

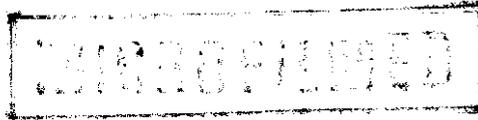


# METALS EXPLORATION LTD. (INCORPORATED IN VICTORIA)

2ND FLOOR JARDINE HOUSE, 184 ST GEORGE'S TERRACE, PERTH, WESTERN AUSTRALIA 6000  
P.O. BOX 7284 CLOISTERS SQUARE, PERTH, WESTERN AUSTRALIA 6000  
TELEPHONE (09) 480 3232. TELEX AA197127 METEX. FAX (09) 324 1042.

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## ADAMSFIELD PROSPECTS

### SOUTH WEST TASMANIA

E.L. 4/85

ANNUAL REPORT FOR THE PERIOD ENDING  
25 JULY 1987

VOLUME 1 OF 2

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SUMMARYAdam River - Lanham Creek Plain

The contiguous alluvial plains of the Adam River and Lanham Creek (and their tributaries) were hand auger drilled on a 500 x 100m grid, totalling 8 kms of traverses. Approximately 70% of the 83 holes (aggregating 221.9m) did not reach basement, including half of the 37% of those holes with visible PGE.

Best results obtained range 0.01 to 11.0g PGE/m<sup>3</sup>, although it is emphasised that the drilling method was deliberately selected as a reconnaissance tool, and accordingly the results cannot be considered representative.

Adamsfield Track

The northern part of the Adam River Plain, where it is overlain by the Main Creek outwash fan, was drilled along the Adamsfield Track at 100m centres, totalling 16 percussion drillholes for 116.5m. The drilling technique used was not satisfactory due to a variety of ground and technical problems.

Best results obtained range up to 1.4g PGE/m<sup>3</sup>.

Football Hill

The palaeoplacer siliciclastic sedimentary rocks, forming the western flank of Football Hill were tested with 3 percussion drill holes totalling 75.5m; this drilling was also beset with technical problems and a maximum grade of 0.39g PGE/t was obtained in one hole.

Halls Open Cut Area

The recorded PGE mineralised zone in the vicinity of Halls Open Cut was tested with 12 percussion drill holes totalling 461m.

Best results obtained range 9.4 to 33.9g PGE/t.

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1. INTRODUCTION1.1 Location and Access

The Adamsfield district is situated in the north central part of EL 4/85 and is 90km NNW of Hobart in the South West Conservation Area of south central Tasmania.

Access to the southern part of the Licence area is facilitated by the Gordon River Road connecting Maydena and Strathgordon, while the northern part can be accessed by either the Clear Hill Road or the Sawback Range Track, both of which connect with the old Adamsfield Track. The latter track, now inaccessible east of the Sawback Range, provided the original access to Adamsfield and ran west of Tim Shea across the Florentine River.

Previous work by the Company involved the upgrading of a 5km interval of the Adamsfield Track, extending from the Clear Hill Road junction east to the Sawback Range.

West of Football Hill, the Adamsfield Track traverses a swampy area, and this portion of the track has required continual maintenance.

1.2 Topography

The topography is generally of high relief, the mountains having a general north-south trend, and rising to heights of 1200m ASL. The lower plain country occupies altitudes of 390 - 480m ASL, and the eastern margin of Lake Gordon is included in the western part of the Licence area.

The most prominent mountains within the region are The Tumbs (1188 metres), Clear Hill (1198 metres), Sawback Range (700 metres) and Ragged Range (650 metres).

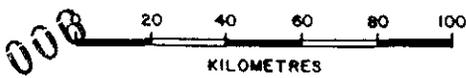
The principal drainage is to the west by means of the Adam and Eve Rivers and the Gordon River.

1.3 Climate and Vegetation

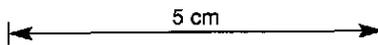
The climate is typical of the West Coast with the cold wet winters. Snowfalls are frequent and annual rainfall is 1.90 metres.

The vegetation typifies the low altitude - high rainfall character of the region, with the most common type being button grass, interspersed with stringy bark (*E.obliqua*) and wet scrub (*Melaleuca*, *Banksia*, etc).

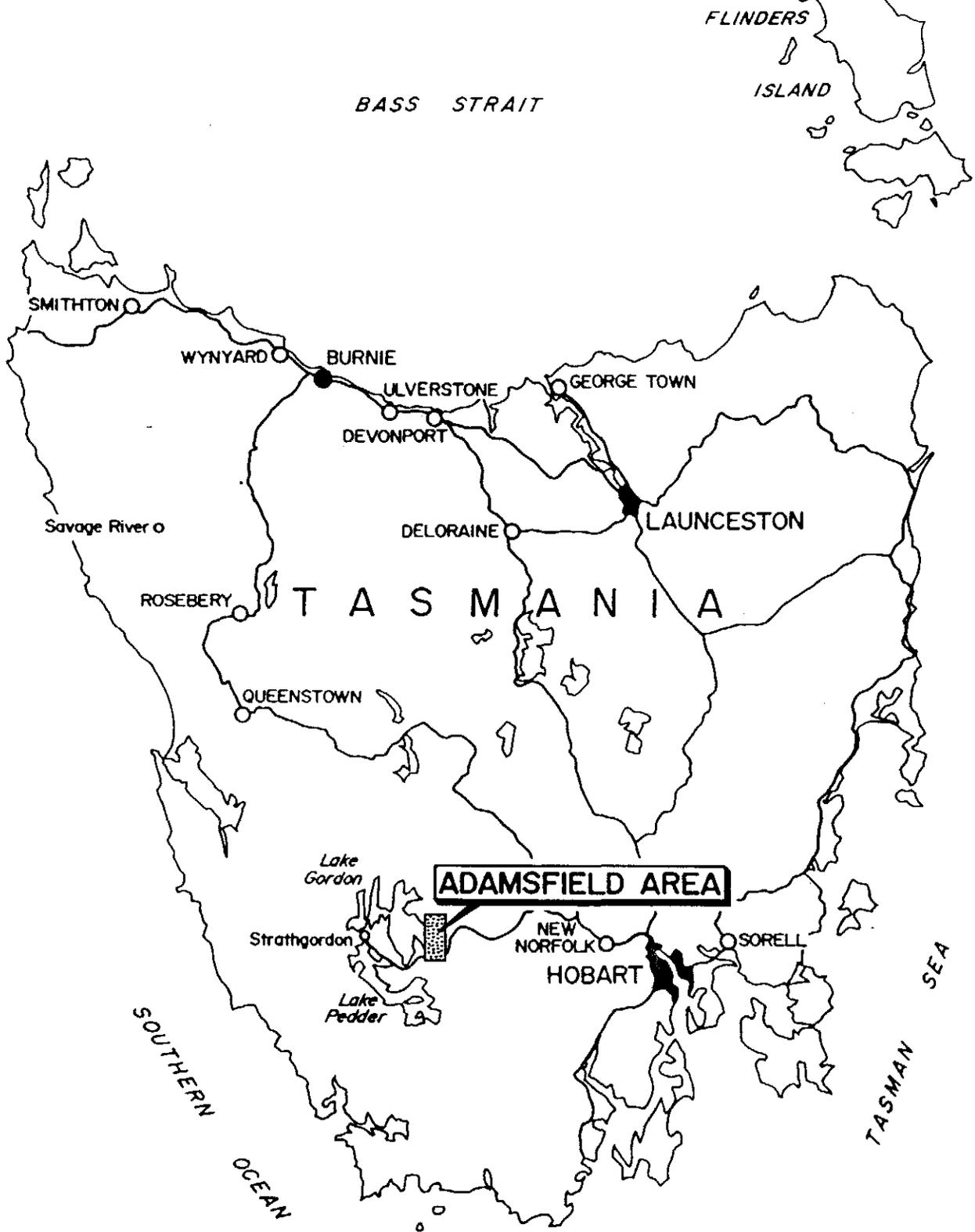
Minor stands of Smithton peppermint (*E.simmondsii*) and gum topped stringybark (*E.delegatensis*) are also present.



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LOCATION OF EXPLORATION LICENCE 4/85

#### 1.4 Tenure

Exploration Licence 4/85, covering an area of 112 sq km, was granted to the Company on the 25th July 1985 for a period of up to 10 years (subject to satisfactory exploration performance and expenditure, and subject to statutory reductions in area after 5 years etc).

At the time of granting, the following constraints applied to the area;

- 1.4.1 Mining Rights in the name of Turner and Morley;
- 1.4.2 Mining Claims 46m/82 (S Morley, 6 ha) and 12m/83 (S Morley, 1 ha).

Although the Licence area is entirely enclosed by the South West Conservation Area (SWCA), the State Government (through the Department of Mines) has consistently encouraged mineral exploration activities in the area.

In 1985, the SWCA (proclaimed 1978) in the vicinity of EL 4/85, was administered by the Forestry Commission (west of the Ragged Range and east of the Sawback Range), and the National Parks and Wildlife Service, (the central zone of the EL, underlain in part by ultramafic rocks).

Since 1980 the SWCA has been included on the register of the National Estate (under the Heritage Commission Act of 1974), and much of this area is currently being proposed for World Heritage listing.

In May 1987 the Federal Government established the Lemnathyme and Southern Forests Commission of Enquiry, due to report its findings (as to the eligibility of these two areas for World Heritage status), by January 1988.

Although the Enquiry will canvas many issues, its terms of reference do not include mineral exploration and mining, and as such these activities have an uncertain future in these parts of Tasmania.

#### 1.5 Previous Exploration and Mining

Alluvial platinum group metals ("osmiridium") were discovered in 1925, and the lode deposit was located in about 1930.

Mining and production of PGE metals from Adamsfield during the period 1925-54 is recorded as 15,394 ounces; this production was derived from both alluvial and hardrock sources between the Ragged and Sawback Ranges.

#### 1.6 Exploration Philosophy

The exploration model adopted to investigate the platinoid potential of the area is one of PGM concentrations in the cumulative layers of a stratiform complex, typified by the Bushveld and Stillwater Complexes.

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While this model may be deficient in specific details, the gross features are considered relevant at this stage, although considerable tectonic remobilisation and consequent dismembering of the Complex has removed and/or distorted original emplacement relationships between the various rock types.

### 1.7 Regional Geology

The ultramafic complexes of Western Tasmania occur intermittently along a major crustal suture. They lie fault bound within Cambrian sediments or at the boundary between Cambrian and Precambrian rock (Williams et al; 1975). Numerous cross cutting transcurrent faults have displaced the ultramafic lenses.

The ultramafics throughout the belt display similar characteristics, indicating an origin from a common parent magma.

It is believed that these complexes were emplaced early in the development of the Tasman Geosyncline, into sediment filled troughs formed within and between regions of disrupted Precambrian basement (Williams, 1976).

The layered ultramafic complexes with which platinum group elements (PGE) are associated are mainly emplaced in Cambrian and Precambrian sequences, and are likely to be middle Cambrian age or older. They are considered as attenuated ultramafic sequences derived from magma chambers that have developed in part by fractional crystallisation of an original high Mg, low Ti or andesitic magma.

### 1.8 Tenement Geology

The Adamsfield Ultramafic Complex is composed mainly of three rock types: serpentinite (and serpentinitised dunite), interlayered serpentinite (and variably serpentinitised dunite) and pyroxenite, and massive pyroxenites; (Corbett (1966) and Brown (1972)).

#### 1.8.1 Serpentinite

The bulk proportion of the northern ultrabasic body consists of serpentinites, both massive and sheared. The latter mainly occurs in the north, while the "tail" along the Sawback Range is mainly massive. Various proportions of relict olivine grains occur in the massive serpentinite. The serpentinites are mainly dark green to matt green, with the sheared zones being more yellowish green.

### 1.8.2 Layered Ultramafics

These rocks from the hills or highermost part of the ultrabasics in the north. They consist of alternating orthopyroxene and serpentinite layers. The central cores of the hills often show a more massive coarse grained pyroxenite up to 30m thick (Brown 1972). The serpentinite layers (after dunite) still contain 20 - 60% olivine and weather greyish green. The pyroxenite layers are generally coarse grained, particularly in the central parts, and weather to a brown colour.

The layers vary in thickness from less than 1cm to 2m, the pyroxenite being the thickest. They appear parallel with the strike direction of the general N-S trend of the ultramafic complex.

### 1.8.3 Massive Pyroxenite

This rock type is confined to a distinct body situated in the middle of the ultrabasic "tail" along the west side of the Sawback Range. It consists mainly of orthopyroxene, fine to very coarse grained, weathered dark brown. The boundary between the enclosed pyroxenite and the surrounding serpentinitised dunite is mainly irregular, but which is apparently a purely tectonic feature.

### 1.8.4 Sedimentary Rocks

The Adamsfield Ultramafic Complex is enclosed by sediments of Palaeozoic age forming the Junee Group (and specifically the Denison Sub Group). The more resistant units in this sub group form the locally distinctive Ragged and Sawback Ranges (eg siliceous and pebbly sandstone (+/- conglomerates) in the Sawback Ranges) and siliceous cobble conglomerate in the Ragged Range. Less prominent sedimentary rocks occur to the west of the ultramafic complex as quartz sandstone (eg Football Hill), and to the east as the Adamsfield Beds (calcareous mudstone, siltstone, sandstone and ultramafic debris). Ultramafic debris is also present in the Football Hill area, and both this sequence and the Adamsfield Beds appear to have shed chromite and PGE in to the local drainage.

## 1.9 Mineralisation

The Adamsfield Ultramafic Complex has been the source (either directly or indirectly), of both alluvial and lode platinum group metals.

Previous work by Ford (1981) has shown the typical platinoid alloy at Adamsfield to be iridosmine (IrOs) but which is commonly referred to as osmiridium.

In addition, the Complex is also host to chromium, nickel and gold mineralisation (MEL investigations). Chromite is an ubiquitous associate of the PGE metals in the alluvial deposits, with lesser gold.

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Nickel sulphides occur in trace amounts (heazlewoodite) in the serpentinited dunites, although early records indicate a shaft sunk on an occurrence of millerite near Halls open cut.

#### 1.10 PGE Analyses

During the year the Company was ultimately successful in finding an analytical technique for all the PGE, and for which the requisite parameters of reliability and application to both alluvial and hardrock samples, could be met.

The method involves fire assay with nickel sulphide collection, inductively coupled plasma formation and reading with a mass spectrometer.

The laboratory is Analytical Services (Aust) Pty Ltd.

## 2. CURRENT EXPLORATION ACTIVITIES

### 2.1 Track Construction

Two new tracks aggregating 3km were completed along the base of the western flank of Football Hill.

Construction of the tracks was done by Hazell Bros. using a Catapillar traxcavtor and a Hitachi 20 tonne excavator during April 1987.

The tracks have been named in honour of the persons who built them (in 17 days) as follows:

Bolton Track - extending north from the Adamsfield Track for approximately 1 km.

Marrriott Track - extending south from the Adamsfield Track for approximately 2 km.

Details are shown on Figure 2.

### 2.2 Drilling

#### 2.2.1 Adam River - Lanham Creek Plain

The contiguous alluvial plains of the Adam River and Lanham Creek (and their tributaries), were hand auger drilled on a 500 x 100m grid, totalling 8 kms of traverses, as follows:

Adam River Plain - 5 km of W-E traverses (lines A, B, C, D and J) for 51 holes totalling 164.3m.

Lanham Creek Plain - 3 km of WE and NS traverses (lines E, F, G, H and I) for 32 holes totalling 57.6m.

The combined total is 83 holes for 221.9m (average 2.7m depth). (Collar locations are shown on Figure 2, and drill hole logs are attached as Appendix 1).

#### 2.2.2 Adamsfield Track

A total of 16 percussion drill holes (ATP 1-16) aggregating 116.5m, were drilled at 100m intervals over a 1.5 km section of the Adamsfield Track west from the western foot of Football Hill.

Numerous problems were met using the open hole method, and inter sample contamination was considerable. Consequently, the sample intervals ranged from 2 to 10m, and as such are unintentional composites. Collection of these samples was done in a callibrated steel bucket.

Collar locations are shown on Figure 2, and drill hole logs are attached as Appendix 2.

### 2.2.3 Football Hill

A total of 3 percussion drill holes (ATP 17, 18 and 19) aggregating 75.5m, were drilled on the west flank of Football Hill during the month; ATP-18 and 19 were abandoned at 18.5 and 37m respectively due to lost circulation and rig breakdown. The objective of each hole was to locate specific palaeoplacer beds in the Palaeozoic sediments forming Football Hill. The top 4m of ATP-17 consisted of eluvium and was treated as an alluvial sample.

Samples were collected in a cyclone at intervals of 1m, and initial analyses for Au and PGE were done on 3m composite samples; hole positions are shown on Figure 2 and logs are attached as Appendix 3.

### 2.2.4 Halls Open Cut Area

A total of 12 percussion holes (AHP 1-12) aggregating 461m, were drilled along the zone ("reef") of primary PGE mineralisation located on the western flank of the Sawback-Packers Spur range; (collar details shown on Figure 3, drill hole logs are attached as Appendix 4, and drilling report as Appendix 5).

Samples were collected at 1m intervals, and combined into 3m composites for initial Au and PGE analyses by Comlabs/Analytical Services.

The southern block (Halls Open Cut), where most of the previous mining appears to have taken place, was tested by holes AHP-1, 2, 3, 4, 5, 6 and 8 totalling 330m, while the northern block was tested by AHP 7, 9, 10, 11 and 12 (132m). The objective of the drilling program was to drill down, or at a very low angle to the reef horizon, so as to optimise the chances of intersecting what appears to be a highly erratic style of PGE mineralisation.

## 2.3 Bulk Sampling

A total of 30 bulk samples (40 kg each) were collected from 10 excavator pits along the eastern margin of the Adam River and Lanham Creek plains. Access to these pit sites was via Boltons and Marriotts tracks (extending over 3 km). Lithologies met in these pits included all clastic sizes between clay and cobble conglomerate, and the samples have been sent to AMMTEC in Perth for processing involving screening/tabling/heavy liquid separation/screening/magnetic separation. The location of these pits are shown on Figure 2.

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2.4 Archaeological Surveys

Acting on advice given by the Department of Mines (in turn from the Interdepartmental Working Group Committee), the Company engaged the services of a contract archaeologist (B Prince) to conduct a preliminary archaeological survey of the general Adamsfield district, ranging from the western flank of Football Hill, to Halls open cut workings in the Sawback Range.

During the course of this work, contractor Prince was accompanied by D West of the Tasmanian Aboriginal Centre. The Company was not informed of the involvement of D West until the completion of the survey.

Detailing of the findings made by Prince and West are contained in Appendix 6.

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### 3. INTERPRETATION OF EXPLORATION RESULTS

#### 3.1 Alluvial Deposits of Platinoids

##### 3.1.1 Location

The low lying terrain situated between the Ragged Range the southern end of Clear Hill, and Football Hill (and its northern extension), is a large swampy plain, measuring 5 x 2 km. To the north of the Adamsfield Track, present drainage is effected by Cain, Lanham and Main Creeks, while to the south, drainage of the Adam River Plain is effected by the Adams River and its main tributaries (Barratt, Scanlon, Lumsden and Worsley Creeks). (See Figure 2)

##### 3.1.2 Previous Exploration/Mining

The gross area bounded by Main Creek in the north, the west flank of Football Hill in the east, and the east flank of the Ragged Range, was successfully prospected for eluvial and alluvial PGE (and minor gold) between 1925 (discovery in Adams River, below the falls) and about 1940.

In addition to alluvial mining in all the west draining creeks from Football Hill, the eastern edge of the Adam River Plain was subjected to extensive mining during this time, with lesser mining in Barrett, Scanlon, Lumsden and Worsley Creeks.

##### 3.1.3 Lithologies

Recent drilling of the area between Cain Creek and Lumsden Creek (ie the "Adam River Plain"), has shown this area to consist of a fluvial sequence of sediments possibly interspersed with lacustrine sediments.

The main lithologies encountered consist of peat, clays, silts, sands and cobble/boulder gravels; the usual hybrid variations are also present, and on the attached log sheets, a sandy gravel is probably equivalent to a gravelly sand etc.

The clays show the greatest range in colours, and include white, gray, green, yellow, brown and orange, with varying consistency and PGE content.

Brown clays are probably humic (and associated with peat), whereas the orange, (bright) green and yellow clays, appear to have an ultramafic component, and may contain PGE in addition to chromite.

Pale green and white clays were difficult to penetrate with the hand auger, and appear to be flood plain (? relict lacustrine) deposits. Drill hole logs are attached as Appendix 1.

3.1.4 Main Creek and Related Deposits  
(North of the Adamsfield Track)

Section G: 3 holes (G1, 2 and 3) across Cain Creek;  
2 holes reached a sandstone basement (0.3 -  
1.5 km deep), 1 hole abandoned in gravel.  
Chromite seen in 1 hole.  
Result suggests that present Cain Creek  
valley is not particularly prospective for  
PGE. (Refer Figure 4)

Section F: 9 holes (F5-21) across Lanham Creek;  
2 holes reached a sandstone basement (2.0 -  
3.7m deep).  
2 holes abandoned in clay, 5 in gravel.  
PGE and chromite seen in 4 holes (only 1 may  
be a basement gutter). (Refer Figure 5)

Section E-1: 3 holes (E15-19) across Main Creek;  
1 hole reached a sandstone basement (4.5m  
deep), 2 holes abandoned in gravel.  
PGE and chromite seen in 1 hole (not a  
basement gutter). (Refer Figure 6)

Section I: 3 holes (I1-3) across Main Creek;  
All 3 holes abandoned in gravel.  
Chromite seen in 1 hole. (Refer Figure 7)

Section H: 3 holes (H1-3) across Main Creek;  
All 3 holes abandoned in gravel.  
PGE and chromite seen in 2 holes (both false  
bottoms). (Refer Figure 8)

Sections E-1, I and H were aligned north-south to test for  
both the PGE potential of the sediments and the presence of  
old channels; a possible precursor to either Main Creek, or  
the eastern fork of Lanham Creek may exist (H2 - I2 - E17),  
although a braided stream depositional environment may also  
be anticipated on the Main Creek outwash fan (west of  
Football Hill).

Section E-2: 11 holes (E1-27) across Lanham and Main  
Creek;  
1 hole (E27) reached a limestone basement  
(3.2m deep), 8 holes abandoned in gravel, 2  
in clay.  
PGE and chromite seen in 4 holes (all false  
bottoms). (Refer Figure 9) - Miss pg 6

Adamsfield Track Section: 18 holes (ATP 1-18), of which  
ATP1-16 were designed to test the  
Main Creek (and ? other underlying)  
deposits. (Refer Figure 10)  
16 holes reached limestone (Gordon  
Limestone) basement, ranging 1.9 to  
11m in depth.

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PGE and chromite in 2 holes (both false bottoms).

The western end of the traverse (ATP 9, and ATP 11-16) showed the presence of extensive alluvial mining. The presence of several old channels is inferred (ATP 11, 6, and 3).

### 3.1.5 Adam River and Related Deposits (South of the Adamsfield Track)

- Section A: 12 holes, (A1-23) across the Adam River Plain;  
8 holes reached a sandstone and limestone basement (2.3 to 4.5m deep),  
4 holes abandoned in gravel.  
PGE and chromite seen in 3 holes (all in basement gutters). (Refer Figure 11)
- Section B: 13 holes (B0-23) across the Adam River Plain;  
12 holes reached sandstone (minor limestone) basement (3.9 to 9.2m deep);  
1 hole abandoned in gravel.  
PGE and chromite seen in 8 holes (predominantly in basement gutter deposits). (Refer Figure 12)
- Section C: 11 holes (C1-23) across the Adam River Plain;  
2 holes reached a limestone/sandstone basement (1.3 to 3m deep);  
3 holes abandoned in gravel, 6 in clay.  
PGE and chromite recorded in 7 holes (in predominantly false bottom deposits). (Refer Figure 13)
- Section D: 9 holes (D1-15) across the Adam River Plain;  
all 9 holes abandoned before basement (5 in gravel, 4 in clay). (Refer Figure 14).  
PGE and chromite seen in 1 hole (D11, which appears to have tested a relict river terrace deposit).  
Extensive old alluvial workings from D13 eastward to Football Hill.
- Section J: 5 holes (J0-9) across the Adam River Plain;  
all 5 holes abandoned before basement (2 in gravel, 3 in clay).  
PGE and chromite seen in 2 holes (false bottoms). (Refer Figure 15)

### 3.1.6 Comments

The overall area covered by the reconnaissance hand auger drilling is approximately 3.5 km by 1 km, on lines 4-500m apart, with holes at 100m intervals.

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Relevant statistical information on the drilling shows:-

- (i) 68% of holes were unbottomed
- (ii) 37% of holes contained visible PGE and chromite
- (iii) 19% of holes contained visible PGE and were unbottomed
- (ie) approx. half of the holes with visible PGE did not reach basement).

This data is most encouraging for a reconnaissance program, particularly in view of the size of the alluvial areas, the spacing of the liens and holes, and the fact that coarse clastic sediments were not sampled.

This reconnaissance program was not intended to provide accurate grade data for the following reasons:-

- (i) the small size (75mm) of the drill holes,
- (ii) the broad spacing of the drill holes, and
- (iii) the fact that 68% of holes were unbottomed (predominantly in gravel horizons).

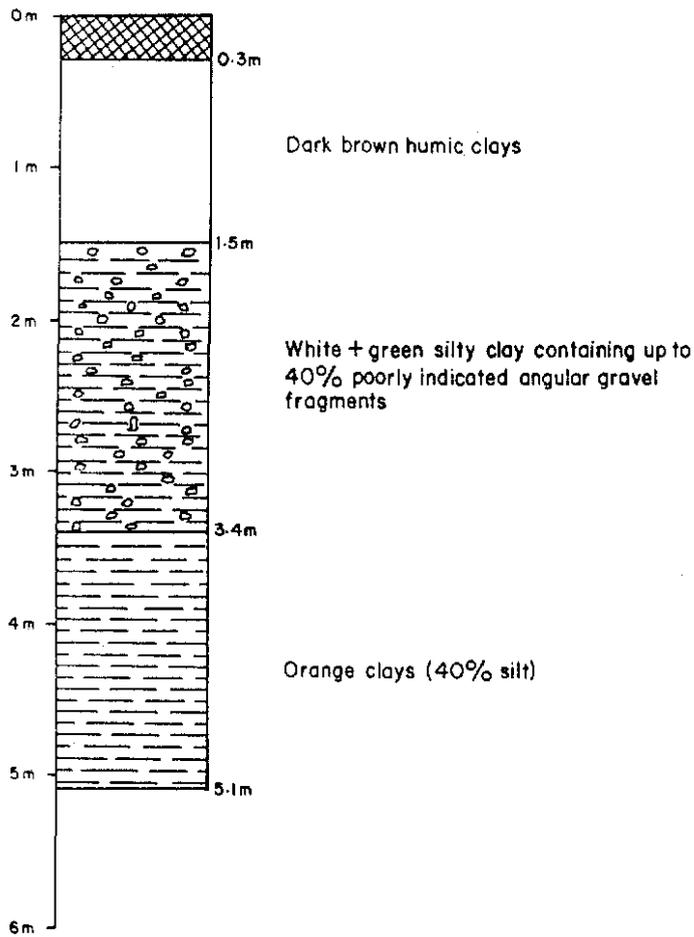
The limestone basement appears as outliers on the sandstone basement (? Football Hill Sandstone), and the cherty limestone (? Karmberg lithocorrelate) seen on Section A and B appear to have influenced channel development.

The present Adam River flood plain ranges from 150m wide on Section D and J, to 600m on Section B, and 900m on Section A.

Although the hand auger drilling did not always reach basement, several fluvial channels can be recognised/inferred, as shown on Figure 2. These channels suggest the ancient Adam River flood plain ranged from >500m to >1000m between Sections J and A, and that the drainage was more dynamic than at present; the extensive cover of clays (eg Sections A and B) reflects the present, less energetic, nature of the drainage, and the area between Section C and the Adamsfield Track may represent a drained lake.

Assessment of the result of Adamsfield Track drilling should incorporate the following observations:-

- (i) The extensive area of previous alluvial mining (particularly in the lower western end of the traverse in the vicinity of the Adam River - Lanham Creek confluence);
- (ii) The overbank nature of most of the sediments encountered in holes ATP 1 to 7, and particularly;
- (iii) The unsatisfactory method of drilling and of consequent sample collection.



CO-ORD		SAMPLE NUMBER	% CHROMITE	Results in , X = below detection limit							
FROM	TO			Pt	Pd	Ru	Rh	Ir	Os	Au	S.G.
0.3	1.5	311908	-								
1.5	3.4	311909	-								
3.4	5.1	311910	-								

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**LEGEND**

- Peat, vegetated layer (Ao)
- Scattered chromite
- Mud, dark humic clays
- Sand
- Clay
- Gravel
- Chromite layers
- Basement rock



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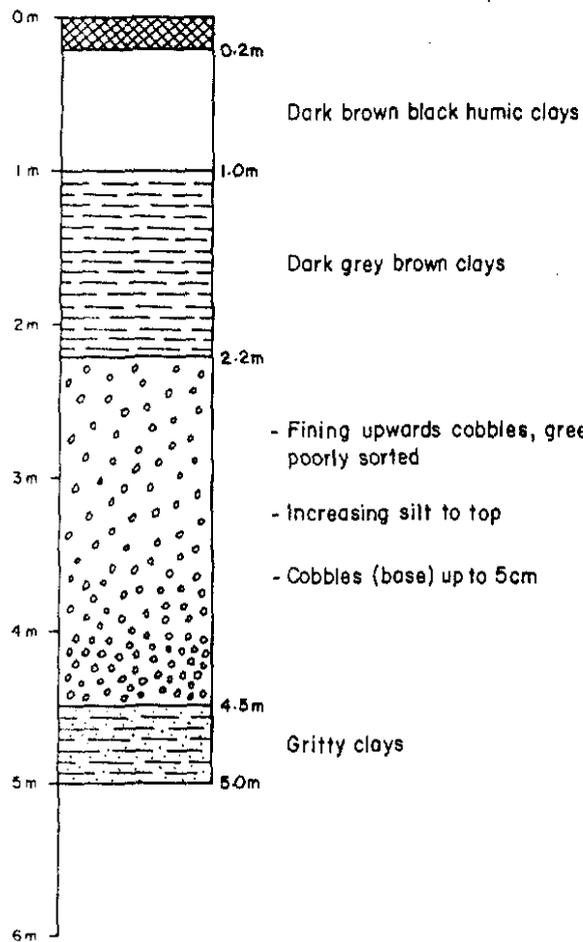
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EXPLORATION LICENCE 4/85

**SECTION OF BULK SAMPLE PIT  
ABS - I**

250mS on Marriott track (Auger line A)

DATE MAY 1987  
SCALE VERT. 1:50

FIGURE 16  
DRG. NO. 87-281



Dark brown black humic clays

Dark grey brown clays

- Fining upwards cobbles, green grey, poorly sorted

- Increasing silt to top

- Cobbles (base) up to 5cm

Gritty clays

CO-ORD		SAMPLE NUMBER	%CHROMITE	Results in , X = below detection limit							
FROM	TO			Pt	Pd	Ru	Rh	Ir	Os	Au	S.G.
1.0	2.2	311911	-								
2.2	4.5	311912	20								
4.5	5.0	311913	-								

019

860020

**LEGEND**

- Peat, vegetated layer (Ao)
- Scattered chromite
- Mud, dark humic clays
- Sand
- Clay
- Gravel
- Chromite layers
- Basement rock



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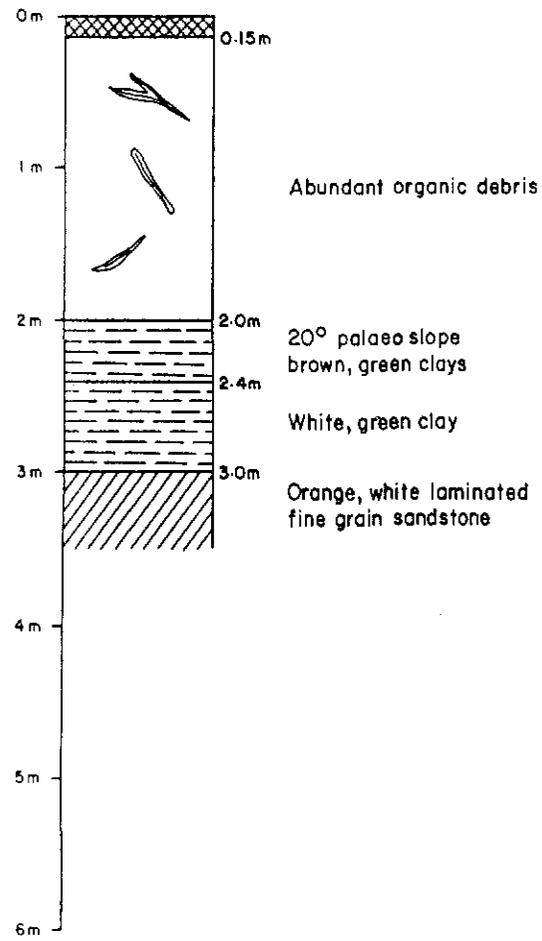
**SECTION OF BULK SAMPLE PIT  
ABS - 2  
550mS on the Marriot track**

DATE MAY 1987  
SCALE VERT. 1:50

FIGURE 17  
DRG NO. 87 282

CO-ORD		SAMPLE NUMBER	Results in , X = below detection limit								
FROM	TO		%CHROMITE	Pt	Pd	Ru	Rh	Ir	Os	Au	S.G
2.0	2.4	311914	-								
2.4	3.0	311915	-								

020



860021

**LEGEND**

-  Peat, vegetated layer (Ao)
-  Scattered chromite
-  Mud, dark humic clays
-  Sand
-  Clay
-  Gravel
-  Chromite layers
-  Basement rock



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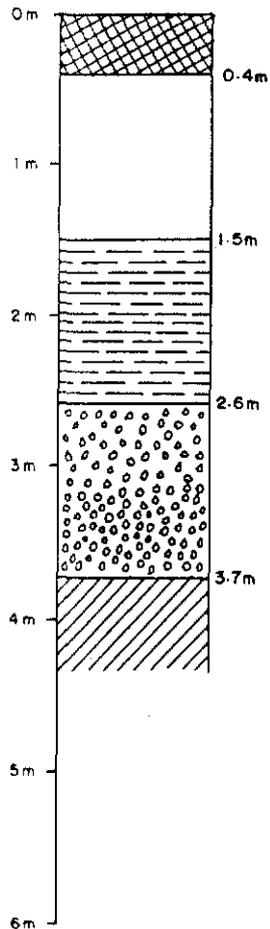
ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85

**SECTION OF BULK SAMPLE PIT  
ABS-3**

800mS on Marriott track

DATE MAY 1987  
SCALE VERT. 1:50

FIGURE 18  
DRG. NO. 87-283



Light brown sandy clays

Green-grey gravels grading to cobbles (10 cm)  
well rounded qtz, sandstone fragments

Results in , X = below detection limit

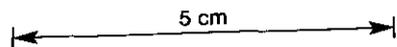
CO-ORD		SAMPLE NUMBER	%CHROMITE	Pt	Pd	Ru	Rh	Ir	Os	Au	S.G.
FROM	TO										
0.4	1.5	311916	-								
1.5	2.6	311917	-								
2.6	3.7	311918	30								

021

860022

**LEGEND**

- Peat, vegetated layer (Ao)
- Scattered chromite
- Mud, dark humic clays
- Sand
- Clay
- Gravel
- Chromite layers
- Basement rock

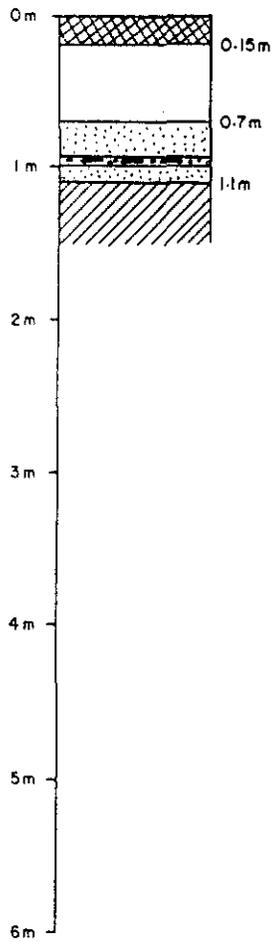


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**SECTION OF BULK SAMPLE PIT  
ABS-4**

15mN of Auger line C  
1050m on Marriott track



Pale brown sands, well sorted  
Gravel layer (0.94 - 1.0m) 10% chromite  
Pale green sandstone

Results in , X = below detection limit

CO-ORD		SAMPLE NUMBER	% CHROMITE	Pt	Pd	Ru	Rh	Ir	Os	Au	S.G.
FROM	TO										
0.15	0.7	311919	-								
0.7	1.1	311920	-								
0.94	1.0	311921	10								

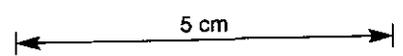
in gravel layer

0222

860023

**LEGEND**

- Peat, vegetated layer (Ao)
- Scattered chromite
- Mud, dark humic clays
- Sand
- Clay
- Gravel
- Chromite layers
- Basement rock



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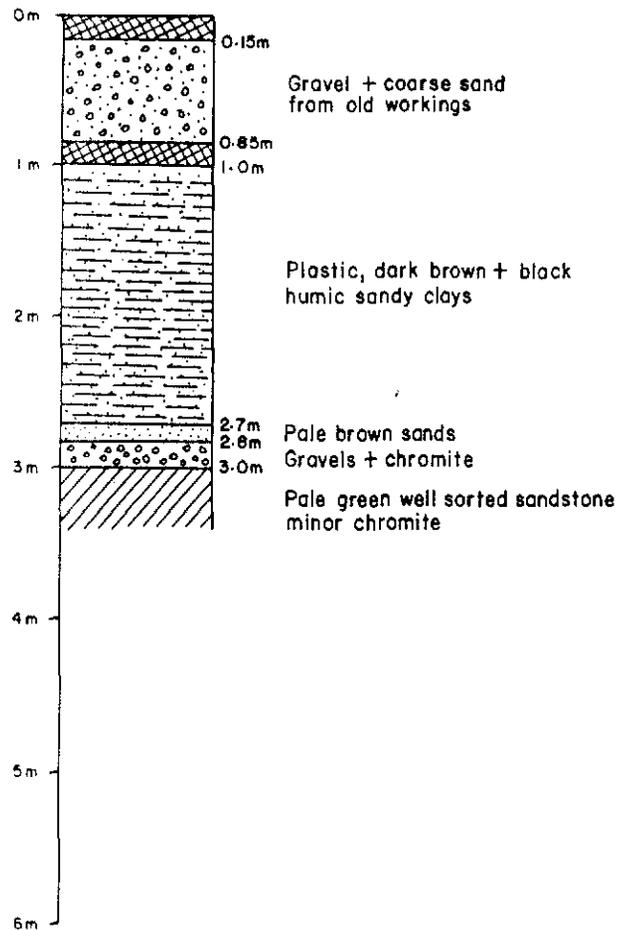
ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85

**SECTION OF BULK SAMPLE PIT  
ABS - 5**

1350 m on Marriott track

DATE MAY 1987  
SCALE VERT. 1:50

FIGURE 20  
DRG. NO. 87-285



CO-ORD		SAMPLE NUMBER	% CHROMITE	Results in , X = below detection limit							
FROM	TO			Pt	Pd	Ru	Rh	Ir	Os	Au	SG
0.15	0.85	311922	-								
1.0	2.7	311923	-								
2.7	2.8	311924	-								
2.8	3.0	311925	10								
3.0			5								

023

860024

**LEGEND**

- Peat, vegetated layer (Ao)
- Scattered chromite
- Mud, dark humic clays
- Sand
- Clay
- Gravel
- Chromite layers
- Basement rock



**METALS EXPLORATION LIMITED**

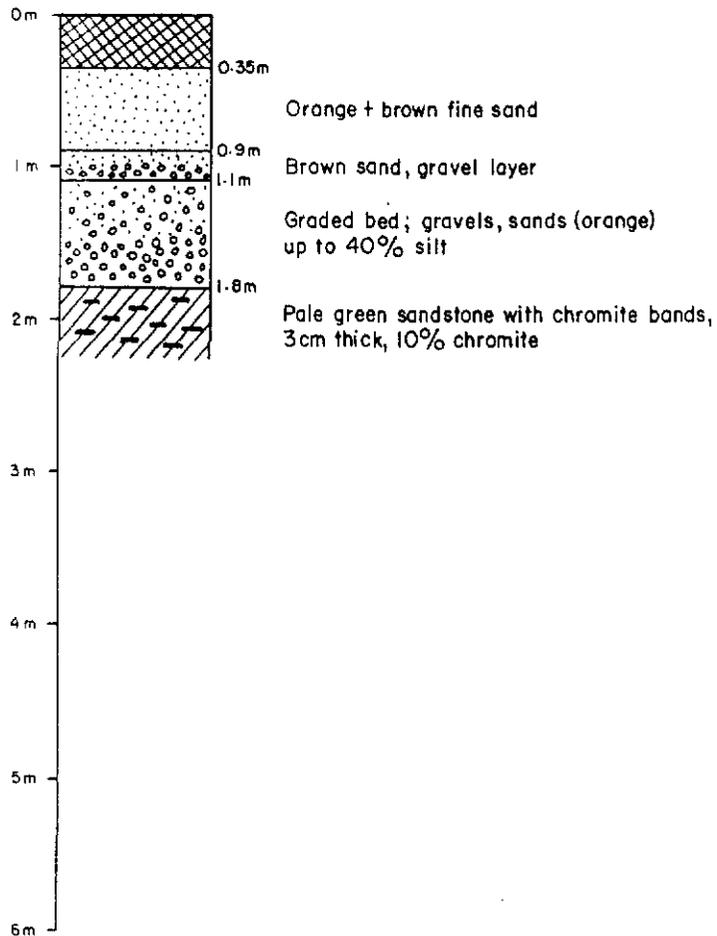
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EXPLORATION LICENCE 4/85

**SECTION OF BULK SAMPLE PIT  
ABS - 6**

1650m on Marriott track

DATE MAY 1987  
SCALE VERT. 1:50

FIGURE 21  
DRG. NO. 87-286



Results in , X = below detection limit

CO-ORD		SAMPLE NUMBER	% CHROMITE	Pt	Pd	Ru	Rh	Ir	Os	Au	S.G.
FROM	TO										
0.35	0.9	311926	-								
0.9	1.1	311927	5								
1.1	1.8	311928	10								
1.8		311907	10								

02A

860025

**LEGEND**

- Peat, vegetated layer (Ao)
- Scattered chromite
- Mud, dark humic clays
- Sand
- Clay
- Gravel
- Chromite layers
- Basement rock



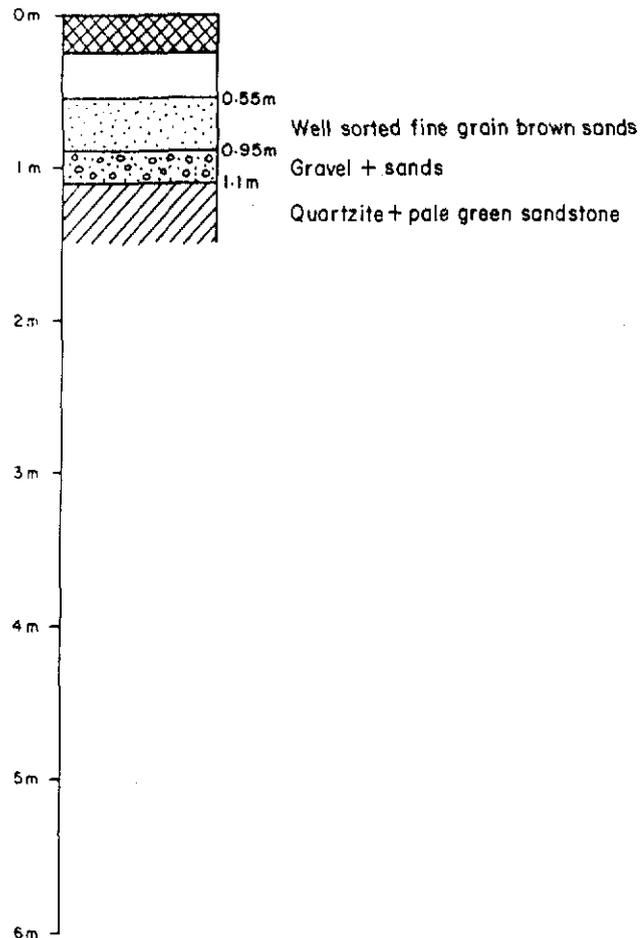
**METALS EXPLORATION LIMITED**

ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85

**SECTION OF BULK SAMPLE PIT  
ABS-7**  
1950m on Marriott track

DATE MAY 1987  
SCALE VERT. 1:50

FIGURE 22  
DRG. NO. 87-287



Results in , X = below detection limit

CO-ORD		SAMPLE NUMBER	% CHROMITE	Pt	Pd	Ru	Rh	Ir	Os	Au	S.G.
FROM	TO										
0.55	0.95	311929	-								
0.95	1.1	311930	-								

**LEGEND**

- |  |                            |  |                    |
|--|----------------------------|--|--------------------|
|  | Peat, vegetated layer (Ao) |  | Scattered chromite |
|  | Mud, dark humic clays      |  | Sand               |
|  | Clay                       |  | Gravel             |
|  | Chromite layers            |  | Basement rock      |



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**SECTION OF BULK SAMPLE PIT  
ABS - 8**

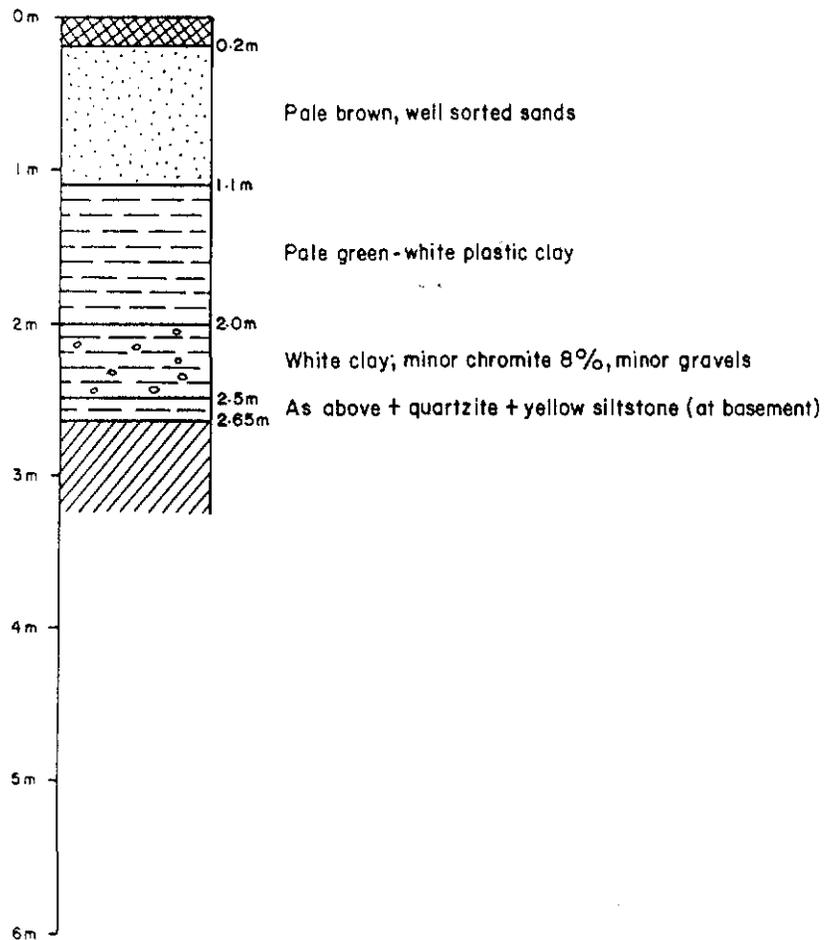
810mN on Bolton's track

DATE MAY 1987  
SCALE VERT. 1:50

FIGURE 23  
DRG. NO. 87-288

025

860026



Results in , X = below detection limit

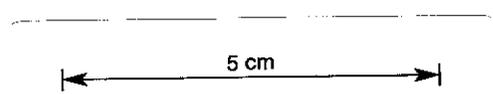
CO-ORD		SAMPLE NUMBER	% CHROMITE	Pt	Pd	Ru	Rh	Ir	Os	Au	S.G.
FROM	TO										
0.2	1.1	311931	-								
1.1	2.0	311932	-								
2.0	2.5	311933	8								
2.5	2.65	311934	-								

040

860027

**LEGEND**

- |   |                            |   |                    |
|---|----------------------------|---|--------------------|
|  | Peat, vegetated layer (Ao) |  | Scattered chromite |
|  | Mud, dark humic clays      |  | Sand               |
|  | Clay                       |  | Gravel             |
|  | Chromite layers            |  | Basement rock      |



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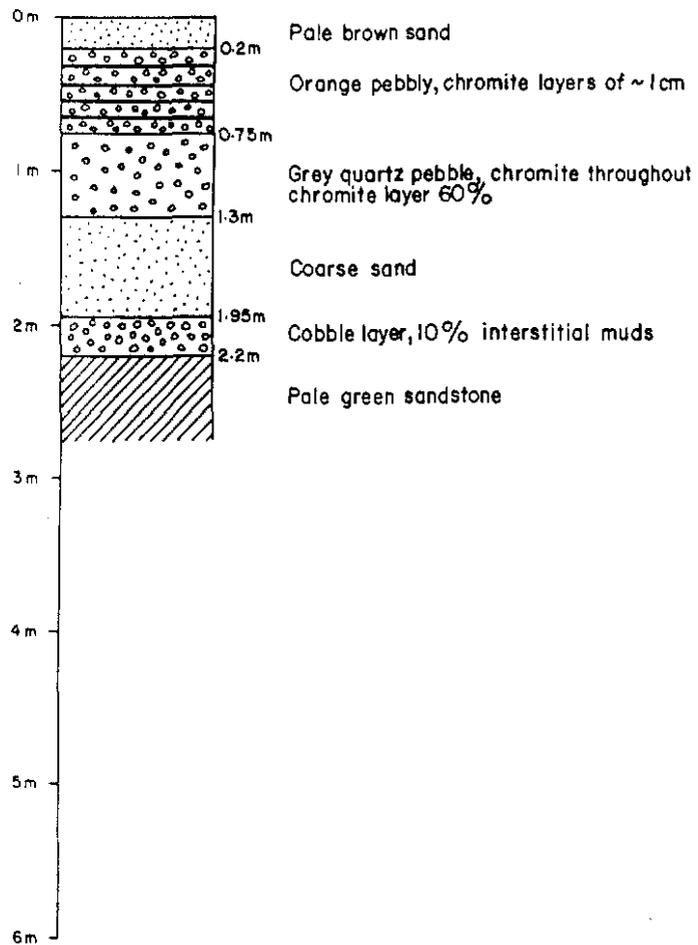
ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85

**SECTION OF BULK SAMPLE PIT  
ABS - 9**

610mN on Bolton's track

DATE MAY 1987  
SCALE VERT. 1:50

FIGURE 24  
DRG. NO. 87-289



Results in , X = below detection limit

CO-ORD		SAMPLE NUMBER	% CHROMITE	Pt	Pd	Ru	Rh	Ir	Os	Au	S.G.
FROM	TO										
0.2	0.75	311935	80								
0.75	1.3		60								
1.3	1.95	311936	10								
1.95	2.2	311937									

087

860028

**LEGEND**

-  Peat, vegetated layer (Ao)
-  Scattered chromite
-  Mud, dark humic clays
-  Sand
-  Clay
-  Gravel
-  Chromite layers
-  Basement rock

5 cm



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**SECTION OF BULK SAMPLE PIT  
ABS - 10**

260mN on Bolton's track

DATE MAY 1987  
SCALE VERT. 1:50

FIGURE 25  
DRG. NO. 87-290

028

Given these qualifications, the only result which may be "significant", and which may represent a pre-mining grade of some of this area, was:

ATP-10, 0-3m (3m) @ 1.6 g (Ru Ir Os)/m<sup>3</sup>

### 3.1.7 Bulk Samples

Lithological details for these 10 pits (locations shown on Figure 2) are depicted on graphic logs in Figures 16 to 25.

No Au or PGE assay results are available at present.

## 3.2 HARD ROCK DEPOSITS OF PLATINOIDS

### 3.2.1 Primary Platinoid Mineralisation

#### 3.2.1.1 Location

Open hole drilling in and around Halls open cut was done with the deliberate intention of drilling, (where possible), down the old "reef" position; (use of the term open cut is misleading as Hall never utilised the open pit to mine the lode, rather it was dug to enable inspection of the lode in the 1960's).

Inspection of the floor of the open cut suggested the reef/lode position to be a discrete sheared zone 1 to 2m wide, within the generally deformed serpentinites. Old records indicate a width of lode of 2 to 3m, and previous drilling by the Company in 1986 had located a down hole interval of 3.55m (approx. 1.5m true width) with anomalous iridium values.

#### 3.2.1.2 Lithologies and Alteration

The main lithologies seen in the drill holes were serpentinitised dunite, talc carbonate rock, and sediments of the Adamsfield Beds (shales, siltstones).

Steatitisation and carbonation of the serpentinites ranges from slight to total, with locally abundant siderite ("jasper"); minor asbestos was seen and some of the holes encountered a "clay" (which is interpreted to be a calaclasite composed of brucite-antigorite-talc assemblage).

Chromite was very common in the holes, but generally only in trace to minor amounts; "osmiridium" was seen in several holes.

Cross sections of 11 of the 12 holes (AHP-1, 3-12) are shown on Figures 26 to 35, and the drill hole logs are attached as Appendix 4.



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**HALLS OPEN PIT AREA**

**Sections of drill holes AHP 1 to 12**

(Figures 26 to 35)

**LEGEND**



Mullock backfill



Serpentinite (ex Dunite)



Talc-carbonate rock



Shales/siltstone (Adamsfield Beds)



Moderate talc-carbonate alteration



Silicification

min/ab, Cr, Sid, Py

Minor/abundant, Chromite, Siderite, Pyrite

asb, jas

Asbestos, jasper

\*Os

Visible osmiridium

030

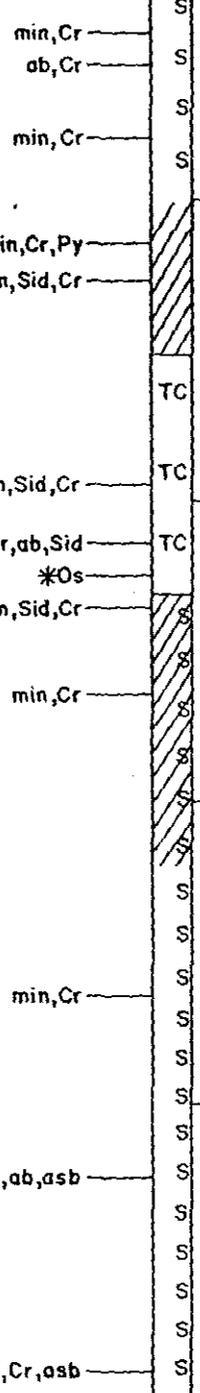
860031

410m

AHP I

400m

390m



Results in ppb, X = below detection limit

Pt	Pd	Ru	Rh	Ir	Os
2.0	2.0	11	0.5	3.0	4
34	45	46	35	1.0	1.0
14	4.0	11	2.0	25	36
16	8.0	5.5	1.5	1.5	X
13	3.0	8.5	2.0	1.0	2
2.0	1.0	8.0	0.5	2.5	2
1.5	0.5	8.5	1.0	1.5	X
1.5	4.0	7.0	1.5	5.0	X
2.0	3.0	12	0.5	2.0	2
1.5	3.5	9.5	1.0	3.5	4
250	7.0	1900	61	14000	18000
20	6.5	15	3.0	70	130
13	15	24	1.5	75	110
34	3.0	200	8.0	1400	1600
18	7.0	9.5	2.0	3.5	4
14	6.5	36	2.5	2.5	2
13	16	6.0	2.5	1.0	2
30	3.5	6.0	2.5	1.5	2
11	8.0	7.5	4.5	1.0	X
26	10	12	15	1.5	X
11	9.5	4.5	1.0	0.5	2
8.5	11	X	2.5	3.0	X
17	12	6.5	2.0	11	16
4.0	9.0	12	1.0	2.5	X
5.0	9.0	X	2.0	1.5	6
2.0	2.5	15	1.0	3.5	4
4.5	0.5	5.0	0.5	2.0	2
X	X	8.5	X	6.5	8
1.0	2.0	26	X	24	40
2.0	17	3.5	0.5	39	26
1.0	11	5.0	2.5	20	26
7.5	11	26	1.0	14	14
1.5	10	24	0.5	20	18

EOH 50m

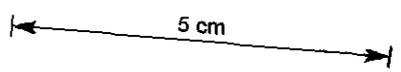


Figure 26  
Scale 1:250  
Date April 87  
Drg. No. 87-251





033

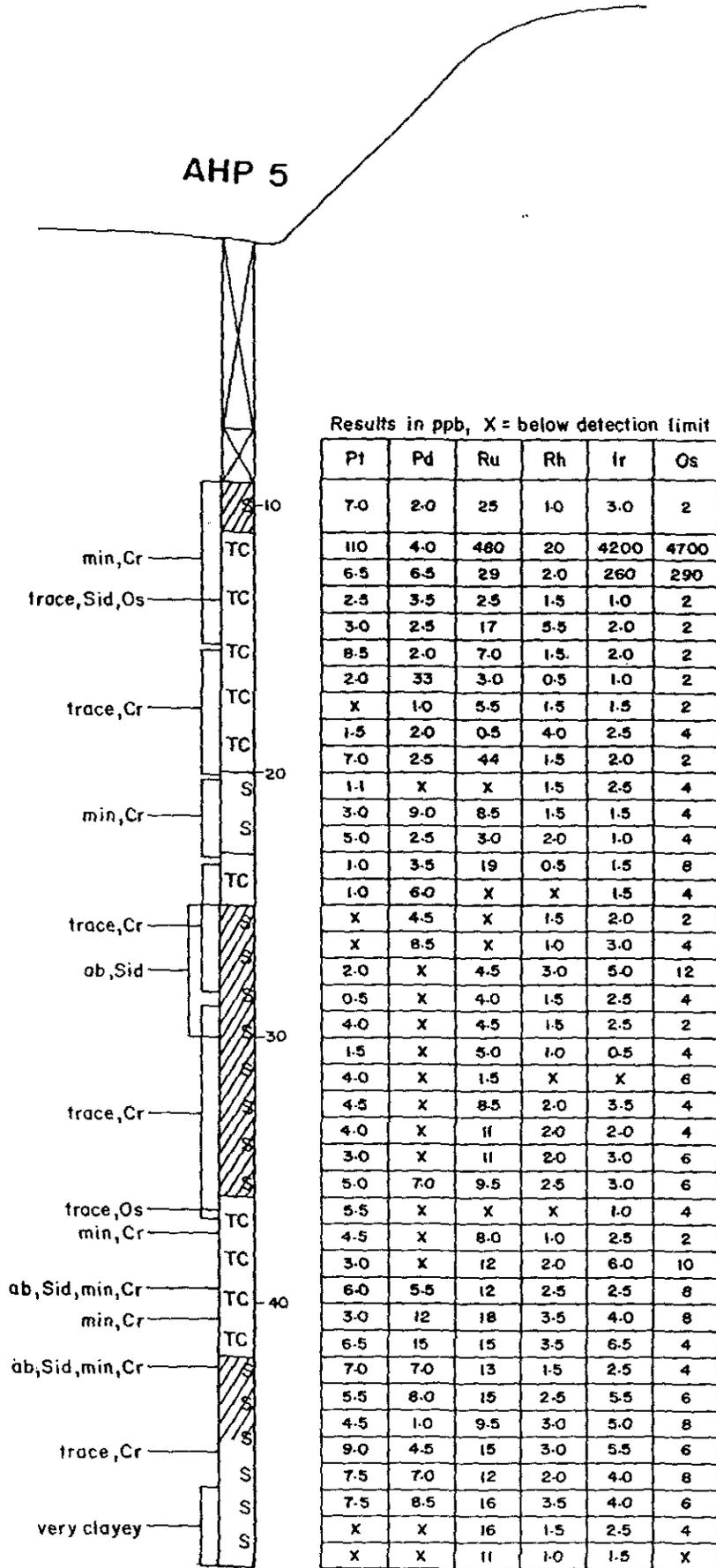
860034

420m

AHP 5

410m

400m



Results in ppb, X = below detection limit

P1	Pd	Ru	Rh	lr	Os
7.0	2.0	25	1.0	3.0	2
110	4.0	480	20	4200	4700
6.5	6.5	29	2.0	260	290
2.5	3.5	25	1.5	1.0	2
3.0	2.5	17	5.5	2.0	2
8.5	2.0	7.0	1.5	2.0	2
2.0	33	3.0	0.5	1.0	2
X	1.0	5.5	1.5	1.5	2
1.5	2.0	0.5	4.0	2.5	4
7.0	2.5	44	1.5	2.0	2
1.1	X	X	1.5	2.5	4
3.0	9.0	8.5	1.5	1.5	4
5.0	2.5	3.0	2.0	1.0	4
1.0	3.5	19	0.5	1.5	8
1.0	6.0	X	X	1.5	4
X	4.5	X	1.5	2.0	2
X	8.5	X	1.0	3.0	4
2.0	X	4.5	3.0	5.0	12
0.5	X	4.0	1.5	2.5	4
4.0	X	4.5	1.5	2.5	2
1.5	X	5.0	1.0	0.5	4
4.0	X	1.5	X	X	6
4.5	X	8.5	2.0	3.5	4
4.0	X	11	2.0	2.0	4
3.0	X	11	2.0	3.0	6
5.0	7.0	9.5	2.5	3.0	6
5.5	X	X	X	1.0	4
4.5	X	8.0	1.0	2.5	2
3.0	X	12	2.0	6.0	10
6.0	5.5	12	2.5	2.5	8
3.0	12	18	3.5	4.0	8
6.5	15	15	3.5	6.5	4
7.0	7.0	13	1.5	2.5	4
5.5	8.0	15	2.5	5.5	6
4.5	1.0	9.5	3.0	5.0	8
9.0	4.5	15	3.0	5.5	6
7.5	7.0	12	2.0	4.0	8
7.5	8.5	16	3.5	4.0	6
X	X	16	1.5	2.5	4
X	X	11	1.0	1.5	X

EOH 50m

5 cm

Figure 29  
 Scale 1:250  
 Date April 87  
 Drg No 87-254

034

860035

420m

AHP 6

410m

400m

Results in ppb, X = below detection limit

Pt	Pd	Ru	Rh	Ir	Os
X	0.5	6.5	2.0	1.0	4
6.5	X	8.5	3.0	1.5	X
5.0	X	26	3.5	2.0	2
X	X	9.5	1.0	27	37
1.0	X	5.5	1.5	1.5	2
X	X	4.5	X	X	2
X	X	6.5	X	X	X
X	X	7.0	X	0.5	X
5.5	2.5	11	2.5	10	13
2.5	X	6.5	3.5	X	X
150	4.0	1000	3.8	6600	3400
5.0	4.5	12	3.0	40	34
12	8.0	27	5.0	130	160
8.5	4.0	14	3.5	6.0	10
8.0	1.5	11	3.5	4.0	6
6.0	3.5	14	5.0	3.5	6
2.5	4.5	5.5	1.0	2.5	6
3.5	6.5	2.0	1.0	3.5	4
4.0	6.0	3.0	0.5	3.0	4
2.5	1.0	5.0	0.5	1.5	2
2.0	1.0	6.5	1.0	2.5	4
1.0	X	4.5	1.0	2.0	2
1.5	1.5	7.0	1.0	3.0	2
1.0	1.0	7.5	1.0	2.0	2
1.0	0.5	6.0	1.0	2.0	X
2.0	1.0	7.5	1.5	5.0	6

S 10  
S  
min,Cr

TC  
min,Cr

possible Os?

trace, Sid

min,Cr

ab, Sid

min,Cr

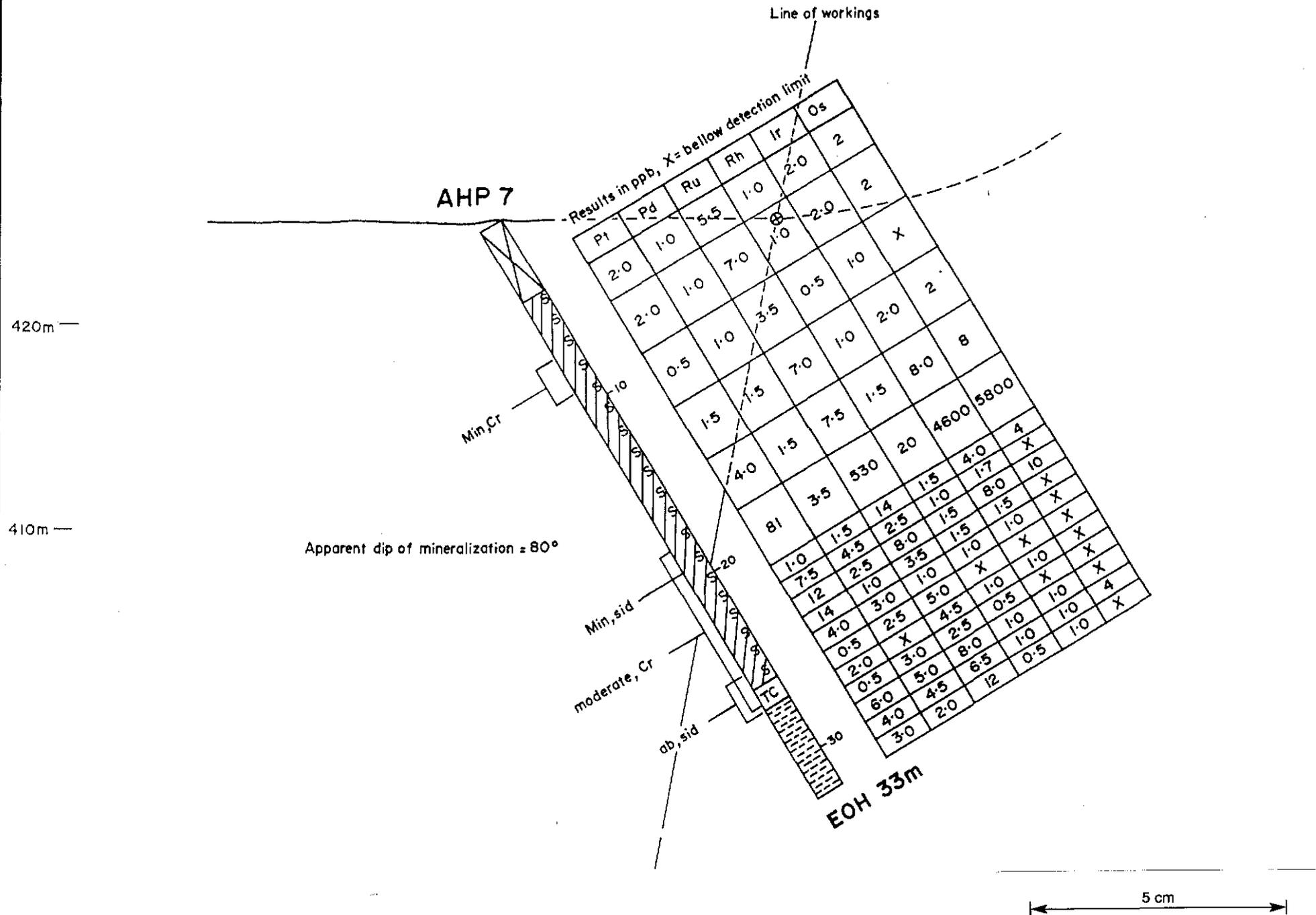
Trace, chromite present throughout hole.

EOH 50m

5 cm

Figure 30  
Scale 1:250  
Date April 87  
Drg. No. 87-265

0310



860036

Figure 31  
 Scale 1:250  
 Date April 87  
 Drg. No. 87-256

036

860037

420m

AHP 8

410m

Results in ppb, X = below detection limit

Pt	Pd	Ru	Rh	Ir	Os
2.0	2.5	7.0	0.5	1.5	4
3.0	2.5	8.5	0.5	1.5	4
2.0	2.5	4.5	0.5	3.0	4
3.0	2.5	8.0	1.5	3.5	4
3.0	2.5	6.5	1.0	8.0	8
2.0	3.0	11	1.0	3.0	4
1.5	2.0	8.5	1.0	2.0	X
1.0	3.0	9.0	1.0	1.5	2
1.5	2.5	14	1.5	2.0	4
1.0	4.5	13	1.0	2.5	4
3.0	4.5	13	1.5	1.0	4
4.0	3.0	6.5	1.5	1.0	4
2.0	3.0	14	0.5	X	X
9.0	4.5	12	2.0	1.5	4
14	12	16	2.5	2.0	4
3.4	7.5	12	1.5	1.0	X
2.0	2.0	14	1.5	1.5	4
4.0	1.0	19	2.0	1.5	4
4.5	4.0	19	1.0	0.5	4
12	6.0	6.0	1.5	1.0	2
9.5	5.5	14	2.5	0.5	4
X	1.0	7.5	1.5	1.0	X
X	1.0	30	0.5	4.5	4
0.5	1.0	11	0.5	2.0	X
X	1.5	7.5	0.5	5.0	6
1.0	2.5	6.5	X	1.5	X

min,Cr

white clay

Trace of chromite throughout hole

moderate,Cr

ab,Sid

min,Cr

min,Cr

min,Cr

min,Cr

EOH 50m

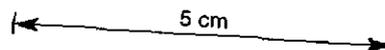


Figure 32  
Scale 1:250  
Date April 87  
Drg. No. 87-257

037

430 m

420 m

410 m

400 m

AHP 9

Line of workings

Results in ppb, X = below detection limit

Pt	Pd	Ru	Rh	Ir	Os
5.5	2.5	12	1.5	24	32
7.5	2.0	9.0	1.5	4.5	6
18	1.5	2.5	1.5	1.0	6
12	9.5	3.5	2.0	0.5	4
6.5	10	4.5	1.5	X	X

Trace, Cr

Min, Cr

EOH 21m

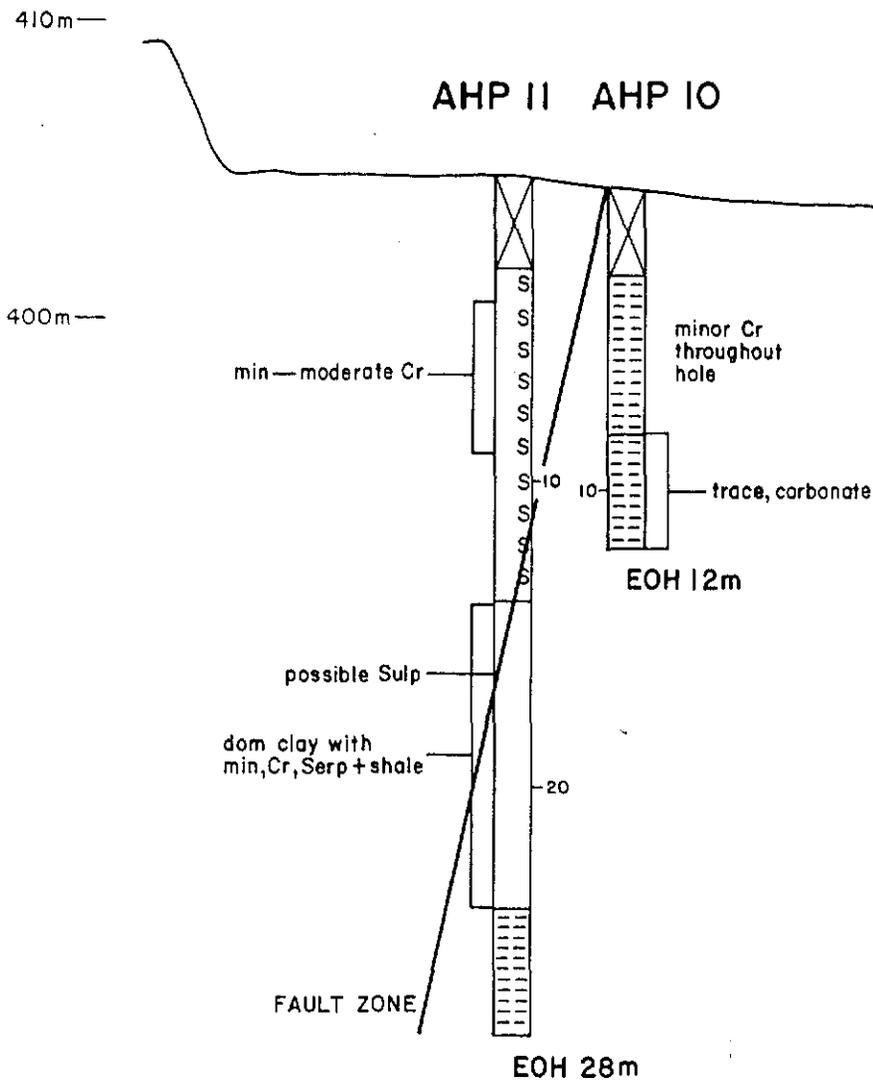
Loss of air and sample  
=> old workings.

Apparent dip % mineralization = 75°

5 cm

Figure 33  
Scale 1:250  
Date April 87  
Drg No. 87-278

038



AHP II AHP IO

Assays for AHP II

Results in ppb, X = below detection limit

Pt	Pd	Ru	Rh	Ir	Os
X	2.5	12	3.0	1.5	2
X	0.5	4.5	3.0	X	8
X	9.5	3.5	3.5	0.5	X
X	19	4.6	3.0	1.0	X
2.0	1.0	4.0	1.0	0.5	X
4.0	1.0	2.0	0.5	1.0	2
X	1.0	13	1.0	X	X
2.0	2.5	1.5	1.5	X	X
X	2.0	9.5	1.5	2.0	X
9.0	4.0	7.5	2.0	3.0	4
6.5	11	43	2.5	0.5	2
10	13	X	1.5	1.0	X
8.0	5.0	6.0	1.0	0.5	X
4.0	5.5	5.0	1.0	2.0	X
4.5	4.0	2.5	1.0	3.5	X
4.5	3.0	3.0	1.0	4.5	4
2.0	1.5	1.0	X	0.5	X
2.0	1.0	1.5	X	X	X
1.0	1.5	0.5	X	X	X

Assays for AHP IO

Results in ppb, X = below detection limit

Pt	Pd	Ru	Rh	Ir	Os
4.5	4.0	3.0	0.5	2.5	X
7.5	3.0	3.5	1.0	1.0	X
18	2.5	3.0	1.5	1.0	2

860039

5 cm

Figure 34  
Scale 1:250  
Date April 87  
Drg. No. 87-279

# AHP 12

Results in ppb, X = below detection limit

Pt	Pd	Ru	Rh	Ir	Os
1.5	1.0	4.5	0.5	0.5	X
1.5	1.0	3.0	1.0	0.5	X
2.5	1.5	4.0	1.0	1.0	X
2.5	1.0	3.0	1.5	1.5	X
3.0	2.0	4.5	1.0	0.5	X
4.0	2.0	5.0	1.0	1.0	X
5.5	0.5	5.5	1.5	0.5	X
5.5	1.5	3.5	1.0	1.0	X
5.5	1.5	4.5	1.0	0.5	X
9.0	1.5	5.5	1.0	0.5	X
1.5	1.0	2.0	0.5	0.5	2
1.5	1.1	2.0	0.5	0.5	X
X	1.5	2.5	X	0.5	X

LINE OF WORKINGS

410m

400m

DDH 85-01

after dunite(?)

trace osb

ob, osb

trace, Cr

min, Cr

min, osb

trace, Cr

EOH 39m

5 cm

0.03

860040

Figure 35  
 Scale 1:250  
 Date April 87  
 Drg. No. 87-280

2.1.3 PGE Mineralisation

Preliminary 3m composite results from the drilling in Halls Open Cut were most encouraging, as follows:-

AHP-1, 21-22m (1m) @ 3.2g (Ru Ir Os)/t, 0.03g Pt/t  
 AHP-4, 24-27m (3m) @ 5.0g (Ru Ir Os)/t, 0.10g Pt/t  
 AHP-6, 21-24m (3m) @ 10.4g (Ru Ir Os)/t, 0.10g Pt/t  
 AHP-7, 18-21m (3m) @ 10.9g (Ru Ir Os)/t, 0.08g Pt/t

Statistical processing of the analytical data showed the presence of at least two sub populations for both the Pt and the Os and Ir data.

Background Pt values range up to approx. 17 ppb, and background Os and Ir values range up to 40 ppb; further sampling (of individual 1m samples), in accordance with mineralogical and statistical criteria, resulted in the following best PGE assays:-

AHP-1, 21-22m (1m) @ 33.9g (Ru Ir Os)/t, 0.25g Pt/t  
 AHP-4, 24-25m (1m) @ 25.4g (Ru Ir Os)/t, 0.22g Pt/t  
 AHP-5, 11-12m (1m) @ 9.28g (Ru Ir Os)/t, 0.11g Pt/t  
 AHP-6, 21-22m (1m) @ 11.0g (Ru Ir Os)/t, 0.15g Pt/t

Sample bias is evident - the original result in AHP-1 was in the interval 24-27m, while AHP-5 has been included and AHP-7 excluded from the above list of significant results.

Chromite and PGE mineralisation are depicted on an approximate longitudinal projection of holes AHP 1-8 (Figure 36); the following comments relate to this Figure:-

- (i) Elevated chromite intervals average 36%, while anomalous PGE grades average 13%, and ore grades of PGE average 3.1%, of holes AHP 1-8, (linear proportions below Mullock).
- (ii) Elevated chromite zones can be correlated between drill holes, and range in (vertical) width from 1 to 15m, and appear to pitch northward at 5° to 20°.
- (iii) PGE mineralisation is generally associated with these chromite zones, although possible exceptions may occur (AHP-1 24-36m, AHP-4 18-19m, 39-43m, AHP-6 21-24m); however the extent of inter sample contamination is unknown.
- (iv) The continuity of the anomalous PGE zones appears to range 20 to 100m, but the high grade zones are more erratic, ranging 30 to 50m.

The implied composition of the high grade platinoid alloy is Pt<sub>0.01</sub> Ru<sub>0.06</sub> Ir<sub>0.44</sub> Os<sub>0.48</sub>.

The reason for the apparent separation of Pt from the Ru and Os in the drill sample assays is not known, but a separate Pt phase may be present; (old records indicate the recovery of Pt nuggets in the alluvial workings).

041

### 3.2.2 Secondary Platinoid Mineralisation

The extensive "alluvial" PGE workings all over Football Hill have generally been interpreted as indicating the former presence of streams, which drained across the Adamsfield "valley", and deposited PGE and Au bearing gravels over Football Hill.

Although the Huntley 1:50 000 geological map sheet shows Football (Sand) Hill to be comprised of quartz sandstone, it was suspected that this sandstone may be a secondary source of chromite, PGE and Au.

Drill holes ATP 17, 18 and 19 were drilled along the Adamsfield Track on the western fall of Football Hill to test this hypothesis; although the drilling was beset with technical problems, it was able to confirm the PGE source rock nature of the sandstone.

The drill logs (Appendix 3) record variably calcareous ultramafic-debris-bearing siltstones and sandstones, ranging in colour from green to red/yellow/brown and with traces of chromite.

Drill hole ATP 18 intersected a 3.5m zone grading 0.39 g (Ru Ir Os)/t from 15 to 18.5m, although the duplicate results indicate a predictably random distribution of the PGE.

### 3.2.3 Petrology

The Adamsfield "blue rock" was positively identified as being of riebeckite-quartz composition, and in the particular sample examined trace to minor amounts of pyrite, heazlewoodite, garnierite and specularite were present, (Appendix 7 and 8).

The "jasper" seen in the drill chips from Halls Open Pit was identified as siderite, (Appendix 9).

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# METALS EXPLORATION LTD. (INCORPORATED IN VICTORIA)

860044

2ND FLOOR JARDINE HOUSE, 184 ST GEORGE'S TERRACE, PERTH, WESTERN AUSTRALIA 6000  
P.O. BOX 7284 CLOISTERS SQUARE, PERTH, WESTERN AUSTRALIA 6000  
TELEPHONE (09) 480 3232. TELEX AA197127 METEX. FAX (09) 324 1042.

043

## EXPENDITURE STATEMENT

I, IAN DONALD FINCH of 53 PEMBROKE STREET, BICTON, in the STATE OF WESTERN AUSTRALIA, do solemnly and sincerely declare:-

THAT an amount of \$159,248.22 has been expended on Exploration Licence No. 4/85 Adamsfield during the twelve month period to June 1987 and is made up as follows:

Assays	31661.11
Consultancy fees	4393.42
Contractors - General	17500.19
Couriers	18.00
Drafting	73.52
Drilling	2656.00
Drilling - Non Core	24260.00
Earthmoving	28525.00
Field expenses	1217.43
Freight	3357.19
General expenses	1460.67
Technical Services	7643.89
Hire of Equipment	1621.00
Hire of Vehicles	1497.54
Minerology	135.00
Petrology	635.00
Safety Equipment	171.56
Site Preparation	3000.00
Communications	12.88
Technical Services	22340.00
Tenement - Rent	1320.00
Travel & Accommodation	4007.23
Vehicle costs	1741.59

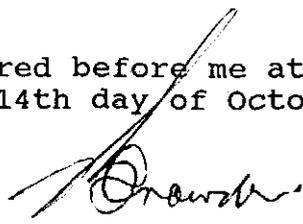
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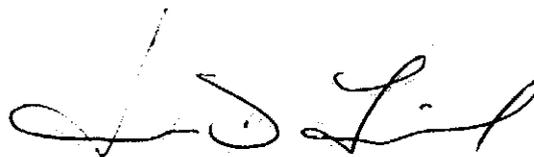
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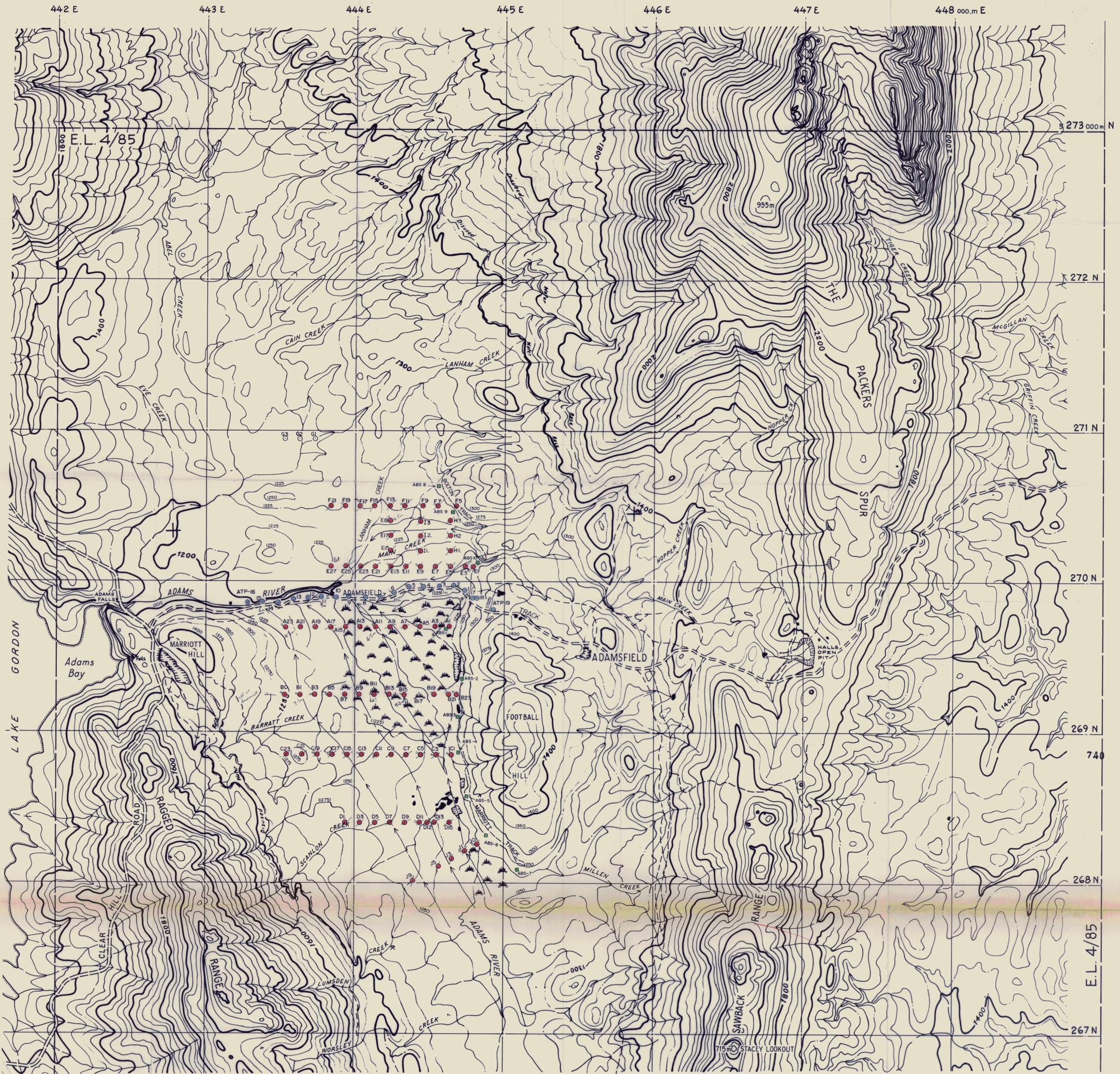
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And I make this solemn declaration conscientiously believing the same to be true and by virtue of the provision of an Act of Parliament of Western Australia rendering persons making false declaration punishable for willful and corrupt perjury.

Declared before me at Perth )  
this 14th day of October 1987 )

  
BRIAN R. CROWDER  
COMMISSIONER FOR DECLARATIONS





860045  
87-2729

**LEGEND**

- A13 B9 E17 etc. Auger drill holes
- ATP-4. Percussion drill holes
- ABS-5. Bulk sample site
- Stream Palaeo Channel
- New Track



**METALS EXPLORATION LIMITED**

ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85

**PLAN OF DRILL HOLES**  
(ON THE ADAMS RIVER - LANHAM  
MAIN CREEK PLAIN AND THE  
ADAMSFIELD TRACK) AND  
**BULK SAMPLE SITES**  
(ON BOLTON AND MARRIOTT  
TRACKS)



5 cm

DATE: OCTOBER 1987  
SCALE: 1:10 000

**6069**  
FIGURE : 2  
DRG NO: 87-247



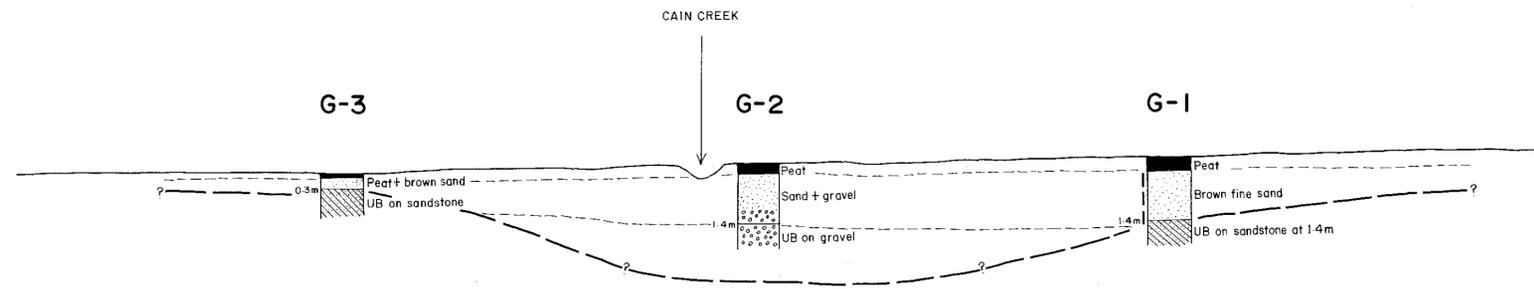
860046

NOTE: - All Drill Holes are Shown O  
 All Levels are Derived From  
 T.B.M. N°1 Assumed RL=400.00 (Approx. A.H.D.=480.00)

<b>BROOKS LARK &amp; CARRICK</b> <b>LAND &amp; ENGINEERING SURVEYORS</b> 9 WARNEFORD ST. SOUTH HOBART PH.(002)23 5666	
<b>METALS EXPLORATION LIMITED</b> ADAMSFIELD EL4-85 General Workings in the Vicinity of 'Halls Open Cut'	
SCALE 1:500 (S) DRAWN D. WALKER DATE 12-Oct-1988 APPROVED <i>[Signature]</i>	Figure 3 of 6070 Drawing No: 87-301

W

E



**LEGEND**

	Peat / Lignite	A-I	Hand auger hole	
	Clay	—?— F	Inferred basement fault	
	Sandy clay / clayey sand		Trace	} Chromite
	Sand		Minor to abundant	
	Gravelly sand / sandy gravel		Trace	} Platinoids (P.G.E.)
	Gravel		Minor	
} Basement rocks		UB	Hole unbottomed	
				

860047



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87-2729

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EXPLORATION LICENCE 4/85

**CAIN CREEK PLAIN**

**SECTION LINE G**

**(Looking North)**



6071

Date October 1987  
Scale Hor. 1:1000/Vert. 1:100

Figure 4  
Drg. No. 87-294

W

E

F 21.

F 19.

F 17.

F 15.

F 13.

F 11.

F 9.

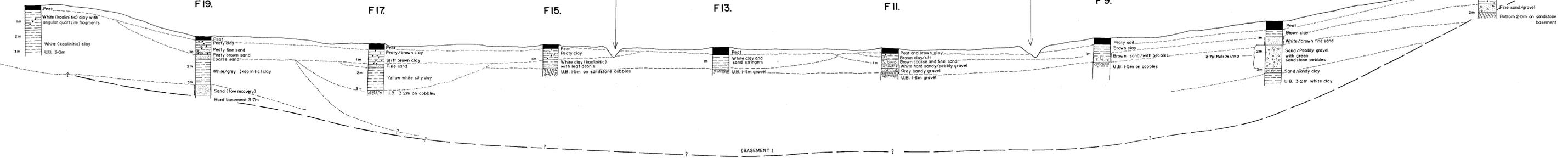
F 7.

F 5.

LANHAM CREEK

CREEK

BOLTON TRACK



LEGEND

	Peat / Lignite	A-I	Hand auger hole
	Clay	-? F	Inferred basement fault
	Sandy clay / clayey sand		Trace } Chromite
	Sand		
	Gravelly sand / sandy gravel		Trace } Platinoids (P.G.E.)
	Gravel		
	Limestone	UB	Hole unbottomed
	Sandstone		

860048  
**METALS EXPLORATION LIMITED**  
 87-2729  
 ADAMSFIELD PROJECT, TASMANIA  
 EXPLORATION LICENCE 4785

ADAM RIVER PLAIN  
 SECTION LINE F  
 (Looking North)



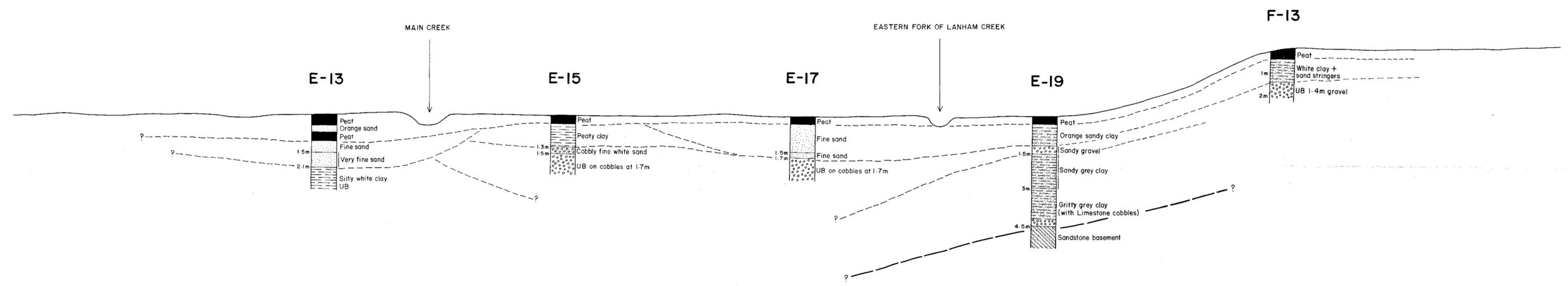
6072

Date March 1987 Figure 5  
 Scale Hor: 1:1000/Vert: 1:100 Drg No: 87-293

6072

S

N



**LEGEND**

	Peat / Lignite		Hand auger hole
	Clay		Inferred basement fault
	Sandy clay / clayey sand		Trace } Chromite
	Sand		
	Gravelly sand / sandy gravel		Trace } Platinoids (P.G.E.)
	Gravel		
	Limestone		Hole unbottomed
	Sandstone		

860049



**METALS EXPLORATION LIMITED**

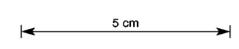
87-2729

ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85

**LANHAM - MAIN CREEK PLAIN**

**SECTION LINE E-1**

**(Looking West)**



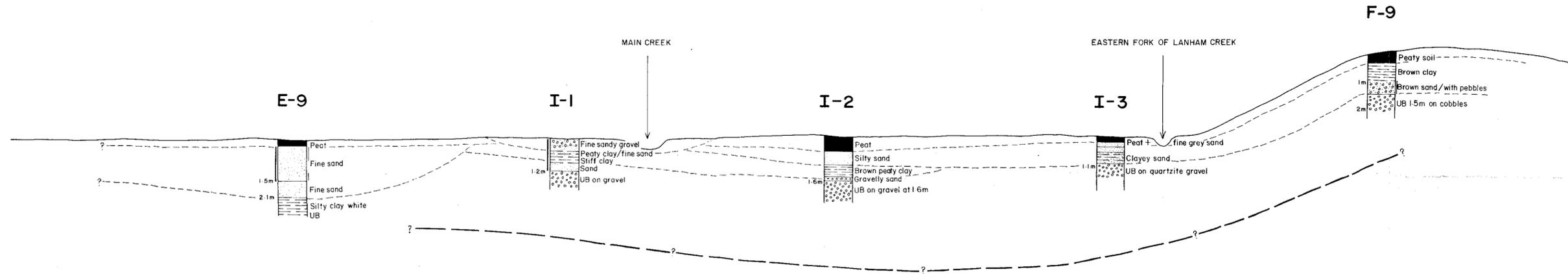
Date October 1987  
Scale Hor. 1:1000/Vert. 1:100

Figure 6  
Dr. No. 87-297

6073

(S)

(N)



**LEGEND**

	Peat/Lignite	<b>A-I</b>	Hand auger hole	
	Clay	<b>-?-F</b>	Inferred basement fault	
	Sandy clay/clayey sand		Trace	} Chromite
	Sand		Minor to abundant	
	Gravelly sand/sandy gravel		Trace	} Platinoids (P.G.E.)
	Gravel		Minor	
	Limestone	UB	Hole unbottomed	
	Sandstone			

Basement rocks {

860050



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87-2729

ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85

**LANHAM-MAIN CREEK PLAIN**

**SECTION LINE I**

**(Looking West)**

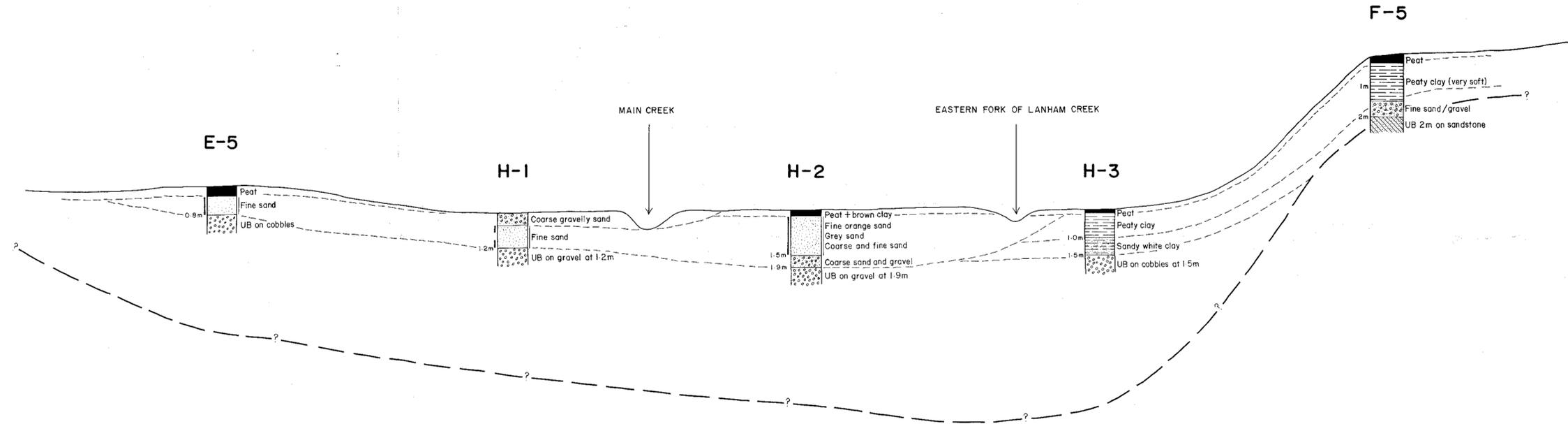
5 cm

6074

Date October 1987 Figure 7  
Scale Hor. 1:1000/Vert. 1:100 Drg. No. 87-296

(S)

(N)



**LEGEND**

	Peat/Lignite		A-I Hand auger hole
	Clay		-?-F Inferred basement fault
	Sandy clay/clayey sand		Trace
	Sand		Minor to abundant
	Gravelly sand/sandy gravel		Trace
	Gravel		Minor
	Limestone	UB	Hole unbottomed
	Sandstone		

Basement rocks {

Chromite

Platinoids (P.G.E.)

860051



**METALS EXPLORATION LIMITED**

87-2729

ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85

**LANHAM - MAIN CREEK PLAIN**

**SECTION LINE H**

**(Looking West)**

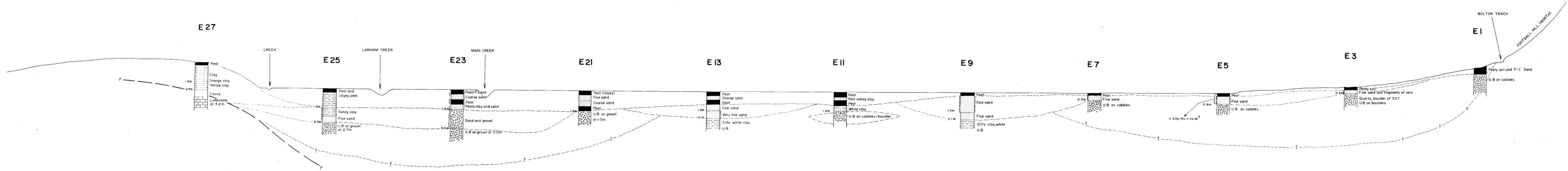
5 cm

Date October 1987  
Scale Hor. 1:1000/Vert. 1:100

6075  
Figure 8  
Dr. No. 87-295

W

E



**LEGEND**

- |  |                            |            |                             |
|--|----------------------------|------------|-----------------------------|
|  | Peat/Lignite               | <b>A-I</b> | Hand auger hole             |
|  | Clay                       | <b>F</b>   | Inferred basement fault     |
|  | Sandy clay/clayey sand     |            | Trace } Chromite            |
|  | Sand                       |            |                             |
|  | Gravelly sand/sandy gravel |            | Trace } Platinoids (P.G.E.) |
|  | Gravel                     |            |                             |
|  | Limestone                  | UB         | Hole unbottomed             |
|  | Sandstone                  |            |                             |

860052  
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ADAMSFIELD PROJECT, TASMANIA  
 EXPLORATION LICENCE 4/85

**ADAM RIVER PLAIN**  
**SECTION LINE E-2**  
 (Looking North)

5 cm

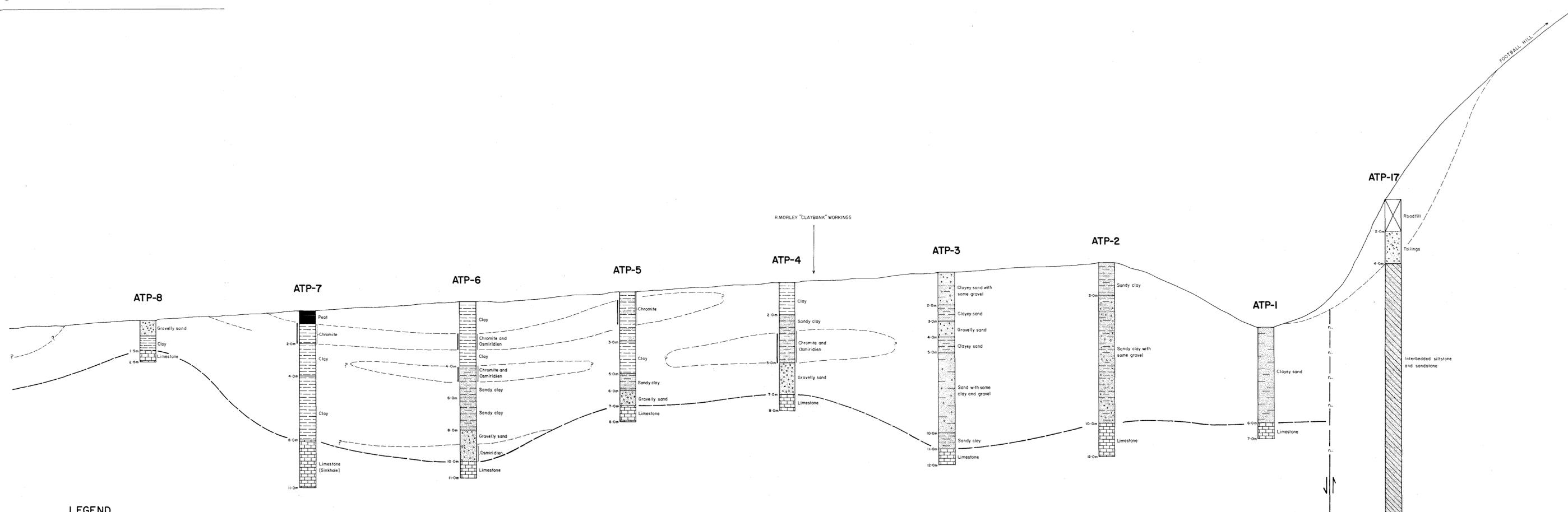
Date March 1987 Figure 9  
 Scale Hor. 1:1000/Vert. 1:100 Drg No. 87-248

6076

6076

W

E



LEGEND

- Peat/Lignite
  - Clay
  - Sandy clay/clayey sand
  - Sand
  - Gravelly sand/sandy gravel
  - Gravel
  - Limestone
  - Sandstone
- Basement rocks
- ATP-1 Percussion drill hole
  - ? F Inferred basement fault
  - | Trace } Chromite
  - | Minor to abundant } Chromite
  - | Trace } Platinoïds (P.G.E.)
  - | Minor } Platinoïds (P.G.E.)
  - UB Hole unbottomed

860053

5m

**METALS EXPLORATION LIMITED**

ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85  
87-2729

APPROX. W-E SECTION  
ALONG THE ADAMSFIELD TRACK

SECTION LINE ATP-1 TO 17  
SHEET 1 OF 2

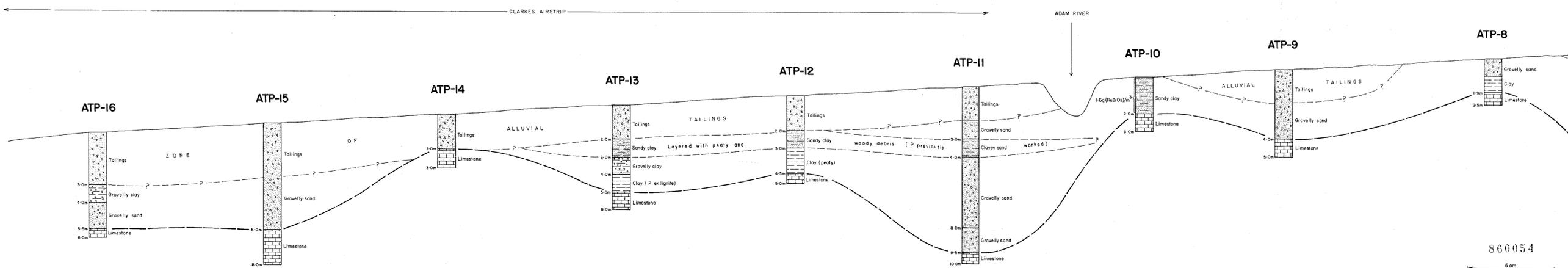
6077

Date October 1987 Figure 10A  
Scale Hor. 1:1000/Vert. 1:100 Drg No. 87-299

6077

W

E



**LEGEND**

	Peat / Lignite		ATP-I Percussion drill hole
	Clay		Inferred basement fault
	Sandy clay / clayey sand		Trace } Chromite
	Sand		
	Gravelly sand / sandy gravel		Trace } Platinoids (P.G.E.)
	Gravel		
	Limestone	UB	Hole unbottomed
	Sandstone		

860054  
5m

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87-2729

APPROX. W-E SECTION  
ALONG THE ADAMSFIELD TRACK

SECTION LINE ATP-1 TO 17  
SHEET 2 OF 2

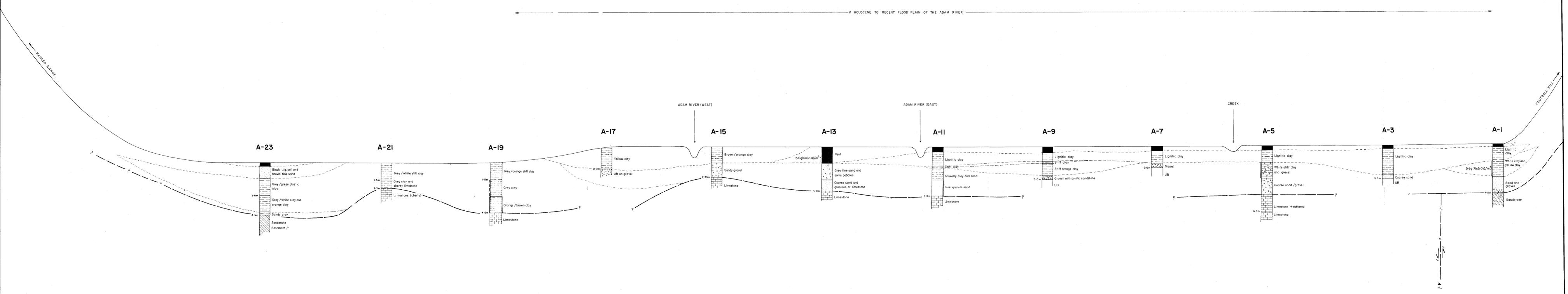
Date October 1987 Figure 108  
Scale Hor. 1:1000/Vert. 1:100 Drg No. 87-300

6078

W

E

← HOLOCENE TO RECENT FLOOD PLAIN OF THE ADAM RIVER →



**LEGEND**

- |  |                              |  |                               |
|--|------------------------------|--|-------------------------------|
|  | Peat / Lignite               |  | A-1 Hand auger hole           |
|  | Clay                         |  | -?— F Inferred basement fault |
|  | Sandy clay / clayey sand     |  | Trace                         |
|  | Sand                         |  | Minor to abundant } Chromite  |
|  | Gravelly sand / sandy gravel |  | Trace } Platnoids (P.G.E.)    |
|  | Gravel                       |  | Minor } Platnoids (P.G.E.)    |
|  | Limestone                    |  | UB Hole unbottomed            |
|  | Sandstone                    |  |                               |

80055  
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ADAMSFIELD PROJECT, TASMANIA  
 EXPLORATION LICENCE 4/85  
 87-2729

**ADAM RIVER PLAIN**  
**SECTION LINE A**  
 (Looking North)

5 cm

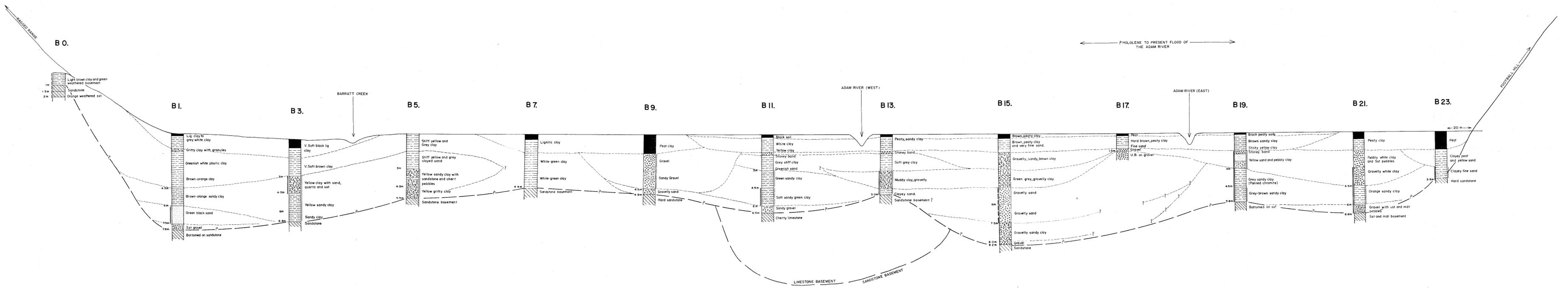
6079

Date October 1987 Figure 11  
 Scale Hor 1:1000/Vert 1:100 Drg No 87-291

6079

W

E



**LEGEND**

- Peat/Lignite
  - Clay
  - Sandy clay/clayey sand
  - Sand
  - Gravelly sand/sandy gravel
  - Gravel
  - Limestone
  - Sandstone
- A-I** Hand auger hole
- F** Inferred basement fault
- Trace** } Chromite
- Minor to abundant** } Chromite
- Trace** } Platinoids (P.G.E.)
- Minor** } Platinoids (P.G.E.)
- UB** Hole unbottomed

860056  
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 EXPLORATION LICENCE 4/85  
 87-2729  
**ADAM RIVER PLAIN**  
**SECTION LINE B.**  
**(Looking North)**

5 cm

Date March 1987 Figure 12  
 Scale Hor. 1:1000/Vert. 1:100 Drg. No. 87-250

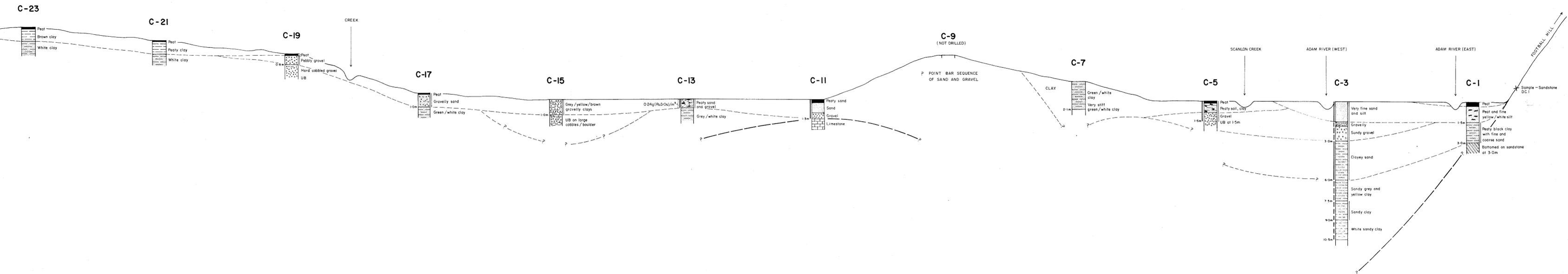
6080

W

E

LIMESTONE SUBCROP

HOLOCENE TO RECENT FLOOD PLAIN OF THE ADAM RIVER



**LEGEND**

	Peat / Lignite		A-1 Hand auger hole
	Clay		F Inferred basement fault
	Sandy clay/clayey sand	Trace } Chromite	Minor to abundant } Chromite
	Sand		
	Gravelly sand/sandy gravel	Trace } Platinoids (P.G.E.)	Minor } Platinoids (P.G.E.)
	Gravel		
	Limestone	ub	Hole unbottomed
	Sandstone		

860057

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ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85

87-2729

ADAM RIVER PLAIN

SECTION LINE C

(Looking North)

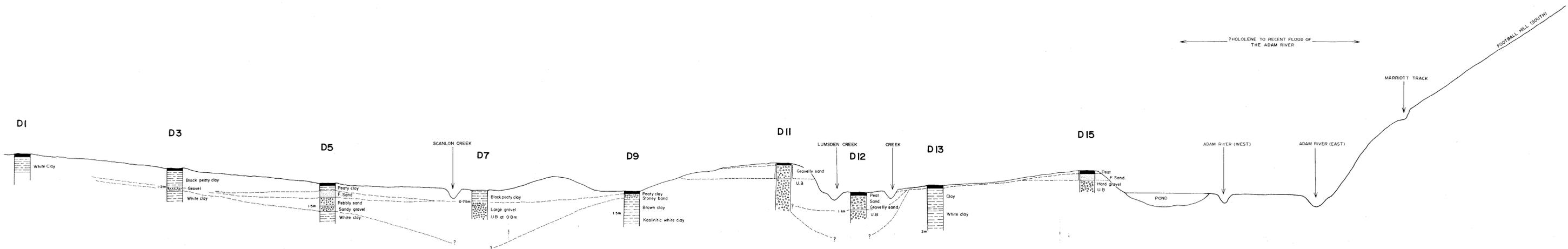
5 cm

6081

Date October, 1987 Figure 13  
Scale Hor. 1:1000/Vert. 1:100 Drg. No. 87-292

W

E



**LEGEND**

	Peat / Lignite	<b>A-1</b>	Hand auger hole
	Clay	<b>-? F</b>	Inferred basement fault
	Sandy clay/clayey sand		Trace } Chromite
	Sand		
	Gravelly sand/sandy gravel		Trace } Platinoids (P.G.E.)
	Gravel		
	Limestone	UB	Hole unbottomed
	Sandstone		

6082

860058  
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ADAMSFIELD PROJECT, TASMANIA  
 EXPLORATION LICENCE 4/85

87-2729

ADAM RIVER PLAIN

SECTION LINE D.

(Looking North)

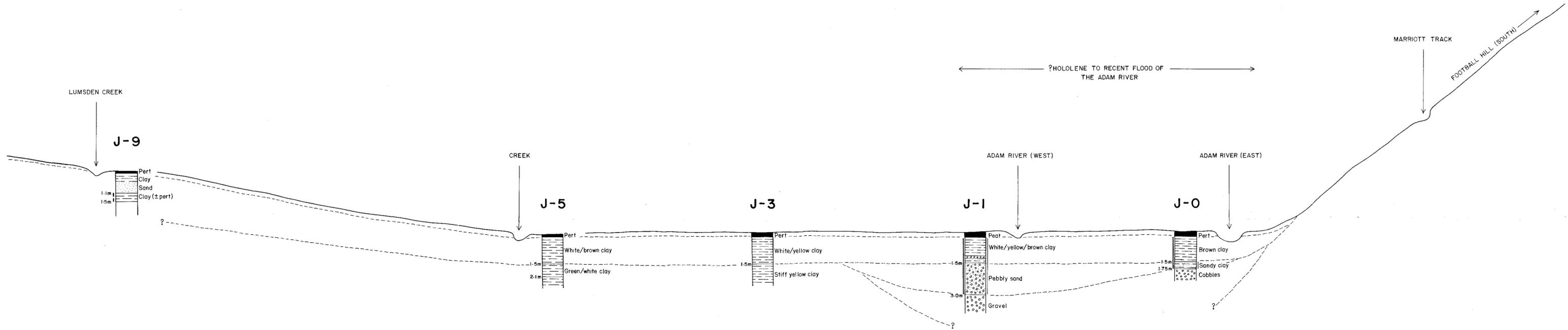
50m

6082

Date: March 1987  
 Scale: Hor. 1:1000/Vert. 1:100  
 Figure: 14  
 Drg No: 87-249

W

E



**LEGEND**

	Peat / Lignite		A-1	Hand auger hole
	Clay		—?— F	Inferred basement fault
	Sandy clay/clayey sand			Trace } Chromite
	Sand			
	Gravelly sand / sandy gravel			Trace } Platinoids (P.G.E.)
	Gravel			
Basement rocks		UB	UB	Hole unbottomed

860059  
 METALS EXPLORATION LIMITED

ADAMSFIELD PROJECT, TASMANIA  
 EXPLORATION LICENCE 4/85

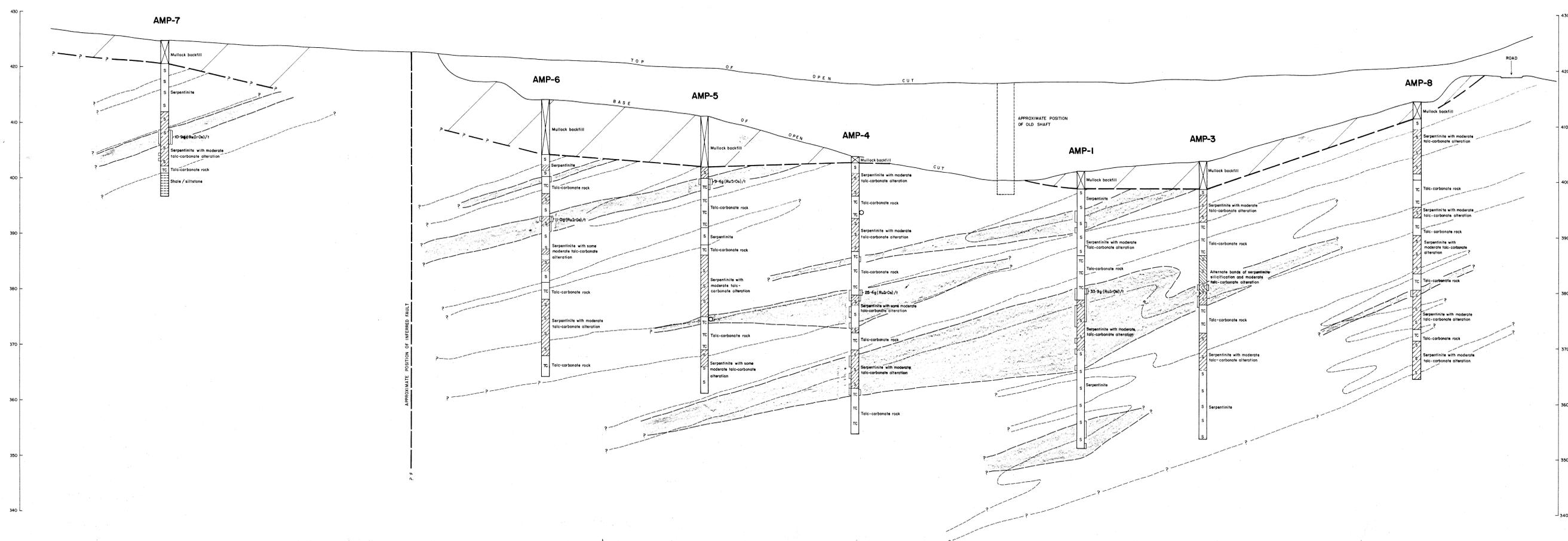
87-2729

**ADAM RIVER PLAIN**  
**SECTION LINE J**  
**(Looking North West)**

5 cm

(N)

(S)



ASSUMED ELEVATION 400m = 480 AMD

**LEGEND**

- Mullock backfill
- Serpentinite (ex Dunite)
- Talc-carbonate rock
- Shale/siltstone (Adamsfield Beds)
- Moderate talc-carbonate alteration
- Silicification

**AMP-1** Percussion drill hole

- Visible "Osmiridium"
- Anomalous Pt (> 15 ppb)
- Anomalous Os+Ir (> 40 ppb)
- Minor to abundant chromite
- Zone of PGE mineralisation

860060  
**METALS EXPLORATION LIMITED**

ADAMSFIELD PROJECT, TASMANIA  
EXPLORATION LICENCE 4/85

**HALLS OPEN CUT**  
**LONGITUDINAL PROJECTION**  
(STRIKING 352° AMG)  
**OF**  
**DRILL HOLES AMP-1 TO 8**  
**( Looking East )**



860061

# METALS EXPLORATION LTD. (INCORPORATED IN VICTORIA)

2ND FLOOR JARDINE HOUSE, 184 ST GEORGE'S TERRACE, PERTH, WESTERN AUSTRALIA 6000  
P.O. BOX 7284 CLOISTERS SQUARE, PERTH, WESTERN AUSTRALIA 6000  
TELEPHONE (09) 480 3232. TELEX AA197127 METEX. FAX (09) 324 1042.

044

**OPEN FILE**

**ADAMSFIELD PROSPECTS**

**SOUTH WEST TASMANIA**

**E.L. 4/85**

**ANNUAL REPORT FOR THE PERIOD ENDING  
25 JULY 1987**

**VOLUME 2 OF 2**

Copies: Mines Department Tasmania  
Exploration, Perth  
Exploration, Melbourne  
Library  
Spare

<b>MINES</b>	
File Ref.	<b>EL 4/85</b>
	<b>- 2 NOV 1987</b>
Doc. Ref.	
Action Officer	Initials
<b>COPY OF</b>	
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<b>ON FILE</b>	
Resubmit to	Date

*[Faint, illegible text]*

045

LIST OF APPENDICES

- APPENDIX 1: Logs of Auger Drill Holes - Adam River Plain etc.
- APPENDIX 2: Logs of Adamsfield Track Drill Holes - West of Football Hill.
- APPENDIX 3: Logs of Adamsfield Track Drill Holes - on Football Hill.
- APPENDIX 4: Logs of Percussion Drill Holes - Halls Open Cut Area.
- APPENDIX 5: Report on Percussion Drilling Programme - Halls Open Cut Area.
- APPENDIX 6: Preliminary Archaeological Survey of Adamsfield Area.
- APPENDIX 7: Petrographic and Mineragraphic Examination of Ultrabasic Rock Samples.
- APPENDIX 8: Petrographic and Mineragraphic Examination of "Blue Rock" Specimen.
- APPENDIX 9: Petrographic Report on Percussion Chip Samples.

046

APPENDIX 1

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FIELD ENTRY  
LAB ENTRY  
047

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN mg/kg UNLESS OTHERWISE STATED; X-BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Au g/t <sup>1</sup>	Pb	Pt	Cu	Rh	Ir	Or
0	1.5	1.5m	LIGNITIC CLAY		311600	<0.02	X	0.7	1.5	0.7	0.7	6
1.5	3	1.5m	WHITE CLAY + YELLOW CLAY		601	<0.02	78	2.2	435.0	16.5	3/50.0	150.0
3	4.5	1.5m	SAND / GRAVEL, COARSE SAND		602	<0.02	X	0.7	3.0	0.7	3.0	3
			BASEMENT AT 4.5m.									

AP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: **D. CHOY** MACHINE: \_\_\_\_\_

SAMPLE TYPE: **AUGER**

INCLINATION AT COLLAR: **VERT.** BEARING AT COLLAR: \_\_\_\_\_ MAG/GRID: \_\_\_\_\_

FIELD ENTRY BY: **D. C.** DATE: **24/2/87** LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /

PROSPECT OR PROJECT: **ADAMSFIELD** AREA OR GRID NAME: \_\_\_\_\_

LINE No: **A** LOCATION ON LINE OR HOLE NUMBER: **A1 - 0m W.** LOG PAGE: **1 OF 1**

860064



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FIELD ENTRY  
LAB ENTRY  
048

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE	SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT						
FROM	TO				ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY	Ag	Pb	Cd	Rn	Rh
0	1.5m	1.5m	LIGNITIC CLAY	311603	X	15	15	5.2	1.5	5.2	6
1.5	3.0m	"	LIGNITIC CLAY and COARSE SAND GRAVELLY SAND AT 3.0m.	604	X	4.5	3.8	8.2	3.0	6.0	9
3	4.5?		CL. B. - Not getting through the gravel Sample recorded in Analysis sheet.	605	X	30.0	0.7	6.0	2.2	3.8	6

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY: D. C.

MACHINE

INCLINATION AT COLLAR: VERT

BEARING AT COLLAR

MAG/GRID

SAMPLE TYPE: AUGER

FIELD ENTRY BY: D. C.

DATE: 26/2/87

CHECK SAMPLE

LAB NOTES

CHEMIST

DATE: / /



PROJECT OR PROJECT: ADAMSFIELD

AREA OR GRID NAME

LINE No: A

LOCATION ON LINE OR HOLE NUMBER: A3 - 100 m W

LOG PAGE 1 OF 1

LOG & ANALYTICAL REPORT Sheet No. of A/O

860065

FIELD ENTRY  
049  
LAB ENTRY

# METALS EXPLORATION LIMITED

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN <sup>mg/m<sup>2</sup></sup> UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag <sup>+</sup>	Pt	Pb	Cu	Rh	Ir	Os
0	1.5m	1.5m	LIGNITIC CLAY + WHITE CLAY		311656	x	2.2	0.7	6.0	1.5	6.7	6
1.5	3.0m	"	WHITE STIFF CLAY + GRAVEL - Quartzite pebbles + coarse sand with chromite rounded quartzite pebbles 2" + 1" diameter pebbles.		657	x	2.2	x	7.5	1.5	10.5	15
3	4.5	1.5m	Coarse sand / gravel		608	x	1.5	x	3.0	0.7	1.5	x
4.5	6.0	1.5m	LIMESTONE BASEMENT		609	x	x	0.7	3.0	0.7	1.5	x

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY: **D. CHOY**  
SAMPLE TYPE: **AUGER**

MACHINE:

INCLINATION AT COLLAR: **VERT.** BEARING AT COLLAR:

MAG / GRID:

FIELD ENTRY BY: **D. C.**

DATE: **26/2/87**

CHECK SAMPLE

LAB. NOTES:

CHEMIST:

DATE: / /

PROSPECT OR PROJECT: **ADAMS FIELD**

AREA OR GRID NAME:

LINE No: **A**

LOCATION ON LINE OR HOLE NUMBER: **A5-200m W**

LOG PAGE: **1** OF **1**

LOG & ANALYTICAL REPORT Sheet No. of A/O



860086

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FIELD ENTRY  
LAB ENTRY  
050

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X-BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		As	Pb	Pt	Re	Rh	Ir	Os
0	1.5	1.5m	LIGNITE, CLAY		311610	x	1.5	0.7	5.2	1.5	1.5	x
1.5	2.0	0.5m	GRAVEL, with green quartzite and sandstone		611	x	1.5	0.7	6.7	1.5	2.2	x
			U.B. at 2.0 m.									

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: **R CHOY** MACHINE: \_\_\_\_\_

SAMPLE TYPE: **AUGER**

INCLINATION AT COLLAR: **VERT** BEARING AT COLLAR: \_\_\_\_\_

FIELD ENTRY BY: **D.C.** MAG/GRID: \_\_\_\_\_ DATE: **26/2/87**

PROSPECT OR PROJECT: **ADAMSFIELD** AREA OR GRID NAME: \_\_\_\_\_

LINE No: **A** LOCATION ON LINE OR HOLE NUMBER: **A7-300 m W** LOG PAGE: **1 OF 1**

CHEMIST: \_\_\_\_\_ DATE: / /

CHECK SAMPLE: \_\_\_\_\_

LAB NOTES: \_\_\_\_\_



860067

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FIELD ENTRY  
LAB ENTRY  
051

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY	Au	Pt	Pd	Ru	Rh	Ir	Os
0	1.5m	1.5m	LIGNITIC CLAY (1.3-1.5m STIFF CLAY)	511612	x	15	22	52	15	22	x
1.5	3.0m	1.5m	stiff orange clay and gravel at 2.7m (sandstone pebbles) At 3.0m. Hill rock - sandstone with disseminated pyrite - basement rock	613	x	15	0.7	75	15	22	3

MAP, AIR PHOTO OR DRAWING NO.

LOGGED BY: **D. CHOY**  
SAMPLE TYPE: **ANGER**

MACHINE

INCLINATION AT COLLAR: **VERT**  
BEARING AT COLLAR: \_\_\_\_\_  
MAG/GRID: \_\_\_\_\_

FIELD ENTRY BY: **D.C.**  
DATE: **26/2/87**

CHECK SAMPLE: \_\_\_\_\_  
LAB. NOTES: \_\_\_\_\_  
CHEMIST: \_\_\_\_\_  
DATE: / /

PROSPECT OR PROJECT: **ADAMSFIELD**  
SITE No: **A**

AREA OR GRID NAME: \_\_\_\_\_  
LOCATION ON LINE OR HOLE NUMBER: **A9-400m W**  
LOG PAGE: **1** OF **1**



860068

FIELD ENTRY  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X* BELOW DETECTION LIMIT						
FROM	TO		ABBREV GEOL. DESCRIPTION	ASSAY SUMMARY		As	Pf	Pt	Ru	Rh	Ir	Os
0	1.5m	1.5m	LIGNITE CLAY		311614	x	1.5	0.7	4.5	1.5	1.5	x
1.5	3.0m	1.5m	Gravelly clay / sand PAN - FROM 1 pan (5L) - 3 pieces of (Pan) Osmiridium	(Auger)	615 ? 616 ?	x	143	0.19	5.26	0.5	32.68	30.4
3	4.5m	1.5m	FINE GRANULY SAND PAN sample showed 3 colours of Osmiridium At 4.5m - on limestone.	Auger PAN	617 ? 618 ?	1.5	0.29	0.2	0.67	0.19	x	x

860069

MAP, AIR PHOTO OR DRAWING No \_\_\_\_\_

LOGGED BY: **D. CHOY** MACHINE \_\_\_\_\_ INCLINATION AT COLLAR: **VERT** BEARING AT COLLAR: \_\_\_\_\_ MAG/GHID: \_\_\_\_\_

SAMPLE TYPE: **AUGER** FIELD ENTRY BY: **D. C.** DATE: **27/2/87**

CHECK SAMPLE \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHI MIST: \_\_\_\_\_ DATE: / /

PROJECT OR GRID NAME: **ADAMSFIELD** AREA OR GRID NAME: \_\_\_\_\_

LINE No: **A** LOCATION ON LINE OR HOLE NUMBER: **A11 - 500 m W.** LOG PAGE: **1** OF **1**



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FIELD ENTRY  
LAB ENTRY  
053

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN mg/m <sup>3</sup> UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT						
FROM	TO		ABBREV GEOL. DESCRIPTION	ASSAY SUMMARY		As	Pt	Pb	Rh	Ir	Sr	
0	1.5m	1.5m	Lignite		311619	<	255.0	2.2	660.0	50.0	7600.0	2700
1.5	3.0m	1.5m	Grey, fine sand, pebbly		620	x	1.5	1.5	10.5	2.2	1.5	x
3.0	4.0m	1.0m	Coarse sand + granules + Limestone basement at 4m.		6217							
			3-4m. PAN sample		6221	x	0.18	0.1	0.77	0.29	0.39	0.8

APP. AIR PHOTO OR DRAWING No. \_\_\_\_\_  
 LOGGED BY: **D. CHOY** MACHINE \_\_\_\_\_  
 SAMPLE TYPE: **AUGER**  
 INCLINATION AT COLLAR: **VERT** BEARING AT COLLAR: \_\_\_\_\_  
 FIELD ENTRY BY: **D.C.** MAG / GRID: \_\_\_\_\_  
 DATE: **27/2/87** CHECK SAMPLE: \_\_\_\_\_  
 LAB NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_  
 DATE: / /

PROSPECT OR PROJECT: **ADAMS FIELD** AREA OR GRID NAME: \_\_\_\_\_  
 LINE No: **A** LOCATION ON LINE OR HOLE NUMBER: **A13 - 600 m W** LOG PAGE: **1 of 1**

860070

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FIELD ENTRY  
LAB ENTRY  
05A

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY	
0	1.5m	1.5m	Brown + orange clay		311623
1.5	2.75m	1.25m	Sandy gravel	AUGER PDM	6243 6251
			Limestone basement at 2.75 m		

RESULTS IN ppm UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT

Ag	Al	Pt	Pb	Fe	Rh	Cr	Zn
X	X	0.7	4.5	1.5	0.7	X	
1.5	0.23	X	1.37	0.28	0.55	X	

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY: D. CHOY

SAMPLE TYPE: AUGER

PROJECT OR PROJECT: ADAMSFIELD

LINE No: A

COLLAR Elevation is 2m higher than PLAIN

MACHINE:

INCLINATION AT COLLAR

BEARING AT COLLAR

MAG/GRID

FIELD ENTRY BY: D. C.

DATE: 27/2/87

AREA OR GRID NAME

LOCATION ON LINE OR HOLE NUMBER: A15-700 m W

LOG PAGE: 1 OF 1

CHECK SAMPLE

LAB NOTES

CHEMIST

DATE: / /

860071

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FIELD ENTRY  
LAB. ENTRY  
055

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN mg/kg UNLESS OTHERWISE STATED, X = BELOW DETECTION LIMIT														
FROM	TO		ABBREV GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	Ir	Os								
0	1.2m	1.2m	Yellow clay with quartz, red jasper-like U.B. on sandstone gravel		31626 627															

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. CHOY MACHINE: \_\_\_\_\_

SAMPLE TYPE: AUGER

INCLINATION AT COLLAR: VERT. BEARING AT COLLAR: \_\_\_\_\_ MAG / GRID: \_\_\_\_\_

FIELD ENTRY BY: D. C. DATE: 27/2/87

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /



PROJECT OR PROJECT: ADAMSFIELD

AREA OR GRID NAME: \_\_\_\_\_

LINE No: A LOCATION ON LINE OR HOLE NUMBER: A17-800 m W

LOG PAGE: 1 OF 1

860072

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FIELD ENTRY  
LAB ENTRY  
056

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN mg/m <sup>3</sup> UNLESS OTHERWISE STATED; X* BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		As	Pt	Pd	Ru	Rh	Ir	Os
0	1.5m	1.5m	Grey-orange stiff clay	AUGER	311628	x	x	x	3.8	0.7	x	x
1.5	3.0m		Grey clay - completely panned Sample - a few chromite grains (PAN sample only)	PAN	629	1.5	x	x	4.5	0.7	x	x
3.0	4.5m	1.5m	Orange-brown clay (weathered basement) Psmidium found - 5 specks of Os- mium & chromite present.  Limestone basement at 4.5m. (in sink-hole location)		630	1.5	615	0.7	2700	78	2100	19500

860073

APP. AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: **D. CHOY** MACHINE: \_\_\_\_\_

SAMPLE TYPE: **AUGER**

FIELD ENTRY BY: **D. C.** DATE: **23/2/81**

COLLAR ELEVATION: **1.5m lower than A17**

INCLINATION AT COLLAR: **Vert** BEARING AT COLLAR: \_\_\_\_\_ MAG / GRID: \_\_\_\_\_

PROJECT OR GRID NAME: **ADAMS FIELD**

AREA OR GRID NAME: \_\_\_\_\_

LOCATION ON LINE OR HOLE NUMBER: **A19-900m W**

LOG PAGE: **1 OF 1**

CHECK SAMPLE: \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: **/ /**

FIELD ENTRY  
LAB ENTRY  
057

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN $\mu\text{g}/\text{m}^2$ UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT						
FROM	TO		ABBREV GEOL. DESCRIPTION	ASSAY SUMMARY		Aug <sub>m</sub> <sup>3</sup>	Pt	Pd	Ru	Rh	Ir	Os
0	1.5m	1.5m	Grey-white stiff clay	AUGER	311631	<	x	x	4.5	0.7	2.2	12
1.5m	2.3m	0.8m	Grey clay + w. cherty limestone		327							
			Limestone basement at 2.3m	PAN	337	15	x	x	0.59	0.1	0.68	0.4

860074

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: **D. CHOY** MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: **Vert** BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_

SAMPLE TYPE: **AUGER** FIELD ENTRY BY: **D. C.** DATE: **28/2/87** LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /

PROJECT OR PROJECT: **ADAMSFIELD** AREA OR GRID NAME: \_\_\_\_\_

LOG No: **A** LOCATION ONLINE OR HOLE NUMBER: **A21-1000 m W** LOG PAGE: **1** OF **1**





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FIELD ENTRY  
LAB ENTRY

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		As	Pt	Pb	Cu	Zn	Cr	OS
0	20cm		Lignitic clay - black.	Black.	511640	x	x	0.7	3.8	0.7	0.7	x
	40cm		Brown lignitic clay									
	80cm		Light brown silty clay									
	1.3m		Light grey - white clay									
	1.5m		Gritty clay with granules of rounded quartz									
1.5	3 m.		Greenish white clay - very plastic		641	x	1.5	2.2	4.5	1.5	6.0	12
3	4.5m		Brown - orange clay.		642	x	1.5	1.5	3.8	1.5	3.8	3
4.5	6.0m		Brown - orange silty/sandy clay	ALU PAN	643 ? 644 ?	1.5	0.15	0.08	0.3	0.08	0.22	0.3
6.0	7.5m		Chromite bearing clay/sand layer	A	645 ?	x	x	0.65	1.34	0.33	x	x
7.5	7.9m		Chromite bearing sand and black sandstones.	A P	646 ? 647 ? 648 ?	x	0.2	0.2	0.71	0.2	x	x
			Green-black sandstone chips with chromite.									
			Sandstone basement at 7.9 m.									

MAP, AIR PHOTO OR DRAWING No.  
LOGGED BY: D. CHOI  
SAMPLE TYPE: AUGER

LINE B is 370 m S. of LINE A.  
MACHINE: \_\_\_\_\_  
INCLINATION OF COLLAR: Vert  
BEARING AT COLLAR: \_\_\_\_\_  
MAG / GRID: \_\_\_\_\_  
FIELD ENTRY BY: D.C.  
DATE: 1/13/51

PROSPECT OR PROJECT: ADAMS FIELD  
AREA OR GRID NAME: \_\_\_\_\_  
LINE NO.: B  
CORRELATION LINE OR HOLE NUMBER: B1-0m E  
LOG PAGE: 1 of 1

CHECK SAMPLE: \_\_\_\_\_  
LAB NOTES: \_\_\_\_\_  
CHEMIST: \_\_\_\_\_  
DATE: / /

860070

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FIELD 080  
LAB ENTRY

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN mg/m <sup>3</sup> UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT						
FROM	TO		ABBREV GEOL DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	As	Sb
0	1.5m	1.5m	Very soft black lignitic clay.		311652	X	0.7	0.7	3.0	0.7	X	X
1.5	3.0m	1.5m	Very soft brown clay		53	X	0.7	0.7	4.5	0.7	X	X
3.0	4.5m	1.5m	Yellow clay with sand, quartz and set. chips		54							
			PAN sample - with chromite and 1 colour of Osminidium		55	1.5	0.28	0.14	0.72	0.15	0.13	X
4.5	6.0m	1.5m	Sandy yellow clay		56							
			PAN - 2 pieces (1 large piece)		57	1.5	0.13	X	0.53	0.13	X	X
6.0	6.8m	0.8m	Sand (clayey) + Sandstone		58	1.5	0.38	0.42	1.52	0.4	0.38	X
			PAN - 2 large colours of Osminidium		59							
			Sandstone basement at 6.8m									

860077

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Choy

SAMPLE TYPE: Alger

PROSPECT OR PROJECT: Adamsfield

LINE No: B

LOCATION ON LINE OR HOLE NUMBER: B3 - 100 m E.

LOG PAGE: 1 OF 1

located 1/2 m. lower than B1

MACHINE: \_\_\_\_\_

INCLINATION AT COLLAR: Vert

BEARING AT COLLAR: \_\_\_\_\_

MAG/GRID: \_\_\_\_\_

FIELD ENTRY BY: D. C.

DATE: 2/13/87

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: 1 / 1

METALS EXPLORATION LIMITED

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FIELD ENTRY  
LAB ENTRY  
061  
No. 10

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN <sup>mg/m<sup>3</sup></sup> UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag <sub>0.01</sub>	Pt	Pb	Cu	Rh	Ir	Os
0	1.5m	1.5m	Stiff yellow and grey clay		311660	x	x	x	2.2	0.7	x	x
1.5	3.0m	1.5m	Stiff grey clay and yellow sands	PAN - No chromite or Osmiridium	61	x	2.2	2.2	5.2	1.5	0.7	x
3	4.5m	1.5m	Yellow sandy clay + sst / chert	PAN - 3 colours of Osmiridium	62 63	i.s.	0.89	0.32	0.91	0.27	0.43	0.4
4.5	5.3m	0.8m	Yellow gritty clay, sandstone + chert chips	PAN - 5 colours	64	x	126.0	1.5	330.0	18.0	2250	1470

860075

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Choy MACHINE \_\_\_\_\_

SAMPLE TYPE: Anger

PROSPECT OR PROJECT: Adamsfield

LIBE No: B

INCLINATION AT COLLAR: Vert BEARING AT COLLAR: \_\_\_\_\_

FILED ENTRY BY: D.C. DATE: 2/13/87

AREA OR GRID NAME: \_\_\_\_\_

LOCATION ON MAP OR GRID NUMBER: B5-200m E LOG PAGE: 1 of 1

CHECK SAMPLE: \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /



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LAB ENTRY  
FIELD NO. 002

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN ppm UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pd	Ru	Rh	Ir	Os
0	1.5m	1.5m	Lignitic clay		31165	0.06	2.25	1.5	3.75	0.75	0.75	<
1.5	3.0m	1.5m	White greenish clay.		666	x	1.5	0.75	4.5	0.75	9	12
3.0	4.4m	1.4m	Greenish clay - white with chips of sandstone basement.		667	x	0.21	x	0.86	0.17	0.47	0.9
			PAN sample with a lot of chromite, sandstone and chert chips		666							
			Bottomed on sandstone at 4.4m.									

860079

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: *D. Choy* MACHINE: \_\_\_\_\_

SAMPLE TYPE: *Anger*

INCLINATION AT COLLAR: *Vert* BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_

FIELD ENTRY BY: *D. C.* DATE: *2/3/87*

LAB. NOTES: \_\_\_\_\_

PROSPECT OR PROJECT: *Adamsfield* AREA OR GRID NAME: \_\_\_\_\_

LINE No: *B* LOCATION ON LINE OR HOLE NUMBER: *B7-300m E* LOG PAGE: *1 OF 1*

CHEMIST: \_\_\_\_\_ DATE: */ /*

CHECK SAMPLE: \_\_\_\_\_



FIELD ENTRY  
LAB ENTRY  
063

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED: X = BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		As	Pt	Pb	Cu	Zn	Ag	Au
0	1.5m	1.5m	Peaty black clay.		311669	x	x	x	3.0	x	1.5	x
1.5m	3.0m	1.5m	Gravel - sandstone / quartz, sandy.		707							
			PAN sample - 3 small colours of Osminidium, with chromite		711	1.5	<	0.18	0.75	x	0.19	x
3.0	4.5m	1.5m	Sandy gravel.		727	<	x	x	2.31	0.46	1.48	1.8
			PAN - 5 colours of Osminidium.	A P	731							
4.5	4.9m	0.4m	Gravelly, clayey fine sand	A P	747	x	<	0.36	0.54	0.11	0.28	x
	4.9m		Hit hard basement of sandstone		751							

860080

MAP, AIR PHOTO OR DRAWING No

LOGGED BY: D. Choy

MACHINE:

INCLINATION AT COLLAR: Vert

BEARING AT COLLAR:

MAG / GRID:

SAMPLE TYPE:

Auger

FIELD ENTRY BY: D.C.

DATE: 2/13/87

CHECK SAMPLE

LAB NOTES

CHEMIST:

DATE: / /



PROSPECT OR PROJECT: Adamsfield

AREA OR GRID NAME:

LINE No: B

LOCATION ON LINE OR HOLE NUMBER: B9 - 400 m E

LOG PAGE 1 OF 1

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FIELD ENTRY  
LAB ENTRY

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Au <sup>gr</sup>	Pt	Pd	Ru	Rh	Ir	Os
0	1.5m	1.5m	Black soil, white clay + yellow clay, sandy - stoney all 1.5m.		311676	X	X	0.7	3.0	0.7	1.5	X
1.5	3.0m	1.5m	Grey stiff clay, some greenish sand 2.95 - 3.00m depth.		77	X	X	0.7	3.0	0.7	X	X
3.0	4.5m	1.5m	Brittle, soft greenish grey clay PAN - 5 colours.	A. P.	782 791	1.5	<	0.08	0.32	0.08	X	X
4.5	6.0m	1.5m	Soft sandy clay - with chromite, pyrite, etc, quartzite + mudstone PAN sample		80 81	1.5	0.03	0.04	0.08	0.03	0.02	X
6.0	6.5m	0.5m	Coarse sand and sandstone gravel		82	1.5	<	0.13	0.54	0.12	X	X
	6.5m		Bottomed on chert limestone									
			6-6.5m. PAN sample		83							
			6.5m - Bottomed on chert limestone									

064

860081

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Choy MACHINE: \_\_\_\_\_

SAMPLE TYPE: Ringer

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: \_\_\_\_\_

INCLINATION AT COLLAR: Vert BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_

FIELD ENTRY BY: D. e. DATE: 3/3/87

CHECK SAMPLE: \_\_\_\_\_ LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_

LINE No: B LOCATION ON LINE OR HOLE NUMBER: B11 - 500m E LOG PAGE: 1 OF 1

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

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FIELD ENTRY  
LAB ENTRY  
005  
TUBE No

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Au gms <sup>-3</sup>	Pt	Pb	Cu	Rh	Ir	Ag
0	1.5m.	1.5m.	0-1.4m. Peaty, sandy clay		311684	X	2.2	1.5	5.2	1.5	0.7	X
			1.4-1.5m. Gravel.									
1.5	3.0m	1.5m	Soft grey clay		85	<	0.7	3.0	4.5	1.5	X	X
3.0	4.5m.	1.5m.	Muddy clay with quartzite gravel + chromite.		867							
			PAN - 3 pieces of Osmiridium	P	871	X	0.35	0.52	1.01	0.35	0.11	X
4.5	5.0m		FINE to COARSE SANDY/clayey sand with chromite	A P	887 891	X	1.31	1.95	3.36	1.2	0.48	X
			3 colours of Osmiridium + fresh pyrite.									
	5.0m		Sandstone basement.									

860082

MAP, AIR PHOTO OR DRAWING No

LOGGED BY: **D. CHOY** MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: **VERT** BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_

SAMPLE TYPE: **AUGER** FIELD ENTRY BY: **D.C.** DATE: **3/3/87**

PROSPECT OR PROJECT: **Adamsfield** AREA OR GRID NAME: \_\_\_\_\_

LINE No: **B** LOCATION ON LINE OR HOLE NUMBER: **B13 - 600 m E** LOG PAGE: **1 OF 1**

CHECK SAMPLE

LAB. NOTES:

CHEMIST: \_\_\_\_\_ DATE: / /



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FIELD ENTRY 066  
LAB ENTRY

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO	ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY	Aug <sup>3</sup>		Pt	Pd	Ru	Rh	Ir	Os	
0	1.5m	1.5m	Brown peaty clay and very fine sand.		311690	✓	0.7	1.5	5.2	1.5	0.7	x
1.5	3.0m	1.5m	Gravelly/sandy brown clay.		91	+	3.0	1.5	6.7	1.5	1.5	x
3.0	4.5m	1.5m	Green-grey gravelly clay, sandy PAN		927 931	x	0.13	0.25	0.76	0.13	0.13	x
4.5m	6.0m	1.5m	Gravelly sand PAN - chromite present		942 951	i.s.	0.35	0.3	0.73	0.12	0.31	x
6.0	7.5m	1.5m	Gravelly sand with chromite. PAN - chromite.		962 971	x	0.2	0.13	0.44	0.15	x	x
7.5	9.0m	1.5m	Gravelly, sandy clay PAN.		987 997	x	0.35	0.47	1.12	0.32	x	x
9.0	9.2m	0.2m	Gravel PAN Bottomed on Sandstone		311700 Z 7011	x	1.7	3.64	6.25	1.23	x	x

860083

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. CHOY MACHINE: \_\_\_\_\_

SAMPLE TYPE: AUGER FIELD ENTRY BY: D. C. DATE: 4/13/87

PROSPECT OR PROJECT: ADAMS FIELD AREA OR GRID NAME: \_\_\_\_\_

LINE No: B LOCATION ON LINE OR HOLE NUMBER: B15 - 700 m E LOG PAGE: 1 OF 1

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /

METALS EXPLORATION LIMITED

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FIELD ENTRY  
LAB ENTRY  
007

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT														
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pd	Ru	Rh	Ir	Sr								
0	1.5m	0-20 cm	Peat		2311702	X	1.5	1.5	5.2	1.5	0.7	X								
		20-130 cm	Hard, brown-black peaty clay, + very fine sand																	
		1.3-1.5m	Large gravel																	
			U.B. at 1.5m.																	

860084

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. CHOY MACHINE: \_\_\_\_\_

SAMPLE TYPE: AUGER INCLINATION AT COLLAR: VERT. BEARING AT COLLAR: \_\_\_\_\_ MAG/GRID: \_\_\_\_\_

FIELD ENTRY BY: D.C. DATE: 4/3/87 LAB. NOTES: \_\_\_\_\_

PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: \_\_\_\_\_

LINE No: B LOCATION ON LINE OR HOLE NUMBER: B17-800 m E LOG PAGE: 1 OF 1

CHEMIST: \_\_\_\_\_ DATE: / /



FIELD ENTRY 08  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT											
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	Fe	Gr					
0	1.5	1.5	Black peaty soil. Brown fine sandy clay Sticky yellow clay At 1.5m Unconsolidated gravel yellow sands cannot drill. - re-drilled 3m to south.		511735	X	97	37	4.5	0.7	37	X					
1.5	3	1.5	yellow sand, gravelly + pebbly clay. PAW chromite + 3 colours of OS.		7047 7051	X	107	0.4	0.7	0.61	0.92	0.1					
3	4.5		grey sandy clay. PAW chromite present.		7067 7071	X	0.15	0.32	0.5	0.13	0.2	X					
4.5	5.8		grey-brown sandy clay with grey-green basement (mainly ss + some chert). PAW - chromite + 2 colours of OS. chromite + OS. seem to be associated with ss		7087 7091		1.5	0.01	0.15	0.38	0.02	0.02	X				

MAP, AIR PHOTO OR DRAWING No: \_\_\_\_\_  
 LOGGED BY: D. CHOI  
 MACHINE: \_\_\_\_\_  
 SAMPLE TYPE: AUGER  
 INCLINATION AT COLLAR: VERT.  
 BEARING AT COLLAR: \_\_\_\_\_  
 MAG/GRID: \_\_\_\_\_  
 FIELD ENTRY BY: D. C.  
 DATE: 4/13/8  
 PROSPECT OR PROJECT: ADAMSFIELD  
 AREA OR GRID NAME: \_\_\_\_\_  
 LOCATION ON LINE OR HOLE NUMBER: B19 - 900m E  
 LOG PAGE 1 OF 1

CHECK SAMPLE: \_\_\_\_\_  
 LAB. NOTES: \_\_\_\_\_  
 CHEMIST: \_\_\_\_\_  
 DATE: / /



860085

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FIELD ENTRY  
LAB ENTRY  
069  
1  
JUNE

CO ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT												
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag <sub>2</sub> S	Pt	Pd	Ru	Rh	Ir	Os						
0	1.5m	1.5m	fine clay		710	x	1.5	3.0	3.2	1.5	1.5	x						
1.5	3	1.5m	gravelly white clay with sst pebbles.		711	<	0.7	2.2	4.5	0.7								
3	4.5	1.5m	gravelly white clay with large chromite crystals		712													
			chromite present.		713	x	x	0.23	0.64	0.13	x	x						
4.5	6	1.5m	sandy, sandy clay		714													
			6 cubes of chromite + chromite grains present.		715	x	x	0.23	0.34	0.09	0.09	x						
6	6.8	0.8	Fragments of sandstone green mudstone.		716													
			chromite present.		717	1.5	x	0.59	1.49	3.3	0.5	x						
			Bottomed on sst + mudstone at 6.8m															

860086

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY: D. CHOY  
SAMPLE TYPE: AUGER

MACHINE

INCLINATION AT COLLAR: VERT.

BEARING AT COLLAR

MAG / GRID

CHECK SAMPLE

FIELD ENTRY BY: D.C.

DATE: 1/18

LAB. NOTES:

CHEMIST:

DATE: / /

PROSPECT OR PROJECT: ADAMSFIELD

AREA OR GRID NAME

LINE No: B

LOCATION ON LINE OR HOLE NUMBER: B21 1000m E

LOG PAGE 1 OF 1

LOG & ANALYTICAL REPORT Sheet No. of A/O

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FIELD ENTRY  
LAB ENTRY  
070

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Rh	Ir	Ge	
Q	1.5	1.5m	Peat		A. 311718	0.05	X	X	1.5	X	X	X
1.5	3	1.5m	clayey peat + some yellow sand.		A. 19	0.03	60	22	30	0.7	X	-
3	3.9	0.9m	clayey fine sand. PAN - Chromite + Osmondium		A. 207 C. 211	15.	X	X	0.18	X	X	X
			At 3.9 HP hard basement of sandstone									

480098

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: **D. CHOI**

SAMPLE TYPE: **AUGER**

MACHINE: \_\_\_\_\_

INCLINATION AT COLLAR: **VERT.**

BEARING AT COLLAR: \_\_\_\_\_

MAG./GRID: \_\_\_\_\_

FIELD ENTRY BY: **G.A.**

DATE: **15/8/11**

PROSPECT OR PROJECT: **ADAMSFIELD**

AREA OR GRID NAME: \_\_\_\_\_

LINE No.: **B**

LOCATION ON LINE OR HOLE NUMBER: **B23 1070m E**

LOG PAGE: **1 OF 1**

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTLS: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: **1 / 1**



FIELD ENTRY  
LAB. ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X= BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	Ir	Os
0	1.5	1.5m	Peat + fine yellow/white clayey silt.		311722	0.08	X	3.0	3.8	0.7	X	X
1.5	3	1.5m	Partly black clay with fine + coarse sand. PART - 4 very fine grains of Os. E.O.H. at 3.0m on hard limestone	Ag Pb	723 724	0.011	0.04	0.39	0.1	X	X	X

0.7

880088

MAP, AIR PHOTO OR DRAWING No

LOGGED BY: D. CHAY  
SAMPLE TYPE: AUGER

MACHINE:

INCLINATION AT COLLAR: VERT.  
BEARING AT COLLAR:

MAG/GRID:

FIELD ENTRY BY: GA.

DATE: 6/1/87

CHECK SAMPLE

LAB. NOTES:

CHEMIST:

DATE: / /



PROSPECT OR PROJECT: ADAMS FIELD

AREA OR GRID NAME:

LINE No: C

LOCATION ON LINE OR HOLE NUMBER: C1 Gm W

LOG PAGE 1 OF 1

FIELD ENTRY  
LAB ENTRY  
072

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Au	Pt	Pb	Cu	Zn	Ir	Os		
0	1.5	1.5m	Very fine sand + silt. (part of levee bank)		311257									
			PAN - some chromite. - v. fine sand.		26	1.5	x	x	0.15	x	x	x		
1.5	3	1.5m	heavy band at 1.5m clayey sandy gravel pieces of quartz, quartzite, chert clasts.		27	0.09	5.02	0.63	2.38	0.53	0.57	x		
			PAN - 6 samples of v. fine OS.		28									
3	6	1.5m	clayey sand. PAN - 3 colours of OS. chromite present. sst with chert blebs.		297 301	x	0.2	0.53	0.61	0.15	0.09	x		
6	7.5	1.5m	sandy grey + yellow clay. PAN - few chromite xstals. - sands + chert.		317 321	x	x	0.48	0.82	0.17	x	x		
7.5	9	1.5m	sandy gritty clay. PAN - chromite & 4 fine colours of OS.		337 341	0.006	x	0.31	0.55	0.09	x	x		
9	10.5	1.5m	white sandy clay - v. well rounded quartzite. PAN - chromite.		357 361	1.5	x	0.55	0.59	0.12	x	x		

860089

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. CHOI MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: VERT BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_

SAMPLE TYPE: AURIFER FIELD ENTRY BY: \_\_\_\_\_ DATE: 10/13/67 LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_

PROJECT OR AREA OR GRID NAME: ADAMS FIELD

LINE No.: C LOCATION ON LINE OR HOLE NUMBER: C3 100m W LOG PAGE 1 OF 1

CHECK SAMPLE: \_\_\_\_\_

DATE: / /



METALS EXPLORATION LIMITED

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FIELD ENTRY  
LAB ENTRY  
073

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT											
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Average	Pt	Pt	Pt	Rh	I	Os					
0	1.5	1.5m	Rocky soil + orange brown clay sand + gravel at 1.0m. sand + large boulder at 1.5m.		311758	x	0.63	0.42	2.12	0.45	0.52	x					
			ll.B. at 1.5m.		39												
			RAW - 4 colours of Os. n recovered 5% chromite (from 5.2)														

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: **D. CHOI** MACHINE: \_\_\_\_\_

SAMPLE TYPE: **ALGER.** FIELD ENTRY BY: \_\_\_\_\_ DATE: **1/8**

PROSPECT OR PROJECT: **ADAMSFIELD** AREA OR GRID NAME: \_\_\_\_\_

LINE No: **C** LOCATION ON LINE OR HOLE NUMBER: **C5 200m W** LOG PAGE **1** OF **1**

CHECK SAMPLE: \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /



860090

FIELD ENTRY  
LAB ENTRY

METALS EXPLORATION LIMITED

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT							
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pb	Cu	Zn	Fe	As		
0	1.5	1.5m	Tertiary (?) greenish kaolinitic clay	white	A	311740	0.03	x	15	52	0.7	x	x
1.5	2.1	0.6m	Greenish white clay										
			Hole stopped in v. shff ? Tertiary	gn-wk clay	A	41	0.03	x	30	52	1.5	x	x

074

MAP, AIR PHOTO OR DRAWING No  
CORRECTED BY  
SAMPLE TYPE

D. CHOI  
AUGER

1.5m higher than CS edge of alluvial plain  
MACHINE:   
INCLINATION AT COLLAR:   
BEARING AT COLLAR:   
MAG/GRID:   
FIELD ENTRY BY: G.A.  
DATE: 10/3/87

CHECK SAMPLE  
LAB NOTES:  
CHEMIST:  
DATE: / /

PROSPECT OR PROJECT: ADAMS FIELD  
LINE No: C  
LOCATION ON LINE OR HOLE NUMBER: CT 300m W  
LOG PAGE: 1 OF 1

860091





FIELD ENTRY  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M UNLESS OTHERWISE STATED, X-BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pb	Cu	Zn	Fe	SS	0.78
0	1.3	1.3m	Peaty sand. Sand. Gravel.									
			Bottomed on limestone at 1.3m.		3117422 431	1.5	1.19	0.74	4.65	0.47	17.57	14.1
			pan (1/2 of soil) Curant + pyrite present. + 5% of heavy minerals (?)									

MAP, AIR PHOTO OR DRAWING No

LOGGED BY: **D. CHOY**

SAMPLE TYPE: **AUGER**

MACHINE: **On Adg grain auger after hump at C9**

INCLINATION AT COLLAR: **VERT**

BEARING AT COLLAR:

MAG./GRID:

FIELD ENTRY BY:

DATE: **13/8/87**

PROSPECT OR PROJECT: **ADAMSFIELD**

AREA OR GRID NAME:

LOCATION ON LINE OR HOLE NUMBER: **C11 500m W**

LOG PAGE 1 OF 1

CHECK SAMPLE

LAB NOTES:

CHEMIST:

DATE: / /

860093

FIELD ENTRY  
077  
LAB ENTRY

METALS EXPLORATION LIMITED

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT														
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Zn	Cu	As	Sb								
C	05	0-6m	Rocky sand. Sandy gravel (pebbly qtz). Large stones 30-60cm.		311744															
			Pan 6 colours of OS + Large chrome Xstals.		745															
			interest. Tertiary(?) white clay 0-6m.																	
			* For assay, interval of 1.5m been used.																	

860094

MAP, A.R. PHOTO OR DRAWING NO. \_\_\_\_\_

LOGGED BY: D. CHAY

SAMPLE TYPE: SURF

PROSPECT OR PROJECT: Adamofield

DATE: 2/3/87

MACHINE: \_\_\_\_\_

FIELD ENTRY BY: R.A.

INCLINATION AT COLLAR: vert.

BEARING AT COLLAR: \_\_\_\_\_

MAG/GRID: \_\_\_\_\_

AREA OR GRID NAME: \_\_\_\_\_

LOCATION ON LINE OR HOLE NUMBER: C13 600m W

LOGS PAGE: 1 of 1

CHECK SAMPLE: \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE:     /     /    



METALS EXPLORATION LIMITED

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FIELD ENTRY  
LAB ENTRY  
078

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT														
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Rh	As	Sb								
0	11m	11m	peat gravelly sandier clay.		311746															
			grey to greenish brown clay.																	
			20cm of top soil + peat			x	y	1.35	2.76	1.30	0.52	3.1								
			PAN 6 colours of OS.		311747															
			UB at 11m on large cobbles.																	

860095

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY

D. CHOI  
AUGER

SAMPLE TYPE

MACHINE

INCLINATION AT COLLAR VERT

BEARING AT COLLAR

MAG/GRID

FIELD ENTRY BY

DATE 7/3/8

CHECK SAMPLE

LAB NOTES

CHEMIST

DATE / /



PROSPECT OR PROJECT

ADAMSFIELD

AREA OR GRID NAME

LINE No

C

LOCATION ON LINE OR HOLE NUMBER

P15 700m W

LOG PAGE OF 1

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FIELD ENTRY 079  
LAB. ENTRY

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X - BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pb	Zn	Cu	Mo	As	
0	1m	1.0m	Gravelly sand. PAN 3 fine down of Os. (21 of sample)		3117487 7497	0016	017	087	088	034	X	X
			excavated hole - PAN show 1 down of Os. 0-20cm heavy clay + sandy gravel. Bottomed on tertiary (?) clay.									

860098

MAP, AIR PHOTO OR DRAWING NO.  
LOGGED BY: D. CHOD  
SAMPLE TYPE: RUBER  
MACHINE:  
FIELD ENTRY BY:  
INCLINATION AT COLLAR: Vert.  
BEARING AT COLLAR:  
MAG/GRID:  
DATE: 7/13/87  
PROSPECT OR PROJECT: ADAMSFIELD  
AREA OR GRID NAME:  
LINE No: C  
LOCATION ON LINE OR HOLE NUMBER: C17 - 800m W  
LOG PAGE: 1 OF 1

CHECK SAMPLE  
LAB. NOTES:  
CHEMIST:  
DATE: / /



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FIELD ENTRY  
LAB ENTRY  
030

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X-BELOW DETECTION LIMIT												
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pb	Cu	Zn	As	Sb							
0	0.2m	20cm	Peaty soil.															
20cm	80cm	0.6m	Passing to cobbly gravel. Hard cobbly gravel at 0.8m.		311750	X	3.95	17	19.27	0.73	47.62	80						
			UB on hard cobbly gravel at 0.8m.															
			FAN - 1 good colour of Os, 1/2mm diam		311751													

860097

MAP, AIR PHOTO OR DRAWING No: \_\_\_\_\_

LOGGED BY: *D. CHOY*

SAMPLE TYPE: *Auger*

PROSPECT OR PROJECT: *Adamsfield*

LINE No: *C*

MACHINE: \_\_\_\_\_

FIELD ENTRY BY: *A.A.*

LOCATION ON LINE OR HOLE NUMBER: *C19 900m W*

INCLINATION AT COLLAR: *vert*

BEARING AT COLLAR: \_\_\_\_\_

DATE: *17/3/87*

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: / /

LOG & ANALYTICAL REPORT Sheet No. *1* of *A/O*



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FIELD ENTRY  
LAB ENTRY  
081

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pd	Ru	Rh	Ir	Sr
0	1	1m	Beaky soil + clay.		A. 311752	X	X	30	38	15	07	X
			Outcrop of tertiary clay?									

MACHINE: *1m higher than C19*  
 INCLINATION AT COLLAR: *UP.F.*  
 BEARING AT COLLAR:  
 MAG/GRID:  
 FIELD ENTRY BY:  
 DATE: *7/13/87*  
 CHECK SAMPLE:  
 LAB. NOTES:  
 CHEMIST:  
 DATE: / /  
 PROSPECT OR PROJECT: *Adamsfield*  
 AREA OR GRID NAME:  
 LINE NO: *C*  
 LOCATION ON LINE OR HOLE NUMBER: *C21 1000m W*  
 LOG PAGE 1 OF 1



860098

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FIELD ENTRY  
LAB. ENTRY  
082

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pb	Pm	Cu	Zn	Fe	Os		
0	1m	1m	Brownish clay - Tertiary(?) clay white.		311753	0.05	x	3.0	5.2	0.7	0.7	x		
			* Anal. done 0-06m.											

660098

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY: D. CHOY

SAMPLE TYPE: AUER

PROSPECT OR PROJECT: ADAMSFIELD

LINE No: C

1m higher than C21

MACHINE:

INCLINATION AT COLLAR: VERT.

BEARING AT COLLAR:

MAG/GRID:

FIELD ENTRY BY:

DATE: 3/5/87

CHECK SAMPLE

LAB NOTES:

CHEMIST:

DATE: / /



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FIELD ENTRY  
LAB ENTRY

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT						
FROM	TO				ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY	Aug	H	Pb	Ru	Rh
0	1.1m	1.1m	Peaty soil Bottomed at 1.1m. - tertiary(?) white clay	311754	X	X	4.5	4.5	1.5	3.0	X

083

860400

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. CHRY MACHINE: \_\_\_\_\_

SAMPLE TYPE: AUGER

INCLINATION AT COLLAR: Vert. BEARING AT COLLAR: \_\_\_\_\_

MAG./GRID: \_\_\_\_\_ DATE: 13/87

FIELD ENTRY BY: \_\_\_\_\_

CHECK SAMPLE: \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: / /

PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: \_\_\_\_\_

LOCATION ON LINE OR HOLE NUMBER: D1 LOG PAGE 1 OF 1

LINE No: D



FIELD ENTRY  
LAB ENTRY  
084

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pb	Cu	Zn	Ir	Os	
0	1.2m	1.2m	Block peaty clay + gill		7-11755	0.06	X	3.0	4.5	0.7	1.5	X
2	1.5m	0.3m	Block									
1.5	2.0	0.5m	Tertiary white clay		311756	0.05	X	4.5	3.8	0.7	1.5	X

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: *D. Chay* MACHINE: \_\_\_\_\_

SAMPLE TYPE: *Acid* FIELD ENTRY BY: \_\_\_\_\_ DATE: *1/15/87*

PROSPECT OR PROJECT: *A. Mansfield* AREA OR GRID NAME: \_\_\_\_\_

LINE No: *D* LOCATION ON LINE OR HOLE NUMBER: *D3 100m E* LOG PAGE: *1* OF *1*

*on slope of a terrace. 1m lower than D1*

CHECK SAMPLE \_\_\_\_\_

LAB NOTES \_\_\_\_\_

CHEMIST \_\_\_\_\_

DATE: *1 / 1*



860101

FIELD ENTRY 085

LAB ENTRY

METALS EXPLORATION LIMITED

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X - BELOW DETECTION LIMIT							
FROM	TO		ABBRLV GEOL. DESCRIPTION	ASSAY SUMMARY		As	Pb	Pd	Ru	Rh	Li	Sr	
0	1.5m	1.5m	0.5m of Black peaty clay fine brown coarse pebbly sand.		311757	0.06	2.2	6.7	12.0	2.2	4.5		
1.5	1.9	0.4	sand + gravel. at 1.9m ? Tertiary white clay		311758	<	<	38	3.0	0.7			

MAP, AIR PHOTO OR DRAWING NO. *D. CHOKY*

LOGGED BY: *D. CHOKY* MACHINE: \_\_\_\_\_

SAMPLE TYPE: *ALDR*

FIELD ENTRY BY: \_\_\_\_\_ DATE: *1/13/87*

INCLINATION AT COLLAR: *vert.* BEARING AT COLLAR: \_\_\_\_\_ MAG/GRID: \_\_\_\_\_

PROSPECT OR PROJECT: *ADAMSFIELD* AREA OR GRID NAME: \_\_\_\_\_

LINE No: *D* LOCATION ON LINE OR HOLE NUMBER: *05 209m E* LOG PAGE: *1* OF *1*

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /

860102



FIELD ENTRY 088  
LAB. ENTRY  
PROJECT

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT												
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Au <sup>gr</sup>	Pt	Pb	Cu	Zn	Ag	Bi						
0	0.75 0.8m	0.75m 0.85m	Black peaty clay gravel.		311759	0.06	x	38	45	1.5	0.7	x						
			u.B on large gravel at 0.8m.															

AP. AIR PHOTO OR DRAWING No. *0. CH04*

LOGGED BY: *ALGER*

SAMPLE TYPE: *ALGER*

MACHINE: *0.5m lower than 05*

INCLINATION AT COLLAR: *vert.*

BEARING AT COLLAR: \_\_\_\_\_

MAG./GRID: \_\_\_\_\_

FIELD ENTRY BY: \_\_\_\_\_

DATE: *13/67*

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: / /



PROSPECT OR PROJECT: *Adamsfield*

AREA OR GRID NAME: \_\_\_\_\_

LINE No: *1*

LOCATION ON LINE OR HOLE NUMBER: *07 300m E*

LOG PAGE: \_\_\_\_\_ OF \_\_\_\_\_

860103

FIELD ENTRY  
LAB ENTRY  
087

METALS EXPLORATION LIMITED

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag <sup>+</sup>	Pt	Pb	Cu	Rh	Ir	Os		
0	0.3	30cm	Peaty clay											
	0.6	50cm	Stony sands											
	2.9	30cm	Brown clay											
	1.5	60cm	Koolinitic white clay.		511760	0.05	X	3.0	3.8	0.7	X	X		
			At 1.5m bottomed on (?) Tert. clay											
15	3		(?)		311761	0.05	X	7.0	7.5	1.5	X	X		

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. CHH

SAMPLE TYPE: Auger

PROSPECT OR PROJECT: Adamsfield

LINE No: D

MACHINE: \_\_\_\_\_

INCLINATION AT COLLAR: WEST

BEARING AT COLLAR: \_\_\_\_\_

MAG./GRID: \_\_\_\_\_

FIELD ENTRY BY: \_\_\_\_\_

DATE: 7/13/67

CHECK SAMPLE: \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: / /

LOCATION ON LINE OR HOLE NUMBER: D9 400m E

LOG PAGE ' 1 ' OF ' 1 '

LOG & ANALYTICAL REPORT Sheet No. \_\_\_\_\_ of A/O \_\_\_\_\_

860104



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FIELD ENTRY  
LAB ENTRY  
038

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT												
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Dr	Ru	Rh	Ir	Os						
0	1m	1m	Peat															
			Coarse sand with chromite third strong layer Brown sand.		311762	297	X	65	38	57	1	X						
			in B at 1m on old "deep off" point															
			PAN chromite + 10 pebbles of Os. (from 3 d)		311769	-		16.5	15	45	45	210	99					
			panned orange clay - abundant chromite															
			(combined)															
						<del>0.016</del>	<del>3.73</del>	1.47	1.88	1.18	475	22.4						

VAP, AIR PHOTO OR DRAWING NO. \_\_\_\_\_

LOGGED BY: D CHSY

SAMPLE TYPE: AUGER

PROSPECT OR PROJECT: Adamsfield

LINE No: D

MACHINE: \_\_\_\_\_

INCLINATION AT COLLAR: vert.

BEARING AT COLLAR: \_\_\_\_\_

MAG/GRID: \_\_\_\_\_

FIELD ENTRY BY: \_\_\_\_\_

DATE: 13/87

AREA OR GRID NAME: \_\_\_\_\_

LOCATION ON LINE OR HOLE NUMBER: D11 500m E

LOG PAGE ' OF ' \_\_\_\_\_

CHECK SAMPLE: \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: / /

LOG & ANALYTICAL REPORT Sheet No. \_\_\_\_\_ of A/O

860103

FIELD ENTRY  
LAB. ENTRY  
0839

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pb	Cu	Zn	Al	DS	
3.0	3.1	1.1m	peat sand Gravelly sand.		3117632 64.1	0.311	+	1.412	1.412	0.27	0.17	X
			cub. at 1.1m on large cobbles. * at 550m mark → lots of "diagen" pits. - these have grown on underlying kaolinitic clay.									

860106

MAP, A.R. PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. CHOI

SAMPLE TYPE: Acidic

MACHINE: \_\_\_\_\_

INCLINATION AT COLLAR: VERT

BEARING AT COLLAR: \_\_\_\_\_

MAG./GRID: \_\_\_\_\_

FIELD ENTRY BY: \_\_\_\_\_

DATE: 17/3/8

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: 1 / 1

PROSPECT OR PROJECT: Adamofield

AREA OR GRID NAME: \_\_\_\_\_

LINE No: D

LOCATION ON LINE OR HOLE NUMBER: 012 550m E

LOG PAGE OF: \_\_\_\_\_



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FIELD ENTRY  
LAB ENTRY  
090

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X = BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	As	Sb
0	1.5m	1.5m	peaty clay <del>greenish clay</del>	white kaolinitic clay at 1.5m	311765	x	1.5	4.5	52	1.5	6.7	x
1.5	3m	1.5m	white (greenish) soft bottomed in white	kaolinitic clay ? tent. clay	311766	<	x	22	3.8	0.7	x	x

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: G. CHOI

SAMPLE TYPE: AUGER

PROSPECT OR PROJECT: Adamsfield

LINE No.: D

MACHINE: \_\_\_\_\_

FIELD ENTRY BY: \_\_\_\_\_

DATE: 7/3/8

INCLINATION AT COLLAR: VERT.

BEARING AT COLLAR: \_\_\_\_\_

MAG./GRID: \_\_\_\_\_

LOCATION ON LINE OR HOLE NUMBER: D13 600m E

LOG PAGE 1 OF 1

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: / /



860107

FIELD ENTRY  
LAB ENTRY  
161  
T-Stamp No

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CO ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Zn	Cu	Rh	Mo
0	20cm	20cm	Black peat.									
	40cm	20cm	Fine sand with chromite.		311767							
	60cm	20cm	Hard gravel - cemented.			x	336	211	588	13	126	x
			PAN - (42) - revealed lot of chromite		311768							
			u.B. on gravel									

MAP, AIR PHOTO IN DRAWING No  
LOGGED BY: D. CHOY  
SAMPLE TYPE: A.C.R.F.  
PROSPECT OR PROJECT: Adamsfield  
GRID ID: D

elevation 1m higher than D13  
MACHINE: [blank]  
INCLINATION AT COLLAR: VERT  
BEARING AT COLLAR: [blank]  
MAG./GRID: [blank]  
DATE: 1/5/87  
FIELD ENTRY BY: [blank]  
AREA OR GRID NAME: D13 700m E  
LOCATION ON LINE OR HOLE NUMBER: [blank]

CHECK SAMPLE: [blank]  
LAB NOTES: [blank]  
CHEMIST: [blank]  
DATE: / /

860108



FIELD ENTRY 092  
LAB. ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT											
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	As	S					
0	04m	430m	Peat + fir to coarse sand		311770	006	15	22	82	13	22	X					
			WB on cobbles.														

VAP. AIR PHOTO OR DRAWING No.  
 LOGGED BY: *J. CHOM*  
 SAMPLE TYPE: *QUICK*

MACHINE

INCLINATION AT COLLAR *VERT.*

BEARING AT COLLAR

MAG./GRID

CHECK SAMPLE

FIELD ENTRY BY:

DATE: *1/2/80*

LAB NOTES

CHEMIST

DATE: / /

PROSPECT OR PROJECT

AREA OR GRID NAME

LINE No: *E*

LOCATION ON LINE OR HOLE NUMBER *R1*

*Jim W*

LOG PAGE 1 OF 1

LOG & ANALYTICAL REPORT Sheet No. of A/O

860109



FIELD ENTRY  
LAB ENTRY  
093

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; * BELOW DETECTION LIMIT													
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pd	Ru	Lh	Ir	Cs							
0	0.2m	20cm	Peaty soil		A														
	0.3	10cm	Fine sand with chromite + fragments of vein quartz		A P <sub>2</sub>	511771 72.1	0.02	1.49	5.75	6.87	1.30	1.40	X						
	0.5m		at 0.5m hard compact gravel of sst, qtzite + vein qtz + rept qtzite. very hard. UB on gravel.																

860110

APP. AIR PHOTO OR DRAWING NO. \_\_\_\_\_

LOGGED BY: D. PHOY

SAMPLE TYPE: AUGER

PROSPECT OR PROJECT: Adamsfield

FIELD ENTRY BY: \_\_\_\_\_ DATE: 19/38

AREA OR GRID NAME: E3 100m W

LOCATION ON LINE OR HOLE NUMBER: \_\_\_\_\_

INCLINATION AT COLLAR: vert.

BEARING AT COLLAR: \_\_\_\_\_

MAG/GRID: \_\_\_\_\_

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: / /



METALS EXPLORATION LIMITED

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FIELD ENTRY  
LAB ENTRY  
094

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT												
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Auger	PE	Pb	Cu	Zn	As	Sb						
0	0.8m	80m	Peat, fine sand Chromite bearing		A 311773													
			u.B on cobbles			x	4.43	1.61	26.6	172	115.08	80.2						
			RAW - 2 coils of Dismantling		311775													

APR, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. CHOI MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: Vert. BEARING AT COLLAR: \_\_\_\_\_ MAG/GRID: \_\_\_\_\_

SAMPLE TYPE: Auger FIELD ENTRY BY: \_\_\_\_\_ DATE: 1/2/88 LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: \_\_\_\_\_

LINE No: E LOCATION ON LINE OR HOLE NUMBER: E5 200m W LOG PAGE 1 OF 1



860111

FIELD ENTRY  
LAB ENTRY  
095

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	As	Pb	Cd	Cu	Zn
0	0.5m	0.5m	Peat, fine sand cobbles. chromite bearing.		A 311774	X	1.5	3.0	10.5	2.2	2.2	X
			urb. on cobbles									

860112

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_  
 LOGGED BY: D. Clary MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: \_\_\_\_\_ BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_  
 SAMPLE TYPE: ANAL. FIELD ENTRY BY: \_\_\_\_\_ DATE: 19/3/87 LAB. NOTES: \_\_\_\_\_ CHECK SAMPLE: \_\_\_\_\_  
 PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: \_\_\_\_\_ LOCATION ON LINE OR HOLE NUMBER: E7 300m W LOG PAGE: 1 of 1 CHEMIST: \_\_\_\_\_ DATE: / /  


METALS EXPLORATION LIMITED

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FIELD ENTRY  
LAB ENTRY  
0036  
TUBE No.

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	As	Os
0	1.5m	1.5m	PEAT 20cm. FINE SAND.	A. P21	3117747 777	0.008	0.16	0.58	1.08	0.16	1.03	X
15	2.1	0.6m	DAN 2 columns of Os + chromite. (panned 5.0) FINE SAND then into white silty clay. U.B. unable to further auger.	A. P	7787 7791	X	1.74	1.77	4.13	0.89	2.99	1.5

860113

MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: vert BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_  
 LOGGED BY: D. CHISHAM FIELD ENTRY BY: \_\_\_\_\_ DATE: 19.12.87  
 SAMPLE TYPE: AUGER CHECK SAMPLE: \_\_\_\_\_ LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /  
 PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: \_\_\_\_\_  
 LINE No: K LOCATION ON LINE OR HOLE NUMBER: E-9 400m W LOG PAGE 1 OF 1  
**LOG & ANALYTICAL REPORT Sheet No. of A/O**



FIELD ENTRY LAB ENTRY 0097

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X-BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Average	Pt	Pt	Re	Rh	U	JS (mg/m <sup>2</sup> )
0	1.4m	1.4m	peat keri sandy clay (mudlog) peat white clay.		3117802 2.1	✓	341	567	187	378	0.0	X
			RAW - from 15.2 of sample.									
			Hard rock - CB of 14m or cobbles/boulders.									

MAP, AIR PHOTO OR DRAWING No

LOGGED BY

SAMPLE TYPE

PROSPECT OR PROJECT

LINE No

lots of chromite adjacent to creek bed / old workings.

MACHINE

INCLINATION AT COLLAR

VERT.

BEARING AT COLLAR

MAG/GRID

FIELD ENTRY BY

DATE 03/81

CHECK SAMPLE

LAB. NOTES

CHEMIST

DATE / /



ADAMSFIELD

AREA OR GRID NAME

LOCATION ON LINE OR HOLE NUMBER

R11 500m W

LOG PAGE 1 OF 1

860114

FIELD ENTRY  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT														
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	As									
0	1.5m	1.5m	Peat Orange sand Peat Fine sand.																	
1.5m	2.1m	0.6m	V. fine sand + thin silty white clay. PAN - 2 colours of Os. (22) UB on white clay - unable to auger further.	A PAN.	3117827 7831	X	0.58	0.69	1.72	0.51	0.45	X								
					7847 7851	X	1.15	2.56	4.97	0.95	0.14	X								

098

860115

AIR PHOTO  
DRAWING No.

LOGGED BY: *D. CHOI*  
SAMPLE TYPE: *AUGER*

MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: *vert* BEARING AT COLLAR: \_\_\_\_\_ MAG/GRID: \_\_\_\_\_  
FIELD ENTRY BY: \_\_\_\_\_ DATE: *15/8*

PROSPECT OR PROJECT: *Adamsfield* AREA OR GRID NAME: \_\_\_\_\_  
LINE No: *E* LOCATION ON LINE OR HOLE NUMBER: *E13 6.00m W* LOG PAGE: *1* OF *1*

CHECK SAMPLE: \_\_\_\_\_ LAB NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: */ /*



METALS EXPLORATION LIMITED

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mag m<sup>-3</sup>

FIELD ENTRY  
LAB ENTRY  
099

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X = BELOW DETECTION LIMIT														
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	Fe	IS								
0	1.5m	1.5m	peat, clay - peaty clay																	
			At 1.3m Heavy then fine white sand.	A	3117862	X	0.40	0.43	129	0.42	0.42	X								
			WS on cobbles. (1.5m)	Pen	3117871															

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY:

SAMPLE NO.



D. CHOY  
AUGER

MACHINE

100m N of E13

INCLINATION AT COLLAR West

BEARING AT COLLAR

MAG./GRID

FIELD ENTRY BY:

DATE 19/8/87

CHECK SAMPLE

LAB NOTES:

CHEMIST

DATE: / /

PROJECT OR PROPERTY

Adamsfield

AREA OR GRID NAME

LINE No.

E

LOCATION ON LINE OR HOLE NUMBER

E15 100m N

LOG PAGE 1 OF 1

LOG & ANALYTICAL REPORT Sheet No. of A/O

860116

FIELD ENTRY 100  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Auger	Pt	Pd	Ru	Rh	Ir	Os
0	1.5	1.5m	Peat / fine brown sand.	Auger	311788	x	1.5	3.8	6.7	2.2	2.2	x
1.5	1.7m	0.2m	fine sand.									
			UB on collars at 1.7m.	Auger	311789	0.07	1.5	1.5	7.5	1.5	9.1	9

MAP, AIR PHOTO OR DRAWING No.  
LOGGED BY: D CH04  
SAMPLE TYPE: AUGER



MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: Vert. BEARING AT COLLAR: \_\_\_\_\_ MAG/GRID: \_\_\_\_\_  
 FIELD ENTRY BY: \_\_\_\_\_ DATE: 19/3/67  
 PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: \_\_\_\_\_  
 LINE No: E LOCATION ON LINE OR HOLE NUMBER: EIT 200m N LOG PAGE: 1 of 1

CHECK SAMPLE: \_\_\_\_\_ LAB NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /

860117

FIELD ENTRY  
LAB ENTRY  
-01  
20 MIBC 1

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV GEOL DESCRIPTION	ASSAY SUMMARY		Auger	Pt	Pb	Cu	Zn	Cr	Os
0	1.5m	1.5m	PEAT Orange sandy clay									
			At 1.2m stiff white clay									
			1.2-1.5m Heavy gravelly layer									
			PAW - 1 colour of Os. sandy	Auger PAW	3117907 911	x	x	0.64	1.31	0.16	0.48	x
1.5	3	1.5m	sandy grey clay	A	922							
			PAW - 20 5 small colour of Os	P	931	x	0.33	0.47	1.29	0.51	0.41	x
3	4.5m	1.5m	Crittle grey clay (with limestone cobbles) Basement at 4.5m.	A	94	x	x	2.2	4.5	0.7	0.7	x

860118

MAP, AIR PHOTO OR DRAWING No. **D. CH04**

LOGGED BY: **D. CH04**

MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: **VERT** BEARING AT COLLAR: \_\_\_\_\_ MAG/GRID: \_\_\_\_\_

SAMPLE TYPE: **AUGER**

FIELD ENTRY BY: \_\_\_\_\_ DATE: **1/1/87**

LAB NOTES: \_\_\_\_\_ CHECK SAMPLE: \_\_\_\_\_

PROJECT OR PRODUCT: **ADAMSFIELD** AREA OR GRID NAME: \_\_\_\_\_

LOCATION ON LINE OR HOLE NUMBER: **E** **E19 300m N** LOG PAGE **1** OF **1**

CHEMIST: \_\_\_\_\_ DATE: / /



FIELD ENTRY  
LAB ENTRY

METALS EXPLORATION LIMITED

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT												
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	Ir	Os						
0	1.5m	1.5m	clayey peat fine sand 20-22 g. d.															
12	15	12-15m	clayey peat layer		311833													
			on level ground at 15m. u.B. at 15m. PAN - from 2.2 of sample.		311834	X	0.19	0.43	0.12	X	0.06	X						

860119

AIR PHOTO DRAWING No. [ ]  
 LOGGED BY: D. CHASE  
 SAMPLE TYPE: AUGER  
 MACHINE: on flat swampy ground.  
 INCLINATION AT COLLAR: [ ]  
 BEARING AT COLLAR: [ ]  
 MAG./GRID: [ ]  
 FIELD ENTRY BY: [ ]  
 DATE: 3/3/87  
 CHECK SAMPLE: [ ]  
 LAB. NOTES: [ ]  
 CHEMIST: [ ]  
 DATE: / /

PROSPECT OR PROJECT: NOAMSFIELD  
 AREA OR GRID NAME: [ ]  
 LOCATION ON LINE OR HOLE NUMBER: E 21 700m W  
 LOG PAGE 1 OF 1

FIELD ENTRY  
LAB ENTRY  
100

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL DESCRIPTION	ASSAY SUMMARY		Aug	Pt	Pt	Rh	Rh	Ir	Os
C-E	135m	1-5m	Peat + fine sand coarse orange sand peaty sand peaty clay + sand		311835							
			PN (2L) - 2' colour of Os chromite granules + 1st plodder granules	Presence of	836	X	0.36	0.36	1.03	X	0.6	X
			sand + gravel (clayey) orange clay at 3m		837							
			PN (3L) chromite present		838	X	0.41	0.74	1.43	X	0.34	X
			A.B. at 30m on gravel									

860130

AP, AIR PHOTO OR DRAWING No. **D. CH04**

LOGGED BY: **D. CH04** MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: **Vert.** BEARING AT COLLAR: \_\_\_\_\_ MAG/GRID: \_\_\_\_\_

SAMPLE TYPE: **DRILLER** FIELD ENTRY BY: **G.A.** DATE: **3/3/87** CHECK SAMPLE: \_\_\_\_\_

LAB NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /



PROSPECT OR PROJECT: **ADAMSFIELD** AREA OR GRID NAME: \_\_\_\_\_

LINE No: **E** LOCATION ON LINE OR HOLE NUMBER: **E23 800m W** LOG PAGE: **1 of 1**

FIELD ENTRY  
LAB ENTRY  
104

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT											
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Ru	Rh	Ir	Os						
00	1.5m	1.5m	peat														
			clayey peat		311839	X	15	15	52	X	3.0	X					
1.5	2.7m	1.2m	peaty sandy clay grey silty clay brown clayey fine sand 10:1R hard gravel/boulders at 2.7m. Gzite pebbles (rounded) + sandstone pebbles recovered.		311840	X	167	048	1344	041	27.65	316					
			PAN (12) chromite present.		311841												
			U.S. at 2.7m on pebbles.														

860121

AP, AIR PHOTO IN DRAWING No. **0 CH01.**

LOGGED BY: **ALGER** MACHINE: \_\_\_\_\_ INCLINATION AT COLLAR: \_\_\_\_\_ BEARING AT COLLAR: \_\_\_\_\_ MAG/GRID: \_\_\_\_\_

SAMPLE TYPE: **ALGER** FIELD ENTRY BY: \_\_\_\_\_ DATE: **31/3/81** LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_

PROSPECT OR PROJECT: **ADAMSFIELD** AREA OR GRID NAME: \_\_\_\_\_

LINE No: **E** LOCATION ON LINE OR HOLE NUMBER: **E25 900m W** LOG PAGE **1 OF 1**

CHECK SAMPLE: \_\_\_\_\_

DATE: / /

FIELD ENTRY  
105  
LAB ENTRY

METALS EXPLORATION LIMITED

HEAD OFFICE COPY

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X* BELOW DETECTION LIMIT								
FROM	TO		ABBREV GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Fe	Zn	As		
E1	1.5m	1.5m	15cm Peaty soil 15cm Clay 30cm Orange/brown clay 60cm " yellow silty clay		311842	x	07	22	30	x	30	x		
1.5	3.0m	1.5m	yellow clay continuity at 2.7m At 3.2m limestone fragments appear Hit hard solid limestone basement	(1.5-3.2m)	311843	x	22	67	22	x	67	x		

AP AIR PHOTO OR DRAWING No. **D.CH04**

LOGGED BY: **D.CH04**

MACHINE: **2m higher elevation than E25**

INCLINATION AT COLLAR: **vert.**

BEARING AT COLLAR:

MAG/GRID:

CHECK SAMPLE:

LAB NOTES:

DATE: **1/58**

FIELD ENTRY BY:

CHEMIST:

DATE: / /

PROSPECT OR PROJECT: **ADAMSFIELD**

AREA OR GRID NAME:

LINE No: **E**

LOCATION ON LINE OR HOLE NUMBER: **E27**

LOG PAGE: **1 of 1**

860122

FIELD EN

100

# METALS EXPLORATION LIMITED

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AMPLES :

THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED  
① Diamond drilling, use HOLE NUMBER, FROM/TO INTERVAL, ABBREV.GEOL. DESCRIPTION. This form is not to be used for a detailed DDH log.  
② Soil sampling down grid lines, use LINE No., CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
③ Rotary or blast drilling, use HOLE NUMBER, FROM/TO INTERVAL, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.

LINE	CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT											
	FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pb	Pt	Cu	Zn	Ir	Se					
1	0	1.5m	1.5m	peat 20cm														
2				Peaty clay 1.5m														
3				white kaolinitic clay		311796	x	x	15	45	x	x	x					
4				U.B. on sandstone cobbles at 1.5m														

860123

CHECK SAMPLE

LAB NOTES:

CHEMIST

DATE / /

MAP OR PHOTO OR DRAWING No

LOGGED BY: D. CHOI

SAMPLE TYPE: Auger

MACHINE: 1/2 m Auger than F13

INCLINATION AT COLLAR: Vert

BEARING AT COLLAR

MAG / GRID

DATE: 19/3/81

FIELD ENTRY BY

AREA OR GRID NAME



PROSPECT OR PROJECT: ADAMSFIELD

LINE No: F

LOCATION ON LINE OR HOLE NUMBER: F5 550m W

LOG PAGE: 1 OF 1

METALS EXPLORATION LIMITED

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FIELD ENT

LINE	CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN <sup>micrograms</sup> UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT							
	FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pb	Cu	Zn	Ir	Os		
1	0	1.5m	1.5m	peat + peaty clay										
2				Brown clay										
3				stiff brown clay	Auger	311797	x	x	1.5	3.8	0.7	x	x	
4				fine sand at 1.8m										
5														
6	1.5	3	1.5m	yellow to white gritty silty clay.	Auger	98	x	37.5	3.0	3.8	0.7	x	x	
7														
8														
9	3	3.2	0.2m	u.s. at 3.2m on cobbles										
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														

THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED.  
 ① Downhole drilling, use HOLE NUMBER, FROM/TO, INTERVAL, ABBREV. GEOL. DESCRIPTION. This form is not to be used for a detailed DDH log.  
 ② Soil sampling along grid lines, use LINE No., CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
 ③ Rotary air blast drilling, use HOLE NUMBER, blank box for collar co-ords, FROM/TO, INTERVAL, GEOLOGICAL DESCRIPTION OF SAMPLE.

CHECK SAMPLE F

LAB NOTES:

CHEMIST: /

DATE: /

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY: **D. CHOY**

SAMPLE TYPE: **AUGER**

PROSPECT OR PROJECT: **Adamsfield**

LINE No.: **F**

MACHINE: **flor (over), slightly rising**

INCLINATION AT COLLAR: **vert**

BEARING AT COLLAR:

FIELD ENTRY BY:

DATE: **19/3/87**

MAG./GRID:

AREA OR GRID NAME:

LOCATION ON LINE OR HOLE NUMBER: **F17 650m W**

LOG PAGE 1 OF 1

860124



FIELD EN

108

# METALS EXPLORATION LIMITED

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SAMPLES

THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED  
① Diamond drilling, use HOLE NUMBER, FROM/TO, INTERVAL, ABBREV.GEOL. DESCRIPTION. This form is not to be used for a detailed DDH log  
② Soil sampling along grid lines, use LINE No, CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
③ Rotary or blast drilling, use HOLE NUMBER, Bore dia for collar, co-ords, FROM/TO, INTERVAL, GEOLOGICAL DESCRIPTION OF SAMPLE

LINE	CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT											
	FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pd	Ru	Rh	Ir	Os					
1	0	1.0m	1.0m	30cm	Black peaty soil + brown clay													
2					Brown clayey silt.													
3					coarse sand, gravelly; light brown fine sand													
4					coarse gravel.													
5	1.3	0.3	0.3		White sandy pebbly gravel. hard gravel.													
6	1.5	0.2	0.2		grey sandy pebbly gravel - sandstone pebbles	3118057	x	x	0.83	0.6	x	0.05	x					
7					ANAL (n1) - H colours of G.	3118061												
8	1.5	1.6	0.1		Gravel	AUGER 311807	x	2.2	4.5	12.7	1.5	6.5	3.3					
9					0.8 at 1.6m.													

860125

CHECK SAMPLE

LAB NOTES

CHEMIST

DATE

MAP, AIR PHOTO OR DRAWING No

LOGGED BY: **D CHOI**

MACHINE: **AUGER**

INCLINATION AT COLLAR: **Vert.**

BEARING AT COLLAR

MAG/GRID

DATE: **13/8**

FIELD ENTRY BY:

PROSPECT OR PROJECT: **ADAMSFIELD**

AREA OR GRID NAME

LOCATION ON LINE OR HOLE NUMBER: **E11 350m IN**

LOG PAGE 1 OF 1



FIELD EN

# METALS EXPLORATION LIMITED

HEAD OFFICE COPY

100

AMPLES  
THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED  
① Diamond drilling, use HOLE NUMBER, FROM/TO, INTERVAL, ABBREV. GEOL. DESCRIPTION. This form is not to be used for a detailed DDH log.  
② Bit sampling along grid lines use LINE No., CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
③ Rotary or blast drilling, use HOLE NUMBER, BITTA No. for collar co-ords, FROM/TO, INTERVAL, GEOLOGICAL DESCRIPTION OF SAMPLE.  
MAXIMUM SAMPLE / LINE DESCRIPTION CAN BE 31 LINE, 1 PREFERRED

LINE	CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT										
	FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pd	Ru	Rh	Ir	Os				
1	0	1.5m	1.5m	v. Soft peaty clay		311815	x	2.2	4.5	2.2	1.5	2.2	3				
2	1.5	2	0.5m	fine sand w. iron conc./gravel (weathered sst)		311816											
3				quartzite (green), vein qtz, green sst.													
4																	
5																	
6				Bottomed on sst:			x	0.26	1.55	1.86	0.38	1.13	0.8				
7																	
8																	
9				PAN - 12 sample.		311817											
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
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26																	
27																	
28																	
29																	
30																	

860126

MAP, AIR PHOTO OR DRAWING No

LOGGED BY: D CHOM

SAMPLE TYPE: AUGER

2.5m hole in clay for the 1st

MACHINE:

INCLINATION AT COLLAR: vert

BEARING AT COLLAR:

MAG / GRID:

DATE: 13/87

CHECK SAMPLE

LAB. NOTES:

CHEMIST:

DATE: / /

PROSPECT OR PROJECT: ADAMSFIELD

AREA OR GRID NAME: 55

LINE No: 5

LOCATION ON LINE OR HOLE NUMBER: 55

LOG PAGE 1 OF 1

LOG & ANALYTICAL REPORT Sheet No. of A/O



FIELD ENTRY

110

# METALS EXPLORATION LIMITED

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XAMPLES  
① Diamond drilling, use HOLE NUMBER, FROM/TO, INTERVAL, ABBREV. GEOL. DESCRIPTION. This form is used to be used for diamond drilling.  
② Soil sampling along grid lines, use LINE No., CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
③ Soil sampling from surface, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
④ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑤ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑥ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑦ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑧ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑨ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑩ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑪ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑫ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑬ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑭ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑮ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑯ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑰ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑱ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑲ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
⑳ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉑ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉒ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉓ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉔ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉕ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉖ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉗ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉘ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉙ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉚ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉛ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉜ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉝ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉞ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㉟ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊱ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊲ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊳ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊴ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊵ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊶ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊷ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊸ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊹ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊺ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊻ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊼ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊽ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊾ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
㊿ Soil sampling from depth, use SURFACE CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
MAXIMUM SAMPLE/LINE DESCRIPTION CAN BE ENTERED HERE

THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED

LINE	CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECT. LIMIT						
	FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pd	Ru	Rh	Ir	Cs
1	0	1.4m	14m	peat / sands / gravel.	Ag	311820	X	X	2.2	3.8	✓	0.7	X
2				n.s. stepped (14m) on large gravels.									
3													
4													
5													
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860127

CHECK SAMPLE

LAB. NOTES

CHEMIST

DATE

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY: D. CHRY MACHINE

SAMPLE TYPE: AUGER

INCLINATION AT COLLAR: vert. BEARING AT COLLAR

MAG/GRID DATE: 3/87

FIELD ENTRY BY:

PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME

LINE No: R LOCATION ON LINE OR HOLE NUMBER: A2 100mW LOG PAGE 1 OF 1

**LOG & ANALYTICAL REPORT Sheet No. of A/O**



FIELD EN

FIELD

# METALS EXPLORATION LIMITED

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AMPLES :  
① Diamond drilling, use HOLE NUMBER, FROM/TO, INTERVAL, ABBREV. GEOL. DESCRIPTION. This form is not to be used for a detailed DDH log.  
② Soil sampling along grid lines, use LINE No., CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
③ Rotary or blast drilling, use HOLE NUMBER, diam box for collar, co-ords, FROM/TO, INTERVAL (with depth), DESCRIPTION OF SAMPLE, etc.

THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED.

LINE	CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT												
	FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pb	Cu	Zn	Ir	Os						
1	0	1.0m	1.3m	COARSE gravelly sand (peaty)															
2		1.2	0.2m	fine sand.	Δ	518227													
4				At 1.2m hard gravel			x	0.82	0.87	4.02	0.70	1.35	1.41						
6				PEN - 3 cores of Os.		823													

860128

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: G. CHOI

SAMPLE TYPE: AUGER

PROSPECT OR PROJECT: ADAMSFIELD

AREA OR GRID NAME: \_\_\_\_\_

LOCATION ON LINE OR HOLE NUMBER: 41 100m N

MACHINE: \_\_\_\_\_

FIELD ENTRY BY: \_\_\_\_\_

INCLINATION AT COLLAR: \_\_\_\_\_

BEARING AT COLLAR: \_\_\_\_\_

MAG./GRID: \_\_\_\_\_

DATE: 22/8/87

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: \_\_\_\_\_

LOG & ANALYTICAL REPORT Sheet No. 4 of 1 A/O



FIELD ENT

# METALS EXPLORATION LIMITED

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LINE	CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT											
	FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pd	Ru	Rh	Ir	Os					
1	0	1.5m	1.5m	Peaty Brown clay														
2				Fine Orange sand														
3				White - grey sand - fine gravel														
4				Coarse sand														
5				Fine sand		311824?	X	335	052	24	049	044	1.1					
6																		
7				PAN 10 cubes of fine OS.		311825												
8				10% chromite														
9																		
10	1.5	1.9m	0.4m	coarse sand + gravel		311826	X	19.5	1.5	4.5	30	2.2	3					
11				U.S on gravel at 1.9m.														
12																		
13																		
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860129

THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED.

(1) Diamond drilling, use HOLE NUMBER, FROM/TO, INTERVAL, ABBREV. GEOL. DESCRIPTION. This form is not to be used for a diamond core log.

(2) Soil sampling along grid lines, use LINE NO., CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.

(3) Rotary air blast drilling, use HOLE NUMBER, Blank box for rotary air-blast PENN/TO, INTERVAL, and GRADE, DESCRIPTION OF SAMPLE.

MAXIMUM SAMPLE WEIGHT  
DESCRIPTION CAN BE  
NOTED IN FOOTNOTES

CHECK SAMPLE

LAB NOTES:

CHEMIST: \_\_\_\_\_

DATE: / /

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. CHOI

MACHINE: \_\_\_\_\_

INCLINATION AT COLLAR: Vert

BEARING AT COLLAR: \_\_\_\_\_

MAG/GRID: \_\_\_\_\_

FILED ENTRY BY: \_\_\_\_\_

DATE: 26/5/87

LAB NOTES: \_\_\_\_\_

PROSPECT OR PROJECT: Adamsfield

AREA OR GRID NAME: \_\_\_\_\_

LINE No: 14

LOCATION ON NE OR HALF NUMBER: 42 300m N

LOG PAGE: 1 of 1

SAMPLES

# METALS EXPLORATION LIMITED

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FIELD EN  
113

THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED.  
① Diamond drilling, use HOLE NUMBER, FROM/TO, INTERVAL, ABBREV. GEOL. DESCRIPTION. This form is not to be used for a detailed DDH log.  
② Split sampling along gradations, use LINE No., CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
③ Rotary or blast drilling, use HOLE NUMBER, Blank box for collar co-ords. FROM/TO, INTERVAL, GEO. ORICAL DESCRIPTION OF SAMPLE.

LINE	CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT											
	FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pt	Pd	Ru	Rh	Ir	Os					
1	0	1m	1m	peaky clay														
2		1.3m	0.3m	grey clay	white clay													
3		1.5m	0.2m	hard cobbles	clay	311827	X	07	22	30	X	07	X					
4																		
5																		
6				C.B. at 1.5m on cobbles.														
7																		
8																		
9																		
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860130

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY: D. HOY

SAMPLE TYPE: AUGER

MACHINE:

INCLINATION AT COLLAR

BEARING AT COLLAR

MAG/GRID

FIELD ENTRY BY:

DATE: 4.5.87

CHECK SAMPLE

LAB NOTES:

CHEMIST:

DATE: / /



PROSPECT OR PROJECT: ADAMSFIELD

AREA OR GRID NAME:

LINE No.: 4

LOCATION ON LINE OR HOLE NUMBER

H3 300m N

LOG PAGE 1 OF 1

LOG & ANALYTICAL REPORT Sheet No. of A/O

FIELD EN

11A

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# METALS EXPLORATION LIMITED

THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED.  
 ① Diamond drilling, use HOLE NUMBER, FROM/TO INTERVAL, ABBREV. GEOL. DESCRIPTION. This form is not to be used for a detailed DDH log.  
 ② Soil sampling along grid lines use LINE No. CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
 ③ Rotary or blast drilling, use HOLE NUMBER, diam box for collar co-ords, FROM/TO INTERVAL, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.

LINE	CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT											
	FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Ag	Pb	Pt	Cu	Rh	Ir	Os					
1	0	1.5m	1.5m	Peat														
2				silty sand														
3				Brown, pinky clay		311829	X	1.5	3.0	4.5	X	3.0	3					
4																		
5	15	16	0.1m	sand / gravelly clay		311830	X	1.5	1.5	5.2	0.7	2.2	X					
6																		
7																		
8																		
9																		
10																		
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860131

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY: D'HOY  
SAMPLE TYPE: AUGER

MACHINE

INCLINATION AT COLLAR: vertical BEARING AT COLLAR

MAG./GRID

FIELD ENTRY BY:

DATE: 26/8/87

CHECK SAMPLE

LAB. NOTES:

CHEMIST:

DATE: / /



PROSPECT OR PROJECT: AGRANFIELD  
LINE No: I

AREA OR GRID NAME: IR 200m N

LOG PAGE 1 OF 1

LOG & ANALYTICAL REPORT Sheet No. of A/O

METALS EXPLORATION LIMITED

XAMPLES

THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED  
① Diamond drilling, use HOLE NUMBER, FROM/TO INTERVAL, ABBREVIATED GEOLOGICAL DESCRIPTION. This form is not to be used for a detailed DDH log  
② Soil sampling along grid lines, use LINE No. CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc.  
③ Rotary or blast drilling, use HOLE NUMBER, HOLE DIA. (or collar cr. dia.), FROM/TO INTERVAL, GEOLOGICAL DESCRIPTION OF SAMPLE.

LINE	CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X = BELOW DETECTION LIMIT												
	FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Au	Pt	Pb	Cu	Rh	ir	Os						
1	0	1.2m	1.2m	Fine sandy gravel.															
2				Peaky clay + fine sand															
3				v. stiff grey clay															
4				Fine sandy clay															
5																			
6				At 1.2m hard nodules		3118317													
7																			
8				FIN - presence of chromite		3118321													
9																			
10																			
11																			
12																			
13																			
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860132

MAP, AIR PHOTO OR DRAWING No. *anyone or work channel. 200 m. See for a bit.*

LOGGED BY *D. CHOI* MACHINE *Vert* INCLINATION AT COLLAR *Vert* BEARING AT COLLAR *Vert* MAG/GRID *DATE 1/18/87*

SAMPLE TYPE *ALGER* FIELD ENTRY BY *DATE 1/18/87*

CHECK SAMPLE

LAB NOTES

CHFMIST

DATE /

PROSPECT OR PROJECT *ADAMSFIELD* AREA OR GRID NAME

LINE No *I* LOCATION ON LINE OR HOLE NUMBER *I 100m N* LOG PAGE *1* OF *1*



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EXAMPLES

THIS IS A MULTI-PURPOSE FORM. SOME COLUMN HEADINGS & BOXES WILL NOT BE REQUIRED FOR YOUR WORK. COLUMNS CAN BE ADDED. 1 Diamond drilling, use HOLE NUMBER, FROM/TO, INTERVAL, ABBREVIATED GEOLOGICAL DESCRIPTION. This form is used to be used for a detailed ODH log. 2 Soil sampling along grid lines, use LINE No., CO-ORDINATE, DEPTH, GEOLOGICAL DESCRIPTION OF SAMPLE, etc. 3 Rotary or blast drilling, use HOLE NUMBER, blank box for color co-ords, FROM/TO, INTERVAL, GEOLOGICAL DESCRIPTION OF SAMPLE.

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT											
FROM	TO		ABBREVI. GEOL. DESCRIPTION	ASSAY SUMMARY		As	Pt	Pb	Cu	Zn	Ir	Ag					
0	1.5m	1.5m	Peat + peaty clay														
			Dark brown sandy clay														
			Dark clayey sand.		3118567	x	x	0.21	0.17	x	x	x					
			lighter brown sand	PAN	571												
1.5	3.0m	1.5m	Peaty clay/sand.		587	x	x	0.48	0.2	x	0.18	x					
			PAN - no chromite		591												
3	3.4m	0.4m	Peaty fine sand.		607	x	0.98	2.51	1.07	x	x	x					
			softened on weather (green)		611												
			PAN - chromite														

860133

MAXIMUM SAMPLE/LINE DESCRIPTION CAN BE 5 LINES, PREFERRED.

MAP-AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. CHOI MACHINE: 0 INCLINATION AT COLLAR: vert BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_

SAMPLE TYPE: AUGER FIELD ENTRY BY: \_\_\_\_\_ DATE: 4/1/87 CHECK SAMPLE: \_\_\_\_\_ LAB NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: \_\_\_\_\_

PROSPECT OR PROJECT: AGAMSFIELD AREA OR GRID NAME: \_\_\_\_\_

LINE No: \_\_\_\_\_ LOCATION ON LINE OR HOLE NUMBER: JO-1 200m E LOG PAGE: 1 OF 1

**LOG & ANALYTICAL REPORT Sheet No. of A/O**



APPENDIX 2

Original Detection Limits  
 For Pb → 10 < 0.5  
 0.5 < 2 ppm

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FIELD ENTRY  
 LAB ENTRY  
 118

METALS EXPLORATION LIMITED

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pb	Pb	Cu	Zn	Fe	Ag	S.G. kg/l
1	2 m	2m	Orange clayey sand + gravel.		311899	0.6	x	0.6	x	x	x	1.7
2	3 m	1m	Orange clayey mud.									
3	4	1 m	Greyy silt - sandy clay									
4	5	1 m	clayey sand - orange red sh.		312600	0.3	x	x	x	x	x	0.59
5	6	1 m	orange - red soil clayey sand.									
6	7	1 m	Limestone - cavities in limestone									

860135

AP, AIR PHOTO OR DRAWING No. \_\_\_\_\_  
 LOGGED BY: D. CHY  
 MACHINE: fox mobile  
 INCLINATION AT COLLAR: vert.  
 BEARING AT COLLAR: \_\_\_\_\_  
 MAG./GRID: \_\_\_\_\_  
 SAMPLE TYPE: R.C. Perc. chips  
 FIELD ENTRY BY: \_\_\_\_\_  
 DATE: 7/4/87

CHECK SAMPLE: \_\_\_\_\_  
 LAB NOTES: \_\_\_\_\_  
 CHEMIST: \_\_\_\_\_  
 DATE: / /

PROSPECT OR PROJECT: Adamsfield  
 AREA OR GRID NAME: \_\_\_\_\_  
 LINE No.: AT  
 LOCATION ON LINE OR HOLE NUMBER: ATP-1 5m W  
 LOG PAGE: 1 OF 1

FIELD ENTRY  
LAB ENTRY  
119

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT							TUBE No.
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pb	Cu	Zn	As	Ag	S.G. (g/g)	
0	2 m	2m	Orange silty sand	gravelly	311895								
2	3	1	" " silty clay	with limestone		SR	15	4	19	x	0.8	x	0.73
3	4	1	" " "	" "	896								
4	5	1	" " "	" "		SR	06	x	11	x	x	x	1.13
5	6	1	" " "	gravelly									
6	7	1	" " "	reddish									
7	8	1	" " "	" "	97								
8	9	1	" " "	" "									
9	10	1	Orange sandy clay + limestone		98								
10	11	1	Lst basement + clay										
11	12m	1	Lst basement										

860136

AP, AIR PHOTO OR DRAWING No: \_\_\_\_\_

LOGGED BY: D. (1457) MACHINE: \_\_\_\_\_

SAMPLE TYPE: R.C. Perc. FIELD ENTRY BY: OC DATE: 7/14/8

INCLINATION AT COLLAR: vert. BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: Adamsfield track

LINE No: AT LOCATION ON LINE OR HOLE NUMBER: ATP2 100mW LOG PAGE: 1 OF 1

CHECK SAMPLE: \_\_\_\_\_ LAB NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: 1/1

LOG & ANALYTICAL REPORT Sheet No. \_\_\_\_\_ of A/O \_\_\_\_\_

FIELD ENTRY  
120  
LAB ENTRY

METALS EXPLORATION LIMITED

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT								
FROM	TO		ABBREV GEOL DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Sr	S.G.		
0	2	2m	Ranky gravel	white peat green clay	311892									
2	3	1m	clayey coarse sand with granules + concretions			23	0.5	2.3	x	1.4	x	0.92		
3	4	1m	Ranky pebbly gravel		93									
4	5	1m	Archaic ranky sand											
5	8	3m	Archaic clayey sand pebbles of white gravel with concretions in interstitial space		x	x	0.1	x	0.1	x	0.06			
8	10	2m	clayey gravelly sand with grey pebbles											
10	11	1m	clayey sand		94	0.2	x	0.2	x	x	x	0.39		
11	12	1m	concretions											

860139

AP, AIR PHOTO DRAWING No. **D. 0404** MACHINE: **Fox MOBILE** INCLINATION AT COLLAR: **vert** BEARING AT COLLAR:  MAG/GRID:

SAMPLE TYPE: **R.C. P.C.** FIELD ENTRY BY: **D.C.** DATE: **7/4/87** CHECK SAMPLE:  LAB NOTES:  CHEMIST:

PROSPECT OR PROJECT: **ADAMSFIELD** AREA OR GRID NAME: **Adamsfield Track** DATE: **/ /**

121  
FIELD ENTRY  
LAB ENTRY

METALS EXPLORATION LIMITED

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os	S.G.
0	2m	2m	Belling on Road - carbonaceous clay white white clay - with us get + Black clay	SS.	311889	05	X	15	X	1.0	X	0.98
2	3m	1m	Dark brown - white sandy clay									
3	4m	1m	Reddish - white clay with chlorite (sandy)									
4	5m	1m	Reddish - sandy clay with Chromite + Os.		311890	08	04	2.0	X	12	X	0.79
5	6m	1m	Sandy gravel & ironstone grt.									
6	7m	1m	Sandy gravel - sandy l.s.									
7	8m	1m	SS with chromite + ironstone base ment at 7m		311891	07	X	2.9	X	2.9	X	1.45

860138

AP. AIR PHOTO DRAWING NO. **D 0154**

LOGGED BY: **D.C.**

MACHINE: **FOX MOBILE**

INCLINATION AT COLLAR: **vert.**

BEARING AT COLLAR:

MAG / GRID:

SAMPLE TYPE: **R.C. Perc.**

FIELD ENTRY BY: **D.C.**

DATE: **7/4/87**

LAB. NOTES:

CHEMIST:

PROSPECT OR PROJECT: **ADAMSFIELD**

AREA OR GRID NAME: **Adamsfield TRACK**

LOCATION ON LINE OR W.P. NUMBER: **ATP 4 300m W/**

LOG PAGE: **1** OF **1**

CHECK SAMPLE:

DATE: / /

122  
FIELD ENTRY  
LAB ENTRY

METALS EXPLORATION LIMITED

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT												
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os	S.G. (ppm)						
0	2	2m	orange stiff mottled clay with sand lenses + fine carbonate															
2	3	1m	laminated grey mottled stiff clay	orange sandy clay	311886	0.5	0.9	0.9	x	0.9	x	0.93						
3	4m	1m	orange-grey clay															
4	5	1m			311887	0.9	0.5	0.9	x	0.9	x	0.92						
5	6	1m	orange grey sandy clay															
6	7	1m	lst chips / sst chips		311888	0.5	x	0.5	x	x	x	1.08						
7	8	1m	lst + sst chips															
			Basement at 7.5m															

80139

AP, AIR PHOTO OR DRAWING No: \_\_\_\_\_  
 LOGGED BY: D. CLOY MACHINE: FOX-MOBILE ONLY INCLINATION AT COLLAR: VERT. BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_  
 SAMPLE TYPE: R.C. Rev. FIELD ENTRY BY: D.C. DATE: 7/4/87 CHECK SAMPLE: \_\_\_\_\_ LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_  
 PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: ADAMSFIELD TRACK DATE: / /  
 LINE No: AT LOCATION ON LINE OR HOLE NUMBER: 400m W ATPS LOG PAGE: 1 OF 1

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FIELD ENTRY  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT											
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Sr	SO.					
0	2m	2m	Orange Shiff clay with fine laminae with carbonaceous laminae/lenses in m bedding														
2	3m	1m	Orange Shiff clay with white lenses + periodic streaks. Spikes of Fe Oxide orange clay with brown laminae. CAROLITE ≠ OS	52	311882	13	19	19	X	19	X	125					
3	4	1m	Orange Shiff clay														
	5	1m	Orange clay with some coarse sand. Coarse chromite, OS + 1 fine Au	53	311883	0.8	0.2	4.0	X	137	16	0.81					
5	6m	1m	Orange sandy clay with orange mudst. pebbles (v. weathered)														
6	7m	1m	Sand - clayey - orange		311884	0.5	0.5	0.5	X	0.3	X	0.53					
	8	1m	" " "														
8	9		sandy gravel - sst / mudst. pebbles														
9	10	1m	sandy gravel - OS.														
10	11	1m	gravel with sst, FeO + Lst chips. Lst beneath at 10m		311885	0.4	0.0	0.4	X	0.4	X	0.86					

860140

LOG - edge of track.

LOGGED BY: D. CHRY  
MACHINE: FOX-MOBILE  
INCLINATION AT COLLAR: Vert.  
BEARING AT COLLAR:  
MAG./GRID:  
SAMPLE TYPE: R.C. Perc.  
FIELD ENTRY BY: D.C.  
DATE: 7/4/87  
LAB NOTES:  
CHEMIST:  
DATE: / /

PROSPECT OR PROJECT: ADAMSFIELD  
AREA OR GRID NAME: ADAMSFIELD TRACK  
LINE No: AT  
LOCATION ON LINE (MILE NUMBER): ATP6 5034N  
LOG PAGE 1 OF 1

LOG & ANALYTICAL REPORT Sheet No. of A/O

FIELD ENTRY  
LAB. ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pb	Cu	Zn	Li	CS	S.G. (ppm)		
1	2m	2m	fract, greenish white clay with chromite?											
2	3m	1m	greenish clay	752	311879	x	x	0.5	x	1.1	x	1.05		
3	4m	1m	" "											
4	5	1m	orange clay		311880	x	x	x	x	x	x	0.69		
5	6	1m	clay											
6	8		clay + country		311881	x	x	x	x	x	x	x		
8	9	1m	lst + country											
9	10		country											
10	11		"											

860141

MAP, AIR PHOTO OR DRAWING No: \_\_\_\_\_  
 LOGGED BY: D. CHOI MACHINE: F-M. DRILL INCLINATION AT COLLAR: VERT. BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_  
 SAMPLE TYPE: R.C. Perc FIELD ENTRY BY: \_\_\_\_\_ DATE: 6/4/81 LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /

PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: ADAMS TRACK  
 LINE No: AT LOCATION ON LINE: SP 7 LOG PAGE 1 OF 1

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FIELD ENTRY  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED: X=BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Co	Ni	S.G.		
0	1.9m	1.9m	loamy gravel	test granitic white clay + sh. Lst Cat 1.9m	311878	X	X	X	X	2.2	4	108		
2	2.8		Lst. v. hard											

860142

AP. AIR PHOTO OR DRAWING No. D. CH37

LOGGED BY: D. CH37 MACHINE: F.M. Drill INCLINATION AT COLLAR: 4 1/2" I.D. casing BEARING AT COLLAR: vert MAG./GRID:

SAMPLE TYPE: R.C. Perc FIELD ENTRY BY: D.C. DATE: 14/87 CHECK SAMPLE:  LAB NOTES:  CHEMIST:  DATE: / /

PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: ADAMS TRIC.

LINE No: AT LOCATION ON LINE OR NEAREST: ATP2 700m W LOG PAGE 1 OF 1

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FIELD ENTRY  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X-BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Sr	S.G.		
0	2m	2h	brown gravelly sand	(tailings) 73h	311876	X	X	08	X	63	6	157		
2	3m	1m	orange sand	angular gravel 73h										
3	4m	1	orange soil	limestone chips	311877	X	X	36	X	99	X	361		
4	5m	1	LSF	Chromite										

860143

AP, AIR PHOTO OR DRAWING No. \_\_\_\_\_  
 LOGGED BY: **D. CHOU**  
 MACHINE: **FOX-MOBILE**  
 INCLINATION AT COLLAR: **VERT**  
 BEARING AT COLLAR: \_\_\_\_\_  
 MAG./GRID: \_\_\_\_\_  
 SAMPLE TYPE: **R.C. Perc.**  
 FIELD ENTRY BY: **D.C.**  
 DATE: **6/4/8**

CHECK SAMPLE \_\_\_\_\_  
 LAB. NOTES: \_\_\_\_\_  
 CHEMIST: \_\_\_\_\_  
 DATE: / /

PROSPECT OR PROJECT: **ADAMSFIELD**  
 AREA OR GRID NAME: **ADAMS TRIC**  
 LINE No: **AT**  
 LOCATION ON LINE OR HOLE NUMBER: **ATP9 800mW**  
 LOG PAGE: **1** OF **1**

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FIELD ENTRY  
LAB. ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV GCOL DESCRIPTION	ASSAY SUMMARY		Pt	Pci	Ru	Rh	Ir	Os	S.C.
0	2m	2m	Limestone (chip) + some clayey sand	SP	311875	11.7	X	73.9	2.6	5836	715	13
2	3m	1m	HARD limestone	(BAND)								

860144

MAP, AIR PHOTO OR DRAWING NO. \_\_\_\_\_

LOGGED BY: D. CADY MACHINE: F.W. Drill INCLINATION AT COLLAR: Cent BEARING AT COLLAR: \_\_\_\_\_ MAG / GRID: \_\_\_\_\_

SAMPLE TYPE: R.C. Perc. FIELD ENTRY BY: BC DATE: 6/1/76 CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: 1/1



PROSPECT OR PROJECT: ADAMS FIELD AREA OR GRID NAME: ADAMS TRIC

LINE No.: AT LOCATION ON LINE OR HOLE NUMBER: ATP-10 OCCASION: ADAMS LOG PAGE: 1 OF 1

FIELD ENTRY  
128  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE	SAMPLE CODE	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pcl	Ru	Rh	Ir	Os	S.G.
0	2m	2m	sandy gravel - '52 left (tailings)	52	311871	07	x	2.0	x	07	x	136
2	3m	1m	sandy gravel (brown)									
3	4m	1m	brown clayey sand with wood fragments									
4	5m	1m	yellow sandy gravel	52	311872	20	20	13	x	x	x	133
5	6	1m	" " "									
6	7	1	" " "	52	311873	x	x	x	x	x	x	162
7	8	1	gravelly sand (yellow sludge)									
8	10m	1m	gravelly sand with 1st cluff limestone at 10m	172	311874	x	x	15	x	x	x	146

860145

AP AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: O.C. MACHINE: EM-DML INCLINATION AT COLLAR: vert BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_

SAMPLE TYPE: RC FIELD ENTRY BY: O.C. DATE: 6/4/87 CHECK SAMPLE: \_\_\_\_\_ LAB NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /

PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: \_\_\_\_\_

LINE No: AT LOCATION ON LINE OR HOLE NUMBER: ATP-11 1000m W LOG PAGE: 1 of 1

FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X-BELOW DETECTION LIMIT												
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pb	Cu	Zn	Ir	Ag	S.G. (Kt/L)						
0	2m	2m	Sandy gravel															
2	3m	1m	Brn clayey fm sand		311869	1.7	x	9.2	x	1.7	x	1.11						
3	4	1m	Brn clay															
4	5	1m	Limestone at 4.5m depth weathered limestone		311870	x	x	93	x	93	x	961						

860146

AP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: DC MACHINE: MOBILE DRILL INCLINATION AT COLLAR: VERT BEARING AT COLLAR: \_\_\_\_\_ MAG./GRID: \_\_\_\_\_

SAMPLE TYPE: RC FIELD ENTRY BY: D.C. DATE: 6/4/8 CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /

PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: ADAMS TRACK

LINE No: AT LOCATION ON LINE OR HOLE NUMBER: ATP12 1100m W LOG PAGE 1 OF \_\_\_\_\_

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FIELD ENTRY  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION	DESCRIPTION OF SAMPLE	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT												
FROM	TO					Pt	Pel	Ru	Rh	Ir	Os	SG kg/t						
0	2m	2m	sandy gravel		001													
2	3	1m	sandy clay		52	311867	0.5	X	1.6	X	X	X	1.05					
3	4	1m	probly "															
4	5	1m	limestone		32	311868	X	X	X	X	X	X	588					
5	6	1m	hard limestone															

860147

MAP, AIR PHOTO OR DRAWING No: DC

LOGGED BY: DC MACHINE: FOX MORICE INCLINATION AT COLLAR: 0.07 BEARING AT COLLAR:  MAG./GRID:

SAMPLE TYPE: R.C. Perc FIELD ENTRY BY: D.C. DATE: 3/4/87 LAB NOTES:  CHEMIST:  DATE: / /

PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: ATP 13 LOCATION ON LINE OR HOLE NUMBER: ROOM W LOG PAGE: 1 OF 1

LINE No: AT

FIELD ENTRY  
LAB. ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SLAMP [REDACTED]	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
FROM	TO		ABBREV GEOL. DESCRIPTION	ASSAY SUMMARY			Pt	Pt	Ru	Rh	Ir	Os	SC [REDACTED]
0	2m	2m	fractured zone	- 32 kept	SL	511866	x	x	11	x	x	x	1.07
2	3m	1m	LIMESTONE	BASINENT - 62 kept									

860148

MACHINE: MOBILE DRILL INCLINATION AT COLLAR: vert BEARING AT COLLAR: \_\_\_\_\_ MAG/GRID: \_\_\_\_\_  
 LOGGED BY: D.C. FIELD ENTRY BY: DC DATE: 3/14/87  
 SAMPLE TYPE: K.C. Perc LAB NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /

PROSPECT OR PROJECT: ADAMSFIELD AREA OR GRID NAME: \_\_\_\_\_  
 LINE No: AT LOCATION ON LINE OR HOLE NUMBER: AT1014 1300 m W LOG PAGE 1 OF 1

FIELD ENTRY  
132  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLING VOL.	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X-BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY			Pb	PbI	PbII	Rh	Ir	Ce	SG.
0	6m	6m	NO MINERAL	0-5m. white casing Brown yellow sandy gravel	52	311861	X	X	1.5	X	1.9	X	0.65
6	7	1m	LIMESTONE	CLIPS	52	311865	X	X	X	X	X	X	0.65
7	8	1m	"	BASAMENT									

860149

AIR PHOTO DRAWING No. \_\_\_\_\_  
 DRAUGHTSMAN: D. CHAY  
 MACHINE: MOBILE DRILL  
 INCLINATION AT COLLAR: VERT  
 BEARING AT COLLAR: \_\_\_\_\_  
 MAG./GRID: \_\_\_\_\_  
 SAMPLE TYPE: RC PERC  
 FIELD ENTRY BY: D.C.  
 DATE: 3/18  
 CHECK SAMPLE: \_\_\_\_\_  
 LAB NOTES: \_\_\_\_\_  
 CHEMIST: \_\_\_\_\_  
 DATE: / /  
 PROSPECT OR PROJECT: ADAMSFIELD  
 AREA OR GRID NAME: ADAMS TRK.  
 LOCATION ON LINE OR HOLE NUMBER: ATP15 1400mW  
 LOG PAGE 1 OF 1  
 LINE No.: AT

133 FIELD ENTRY LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NO.	RESULTS IN P.P.M UNLESS OTHERWISE STATED. X-BELOW DETECTION LIMIT							T.M.C. No.
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os	S.G.	
0	1 m	1 m	sandy gravel (RV)	with phosphate. (52)	52	x	x	1.0	x	1.5	x	1.02	
1	2 m	1	" " " " "	(22)	52	x	x	1.0	x	1.5	x	1.02	
2	3 m	1	" " " " "	(22)	52	x	x	1.0	x	1.5	x	1.02	
3	4 m	1	moddy (S) G.V	(1 1/2)	52	x	x	1.2	x	0.6	x	1.23	
4	5 m	1	pebbly sand	(22)	52	x	x	1.2	x	0.6	x	1.23	
5	6 m	1	limestone at 5.5m.	(2 kept)									
			clayey, sandy gravel + limestone										

860150

AD. AIR PHOTO DRAWING No. **0-CH54**

LOGGED BY: **Perc** MACHINE: **MOBILE DRILL** INCLINATION AT COLLAR: **VERT.** BEARING AT COLLAR: **VERT.** MAG./GRID: **ATP16**

SAMPLE TYPE: **RC** FIELD ENTRY BY: **AT** DATE: **3/4/87** CHECK SAMPLE: **NO** LAB. NOTES: **NO** CHEMIST: **NO** DATE: **/ /**

PROSPECT OR PROJECT: **ADAMSFIELD** AREA OR GRID NAME: **ATP16** LOCATION ON LINE OR HOLE NUMBER: **150m W** LOG PAGE **1** OF **1**

LINE No.: **AT**

APPENDIX 3

# for Pt - 10 x = < 0.5 gph  
 for Os x = < 2 gph

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FIELD ENTRY  
 LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pb	Zn	Rh	As	Os			
0	2.0		Road fill material. Not sampled.											
2.0	3.0		Fine grained weathered siltstone derived sediment. Possibly derived from upslope. Some pebbles also.		312601	x	0.7	x	x	x				
3.0	4.0		As for 2.0 to 3.0. Casing set to 4 metres. Fragments of serpentinite, chromite and quartz (roller bit).											
4.0	5.0		Pale brown to mid brown siltstones and mudstones. Some pale grey to greenish with chromite and serpentinite fragments. Very clayey.		312602	x	0.5	1.0	x	x				
5.0	6.0		Similar to 4.0 to 5.0. Less chromite and serpentinite.											
6.0	7.0		Light brown siltstones and green brown sandstones with chromite and serpentinite.											
7.0	8.0		As for 6.0 to 7.0.											
8.0	9.0		Similar to 7.0 to 8.0, with less dark sandstone. Trace of chromite.		312603	x	x	0.5	x	x	x			
9.0	10.0		As for 8.0 to 9.0.											
10.0	11.0		As for 9.0 to 10.0, but with trace of serpentinite and chromite.		312604	x	x	x	x	x	x			
11.0	12.0		Similar to 10.0 to 11.0, with less sandstone, trace of serpentinite and chromite.											
12.0	13.0		As for 11.0 to 12.0.											
13.0	14.0		Light brown sandstone and brown siltstones. Some fresh grey siltstones. Trace of serpentinite and chromite.		312605	x	x	x	x	x	x			
14.0	15.0		Fine grained grey sandstone, with light brown siltstones. Minor serpentinite in sandstone, and trace chromite.											
15.0	16.0		As for 14.0 to 15.0.		383089	x	x	2.5	x	x	x			
16.0	17.0		As for 15.0 to 16.0.		90	x	x	4	0.5	x	x			
17.0	18.0		Similar to 16.0 to 17.0, with trace serpentinite and chromite.											
18.0	19.0		As for 17.0 to 18.0.		91	x	x	5.5	0.5	x	x			

860152

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -90 BEARING AT COLLAR: - MAG/GRID: - DATE: 8/4/87  
 SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson

PROSPECT OR PROJECT: Adamsfield EL 4/84 AREA OR GRID NAME: Adamsfield Track  
 LOCATION ON LINE OR HOLE NUMBER: ATP 17 LOG PAGE 1 OF 2

CHECK SAMPLE: \_\_\_\_\_ LAB NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /



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FILE ENTRY  
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LAB ENTRY

CO-ORDINATE FROM TO	DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Fe	Pb	Cu	Zn	Mn	As	
19.0 20.0		Dark grey fine grained sandstone, with serpentinite and chromite. Minor light brown siltstones. Trace chromite.		318607	X	X	DS	X	X	X	
		20.0 metres = End of Hole.									

860153

AP. AIR PHOTO  
9 DRAWING No.

LOGGED BY: **D. Simpson** MACHINE: **Mobile B80** INCLINATION AT COLLAR: **-90°** BEARING AT COLLAR: **-** MAG/GRID

SAMPLE TYPE: **R.A.B./Percussion** FIELD ENTRY BY: **D. Simpson** DATE: **8/4/87** CHECK SAMPLE

PROSPECT OR PROJECT: **Adamsfield EL 4/81** AREA OR GRID NAME: **Adamsfield Track ATP 17** CHEMIST: \_\_\_\_\_ DATE: / /

LINE No: \_\_\_\_\_ LOCATION ON LINE OR HOLE NUMBER: \_\_\_\_\_ LOG PAGE **2** OF **2**

**LOG & ANALYTICAL REPORT Sheet No. of A/O**



FIELD ENTRY  
LAB ENTRY

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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X-BELOW DETECTION LIMIT											
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	PH	RA	RH	IR	OS						
0	2.0		Fill. Sandstone, siltstone and clay.														
2.0	6.0		Casing set to 4.5 metres.														
			Light to mid brown sandstone and siltstone.														
			Trace of chromite.														
6.0	7.0		Light to mid brown weathered sandstone and siltstones.														
			Trace of chromite and steel.														
7.0	8.0		Similar to 6.0 to 7.0, but with rare chromite.		312976	0.5	0.5	1.0	x	1.5	2						
8.0	9.0		Light to mid brown sandstones.														
9.0	10.0		Partly weathered brown to greenish sandstone, with chromite and trace of jasper.		312977	0.5	1.0	0.5	x	0.5	x						
10.0	11.0		As for 9.0 to 10.0.														
11.0	12.0		Partly weathered brown to greenish sandstone.														
12.0	13.0		As for 11.0 to 12.0.														
13.0	14.0		Khaki to brown sandstone, becoming less weathered.		312978	1.0	0.5	1.0	x	0.5	<						
14.0	15.0		Khaki to brown sandstone, some grey sandstone.														
15.0	16.0		Khaki to brown sandstone 70%. Fresh sandstone 30%.		312979	x	x	11	0.5	x	x						
			Trace of chromite.														
16.0	17.0		Khaki to brown sandstone 50% fresh, 50% weathered.		93	x	0.5	6.5	x	x	x						
17.0	18.0		As for 16.0 to 17.0.		94	4.5	x	7.5	0.5	1.5	x						
18.0	18.5		Khaki to brown sandstones 50% fresh, 50% weathered.		95	x	x	6.0	0.5	x	x						
			Trace of chromite.														
			Hole abandoned at 18.5 metres, due to failure of water and air return.														
			Foam used in hole because of caving walls.														
			(ORIGINAL COMPOSITE REPORT WITH 6 SUBSAMPLING ANALYSES)														

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: **D. Simpson** MACHINE: **Mobile B80** INCLINATION AT COLLAR: **-90°** BEARING AT COLLAR: **-** MAG/GRID: \_\_\_\_\_

SAMPLE TYPE: **R.A.B./Percussion** FIELD ENTRY BY: **D. Simpson** DATE: **5 A/87**

PROJECT OR GRID NAME: **Adamsfield EL 4/81** LOCATION ON LINE OR HOLE NUMBER: **ATP 18**

LOG PAGE **1** OF **1**

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /



860154

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FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT												
FROM	TO				Pt	Pd	Cu	Rh	Ir	Os							
0	3.0		Hammer to 1.5 metres, then roller bit to 3 metres. Set casing. Not sampled.														
3.0	4.0		Fine grained weathered sandstone 70%. 30% fresh sandstone. Trace coarse chromite.	312691	>	0.5	0.5	x	x	x							
4.0	5.0		Fine grained fresh sandstone 75%. 25% weathered sandstone. Trace chromite.														
5.0	6.0		Fine grained grey fresh sandstone 90%. 10% weathered sandstone. Trace chromite.														
6.0	7.0		Fine grained grey fresh sandstone 100%.	312692	x	1.0	1.0	x	x	x							
7.0	8.0		Fine grained grey fresh sandstone 80%, with 20% weathered caved material. Trace chromite. Cavity from 7.7 to 8.0 metres.														
8.0	9.0		Fine grained grey fresh sandstone 50%. 50% weathered caved material.														
9.0	10.0		Fine grained grey fresh sandstone 20% and 80% cave material.	223096	x	x	9.5	10	x	x							
10.0	11.0		Fine grained grey fresh sandstone 60% and 40% cave material. Trace of chromite.	97	x	x	x	6.5	20	x							
11.0	12.0		Fine grained grey fresh sandstone 50% and 50% weathered cave material. Minor carbonate present.	98	x	4.5	4.5	10	x	x							
12.0	13.0		Similar to 11.0 to 12.0. Trace of dark grey mudstone. Trace of chromite.	312694	x	1.0	1.0	6.0	x	1.5							
13.0	14.0		Fine grained grey sandstone and buff yellow siltstones, possibly some cave material.														
14.0	15.0		Fine grained grey sandstone 70% and buff yellow siltstones 30%. Possibly some cave material. Rare chromite.														
15.0	16.0		Fine grained grey sandstone 80%. Yellow brown siltstones and sandstones 20%. Rare chromite.	312695	x	1.0	0.5	x	x	x							
16.0	17.0		Fine grained grey sandstone 60%. Yellow brown siltstone and sandstone 40%. Very rare chromite.														
17.0	18.0		Fine grained grey sandstone 70%. Yellow brown siltstone and sandstone 30%. Very rare chromite.														

COPIES

860155

VAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Simpson MACHINE: Mobile B80

SAMPLE TYPE: R.A.B./Percussion

PROSPECT OR PROJECT: Adamsfield EL. 4/8

AREA OR GRID NAME: Adamsfield Track

LOCATION ON LINE OR HOLE NUMBER: ATP 19

INCLINATION AT COLLAR: -90° BEARING AT COLLAR: - MAG. GRID

FIELD ENTRY BY: D. Simpson DATE: 24/98

TOP OF RISE ON FOOTBALL HILL

CHECK SAMPLE \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /

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FIELD ENTRY  
LAB ENTRY  
130  
3 m/c/t

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. (UNLESS OTHERWISE STATED); X = BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pt	Ru	Rh	Ir	Os			
18.0	19.0		Fine grained grey sandstone with calcareous content. 30% weathered. Trace of chromite and very rare pyrite.		312696	x	2.5	0.5	x	x	x			
19.0	20.0		Fine grained grey calcareous sandstone 80%. 20% weathered sandstone. Some possible cave.											
20.0	21.0		Fine grained grey calcareous sandstone 80%. 20% weathered sandstone, with trace of chromite and steel.											
21.0	22.0		Fine grained grey calcareous sandstone 80%. 20% larger weathered sandstone fragments up to 25 mm across.		312697	x	1.5	0.5	x	x	x			
22.0	23.0		Fine grained grey calcareous sandstone 90%. 10% yellow-brown cave.											
23.0	24.0		As for 22.0 to 23.0.											
24.0	25.0		As for 23.0 to 24.0.											
25.0	26.0		As for 24.0 to 25.0.		312698	x	1.5	0.5	x	x	x			
26.0	27.0		As for 25.0 to 26.0.											
27.0	28.0		Dark grey fine grained calcareous sandstone (spalling into flat chips). Trace of chromite.											
28.0	29.0		Dark grey fine grained calcareous sandstone 20% cave material up to 30 mm across.		312699	x	2.0	1.0	x	x	x			
29.0	30.0		As for 28.0 to 29.0, with trace of chromite.											
30.0	31.0		Similar to 29.0 to 30.0. Some thin carbonate veins. (Rare red grains present in sandstone). Trace of chromite.											
31.0	32.0		Similar to 30.0 to 31.0, with .1% thin calcite veins.		312991	x	1.0	1.0	x	x	x			
32.0	33.0		Mid grey fine grained calcareous sandstone 95% with 5% uphole cave.											
33.0	34.0		As for 32.0 to 33.0, with rare chromite.											
34.0	35.0		As for 33.0 to 34.0. Rare dark green clean chips.		312992	x	1.0	0.5	x	x	x			
35.0	36.0		Mid grey fine grained calcareous sandstone 100%. Possible very fine chromite in sandstone.											

860156

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -90° BEARING AT COLLAR: - MAG GRID: 238

SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 24/9/87

PROSPECT OR PROJECT: Adamsfield EL 4/8 AREA OR GRID NAME: Adamsfield Track

LOCATION ON LINE OR HOLE NUMBER: ATP 19 LOG PAGE: 2 of 3

LINE No.: \_\_\_\_\_ Top of rise on Football Hill

CHECK SAMPLE

LAB NOTES:

CHEMIST: \_\_\_\_\_ DATE: / /

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FIELD ENTRY  
LAB ENTRY  
140  
1-FOUR 5

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT									
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Re	Rh	Ir	Os				
36.0	37.0		Mid grey fine grained calcareous sandstone 100%. Trace of fine grained pyrite in concentrate.		32993	x	2.0	0.5	x	x	x				
			Hole stopped at 37 metres due to rig failure.												

860157

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Simpson

MACHINE: Mobile B80

SAMPLE TYPE: R.A.B./Percussion

FIELD ENTRY BY: D. Simpson

INCLINATION AT COLLAR: -900

BEARING AT COLLAR: \_\_\_\_\_

MAG/GRID: 238

DATE: 24/9/87

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: / /

PROSPECT OR PROJECT: Adamsfield EL 4/8

AREA OR GRID NAME: Adamsfield Track

LOCATION ON LINE OR HOLE NUMBER: ATP 19

LINE No: \_\_\_\_\_

Top of rise on Football Hill

Page 1 of 3



APPENDIX 4

SAMPLE LOCATION DETAILS ARE HIGHLY CONFIDENTIAL - THIS FORM ONLY FOR SAMPLES 8013 01 71 0 11 0

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FIELD ENTRY  
LAB ENTRY  
142

CO-ORDINATE M TO	DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE ABBREV. GEOL. DESCRIPTION ASSAY SUMMARY	SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT						
				Pt	Pd	Ru	Rh	Ir	Os	
0	3.0	Fill. Blade bit.								
3.0	4.0	Light green to dark green foliated serpentinite. Trace chromite in concentrate.								
4.0	5.0	Bluey grey to blackish serpentinite, minor chromite in concentrate. Water.	30208	X	X	4.5	5	2	X	
5.0	6.0	Possible fill or workings. Mixed Greenish to black serpentinite. Quartz fragments, abundant chromite. Some steel. No Os observed.								
6.0	7.0	Apple green serpentinite 80%; dark green serpentinite 20%, minor quartz. Minor chromite. Trace of steel.	231209	2.0	2.0	11	0.5	3.0	4	
7.0	9.0	Similar to 6.0 to 7.0, but more chromite. Dry sample from about 8.0.	210	34	4.5	46	3.5	1.0	10	
9.0	10.0	As 7.0 to 9.0.	211	14	4.0	11	2.0	2.5	36	
10.0	11.0	Similar to 9.0 to 10.0, but with clay component. Abundant chromite, talc carbonate alteration zone.	212	16	8.0	5.5	1.5	1.5	X	
11.0	12.0	Similar to 10.0 to 11.00. Minor chromite, trace pyrite, abundant talc.	213	13	3.0	8.5	2.0	1.0	2	
12.0	13.0	Similar to 10.0 to 11.0. Minor chromite, abundant talc, trace of jasper.								
13.0	14.0	Talc carbonate alteration zone. Pale green and dark green serpentinite, trace of jasper and chromite.	312611	2.0	1.0	3.0	0.5	2.5	2	
14.0	15.0	As for 13.0 to 14.0.								
15.0	16.0	As for 14.0 to 15.0.								
16.0	17.0	Talc carbonate alteration zone. Trace of jasper and dark green serpentinite.	312612	1.5	0.5	8.5	1.0	1.5	X	
17.0	18.0	As for 16.0 to 17.0.								
18.0	19.0	As for 17.0 to 18.0.	251 214	1.5	4.0	7.0	1.5	5.0	X	
19.0	20.0	Talc carbonate alteration zone, with trace of jasper and green serpentinite, minor chromite.	215	2.0	3.0	12	0.5	2.0	2	
20.0	21.0	Similar to 19.0 to 20.0, but with trace of chromite (Hammer bit).	216	1.5	3.5	9.5	1.0	3.5	4	
21.0	22.0	Talc carbonate alteration zone. Abundant jasper, trace of chromite and green serpentinite.	217	250	7.0	1900	61	14000	13000	

860159

MAP, AIR PHOTO OR DRAWING No.

LOGGED BY: D. Simpson  
SAMPLE TYPE: R.A.B./Percussion

LOCATION AT COLLAR: 401-8m  
MACHINE: Mobile B80  
INCLINATION AT COLLAR: -85°  
BEARING AT COLLAR: 062  
MAG. BRID: 062  
FIELD ENTRY BY: D. Simpson  
DATE: 8/4/8



PROSPECT OR PROJECT: Adamsfield  
AREA OR GRID NAME: Hall's Open Cut  
LOCATION ON LINE OR HOLE NUMBER: AHP-01  
LOG PAGE 1 OF 3

CHECK SAMPLE  
LAB NOTES  
CHEMIST  
DATE: / /

LOG & ANALYTICAL REPORT Sheet No. of A/O

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FIELD ENTRY  
LAB ENTRY  
143

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT											
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os						
22.0	23.0		Similar to 21.0 to 22.0, but with some dark green serpentinite. Trace of steel, rare Os.		231218	20	65	15	30	70	130						
23.0	24.0		Green, partly altered serpentinite. Minor chromite and jasper.		219	13	15	24	15	75	110						
24.0	25.0		Green, unaltered serpentinite. Trace chromite and steel.														
25.0	26.0		As for 24.0 to 25.0,		312615	34	30	200	80	1400	1600						
26.0	27.0		Dark green and light green unaltered serpentinite. Minor chromite.														
27.0	28.0		As for 26.0 to 27.0.		231223	18	70	95	20	35	4						
28.0	29.0		Dark green and light green altered serpentinite. Minor chromite.		224	14	65	36	25	25	2						
29.0	30.0		As for 28.0 to 29.0.		225	13	16	60	25	10	2						
30.0	31.0		As for 29.0 to 30.0.		226	30	35	60	25	15	2						
31.0	32.0		As for 30.0 to 31.0.		227	11	80	75	45	10	X						
32.0	33.0		Light to dark green unaltered serpentinite. Minor chromite.		228	26	10	12	15	15	X						
33.0	34.0		As for 32.0 to 33.0.		229	11	95	45	10	05	2						
34.0	35.0		As for 33.0 to 34.0 plus trace of carbonate.		230	85	11	X	25	30	X						
35.0	36.0		As for 34.0 to 35.0.		231	17	12	65	20	11	16						
36.0	37.0		Partly talc altered green serpentinite, trace of carbonate, minor chromite.		232	40	90	12	10	25	X						
37.0	38.0		Dark green and light green serpentinite, trace of talc, minor chromite.		233	50	90	X	20	15	6						
38.0	39.0		As for 37.0 to 38.0.		234	20	25	15	10	35	4						
39.0	40.0		Light green serpentinite, with trace of carbonate and minor chromite.		312620	45	05	50	05	20	2						
40.0	41.0		As for 39.0 to 40.0.														
41.0	42.0		Light green serpentinite, with minor asbestos.														
42.0	43.0		Light green serpentinite, with abundant asbestos. Trace of chromite.														
43.0	44.0		As for 42.0 to 43.0.		312621	X	X	85	X	65	8						
44.0	45.0		As for 43.0 to 44.0.														
45.0	46.0		As for 44.0 to 45.0.		235	10	20	26	X	24	40						

860100

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: **D. Simpson** MACHINE: **Mobile B80** INCLINATION AT COLLAR: **-850** BEARING AT COLLAR: **062** MAG. GRID: \_\_\_\_\_

SAMPLE TYPE: **R.A.B./Percussion** FIELD ENTRY BY: **D. Simpson** DATE: **8/4/87**

PROSPECT OR PROJECT: **Adamsfield** AREA OR GRID NAME: **Hall's Open Cut**

LOCATION ON LINE OR HOLE NUMBER: **AHP-01** LOG PAGE **2** OF **3**

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /

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FIELD ENTRY  
LAB ENTRY  
144

COORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT					
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os
46.0	47.0		As for 45.0 to 46.0.		236	2.0	17	3.5	0.5	3.9	26
47.0	48.0		As for 46.0 to 47.0.		237	1.0	11	5.0	2.5	2.0	26
48.0	49.0		Light green to dark green altered serpentinite. Trace of asbestos and rare chromite.		238	7.5	11	2.6	1.0	1.4	1.4
49.0	50.0		As for 48.0 to 49.0, with minor asbestos.		239	1.5	10	2.4	0.5	2.0	1.3
			50 metres = End of hole.								

860161

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Simpson

SAMPLE TYPE: R.A.B./Percussion

MACHINE: Mobile B80

INCLINATION AT COLLAR: -85°

BEARING AT COLLAR: 062

MAG. GRID: \_\_\_\_\_

FIELD ENTRY BY: D. Simpson

DATE: 8/4/87

PROSPECT OR PROJECT: Adamsfield

AREA OR GRID NAME: Hall's Open Cut

LOCATION ON LINE OR HOLE NUMBER: AHP-01 87-01

LOG PAGE 3 OF 3

CHECK SAMPLE

LAB. NOTES:

CHEMIST

DATE: / /



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FIELD ENTRY  
LAB ENTRY  
145

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X=BELOW DETECTION								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os			
0	3.0		Not sampled. Pre-collar. Fill.											
3.0	5.0		Possible bedrock. Talc carbonate altered serpentinite with abundant chromite. Rare Os (driller confirms bedrock at 4.5 metres).											
5.0	6.0		Talc carbonate altered serpentinite with some dark green serpentinite. Minor chromite, no visible Os. Convert to hammer.		312624	3.5	1.0	75	1.0	40	4			
6.0	7.0		Dark green serpentinite, partly altered, with 50% red brown jasper. Minor carbonate/talc. Minor chromite.											
7.0	8.0		Talc carbonate altered serpentinite 50%. Dark serpentinite 30%, jasper 20%. Minor chromite.		625	1.5	1.5	55	0.5	2.5	X			
8.0	9.0		Talc carbonate altered serpentinite 50%. Jasper 50%. Minor chromite.											
9.0	10.0		Jasper 60%. Talc carbonate 40%. Minor chromite.											
10.0	11.0		Jasper 65%. Talc carbonate 35%. Minor chromite.		626	X	1.0	75	0.5	1.5	X			
11.0	12.0		Talc carbonate altered serpentinite 70%. Jasper 30%. Trace chromite.											
12.0	13.0		Jasper 75%. Talc carbonate serpentinite 25%. Minor chromite.											
13.0	14.0		As for 12.0 to 13.0.		627	90	1.0	70	1.0	2.0	X			
14.0	15.0		Jasper 30%. Talc carbonate 30%. Light green serpentinite 40%.											
15.0	16.0		As for 14.0 to 15.0.											
16.0	17.0		As for 15.0 to 16.0.		628	X	1.0	7.0	X	2.0	X			
17.0	18.0		Grey siliceous serpentinite with 10% jasper. Some talc carbonate.											
18.0	19.0		Pale green serpentinite 50%. 20% altered talc rock. 10% jasper. Trace chromite. 20% grey siliceous rock.											
19.0	20.0		60% grey siliceous rock. 30% jasper. Minor carbonate/talc.		629	2.0	1.0	8.0	0.5	2.0	X			
20.0	21.0		60% grey siliceous serpentinite. 40% jasper. Minor chromite and steel.											

Elevation of collar: 403.7m

LOGGED BY: D. Simpson  
 MACHINE: Mobile B80  
 INCLINATION AT COLLAR: -84°  
 BEARING AT COLLAR: 060  
 MAG/GRID: 060  
 FIELD ENTRY BY: D. Simpson  
 DATE: 9/4/87

CHECK SAMPLE: \_\_\_\_\_  
 LAB. NOTES: \_\_\_\_\_  
 CHEMIST: \_\_\_\_\_  
 DATE: / /

PROSPECT OR PROJECT: Adamsfield  
 AREA OR GRID NAME: Hall's Open Cut  
 LOCATION ON LINE OR HOLE NUMBER: AHP-02 -87-02  
 LOG PAGE: 1 OF 2

LOG & ANALYTICAL REPORT Sheet No. of A/O



860162

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FIELD ENTRY  
LAB ENTRY

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT					
FROM	TO		ABBREV GEOL DESCRIPTION	ASSAY SUMMARY	Pt	Pd	Ru	Rh	Ir	Os
21.0	22.0		Dark grey siliceous serpentinite with chromite. 5% jasper.							
22.0	23.0		Dark bluish black serpentinite (siliceous?) 30%. Remainder talc carbonate altered serpentinite. Trace of chromite.	630	10	25	85	10	10	
23.0	24.0		Dark green silicious serpentinite and talc carbonate, 10% jasper, minor chromite.							
24.0	25.0		Bright green serpentinite with trace of talc carbonate.							
25.0	26.0		Pale green talc carbonate altered serpentinite. Minor chromite.	631	30	15	80	10	40	2
26.0	27.0		Pale green talc carbonate altered serpentinite. Trace jasper. Some chromite.							
27.0	28.0		As for 26.0 to 27.0, with minor chromite.							
29.0	30.0		Pale green talc carbonate altered serpentinite. Trace jasper. Some dark green serpentinite. Trace chromite.	632	20	15	75	10	40	4
			30.0 metres = End of hole.							

860163

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -84° BEARING AT COLLAR: 060 MAG/GRID: \_\_\_\_\_

SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 9/4/87

PROJECT OR AREA OR GRID NAME: Adamsfield Hall's Open Cut

LINE No. \_\_\_\_\_ LOCATION ON LINE OR HOLE NUMBER: AHP-02 (87-02) LOG PAGE 2 OF 2

CHECK SAMPLE \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /



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FIELD ENTRY  
147  
LAB ENTRY

ELEVATION FROM	DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY	SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT						
					Pt	Pd	Ru	Rh	Ir	Os	
0	5.0	Rubble and fill. Not sampled. Casing set to 4.5 metres.									
5.0	6.0	Pale green serpentinite. Some jasper, carbonate present. Minor chromite.									
6.0	7.0	Partly talc carbonate altered serpentinite. No jasper. Minor chromite.		312 633	2.0	1.0	65	0.5	2.0	X	
7.0	8.0	Partly talc carbonate altered serpentinite, 30% jasper. Minor chromite.									
8.0	9.0	Partly talc carbonate altered serpentinite, 35% jasper. Minor chromite.									
9.0	10.0	Partly talc carbonate altered serpentinite, 40% jasper and abundant chromite.		312 634	0.5	1.0	80	0.5	2.0	X	
10.0	11.0	Partly talc carbonate altered serpentinite, 25% jasper, minor chromite.									
11.0	12.0	Talc carbonate altered serpentinite, 20% jasper, minor chromite.									
12.0	13.0	Pale green talc carbonate altered serpentinite with 5% jasper, trace chromite.		312 635	1.0	1.0	7.0	0.5	2.0	X	
13.0	14.0	Pale green talc carbonate altered serpentinite with trace of jasper. Trace of chromite.									
14.0	15.0	Pale green talc carbonate altered serpentinite with 50% jasper. Minor chromite.									
15.0	16.0	Pale green talc carbonate altered serpentinite with 30% jasper. Minor chromite.		312 636	X	1.0	7.0	X	2.0	X	
16.0	17.0	Pale green talc carbonate altered rock. Trace of jasper. Minor chromite.									
17.0	18.0	Mid grey siliceous serpentinite. Rare jasper. Minor chromite.									
18.0	19.0	50% talc carbonate, 50% grey siliceous serpentinite. Trace jasper. Trace chromite.		312 637	0.5	1.0	7.0	0.5	2.0	X	
19.0	20.0	Grey siliceous serpentinite 50%. Red jasper 50%. Minor chromite.									
20.0	21.0	Grey siliceous serpentinite 60%. Red jasper 40%. Minor chromite.		231240	1.5	3.0	4.5	2.0	5.0	4	

LOG NO. *87-03-1001 2m E. 1.5m from base*  
 DRAUGHTSMAN: *D. Simpson*  
 DRAWING NO.:  
 LOGGED BY: *D. Simpson*  
 MACHINE: *Mobile B80*  
 INCLINATION AT COLLAR: *-90°*  
 BEARING AT COLLAR: *-*  
 MAG./GRID:  
 SAMPLE TYPE: *R.A.B./Percussion*  
 FIELD ENTRY BY: *D. Simpson*  
 DATE: *9/4/87*  
 PROSPECT OR PROJECT: *Adamsfield*  
 AREA OR GRID NAME: *Hall's Open Cut*  
 LOCATION ON LINE OR HOLE NUMBER: *AHP-03 (87-03)*  
 LOG PAGE: *1* OF *3*

CHECK SAMPLE:  
 LAB. NOTES:  
 CHEMIST:  
 DATE: / /



860104

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FIELD ENTRY  
LAB ENTRY  
148

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT					
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY	Pt	Pd	Ru	Rh	Ir	Os
21.0	22.0		Grey siliceous serpentinite 70%. Red jasper 30%. Minor chromite.	231241	10	2.0	14	1.5	7.5	8
22.0	23.0		Pale green talc carbonate 60%. Dark grey siliceous serpentinite 40%. Minor chromite.	231242	15	15	27	2.0	41	34
23.0	24.0		Dark green to black siliceous serpentinite 60%. Talc carbonate rock 40%. Minor chromite.	231243	9.5	14	11	2.5	6.0	4
24.0	25.0		Emerald green serpentinite 60%. Talc carbonate 40%. Trace quartz. Trace chromite.	231244	17	5.5	13	2.0	5.0	2
25.0	26.0		Emerald green serpentinite 80%. Talc carbonate 20%. Trace quartz. Trace chromite.	231245	30	5.0	52	2.5	3.5	2
26.0	27.0		Pale green talc carbonate 80%. 20% jasper. Trace chromite.	231246	9.5	14	9.5	2.0	5.5	4
27.0	28.0		Pale green talc carbonate 95%. 5% jasper. Trace chromite.	231247	7.5	3.0	10	1.5	7.5	6
28.0	29.0		As for 27.0 to 28.0.	231248	8.0	6.0	11	1.5	3.5	6
29.0	30.0		Pale green talc carbonate 65%. 35% jasper. Trace chromite.	231249	8.0	9.5	6.5	1.5	3.0	8
30.0	31.0		Pale green talc carbonate 85%. 15% jasper. Trace chromite.	231250	5.5	5.5	28	2.0	1.5	x
31.0	32.0		Emerald green serpentinite with talc carbonate rock 50%.	231251	6.0	4.0	6.5	2.0	3.0	2
32.0	33.0		Emerald green serpentinite with talc carbonate rock 50%.	231252	4.0	2.0	7.0	2.0	3.0	2
33.0	34.0		Emerald green serpentinite with talc carbonate rock 50%.	231253	4.5	1.5	5.0	3.0	3.5	6
34.0	35.0		Emerald green serpentinite and talc carbonate rock. Trace chromite.	231254	3.5	3.5	4.0	2.0	3.5	4
35.0	36.0		Partly talc carbonate altered green serpentinite with occasional dark green serpentinite. Trace fine grained chromite.	231255	1.0	2.0	2.0	2.0	1.5	2
36.0	37.0		As for 35.0 to 36.0.	231256	2.0	1.0	4.0	2.0	3.5	4
37.0	38.0		As for 36.0 to 37.0.	231257	7.0	4.0	10	1.5	3.0	x
38.0	39.0		Apple green serpentinite 95%. 5% dark green with a little talc carbonate rock. Trace of chromite.	231258	20	5.5	6.0	3.5	1.5	x

860163

LOGGED BY: D. Simpson  
 MACHINE: Mobile B80  
 INCLINATION AT COLLAR: -90°  
 BEARING AT COLLAR: -  
 MAG./GRD: -  
 SAMPLE TYPE: R.A.B./Percussion  
 FIELD ENTRY BY: D. Simpson  
 DATE: 9/4/87  
 PROJECT: Adamsfield  
 AREA OR GRID NAME: Hall's Open Cut  
 LOCATION ON LINE OR HOLE NUMBER: AHP-03 (87-03)  
 LOG PAGE: 2 OF 3

CHECK SAMPLE  
 LAB NOTES  
 CHEMIST  
 DATE



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FIELD ENTRY  
LAB ENTRY  
150

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT											
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os						
0	1.0		Not sampled. Fill.														
1.0	2.0		Dark green serpentinite. Fractured. Possible ore zone. Trace chromite.		313579	6.5	5.0	3.0	1.0	2.5	X						
2.0	3.0		Dark green serpentinite. Poor sample return. Run more casing.		231270	8.5	2.0	8.0	0.5	X		6					
3.0	5.0		Mid green serpentinite 80%. Dark green serpentinite 10%. Talc carbonate 10%. Possible fill. Trace of chromite.		231271	7.0	1.6	X	1.0	X		X					
6.0	7.0		Pale green to grey serpentinite and talc carbonate 20%. Minor chromite and steel.		231272	6.5	4.0	7.0	2.0	3.0	2						
7.0	8.0		Talc carbonate 80%. Dark green serpentinite 20%. Minor chromite and steel.		231273	4.0	2.0	7.0	2.0	3.5	2						
7.0	8.0				231274	4.5	1.5	5.0	3.0	3.5	6						
8.0	9.0		Talc carbonate 90%. 10% dark serpentinite. Trace chromite.		231275	3.5	3.5	4.0	2.0	3.0	4						
8.0	9.0				231276	1.0	2.0	2.0	2.0	1.5	2						
9.0	10.0		Talc carbonate 90%. 10% dark serpentinite. Trace Os and chromite.		231277	2.0	1.0	4.0	2.0	3.5	4						
10.0	11.0		Pale green talc carbonate 95%. Trace dark serpentinite. Trace chromite.		231278	7.0	3.5	9.5	1.5	3.0	X						
11.0	12.0		Pale green serpentinite 90%. Trace carbonate. Trace chromite.		231279	2.0	5.5	6.0	3.5	1.5	2						
12.0	13.0		Pale green to grey serpentinite. Trace talc carbonate and chromite.		231280	1.1	4.0	6.5	2.5	1.0	X						
13.0	14.0		Pale grey green serpentinite. Trace talc carbonate. Trace chromite.		231281	5.0	3.0	X	1.0	1.5	X						
14.0	15.0		Pale grey green serpentinite, with minor talc carbonate. Trace chromite.		231282	4.5	1.5	6.5	0.5	3.5	2						
15.0	16.0		As for 14.0 to 15.0.		231283	8.5	5.5	5.5	2.5	1.0	X						
16.0	17.0		Pale green serpentinite with minor talc carbonate. Minor chromite.		231284	1.2	5.5	2.5	1.5	1.5	X						
17.0	18.0		Pale green talc carbonate rock 95%. Trace jasper. 2% chromite.		231285	2.5	2.0	1.5	1.5	5.0	X						
18.0	19.0		Pale green talc carbonate rock 95%. Trace jasper. 3% chromite.		231286	2.5	2.0	3.5	1.0	3.3	1.6						

860107

Collar located 10m from face. Elevation 404.3m

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: 90° BEARING AT COLLAR: - MAG/GRID: -

CHEMIST: D. Simpson

FIELD ENTRY BY: D. Simpson DATE: 13/4/87

PROJECT: Adamsfield AREA OR GRID NAME: Hall's Open Cut

LOCATION ON LINE OR HOLE NUMBER: AHP-04 (87-04) LOG PAGE: 1 of 3

CHECK SAMPLE

LAB NOTES:

CHEMIST:

DATE:

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FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT					
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Ad	Ru	Rh	Ir	Os
19.0	20.0		Pale green talc carbonate rock	95%. Trace jasper. Trace chromite.	231287	11	3.5	3.5	1.0	1.5	X
20.0	21.0		Pale green talc carbonate and buff coloured carbonate.	Trace chromite.	231288	5.0	1.5	3.5	0.5	1.5	X
21.0	22.0		Pale green talc carbonate rock	with trace of jasper and chromite.	231289	1.0	2.0	5.0	1.0	0.5	X
22.0	23.0		As for 21.0 to 22.0.		231290	7.0	10	14	3.0	2.0	2
23.0	24.0		Pale green talc carbonate rock	with 15% jasper and trace chromite.	231291	1.5	1.0	2.0	1.0	X	X
24.0	25.0		Apple green serpentinite	70%. Talc carbonate 30%. Trace chromite.	231292	220	3.0	1400	48	11000	13000
25.0	26.0		Green serpentinite	80%. Talc carbonate 20%. Minor chromite.	231293	24	8.5	14	3.5	32	28
26.0	27.0		Light green serpentinite	60%. Dark green serpentinite 30%. Talc carbonate 10%. Trace of chromite.	231294	11	3.5	6.0	3.0	12	18
27.0	28.0		Pale green serpentinite	75%. Dark green serpentinite 25%. Minor chromite.	231295	63	180	9.5	5.0	3.5	6
28.0	29.0		As for 27.0 to 28.0.		231296	16	8.5	9.0	3.5	5.5	6
29.0	30.0		As for 28.0 to 29.0.		313578	12	4.5	8.0	2.5	1.5	2
30.0	31.0		Pale green serpentinite	75%. Dark green serpentinite 25%. Trace chromite.	231297	20	38	15	3.5	3.0	6
31.0	32.0		Apple green serpentinite	60%. Talc carbonate 30%. Dark green serpentinite 10%. Trace chromite.	231298	6.5	1.0	8.5	2.0	2.0	2
32.0	33.0		Talc carbonate rock	70%. Green serpentinite 30%. Trace chromite.	231299	3.0	4.0	3.5	1.0	1.0	4
33.0	34.0		Talc carbonate rock	80%. Green serpentinite 20%. Trace chromite.	313561	2.0	2.0	14	4.5	3.0	2
34.0	35.0		Talc carbonate rock	80%. Green serpentinite 20%. Trace jasper and trace chromite.	313562	14	6.0	31	6.5	2.0	4
35.0	36.0		Mid green serpentinite	80%. Talc carbonate rock 20%. Minor chromite and trace of jasper.	313563	12	X	13	3.5	3.5	4
36.0	37.0		Mid green serpentinite	70%. Dark green serpentinite 20%. Talc carbonate rock 10%. Minor chromite.	313564	26	8.5	5.5	3.5	2.5	4

860168

VAP. AIR PHOTO OR DRAWING NO. \_\_\_\_\_

LOGGED BY: **D. Simpson** MACHINE: **Mobile B80** INCLINATION AT COLLAR: **90°** BEARING AT COLLAR: **-** MAG. GRID: **-**

SAMPLE TYPE: **R.A.B./Percussion** FIELD ENTRY BY: **D. Simpson** DATE: **13/4/87**

PROSPECT OR PROJECT: **Adamsfield** AREA OR GRID NAME: **Hall's Open Cut**

LINE No: \_\_\_\_\_ LOCATION ON LINE OR HOLE NUMBER: **AHP-04 (87-04)** LOG PAGE 2 OF 3

CHECK SAMPLE \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: **1 / 1**

LOG & ANALYTICAL REPORT Sheet No. of A/O



FIELD ENTRY  
LAB ENTRY  
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CO ORDINATE FROM TO	DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE ABBREV. GEOL. DESCRIPTION ASSAY SUMMARY	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT					
				Pt	Pd	Ru	Rh	Ir	Os
37.0 38.0		As for 36.0 to 37.0.	313565	15	1.0	4.0	3.0	2.5	X
38.0 39.0		As for 37.0 to 38.0, but with minor coarse chromite.	313566	11	4.0	4.0	3.5	1.0	X
39.0 40.0		Pale green serpentinite 80%, dark green serpentinite 20%. Trace chromite.	313567	17	1.0	1.3	3.5	1.5	2
40.0 41.0		As for 39.0 to 40.0.	313568	12	1.3	1.8	1.5	2.0	2
41.0 42.0		As for 40.0 to 41.0.	313569	25	8.5	11	3.5	2.5	2
42.0 43.0		Talc carbonate 70%. Pale green serpentinite 20%. Jasper 10%. Trace chromite.	313570	20	6.5	14	2.5	4.8	24
43.0 44.0		Talc carbonate 80%. Pale green serpentinite trace and jasper 20%.	313571	8.0	1.5	5.0	3.0	2.0	2
44.0 45.0		Talc carbonate 80%. Jasper 10%. Pale serpentinite 10%. Trace chromite.	313572	3.5	2.0	6.0	3.0	2.0	2
45.0 46.0		As per 44.0 to 45.0.	313573	2.0	2.0	6.5	2.0	2.5	2
46.0 47.0		As per 45.0 to 46.0.	313574	2.0	3.5	4.5	1.5	1.5	2
47.0 48.0		Talc carbonate 95%. Pale serpentinite 5%. Trace chromite.	313575	1.0	3.5	6.0	1.0	1.5	X
48.0 49.0		As for 47.0 to 48.0.	313576	2.0	2.5	4.5	6.5	1.5	2
49.0 50.0		Talc carbonate 70%. Apple green serpentinite 20%. Dark serpentinite 10%.	313577	2.0	3.5	8.0	1.5	2.5	4
50 metres = End of Hole									

860169

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: 90° BEARING AT COLLAR: - MAG. GRID: \_\_\_\_\_

SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 3/4/87

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: Hall's Open Cut

LINE No. LOCATION ON LINE OR HOLE NUMBER: AHF-04 (87-04) LOG PAGE 3 OF 3

CHECK SAMPLE \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /



FIELD ENTRY  
LAB ENTRY  
103

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CO-ORDINATE FROM TO	DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE ABBREV GEOL DESCRIPTION ASSAY SUMMARY	SAMPLE NUMBER	RESULTS IN P.P.M UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT					
				Pt	Pd	Ru	Rh	Ir	Os
0 7.0		Fill. Not sampled.							
7.0 9.0		No sample return. Run more casing.							
9.0 11.0		Dark serpentinite. Talc carbonate rock and clay. Minor chromite.	283039	7.0	2.0	25	1.0	3.0	2
11.0 12.0		Talc carbonate. Light green serpentinite. Minor chromite.	283040	110	4.0	480	2.0	4200	4700
12.0 13.0		Talc carbonate. Dark green serpentinite. Light green serpentinite. Minor chromite.	283041	65	65	29	2.0	260	290
13.0 14.0		As for 12.0 to 13.0, but with trace of jasper. Minor chromite and trace Os.	283042	2.5	3.5	25	1.5	1.0	2
14.0 15.0		Similar to 14.0 to 15.0. Minor chromite.	283043	3.0	2.5	17	5.5	2.0	2
15.0 16.0		Talc carbonate rock 80%. Dark grey serpentinite 10%. Light grey 10%. Trace of chromite.	283044	8.5	2.0	7.0	1.5	2.0	2
16.0 17.0		As for 15.0 to 16.0.	283045	2.0	3.3	3.0	0.5	1.0	2
17.0 18.0		As for 16.0 to 17.0.	283046	x	1.0	5.5	1.5	1.5	2
18.0 19.0		Talc carbonate rock 90%. Light green serpentinite 10%. Trace of chromite.	283047	1.5	2.0	0.5	4.0	2.5	4
19.0 20.0		As for 18.0 to 19.0.	283048	7.0	2.5	44	1.5	2.0	2
20.0 21.0		Dark green serpentinite 60%. Pale green serpentinite 40%. Minor chromite.	283049	1.0	x	x	1.5	2.5	4
21.0 22.0		As for 20.0 to 21.0.	283050	3.0	9.0	8.5	1.5	1.5	4
22.0 23.0		Dark green serpentinite 50%. Light green serpentinite 50%. Minor chromite. Trace of steel.	283051	5.0	2.5	3.0	2.0	1.0	4
23.0 24.0		Talc carbonate 80%. Dark serpentinite 20%. Trace of chromite.	283052	1.0	3.5	1.9	0.5	1.5	8
24.0 25.0		Talc carbonate rock 50%. Jasper 50%. Trace of green serpentinite. Trace of chromite.	283053	1.0	6.0	x	x	1.5	4
25.0 26.0		Jasper 70%. Talc carbonate 20%. Pale green serpentinite 10%. Trace of chromite.	283054	x	4.5	x	1.5	2.0	2
26.0 27.0		As for 25.0 to 26.0.	283055	x	3.5	x	1.0	3.0	4
27.0 28.0		Jasper 80%. Pale green serpentinite 10%. Talc carbonate 10%. Trace chromite.	283056	2.0	x	4.5	3.0	5.0	12
28.0 29.0		Jasper 50%. Dark green serpentinite 20%. Light green serpentinite 20%. Talc carbonate 10%.	283057	0.5	x	4.0	1.5	2.5	4

860170

APP. AIR PHOTO OR DRAWING NO.  
 LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -87° BEARING AT COLLAR: 060 MAG. GRID  
 SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 14/4/87

CHECK SAMPLE  
 LAB. NOTES  
 CHEMIST  
 DATE: / /

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: Hall's Open Cut  
 LOCATION ON LINE OR HOLE NUMBER: AHP-05 (87-05) LOG PAGE: 1 of 3





METALS EXPLORATION LIMITED

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FIELD ENTRY  
LAB ENTRY  
155

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT					
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Ad	Ru	Rh	Ir	Cs
47.0	48.0		Dark green serpentinite 100%. Very clayey sample.	Moderate chromite.	283076	75	85	16	35	40	6
48.0	49.0		Dark green serpentinite 95%. serpentinite. Very clayey.	5% light green Moderate chromite.	283077	X	X	16	15	25	4
49.0	50.0		Dark green and light green serpentinite 60% and 40% respectively.		283078	X	X	11	10	15	X
50.0 metres = End of Hole.											

860472

DRAWING BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -870 BEARING AT COLLAR: 060 MAG./GRID: \_\_\_\_\_  
 SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 14/4/87 CHECK SAMPLE: \_\_\_\_\_ LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_  
 PROJECT CLARK: Adamsfield AREA OR GRID NAME: Hall's Open Cut  
 LOCATION ON LINE OR HOLE NUMBER: AHP-05 (87-05) LOG PAGE: 3 OF 3  
 LINE No: \_\_\_\_\_



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MEL LABORATORY

FIELD ENTRY  
LAB ENTRY  
1578

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL DESCRIPTION	ASSAY SUMMARY		Pt	Ad	Ru	Rh	Ir	Cs			
0	10		Fill and rubble. Talc carbonate and dark green serpentinite. Casing run to 10 metres.											
10.0	12.0		Green serpentinite/dark and light with heavy clay and possible trace of mica.	283079	X	0.5	6.5	2.0	1.0	4				
12.0	13.0		Talc carbonate and green serpentinite. Clayey sample. Minor chromite.	080	6.5	X	8.5	3.0	1.5	X				
13.0	14.0		Green serpentinite 100%, with clay. Trace of chromite.	081	5.0	X	2.6	3.5	2.0	2				
14.0	15.0		Talc carbonate 60%. Dark and light green serpentinite 40%. Possible Os, plus trace of chromite.	082	X	X	9.5	1.0	2.7	3.7				
15.0	16.0		Talc carbonate 80%. Light green serpentinite 20%. Minor chromite.	083	1.0	X	5.5	1.5	1.5	2				
16.0	17.0		Talc carbonate, jasper and serpentinite, approx. equal quantities. Trace chromite.	084	X	X	4.5	X	X	2				
17.0	18.0		Grey serpentinite, talc carbonate and clay. Some jasper. Trace of chromite.	085	X	X	6.5	X	X	X				
18.0	19.0		Green grey serpentinite, clay and some talc carbonate. Trace of chromite.	086	X	X	7.0	X	0.5	X				
19.0	20.0		As for 18.0 to 19.0.	087	5.5	2.5	11	2.5	1.0	1.3				
20.0	21.0		Light green serpentinite, clay and jasper. Trace of chromite.	088	2.5	X	6.5	3.5	X	X				
21.0	22.0		Serpentinite, talc carbonate, some jasper, with heavy clay.	313580	150	4.0	1000	3.8	6600	3400				
22.0	23.0		Dark green serpentinite with 5% talc carbonate. Trace of chromite.	581	5.0	4.5	12	3.0	4.0	3.4				
23.0	24.0		Pale brown serpentinite 70%. Light green serpentinite 30%. Possible Os.	582	12	8.0	2.7	5.0	1.30	1.60				
24.0	25.0		Pale brown serpentinite 30%. Light green serpentinite 70%. Trace of chromite.	583	3.5	4.0	1.4	3.5	6.0	1.0				
25.0	26.0		Pale brown serpentinite 10%. Light green serpentinite 90%. Trace of jasper and chromite.	584	8.0	6.5	1.1	3.5	4.0	6				
26.0	27.0		As for 25.0 to 26.0.	585	6.0	3.5	1.4	3.0	3.5	6				
27.0	28.0		Dark green, light green and grey serpentinite and talc carbonate rock, plus trace of chromite.	586	2.5	4.5	5.5	1.0	2.5	6				

860173

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -87° BEARING AT COLLAR: 060 MAG./GRID: \_\_\_\_\_

SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 4/4/8

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: Hall's Open Cut

LINE No: \_\_\_\_\_ LOCATION ON LINE OR HOLE NUMBER: AHP-06 (87-06) LOG PAGE 1 OF 3

CHECK SAMPLE \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: / /



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FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT					
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os
28.0	29.0		Green serpentinite, grey serpentinite and jasper.	Trace chromite.	313587	3.5	6.5	2.0	1.0	3.5	4
29.0	30.0		Similar to 28.0 to 29.0, but with talc carbonate.	Trace chromite.	313588	4.0	6.0	3.0	0.5	3.0	4
30.0	31.0		Green serpentinite, grey serpentinite, talc carbonate, jasper.	Trace of chromite.							
31.0	32.0		Light green serpentinite 60%, dark green serpentinite 40%.		312959	2.5	1.0	5.0	0.5	1.5	2
32.0	33.0		Dark green serpentinite 75%, light green serpentinite 25%.								
33.0	34.0		Dark and light green serpentinite 40%, talc carbonate rock 60%.	Minor chromite.							
34.0	35.0		Talc carbonate rock 75%.	Light green serpentinite 25%.	312960	2.0	1.0	6.5	1.0	2.5	4
35.0	36.0		Talc carbonate 80%.	Pale green serpentinite 20%.							
36.0	37.0		Dark green serpentinite 70%.	Talc carbonate 10%.							
37.0	38.0		Jasper 15%.	Trace of chromite.	312961	1.0	X	4.5	1.0	2.0	2
38.0	39.0		Apple green and dark green serpentinite 40% each.	Talc carbonate 20%.							
39.0	40.0		Dark green serpentinite 60%.	Pale green serpentinite 40%.							
40.0	41.0		Trace chromite.		312962	1.5	1.5	7.0	1.0	3.0	2
41.0	42.0		Talc carbonate 60%.	Light green serpentinite 30%.							
42.0	43.0		Jasper 70%.	Talc carbonate 10%.							
43.0	44.0		Light green serpentinite 20%.	Trace chromite.	312963	1.0	1.0	7.5	1.0	2.0	2
44.0	45.0		Jasper 50%.	Talc carbonate 10%.							
			Light green serpentinite 40%.	Minor chromite.							
			Talc carbonate 50%.	Jasper 40%.							
			Light green serpentinite 10%.	Minor chromite.							

860174

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -87° BEARING AT COLLAR: 060 MAG. GRID: 060

SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 4/487

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: Hall's Open Cut

LINE NO: LOCATION ON LINE OR HOLE NUMBER: AHP-06 (87-06) LOG PAGE 2 OF 3

CHECK SAMPLE

LAB NOTES:

CHEMIST: DATE: / /



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FIELD ENTRY  
LAB ENTRY

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X = BELOW DETECTION LIMIT					
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os
45.0	46.0		Talc carbonate 70%	Jasper 30%. Minor chromite.	312964						
46.0	47.0		As for 45.0 to 46.0.			1.0	0.5	6.0	1.0	2.0	X
47.0	48.0		Talc 80%. Light green serpentinite 20%. Minor chromite.								
48.0	49.0		Talc carbonate 90%. Light green serpentinite 10%. Moderate chromite.		312965						
49.0	50.0		As for 48.0 to 49.0.			2.0	1.0	7.5	1.5	5.0	6
			50 metres = End of Hole.								

860175

LOGGED BY: **D. Simpson** MACHINE: **Mobile B80** INCLINATION AT COLLAR: **-87°** BEARING AT COLLAR: **060** MAG/GRID

SAMPLE TYPE: **R.A.B./Percussion** FIELD ENTRY BY: **D. Simpson** DATE: **4/4/87**

PROSPECT OR PROJECT: **Adamsfield** AREA OR GRID NAME: **Hall's Open Cut**

LOCATION ON LINE OR HOLE NUMBER: **AHP-26 (87-06)** LOG PAGE: **3 OF 3**

CHECK SAMPLE

LAB. NOTES:

CHEMIST: \_\_\_\_\_ DATE: / /



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FIELD ENTRY  
LAB ENTRY  
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T USE No

COORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT								
FROM	TO		ABBREV GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os			
0	4.0		Casing set. No sample taken.											
4.0	5.0		Dark green fresh serpentinite. No concentrate.											
5.0	6.0		Dark green serpentinite 60%. Mid green serpentinite 40%. Trace of chromite.		312966	2.0	1.0	5.5	1.0	2.0	2			
6.0	7.0		Dark green and mid green serpentinite 50% each. Trace of chromite.											
7.0	8.0		Dark green and mid green serpentinite (chips up to 2 cm). Minor chromite.		312967	2.0	1.0	7.0	1.0	2.0	2			
8.0	9.0		Mid green and apple green serpentinite with some clay. Minor chromite.											
9.0	10.0		Dark grey to green serpentinite. Trace of chromite.											
10.0	11.0		Dark green and mid green serpentinite.		312968	0.5	1.0	3.5	0.5	1.0	X			
11.0	12.0		Dark green serpentinite (fresh). Trace of chromite.											
12.0	13.0		Dark green serpentinite 80%, mid green 20%. Trace of chromite.											
13.0	14.0		Dark green serpentinite 40%, pale grey serpentinite 30% and 30% talc carbonate rock. Trace of chromite.		312969	1.5	1.5	7.0	1.0	2.0	2			
14.0	15.0		Mid grey and green serpentinite 70%. 30% talc carbonate. Trace of chromite.											
15.0	16.0		Dark serpentinite 90%. 10% talc carbonate. Trace of chromite.											
16.0	17.0		Dark serpentinite 90%. Talc carbonate 10%. Trace of chromite.		312970	4.0	1.5	7.5	1.5	8.0	8			
17.0	18.0		Dark grey green serpentinite 80%. Talc 10%. Light green serpentinite 10%. Moderate chromite.											
18.0	19.0		Green serpentinite (dark, mid and light) 85%. Talc carbonate 10%. Minor jasper and moderate chromite.											
19.0	20.0		As for 18.0 to 19.0, with moderate chromite and trace of steel.		312971	81	35	530	20	4600	5800			
20.0	21.0		Mid green serpentinite 80%. Dark serpentinite 15% with 5% talc carbonate. Moderate chromite.											
21.0	22.0		As for 20.0 to 21.0.		313592	1.0	1.5	14	1.5	4.0	4			
22.0	23.0		As for 21.0 to 22.0.		313593	7.5	4.5	2.5	1.0	1.5	X			

860176

LOGGED BY: D. Simpson MACHINE: Mobile B80  
 SAMPLE TYPE: R.A.B./Percussion  
 Elevation at collar 424.9m  
 INCLINATION AT COLLAR: -60° BEARING AT COLLAR: 022 MAG/GRID  
 FIELD ENTRY BY: D. Simpson DATE: 15/ 487

CHECK SAMPLE  
 LAB NOTES  
 CHEMIST  
 DATE / /

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: Hall's Open Cut  
 LOCATION ON LINE OR HOLE NUMBER: AHP-07 (87-07) LOG PAGE 1 OF 2



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FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X = BELOW DETECTION LIMIT							
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os		
23.0	24.0		Serpentinite 70%. Talc carbonate 20%. Jasper 10%. Moderate chromite.		313594	12	25	8.0	15	8.0	10		
24.0	25.0		Mid and dark green serpentinite 60%. Talc 30%. 10% dark serpentinite. Moderate chromite.		313595	14	1.0	3.5	1.5	1.5	X		
25.0	26.0		Jasper 70%, serpentinite 10%. Talc carbonate 20%. Moderate chromite.		313596	4.0	3.0	1.0	1.0	1.0	X		
26.0	27.0		Talc carbonate 60%. Jasper 30%. Serpentinite 10%. Moderate chromite.		313597	0.5	2.5	5.0	X	X	X		
27.0	28.0		Mudstone 95%. Trace of jasper. Trace of chromite.		313598	2.0	X	4.5	1.0	1.0	X		
28.0	29.0		Siltstones and shales 90%. Trace of jasper. Trace of coarse chromite.		313599	0.5	3.0	2.5	0.5	X	X		
29.0	30.0		Grey shales and siltstones 95%. Trace of serpentinite, and trace of chromite.		283000	6.0	5.0	8.0	1.0	1.0	X		
30.0	31.0		Grey shales and siltstones 95%. 5% serpentinite. Trace of chromite.		283001	4.0	4.5	6.5	1.0	1.0	4		
31.0	32.0		Grey shales and siltstones 90%. Green serpentinite 10%. Trace of chromite.		283002	3.0	2.0	12	0.5	1.0	X		
			32.0 metres = End of Hole.										

860177

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -60° BEARING AT COLLAR: 022 MAG. GRHD

SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 15/4/87 CHECK SAMPLE

LAB. NOTES: CHEMIST: DATE: / /

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: Hall's Open Cut

LINE NO: LOCATION ON LINE OR HOLE NUMBER: AHP-07 (87-07) LOG PAGE 2 OF 2

LOG & ANALYTICAL REPORT Sheet No. of A/O



FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X= BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Cs			
0	3.0		Open hole in fill and some pale green serpentinite. Run casing to 3 metres.											
3.0	4.0		Pale green serpentinite 95%. 5% grey serpentinite. Trace of chromite.											
4.0	5.0		Pale green serpentinite 95%. 5% carbonate. Minor chromite.											
5.0	6.0		50% dark green serpentinite. 40% light green serpentinite. 10% talc carbonate. Minor chromite. As for 5.0 to 6.0.		312648	2.0	2.5	7.0	0.5	1.5	4			
6.0	7.0		40% dark green serpentinite. 40% light green serpentinite. 20% talc carbonate. Minor chromite. As for 7.0 to 8.0.		312649	3.0	2.5	8.5	0.5	1.5	4			
7.0	8.0		90% light green serpentinite. 10% talc carbonate. Minor chromite.											
8.0	9.0		80% dark green serpentinite. 20% light green serpentinite. Trace of talc carbonate											
9.0	10.0		Trace of chromite.		312650	2.0	2.5	4.5	0.5	3.0	4			
10.0	11.0		80% dark green serpentinite. 20% light green serpentinite. Trace of chromite.											
11.0	12.0		90% dark green to grey serpentinite. 5% light green serpentinite. Trace of chromite.											
12.0	13.0		90% white clay. 10% serpentinite. Possible fault zone.											
13.0	14.0		Talc carbonate and jasper with clay. Too clayey to pan.		312651	3.0	2.5	8.0	1.5	3.5	4			
14.0	15.0		Talc carbonate, jasper and clay. Minor chromite.											
15.0	16.0		Talc carbonate, jasper and clay. Trace chromite.											
16.0	17.0		Grey serpentinite 40%. Talc carbonate 30%. Jasper 30%. Trace of chromite.		312652	3.0	2.5	6.5	1.0	8.0	8			
17.0	18.0		Grey siliceous serpentinite 60%. Talc carbonate 20%. Jasper 20%. Trace chromite and steel.											
18.0	19.0		As for 18.0 to 19.0.											
19.0	20.0		Talc carbonate 40%. Grey serpentinite 20%. Jasper 40%. Moderate chromite.		312653	2.0	3.0	11	1.0	3.0	4			
20.0	21.0													

860178

AP. AIR PHOTO OR DRAWING No. \_\_\_\_\_  
 LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -87° BEARING AT COLLAR: 060 MAG./GRID: \_\_\_\_\_  
 SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 21/487

CHECK SAMPLE \_\_\_\_\_ LAB. NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: Hall's Open Cut  
 LOCATION ON LINE OR HOLE NUMBER: AHP-08 (87-08) LOG PAGE 1 OF 3



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FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X-BELOW DETECTION LIMIT					
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os
21.0	22.0		Talc carbonate 50%. Grey serpentinite 20%. Blue grey 20%. Minor chromite.								
22.0	23.0	1c	Talc carbonate 90%. Grey serpentinite 10%. Moderate chromite.								
23.0	24.0		Talc carbonate, blue-grey serpentinite equal. Trace of chromite.	312654	15	20	85	10	20	X	
24.0	25.0		Talc carbonate, blue-grey serpentinite equal. Trace chromite and steel.								
25.0	26.0	Sid	Jasper 80%. Grey serpentinite 10%. Talc carbonate 10%. Trace of chromite.								
26.0	27.0		60% grey serpentinite. 20% jasper. 20% talc carbonate. Trace chromite.	312655	10	30	90	10	15	2	
27.0	28.0		Blue grey serpentinite 70%. Jasper 20%. Talc carbonate 10%. Trace of chromite.								
28.0	29.0		Talc carbonate 80%. Jasper 10%. Grey serpentinite 10%. Trace of chromite.	283003	15	25	14	15	20	4	
29.0	30.0		As for 28.0 to 29.0.	283004	10	45	13	10	25	4	
30.0	31.0		Talc carbonate 40%. Jasper 40%. Dark grey serpentinite 20%. Minor chromite.	283005	30	45	13	15	10	4	
31.0	32.0		Talc carbonate 80%. Jasper 10%. Dark serpentinite 10%. Trace carbonate and chromite.	283006	40	30	65	15	10	4	
32.0	33.0	1c	Talc carbonate, dark serpentinite and jasper roughly equal. Trace chromite and steel.	283007	20	30	14	05	X	X	
33.0	34.0		Talc carbonate and dark serpentinite = 80%. Jasper 20%. Trace of asbestos and chromite.	283008	90	45	12	20	15	4	
34.0	35.0		Jasper 70%. Dark serpentinite 10%. Talc carbonate 20%. Trace of chromite.	283009	14	12	16	25	20	4	
35.0	36.0		Dark grey serpentinite 40%. Jasper 40%. Talc carbonate 20%. Trace of chromite.	283010	35	75	12	15	10	X	
36.0	37.0		Dark grey serpentinite 50%. Jasper 30%. Talc carbonate 20%. Trace of chromite.	283011	20	20	14	15	15	4	
37.0	38.0		Dark grey serpentinite 60%. Jasper 20%. Talc carbonate 20%. Minor chromite.	283012	40	10	19	20	15	4	

860179

MAP, AIR PHOTO OR DRAWING NO. \_\_\_\_\_

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -87° BEARING AT COLLAR: 060 MAG./GRIT: \_\_\_\_\_

SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 21/487

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: Hall's Open Cut

LINE No. \_\_\_\_\_ LOCATION ON LINE OR HOLE NUMBER: A4P-08 (87-08) LOG PAGE 2 OF 3

CHECK SAMPLE \_\_\_\_\_

LAB NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /



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FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE FROM TO	DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE ABBREVI. GEOL. DESCRIPTION ASSAY SUMMARY	SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT					
				Pt	Pd	Ru	Rh	Ir	Os
38.0 39.0		Green serpentinite 40%. Jasper 40%. Talc carbonate 20%. Trace of carbonate.	283013	4.5	4.0	19	1.0	0.5	4
39.0 40.0		Green serpentinite 85%. Talc carbonate 15%. Trace chromite.	283014	12	6.0	6.0	1.5	1.0	2
40.0 41.0		As for 39.0 to 40.0, but with slightly coarser chromite.	283015	9.5	5.5	14	2.5	0.5	4
41.0 42.0		Talc carbonate 50%. Dark serpentinite 25% and light green serpentinite 25%. Moderate chromite.	283016	x	1.0	7.5	1.5	1.0	x
42.0 43.0		Talc carbonate. Light green serpentinite and dark green serpentinite approx. equal. Trace fine grained chromite.		x	1.0	3.0	0.5	4.5	4
43.0 44.0		Dark green serpentinite 40%. Light green serpentinite 40%. Talc carbonate 20%. Trace fine grained chromite.							
44.0 45.0		Dark green serpentinite 90%. Light green serpentinite 5% and talc carbonate 5%. Trace of fine chromite.	312661	0.5	1.0	11	0.5	2.0	x
45.0 46.0		Dark green serpentinite 40%. Light green serpentinite 50%. Talc carbonate 50%. Trace chromite.							
46.0 47.0		As for 45.0 to 46.0.							
47.0 48.0		Light green serpentinite 90%. Dark green serpentinite 10%. Trace chromite and steel.	312662	x	1.5	7.5	0.5	5.0	6
48.0 49.0		Light green serpentinite 60%. Dark green serpentinite 30%. Talc carbonate 10%. Minor chromite.							
49.0 50.0		Light green serpentinite 70%. Talc carbonate 30%. Trace chromite.	312663	1.0	2.5	6.5	x	1.5	x
		50 metres = End of Hole.							

860180

MAP, AIR PHOTO OR DRAWING NO. \_\_\_\_\_

LOGGED BY: D. Simpson

SAMPLE TYPE: R.A.B./Percussion

MACHINE: Mobile B80

INCLINATION AT COLLAR: -87°

BEARING AT COLLAR: 060

MAG. #060

FIELD ENTRY BY: D. Simpson

DATE: 21/4/87

PROSPECT OR PROJECT: Adamsfield

AREA OR GRID NAME: Hall's Open Cut

LOCATION ON LINE OR HOLE NUMBER: ALP-08 (87-08)

LOG PAGE 3 OF 3

CHECK SAMPLE

LAB NOTES

CHEMIST

DATE: / /



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FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X = BELOW DETECTION LIMIT									
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os				
0	10.0		Clay at surface.	No sample taken.											
10.0	11.0		Dark green serpentinite 70%.	Light green serpentinite 30%. Minor chromite.	312664	5.5	2.5	12	1.5	24	32				
11.0	12.0		Dark green serpentinite 70%.	Light green serpentinite 30%, possibly laminated.											
12.0	13.0		As for 11.0 to 12.0.												
13.0	14.0		As for 12.0 to 13.0. Trace of chromite. Hole caving.												
14.0	15.0		As for 13.0 to 14.0.		312665	7.5	2.0	9.0	1.5	4.5	6				
15.0	16.0		Dark green and light green serpentinite with some carbonate. Trace chromite.												
16.0	17.0		As for 15.0 to 16.0.		283018	18	1.5	2.5	1.5	1.0	6				
17.0	18.0		Light green serpentinite 70%. 30% dark serpentinite. Trace of carbonate. Minor chromite.		283019	12	9.5	3.5	2.0	0.5	4				
18.0	19.0		Light green serpentinite 60%. Dark green serpentinite 30%. Trace of carbonate. Trace of chromite and steel.		283020	6.5	10	4.5	1.5	X	X				
			<p>Drilled ahead to 21.0 metres. Complete loss of air and sample return. Air coming up through old workings. Abandoned hole and site.</p> <p>End of Hole = 19 metres.</p>												

4th collar ~ 14m west of estimated hole position  
Elevation at collar: 420.9

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -60° BEARING AT COLLAR: 030° MAG./GRM: FIELD ENTRY BY: D. Simpson DATE: 22/4/87

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: North of Hall's Open Cut. LOCATION ON LINE OR HOLE NUMBER: AHP-9 (87-09) LOG PAGE 1 OF 1

CHECK SAMPLE: LAB NOTES: CHEMIST: DATE: / /



860181

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FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X=BELOW DETECTION LIMIT									
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Cs				
0	3.0		Casing run. No sample.												
3.0	4.0		Shales, siltstones, some carbonate.												
4.0	5.0		Shales and siltstones. Trace carbonate. Trace of chromite.		312667	4.5	4.0	3.0	0.5	2.5	X				
5.0	6.0		Shales and siltstones. Minor carbonate and minor chromite.												
6.0	7.0		Shales, siltstones and jasper. Trace of carbonate and minor chromite.												
7.0	8.0		Shales, siltstones and trace of jasper. Minor carbonate and trace of chromite.		312668	7.5	3.0	3.5	1.0	1.0	X				
8.0	9.0		Shales, siltstones and trace of carbonate. Minor chromite.												
9.0	10.0		Shales, siltstones and trace of carbonate. Minor chromite.												
10.0	11.0		Shales, siltstones and trace of carbonate. Minor chromite.		312669	18	2.5	3.0	1.5	1.0	2				
11.0	12.0		Shales, siltstones and trace of carbonate. Minor chromite.												
			Holes stopped at 12 metres in Adamsfields Beds. (Interpretation)												

AP, AIR PHOTO DRAWING No. \_\_\_\_\_

LOGGED BY: **D. Simpson** MACHINE: **Mobile B80** INCLINATION AT COLLAR: **-90°** BEARING AT COLLAR: **-** MAG./GRID: **-**

SAMPLE TYPE: **R.A.B./Percussion** FIELD ENTRY BY: **D. Simpson** DATE: **22/4/8**

PROSPECT OR PROJECT: **Adamsfield** AREA OR GRID NAME: **North of Hall's Open Cut**

LINE No.: \_\_\_\_\_ LOCATION ON LINE OR HOLE NUMBER: **AHP-10 (87-10)** LOG PAGE **1** OF **1**

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_

DATE: / /

860182

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FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED, X-BELOW DETECTION LIMIT								
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os			
0	3.0		Dark green serpentinite.	Not sampled. Run casing to 3 metres.										
3.0	4.0		Mid to dark green serpentinite.	Trace of chromite.	283024	x	2.5	12	3.0	1.5	2			
4.0	5.0		Mid to dark green serpentinite.	Moderate chromite.	283025	x	0.5	4.5	3.0	x	3			
5.0	6.0		As for 4.0 to 5.0.		283026	x	9.5	3.5	3.5	0.5	x			
6.0	7.0		Dark green serpentinite.	Trace of chromite.	283027	x	19	4.5	3.0	1.0	x			
7.0	8.0		As for 6.0 to 7.0.		283028	2.0	1.0	4.0	1.0	0.5	x			
8.0	9.0		Dark green serpentinite.	Minor chromite.	283029	4.0	1.0	2.0	0.5	1.0	2			
9.0	10.0		As for 8.0 to 9.0.		283030	x	1.0	13	1.0	x	x			
10.0	11.0		Dark green serpentinite.	Trace of chromite.	283031	2.0	2.5	1.5	1.5	x	x			
11.0	12.0		As for 10.0 to 11.0.		283032	x	2.0	9.5	1.5	2.0	x			
12.0	13.0		Dark green serpentinite 60%.	Blue green serpentinite 40%. Trace of chromite.	283033	9.0	4.0	7.5	2.0	3.0	4			
13.0	14.0		Dark green serpentinite 60%.	Blue green serpentinite 40%. Trace of chromite.	283034	6.5	11	4.3	2.5	0.5	2			
14.0	15.0		Grey clay 80%.	Dark green serpentinite 10%. Light green serpentinite 5%. Jasper 5%. Moderate chromite (possible fault zone).	283035	10	13	x	1.5	1.0	x			
15.0	16.0		As for 14.0 to 15.0.		283036	8.0	5.0	6.0	1.0	0.5	x			
16.0	17.0		Grey clay 40%.	Pinkish shale 40%. Dark green serpentinite 10%. 10% carbonate. Minor chromite (by acid test possible sulphide also).	283037	4.0	5.5	5.0	1.0	2.0	x			
17.0	18.0		Grey clay 40%.	Pink grey shale 50%. Minor carbonate. Trace pale green serpentinite. Minor chromite.	283038	4.5	4.0	2.5	1.0	3.5	x			
18.0	19.0		Grey clay 90%.	5% pale green serpentinite. 5% dark green serpentinite. Trace of chromite.	312675	4.5	3.0	3.0	1.0	4.5	4			
19.0	20.0		Grey clay 80%.	Shale 10%. Light and dark green serpentinite 10%. Trace of chromite.										
20.0	21.0		Pale grey clay 20%.	Grey shale 80%. Trace of chromite.										
21.0	22.0		Pale grey clay 70%.	Grey shale 20%. Minor chromite and pale green serpentinite.	312676	2.0	1.5	1.0	x	0.5	x			
22.0	23.0		As for 21.0 to 22.0.											

860183

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: **D. Simpson** MACHINE: **Mobile B80** INCLINATION AT COLLAR: **-90°** BEARING AT COLLAR: **-** MAG/GRD: **22/4/87**

SAMPLE TYPE: **R.A.B./Percussion** FIELD ENTRY BY: **D. Simpson** DATE: **23/4/87**

PROSPECT OR PROJECT: **Adamsfield** AREA OR GRID NAME: **North of Hall's Open Cut.**

LOCATION ON LINE OR HOLE NUMBER: **AHD-17 (87-11)** LOG PAGE: **1 of 2**

CHECK SAMPLE: \_\_\_\_\_

LAB. NOTES: \_\_\_\_\_

CHEMIST: \_\_\_\_\_ DATE: / /

FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X=BELOW DETECTION LIMIT									
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os				
23.0	24.0		Pale grey clay 70%, grey shale 20%, trace chromite and pale green serpentinite.												
24.0	25.0		Grey to pinkish shale 100%. Trace chromite.												
25.0	26.0		As for 24.0 to 25.0, but with trace of pyrite.		312677	2.0	1.0	1.5	x	x	x				
26.0	27.0		Pale grey pinkish shale, with clay, with trace of pyrite and chromite.												
27.0	28.0		As for 26.0 to 27.0.		312678	1.0	1.5	0.5	x	x	x				
			28 metres = End of Hole.												

860184

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -90° BEARING AT COLLAR: - MAG/GRID: 22/4/87

CHECK SAMPLE

SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE: 23/4/87 LAB NOTES: \_\_\_\_\_ CHEMIST: \_\_\_\_\_ DATE: / /

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: North of Hall's Open Cut

LINE No: \_\_\_\_\_ LOCATION ON LINE OR HOLE NUMBER: AHP-12 (87-11) LOG PAGE: 2 OF 2



METALS EXPLORATION LIMITED

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FIELD ENTRY  
LAB ENTRY

CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X - BELOW DETECTION LIMIT						
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Cs	
0	3.0		Fill.	Not sampled. Set casing to 3 metres.								
3.0	4.0		Dark green serpentinite (plus clear green mineral, possible Olivine).	Trace of chromite.	312679	1.5	1.0	4.5	0.5	0.5	X	
4.0	5.0		Dark green serpentinite (possibly altered dunitite).	Trace of chromite.								
5.0	6.0		As for 4.0 to 5.0.									
6.0	7.0		As for 5.0 to 6.0.		312680	1.5	1.0	3.0	1.0	0.5	X	
7.0	8.0		Dark green grey serpentinite.	Trace of chromite.								
8.0	9.0		As for 7.0 to 8.0.									
9.0	10.0		Bright green serpentinite and blue grey serpentinite 70% and 30% respectively.	Moderate chromite.								
10.0	11.0		Bright green serpentinite and blue grey serpentinite 50% each.	Trace of asbestos and chromite.	312681	2.5	1.5	4.0	1.0	X	X	
11.0	12.0		Bright green serpentinite and blue grey serpentinite 60% and 40% respectively.	Trace of asbestos and chromite.								
12.0	13.0		Blue green serpentinite 100%.	Trace of asbestos and chromite.	312682	2.5	1.0	3.0	1.5	1.0	X	
13.0	14.0		As for 12.0 to 13.0.									
14.0	15.0		Blue green serpentinite 98%.	2% asbestos. Trace of chromite.								
15.0	16.0		Blue green serpentinite 95%.	5% asbestos. Rare chromite.								
16.0	17.0		Blue green serpentinite 90%.	10% asbestos. Trace of chromite.	312683	3.0	2.0	4.5	1.0	0.5	X	
17.0	18.0		Blue green serpentinite 95%.	5% asbestos. Trace of chromite.								
18.0	19.0		As for 17.0 to 18.0.									
19.0	20.0		Dark green serpentinite 85%, with 5% light green serpentinite and 10% asbestos.	Trace of chromite.	312684	4.0	2.0	5.0	1.0	X	X	
20.0	21.0		Dark green serpentinite 70%.	Light green serpentinite 25%. 5% asbestos. Trace of chromite.								
21.0	22.0		As for 20.0 to 21.0.									

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860185

Elevation at collar: 424.6m

D. Simpson MACHINE Mobile B80 INCLINATION AT COLLAR -60° BEARING AT COLLAR 042 MAG./GRAB

R.A.B./Percussion FIELD ENTRY BY: D. Simpson DATE 23/4/87

PROJECT OR PRODUCT: Adamsfield AREA OR GRID NAME: North of Hall's Open Cut.

LINE No.: LOCATION ON LINE OR HOLE NUMBER: AHP-12 (87-12) LOG PAGE 1 OF 3

CHECK SAMPLE

LAB NOTES:

CHEMIST

DATE: / /

LOG & ANALYTICAL REPORT Sheet No. of A/O

100m from AHP-11; 18m from bore position



METALS EXPLORATION LIMITED

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FIELD ENTRY  
LAB ENTRY

CO. ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN P.P.M. UNLESS OTHERWISE STATED; X-BELOW DETECTION LIMIT					
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY		Pt	Pd	Ru	Rh	Ir	Os
22.0	23.0		Dark green serpentinite 70%. Trace of asbestos.	Light green serpentinite 30%.	312685	55	0.5	5.5	1.5	0.5	X
23.0	24.0		Dark green serpentinite 80%. Minor chromite.	Light green serpentinite 20%.							
24.0	25.0		As for 23.0 to 24.0.								
25.0	26.0		Dark green serpentinite 80%. Trace of asbestos and chromite.	Light green serpentinite 20%.	312686	5.5	1.5	3.5	1.0	1.0	X
26.0	27.0		Dark green serpentinite 95%. Trace of asbestos and chromite.	5% light green serpentinite.							
27.0	28.0		Light green serpentinite 80%. Trace of asbestos.	Dark green serpentinite 20%.							
28.0	29.0		Light green serpentinite 80%. Trace of asbestos.	Dark green serpentinite 15%. 5% asbestos.	312687	4.0	1.5	4.5	1.0	0.5	X
29.0	30.0		Light green serpentinite 90%. Trace of asbestos.	Light green serpentinite 8%. 2% asbestos.							
30.0	31.0		Light green serpentinite 60%. Trace of asbestos.	Dark green serpentinite 40%.							
31.0	32.0		Dark green serpentinite 70%. Trace of asbestos.	Light green serpentinite 28%, 2% asbestos.	312688	1.5	1.0	5.5	1.0	X	X
32.0	33.0		Pink grey shales and siltstones 85%. Trace chromite.	5% light green serpentinite.							
33.0	34.0		Pink grey shales and siltstones 65%. Trace chromite.	35% light green serpentinite.							
34.0	35.0		Pink grey shales and siltstones 85%. Trace chromite.	15% light green serpentinite.	312689	1.5	1.1	2.0	0.5	X	X
35.0	36.0		Pink grey shales and siltstones 90%. Trace chromite.	10% light green serpentinite.							
36.0	37.0		Pink grey shales and siltstones 80%. Trace chromite.	10% dark green serpentinite, 10% light green serpentinite.							
36.0	38.0		Pink grey shales and siltstones 95%. Trace chromite.	5% light green serpentinite (light green serpentinite probably cave material).	312690	X	1.5	2.5	X	0.5	2

10.9

860186

LOGGED BY: D. Simpson  
 MACHINE: Mobile B80  
 INCLINATION AT COLLAR: -60°  
 BEARING AT COLLAR: 042  
 MAG/GRID: 042  
 SAMPLE TYPE: R.A.B./Percussion  
 FIELD ENTRY BY: D. Simpson  
 DATE: 23/4/88  
 PROJECT: Adamsfield  
 AREA OR GRID NAME: North of Hall's Open Cut  
 LOCATION ON LINE OR HOLE NUMBER: AHP-12 (87-12)  
 LOG PAGE 2 OF 3

CHECK SAMPLE  
 LAB NOTES  
 CHEMIST  
 DATE / /

METALS EXPLORATION LIMITED

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FIELD ENTRY  
LAB ENTRY  
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CO-ORDINATE		DEPTH OR INTERVAL	GEOLOGICAL DESCRIPTION OF SAMPLE		SAMPLE NUMBER	RESULTS IN PPM UNLESS OTHERWISE STATED, X-BELOW DETECTION LIMIT			
FROM	TO		ABBREV. GEOL. DESCRIPTION	ASSAY SUMMARY					
38.0	39.0		Pale pink grey shales and siltstones 90% and 10% light green serpentinite (light green serpentinite probably cave material).		372690				
		39.0 =	End of Hole.						
NOTE: Lode position not seen in cuttings panned.									

MAP, AIR PHOTO OR DRAWING No. \_\_\_\_\_

LOGGED BY: D. Simpson MACHINE: Mobile B80 INCLINATION AT COLLAR: -60° BEARING AT COLLAR: 042 MAG./GRID: 0423 A 87

SAMPLE TYPE: R.A.B./Percussion FIELD ENTRY BY: D. Simpson LAB NOTES: \_\_\_\_\_

PROSPECT OR PROJECT: Adamsfield AREA OR GRID NAME: North of Hall's Open Cut CHEMIST: \_\_\_\_\_ DATE: / /

LINE No. \_\_\_\_\_ LOCATION ON LINE OR HOLE NUMBER: AHP-12 (87-12) LOG PAGE 3 OF 3



LOG & ANALYTICAL REPORT Sheet No. \_\_\_\_\_ of A/O \_\_\_\_\_

800157

APPENDIX 5

REPORT ON  
PERCUSSION DRILLING PROGRAM  
ADAMSFIELD, TASMANIA  
FOR METALS EXPLORATION LTD.

by D.C. Simpson  
Consulting Geologist  
May 1987

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## PERCUSSION DRILLING PROGRAMME

## ADAMSFIELD, TASMANIA

1. INTRODUCTION

In late March 1987 Mr. T. Summons of Metals Exploration Ltd. requested the author to supervise a percussion drilling program at Adamsfield near Maydena. This was to include supervision of access track upgrading and drill site preparation.

Track preparation commenced on 4 April 1987 while drilling commenced on 8 April 1987.

This report summarises the program and includes hole objectives and results, a drill hole schedule, daily drilling notes, geological cross sections and methods employed.

## 2. PROGRAM OBJECTIVES

Metals Exploration Ltd.'s previous drilling experience led them to believe that the primary mineralisation at Adamsfield was confined to a steeply dipping thin sheet-like structure within which possibly several shoots existed. In this program the objective was to maximise the possibility of drilling in lode by drilling down the dip of the mineralisation. To achieve this the holes were to be collared in, or as close as possible to, the line of the *old workings*.

The program allowed for 15 holes each of 50 metres length, giving a total of 750 metres.

As the program progressed, it became apparent that in the northern half of the prospect down dip drilling would not be possible with the sites available which were on the hanging wall.

The program was then modified to allow, in part, conventional drilling across the dip either at high or shallow angle.

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### 3. METHODS

#### 3.1 Drill Site Location

Drill sites were established by Mr. T. Summons (Senior Geologist - Metals Exploration Ltd.) with the detail of collar position being left to the author. There is no established grid over the area in question so drill collar spacing is variable.

#### 3.2 Drill Hole Orientation

The drill rig was positioned so that holes were drilled as close as possible to being *normal* to strike of the lode. However, in some cases because of site space, the *direction of drilling* may have been up to 10° from normal.

#### 3.3 Drill Angle Set Up

This was carried out by setting an inclinometer on the mast of the drill. Accuracy is to within 1/4 degree.

#### 3.4 Pre-Collar Sampling

Because of the possibility of contamination from old workings, fill and hole caving, no sampling was undertaken until after the casing had been placed in the hole. Advice from the driller was taken as to where the bedrock/fill interface was located.

### 3.5 Down Hole Sampling

This was carried out in accordance with standing M.E.L. procedure.

Samples for analysis were composites made up from three only one-metre-interval speared samples. The remainder of the sample was bagged for storage and later use if needed.

Because of the wet nature of some of the samples, some fine particle sizes were lost when the sample bin overflowed. This was particularly so when foam was being used in the system to assist in lifting larger fragments up the hole.

### 3.6 Logging of Chips

A sub-sample of every one metre sample was taken for washing and panning to concentrate for geological logging purposes immediately after collection.

This provided the basis for the recorded geological log. Where any metallic particles were present, a magnet was passed over them to distinguish steel and possible magnetite from other minerals.

Hydrochloric acid was also used on a regular basis to test for the presence of carbonate.

Percentages of each rock type were usually recorded; otherwise a major rock type plus traces of another (i.e. major rock type is greater than 90%).

One problem in logging was the presence of talc which, if abundant, floats off in the panning process and also is highly aerated following drilling (if dry). Thus recorded percentages where much talc is present should be taken as a guide only.

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4. RESULTS

A total of 12 holes aggregating 462 metres was drilled at Hall's Open Cut which was 61.6% of that budgetted. Drilling was carried out over 7-1/2 days giving an average of 61.6 metres per day. Starting date of the drilling was 8 April 1987 with the last hole being drilled on 23 April 1987. Prior to, during and following this drilling, other drilling was performed by the drill crew and part of this, the holes on Football Hill, is reported separately in the Supplement.

The holes in the area of Hall's Open Cut confirmed the presence of a talc-carbonate alteration zone which appears to be in a footwall position. However, it was not confirmed from the down-dip program where the lode was in relation to the alteration zone. Presence of Osmiridium at 14 and 36 m in Hole 87-05 suggests that the Os may occur in the alteration zone as well as the 'lode'.

Minor chromite is present in all rock types panned with little variation in percentage contained. Some variation was seen in grain size with good crystalline chromite up to 1.5 mm being occasionally seen.

No rocks which could be termed chromitites were seen during the program, nor were any pyroxenites seen. Serpentinite dominated the unaltered rocks on the eastern side of the lode position with colour and massive or foliated nature being the prominent distinguishing features.

Drilling in the northern part of the area (i.e. north of the source of strike change) showed that the dip of the lode horizon is steep to the west. It also showed that the talc-carbonate alteration does not extend northward to Sites 10 and 11.

#### Factors Affecting Results

Two factors affected the obtaining of results in the program. Firstly, rain adversely affected access to drill sites with half a day being lost in de-bogging vehicles and travelling slippery tracks. Consequently one site, Site 7, was not drilled.

Bad ground conditions also affected the program, resulting in the abandonment of one hole, Hole 87-09, and slow drilling in several others. It is suspected that air was lost into either workings or a fault zone preventing sample return.

Hole 87-01

Site 3

The first hole was set up at  $-85^\circ$  which was derived as follows:-

The interpreted dip of the lode is  $80^\circ$  - NE from the AD 86-01 Section. Bearing in mind the foliated nature of rocks, I felt that the hole most probably would have steepened by around  $5^\circ$  at 120 m thus giving the lode a dip of about  $85^\circ$ .

Therefore 87-01 was set up on the line of lode and drilled down dip at  $-85^{\circ}$  to the north east.

A trace of Osmiridium was seen at 22-23 m in a talc-carbonate rock. The hole then passed into substantially unaltered serpentinite with abundant asbestos near the end of the hole. It was interpreted from this hole that the lode was dipping shallower than the drill hole.

Hole 87-02

Site 2

This hole was set up at  $-84^{\circ}$  to the north-east close to the southern end of the open cut. The hole was stopped at 30 m after passing through grey siliceous rocks which could have represented a sliver of Adamsfield beds.

Hole 87-03

Site 2

The drill rig was then moved 2 metres east and a vertical hole drilled to 50 m. This passed through similar rocks to 87-02 then into talc-carbonate and serpentinite with locally abundant asbestos. I interpret that this lode started in the lode position, passed through a footwall alteration zone and then into footwall serpentinite.

Hole 87-04

Site 4

This hole was set up at  $90^{\circ}$  and drilled to 50 m, passing through similar zones of strong talc-carbonate alteration and jasper-like material. In hindsight, this hole was probably set at too steep an angle probably finishing well into the footwall alteration zone.

Hole 87-05

Site 5

This hole was set up at  $-87^\circ$  and drilled to the north-east.

In this hole Osmiridium was noticed at 14 m and 37 m suggesting that the hole may have been drilled close to the true dip angle of the lode horizon.

Over the last 7 metres of the hole, samples were clay rich and often low in volume. This may represent a fault zone. /

Hole 87-06

Site 6

Similar to hole 87-05, this hole was set up at  $-87^\circ$  to the north-east and collared in fill which was 10 metres thick. The hole continued in partly or heavily altered serpentinite for most of its depth ending in talc-carbonate rocks at 50 metres. Possible Osmiridium was seen in panned concentrates at 14 and 25 metres.

Hole 87-07

Site 9

This hole was drilled on Site 9 which is located on the northern extension of the workings where the strike swings about 20 degrees westward of the lode direction in the open cut.

An angle of  $-60^\circ$  was used for the hole to assist in determining the dip of the lode in this area. Results showed that the lode dips steeply westward possibly around  $85^\circ$ .

A substantial zone of talc-carbonate alteration occurs on the hanging-wall (western side) to the suspected lode position, however no Osmiridium was seen in the cuttings from this hole. Following a very altered (talc-carbonate) zone, the hole passed into Adamsfield Beds.

Hole 87-08

Site 1

The purpose of this hole was to determine the southern limits of the lode horizon and collar position was selected by line of site along the workings to the north. No workings exist at this site.

The hole, collared at  $-87^{\circ}$  towards the north-east, passed through variably altered serpentinite, talc-carbonate rock and jasper-like alteration and finished in partly altered serpentinite at 50 m. No Osmiridium was seen in the cuttings, however the presence of talc-carbonate alteration here may indicate that the mineralised horizon could continue southward.

Hole 87-09

Site 8

This hole was set up at  $-60^{\circ}$  to test the lode position in the area where the lode strike is further west than in the main workings.

Drilling difficulties caused abandonment of the hole at 20 m with no sample or air return. The last sample collected (18-19 m) was slightly carbonate altered serpentinite.

Target depth for the hole was 35 m.

Hole 87-10

Site 10

This hole was designed to test the lode position with a vertical hole from site close to the tail of workings, but was collared too far east and was stopped in Adamsfield Beds at 12 metres. The drill rig was then moved forward 3 metres to drill 87-11.

Hole 87-11

Site 10

Collared in friable serpentinite this hole, drilled vertically, then passed into a heavy grey clay zone from 14 to 24 metres. This is interpreted to be a fault zone and possibly the lode position although no Osmiridium was seen in the panned concentrates. No talc-carbonate seen.

The hole was stopped in Adamsfield Beds at 28 metres.

Hole 87-12

Site 11

This site was the most northerly selected for the current program. The hole was set up at  $-60^\circ$  and targetted to intersect the lode position approximately 10 metres below that achieved by AD 86-02, but as far north as the drill site would allow. This was a change from that planned (i.e. a  $-80^\circ$  hole collared closer to the lode) because of the difficulties encountered with drilling down the clay zone in Hole 87-11.

The hole passed from generally unaltered serpentinite to Adamsfield Beds without any sign of a lode position and stopped at 39 metres. There was no evidence of a talc-carbonate alteration zone, although traces of vein carbonate were seen.

SUPPLEMENTFootball Hill Drilling

Metals Exploration Ltd. originally planned two holes in this area to test the sandstones here as a source of Osmiridium. One hole was planned to be drilled on the flat immediately to the west of the hill with a second on the western slope.

The first hole, ATP 17, was planned to go to 20 metres and this was achieved. After passing through a weathered horizon, a green-grey to brownish sandstone was encountered which contained fragments of possible serpentinite and pale green minerals chips (possibly pyroxene). Traces of chromite were also seen but no Osmiridium.

A second hole was planned to drill near ATP 17 but targetted for a final depth of 50 m. The hole ATP 18 was sited 12 m from ATP 17, but had to be abandoned after complete loss of return in broken ground.

Following the Hall's Open Cut drilling a third attempt was made at drilling the sandstones from a site on top of Football Hill.

This hole, ATP 19, drilled through similar sandstones to ATP 17 and 18 and also contained minor carbonate (possibly calcite) throughout the hole. Caving and partial loss of return were characteristic of the drilling of this hole.

Rare chromite and very rare pyrite were noted in the chips. No Osmiridium was seen.

The hole was abandoned following hammer failure at 37 m.

## HALLS OPEN CUT DRILLING

## ADAMSFIELD

Notes on Drilling

14.4.87

Wet, cold, squally weather.

Hole 87-05 Site 5

Site immediately below concrete pad. Casing placed to 7 metres - started hammering to 9 metres - no return - run more casing. Probably fill in old workings.

Low sample volume from about 43 m to E.O.H. Sample very clay rich - possibly represents fault zone - also inflow of small quantity of water.

-----

Hole 87-06

Site 6

14.4.87

Next site north from undercut concrete pad. Wet, cold day, some hail. Roller bit to 12 m. Case off. Drilled to 50 m.

Sites 1, 7 and 8 too boggy to get rig on site. Abandon attempt at all, hence move to site 9.

Site 9. Set up 13.8 m from interpreted lode position. Use -60° hole to N.E.

Hit jasper, talc horizon then Adamsfield Beds. Plot suggests that dip is around 83° - west. Therefore cannot drill remaining holes with current paid positions.

Moved to hole at base of Football Hill.

15.4.87

Set up on road to drill.

Hole ATP-18

Hole collared adjacent to new track. Hammer blocked at 6.0 m - pull string 3.30. Hammer cleared 3.35. Run more casing.

Lost circulation - air coming ATP-17 which is 12 m away. No casing left.

Rig down. Break for Easter.

-----



On site 3.15 pm.

23.4.87

Set up  $-90^\circ$  hole (ATP-19) for 50 m target depth.

Hammer, then roller bit to 3 m in hard sandstone. Set casing. Drilling at 4.05 pm. Very hard, but small cavities occur, i.e. rods drop (up to 300 mm). This leads to small sample volume. Stop at 5.40 pm due to lack of light.

24.4.876

Start drilling 8.45 am. Hard sst. Using foam to assist sample return. Still only around 30% normal sample volume.

9.30 am hammer wouldn't work - pull string.

Hammer piston and splined sleeve broken. Hammer unusable. No spare hammer.

Abandon hole at 37 m.

End of Program

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860206

17.

HALL'S OPEN CUT - ADAMSFIELD

DRILL HOLE DETAILS

Hole No.	Site No. *	Angle (Deg.)	Direction (Mag)	Final Depth (m)
RAB 87-01	3	-85	062	50
87-02	2	-84	060	30
87-03	2	-90	-	50
87-04	4	-90	-	50
87-05	5	-87	060	50
87-06	6	-87	060	50
87-97	9	-60	022	32
87-08	1	-87	060	50
87-09	8	-60	030	21
87-10	10	-90	-	12
87-11	10	-90	-	28
87-12	11	-60	042	39
TOTAL				462

ADAMSFIELD TRACK DRILLING

ATP 17	-90	- (Adj. to Bolton's track)	20
ATP 18	-90	- "	18.5
ATP 19	-90	- (Top of Football Hill)	37
TOTAL			75.5

\* Sites are numbered in numerical order starting at the southern end of Hall's Open Cut, then proceeding north.

APPENDIX 6

"A Preliminary Archaeological Survey of  
Proposed Mining Exploration Activities in the Vicinity of  
Adamsfield, South West Tasmania."

A report to Metals Exploration Ltd

by

G Brian Prince

March 1987

CONTENTS

- 1. Introduction
  - 1.1 Ethno-historic Accounts of Aboriginal occupation of the South West
  - 1.2 Archaeology of the South West
  - 1.3 Mining history of Adamsfield
  
- 2. The Survey
  
- 3. Results
  - 3.1 Aboriginal Sites
  - 3.2 Historic Sites and Features
  
- 4. Discussion and recommendations
  - 4.1 Aboriginal Sites
  - 4.2 Historical Archaeology
  - 4.3 Impact of Proposed Exploration Activities
  - 4.4 Recommendations
  
- 5. References
  
- 6. Appendices

## 1. INTRODUCTION

### 1.1 Ethno-Historical Accounts of Aboriginal Occupation of the South West.

The Adamsfield area, where this study was undertaken, lies approximately 3 kilometres east of Adams Bay on Lake Gordon in South-west Tasmania. (Map 1)

Ethno-historical accounts vary in their views of Aboriginal occupation of this region. G A Robinson travelled extensively throughout the island from 1829 - 1834 persuading surviving Aborigines to enter Government settlements. On one of these journeys he reported of his view inland from the Arthur Range that

"There was not the least sign of appearance of natives or of any white man ever being in this part of the country. The natives that accompanied me assured me that there was (sic) no natives ever went inland."

(Robinson, 1833, After Plomley, 1966)

Other accounts, however, indicate at least some Aboriginal presence in the South West in historical times. The account of James Goodwin, a convict who escaped with a companion from Macquarie Harbour in 1828 and travelled overland to the settled areas, records contact with Aborigines on at least two occasions.

Of one of these, in the Vale of Rasselas, on the Gordon River several kilometres upstream of the study area, Goodwin reports

"... We stopped there between 3 and 4 days, we caught some fish which weighed about four ounces each, they were like trout; we saw plenty of kangaroo upon the plain; and a great many natives..."

(Goodwin, 1832, After Binks, 1980)

Goodwin later became a member of the exploration parties of John Charles Darke that journeyed into the South West in 1833. During the first of these, Darke and his party also entered the Vale of Rasselas, at its Northern end, where he recorded that

"... The ground has been much burned by natives whose huts we observed. Kangaroos are plentiful..."

(Darke, 1833, After Gowland, 1976)

During his second journey, Darke traveled several miles further down the Vale of Rasselas, reporting that the party

"... met with several trees newly hacked and on searching we found a native hut, nearly new with a rug in it. This confirmed me in my own opinion that these plains are frequented by natives in the summer, and who, most probably, take up their quarters at Port Davey during the winter."

(Darke, 1833, After Gowland, 1976)

Several years later, and a considerable distance to the North West, in the Franklin region, James Calder, during his expedition of 1840, recorded the presence of two native huts.

"... of the Beehive form ... on the bark with which they are covered are some extraordinary charcoal drawings - one representing two men spearing an animal, which from its erect posture was meant for a kangaroo ... There was also the outline of a dog, and an emu, really not badly done ..."

(Calder, 1840, After Binks, 1980)

From these accounts, it seems possible that Aborigines made use, in historical times, of the area surveyed in the study, as it lies in close proximity to the Vale of Rasselas which is known to have had some Aboriginal occupation. The broad plains of the Gordon in this area would have provided a similar habitat to the Vale of Rasselas, and they would also seem to lie on a plausible migration route along the Gordon Valley.

As Binks (1980) suggests

"The natives who burned the Rasselas probably penetrated further West to the Wedge plains, and could well have established a route into the Serpentine Valley, as this region was relatively open when the first whiteman entered it."

(Binks, 1980)

There is, however, no direct ethno-historical evidence for Aboriginal utilisation of the study area in post-European times, and it is possible that the people reported in the South-West by these early explorers were retreating from the pressures of advancing European settlement and had not previously occupied the region.

## 1.2 Archaeology of the South-West

The archaeological resource of the region is largely unknown. There has been little archaeological research conducted in the area, and archaeological surveys have been limited.

NPWS/ANU expeditions to the Gordon/Franklin limestones, some distance to the North-West of the study area, in 1981/82 and 1982/83, resulted in the discovery of a number of cave sites, two of which are of confirmed Pleistocene age. One Pleistocene open site was also recorded on the Gordon River, whilst a small, more recent site (300+ 150 yr. BP) was discovered on the river bank at the confluence of the Gordon and Denison Rivers. (Kiernan et al, 1983; Blain et al, 1983; Jones et al, 1983)

Another Pleistocene site (20, 650 + 1970 yr. BP) has been recorded at Beginner's Luck Cave in the Florentine Valley by Murray et al (1980, after Kiernan et al, 1983) while Corbett (1980) has reported the fortuitous discovery of Aboriginal sites on the exposed hills of Queenstown during geological mapping activities.

Corbett considers these sites to also be of Pleistocene origin. Cosgrove & Hughes (1983) support this view, drawing mainly on the concept of advancing rainforests forcing the withdrawal of human occupation as argued by Bowdler (1983).

A survey of the Wedge forest by Prince (1984) recorded a number of Aboriginal sites in relatively close proximity to the present study area, although no temporal context for the Aboriginal occupation of the region could be determined. These sites were all artefact scatters or isolated artefact finds.

An expedition to the Maxwell River Valley in 1986 yielded further evidence of Aboriginal occupation of inland South West Tasmania.

A number of limestone cave occupation sites were discovered, including one containing a gallery of hand stencils. Test excavations were conducted in two locations, but the results of analysis are not yet available. The similarity of the deposit in one of these to that occurring in Kutikina and Deenarena cave, however, suggests that occupation of the Maxwell Cave sites may also date from the Pleistocene.

Confirmed datings of sites recorded in the interior of South West Tasmania have, therefore, almost all been of Pleistocene age, although the Denison River site of Jones et al (1982) indicates at least brief excursions into the region by Aborigines in historical times.

Kiernan et al (1983) have argued that the Aborigines were able to make more extensive use of the region during the Pleistocene due

to the absence of dense forests, which were then confined to low coastal areas. The amelioration of the climate at the end of the Pleistocene led to the rainforests advancing from their glacial refugia, rendering much of the South West unsuitable for human exploitation. This view of rainforests as "colonisers" is also argued by Bowdler (1983).

According to Kiernan et al (1983) the area under study in this survey was, in Pleistocene times, open alpine herbfield country similar to that exploited by the occupants of Kutikina Cave on the Franklin River. This cave was occupied from about 20,000 yr. BP to about 15,000 yr. BP.

It is feasible that Aboriginal sites of Pleistocene age might be expected to occur within the study area, if it can be assumed that sites discovered elsewhere are merely isolated examples, revealed by circumstances, of a more general Aboriginal occupation of the South West during Pleistocene times.

### 1.3 Mining History of Adamsfield

Adamsfield was the largest and most relatively stable mining settlement in South West Tasmania. (King and Fenton, 1978; Gee & Waterman, 1981)

Osmiridium was first discovered in the area in 1909 by the government geologist W H Twelvetrees. Macintosh Reid, another government geologist, examined the Clear Hills area in 1920, and confirmed the presence of Osmiridium.

In 1924, Stacey, Stacey, Boden and Wright prospected the Adam's River Valley and the Western slopes of the Sawback Range and were subsequently granted reward claims in 1925.

Osmiridium at that time was valued at £ 25-30 per ounce, or 5 times the price of gold, and the new field attracted many miners.

Access was extremely difficult, people travelling to the settlement via train to Fitzgerald, some 80 kilometres West of Hobart, and then walking to Adamsfield on a track over the Thumbs.

The track was extremely muddy and packhorses were initially only able to proceed as far as the Florentine River, due to the lack of a bridge. Some hardy individuals operated as 'packmen', carrying loads into the new mining community on their backs, for a fee of 1 shilling per pound. (Gowland & Gowland, 1976).

By December 1925, plans for a railway to the town had been rejected, but the government had spent £5000 upgrading the track, which was re-corded most of the distance to the Florentine River.

The River was bridged and a new track made from there to Adamsfield. In 1928 this track was "still in excellent order, and likely to remain so for some considerable time. (Nye, 1929).

At its peak, the population of Adamsfield was around 2000, and the production of osmiridium was valued at around £3000 - £5000 per week, Tasmania at that time producing virtually the only pen-nib osmiridium in the world (Nye, 1929). In December 1925, 2258 ounces of osmiridium worth £68,757 were produced.

The mining methods were simple and inexpensive, involving panning, cradling, sluicing or puddling of the deposit, and consequently many individuals took to the field, where claims were commonly worked by one or two men. The availability of water was a critical factor and many miners built small dams on their workings. The insubstantial nature of the construction of many of these was seen as safety risk by the Mines Department, and regulations were introduced to limit their capacity. (Gowland and Gowland, 1976)

A 5/- fee entitled a miner to claim and work half an acre, with the right to build a dwelling on an additional half acre. Whilst most of the town's occupants lived in tents, many timber buildings were erected, and the remains of some of these survive to the present time. Adamsfield had a hospital, school, post office, police station, bakery and hall, as well as butchers, general stores and a 'sly grog' shop. (King and Fenton, 1978)

An interesting personal account of life in the township, both as a miner and later as founder of the Pioneer store, is given by Lane.

The harsh winter of 1926 appears to have discouraged many of the town's inhabitants, and by the end of that year, two thirds of the population had departed. (Gowland and Gowland, 1976).

Numbers dropped to around 100 in 1927, and by 1928 most of the easily worked claims were exhausted. A rise in the price of osmiridium in that year however, resulted in the population increasing to about 200. The town had stabilised and an osmiridium producers association had been formed for the marketing of the metal.

Nyes' report of 1929 suggested that the field was nearing exhaustion, depending on the price of osmiridium and the methods of extraction. He suggested that, with larger supplies of water, the ground on and around Football Hill could be effectively

198

exploited, and that the deep ground of Adam River, between Football Hill and Adams Falls, should be prospected.

Nye's field work was carried out between October and December 1925, and apparently following his report, the 'Lode Company' was formed in 1928 to mine on a larger scale. Two dams were constructed on Hopper Creek, and a flume built to transport the water to the Lode workings.

The 'Lode Company' was not successful in extracting sufficient osmiridium to remain viable, and in addition to financial difficulties, collapse of the shoring timbers in the mine occurred, and the company ceased operations.

More recently, some mechanical excavations were undertaken in the area at Halls' open cut, apparently with little success.

The Second World War brought the final decline of Adamsfield, and eventually only one resident, Stan Gerny, 'the Count' of Adamsfield, remained until his death at New Norfolk Hospital.

## 2. THE SURVEY

The proposed access track for bulk sampling, on the Western flanks of Football Hill was examined on foot, visually searching for archaeological features.

The proposed drill line, in the vicinity of Hall's open cut, was also examined

Brian Johnstone<sup>1)</sup>, representing Metals Exploration Ltd, and Darryl West, from the Tasmanian Aboriginal centre assisted with the survey.

200

### 3. RESULTS

#### 3.1 Aboriginal Sites

A single aboriginal site comprising 2 quartzite flakes was located on a track North of and parallel to the Adamsfield track, (see Map 1). This site is described in detail in the N.P.W.S. recording form (attached).

#### 3.2 Historic sites and Features

The Western flanks of Football Hill and the adjacent alluvial flats contain large numbers of historical archaeological features.

The majority of these are landscape modifications associated with surface mining operations such as trenches, ditches, ponds, and water races. A number of associated artefacts were observed, including pickheads, bottles, sections of riveted pipe or ducting, and items of machinery, (see Plates).

The precise location of these is very difficult to record owing to the dense vegetation, and accurate survey would be extremely time consuming.

As this survey was designed only to determine the impact of Metal Explorations' proposed exploration works on the archaeological resource, detailed recording was not undertaken.

It should be noted, however, that the area contains extensive archaeological evidence of historical mining activities. Of particular interest are the remains of mining occurring North of the Adamsfield track, as no documentary evidence for this was located.

At the Hall's open cut area, there is substantial physical evidence of both early manual and later mechanical mining activities. In the line of proposed drilling, a historical mining adit runs North from the vicinity of the cut.

Timber shoring and bracing still exist in sections. Historical structures of this type appear relatively rare in the area.

#### 4. DISCUSSION AND RECOMMENDATIONS

##### 4.1 Aboriginal Sites

The results of the survey indicate that the study area was occupied in the past by the Tasmanian Aboriginal people, but the spatial distribution and temporal context of this occupation have been determined.

However, the stratigraphic position of the Aboriginal artefacts located suggests a (geologically) recent date for their deposition, as they lie in soil which has been recently deposited over Pleistocene alluvial gravels. (Nye, 1929)

The recorded site appears typical of the small artefact scatters and isolated artefact finds which are the most common site type found in inland Tasmania, and its location at the margin of button grass plain and forest is also typical of the Western region. (Cosgrove, pers. comm.)

The quartzite material appears similar to that occurring on a number of sites recorded in the nearby Wedge Forest Block (Prince, 1984) and may derive from the same source.

The problems of poor archaeological visibility generally encountered in South West Tasmania, due to dense vegetation, (Kiernan et al, 1983; Cosgrove and Hughes, 1983; Prince, 1984) certainly occur in the study area, and there is, therefore, some difficulty in relating site recovery during survey to actual site distribution.

The location of Aboriginal artefacts on the only area of good visibility examined suggests that other sites probably occur within the study area, but could not be located.

The sandstone of Football does not appear to be of a type that gives rise to the formation of rock shelters, and none were recorded in the study area.

It is likely, therefore, that any unrecorded Aboriginal sites in the study area can be expected to be similar to the single site that was recorded.

##### 4.2 Historical Archaeology

A similar but less extreme situation exists with historical features in the area. Although a large number of landscape modification features and several artefacts were located during

the survey, these almost certainly only represent a proportion of those actually occurring in the area.

While the historic mining features located during the survey are not particularly spectacular, they are important (and in some cases the only) evidence of the nature and location of the mining activities in the area during the occupation of Adamsfield.

The town and its environs have particular significance as the only Osmiridium mining field in the state (and rare on a world scale) and as the largest historical mining community in the South West.

Further, Adamsfield and the activities of its residents appear to have considerable social significance to the Tasmanian community, as evidenced by the many newspaper articles and popular accounts of the history of the area which have been published in the state. (See appendix 2). The remains of the town continue to draw visitors interested in the early history of the area.

#### 4.3 Impact of proposed exploration activities

In order to conserve the archaeological resource in the study area, and Tasmania in general, it is necessary to seek ways in which to mitigate against the destruction of sites by development activities.

Mitigation consists of one or more of the following procedures.

1. AVOIDANCE of the destruction or disturbance of cultural resources.
2. Active measures for resource PRESERVATION or minimisation of effect.
3. INVESTIGATION or the conservation of information through adequate study of the resources before they are destroyed.

(McGimsy and Davis, 1977)

The impact of the exploration activities proposed by Metals Exploration on the archaeological resource of the area will be limited, and will arise principally from the access track for bulk alluvials ampling, to be constructed along the Western flanks of Football Hill (See Map 1) and the proposed line of exploration drilling North of Hall's open cut.

According to the company's representative, the spur access from the proposed track to the sampling site will involve driving a

tracked excavator to those sites without construction of a track, and therefore with little disturbance to the vegetation or soil.

The sample sites themselves are located on the margin of alluvial plain, much of which appears to have been extensively worked and redeposited by past mining activities.

Provided reasonable care is taken to avoid major features and visible artefacts during sampling, then this part of the proposed operations should have no significant impact on the archaeological resource.

The majority of archaeological features observed along the line of the proposed access track run across the contours of Football Hill and will be intersected by the track approximately at right angles.

There will, therefore, be major sections of most such features left undisturbed. It would be desirable, however, for archaeological features disturbed by the access track to be recorded during or soon after track construction.

In the proposed drill line near Halls' open cut, it is understood that the existing historical structures can be avoided during exploration operations, and that access will be largely from existing track. If shoring timbers and other archaeological features are not disturbed by these activities, then the impact on the archaeological resource should not be significant.

It is therefore recommended that -

#### 4.4 Recommendations

1. Metal Explorations Ltd or its representatives exercise care to avoid visible historical mining features and artefacts during their exploration activities. Any artefacts disturbed by the activities of the company should be relocated to the nearest undisturbed ground, the location and original position noted and this information made available to the N.P.W.S. archaeology section.
2. Disturbance to any structural remains of early mining activities, such as the timber shoring North of Hall's open cut, should be avoided by the proposed exploration works. It is understood from the company representative that this will not cause any impediment to the exploration programme.
3. The company give consideration to the employment of a contract archaeologist to locate and record those

archaeological features disturbed by the access track construction. The most cost effective method would be to survey along the track as soon as practicable after its construction. A period of 2 to 3 days in the field would probably be sufficient time for this task.

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## 6.2 APPENDIX 2

Chronological List of Newspaper and Magazine articles about Adamsfield.

## ADAMSFIELD

1. Frank, H: Ghost town - S.E.M. 08/12/56 page 3
2. Church, K: Adamsfield was scene of last mining rush in Tasmania. Examiner 11/01/58 page 13
3. Death of a mining town. Walkabout June 1962 pages 26-27
4. Lilo on the Gordon. Tas. Tramp. January 1966 page 34
5. Adamsfield as history. S.E.M. 19/04/75 page 20
6. Peregrine. Mercury 05/06/76 page 7
7. Packing feat was no fable (Arthur Fleming) Mercury 26/06/76 page 6
8. Back to Adamsfield. Mercury 29/09/78 page 5
9. Mining Adamsfield? Tas. Conservationist. March 1983 page 20
10. Adamsfield, a place on the map of history (illus.) Sunday Tasmanian 03/02/85 page 20
11. Once past the mine, follow the trail of Ernie's travels. Sunday Tasmanian 10/02/85 page 20



# ABORIGINAL SITE-RECORDING FORM

Archaeology Section, National Parks and Wildlife Service  
Magnet Court, Sandy Bay or P.O. Box 210 Sandy Bay 7005

860225

1. TASMANIAN ABORIGINAL SITE NO: 

--	--	--	--	--

2. FIELD SITE NO: 

F	H	1
---	---	---

3. SURNAME OF SITE RECORDER: 

PRINCE				
--------	--	--	--	--

4. SITE NAME: 

FOOTBALL HILL 1				
-----------------	--	--	--	--

5. PROJECT SURVEY: 

METALS EXPLORATION SAMPLING TRACK				
-----------------------------------	--	--	--	--

For: 

METALS EXPLORATION				
--------------------	--	--	--	--

 Date: 

17	03	87
----	----	----

6. LOCATION:

1:100,000 Map No: 

8	1	1	2
---	---	---	---

 Grid Reference: 

4	4	8	6	9	9
---	---	---	---	---	---

1: 25,000 Map No: 

--	--	--	--

 Grid Ref.: 

--	--	--	--	--	--

Other Map Scale: 1: 

--	--	--	--

 No: 

--	--	--	--

 Grid Ref.: 

--	--	--	--	--	--

7. AIRPHOTO:

Film No: \_\_\_\_\_ Run: \_\_\_\_\_ Frame: \_\_\_\_\_ Date: 

--	--	--	--

 Pinned: \_\_\_\_\_

8. SITE TYPE: 

04					
----	--	--	--	--	--

01. Shell Midden                      05. Artefact Scatter                      09. Rock Engraving  
02. Rockshelter/cave, occupied    06. Quarry - Stone                      10. Rock painting  
03. Rockshelter/cave, unoccupied   07. Quarry - Ochre                      11. Skeletal Material/Burial  
04. Isolated Artefact Find           08. Stone Arrangement                12. Modified Tree  
13. Not a Site - Reason: \_\_\_\_\_

9. LAND STATUS: 

07
----

01. Privately Owned (Freehold)                      05. State Forest  
02. Vacant Crown Land                              06. Leased Crown Land  
03. Reserve    07. Other: *CONSERVATION AREA*  
04. National Park/State Reserve

10. OWNER/OCCUPIER and FULL ADDRESS:

	Phone No: 00
--	--------------

OFFICE USE ONLY

Master File

Inspected

Data Completed

# SITE ENVIRONMENT

## 1. REGIONAL LANDFORM PATTERN

02

If 6 or 7 →

A

B

- 01. Lowland Plain < 800m
- 02. Upland Plain > 800m
- 03. Lowland Slope < 800m
- 04. Upland Slope > 800m
- 05. Alpine Plateau or Mtn. > 1200m

- 06. Off shore Island
- 07. Coastal Margin
  - A1. High Energy
  - A2. Medium Energy
  - A3. Low Energy
- B1. Hard Shore
- B2. Mixed Shore
- B3. Soft Shore

## 2. LANDFORM ELEMENT - MORPHOLOGICAL TYPE

06

If 02-05 →

A

- 01. Crest
- 02. Upper Slope
  - A1. Waxing
  - A2. Waning
  - A3. Minimal
  - A4. Maximal
- 03. Mid Slope
- 04. Lower Slope
- 05. Simple Slope
- 06. Flat
- 07. Open Depression
- 08. Closed Depression
- 09. Hillock
- 10. Ridge

Dimensions (lxbxh): \_\_\_\_\_ X \_\_\_\_\_ X \_\_\_\_\_ m.

## 3. GEOMORPHOLOGICAL TYPE

07

- 01. Tidal Flat
- 02. Coastal Dune
- 03. Inland Dune
- 04. Sandsheet
- 05. Lunette
- 06. Bank
- 07. Alluvial/Flood Plain
- 08. Alluvial Terrace
- 09. Karst
- 10. Moraine
- 11. Scree
- 12. Other: \_\_\_\_\_

## 4. FRESHWATER AQUATIC

04

- 01. Lake
- 02. Tarn
- 03. River
- 04. Creek
- 05. Lagoon
- 06. Swamp/Marsh
- 07. Estuary
- 08. Other: \_\_\_\_\_

## 5. DISTANCE TO POTABLE WATER

03

- 01. 01 - 10 m
- 02. 11 - 50 m
- 03. 51 - 100 m
- 04. 101 - 200 m
- 05. 201 - 500 m
- 06. 501 - 1000 m
- 07. 1001 - 2000 m
- 08. Over 2000 m

## 6. ASPECT

05

(w)

- 01. N Aspect (315°-360°-045°)
- 02. E Aspect (045°-090°-135°)
- 03. S Aspect (135°-180°-225°)
- 04. W Aspect (225°-270°-315°)
- 05. Open Aspect
  - Exact Aspect: 290°

## 7. SLOPE CATEGORY

02

- 01. < 0.5° Level
- 02. 0.5° - 1.5° Very Gently Inclined
- 03. 1.5° - 5.5° Gently Inclined
- 04. 5.5° - 18° Moderately Inclined
- 05. 18° - 30° Steep
- 06. 30° - 45° Very Steep
- 07. 45° - 72° Precipitous
- 08. > 72° Clified

## 8. GEOLOGY

10

- 01. Not identified
- 02. Granite
- 03. Gneiss
- 04. Basalt
- 05. Sandstone
- 06. Mudstone/Siltstone
- 07. Limestone
- 08. Gneiss or Schist
- 09. Quartzite
- 10. Alluvium
- 11. Other: \_\_\_\_\_

21 SOIL

08 over 04

860227

346

- 01. Not identified
- 02. Sands with stone or gravel conspicuous
- 03. Sands with stone or gravel not conspicuous
- 04. Loams with stone or gravel conspicuous
- 05. Loams with stone or gravel conspicuous

- 06. Clays with sand or gravel conspicuous
- 07. Clays with sand or gravel conspicuous
- 08. Peat
- 09. Bedrock or shallow soils on rock

### 10. VEGETATION

PLEASE NOTE (IF APPLICABLE)

- 1. Other species: O, Δ, X or □ (e.g. O = STRIBER)
- 2. Surrounding vegetation (SV) if different
- 3. Past logging (L) or fire (F)
- 4. Animals or nests on plot

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

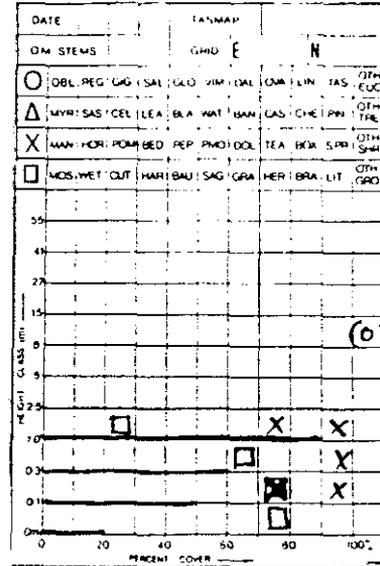
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

OBSERVER



### 11. CONDITION OF VEGETATION

- 01. Burnt - Date
- 02. Unburnt
- 03. Pasture

- 
- 04. Selectively Logged
- 05. Clearfelled
- 06. Other: \_\_\_\_\_

### 12. DISTURBANCE OF SITE

- 01. 0%
- 02. 5%
- 03. 25%
- 04. 50%

- 
- 05. 75%
- 06. 100%

### 13. AGENT CAUSING DISTURBANCE

- 01. Human: \_\_\_\_\_
- 02. Animal: \_\_\_\_\_
- 03. Wind
- 04. Water

- TRACK (VEHICULAR)
- 05. Ice
- 06. Other: \_\_\_\_\_

### 14. ARCHAEOLOGICAL VISIBILITY

- 01. 0%
- 02. 5%
- 03. 25%
- 04. 50%

- AT SITE
- GENERALLY
- 05. 75%
- 06. 100%

### 15. ALTITUDE: m

### 16. SITE DIMENSIONS (m)

- N-S:
- E-W:
- NW-SE:
- NE-SW:

### 17. SURFACE AREA OF SITE

- 01. 1 m<sup>2</sup>
- 02. 1 - 10 m<sup>2</sup>
- 03. 11 - 100 m<sup>2</sup>
- 04. 101 - 500 m<sup>2</sup>
- 05. 501 - 1000 m<sup>2</sup>
- 06. 1001 - 5000 m<sup>2</sup>
- 07. 5001 - 10000 m<sup>2</sup>
- 08. 10001 - 50000 m<sup>2</sup>
- 09. Over 50,000 m<sup>2</sup>

# STONE ARTEFACT ANALYSIS

AREA EXAMINED

60       m<sup>2</sup>

Total Centre NE NW SE SW

ARTEFACT DENSITY

Max  m<sup>2</sup> Min  m<sup>2</sup> Ave  m<sup>2</sup>

COMMENTS:

*Only 2 visible artefacts, about 25m apart, on the edge of the track, probably east end of peaty layer.*

RAW MATERIALS NO:

1. C-H 2. Oite 3. Silc. 4. Volc. 5. Spon. 6. Qtz. 7. Chal. 8. Other

NO. OF CORES

P MP D

FLAKE SCAR LENGTH

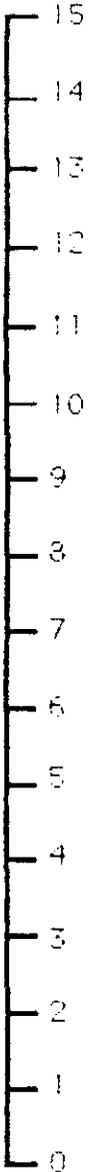
cm  
Max Min

NO. OF FLAKES

FLAKE LENGTH

cm  
Max Min

Centimetres



LENGTH	FLAKES	CORES
< 1 cm	x	
1 - 1.9 cm		
2 - 2.9 cm		
3 - 3.9 cm		
4 - 4.9 cm	1 (4.0 x 3.7)	
5 - 5.9 cm	1 (5.2 x 3.8)	
6 - 8.9 cm		
9 - 11.9 cm		
12 - 15 cm		
> 15 cm		

NO. OF RETOUCHE FLAKES

NO. WITH PREPARATION

FLAKE ELONGATION (NO.)

W/L L/W Elong. (2:1)

IMPLEMENT NO.

NO. OF FLAKES WITH CORTEX

NO. OF FLAKED PIECES

NO. OF PEBBLE MANUPOINTS

NO. OF COBBLE MANUPOINTS

TYPE	L	W	B	Wt (gm)	Munsell	RAW MATERIAL

212  
HIDDEN DESCRIPTION (cont.)

8. SURFACE EROSIONAL FORM OF PLATFORM

- 01. Smoothly Eroded
- 02. Jointed, Cracked, Etched, Honeycombed, Etc.
- 03. Level; Differentially Eroded to Discrete Surfaces
- 04. Beach; No Rock Platforms Near by
- 05. Pebbles
- 06. Not Applicable

9. DISTANCE TO NEAREST ROCK PLATFORM OR REEF AREA FROM SITE

- 01. 1 - 20m
- 02. 21 - 50m
- 03. 51 - 100m
- 04. 101 - 200m
- 05. 201 - 500m
- 06. 501 - 1000m
- 07. 1001 - 2000m
- 08. Over 2,000m: \_\_\_\_\_ m

10. DISTANCE TO OCEAN FROM SITE

- 01. 1 - 20m
- 02. 21 - 50m
- 03. 51 - 100m
- 04. 101 - 200m
- 05. 201 - 500m
- 06. 501 - 1000m
- 07. 1001 - 2000m
- 08. Over 2,000m: \_\_\_\_\_ m

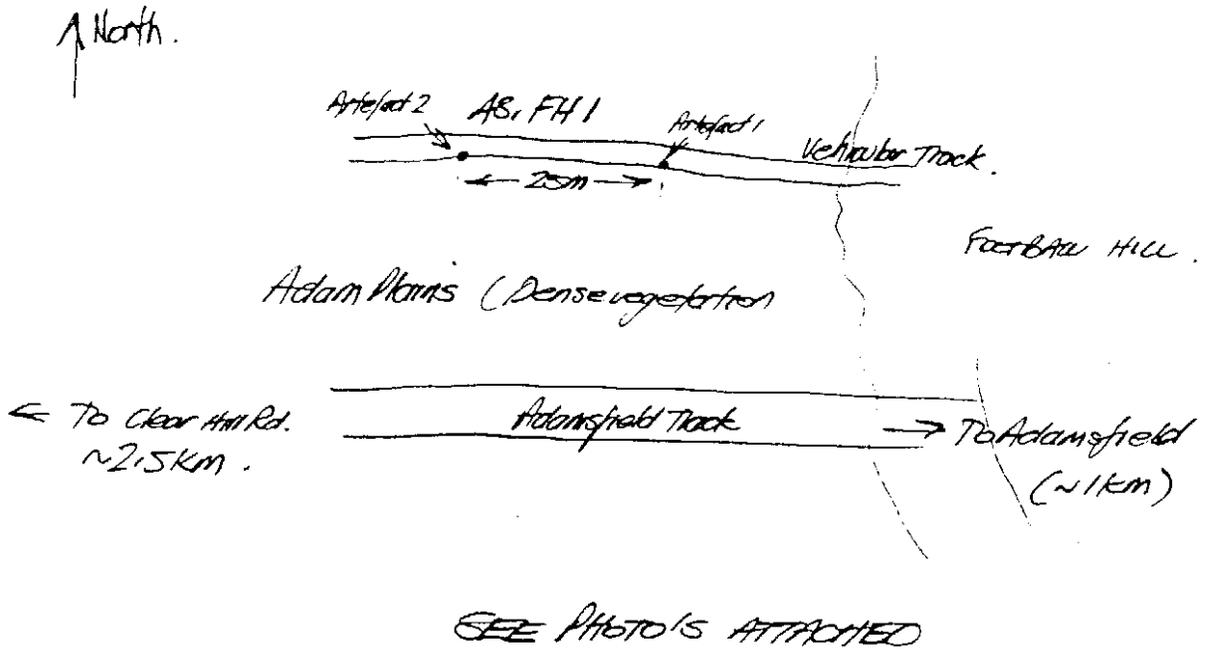
11. COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SITE DESCRIPTION: 2 quartzite flakes exposed on the south side  
of a track, parallel and near the Artansheld track on  
the north side. The artefacts were exposed on top of  
geologically recent alluvials, where the peat overburden (~100m)  
has been washed away. They may have been eroded out of  
the peaty topsoil. This track was the only  
exposed area in very dense vegetation and was followed up onto  
Football Hill a some distance west, but no further artefacts were  
located. This occurs at the boundary between the Astor Plain and  
the western slopes of Football Hill.

GENERAL REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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SKETCH MAP (to locate the site, indicating distances between 2 points. A horizon copy or trace map may be attached.)



SITE PLAN (Give distance between two points & extent of site in metres.)



SITE EXTENT: \_\_\_\_\_ m x \_\_\_\_\_ m



Plate 1 : Hall's Open Cut, View approximately NW.

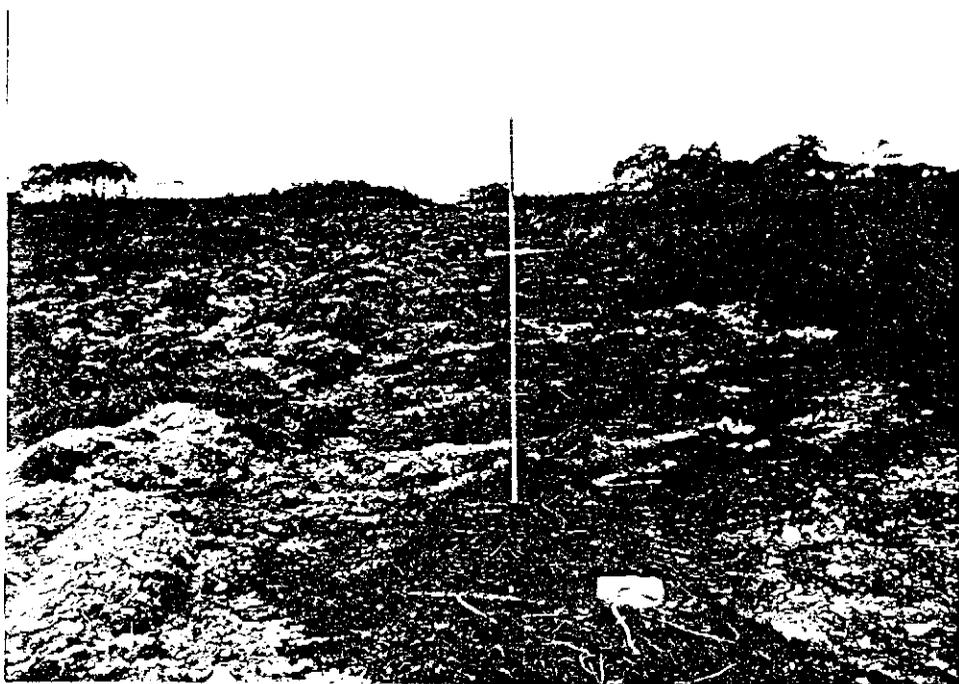


Plate 2 : "Rehabilitated" Metals Exploration costean.  
This work appears to have destroyed a section  
of the old corded Adamsfield track. Rehabilitation  
of this sort has, of course, no mitigating affect  
on the disturbance of the archaeological resource.



Plates 3 & 4 : Timber structural remains; old mine workings  
north of Hall's Open Cut. These and any similar remains  
should not be disturbed by mineral exploration activities.





Plate 5 : Cut timber, SW margin Hall's Open Cut.



Plate 6 : Remains of old Stamper Battery, SW margin Hall's Open Cut.

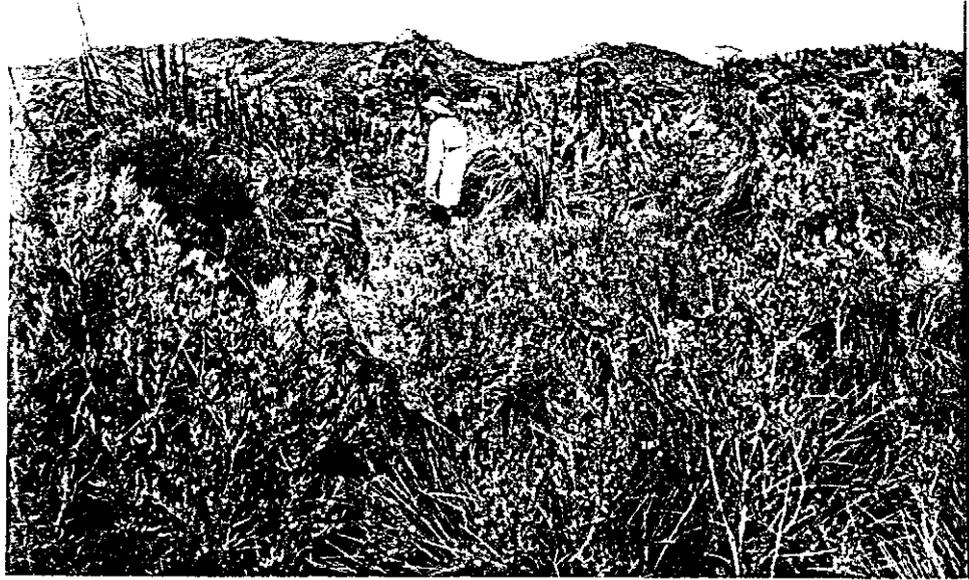


Plate 7 : Typical vegetation, Adam Plains. Note the extreme lack of archaeological visibility.

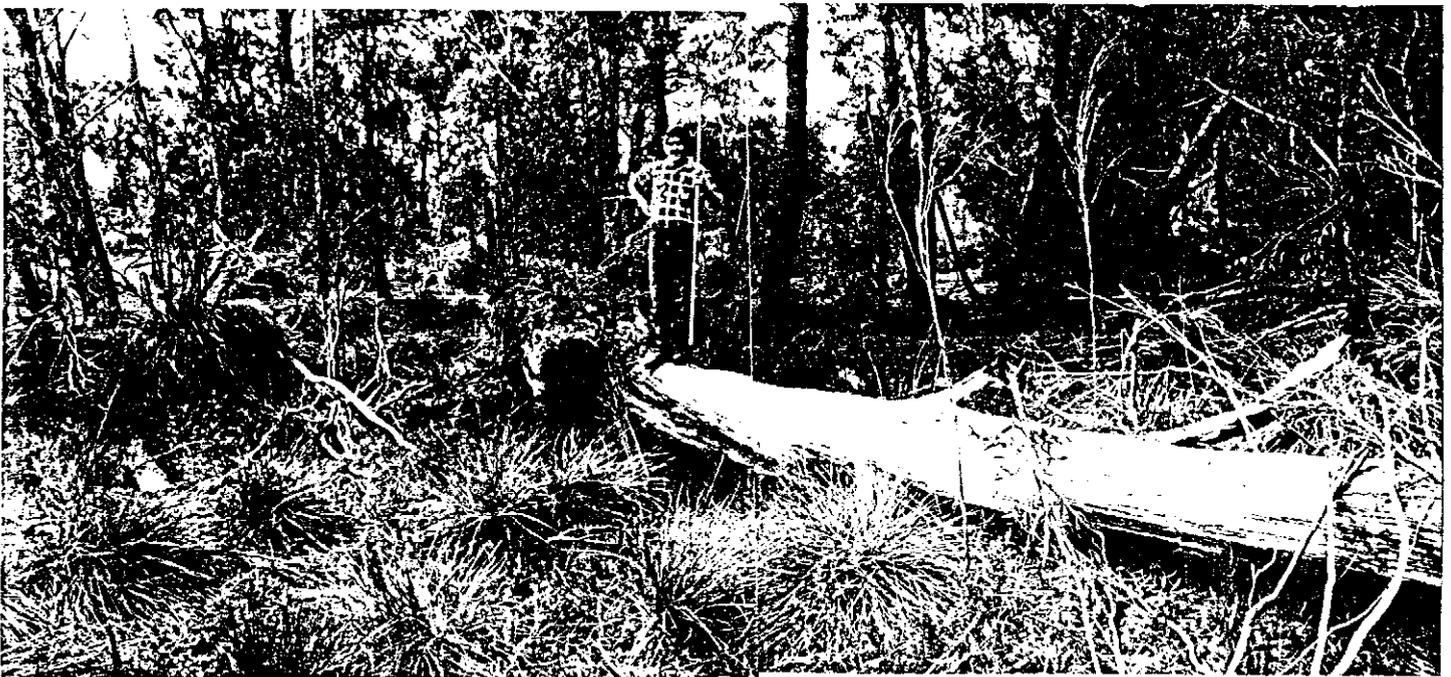


Plate 8 ; Remnant pond from early alluvial mining activities, Adam Plain, south of Adamsfield track, adjacent to Football Hill.

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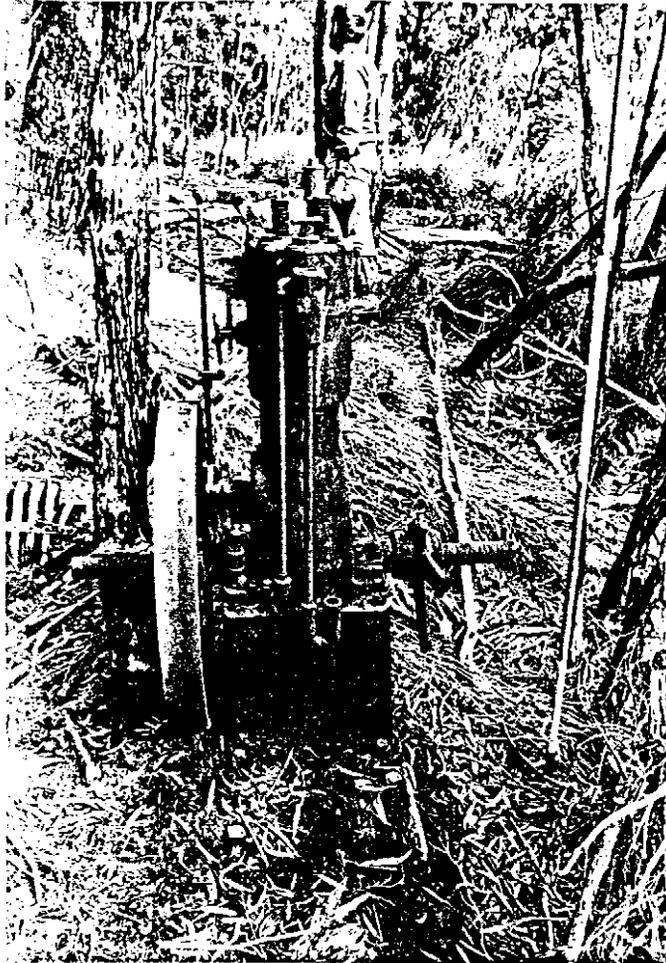


Plate 9 ; Engine located on the eastern margin of the Adam Plain, south of the Adamsfield track.

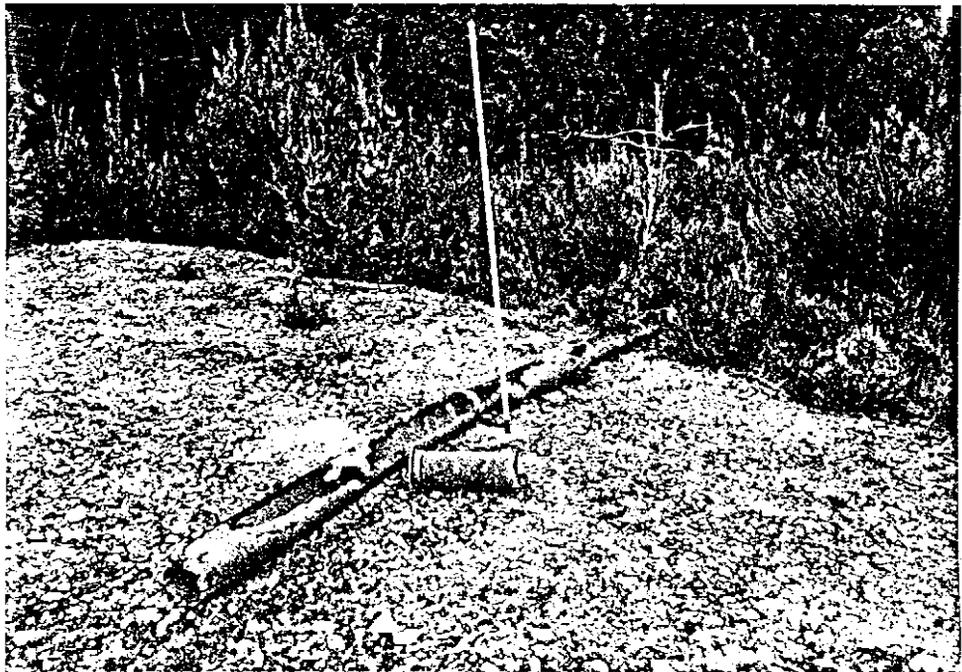


Plate 10 ; Redepleted alluvials and iron ducting or pipe, eastern margin of Adam Plain, south of the Adamsfield track.



Plate 11 ; Water race, western slopes  
of Football Hill, south of  
Adamsfield track.

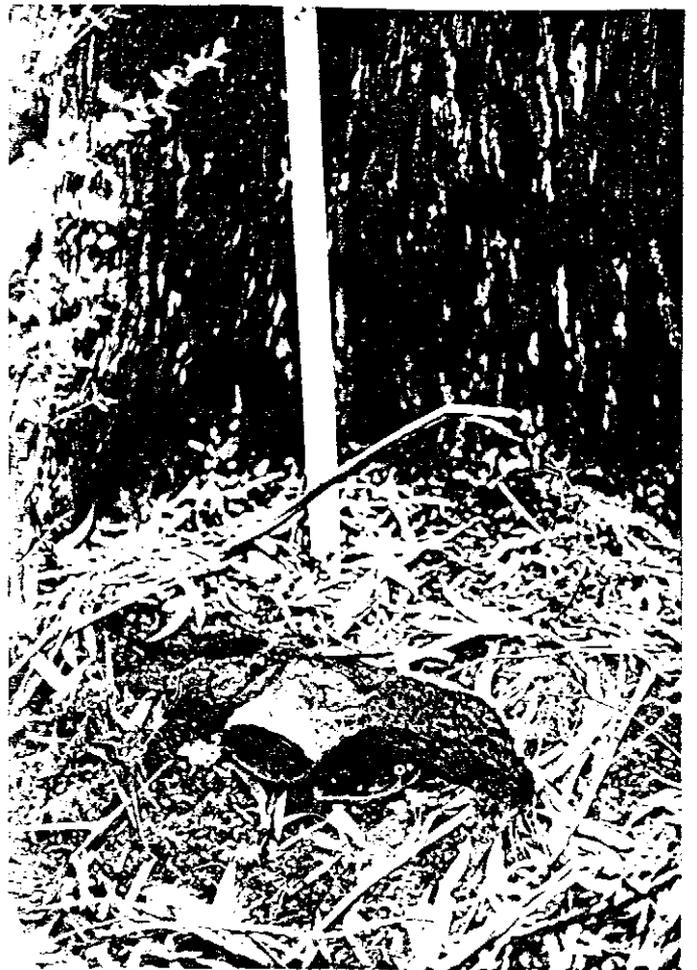


Plate 12 ; Mattock head, western  
slopes Football Hill,  
south of Adamsfield  
track.



Plate 13 : Early alluvial workings, Adam Plain, north of Adamsfield track, just west of Football Hill.

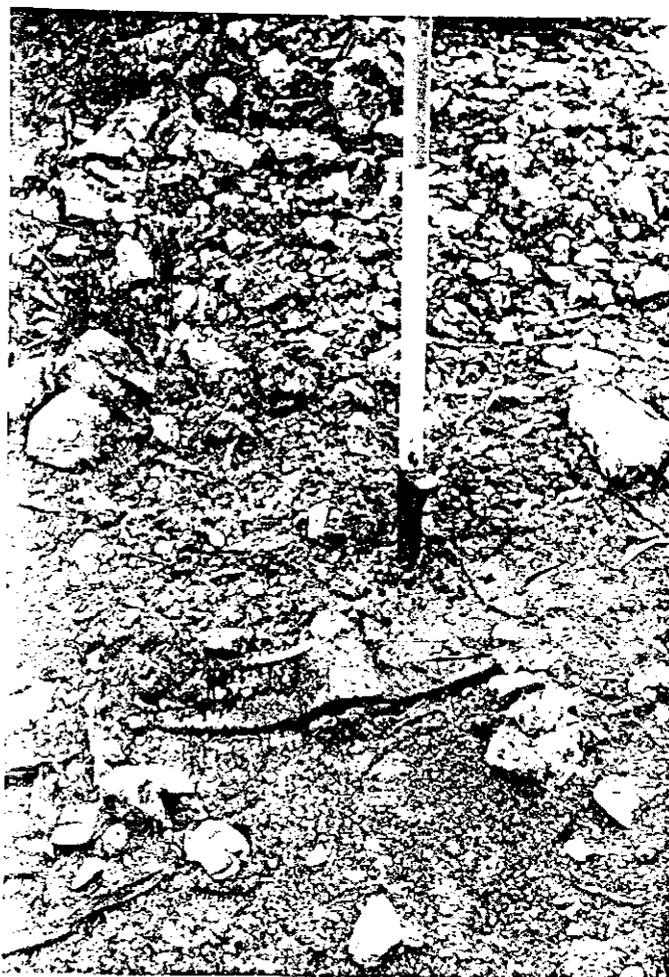


Plate 14 : Pickhead in the same area.

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Plate 15 ; Location of Aboriginal Site, FH 1.



Plate 16 ; Quartzite flake, FH 1.



Plate 17 ; Typical vegetation, western slopes Football Hill, north of Adamsfield track.

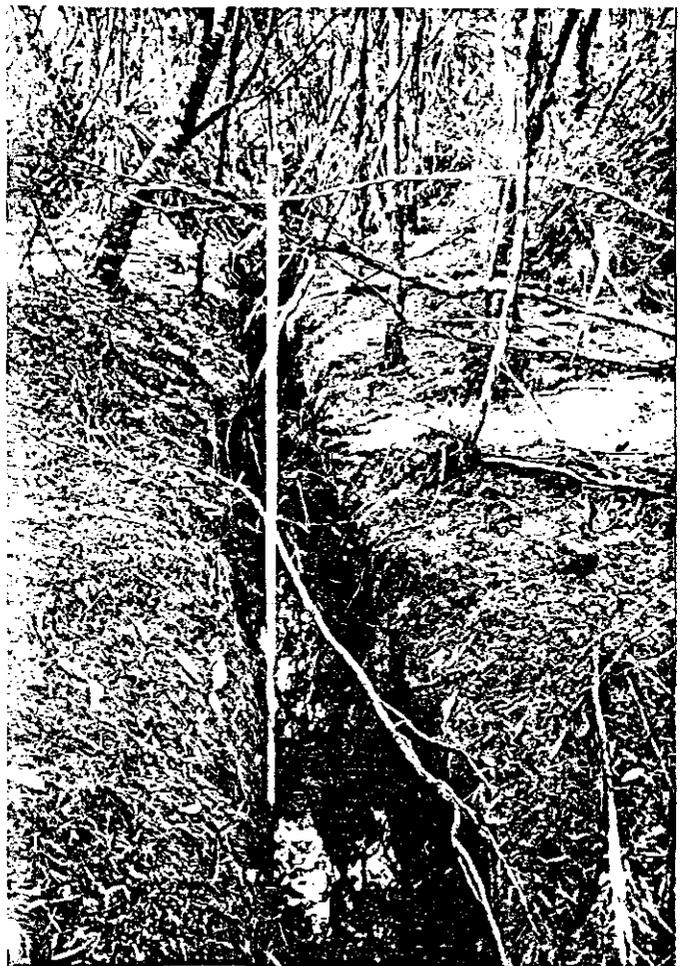


Plate 18 ; Ditch work, associated with early mining activity eastern margin Adam Plain north of Adamsfield track. Typical of landscape modifications in the area.

APPENDIX 7

860241

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MINPET REPORT 22/27

May 1937

MINERAGRAPHIC AND PETROGRAPHIC REPORT  
ON ALTERED ULTRAMAFIC ROCKS, SAMPLES  
259744, 259745 AND 259747 FROM TASMANIA

(prepared for Mr. T. Summons of Metals  
Exploration Ltd., Melbourne)

MINPET SERVICES  
659 BOTANY ROAD,  
ROSEBERY, N.S.W.

REPORT NO. 22 / 87

PETROGRAPHIC AND MINERAGRAPHIC  
EXAMINATION OF ULTRABASIC ROCK  
SAMPLES, NUMBERED 259744, 259745  
AND 259747.

( Prepared for Mr. T. Summons of  
Metals Exploration Ltd., Melbourne. )

May, 1987.

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MINPET SERVICES  
659 BOTANY ROAD,  
ROSEBERY, N.S.W.

REPORT NO. 22 / 87

PETROGRAPHIC AND MINERAGRAPHIC  
EXAMINATION OF ULTRABASIC ROCK  
SAMPLES, NUMBERED 259744, 259745  
AND 259747.

( Prepared for Mr. T. Summons of  
Metals Exploration Ltd., Melbourne. )

May, 1987.

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	<u>PAGE NO.</u>
1. INTRODUCTION	1
2. SUMMARY	2
3. PETROGRAPHIC AND MINERAGRAPHIC DESCRIPTIONS	3

## Appendix:

Order No. 19041, dated 16th April, 1987.  
from Metals Exploration Ltd.

INTRODUCTION

Three specimens numbered 259744, 259745 and 259747 of dunite, variably serpentinised, feldspathised and sheared were submitted primarily for determination of platinoid type minerals and sulphides present.

SUMMARY NOTES

- 259744 Medium grained dunite. More than half the olivine present is serpentinised. There is a moderate chromite presence.
- 259745 Coarse grained dunite. More than two thirds of olivine present is altered to serpentine. Antigorite veins contain pyrite that show included traces of heazlewoodite.
- 259747 Antigorite:talc schist with brecciated chromite.  
A strongly sheared ultrabasic rock. Contains abundant carbonate and traces of brucite and pyrite.

No platinoid minerals were identifiable in polished sections.

PETROGRAPHIC DESCRIPTIONS

259744 / MPS 4539

## Petrographic summary:

Serpentinised medium grained dunite, showing serpentinisation to antigorite of more than half the olivine present. Some weathering oxidation has resulted in the distribution of scattered flecks of limonite throughout the serpentine mineral.

## Mineralogy: V %

Olivine	26
Antigorite	63
Chromite	4
Limonite	5
Magnetite	2

## Texture:

A fairly uniformly textured and largely serpentinised dunite. Olivine grains ( 0.08 to 1.2mm ) are subhedral varying to anhedral relict crystals, often clustered and are separated by a variable density of mesh style fibrolamellae of green antigorite. The antigorite shows abundant cross-cutting and enveloping veinlets 0.06mm to 1.16mm wide, commonly as vein aggregates of completely replaced olivine ( to 0.6 x 0.4mm ). Flecks of iron oxides remain within the antigorite replacement associated with scattered varying to grouped, subrounded magnetite grains.

Chromite as subhedral, translucent brown grains are fairly evenly distributed and vary in size, 0.08 to 0.3mm. The chromite grains are flanked by antigorite veins.

## Alteration:

Strong serpentinisation of a medium grained dunite intrusive.

## Metamorphism:

Mild brecciation of relict primary minerals was caused by stress during serpentinisation.

259745 / MPS 4540

Petrographic summary:

A serpentinised dunite.

Coarse olivine grains show many fractures filled with antigorite; also antigorite forms networks between olivine to broader dilating veins that contain anhedral pyrite grains which are themselves veined by goethite and a pinkish grey mineral as specks and minute veins, optically identifiable as heazlewoodite.

Mineralogy: V %

Olivine	30
Antigorite	62
Magnetite	3
Goethite	2
Pyrite	3
Heazlewoodite	trace
( Ni <sub>3</sub> S <sub>2</sub> )	

Texture:

Similar to that of specimen 259744 but less even; much more patchy fibrous antigorite is present filling spaces ( maxm. 2.0mm ) adjoining coarse olivine and similarly sized pyrite.

Subhedral olivine grains have a median size of 2 x 1.5mm. but with a maximum grain size of 6 x 4mm. They show no preferential orientation and contain a cross-cutting close-mesh structure of green, fine fibrolamellar antigorite. Between the larger subdivided olivine crystals are smaller crystals ( 0.8, 1.2mm etc. ) that show many euhedral forms and some simple twinning. Continuous dilating antigorite veins form networks between the crowded olivine crystals ( see above ), which are broader serpentine vein networks than in 259744.

Pyrite crystals present in antigorite veins are large anhedral crystals. Smaller magnetite grains occur as euhedral octahedral (~0.2mm) crystals which are scattered throughout; the smaller grains, being secondary, and formed during serpentinisation.

Dusty iron oxides are densely distributed within some serpentinised olivine aggregates.

Observation by incident light reveals pyrite as anhedral masses to 2 x 0.8mm and much finer grains 0.01mm occupying veins of antigorite.

As for other minerals present, the pyrite is multi-fractured and fractures are filled with magnetite that cuts across earlier antigorite veinlets. Magnetite also follows and fills veins which dilate ( 0.02 to 0.04mm wide ) otherwise containing antigorite. The pyrite contains numerous fine white specks, anisotropic with bluish pink colours of heazlewoodite, also fine ( 0.002, 0.004mm ) veins of pleochroic pink grey mineral fill fractures in the pyrite, also probably heazlewoodite.

Chromite shows marginal embayment by magnetite.

Lenticular secondary magnetite trends with antigorite in spaces between olivine grains.

#### Alteration:

Very strong serpentinisation shows antigorite accompanied by pyrite in veins.

Less magnetite occurs within otherwise antigorite veinlets.

#### Metamorphism:

Brecciation preceded serpentinisation.

259747 / MPS 4542

## Petrographic summary:

Antigorite:talc schist, contains brecciated spinel, grouped together as laminae or as separate grains, and also brecciated carbonate that has cut across all other structures.

Carbonate vein was accompanied by pyrite, the only sulphide present.

Platinoid minerals are apparently absent from polished section.

## Mineralogy:

Antigorite	62
Talc	15
Carbonate	15
Chromite	5
Brucite	2
Pyrite	1

## Texture:

A strongly sheared and altered ultrabasic rock. Consists of sub-parallel and interlocking vein-like felts of fibro-lamellar structures ( ~ 0.06mm wide ) of antigorite showing a faintly greenish colour. The cross-fibre veinlets alternate with finely fibrous layers of talc. Talc is isolated by merging serpentine veinlets, though the distribution of serpentine and talc is fairly even throughout the section where carbonate vein has not intruded.

Lenticular layers of separate subhedral chromite grains vary 0.06 to 2 x 1.2mm, and these are irregularly fractured, the fractures being filled by serpentine → talc → carbonate. Smaller chromite grains ( 0.06 to 0.3mm ), not arranged in lenticles are rarely fractured and retain euhedral crystal forms cushioned from continuing shear by layers of adjoining softer serpentine and talc.

Carbonate veins varying 0.03 to 0.5mm in width, dilate and fill cross fractures, and show no particular orientation thus forming irregular networks striking across all minerals but rarely through the chromite, where pyrite fills narrow fractures.

Between coarse carbonate veins in close proximity are bundles of colourless fibrous brucite ( 0.8 and 1.2mm wide ) surrounded by antigorite.

Viewed by incident light, the chromite grains are seen to be faintly brownish grey with fractures ( 0.4mm wide ) that contain pyrite. One large grain of pyrite ( 0.35 x 0.15mm ) is seen to be a porphyroblast and contains an abundance of serpentine fragments. Other pyrite grains ( ~ 0.05 x 0.02mm ) are joined by fine capillaries of pyrite which also connect with a carbonate vein :also similarly anhedral pyrite ( 0.15 x 0.10mm ) is joined to carbonate and carbonate:pyrite capillaries ( 0.015mm ). Coarse pyrite ( 0.025mm wide ) fills a fracture within carbonate vein.

All pyrite is weakly anisotropic, pink to pink-grey.

Alteration:

Olivine  $\longrightarrow$  antigorite  $\longrightarrow$  talc.

Pyrite replacement of chromite.

Metamorphism:

Increasing shear resulted in talc forming at the expense of antigorite.

APPENDIX 7 (Cont.)

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**METALS EXPLORATION LIMITED**  
INCORPORATED IN VICTORIA



ANALYSIS ORDER  
**19041**  
PLEASE QUOTE THIS ORDER  
NUMBER ON ASSAY RESULTS,  
INVOICES & CORRESPONDENCE.

860253

To M.E.L. Laboratory  
cnr. Lionel & Holmes St.  
Boulder, W.A. 6432

To P. Curtis  
MinPet Services  
P.O. Box 192  
BEACONSFIELD N.S.W 2019

unless addressed otherwise.

PLEASE SUPPLY ASSAYS AS PER INSTRUCTIONS FOR SAMPLES LISTED BELOW.

CONSIGNMENT DETAILS		OR SEE CONSIGNMENT DETAILS ON ANALYSIS ORDER
Total number of samples in consignment: <u>11</u>	(total of all orders)	
Packed in: <u>padded Envelope</u>		
Freight company: <u>Australia Post</u>		
Consignment Note No.: _____	Dated: <u>16/4/87</u>	
From (town): <u>RUSHWORTH</u>	No. _____	

ONLY for orders to M.E.L. Lab.  
M.E.L. ACCOUNT CODE or prospect / project

**INSTRUCTIONS**

1. Preparation

2. Elements & Analytical Methods Required.

*See Accompanying  
Sheet.*

3. Special Instructions

JOB PRIORITY  
 Routine  Priority

ASSAY RESULTS Mail a copy of results to addresses listed below:	<input type="checkbox"/>
Exploration Secretary 2nd Floor, Jardine House 184 St. Georges Terrace PERTH, W.A. 6000	<input checked="" type="checkbox"/>
Telex or Fax. Exploration Manager	<input type="checkbox"/>
Facsimile: (09) 324 1042 Telex: AA 197127 METEX	<input type="checkbox"/>
<i>Copy: M. MILLER 146 HEILY ST RUSHWORTH VIC 3612</i>	<input type="checkbox"/>
<i>T. SUMMONS LEVEL 28, NAURU HOUSE 80 COLLINS ST MELBOURNE VIC</i>	<input type="checkbox"/>

M.E.L. Analytical Report Sheets	ORDER PREPARED BY: <u>M. MILLER</u> Print Name	
	DATE: <u>16</u> / <u>4</u> / <u>87</u> Day Month Year	
	SAMPLE TYPE (Soil, Drill Core, etc.) <u>Rock Grabs.</u>	
	FIRST SAMPLE No.      LAST SAMPLE No.	
	SAMPLE No.      MATERIAL	
1	<u>259744</u>	
2	<u>45</u>	
3	<u>46</u>	
4	<u>47</u>	
5	<u>48</u>	
6	<u>49</u>	
7	<u>50</u>	
8	<u>51</u>	
9	<u>52</u>	
10	<u>53</u>	
11	<u>259754</u>	
12	<u>259755</u>	
13		
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25		
26		
27		
28		
29		
30		

INVOICE: Send invoice to above address indicated by

Water,  
237

12/1/87.

860254

WORK REQUIRED for these Rock samples.

SAMPLE NO

- 259744 T.S. Description of Rock type.
- 259745 Polished Thin section Identify any sulphides + Description of Rock type.
- 259746 Polished Thin section Identify all mineral phases + Blue colouration, + description.
- 259747 Polished Thin section. Identify & describe rock type.  
Are there any A Group elements present or NiS's??
- 259748 XRD on green mineral, + Polished thin section to identify rock type + sulphides.
- 259749 As Above.
- 259750 As For 259748.
- 259751 Polished thin section. Identify grey spotted mineral + sulphides.
- 259752 As Above.
- 259753 Polished thin section, Identify Rock + green mineral and sulphides.
- 259754 XRD + Polished thin section on Apple green material in carbonaceous sediment.
- 259755 XRD green mineral + T.S.

Thankyou

Regards.

de Abille

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APPENDIX 8

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860256

NIMPET REPORT 24/87

June 1987

A PETROGRAPHIC AND MINERALOGIC  
EXAMINATION OF 'BLUE ROCK'  
NO. 259746

(prepared for Mr. E. Summons of  
Metals Exploration Ltd., Melbourne)

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MINPET SERVICES  
659 BOTANY ROAD,  
ROSEBERY, N.S.W.

REPORT NO. 24 / 87

PETROGRAPHIC AND MINERAGRAPHIC  
EXAMINATION OF 'BLUE ROCK' SPECIMEN  
NO. 259746

( Prepared for Mr. T. Summons of  
Metals Exploration Ltd., Melbourne.)

May, 1987.

CONTENTS

	<u>PAGE NO.</u>
1. INTRODUCTION	1
2. SUMMARY	3
3. PETROGRAPHIC AND MINERAGRAPHIC DESCRIPTIONS	3
4. REFERENCES	5

## Appendices:

1. Order No. 19041, dated 16th April, 1987.  
from Mr. T. Summons, Metals Exploration Ltd.
2. XRD report from Dr. Ivor Roberts, University of  
N.S.W.

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INTRODUCTION

A specimen numbered 259746 of so-called 'blue rock' from Tasmania was submitted for rock identification and metamorphic status.

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DISCUSSION

The rock specimen is a riebeckite:quartz metasomatised metamorphic. That the riebeckite:quartz rock was ultramafic before alteration is indicated by the presence of abundant chromite, traces of nickel sulphide and possible garnierite. The close intergrowths of amphibole as shown where unsilicified is characteristic of the outer zones of metasomatised peridotite plugs in contact with granite ( Pitcher ). Slabs of the specimen were subjected to K feldspar and plagioclase staining but no feldspar was identified.

It would appear that amphibolitisation of the original ultramafic rock was accompanied by soda metasomatism to produce riebeckite rather than hornblende.

Source of metasomatism was deep emanating along major zones of dislocation.

According to Turner and Verhooogen ( p. 487 ), 'alkali metasomatism is by no means confined to contact zones connected with intrusions of granitic and syenitic rocks. The residual solutions expelled from basic and even ultrabasic magmas are often sufficiently sodic to bring about notable enrichment of neighbouring rocks in soda'..... 'The persistent tendency of glaucophane schists ( or less commonly schists containing riebeckite or aegirine ) to develop from sedimentary and basaltic rocks of geosynclines by metasomatic introduction of soda, especially in the vicinity of serpentinite bodies' ..... occurs during hydrothermal metamorphism ( pp. 243. ).

The presence of riebeckite may suggest a final state of very low grade metamorphism ( Winkler. )

SUMMARY:

A strongly silicified and amphibolitised ultramafic rock that is also brecciated and sheared. The latter continued somewhat after alteration. The rock is moderately foliated. Traces of heazlewoodite occur within brecciated chromite grains.

MINERALOGY:

Riebeckite	38
Chromite	12
Magnetite	7
Quartz	40
Specularite	3
Pyrite	trace
Heazlewoodite	faint traces
Garnierite	<1

Veins: 1. Quartz  
2. Quartz

TEXTURE:

Rock consists of masses of fibrous bundles of blue, green and brown ( weathered ) pleochroic amphibole. The amphibole bundles form decussate growths as mosaics surrounded and partly replaced by quartz that contains spherulites of the fine amphibole, coloured yellow brown as weathering replacement of the blue-green riebeckite. Traces of bright green nickel serpentine or garnierite nestle between some riebeckite needles. Quartz occurs as massive sutured equigranular quartz grains ( varies 0.05 to 0.12mm ) containing fine ( ~ 0.03mm ) blebs of secondary magnetite and residual yellow brown fibres of the amphibole.

The quartz replacement mosaics merge with coarse ( to 1.0 mm wide ) quartz veins that also contain an abundance of magnetite and relict amphibole. Later coarse quartz vein ( varies 1.5mm to 2mm wide ) contains no relicts of other minerals but merges with adjoining earlier quartz silicification and contains abundant relicts.

Chromite as brown, translucent euhedral octahedra and subhedral grains varies 0.3 to 1.0mm. The latter grains trail as laminar groups and networks with intermediate scattered single grains trending across the amphibole and part silicified amphibole layers.

Many chromite grains are fractured, the fractures are filled with quartz and quartz is separated from the chromite by narrow zones or coatings of hematite and fine pyrite traces.

Scattered throughout the silicified groundmass is fine secondary magnetite, an alteration product of earlier olivine and probably also an alteration product of chromite ( Uytendogaardt ). Magnetite also forms fine networks, grains being more highly reflective than chromite vary 0.0005 to 0.004mm. Heazlewoodite<sup>olivine</sup> in chromite as trails of ovoids of weakly anisotropic blue white to pink, as breccia throughout zones of strong silicification.

The weak foliation is shown by trending chromite 'layers' and the main quartz vein.

Riebeckite optics show pleochroic intense blue to violet ( or pink ) colours and spotty bright green patches. These modify to yellow-brown and green masses of altered riebeckite which occur as radiate growths of amphibole and lenticular networks ( 0.05 to 0.4mm in thickness ), that also trend with the foliation.

Other optical characteristics of the riebeckite are  $2V = 60^\circ$ , negative elongation ( length fast ) and an extinction angle of  $\sim 5^\circ$ . The mineral is too fibrous to distinguish basal amphibole cleavage angles.

#### ALTERATION:

Metasomatic olivine  $\rightarrow$  riebeckite  
 Strong silicification from quartz vein.  
 Riebeckite  $\rightarrow$  brown-yellow amphibole ( weathering ).  
 Chromite  $\rightarrow$  magnetite.  
 Quartz vein ( early ) brecciation weakly to 'chert'.

#### METAMORPHISM:

Brecciation and shear is contemporary with alteration and post alteration.

REFERENCES:

- Uytenbogaardt and Burke  
Tables of Microscopic Identification  
of Ore Minerals - Elsevier pub. 1971.
- Pitcher, W.S and  
Burger A.K.  
The Geology of Donegal  
Wiley Interscience 1972.
- Turner, F.J. and  
Verhoogen, J.  
Igneous and Metamorphic  
Petrology  
M<sup>C</sup> Graw Hill 1951.
- Winkler, H.G.F.  
Petrogenesis of Metamorphic  
Rocks 1979.  
Springer - Verlag.

X-ray Diffraction Analysis of  
Submitted Sample of "Blue Rock".

for

Mr Peter Curtis  
Minpet Services

by

Dr Ivor Roberts  
Dept. of Applied Geology  
University of New South Wales

May, 1987.

### 1. INTRODUCTION

At the request of Mr Peter Curtis of Minpet Services we have analysed the submitted sample by X-ray diffraction. The submitted sample is known as "blue rock" and had the sample number MPS4541.  
/259746.

### 2. METHOD OF ANALYSIS

The submitted sample was ground in a tungsten carbide ring mill to a particle size sufficient to pass a 300 mesh screen. The ground sample was then prepared as an unoriented powder mount and analysed using a Philips PW1050 X-ray diffractometer and iron-filtered cobalt K alpha radiation. The resulting X-ray diffraction pattern was interpreted using the J.C.P.D.S. Powder Diffraction File.

### 3. RESULTS AND COMMENTS

The main components of the submitted sample are quartz, magnetite and an amphibole mineral. Quartz is the dominant component and, based on the X-ray diffractogram, probably represents more than 40% of the rock. Magnetite and the amphibole mineral are present in lesser amounts.

Due to extensive solid solution, precise identification of individual amphibole minerals can be difficult. The J.C.P.D.S. File lists 47 X-ray diffraction patterns for minerals in the amphibole group; there was, however, no complete match with any of these patterns. Closest similarity was with the riebeckite pattern (PDF 19-1061), possibly indicating that the amphibole mineral has a composition somewhere between riebeckite and glaucophane. There is, however, sufficient dissimilarity to indicate that the amphibole mineral is not crossite. Confirmation that the amphibole mineral is riebeckite-

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860266  
2.

like would only be possible with the chemical analysis of the amphibole mineral. There is the possibility that two amphibole minerals are present, however, this is not indicated from the diffractogram due to the sharpness of the 310 peak and the absence of a doublet which probably would occur if two species were present in the sample.

In addition, no sillimanite was detected in the submitted sample.



Dr Ivor Roberts

APPENDIX 9

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David C. Simpson B.Sc. M.Aus.IMM

860268

Consulting and Contract Geologist

(004) 42.3519  
(Bus & A/H)

55 Jackson St  
Wynyard,  
Tasmania 7325

6 JUNE 1977

Mr. T. Summons,  
Senior Geologist, Eastern Australia,  
Metals Exploration Ltd.,  
Level 28,  
80 Collins Street,  
MELBOURNE, Vic. 3000

Re: Adamsfield percussion samples

Dear Tim,

As mentioned per phone, I sent five samples of the red-brown "jasper" to Wally Fander for identification and brief petrological description.

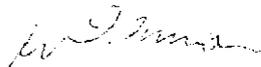
The following are details of the samples:

<u>Sample No.</u>	<u>Hole No.</u>	<u>Depth</u>
101016	AHP 87-02	11-12
101017	AHP 87-02	9-10
101018	AHP 87-05	27-28
101019	AHP 87-06	42-43
101020	AHP 87-06	41-42

I have asked Wally to send you the report and invoice with a copy of the report to me.

I will telephone you re the trench mapping at Mt. Bischoff as soon as I return from Indonesia in mid-July.

Yours sincerely,



D. Simpson

Central Mineralogical Services



Mr. T. Summons  
Metals Exploration Ltd.  
Level 28  
80, Collins Street  
MELBOURNE / VIC. 3000

39 Beulah Road  
Norwood, S.A. 5067  
Telephone 42 5659  
FAX. 08-363 1820

30th June, 1987

REPORT CMS 87/6/25

YOUR REFERENCE:	Letter dated 18.6.1987
DATE RECEIVED:	22nd June, 1987
SAMPLE NOS.:	101016 - 101020
SUBMITTED BY:	D.C. Simpson
WORK REQUESTED:	Petrology

Copy to:  
Mr. D.C. Simpson  
Consultin & Contract Geologist  
55, Jackson Street  
WYNYARD / TAS. 7325

*H.W. Fander*  
H.W. Fander, M. Sc.

REPORT CMS 87/6/25Percussion Chip Samples 101016 - 101020

Five samples of percussion chips were received for petrographic study; thin-sections were prepared, using a special technique to section large numbers of chips; the samples are described below.

101016 (T.S. 58239)

The rock type is a steatitised serpentinite, which is also extensive & sideritised (pink/brown grains); the chips are representative of various stages of alteration.

Some chips show relict network textures and small antigorite patches, progressively replaced by fine talc; in others, siderite has incipiently to extensively replaced all earlier minerals. Many of the chips contain euhedral chromite as whole and fractured crystals.

The original rock was a medium-grained ultramafic intrusive, but its precise composition is now indeterminate; the dominance of Mg suggests a dunite/peridotite.

101017 (T.S. 58240 - 58243)

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101020 All these rocks are very similar to, and correlatable with, 101016, and can all be classified as steatitised, sideritised serpentinites.

Some, like 101018, are more heavily sideritised (the "siderite" may be more in the nature of ankerite or ferrodolomite); some samples contain fragments of vein-quartz, and one chip in 101020 contains bundles of ultrafine ?riebeckite needles.

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