126.0 | 3.0 | 3.0 | black non magnetic f-gr. opaques; brown mica and | | | | | |
| 126.0 | 129.0 | " | " | sericite, f-gr quartz and dissem. pyrite. First and | 129 – 132.0 646702 | 160 | 12 | " | 180 |
| 129.0 | 132.0 | " | " | last metre intervals at margin are fine grained (chilled | | | | | |
| 132.0 | 135.0 | " | " | margins). Coarsest texture 133–140m. Largely re- | 132.0–135.0 646703 | 160 | 8 | " | 180 |
| 135.0 | 138.0 | " | " | constituted. Has densely mottled and flecked appearance, | | | | | |
| 138.0 | 141.0 | " | " | with pale grey and greenish-cream aggregates of sericite | | | | | |
| 141.0 | 144.0 | " | " | /chlorite/carbonate in darker (more ?chloritic) matrix. | 135.0–138.0 646704 | 145 | 7 | " | 180 |
| 144.0 | 147.0 | " | " | Does not respond to swinging magnet. Sparsely calcite | | | | | |
| 147.0 | 150.0 | " | " | veined, increase of veins with depth. Mostly " veins | 138.0–141.0 646705 | 91 | 5 | " | 200 |
| 150.0 | 153.0 | " | " | are 3–4 per m, few mm to 1cm thick, mostly at ~60°CA | | | | | |
| 153.0 | 156.0 | " | " | 124m: 4cm thick cockscomb struct'd qtz/calcite vein, | 141.0–144.0 646706 | 195 | <4 | " | 165 |
| | | | | with minor pyrite at 60°CA. | | | | | |
| | | | | 124 – 125.3m: Porous appearance. | 144.0–147.0 646707 | 155 | <4 | " | 155 |
| | | | | 138.4m: Large calcite vein, 2.5cm thick at 63°CA | | | | | |
| | | | | 149m: Rambling qtz/carbonate vein at 3°CA. Minor py | 147.0–150.0 646708 | 185 | 12 | " | 145 |
| | | | | 152.5m: Group of splayed quartz/carbonate veins. | | | | | |
| | | | | Whole interval shows very few natural breaks – sticks of | 150.0–153.0 646709 | 230 | 29 | " | 150 |
| | | | | core frequently +1m. Pyrite/chlorite/carbonate coatings | | | | | |
| | | | | on fractures/joints. No clear contact with alt'd | | | | | |
| | | | | sediment below. | 153.0–156.0 646710 | 650 | 180 | " | 50 |

Notes

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| 156·0 | 159·0 | 3·0 | 3·0 | • 154·75m – 158m. Hornfelsed altered siltstone. Grey + greenish colours. Chlorite/sericite/silicic alteration. Banding and laminations up to 1cm thick, at 50-55° CA, with some layers wavy and disrupted. Calcite veinlets, 6 to 10 per m, 1 – 4mm thick & containing minor pyrite, cutting across bedding sometimes with few mm displacements. Few soft, pale greenish beds up to few cm thick: tuffs? (156m, 156·7, 157m) Pyrite and chlorite and calcite on joints: 2-3 of these per m. The greenish colour fades into grey at 158m (arbitrary boundary) | 156·0-159·0 646711 | 99 | 19 | <1 | 24 |
| | | | | | 159-162·0 646712 | 80 | 12 | " | 28 |
| | | | | | 162·0-165·0 646713 | 125 | 21 | " | 38 |
| | | | | | 165·0-168·0 646714 | 105 | 26 | " | 47 |
| | | | | • 158 – 164m: Light grey, fine gr. sandy siltstone. Laminated and banded. 70% of bands are light grey " " ; with | 168-171·0 646715 | 110 | 24 | " | 42 |
| 159·0 | 162·0 | 3·0 | 3·0 | dark to mid grey f·gr; graphitic s/st. Bedding wavy or | 171-174·0 646716 | 120 | 24 | " | 36 |
| 162·0 | 165·0 | 3·0 | 3·0 | contorted on scale of few cm. – prob. intraformational slumping. Some pyrite replacement of selected laminae. | | | | | |
| | | | | Bedding angles fairly constant at 60-65° CA. Few ragged + thin (few mm) calcite veins – graphite and | 174-177·0 646717 | 95 | 27 | " | 40 |
| | | | | calcite on some healed joints with few cm displacement. | 177-180·0 646718 | 135 | 29 | " | 42 |
| | | | | Very graphitic groups of joints at 159·8m and 163·0m. Few only open fractures, but breaks easily on graphitic beds and partings. 164m = arbitrary division. | 180-183·0 646719 | 140 | 35 | " | 42 |
| | | | | • 164m – 191·85m: Mid-dark grey-blackish pyritic and graphitic siltstone. Medium grained to f·gr, becoming gradually | 183·0-186·0 646720 | 130 | 35 | " | 37 |

Notes CORE ORIENTATION BY SPEAR METHOD AT 165m: Bedding here is 58° to core axis, dipping "down hole". ∴ Actual dip is 62°, to 208° Magnetic.

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| 165·0 | 168·0 | 3·0 | 3·0 | more graphite-rich. Pyrite spottings, often in clusters. Py | 186-189·0 646721 | 135 | 26 | <1 | 38 |
| 168·0 | 171·0 | " | " | also replaces selected bedding laminations (few mm thick), | | | | | |
| 171·0 | 174·0 | " | " | and is est. to be ~4% of rock volume. Bedding is | 189·0-191·9 646722 | 240 | 35 | " | 67 |
| 174·0 | 177·0 | " | " | 50°-60° to Core Axis. Paler (= rel. coarser-fine sand | 191·9-195·0 646723 | 115 | 31 | " | 59 |
| 177·0 | 180·0 | " | " | texture) beds show graded sequences in places, but somewhat | | | | | |
| 180·0 | 183·0 | " | " | obscured by metamorphic effects. Examples at 171·6m and | 195-198·0 646724 | 120 | 44 | " | 59 |
| 183·0 | 186·0 | " | " | 175·6m indicate that the sequence is the right way up. | | | | | |
| 186·0 | 189·0 | " | " | Few open fracts; 1-2/m, but core breaks readily on | 198-201·0 646725 | 135 | 31 | " | 39 |
| 189·0 | 191·9 | 2·9 | 2·9 | graphitic laminae. Minor calcite/pyrite veinlets: 1-2/m. | | | | | |
| 191·9 | 194·3 | 2·4 | 2·3 | 189·5-189·8m: local graphitic cleavage effects, interfering | 201-204·0 646726 | 165 | 54 | " | 69 |
| 194·3 | 195·0 | 0·7 | 0·7 | with bedding at near-parallel angle. | | | | | |
| 195·0 | 198·0 | 3·0 | 3·0 | • 191·85m-193·5m: Fault. Crushed and polished | 204-207·0 646727 | 145 | 29 | " | 52 |
| 198·0 | 201·0 | 3·0 | 3·0 | graphitic siltstone. Largest core piece 5·5cm. Curved | | | | | |
| 201·0 | 204·0 | " | " | and slickensided fragments, down to small flakes (1cm) | 207-210·0 646728 | 170 | 34 | " | 47 |
| 204·0 | 207·0 | " | " | • 193·5m - 230m: Dark grey to black graphitic & pyritic | | | | | |
| 207·0 | 210·0 | " | " | siltstone with several faulted/crushed intervals, as follows: | 210-213·0 646729 | | | | |
| | | | | 193·63 - 196m | | | | | |
| 210·0 | 211·5 | 1·5 | 1·5 | 198·0 - 198·2m | 213-216·0 646730 | | | | |
| 211·5 | 213·0 | 1·5 | 1·5 | 209·7 - 214·5m | | | | | |
| 213·0 | 216·0 | 3·0 | 3·0 | 215·5m - 215·8m. | 216-219·0 646731 | | | | |
| 216·0 | 219·0 | 3·0 | " | Bedding angles 55°-65° to core axis. Wispy thin calcite veins | | | | | |
| 219·0 | 222·0 | 3·0 | " | in and around the above faulted/broken intervals. | 219-222·0 646732 | | | | |

Notes

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| 222·0 | 225·0 | 3·0 | 3·0 | Intermittent cleavage developed in the most graphitic layers, | 222–225·0 646733 | 105 | 17 | <1 | 40 |
| 222·5 | 228·0 | " | " | parallel and sub-para. to bedding. Pyrite follows some | | | | | |
| 228·0 | 231·0 | " | " | thin beds – also in spotty aggregates. Core largely unbroken | 225·0–228 646734 | 145 | 37 | " | 73 |
| 231·0 | 234·0 | " | " | (except in the above-mentioned intervals), but is easily broken | | | | | |
| 234·0 | 237·0 | " | " | along graphitic bedding planes. Such fresh breaks often slickensided. | 228–231·0 646735 | 100 | 33 | " | 100 |
| 237·0 | 240·0 | " | " | 201·5 – 202·5 m: ragged 3 cm thick calcite vein | | | | | |
| 240·0 | 243·0 | " | " | follows core axis. Minor pyrite, slickensided edges. | 231–234·0 646736 | 82 | 30 | " | 92 |
| 243·0 | 246·0 | " | " | Beddings planar. Paler, coarser (greywacke | | | | | |
| 246·0 | 249·0 | " | " | texture) beds at 207·2 m – 207·9 m, | 234–235·6 646737 | 93 | 23 | " | 39 |
| 249·0 | 250·0 | 1·0 | 1·0 | 216·5 – 216·75 m, | | | | | |
| | | | | 219·3 – 219·6 m. Large white | | | | | |
| | | | | quartz vein & minor pyrite clots at 224·1 – 224·25 m. | 235·6–237·8 646738 | 800 | 12 | " | 32 |
| | | | | • 230 – 232·8 m: Fault. Broken, blocky to flakey | | | | | |
| | | | | graphitic siltstone pieces, max. size 10 cm. Pyrite | 237·8–240·0 646739 | 150 | 21 | " | 46 |
| | | | | blobs and wispy calcite veining. | | | | | |
| | | | | • 232·8 – 235·6 m. Black f.gr. graphitic/pyritic | | | | | |
| | | | | slst./mudstone. 15% f.gr pale grey sandy-text'd | 240–243·0 646740 | 155 | 20 | " | 44 |
| | | | | slst beds, in groups. Often partially replaced by or | | | | | |
| | | | | assoc'd with small pyrite accumulations. Polished | | | | | |
| | | | | graphite on joints. | | | | | |

Notes

| Drill runs (m) From | To | Length | Core recov. | Description | Sample intervals & numbers | Analyses (ppm) Zn | Pb | Ag | Cu |
|---|---|---|---|---|---|---|---|---|---|
| | | | | • 235.6 – 237.8 m : Altered dolerite dyke or sill. Fine gr, sericitic + chloritic. Pyrite concentrations (several %) at its upper and lower contacts. 3cm wide qtz vein with pyrite runs most of this length. | 243 – 246.0 646741 | 135 | 18 | <1 | 43 |
| | | | | • 237.8 m – 250m : Black + dark grey very graphitic + pyritic slst, with several crushed zones, from 238.9m – 244.3m. Much crushing + slickensides. Healed breccia in graphitic slst at 241.6m. | 246.0 – 248.0 646742 | 125 | 36 | " | 64 |
| | | | | 240.9 – 241.3m – large white quartz vein. | 248 – 250.0 646743 | 94 | 17 | " | 51 |
| | | | | 244.3 – 249 m : – Frequent polished joints + fracts. | | | | | |
| | | | | 249.0 – 249.6 m – very broken. | | | | | |
| | | | | Bedding planes 55° – 60° to core axis. | | | | | |
| | | | | END of HOLE at 250m. | | | | | |
| | | | | DOWNHOLE CAMERA SURVEY READINGS: | | | | | |
| | | | | 0m 025° M –64.5° (Compass + clino at collar) | | | | | |
| | | | | 62m ~ –64° (only 1m outside HQ casing, so azimuth unreliable). | | | | | |
| | | | | 98m 028° M –62.5° | | | | | |
| | | | | 142m 028° M –60° | | | | | |
| | | | | 196m 026.5° M –58.5° | | | | | |
| | | | | 248m 027° M – 56.5° | | | | | |

Notes

# APPENDIX 3

## WHITE BOMB PROSPECT DRILLING ASSAY RESULTS

amdel

R16/7/93

21 Marjorie Street, Berrimah, Northern Territory
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Telephone: (089) 322 637 Facsimile: (089) 323 531

Mr. N. Byrne
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0564 |
| Samples Received | : 09/07/93 | Results Reported | : 13/07/93 |
| Number of Samples | : 22 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL7366
White Bomb
WBP1 0-44m

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0564
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag |
|---|---|---|---|---|
| 646228 | 50 | 3630 | 1640 | <1 |
| 646229 | 54 | 2840 | 1960 | <1 |
| 646230 | 45 | 1580 | 650 | <1 |
| 646231 | 41 | 2330 | 660 | <1 |
| 646232 | 59 | 2610 | 1010 | <1 |
| 646233 | 47 | 2430 | 470 | <1 |
| 646234 | 47 | 2300 | 730 | <1 |
| 646235 | 49 | 2560 | 1110 | <1 |
| 646236 | 49 | 2500 | 1140 | <1 |
| 646237 | 44 | 2980 | 1270 | <1 |
| 646238 | 76 | 3000 | 2000 | 16 |
| 646239 | 36 | 1800 | 520 | <1 |
| 646240 | 44 | 1330 | 210 | <1 |
| 646241 | 37 | 1250 | 270 | <1 |
| 646242 | 49 | 1610 | 370 | <1 |
| 646243 | 37 | 1110 | 165 | <1 |
| 646244 | 78 | 1250 | 620 | <1 |
| 646245 | 48 | 1640 | 170 | <1 |
| 646246 | 40 | 2760 | 185 | <1 |
| 646247 | 58 | 2540 | 600 | <1 |
| 646248 | 49 | 2710 | 320 | <1 |
| 646249 | 51 | 1630 | 93 | 10 |

EL7366

White Bomb

WBP1 0-44m

| UNITS | ppm | ppm | ppm | ppm |
|---|---|---|---|---|
| DET.LIM | 2 | 4 | 2 | 1 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 |

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R16/7/93

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Mr. N. Byrne
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0566 |
| Samples Received | : 10/07/93 | Results Reported | : 13/07/93 |
| Number of Samples | : 26 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL7366
White Bomb
WBP1 44 – 96m

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0566
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag |
|---|---|---|---|---|
| 646250 | 49 | 2480 | 370 | 5 |
| 646251 | 63 | 2940 | 1340 | <1 |
| 646252 | 58 | 3140 | 880 | <1 |
| 646253 | 34 | 1290 | 340 | <1 |
| 646254 | 42 | 2160 | 500 | <1 |
| 646255 | 45 | 910 | 230 | <1 |
| 646256 | 70 | 1540 | 460 | <1 |
| 646257 | 50 | 390 | 175 | <1 |
| 646258 | 37 | 390 | 220 | <1 |
| 646259 | 43 | 260 | 350 | <1 |
| 646260 | 31 | 95 | 440 | <1 |
| 646261 | 49 | 670 | 350 | <1 |
| 646262 | 31 | 84 | 430 | <1 |
| 646263 | 35 | 330 | 1010 | <1 |
| 646264 | 30 | 180 | 620 | <1 |
| 646265 | 37 | 175 | 380 | <1 |
| 646266 | 59 | 120 | 790 | <1 |
| 646267 | 100 | 580 | 360 | <1 |
| 646268 | 63 | 300 | 340 | <1 |
| 646269 | 85 | 310 | 270 | <1 |
| 646270 | 86 | 620 | 2320 | <1 |
| 646271 | 69 | 480 | 1490 | <1 |
| 646272 | 87 | 650 | 3230 | <1 |
| 646273 | 42 | 550 | 1780 | <1 |
| 646274 | 105 | 1490 | 3300 | <1 |
| 646275 | 135 | 950 | 2590 | 7 |

EL7366
White Bomb
WBP-1 44 -96m

| UNITS | ppm | ppm | ppm | ppm |
|---|---|---|---|---|
| DET.LIM | 2 | 4 | 2 | 1 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 |

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R16/7/93

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WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0575 |
| Samples Received | : 13/07/93 | Results Reported | : 14/07/93 |
| Number of Samples | : 28 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366

White Bomb

WBP1 - 96-126m

amdel

Job: 3DN0575
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag | As | Au | AuDp1 |
|---|---|---|---|---|---|---|---|
| 646276 | 30 | 700 | 2910 | <1 | <50 | <0.01 | -- |
| 646277 | 63 | 1210 | 3460 | <1 | <50 | <0.01 | -- |
| 646278 | 64 | 2130 | 5970 | <1 | <50 | <0.01 | -- |
| 646279 | 37 | 1.43% | 3870 | 4 | <50 | <0.01 | -- |
| 646280 | 115 | 3070 | 6620 | 4 | 130 | <0.01 | -- |
| 646281 | 44 | 1350 | 3100 | 2 | 110 | <0.01 | <0.01 |
| 646282 | 1610 | 1090 | 5.74% | 10 | <50 | <0.01 | -- |
| 646283 | 270 | 1650 | 1.16% | 2 | 90 | <0.01 | -- |
| 646284 | 260 | 1.34% | 1.57% | 5 | 130 | <0.01 | -- |
| 646285 | 560 | 8500 | 5.94% | 7 | 80 | <0.01 | -- |
| 646286 | 770 | 1.13% | 12.4% | 10 | 70 | <0.01 | -- |
| 646287 | 105 | 1240 | 7010 | <1 | 60 | <0.01 | -- |
| 646288 | 36 | 1160 | 4730 | 2 | 90 | <0.01 | -- |
| 646289 | 810 | 4890 | 9.50% | 10 | 190 | <0.01 | <0.01 |
| 646290 | 70 | 1030 | 6780 | <1 | 120 | <0.01 | -- |
| 646291 | 36 | 940 | 3520 | <1 | 90 | <0.01 | -- |
| 646292 | 98 | 2000 | 1.18% | 3 | 100 | <0.01 | -- |
| 646293 | 640 | 9800 | 13.6% | 45 | 210 | <0.01 | -- |
| 646294 | 290 | 2850 | 7.04% | 19 | 90 | <0.01 | -- |
| 646295 | 2720 | 1.23% | 24.3% | 120 | 160 | <0.01 | -- |
| 646296 | 1350 | 5.26% | 13.4% | 54 | 430 | <0.01 | -- |
| 646297 | 590 | 2.70% | 8.66% | 40 | 220 | <0.01 | -- |
| 646298 | 430 | 1.41% | 3.08% | 13 | 120 | <0.01 | -- |
| 646299 | 130 | 4760 | 4790 | 3 | 80 | <0.01 | -- |
| 646300 | 140 | 2490 | 2810 | 2 | 60 | <0.01 | -- |
| 646301 | 280 | 1.15% | 1.38% | 7 | 70 | <0.01 | -- |
| 646302 | 185 | 1300 | 4510 | 2 | 80 | <0.01 | -- |
| 646303 | 165 | 3270 | 4870 | 3 | 70 | <0.01 | -- |

EL7366

White Bomb

WBP-1 96-126m

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| DET.LIM | 2 | 4 | 2 | 1 | 50 | 0.01 | 0.01 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 | FA1 | FA1 |
| UPPER SCHEME | | AAS2 | AAS2C | | | | |

amdel

RW 7/93

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Mr. N. Byrne
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0576 |
| Samples Received | : 13/07/93 | Results Reported | : 14/07/93 |
| Number of Samples | : 18 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366
White Bomb
WBP1 96-146m (EOH)

amdel

Job: 3DN0576
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | As | Ag | Au | AuDp1 |
|---|---|---|---|---|---|---|---|
| 646304 | 200 | 2950 | 3960 | 120 | <1 | <0.01 | -- |
| 646305 | 140 | 640 | 1410 | 120 | <1 | <0.01 | -- |
| 646306 | 165 | 470 | 1780 | 130 | <1 | <0.01 | -- |
| 646307 | 110 | 460 | 3040 | 140 | <1 | <0.01 | -- |
| 646308 | 73 | 260 | 2540 | 130 | <1 | <0.01 | <0.01 |
| 646309 | 52 | 1990 | 1740 | 100 | <1 | <0.01 | -- |
| 646310 | 53 | 2110 | 3520 | 70 | <1 | <0.01 | -- |
| 646311 | 73 | 1280 | 3060 | 80 | <1 | <0.01 | -- |
| 646312 | 31 | 500 | 1390 | <50 | <1 | <0.01 | <0.01 |
| 646313 | 47 | 1470 | 3050 | 80 | <1 | <0.01 | -- |
| 646314 | 145 | 950 | 7690 | 290 | <1 | <0.01 | -- |
| 646315 | 59 | 680 | 2920 | 90 | <1 | <0.01 | -- |
| 646316 | 39 | 160 | 1090 | 80 | <1 | <0.01 | -- |
| 646317 | 39 | 160 | 370 | 90 | <1 | <0.01 | -- |
| 646318 | 46 | 115 | 320 | 110 | <1 | <0.01 | -- |
| 646319 | 51 | 130 | 290 | <50 | <1 | <0.01 | -- |
| 646320 | 145 | 650 | 620 | 130 | <1 | <0.01 | -- |
| 646321 | 155 | 550 | 360 | 240 | <1 | <0.01 | -- |

EL 7366

White Bomb

WBP1 96-144m (EOH)

| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|
| DET.LIM | 2 | 4 | 2 | 50 | 1 | 0.01 | 0.01 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 | FA1 | FA1 |

R27/7/93

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WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0583 |
| Samples Received | : 15/07/93 | Results Reported | : 20/07/93 |
| Number of Samples | : 75 | Report Pages | : 1 to 2 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366

White Bomb

WBP2 0 - 120m

amdel

Job: 3DN0583
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag | As |
|---|---|---|---|---|---|
| 646322 | 51 | 1110 | 480 | <1 | <50 |
| 646323 | 36 | 1060 | 270 | <1 | <50 |
| 646324 | 48 | 1480 | 290 | <1 | <50 |
| 646325 | 63 | 1980 | 380 | <1 | <50 |
| 646326 | 56 | 2620 | 470 | <1 | <50 |
| 646327 | 71 | 3330 | 400 | 2 | <50 |
| 646328 | 81 | 3030 | 610 | 5 | 70 |
| 646329 | 135 | 6880 | 1480 | 29 | 140 |
| 646330 | 180 | 1.97% | 1420 | 31 | 110 |
| 646331 | 220 | 1.25% | 1600 | 14 | 150 |
| 646332 | 280 | 9200 | 1460 | 7 | 160 |
| 646333 | 300 | 2.50% | 2610 | 8 | 170 |
| 646334 | 145 | 3550 | 880 | 6 | <50 |
| 646335 | 84 | 1190 | 500 | 5 | <50 |
| 646336 | 82 | 690 | 330 | 6 | <50 |
| 646337 | 82 | 340 | 110 | <1 | <50 |
| 646338 | 39 | 350 | 105 | <1 | <50 |
| 646339 | 54 | 370 | 16 | <1 | <50 |
| 646340 | 51 | 220 | 9 | <1 | <50 |
| 646341 | 36 | 96 | 67 | <1 | <50 |
| 646342 | 77 | 210 | 200 | <1 | <50 |
| 646343 | 41 | 125 | 195 | <1 | <50 |
| 646344 | 53 | 480 | 210 | 4 | <50 |
| 646345 | 41 | 270 | 350 | 2 | <50 |
| 646346 | 35 | 250 | 195 | 3 | <50 |
| 646347 | 45 | 240 | 430 | 2 | <50 |
| 646348 | 41 | 120 | 610 | <1 | <50 |
| 646349 | 38 | 220 | 230 | 3 | <50 |
| 646350 | 33 | 110 | 380 | <1 | <50 |
| 646351 | 37 | 74 | 340 | <1 | <50 |
| 646352 | 33 | 89 | 340 | 1 | <50 |
| 646353 | 30 | 55 | 310 | <1 | <50 |
| 646354 | 32 | 81 | 490 | <1 | <50 |
| 646355 | 33 | 45 | 430 | <1 | <50 |
| 646356 | 30 | 80 | 590 | <1 | <50 |
| 646357 | 38 | 135 | 530 | <1 | <50 |
| 646358 | 51 | 125 | 1550 | <1 | <50 |
| 646359 | 36 | 160 | 450 | 2 | <50 |
| 646360 | 48 | 125 | 170 | 1 | 60 |
| 646361 | 44 | 94 | 280 | <1 | <50 |
| 646362 | 73 | 160 | 280 | 1 | 60 |
| 646363 | 63 | 110 | 320 | 1 | <50 |
| 646364 | 55 | 105 | 310 | <1 | <50 |
| 646365 | 100 | 105 | 570 | 2 | <50 |
| 646366 | 125 | 88 | 850 | 2 | <50 |
| 646367 | 230 | 56 | 5970 | 2 | <50 |
| 646368 | 180 | 79 | 1740 | 1 | <50 |
| 646369 | 190 | 56 | 840 | 1 | <50 |
| 646370 | 74 | 58 | 530 | 1 | <50 |
| 646371 | 61 | 41 | 460 | 1 | <50 |
| UNITS | ppm | ppm | ppm | ppm | ppm |
| DET.LIM | 2 | 4 | 2 | 1 | 50 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 |
| UPPER SCHEME | | AAS2 | | | |

EL7366
White Bomb
WBP2 0-95m

amdel

Job: 3DN0583
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag | As |
|---|---|---|---|---|---|
| 646372 | 45 | 32 | 410 | <1 | <50 |
| 646373 | 37 | 13 | 460 | <1 | <50 |
| 646374 | 32 | 31 | 360 | <1 | <50 |
| 646375 | 67 | <4 | 670 | <1 | <50 |
| 646376 | 77 | 44 | 1050 | <1 | <50 |
| 646377 | 115 | 660 | 1110 | 1 | <50 |
| 646378 | 120 | 20 | 200 | <1 | 230 |
| 646379 | 170 | 38 | 280 | <1 | <50 |
| 646380 | 110 | 18 | 650 | <1 | <50 |
| 646381 | 115 | 6 | 610 | <1 | <50 |
| 646382 | 120 | <4 | 350 | <1 | <50 |
| 646383 | 155 | 4 | 440 | <1 | <50 |
| 646384 | 210 | <4 | 380 | <1 | <50 |
| 646385 | 180 | 5 | 260 | <1 | <50 |
| 646386 | 155 | <4 | 155 | 1 | <50 |
| 646387 | 130 | <4 | 160 | 1 | <50 |
| 646388 | 145 | <4 | 195 | <1 | <50 |
| 646389 | 160 | <4 | 170 | <1 | <50 |
| 646390 | 220 | <4 | 140 | <1 | <50 |
| 646391 | 190 | <4 | 170 | <1 | <50 |
| 646392 | 250 | <4 | 165 | <1 | <50 |
| 646393 | 240 | <4 | 130 | <1 | <50 |
| 646394 | 180 | <4 | 130 | <1 | <50 |
| 646395 | 115 | <4 | 130 | <1 | <50 |
| 646396 | 180 | 96 | 370 | <1 | <50 |

EL7366

White Bomb

95-120m (EOH)

| UNITS | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|
| DET.LIM | 2 | 4 | 2 | 1 | 50 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 |

amdel

R27/7/93

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Mr. N. Byrne
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0589 |
| Samples Received | : 16/07/93 | Results Reported | : 20/07/93 |
| Number of Samples | : 86 | Report Pages | : 1 to 2 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366

White Bomb

WBP3 0 - 96m (EOH)

amdel

Job: 3DN0589
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag | As |
|---|---|---|---|---|---|
| 646397 | 34 | 300 | 160 | <1 | <50 |
| 646398 | 36 | 460 | 150 | <1 | <50 |
| 646399 | 34 | 460 | 145 | <1 | <50 |
| 646400 | 46 | 1320 | 195 | <1 | <50 |
| 646401 | 45 | 1170 | 175 | <1 | <50 |
| 646402 | 31 | 920 | 125 | <1 | <50 |
| 646403 | 35 | 1740 | 140 | <1 | <50 |
| 646404 | 41 | 2640 | 260 | <1 | <50 |
| 646405 | 38 | 2610 | 210 | <1 | <50 |
| 646406 | 34 | 1830 | 165 | <1 | <50 |
| 646407-408 | 33 | 2430 | 120 | <1 | <50 |
| 646409-410 | 32 | 1690 | 105 | <1 | <50 |
| 646411-412 | 34 | 2170 | 130 | <1 | <50 |
| 646413-414 | 26 | 1110 | 145 | <1 | <50 |
| 646415-416 | 28 | 185 | 370 | <1 | <50 |
| 646417-418 | 45 | 160 | 190 | <1 | <50 |
| 646419-420 | 37 | 170 | 300 | <1 | <50 |
| 646421-422 | 61 | 420 | 260 | <1 | <50 |
| 646423-424 | 54 | 1090 | 310 | <1 | <50 |
| 646425-426 | 61 | 830 | 250 | <1 | <50 |
| 646427-428 | 61 | 460 | 310 | <1 | <50 |
| 646429-430 | 62 | 710 | 380 | <1 | <50 |
| 646431-432 | 92 | 840 | 680 | <1 | <50 |
| 646433-434 | 82 | 370 | 730 | <1 | <50 |
| 646435-436 | 89 | 290 | 390 | <1 | <50 |
| 646437-438 | 105 | 600 | 590 | <1 | 60 |
| 646439-440 | 75 | 240 | 660 | <1 | 70 |
| 646441-442 | 65 | 200 | 610 | <1 | <50 |
| 646443-444 | 28 | 290 | 2390 | <1 | <50 |
| 646445-446 | 55 | 1100 | 1810 | <1 | <50 |
| 646447-448 | 120 | 3180 | 3570 | 3 | <50 |
| 646449-450 | 95 | 4050 | 5890 | 4 | <50 |
| 646451-452 | 140 | 7400 | 1.90% | 8 | <50 |
| 646453-454 | 145 | 4560 | 7640 | 9 | <50 |
| 646455-456 | 140 | 4850 | 2400 | 26 | <50 |
| 646457-458 | 82 | 3720 | 1.60% | 15 | <50 |
| 646459-460 | 81 | 1.45% | 1.95% | 11 | <50 |
| 646461-462 | 79 | 1.76% | 5.12% | 10 | <50 |
| 646463-464 | 33 | 1520 | 6270 | <1 | <50 |
| 646465-466 | 48 | 1650 | 7760 | <1 | <50 |
| 646467-468 | 70 | 3200 | 8910 | 3 | <50 |
| 646469-470 | 115 | 2560 | 6410 | 2 | <50 |
| 646471-472 | 87 | 1560 | 5670 | <1 | <50 |
| 646473-474 | 53 | 850 | 1870 | <1 | <50 |
| 646475-476 | 93 | 1710 | 6020 | 1 | <50 |
| 646477-478 | 78 | 1230 | 7810 | <1 | <50 |
| 646479-480 | 85 | 2720 | 9940 | 4 | <50 |
| 646481-482 | 36 | 960 | 2970 | <1 | <50 |
| UNITS | ppm | ppm | ppm | ppm | ppm |
| DET.LIM | 2 | 4 | 2 | 1 | 50 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 |
| UPPER SCHEME | | AAS2 | AAS2C | | |

EL7366

White Bomb

WBP3

0 - 96m (EOH)

amdel

R27/7/93

21 Marjorie Street, Berrimah, Northern Territory
Postal Address : P.O. Box 58, Berrimah, N.T. 0828
Telephone: (089) 322 637 Facsimile: (089) 323 531

Mr. N. Byrne
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0593 |
| Samples Received | : 19/07/93 | Results Reported | : 21/07/93 |
| Number of Samples | : 35 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366

White Bomb

WBP4 0-70m

amdel

Job: 3DN0593
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag |
|---|---|---|---|---|
| 646483 | 56 | 1630 | 340 | <1 |
| 646484 | 42 | 1530 | 230 | <1 |
| 646485 | 41 | 1920 | 230 | <1 |
| 646486 | 41 | 3460 | 270 | <1 |
| 646487 | 52 | 4450 | 310 | <1 |
| 646488 | 61 | 3110 | 470 | <1 |
| 646489 | 56 | 3210 | 480 | <1 |
| 646490 | 72 | 2600 | 800 | <1 |
| 646491 | 63 | 2660 | 640 | <1 |
| 646492 | 60 | 2350 | 990 | <1 |
| 646493 | 77 | 3980 | 1600 | <1 |
| 646494 | 43 | 2530 | 800 | <1 |
| 646495 | 36 | 1900 | 530 | <1 |
| 646496 | 47 | 2060 | 450 | <1 |
| 646497 | 61 | 1590 | 570 | <1 |
| 646498 | 51 | 1550 | 450 | <1 |
| 646499 | 57 | 1940 | 540 | <1 |
| 646500 | 77 | 1480 | 470 | <1 |
| 646501 | 61 | 1230 | 670 | <1 |
| 646502 | 76 | 1130 | 530 | <1 |
| 646503 | 310 | 1350 | 800 | <1 |
| 646504 | 580 | 1500 | 490 | 4 |
| 646505 | 130 | 1130 | 340 | <1 |
| 646506 | 350 | 670 | 190 | <1 |
| 646507 | 110 | 720 | 230 | <1 |
| 646508 | 72 | 660 | 280 | <1 |
| 646509 | 120 | 1290 | 110 | <1 |
| 646510 | 91 | 5150 | 300 | <1 |
| 646511 | 45 | 890 | 430 | <1 |
| 646512 | 32 | 370 | 350 | <1 |
| 646513 | 52 | 1020 | 240 | <1 |
| 646514 | 41 | 970 | 220 | <1 |
| 646515 | 44 | 430 | 680 | <1 |
| 646516 | 89 | 690 | 1760 | <1 |
| 646517 | 190 | 1940 | 2150 | 2 |

EL7366

White Bomb

WBP4 - 0-70m

| UNITS | ppm | ppm | ppm | ppm |
|---|---|---|---|---|
| DET.LIM | 2 | 4 | 2 | 1 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 |

R27/7/93

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Mr. N. Byrne
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0606 |
| Samples Received | : 20/07/93 | Results Reported | : 21/07/93 |
| Number of Samples | : 37 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366

White Bomb

WBP4: 70 - 144 m (EOH)

amdel

Job: 3DN0606
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag | As |
|---|---|---|---|---|---|
| 646518 | 190 | 1210 | 2400 | 3 | 60 |
| 646519 | 110 | 820 | 2480 | 3 | 70 |
| 646520 | 69 | 540 | 900 | 2 | <50 |
| 646521 | 79 | 330 | 590 | <1 | <50 |
| 646522 | 86 | 380 | 940 | <1 | <50 |
| 646523 | 48 | 90 | 210 | <1 | <50 |
| 646524 | 47 | 145 | 250 | <1 | <50 |
| 646525 | 125 | 890 | 2020 | <1 | <50 |
| 646526 | 71 | 220 | 2990 | <1 | <50 |
| 646527 | 66 | 140 | 880 | <1 | <50 |
| 646528 | 40 | 32 | 500 | <1 | <50 |
| 646529 | 68 | 145 | 850 | <1 | <50 |
| 646530 | 190 | 3050 | 9470 | 1 | 370 |
| 646531 | 170 | 320 | 5050 | <1 | 110 |
| 646532 | 180 | 250 | 4780 | <1 | 110 |
| 646533 | 200 | 200 | 2560 | <1 | 80 |
| 646534 | 240 | 230 | 1590 | <1 | 50 |
| 646535 | 270 | 520 | 2040 | <1 | 110 |
| 646536 | 220 | 230 | 1530 | <1 | 100 |
| 646537 | 210 | 1200 | 4350 | <1 | 170 |
| 646538 | 220 | 980 | 3380 | <1 | 120 |
| 646539 | 260 | 900 | 2390 | <1 | 140 |
| 646540 | 310 | 1310 | 5020 | 2 | 100 |
| 646541 | 260 | 690 | 2860 | <1 | 70 |
| 646542 | 380 | 880 | 5720 | <1 | 170 |
| 646543 | 450 | 970 | 5040 | 2 | 110 |
| 646544 | 530 | 1640 | 4360 | 2 | 100 |
| 646545 | 350 | 520 | 2790 | 2 | 80 |
| 646546 | 410 | 370 | 2650 | <1 | 100 |
| 646547 | 270 | 200 | 1780 | <1 | 70 |
| 646548 | 240 | 155 | 2310 | <1 | 90 |
| 646549 | 240 | 150 | 950 | <1 | 70 |
| 646550 | 260 | 100 | 610 | <1 | 90 |
| 646551 | 240 | 165 | 1300 | <1 | 120 |
| 646552 | 220 | 990 | 5040 | <1 | 110 |
| 646553 | 280 | 145 | 1250 | <1 | 130 |
| 646554 | 67 | 38 | 230 | <1 | <50 |

EL7366

White Bomb

WBP4 : 70 - 144m (EOH)

| UNITS | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|
| DET.LIM | 2 | 4 | 2 | 1 | 50 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 |

amdel

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Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0618 |
| Samples Received | : 22/07/93 | Results Reported | : 24/07/93 |
| Number of Samples | : 51 | Report Pages | : 1 to 2 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366
White Bomb
WBD5 precollar : 0 - 102m

amdel

Job: 3DN0618
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag | As |
|---|---|---|---|---|---|
| 646555 | 81 | 2210 | 1060 | <1 | 190 |
| 646556 | 43 | 2050 | 520 | <1 | 100 |
| 646557 | 43 | 1410 | 1350 | <1 | <50 |
| 646558 | 45 | 2020 | 1600 | <1 | <50 |
| 646559 | 37 | 1560 | 340 | <1 | <50 |
| 646560 | 25 | 1040 | 220 | <1 | <50 |
| 646561 | 33 | 1690 | 250 | <1 | <50 |
| 646562 | 42 | 2260 | 290 | <1 | <50 |
| 646563 | 44 | 1480 | 420 | <1 | <50 |
| 646564 | 33 | 1690 | 440 | 4 | <50 |
| 646565 | 45 | 1970 | 1420 | 5 | 140 |
| 646566 | 45 | 2530 | 1300 | <1 | 60 |
| 646567 | 16 | 1550 | 330 | <1 | <50 |
| 646568 | 11 | 1020 | 580 | <1 | <50 |
| 646569 | 33 | 2040 | 1100 | <1 | 50 |
| 646570 | 73 | 1.42% | 2180 | 8 | 140 |
| 646571 | 32 | 7100 | 1200 | <1 | 70 |
| 646572 | 27 | 3490 | 890 | <1 | 50 |
| 646573 | 26 | 4370 | 650 | <1 | <50 |
| 646574 | 23 | 3690 | 330 | <1 | <50 |
| 646575 | 48 | 4740 | 850 | <1 | <50 |
| 646576 | 43 | 4410 | 960 | <1 | <50 |
| 646577 | 155 | 3410 | 2640 | <1 | <50 |
| 646578 | 105 | 2870 | 2400 | <1 | <50 |
| 646579 | 46 | 700 | 710 | <1 | <50 |
| 646580 | 39 | 1990 | 730 | <1 | <50 |
| 646581 | 160 | 1580 | 1160 | <1 | 60 |
| 646582 | 50 | 1080 | 2870 | <1 | <50 |
| 646583 | 39 | 2760 | 2780 | <1 | 60 |
| 646584 | 28 | 2910 | 1760 | <1 | 60 |
| 646585 | 20 | 560 | 1870 | <1 | <50 |
| 646586 | 30 | 210 | 860 | <1 | <50 |
| 646587 | 14 | 240 | 630 | <1 | <50 |
| 646588 | 20 | 1440 | 1270 | <1 | 110 |
| 646589 | 26 | 240 | 850 | <1 | <50 |
| 646590 | 18 | 430 | 440 | <1 | <50 |
| 646591 | 42 | 890 | 1200 | <1 | <50 |
| 646592 | 18 | 320 | 300 | <1 | <50 |
| 646593 | 28 | 185 | 320 | <1 | <50 |
| 646594 | 28 | 530 | 580 | <1 | <50 |
| 646595 | 27 | 290 | 610 | <1 | <50 |
| 646596 | 16 | 220 | 530 | <1 | <50 |
| 646597 | 13 | 290 | 450 | <1 | <50 |
| 646598 | 12 | 180 | 390 | <1 | <50 |
| 646599 | 140 | 790 | 3100 | <1 | 60 |
| 646600 | 80 | 570 | 3220 | <1 | 90 |
| 646601 | 49 | 470 | 1770 | <1 | 50 |
| 646602 | 51 | 470 | 960 | <1 | 110 |
| 646603 | 77 | 570 | 2400 | 2 | 90 |
| 646604 | 25 | 390 | 420 | <1 | 60 |
| UNITS | ppm | ppm | ppm | ppm | ppm |
| DET.LIM | 2 | 4 | 2 | 1 | 50 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 |
| UPPER SCHEME | | AAS2 | | | |

EL7366
White Bomb
WBD5 precollar:
0 - 100m

amdel

Job: 3DN0618
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag | As |
|---|---|---|---|---|---|
| 646605 | 39 | 390 | 360 | <1 | 100 |

EL7366

White Bomb

WRD 5 precollar: 100-102m

| UNITS | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|
| DET.LIM | 2 | 4 | 2 | 1 | 50 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 |

amdel

R18/8/93

21 Marjorie Street, Berrimah, Northern Territory
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Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference :

Our Reference : 3DN0694

Samples Received : 12/08/93
Number of Samples : 43

Results Reported : 13/08/93
Report Pages : 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL 7366

White Bomb

½NQ Core WBD5 : 102 – 212.5m (EOH)

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0694
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag |
|---|---|---|---|---|
| 646636 | 10 | 330 | 470 | 3 |
| 646637 | 10 | 450 | 2210 | 3 |
| 646638 | 9 | 70 | 2300 | 2 |
| 646639 | 10 | 590 | 4500 | 2 |
| 646640 | 25 | 180 | 3390 | 2 |
| 646641 | 3 | 16 | 155 | <1 |
| 646642 | 10 | 200 | 630 | 2 |
| 646643 | 76 | 51 | 1000 | 2 |
| 646644 | 105 | 230 | 1350 | 2 |
| 646645 | 30 | 50 | 420 | 2 |
| 646646 | 145 | 42 | 1380 | 2 |
| 646647 | 195 | 100 | 6010 | 3 |
| 646648 | 145 | 770 | 3510 | 3 |
| 646649 | 160 | 125 | 830 | 2 |
| 646650 | 150 | 52 | 340 | 2 |
| 646651 | 110 | 32 | 195 | 3 |
| 646652 | 150 | 32 | 135 | 2 |
| 646653 | 110 | 150 | 410 | 3 |
| 646654 | 240 | 510 | 1590 | 3 |
| 646655 | 10 | 97 | 670 | 2 |
| 646656 | 13 | 100 | 1520 | 1 |
| 646657 | 46 | 79 | 185 | <1 |
| 646658 | 10 | 65 | 74 | <1 |
| 646659 | 10 | 59 | 110 | 2 |
| 646660 | 10 | 110 | 360 | 2 |
| 646661 | 73 | 740 | 4150 | 2 |
| 646662 | 77 | 1300 | 6940 | 3 |
| 646663 | 13 | 430 | 2000 | 2 |
| 646664 | 43 | 350 | 1180 | 2 |
| 646665 | 24 | 135 | 950 | 1 |
| 646666 | 9 | 63 | 460 | <1 |
| 646667 | 33 | 89 | 620 | 1 |
| 646668 | 42 | 78 | 210 | 1 |
| 646669 | 27 | 72 | 160 | <1 |
| 646670 | 27 | 65 | 130 | <1 |
| 646671 | 39 | 44 | 125 | <1 |
| 646672 | 38 | 43 | 155 | <1 |
| 646673 | 44 | 28 | 105 | <1 |
| 646674 | 53 | 59 | 115 | <1 |
| 646675 | 45 | 41 | 350 | <1 |
| 646676 | 42 | 41 | 280 | <1 |
| 646677 | 16 | 35 | 110 | <1 |
| 646678 | 48 | 43 | 86 | <1 |

EL7366

White Bomb

NQ ½core: WBD5 102-212.5m EOH

| | | | | |
|---|---|---|---|---|
| UNITS | ppm | ppm | ppm | ppm |
| DET.LIM | 2 | 4 | 2 | 1 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 |

amdel

R12/8/93

21 Marjorie Street, Berrimah, Northern Territory
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Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0644 |
| Samples Received | : 29/07/93 | Results Reported | : 04/08/93 |
| Number of Samples | : 30 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL7366

White Bomb

WBD6 precollar : 0-60m

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0644
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag | As |
|---|---|---|---|---|---|
| 646606 | 25 | 340 | 250 | <1 | <50 |
| 646607 | 32 | 300 | 390 | <1 | <50 |
| 646608 | 26 | 650 | 280 | <1 | <50 |
| 646609 | 27 | 1420 | 250 | <1 | <50 |
| 646610 | 26 | 2120 | 165 | <1 | <50 |
| 646611 | 46 | 2380 | 360 | <1 | <50 |
| 646612 | 16 | 2890 | 190 | <1 | <50 |
| 646613 | 59 | 3440 | 300 | <1 | <50 |
| 646614 | 33 | 3330 | 290 | <1 | <50 |
| 646615 | 24 | 2500 | 165 | <1 | <50 |
| 646616 | 26 | 2450 | 320 | <1 | <50 |
| 646617 | 25 | 2730 | 430 | <1 | <50 |
| 646618 | 20 | 2900 | 1610 | <1 | <50 |
| 646619 | 52 | 5600 | 1590 | <1 | <50 |
| 646620 | 41 | 7360 | 1990 | <1 | 80 |
| 646621 | 22 | 5830 | 1680 | 2 | <50 |
| 646622 | 39 | 8070 | 1300 | 2 | <50 |
| 646623 | 21 | 5060 | 860 | <1 | <50 |
| 646624 | 77 | 1.03% | 1540 | 2 | <50 |
| 646625 | 76 | 1.69% | 1180 | 3 | <50 |
| 646626 | 100 | 6330 | 830 | 28 | 70 |
| 646627 | 320 | 8.38% | 1550 | 210 | 390 |
| 646628 | 190 | 13.5% | 1570 | 135 | 330 |
| 646629 | 96 | 1.39% | 2500 | 71 | <50 |
| 646630 | 210 | 2.36% | 7850 | 99 | 180 |
| 646631 | 130 | 2.08% | 2130 | 115 | 110 |
| 646632 | 58 | 9560 | 1790 | 49 | <50 |
| 646633 | 68 | 1.26% | 1020 | 61 | <50 |
| 646634 | 97 | 1.44% | 910 | 90 | 110 |
| 646635 | 32 | 5860 | 360 | 23 | 70 |

EL7366

White Bomb

WBD6 precollar: 0 - 60m

| | | | | | |
|---|---|---|---|---|---|
| UNITS | ppm | ppm | ppm | ppm | ppm |
| DET.LIM | 2 | 4 | 2 | 1 | 50 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 |
| UPPER SCHEME | | AAS2 | | | |

amdel

K 30/8/93

21 Marjorie Street, Berrimah, Northern Territory
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Telephone: (089) 322 637 Facsimile: (089) 323 531

Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0723 |
| Samples Received | : 19/08/93 | Results Reported | : 24/08/93 |
| Number of Samples | : 65 | Report Pages | : 1 to 2 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL7366

White Bomb

½ NQ Core WBD6 : 60m - 250m (EOH)

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0723
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag |
|---|---|---|---|---|
| 646679 | 11 | 49 | 1070 | <1 |
| 646680 | 8 | 71 | 380 | <1 |
| 646681 | 19 | 78 | 670 | <1 |
| 646682 | 18 | 22 | 410 | <1 |
| 646683 | 16 | 26 | 330 | <1 |
| 646684 | 27 | 71 | 650 | <1 |
| 646685 | 18 | 130 | 210 | <1 |
| 646686 | 14 | 57 | 990 | <1 |
| 646687 | 14 | 17 | 350 | <1 |
| 646688 | 17 | 72 | 540 | <1 |
| 646689 | 14 | 14 | 300 | <1 |
| 646690 | 29 | 24 | 790 | <1 |
| 646691 | 67 | 61 | 650 | <1 |
| 646692 | 44 | 51 | 630 | <1 |
| 646693 | 48 | 23 | 580 | <1 |
| 646694 | 41 | 18 | 340 | <1 |
| 646695 | 54 | 17 | 210 | <1 |
| 646696 | 62 | 35 | 230 | <1 |
| 646697 | 25 | 20 | 155 | <1 |
| 646698 | 20 | 17 | 185 | <1 |
| 646699 | 95 | 150 | 380 | <1 |
| 646700 | 86 | 22 | 165 | <1 |
| 646701 | 62 | 6 | 155 | <1 |
| 646702 | 180 | 12 | 160 | <1 |
| 646703 | 180 | 8 | 160 | <1 |
| 646704 | 180 | 7 | 145 | <1 |
| 646705 | 200 | 5 | 91 | <1 |
| 646706 | 165 | <4 | 195 | <1 |
| 646707 | 155 | <4 | 155 | <1 |
| 646708 | 145 | 12 | 185 | <1 |
| 646709 | 150 | 29 | 230 | <1 |
| 646710 | 50 | 180 | 650 | <1 |
| 646711 | 24 | 19 | 99 | <1 |
| 646712 | 28 | 12 | 80 | <1 |
| 646713 | 38 | 21 | 125 | <1 |
| 646714 | 47 | 26 | 105 | <1 |
| 646715 | 42 | 24 | 110 | <1 |
| 646716 | 36 | 24 | 120 | <1 |
| 646717 | 40 | 27 | 95 | <1 |
| 646718 | 42 | 29 | 135 | <1 |
| 646719 | 42 | 35 | 140 | <1 |
| 646720 | 37 | 35 | 130 | <1 |
| 646721 | 38 | 26 | 135 | <1 |
| 646722 | 67 | 35 | 240 | <1 |
| 646723 | 59 | 31 | 115 | <1 |
| 646724 | 59 | 44 | 120 | <1 |
| 646725 | 39 | 31 | 135 | <1 |
| 646726 | 69 | 54 | 165 | <1 |
| 646727 | 52 | 29 | 145 | <1 |
| 646728 | 47 | 34 | 170 | <1 |
| UNITS | ppm | ppm | ppm | ppm |
| DET.LIM | 2 | 4 | 2 | 1 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 |

EL 7366

White Bomb

½NQ Core WBD6:
60m - 210m

amdel

Job: 3DN0723
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Ag |
|---|---|---|---|---|
| 646729 | 43 | 27 | 130 | <1 |
| 646730 | 41 | 30 | 110 | <1 |
| 646731 | 59 | 24 | 195 | <1 |
| 646732 | 38 | 18 | 110 | <1 |
| 646733 | 40 | 17 | 105 | <1 |
| 646734 | 73 | 37 | 145 | <1 |
| 646735 | 100 | 33 | 100 | <1 |
| 646736 | 92 | 30 | 82 | <1 |
| 646737 | 39 | 23 | 93 | <1 |
| 646738 | 32 | 12 | 800 | <1 |
| 646739 | 46 | 21 | 150 | <1 |
| 646740 | 44 | 20 | 155 | <1 |
| 646741 | 43 | 18 | 135 | <1 |
| 646742 | 64 | 36 | 125 | <1 |
| 646743 | 51 | 17 | 94 | <1 |

EL7366

White Bomb

½ NQ Core WRD6 : 210-250m (EOH)

| UNITS | ppm | ppm | ppm | ppm |
|---|---|---|---|---|
| DET.LIM | 2 | 4 | 2 | 1 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 |

R24/9/93

21 Marjorie Street, Berrimah, Northern Territory
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Telephone: (089) 322 637 Facsimile: (089) 323 531

Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference :

Our Reference : 3DN0755

Samples Received : 30/08/93
Number of Samples : 2

Results Reported : 15/09/93
Report Pages : 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366

WHITE BOMB : WBP1

117-118m ] Strongly
118-119m ] mineralised
section

amdel

Job: 3AD3110
O/N: 3DN0755

ANALYTICAL REPORT

| | | Sample 646075 | Sample 646076 | |
|---|---|---|---|---|
| Cu | ppm | 2850 | 1450 | MET1 |
| Pb | % | 17.3 | 5.60 | MET1 |
| Zn | % | 22.8 | 14.6 | MET1 |
| As | ppm | 200 | 600 | MET1 |
| Ag | ppm | 110 | 50 | MET1 |
| Cd | ppm | 740 | 480 | MET1 |
| Sb | ppm | 50 | 50 | MET1 |
| Bi | ppm | <50 | <50 | MET1 |
| Fe | % | 6.70 | 8.45 | MET1 |
| Au | ppb | 20 | 10 | FA3 |
| Pt | ppb | <5 | <5 | FA3 |
| Pd | ppb | <1 | <1 | FA3 |
| Al2O3 | % | 3.68 | 5.95 | IC4 |
| CaO | % | 0.31 | 5.90 | IC4 |
| K2O | ppm | 400 | 300 | IC4 |
| Mn | ppm | 550 | 1900 | IC4 |
| MgO | % | 3.06 | 8.00 | IC4 |
| Na2O | ppm | 200 | 100 | IC4 |
| SiO2 | % | 24.1 | 23.7 | IC4 |
| P2O5 | ppm | 1700 | 2900 | IC4 |
| TiO2 | % | 1.71 | 2.44 | IC4 |
| Ba | ppm | 25 | 15 | IC4M |
| Sr | ppm | 10 | 20 | IC4M |
| Zr | ppm | 160 | 170 | IC4M |
| Be | ppm | 1.0 | 1.5 | IC4M |
| Co | ppm | 80 | 70 | IC4M |
| Ga | ppm | 19 | 22 | IC4M |
| Rb | ppm | 1.5 | 3.0 | IC4M |
| Y | ppm | 8 | 25 | IC4M |
| Nb | ppm | 20 | 40 | IC4M |
| Mo | ppm | 14 | 20 | IC4M |
| In | ppm | 2.5 | 1.5 | IC4M |
| Sn | ppm | 15 | 10 | IC4M |
| Hf | ppm | 15 | 12 | IC4M |
| Ta | ppm | 12 | 10 | IC4M |
| W | ppm | 9 | 3 | IC4M |
| Tl | ppm | <3 | <3 | IC4M |
| Th | ppm | 1.5 | 2.0 | IC4M |
| U | ppm | 0.5 | 0.5 | IC4M |

Hole WBP1 : EL7366

646705 = 117 – 118m.

646706 = 118 – 119m.

# APPENDIX 4

## WHITE BOMB PROSPECT DRILLING SUMMARY

DRILLING SUMMARY

EL 7366: WHITE BOMB PROSPECT

AUGUST 1993

| HOLE | CO-ORDS | COLLAR RL | DIRECTION | ANGLE | LENGTH | INTERSECTIONS AND NOTES |
|---|---|---|---|---|---|---|
| WBP1 | 6521.6E<br>5049.5N | 87.3m | 345.5°m | -54° | 144m | 0-58m = 58m av. 700 ppm Zn; 2100 ppm Pb<br>58-84m = 26m av. 440 ppm Zn; 300 ppm Pb<br>84-102m = 18m av. 2560 ppm Zn; 1650 ppm Pb<br>102-132m = 30m av. 3.84% Zn; 0.67% Pb (dolerite sill)<br>incl. 115-121m = 6m av. 11.68% Zn; 1.98% Pb; 48.5 ppm Ag.<br>132-139m = 7m av. 3240 ppm Zn; 1020 ppm Pb<br>139-144m = 5m av. 390 ppm Zn; 290 ppm Pb |
| WBP2 | 6452E<br>5072N | 92.0m | 022.5°m | -51° | 120m | 0-16m = 16m av. 2460 ppm Pb<br>16-24m = 8m av. 1770 ppm Zn; 1.66% Pb<br>incl. 14-20m = 6m av. 25 ppm Ag<br>72-74m = 2m av. 1550 ppm Zn<br>88-93m = 5m av. 975 ppm Zn<br>99-101m = 2m av. 1080 ppm Zn |
| WBP3 | 6448E<br>5063N | 91.3m | 022.5° | -85.5° | 96m | 6-28m = 22m av. 160 ppm Zn; 1780 ppm Pb<br>56-96m = 40m av. 9650 ppm Zn; 3960 ppm Pb<br>incl. 74-76m = 2m av. 5.12% Zn, 1.76% Pb |
| WBP4 | 6530.5E<br>5047.8N | 87.8m | 27.5°m | -55° | 144m | 0-93m = 93m av. 370 ppm Zn; 740 ppm Pb (in sediments)<br>93-141.5m = 48.5m av. 1710 ppm Zn; 330 ppm Pb (in dolerite) |
| WBD5 | 6524.5E<br>5035.5N | 86.3m | 347°m | -60° | 212.5m | Percussion pre-collar to 102m; then NQ core<br>0-102m = 102 m av. 1100 ppm Zn; 1840 ppm Pb<br>102-114.85m = 12.85m av. 1820 ppm Zn; 270 ppm Pb<br>114.85-131.7m = 16.85m av. 2360 ppm Zn; 220 ppm Pb<br>131.7-148.5m = 16.8m av. 510 ppm Zn; 125 ppm Pb<br>161.7-170.35m = 8.65m av. 3570 ppm Zn; 705 ppm Pb (in fault) |
| WBD6 | 6444.8E<br>5061.0N | 90.5m | 025°m | -64.5° | 250m | 6-26m = 20m av. 2600 ppm Pb. Percussion pre-collar to 60m; then<br>26-60m = 34m av. 1800 ppm Zn; 2.26% Pb NQ core.<br>incl. 42-46m = 4m av. 10.94% Pb<br>and 40-60m = 20m av. 44 ppm Ag<br>60-108m = 48m av. 530 ppm Zn; 49 ppm Pb |

# APPENDIX 5

## WHITE BOMB SOIL ORIENTATION RESULTS AND ASSAYS

amdel

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Mr. P. Simpson
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PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference :

Our Reference : 3DN0623

Samples Received : 26/07/93
Number of Samples : 16

Results Reported : 28/07/93
Report Pages : 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366

White Bomb Soil Geochem.
Orientation exercise.
Line 6500E

amdel

Job: 3DN0623
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | As |
|---|---|---|---|---|
| 646029 | 44 | 48 | 88 | <50 |
| 646030 | 81 | 55 | 87 | <50 |
| 646031 | 37 | 49 | 30 | <50 |
| 646032 | 15 | 100 | 18 | <50 |
| 646033 | 39 | 180 | 23 | <50 |
| 646034 | 53 | 980 | 155 | <50 |
| 646035 | 43 | 1040 | 240 | <50 |
| 646036 | 150 | 1200 | 300 | <50 |
| 646037 -40#+80# | 55 | 59 | 105 | <50 |
| 646037 -80#+200# | 45 | <4 | 56 | <50 |
| 646037 -200# | 84 | <4 | 50 | <50 |
| 646038 -40#+80# | 54 | 74 | 94 | <50 |
| 646038 -80#+200# | 43 | 48 | 62 | <50 |
| 646038 -200# | 69 | 60 | 66 | <50 |
| 646039 -40#+80# | 42 | 74 | 47 | <50 |
| 646039 -80#+200# | 37 | 27 | 9 | <50 |
| 646039 -200# | 58 | 41 | 10 | <50 |
| 646040 -40#+80# | 45 | 170 | 56 | <50 |
| 646040 -80#+200# | 39 | 81 | 5 | <50 |
| 646040 -200# | 59 | 155 | 17 | <50 |
| 646041 -40#+80# | 32 | 220 | 49 | <50 |
| 646041 -80#+200# | 42 | 160 | 22 | <50 |
| 646041 -200# | 49 | 175 | 13 | <50 |
| 646042 -40#+80# | 48 | 1160 | 170 | <50 |
| 646042 -80#+200# | 51 | 960 | 150 | <50 |
| 646042 -200# | 71 | 980 | 135 | <50 |
| 646043 -40#+80# | 48 | 990 | 240 | <50 |
| 646043 -80#+200# | 59 | 940 | 210 | <50 |
| 646043 -200# | 61 | 870 | 150 | <50 |
| 646044 -40#+80# | 39 | 1330 | 360 | <50 |
| 646044 -80#+200# | 39 | 1000 | 270 | <50 |
| 646044 -200# | 47 | 990 | 240 | <50 |

EL7366

White Bomb: soil geochem. orientation exercise : line 6500E

| | | | | |
|---|---|---|---|---|
| UNITS | ppm | ppm | ppm | ppm |
| DET.LIM | 2 | 4 | 2 | 50 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 |

# APPENDIX 6

## ASSAY RESULTS - OTHER PROSPECTS

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R24/6/93

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Mr. N. Byrne
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0477 |
| Samples Received | : 20/06/93 | Results Reported | : 22/06/93 |
| Number of Samples | : 32 | Report Pages | : 1 to 2 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366 Rock Samples

CRAE Pb-Zn prospect
Occidental Pb Zn "
White Bomb East

amdel

Job: 3DN0477
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | |
|---|---|---|---|
| 581567 | <0.01 | -- | CRAE Pb-Zn prospect |
| 581568 | <0.01 | -- | |
| 581569 | <0.01 | -- | |
| 581570 | <0.01 | <0.01 | |
| 581571 | <0.01 | -- | |
| 581572 | <0.01 | -- | |
| 581573 | <0.01 | -- | |
| 581574 | <0.01 | -- | |
| 581575 | <0.01 | -- | |
| 581576 | <0.01 | -- | |
| 581577 | <0.01 | -- | |
| 581578 | <0.01 | -- | |
| 581579 | <0.01 | -- | |
| 581580 | <0.01 | -- | |
| 581581 | <0.01 | <0.01 | White Bomb East |
| 581582 | <0.01 | -- | |
| 581583 | <0.01 | -- | |
| 581584 | <0.01 | -- | |
| 581585 | <0.01 | -- | |
| 581588 | <0.01 | -- | Occidental prosp. |
| 581589 | <0.01 | -- | |
| 581590 | <0.01 | -- | |
| 581591 | <0.01 | -- | |
| 581592 | <0.01 | -- | |
| 581593 | <0.01 | -- | |
| 581594 | <0.01 | -- | |
| 581595 | <0.01 | -- | |
| 581596 | <0.01 | -- | |
| 581597 | <0.01 | <0.01 | |
| 581598 | <0.01 | -- | |
| UNITS | ppm | ppm | |
| DET.LIM | 0.01 | 0.01 | |
| SCHEME | FA1 | FA1 | |

EL7366 Rock Samples

amdel

Job: 3DN0477
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Cu | Pb | Zn | Mn | Fe | As | |
|---|---|---|---|---|---|---|---|
| 581567 | 15 | 21 | 145 | 12 | 5.98% | 100 | CRAE Pb-Zn prospect |
| 581568 | 13 | 28 | 170 | 150 | 10.8% | 160 | |
| 581569 | 13 | 8 | 140 | 17 | 5.92% | 130 | |
| 581570 | 16 | 6 | 510 | 67 | 11.1% | 150 | |
| 581571 | 120 | 155 | 650 | 240 | 12.9% | 100 | |
| 581572 | 125 | 1190 | 2470 | 9920 | 19.8% | 840 | |
| 581573 | 18 | 41 | 430 | 360 | 3.30% | <50 | |
| 581574 | 86 | <4 | 430 | 185 | 16.8% | 320 | |
| 581575 | 54 | 65 | 270 | 3470 | 7.88% | 200 | |
| 581576 | 13 | 41 | 105 | 35 | 6.52% | <50 | |
| 581577 | 135 | 120 | 820 | 120 | 16.2% | 300 | |
| 581578 | 350 | 95 | 1760 | 2850 | 21.5% | 440 | |
| 581579 | 180 | 97 | 570 | 340 | 26.2% | 280 | |
| 581580 | 140 | 97 | 390 | 175 | 26.6% | 270 | |
| 581581 | 95 | 81 | 780 | 85 | 20.9% | 100 | |
| 581582 | 86 | 68 | 770 | 70 | 15.9% | 80 | |
| 581583 | 94 | 180 | 2860 | 990 | 15.8% | 600 | White Bomb East |
| 581584 | 150 | 400 | 195 | 91 | 11.2% | 130 | |
| 581585 | 145 | 99 | 330 | 130 | 11.5% | 90 | |
| 581588 | 130 | 130 | 1310 | 540 | 15.3% | 140 | Occidental prospect |
| 581589 | 210 | 92 | 1340 | 7830 | 15.1% | 180 | |
| 581590 | 135 | 76 | 870 | 1940 | 16.6% | 350 | |
| 581591 | 180 | 130 | 410 | 6430 | 10.4% | 270 | |
| 581592 | 170 | 78 | 1800 | 230 | 23.2% | 90 | |
| 581593 | 250 | 760 | 3880 | 250 | 15.8% | 90 | |
| 581594 | 185 | 540 | 2470 | 6150 | 15.4% | 160 | |
| 581595 | 70 | 45 | 280 | 710 | 11.6% | <50 | |
| 581596 | 105 | 120 | 1180 | 670 | 20.4% | 140 | |
| 581597 | 100 | 68 | 690 | 6720 | 23.0% | 90 | |
| 581598 | 90 | 250 | 115 | 420 | 2.02% | <50 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| DET.LIM | 2 | 4 | 2 | 4 | 5 | 50 | |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 | |

EL7366 Rock samples

amdel

R(W)7/93

21 Marjorie Street, Berrimah, Northern Territory
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Mr. N. Byrne
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference :

Our Reference : 3DN0529

Samples Received : 03/07/93
Number of Samples : 12

Results Reported : 12/07/93
Report Pages : 1 to 2

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

EL 7366

Occidental Pb-Zn prospect
and
Woollybutt Reefs Au "

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0529
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | |
|---|---|---|---|
| 646004 | <0.01 | -- | Occidental Pb-Zn prospect |
| 646008 | 0.10 | -- | Woollybutt Reefs Au |
| 646009 | 0.05 | -- | |
| 646010 | 0.03 | -- | |
| 646011 | 0.02 | -- | |
| 646012 | <0.01 | -- | |
| UNITS | ppm | ppm | |
| DET.LIM | 0.01 | 0.01 | |
| SCHEME | FA1 | FA1 | |

amdel

R30/8/19

21 Marjorie Street, Berrimah, Northern Territory
Postal Address : P.O. Box 58, Berrimah, N.T. 0828
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Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0737 |
| Samples Received | : 23/08/93 | Results Reported | : 25/08/93 |
| Number of Samples | : 12 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366

Hill 133 Au prospect

amdel

Job: 3DN0737
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | Cu | Pb | Zn | Ag | As |
|---|---|---|---|---|---|---|---|
| 646057 | <0.01 | <0.01 | 24 | <4 | 250 | <1 | 120 |
| 646058 | <0.01 | 0.01 | 71 | 6 | 30 | <1 | 210 |
| 646059 | 0.76 | 0.80 | 300 | 11 | 53 | <1 | 320 |
| 646060 | 1.48 | 1.58 | 510 | 36 | 55 | 2 | 190 |
| 646061 | 1.23 | 1.25 | 520 | 19 | 48 | <1 | 1130 |
| 646062 | <0.01 | <0.01 | 29 | 41 | 2 | <1 | 130 |
| 646063 | 0.11 | 0.12 | 390 | 15 | 33 | 1 | 180 |
| 646064 | 0.15 | 0.15 | 130 | 200 | 15 | 1 | 280 |
| 646065 | <0.01 | <0.01 | 145 | 14 | 64 | <1 | 620 |
| 646066 | <0.01 | <0.01 | 100 | 15 | 34 | <1 | 220 |
| 646067 | 1.16 | 1.20 | 780 | 7 | 84 | <1 | 190 |

EL7366

Hill 133 Au prospect

Rock samples

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| DET.LIM | 0.01 | 0.01 | 2 | 4 | 2 | 1 | 50 |
| SCHEME | FA1 | FA1 | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 |

amdel

R9/9/3

21 Marjorie Street, Berrimah, Northern Territory
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Mr. P. Simpson
GIANTS REEF MINING N.L.
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WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0738 |
| Samples Received | : 23/08/93 | Results Reported | : 01/09/93 |
| Number of Samples | : 12 | Report Pages | : 1 to 2 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL 7366

Hill 133 Au prospect

Stream sed. samples

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0738
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | AuDp2 | Cu | Pb | Zn | As |
|---|---|---|---|---|---|---|---|
| 646071 -80# | 1.3 | 1.1 | -- | 24 | <4 | 3 | <50 |
| 646071 -200# | 1.8 | -- | -- | 24 | 8 | 3 | <50 |
| 646072 -80# | 5.1 | -- | -- | 35 | 14 | 7 | 80 |
| 646072 -200# | 83 | 15 | 39 | 38 | 13 | 21 | <50 |
| 646073 -80# | 4.7 | -- | -- | 47 | 9 | 40 | <50 |
| 646073 -200# | 3.6 | -- | -- | 50 | 11 | 8 | <50 |
| 646074 -80# | 4.0 | -- | -- | 36 | 16 | 10 | <50 |
| 646074 -200# | 5.0 | -- | -- | 39 | 14 | 12 | <50 |
| 646071 | -- | -- | -- | -- | -- | -- | -- |
| 646072 | -- | -- | -- | -- | -- | -- | -- |
| 646073 | -- | -- | -- | -- | -- | -- | -- |
| 646074 | -- | -- | -- | -- | -- | -- | -- |

EL7366

Hill 133 Au prospect

Stream sed. samples

| UNITS | ppb | ppb | ppb | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|
| DET.LIM | 0.2 | 0.2 | 0.2 | 2 | 4 | 2 | 50 |
| SCHEME | AAS9L | AAS9L | AAS9L | AAS2 | AAS2 | AAS2 | AAS2 |

amdel

Job: 3DN0738
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | As |
|---|---|---|
| 646071 -80# | -- | <2 |
| 646071 -200# | -- | <2 |
| 646072 -80# | -- | 5 |
| 646072 -200# | -- | 4 |
| 646073 -80# | -- | 5 |
| 646073 -200# | -- | 4 |
| 646074 -80# | -- | 12 |
| 646074 -200# | -- | 14 |
| 646071 | 0.34 | -- |
| 646072 | 4.92 | -- |
| 646073 | 5.12 | -- |
| 646074 | 6.78 | -- |

EL7366

Hill 133 Au prospect

Stream sed. samples

| UNITS | ppb | ppm |
|---|---|---|
| DET.LIM | 0.05 | 2 |
| SCHEME | BLEG2 | XRF1 |

amdel

R 9/9/93

21 Marjorie Street, Berrimah, Northern Territory
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Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference :

Our Reference : 3DN0770

Samples Received : 31/08/93
Number of Samples : 6

Results Reported : 02/09/93
Report Pages : 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366

Hill 133 Au prospect

rock samples

amdel

Job: 3DN0770
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDup1 | As | Cu |
|---|---|---|---|---|
| 646077 | <0.02 | -- | 760 | 30 |
| 646079 | 0.03 | -- | <50 | 100 |
| 646080 | 1.48 | -- | 500 | 260 |
| 646081 | 0.22 | 0.25 | 320 | 470 |
| 646082 | 1.91 | -- | 240 | 200 |

EL7366

Hill 133 Au prospect

| UNITS | ppm | ppm | ppm | ppm |
|---|---|---|---|---|
| DET.LIM | 0.02 | 0.02 | 50 | 2 |
| SCHEME | AAS7 | AAS7 | AAS2 | AAS2 |

amdel

R12/3/4

21 Marjorie Street, Berrimah, Northern Territory
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Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

Your Reference :

Our Reference : 3DN0649

Samples Received : 04/06/93
Number of Samples : 5

Results Reported : 04/08/93
Report Pages : 1 to 1

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL7366

Hill 133 Au prospect

Approved signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0649
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | Cu | Pb | Zn | As |
|---|---|---|---|---|---|---|
| 646054 | 0.18 | -- | 330 | 21 | 57 | 160 |

EL7366

Hill 133 Au prospect

| | | | | | | |
|---|---|---|---|---|---|---|
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm |
| DET.LIM | 0.01 | 0.01 | 2 | 4 | 2 | 50 |
| SCHEME | FA1 | FA1 | AAS2 | AAS2 | AAS2 | AAS2 |

amdel

R17/9/93

21 Marjorie Street, Berrimah, Northern Territory
Postal Address : P.O. Box 58, Berrimah, N.T. 0828
Telephone: (089) 322 637 Facsimile: (089) 323 531

Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0802 |
| Samples Received | : 07/09/93 | Results Reported | : 10/09/93 |
| Number of Samples | : 6 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL7366

Hill 133 Au prospect
rock samples

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0802
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | As |
|---|---|---|---|
| 646086 | 0.75 | 0.67 | 780 |
| 646087 | <0.01 | <0.01 | 80 |
| 646088 | 0.23 | 0.25 | 320 |
| 646089 | <0.01 | <0.01 | 200 |
| 646090 | 0.03 | 0.02 | 440 |
| 646091 | 0.02 | 0.03 | 820 |

EL7366

Hill 133 Au prospect

rocks

| UNITS | ppm | ppm | ppm |
|---|---|---|---|
| DET.LIM | 0.01 | 0.01 | 50 |
| SCHEME | FA1 | FA1 | AAS2 |

amdel

R27/10/93

21 Marjorie Street, Berrimah, Northern Territory
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Telephone: (089) 322 637 Facsimile: (089) 323 531

Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0989 |
| Samples Received | : 22/10/93 | Results Reported | : 25/10/93 |
| Number of Samples | : 3 | Report Pages | : 1 to 1 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL 7366

reconnaissance rock Samples.

EL7366

Hill 133 Au prospect

rock sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0989
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | As |
|---|---|---|---|
| 646096 | <0.01 | <0.01 | 1380 |

EL7366

Hill 133 Au prospect

Rock sample

| | | | |
|---|---|---|---|
| UNITS | ppm | ppm | ppm |
| DET.LIM | 0.01 | 0.01 | 50 |
| SCHEME | FA1 | FA1 | AA1 |

amdel

R21/9/93

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GIANTS REEF MINING N.L.
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WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0791 |
| Samples Received | : 03/09/93 | Results Reported | : 15/09/93 |
| Number of Samples | : 18 | Report Pages | : 1 to 2 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL7366

Hill 133 Au prospect

Orientation soil geochem. along northern Costean line

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0791
O/N:

Final ANALYTICAL REPORT

| SAMPLE | Cu | As | Ag | Pb | Zn | Au | AuDp1 |
|---|---|---|---|---|---|---|---|
| 100068 +80# | 30 | <50 | <1 | 17 | 12 | 0.005 | -- |
| 100068 -80 +200# | 35 | <50 | <1 | 11 | 6 | 0.008 | -- |
| 100068 -200# | 26 | <50 | <1 | 12 | 7 | 0.012 | -- |
| 100069 +80# | 48 | 50 | <1 | 15 | 17 | 0.009 | -- |
| 100069 -80 +200# | 6 | <50 | <1 | 9 | 7 | 0.005 | -- |
| 100069 -200# | 7 | <50 | <1 | 10 | 7 | 0.006 | -- |
| 100070 +80# | 100 | 230 | <1 | 18 | 18 | 0.010 | -- |
| 100070 -80 +200# | 34 | <50 | <1 | 9 | 6 | 0.009 | -- |
| 100070 -200# | 36 | <50 | <1 | 7 | 7 | 0.009 | -- |
| 100071 +80# | 91 | 340 | <1 | 24 | 21 | 0.009 | -- |
| 100071 -80 +200# | 29 | <50 | <1 | 9 | 8 | 0.005 | -- |
| 100071 -200# | 22 | <50 | <1 | 9 | 7 | 0.009 | -- |
| 100072 +80# | 89 | 300 | <1 | 23 | 20 | 0.008 | -- |
| 100072 -80 +200# | 44 | <50 | <1 | 12 | 10 | 0.010 | -- |
| 100072 -200# | 38 | <50 | <1 | 8 | 9 | 0.011 | -- |
| 100073 +80# | 78 | 100 | <1 | 12 | 17 | 0.009 | -- |
| 100073 -80 +200# | 43 | <50 | <1 | 10 | 6 | 0.010 | -- |
| 100073 -200# | 43 | <50 | <1 | 5 | 7 | 0.017 | -- |
| 100074 +80# | 87 | 70 | <1 | 18 | 20 | 0.014 | -- |
| 100074 -80 +200# | 38 | <50 | <1 | <4 | 7 | 0.010 | -- |
| 100074 -200# | 39 | <50 | <1 | 5 | 7 | 0.022 | -- |
| 100075 +80# | 83 | 80 | <1 | 14 | 20 | 0.022 | -- |
| 100075 -80 +200# | 33 | <50 | <1 | <4 | 9 | 0.011 | -- |
| 100075 -200# | 33 | <50 | <1 | <4 | 10 | 0.011 | 0.008 |
| 100076 +80# | 74 | 80 | <1 | 12 | 14 | 0.027 | -- |
| 100076 -80 +200# | 35 | <50 | <1 | <4 | 5 | 0.015 | -- |
| 100076 -200# | 37 | <50 | <1 | <4 | 5 | 0.017 | 0.016 |
| 100077 +80# | 59 | 140 | <1 | 11 | 17 | 0.033 | -- |
| 100077 -80 +200# | 11 | <50 | <1 | <4 | 3 | 0.020 | -- |
| 100077 -200# | 12 | <50 | <1 | 4 | 4 | 0.018 | -- |
| 100078 +80# | 110 | 80 | <1 | 12 | 20 | 0.008 | -- |
| 100078 -80 +200# | 45 | <50 | <1 | <4 | 12 | 0.008 | -- |
| 100078 -200# | 48 | <50 | <1 | <4 | 12 | 0.007 | 0.011 |
| 100079 +80# | 90 | 80 | <1 | 14 | 20 | 0.011 | -- |
| 100079 -80 +200# | 46 | <50 | <1 | <4 | 13 | 0.009 | -- |
| 100079 -200# | 49 | <50 | <1 | 4 | 14 | 0.007 | -- |
| 100080 +80# | 89 | 110 | <1 | 16 | 37 | 0.012 | -- |
| 100080 -80 +200# | 39 | <50 | <1 | <4 | 13 | 0.009 | -- |
| 100080 -200# | 44 | <50 | <1 | 5 | 15 | 0.013 | -- |
| 100081 +80# | 120 | 90 | <1 | 11 | 21 | 0.014 | -- |
| 100081 -80 +200# | 47 | <50 | <1 | 5 | 12 | 0.011 | -- |
| 100081 -200# | 43 | <50 | <1 | 5 | 12 | 0.013 | -- |
| 100082 +80# | 77 | 70 | <1 | 14 | 22 | 0.007 | -- |
| 100082 -80 +200# | 34 | <50 | <1 | <4 | 10 | 0.008 | -- |
| 100082 -200# | 45 | <50 | <1 | 5 | 14 | 0.011 | -- |
| 100083 +80# | 53 | 60 | <1 | 17 | 20 | 0.005 | -- |
| 100083 -80 +200# | 16 | <50 | <1 | 4 | 9 | 0.003 | -- |
| 100083 -200# | 28 | <50 | <1 | 5 | 11 | 0.004 | -- |
| 100084 +80# | 48 | 80 | <1 | 17 | 17 | 0.008 | -- |
| 100084 -80 +200# | 6 | <50 | <1 | <4 | 5 | 0.005 | -- |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| DET.LIM | 2 | 50 | 1 | 4 | 2 | 0.001 | 0.001 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 | AAS9 | AAS9 |

amdel

Job: 3DN0791
O/N:

Final ANALYTICAL REPORT

| SAMPLE | Cu | As | Ag | Pb | Zn | Au | AuDp1 |
|---|---|---|---|---|---|---|---|
| 100084 -200# | 6 | <50 | <1 | 4 | 7 | 0.005 | -- |
| 100085 +80# | 50 | 90 | <1 | 17 | 17 | 0.004 | -- |
| 100085 -80 +200# | 6 | <50 | <1 | 4 | 6 | 0.005 | -- |
| 100085 -200# | 8 | <50 | <1 | 6 | 9 | 0.005 | 0.005 |

EL 7366

Hill 133 Au prospect

Orientation soil geochem. along northern costean line.

| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
|---|---|---|---|---|---|---|---|
| DET.LIM | 2 | 50 | 1 | 4 | 2 | 0.001 | 0.001 |
| SCHEME | AAS2 | AAS2 | AAS2 | AAS2 | AAS2 | AAS9 | AAS9 |

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R17/9/93

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Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0805 |
| Samples Received | : 08/09/93 | Results Reported | : 13/09/93 |
| Number of Samples | : 101 | Report Pages | : 1 to 3 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

EL7366

Hill 133 Au prospect

3m costean samples

amdel

Job: 3DN0805
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | As |
|---|---|---|---|
| 100086 | <0.01 | -- | 110 |
| 100087 | <0.01 | -- | 80 |
| 100088 | <0.01 | -- | 130 |
| 100089 | <0.01 | -- | 190 |
| 100090 | <0.01 | -- | 150 |
| 100091 | <0.01 | -- | 160 |
| 100092 | <0.01 | -- | 70 |
| 100093 | <0.01 | -- | 100 |
| 100094 | <0.01 | -- | 190 |
| 100095 | <0.01 | -- | 250 |
| 100096 | 0.08 | -- | 340 |
| 100097 | <0.01 | -- | 260 |
| 100098 | 0.03 | -- | 270 |
| 100099 | 0.10 | -- | 440 |
| 100100 | 0.08 | -- | 350 |
| 100101 | 0.02 | -- | 300 |
| 100102 | <0.01 | -- | 190 |
| 100103 | <0.01 | -- | 250 |
| 100104 | <0.01 | -- | 110 |
| 100105 | <0.01 | <0.01 | 130 |
| 100106 | 0.10 | -- | 480 |
| 100107 | 0.01 | -- | 640 |
| 100108 | <0.01 | -- | 370 |
| 100109 | <0.01 | -- | 520 |
| 100110 | <0.01 | -- | 340 |
| 100111 | <0.01 | -- | 400 |
| 100112 | <0.01 | -- | 260 |
| 100113 | 0.03 | 0.04 | 230 |
| 100114 | 0.04 | -- | 190 |
| 100115 | <0.01 | -- | 100 |
| 100116 | <0.01 | -- | 120 |
| 100117 | <0.01 | -- | 130 |
| 100118 | <0.01 | -- | 90 |
| 100119 | <0.01 | -- | 80 |
| 100120 | <0.01 | -- | <50 |
| 100121 | 0.06 | -- | 50 |
| 100122 | <0.01 | -- | <50 |
| 100123 | <0.01 | -- | <50 |
| 100124 | 0.03 | -- | 80 |
| 100125 | <0.01 | <0.01 | <50 |
| 100126 | <0.01 | -- | <50 |
| 100127 | 0.06 | -- | 50 |
| 100128 | 0.05 | -- | 50 |
| 100129 | <0.01 | -- | <50 |
| 100130 | <0.01 | -- | <50 |
| 100131 | 0.04 | -- | 50 |
| 100132 | 0.04 | -- | <50 |
| 100133 | <0.01 | -- | <50 |
| 100134 | <0.01 | -- | <50 |
| 100135 | 0.08 | 0.08 | 70 |
| UNITS | ppm | ppm | ppm |
| DET.LIM | 0.01 | 0.01 | 50 |
| SCHEME | FA1 | FA1 | AAS2 |

EL7366

Hill 133 Au prospect

3m costean samples

amdel

Job: 3DN0805
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | As |
|---|---|---|---|
| 100136 | 0.17 | -- | 100 |
| 100137 | <0.01 | -- | <50 |
| 100138 | 0.10 | -- | 80 |
| 100139 | <0.01 | -- | 70 |
| 100140 | 0.06 | -- | 150 |
| 100141 | 0.04 | -- | 200 |
| 100142 | 0.06 | -- | 230 |
| 100143 | 0.03 | -- | 80 |
| 100144 | <0.01 | -- | 60 |
| 100145 | 0.02 | -- | 130 |
| 100146 | 0.05 | -- | 170 |
| 100147 | 0.23 | -- | 400 |
| 100148 | 0.15 | -- | 190 |
| 100149 | 0.06 | -- | 140 |
| 100150 | 0.07 | 0.06 | 110 |
| 100151 | 0.01 | -- | 50 |
| 100152 | 0.03 | -- | 130 |
| 100153 | <0.01 | -- | 90 |
| 100154 | 0.01 | -- | <50 |
| 100155 | <0.01 | -- | 140 |
| 100156 | <0.01 | -- | 80 |
| 100157 | <0.01 | -- | <50 |
| 100158 | <0.01 | -- | 80 |
| 100159 | 0.01 | -- | 80 |
| 100160 | <0.01 | -- | <50 |
| 100161 | 0.04 | -- | 260 |
| 100162 | <0.01 | -- | 70 |
| 100163 | <0.01 | -- | 50 |
| 100164 | 0.01 | -- | 250 |
| 100165 | <0.01 | <0.01 | <50 |
| 100166 | <0.01 | -- | <50 |
| 100167 | <0.01 | -- | <50 |
| 100168 | <0.01 | -- | <50 |
| 100169 | <0.01 | -- | 170 |
| 100170 | <0.01 | -- | 150 |
| 100171 | <0.01 | -- | 70 |
| 100172 | <0.01 | -- | 80 |
| 100173 | <0.01 | -- | 60 |
| 100174 | 0.04 | -- | 70 |
| 100175 | 0.02 | -- | 60 |
| 100176 | <0.01 | -- | 60 |
| 100177 | <0.01 | -- | 60 |
| 100178 | <0.01 | -- | <50 |
| 100179 | <0.01 | -- | <50 |
| 100180 | <0.01 | -- | <50 |
| 100181 | <0.01 | -- | <50 |
| 100182 | <0.01 | -- | <50 |
| 100183 | <0.01 | -- | <50 |
| 100184 | <0.01 | <0.01 | <50 |
| 100185 | <0.01 | -- | <50 |
| UNITS | ppm | ppm | ppm |
| DET.LIM | 0.01 | 0.01 | 50 |
| SCHEME | FA1 | FA1 | AAS2 |

EL7366

Hill 133 Au prospect

3m costean samples

amdel

Job: 3DN0805
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | As |
|---|---|---|---|
| 100186 | <0.01 | -- | <50 |
| UNITS | ppm | ppm | ppm |
| DET.LIM | 0.01 | 0.01 | 50 |
| SCHEME | FA1 | FA1 | AAS2 |

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K17/9/93

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Mr. P. Simpson
GIANTS REEF MINING N.L.
PO BOX 38254
WINNELLIE

NT 0821

ANALYSIS REPORT :

| | | | |
|---|---|---|---|
| Your Reference | : | Our Reference | : 3DN0806 |
| Samples Received | : 08/09/93 | Results Reported | : 13/09/93 |
| Number of Samples | : 80 | Report Pages | : 1 to 2 |

This report relates specifically to the samples tested in so far as the samples supplied are truly representative of the sample source.

If you have any enquiries please contact the undersigned quoting our reference as above.

Report Codes:
N.A. -Not Analysed
L.N.R. -Listed But Not Received
I.S. -Insufficient Sample

EL7366

Hill 133 Au prospect

3m Costean samples

Approved Signature:

for

ALAN CIPLYS
Manager - Darwin
AMDEL LABORATORIES LIMITED
A.C.N. 009 076 555

amdel

Job: 3DN0806
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | As |
|---|---|---|---|
| 100187 | <0.01 | -- | <50 |
| 100188 | <0.01 | -- | <50 |
| 100189 | <0.01 | -- | <50 |
| 100190 | <0.01 | -- | <50 |
| 100191 | <0.01 | -- | 60 |
| 100192 | <0.01 | -- | <50 |
| 100193 | <0.01 | -- | <50 |
| 100194 | <0.01 | <0.01 | <50 |
| 100195 | <0.01 | -- | <50 |
| 100196 | <0.01 | <0.01 | <50 |
| 100197 | <0.01 | -- | <50 |
| 100198 | <0.01 | -- | 60 |
| 100199 | <0.01 | -- | <50 |
| 100200 | <0.01 | -- | <50 |
| 100201 | <0.01 | -- | <50 |
| 100202 | <0.01 | -- | <50 |
| 100203 | <0.01 | -- | <50 |
| 100204 | <0.01 | -- | <50 |
| 100205 | <0.01 | -- | <50 |
| 100206 | <0.01 | -- | 100 |
| 100207 | <0.01 | -- | <50 |
| 100208 | <0.01 | -- | <50 |
| 100209 | <0.01 | -- | <50 |
| 100210 | <0.01 | -- | <50 |
| 100211 | <0.01 | -- | <50 |
| 100212 | <0.01 | -- | <50 |
| 100213 | <0.01 | -- | <50 |
| 100214 | <0.01 | -- | <50 |
| 100215 | <0.01 | -- | <50 |
| 100216 | <0.01 | -- | <50 |
| 100217 | <0.01 | -- | <50 |
| 100218 | <0.01 | -- | <50 |
| 100219 | <0.01 | -- | <50 |
| 100220 | <0.01 | -- | <50 |
| 100221 | <0.01 | -- | <50 |
| 100222 | <0.01 | -- | <50 |
| 100223 | <0.01 | -- | <50 |
| 100224 | <0.01 | -- | <50 |
| 100225 | <0.01 | -- | <50 |
| 100226 | <0.01 | -- | <50 |
| 100227 | <0.01 | -- | <50 |
| 100228 | <0.01 | -- | <50 |
| 100229 | <0.01 | -- | <50 |
| 100230 | <0.01 | -- | <50 |
| 100231 | <0.01 | <0.01 | <50 |
| 100232 | <0.01 | -- | <50 |
| 100233 | <0.01 | -- | <50 |
| 100234 | <0.01 | -- | <50 |
| 100235 | <0.01 | -- | 60 |
| 100236 | <0.01 | -- | <50 |
| UNITS | ppm | ppm | ppm |
| DET.LIM | 0.01 | 0.01 | 50 |
| SCHEME | FA1 | FA1 | AAS2 |

EL7366

Hill 133 Au prospect

3m costean samples

amdel

Job: 3DN0806
O/N:

Final

ANALYTICAL REPORT

| SAMPLE | Au | AuDp1 | As |
|---|---|---|---|
| 100237 | <0.01 | -- | <50 |
| 100238 | <0.01 | <0.01 | <50 |
| 100239 | <0.01 | -- | <50 |
| 100240 | <0.01 | -- | <50 |
| 100241 | <0.01 | -- | <50 |
| 100242 | <0.01 | -- | <50 |
| 100243 | <0.01 | -- | <50 |
| 100244 | <0.01 | -- | <50 |
| 100245 | <0.01 | -- | <50 |
| 100246 | <0.01 | -- | <50 |
| 100247 | <0.01 | -- | <50 |
| 100248 | <0.01 | -- | <50 |
| 100249 | <0.01 | -- | <50 |
| 100250 | 0.01 | -- | <50 |
| 100251 | 0.06 | -- | <50 |
| 100252 | <0.01 | -- | <50 |
| 100253 | <0.01 | -- | <50 |
| 100254 | <0.01 | -- | <50 |
| 100255 | <0.01 | -- | <50 |
| 100256 | <0.01 | -- | <50 |
| 100257 | <0.01 | -- | <50 |
| 100258 | 0.01 | -- | 60 |
| 100259 | 0.01 | -- | 70 |
| 100260 | <0.01 | -- | 60 |
| 100261 | <0.01 | -- | <50 |
| 100262 | <0.01 | -- | <50 |
| 100263 | <0.01 | -- | <50 |
| 100264 | <0.01 | -- | <50 |
| 100265 | <0.01 | <0.01 | <50 |
| 100266 | <0.01 | -- | <50 |

EL7366

Hill 133 Au prospect
3m costean samples

| UNITS | ppm | ppm | ppm |
|---|---|---|---|
| DET.LIM | 0.01 | 0.01 | 50 |
| SCHEME | FA1 | FA1 | AAS2 |

# APPENDIX 7

## PETROLOGY

ROCKCO PTY. LTD.
Report No. 164-93

## THE IDENTIFICATIONS OF ROCK SPECIMENS 581593(1) AND (2)

# ROCKCO PTY. LTD.

## MINERALOGY & PETROLOGY SERVICES

195 Mt Ommaney Drive, Jindalee. Qld. 4074 Home:(07) 376 2303 Lab: (07) 833 8424 Fax: (07) 374 2048

**REPORT NO : 164-93**
**JULY 1993**

**SUBJECT:** THE IDENTIFICATION OF ROCK SPECIMENS 581593(1) AND 581593(2).

**CLIENT:** PETER SIMPSON

EXPLORATION MANAGER
GIANT REEF MINING N.L.
PO BOX 38254
WINNELLIE N.T. 0821

N.J.W. CROXFORD MSc. Ph.D.
(PRINCIPAL)

## INTRODUCTION

Peter Simpson of Giant Reef Mining N.L. requested identification of rock specimens 581593(1) and 581593(2) collected from a base metal prospect near Batchelor, N.T.

Two polished thin sections of each specimen were prepared to determine the rock type(s) and the nature of any mineralization as indicated by assay, viz.,

| Au | Cu | Pb | Zn | As | Mn | Fe |
|---|---|---|---|---|---|---|
| <0.01 | 250 | 760 | 3880 | 90 | 250 | 15.8% |

## SUMMARY

Bearing in mind the highly altered nature of the rocks, it is concluded that:-

1. The original rocks were layered vitric and crystal tuffs of andesitic character.

2. The rocks underwent pervasive silicification.

3. Mild boron metasomatism is indicated by fine, tourmaline composing up to 5% vol. of the silicified rock.

4. Pyrite and ferroan carbonates caused limonitization of these rocks.

5. No base metal minerals were identified either by handspecimen staining or microscopy.

## RESULTS

### SPECIMEN 581593(1)

### HANDSPECIMEN

The broken rock surfaces are dark brown to brown black in colour and partly gossanous in appearance.

The sawn face is thickly layered in medium greys and chocolate browns. Isolated limonite pseudomorphs after pyrite to 2 x 3mm size may exist.

### PETROGRAPHY (PTS[1] 1A AND 1B)

#### 1. ROCK TYPE

When the thin sections are examined against the light with the naked eye, a thick layering is evident. A finer grained 'lineation' parallels the layering.

Under the microscope, the non-limonitic areas of the sections consist of fine grained quartz dispersed with small muscovite (5-10% vol.) flakes and minute tourmaline crystals, the latter composing an estimated 1-5% vol. of the rock.

Dusty carbon occurs throughout the rock matrix.

In reduced, plane polarized light, equant, tabular and prismatic shapes become distinguishable in the muscovitic, quartz groundmass. These reach 1.2 x 3mm size, average about 0.1 x 0.3mm and in places, compose up to 60% vol. of the rock. These shapes are silhouetted by fine grained, yellow brown limonite and are interpreted as silicified plagioclase crystals.

PTS 581593(1)B contains an intermediate layer about 2.1mm thick which lacks the bodies described above, but

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[1] PTS refers to polished thin section.

is regarded as a thin vitric tuff bed in which faint vitroclastic texture may be preserved.

Several angular areas of clear mosaical quartz could be recrystallized quartz phenocryst fragments.

## 2. NATURE OF THE LIMONITE

The limonite formed from pyrite porphyroblasts scattered through the rock matrix. These were most common in PTS(1)B as isolated, subhedral to euhedral crystals of average size about 1.3mm, but reaching 3mm size[2]. The occurrence of quartz-filled pressure shadows around the leached porphyroblasts suggests the pyrite existed before the metamorphism.

Very small pyrite crystals are still preserved in the silicification quartz.

No lead, zinc or copper minerals were identified.

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[2] Best observed with the binocular microscope.

## SPECIMEN 581593(2)

## HANDSPECIMEN

Basically similar to Specimen No. 581593(1) on the broken surface, but on the sawn faces, lenticular medium grey areas to 5 x 20mm rest in a chocolate brown matrix - a pattern similar to that seen in partially weathered ferroan dolomite sediments. Angular pits to 2 x 4mm (on the sawn face) are leached out pyrite porphyroblasts.

## PETROLOGY

### 1. THE ROCK TYPE

The non limonitic areas seen in handspecimen consist of fine grained, muscovitic quartz as in 581593(1) above, but vague "shapes" are just perceivable and tend to be silhouetted by fine granular limonite and dusty carbonaceous matter. Many of these entities are elongate and have an average size about 0.03 x 0.3mm. Some "shapes" are highly suggestive of volcanic shards, ie., vitroclastic texture.

Again, fine grained tourmaline is present and reaches an estimated 5% vol. in places.

### 2. NATURE OF THE LIMONITE

Both polished thin sections are heavily limonitized with most of the limonite having a yellow brown colour characteristic of weathered ankerite and/or siderite. The pre-existence of a carbonate is further indicated by relict rhombohedral shapes and the preservation of minute carbonate grains ($< 5\ \mu m$ size) in the silicification quartz.

Several limonite-rimmed pits in the sections are regarded as leached porphyroblastic pyrite crystals.

716 300m E | 716 400m E | 716 500m E | 716 600m E

8 505 200m N

8 505 100m N

8 505 000m N

Sstn/Slst 85

Slst 63-70

Sstn 80?

Rubble

RIDGE

Top

990 ppm Zn
360 ppm Pb
⊗ 646026 (approx)
ferrug. Slst + qtz

646029
037

Slst/Sstn ?

"wall" of Sstn/qtzte 80 80

old CRA track

2880 ppm Zn
440 ppm Pb
581553

581543

2m channel samples
20m av.
180 ppm Zn
290 ppm Pb

581532

dolerite
Slst/Sstn (approx)

⊗ dol
2000 ppm Zn
270 ppm Pb
646048

dol Slst dol

dol ⊗ 1900 ppm Zn
500 ppm Pb
646027

h'fels Slst 70

hard sandy Slst 55 55

costean (approx)

Slst 45

Sstn 75

Sstn 64

WBP 1
6m at 11.68% Zn

581532

2m channel samples
22m av.
430 ppm Zn
400 ppm Pb

mineralized

581542

gully

blocky Sstn rubble

581537 52

gossan in costean 48

2m channel samples
30m av.
810 ppm Zn
2800 ppm Pb

Slst 53

581533

Slst 50

Slst 51

45

weakly mineralised Sstn

Fault approximately follows creek in NNW direction, as observed from (unmapped) offsets.

Slst 60

WBP 2

WBP 3

WBD 6

WBP 1

WBP 4

646036
044

85
Slst

WBD 5

sump

bulldozed track

Slst 45 40

dol

To Stuart Highway

## LEGEND

WBP 1 — Drillhole and surface projection

Mineralized and/or gossanous outcrop

dol — Dolerite — Zamu Dolerite

Slst — Siltstone — Wildman Siltstone

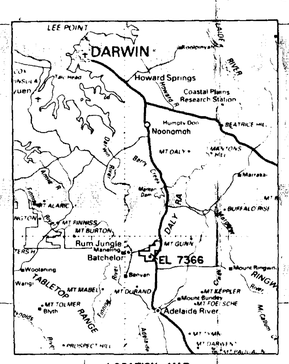
Sstn — Fine grained Sandstone or Quartzite

70 — Bedding orientation, dipping; vertical

646027 ⊗ Rock chip sample

646036 ○ Soil sample (size fraction exercise: 646029 - 646044)

Map compiled from unfinished reconnaissance mapping during drilling programme, July 1993.




LOCATION MAP

0 10 20 30 40 50 m

GIANTS REEF MINING N.L.

**EL 7366 Glen Luckie N.T.**
**RECONNAISSANCE MAP AND DRILL HOLE PROJECTIONS**

PROJ. NAME: WHITE BOMB BASE METALS PROSPECT

SCALE: 1 : 500

PREPARED BY P.G.S. DATE AUGUST 1993

DRAWN BY: C.S.D.S. DRAWING NO. 1

5 050N

5 100N

5 150N

167.5° Mag

347.5° Mag

Costean to East off section
= 30m av. 810 ppm Zn and 2800 ppm Pb.

gossan

dolerite outcrops

RL 100m

WBP 1

WBD 5

58m av.
700 ppm Zn and
2100 ppm Pb

siltstone

50m

Banded and laminated pyritic

58m

0m - 102m
102m av.
1100 ppm Zn and
1840 ppm Pb

26m av.
440 ppm Zn and
300 ppm Pb

84m

18m av.
2560 ppm Zn and
1650 ppm Pb

102m

RL 50m

RC Perc. NO

102m

12.85m av.
1820 ppm Zn and
270 ppm Pb

114.85m

16.85m av.
2360 ppm Zn and
220 ppm Pb

pyritic dolerite

131.7m

Chloritised and

16.8m av.
510 ppm Zn and
125 ppm Pb

148.5m

115m

6m av.
11.68% Zn and
1.98% Pb and
48.5 ppm Ag

121m

30m av.
3.84% Zn and
0.67% Pb

132m

7m av.
3240 ppm Zn and
1020 ppm Pb

139m

5m av.
390 ppm Zn and
290 ppm Pb

144m
WBP 1

RL 0m

laminated pyritic siltstone

Banded and laminated

161.7m

Fault Zone
8.65m av.
3570 ppm Zn and
705 ppm Pb

170.35m

RL -50m

200m

212.5m
WBD 5

0 10 20 30 40 50 m

NOTES-

Assay intervals shown here are arbitrary.
See drill logs for complete assay lists.
Surface profile, hole collars and R.L.s by tape and compass from nearby gravity grid pegs.

GIANTS REEF MINING N.L.

EL7366 Glen Luckie N.T.
CROSS SECTION ON 347.5° MAGNETIC
THROUGH DRILL HOLES WBP 1 & WBD 5

PROJ NAME WHITE BOMB BASE METALS PROSPECT

SCALE: 1 : 500

PREPARED BY: P.G.S. | DATE AUGUST 1993

DRAWN BY: C.S.D.S. | DRAWING NO 2

6 450E

5 100N

6 500E

200° Mag

020° Mag

sandstone rubble & small outcrops

sandstone & siltstone rubble

dolerite outcrops

22m av. 430 ppm Zn, 400 ppm Pb

mineralized crush zone in costean

RL 100m

WBD 6

WBP 3

WBP 2

16m av. 2460 ppm Pb

6m

20m av. 2600 ppm Pb

14m

16m

6m av. 25 ppm Ag

20m

8m av. 1770 ppm Zn 1.66% Pb

24m

22m av. 160 ppm Zn 1780 ppm Pb

26m

28m

40m

42m

34m av. 1800 ppm Zn 2.26% Pb

4m av. 10.94% Pb

46m

20m av. 44 ppm Ag

RC Perc

60m NQ

56m

banded and laminated pyritic siltstone

72m

74m

2m av. 1550 ppm Zn

88m

93m

5m av. 975 ppm Zn

99m

101m

2m av. 1080 ppm Zn

altered Slst

dolerite

RL 50m

40m av. 9650 ppm Zn 3960 ppm Pb

74m

76m

2m av. 5.12% Zn 1.76% Pb

48m av. 530 ppm Zn 49 ppm Pb

100m

108m

96m WBP 3

120m WBP 2

chloritised and pyritic dolerite

altered Slst

RL 0m

150m

altered Slst

165m core orientation

banded and laminated graphitic pyritic siltstone

RL -50m

200m

250m WBD 6

0 10 20 30 40 50 m

NOTES-

Only assay intervals >1000 ppm Zn or Pb shown here.
See drill logs for complete assays.
Surface profile, hole collars and R.L.s by tape and compass from nearby gravity grid pegs.

GIANTS REEF MINING N.L.

EL7366 Glen Luckie N.T.
CROSS SECTION ON 020° MAGNETIC
THROUGH DRILL HOLES WBP2, WBP3 & WBD6

PROJ NAME WHITE BOMB BASE METALS PROSPECT

SCALE: 1 : 500

PREPARED BY P.G.S. DATE AUGUST 1993

DRAWN BY C.S.D.S. DRAWING NO 3

5 050N

6 550E

5 100N

5 150N

6 000E

◄ 207.5° Mag

027.5° Mag ►

RL 100m

RL 50m

RL 0m

RL -50m

dolerite outcrops

WBP 4

93m av.
370 ppm Zn and
740 ppm Pb

chloritised and pyritic dolerite

93m

48.5m av.
1710 ppm Zn and
330 ppm Pb

chloritised and pyritic dolerite

141.5m

144m
WBP 4

0 10 20 30 40 50 m

NOTES-

See drill logs for complete assay lists.
Surface profile and hole collar R.L. by tape and compass from nearby gravity grid pegs.

GIANTS REEF MINING N.L.

EL 7366 Glen Luckie N.T.
CROSS SECTION ON 027.5° MAGNETIC
THROUGH DRILL HOLE WBP 4

PROJ. NAME: WHITE BOMB BASE METALS PROSPECT

SCALE: 1 : 500

| | |
|---|---|
| PREPARED BY: P.G.S. | DATE AUGUST 1993 |
| DRAWN BY: C.S.D.S. | DRAWING NO. 4 |

Block soil gully bottom

727 800mE

727 900mE

728 000mE

8 557 300mN

8 557 200mN

8 557 100mN

Quartz float masking bedrock

Quartz float masking bedrock

Quartz float

Quartz float

RIDGE WITH QUARTZ REEFS

DOLERITE

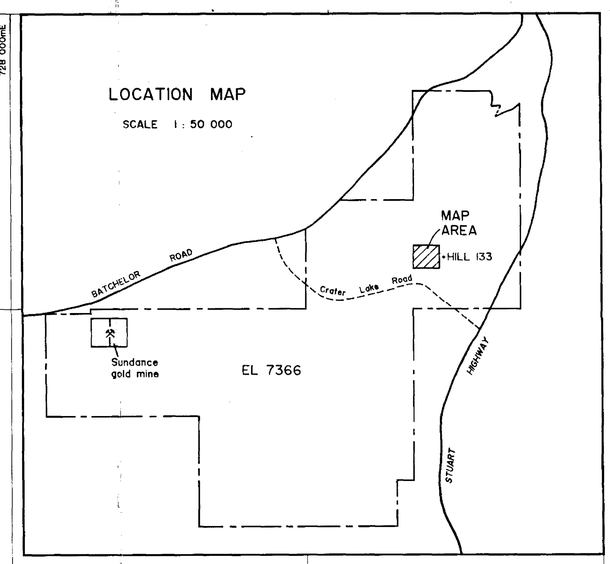
SILTSTONE (WHITES FORMATION)

QUARTZ REEFS RIDGE WITH

TRACK to CRATER LAKE ROAD

## LOCATION MAP

SCALE 1 : 50 000




## LEGEND

100136 — 0.10/80 — 3m Costean Channel with sample numbers and analyses for Au (where > 0.01 g/t) / As (where > 50 ppm)

27,15/7 74,80 100076 — Orientation Soil Samples with Au analyses for +80 mesh, -80 to +200 mesh, and -200 mesh in ppb. Cu and As (+80 mesh only) in ppm.

0 10 20 30 40 50 metres

GIANTS REEF MINING N.L.

**E.L. 7366**
**PRELIMINARY COSTEAN AND SAMPLE LOCATION MAP**
**HILL 133 PROSPECT**

| | |
|---|---|
| PROJ. NAME: | NO. |
| SCALE: 1 : 500 | |
| PREPARED BY: P.G.S. & A.L.E. | DATE 9 - 9 - 1993 |
| DRAWN BY: C.S.D.S. | DRAWING NO. 5 |