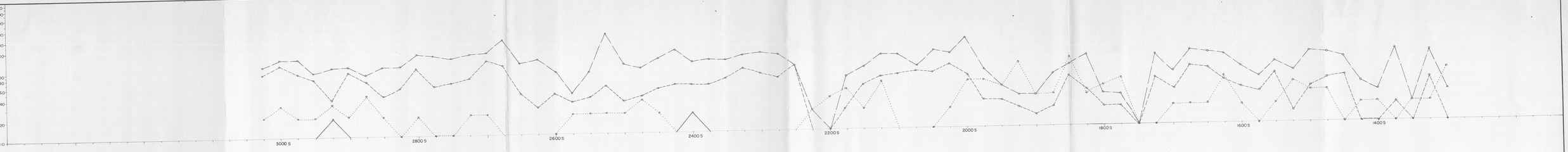
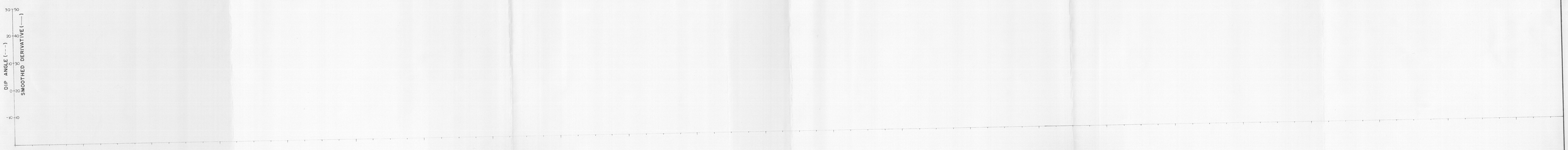
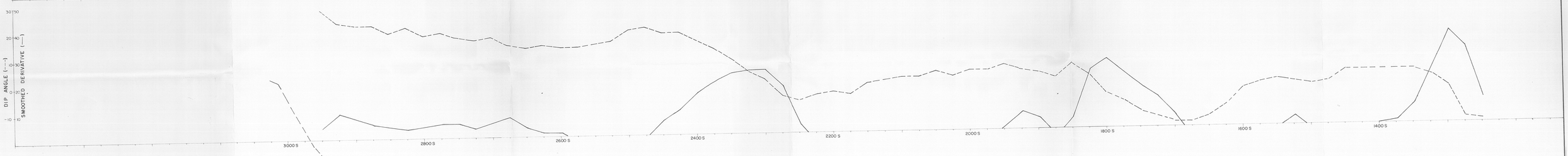
## Geochemistry (P.P.M.)



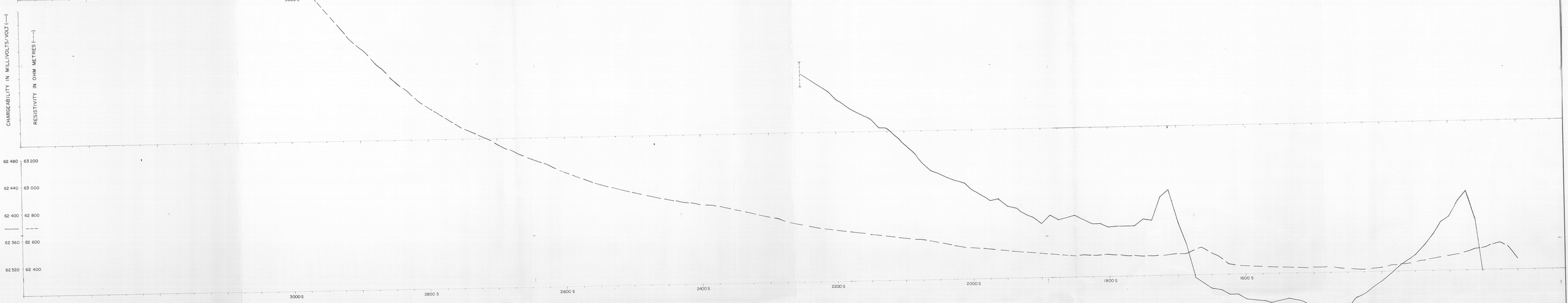

## V.L.F. - E.M.
Tx = Japan




## V.L.F. - E.M.
Tx = N.W. Cape



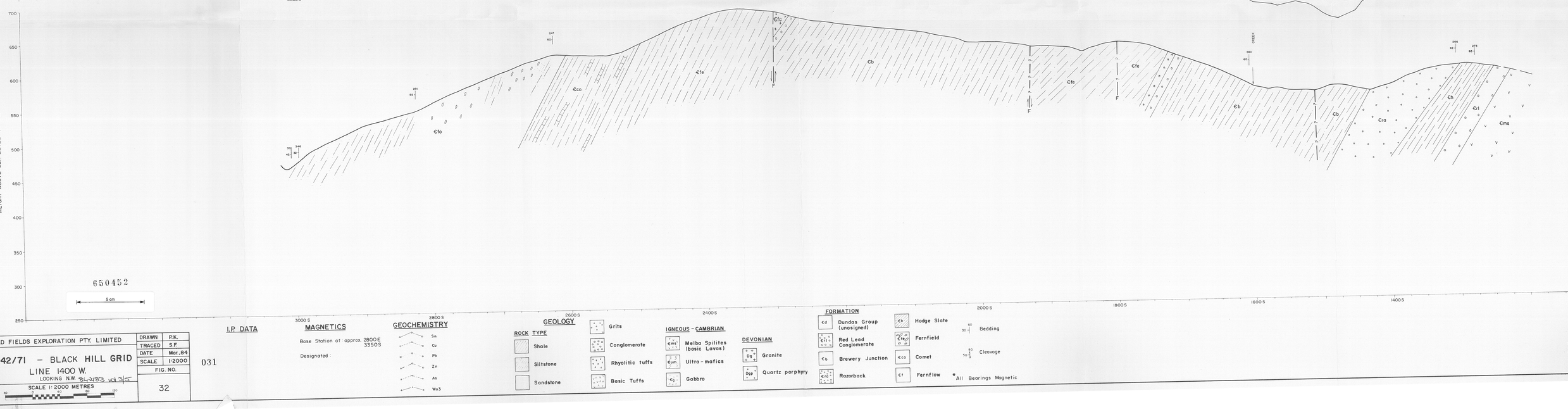

## Gradient Array I.P.




## Total Magnetic Field (γ)




## Topography & Geology
HEIGHT ABOVE SEA LEVEL - (Metres)




650452

5 cm

I.P. DATA

**MAGNETICS**

Base Station at approx. 2800E 3350S

Designated :

**GEOCHEMISTRY**

Sn
Cu
Pb
Zn
As
Wo3

**GEOLOGY**

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- €ms — Melba Spilites (basic Lavas)
- €um — Ultra-mafics
- €g — Gabbro

DEVONIAN

- Dg — Granite
- Dqp — Quartz porphyry

FORMATION

- €d — Dundas Group (unasigned)
- €rls — Red Lead Conglomerate
- €b — Brewery Junction
- €ra — Razorback
- €h — Hodge Slate
- €fe — Fernfield
- €co — Comet
- €f — Fernflow

Bedding

Cleavage

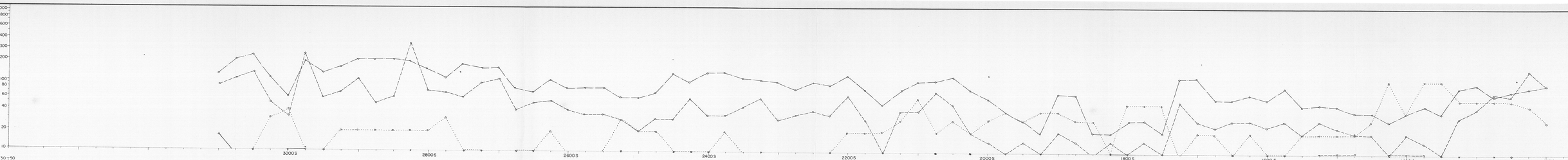
*All Bearings Magnetic

| | |
|---|---|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| E.L.42/71 – BLACK HILL GRID | |
| LINE 1400 W. | |
| LOOKING N.W. 84-2183 vol 3/5 | |
| SCALE 1:2000 METRES | |

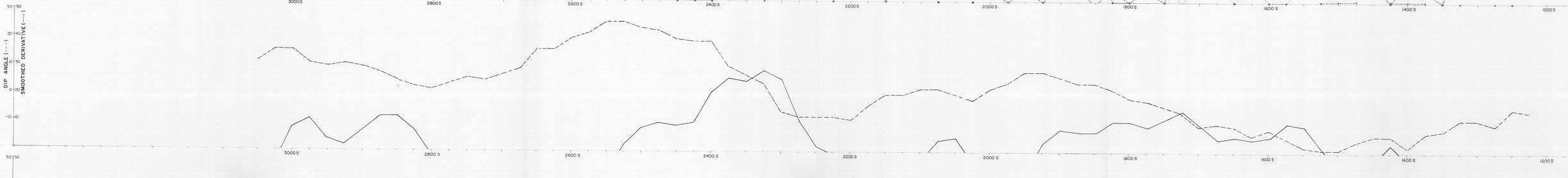
| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.84 |
| SCALE | 1:2000 |
| FIG. NO. | 32 |

031

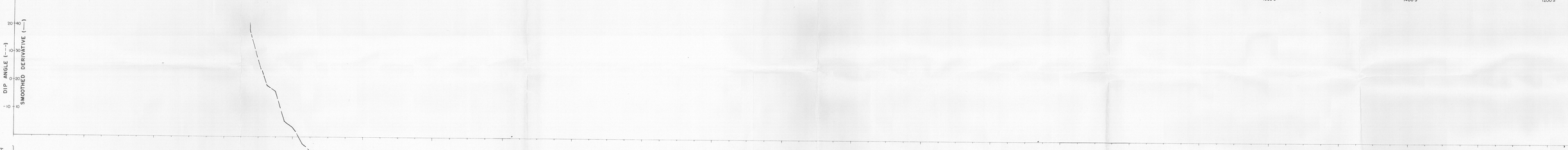
**Geochemistry** (P.P.M.)



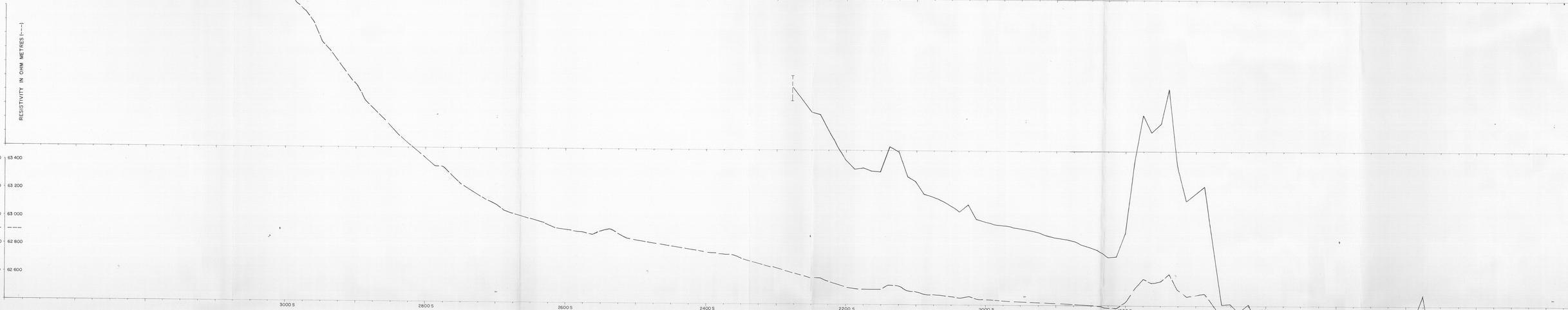

**V.L.F. - E.M.**
Tx = N.W. Cape




**V.L.F. - E.M.**



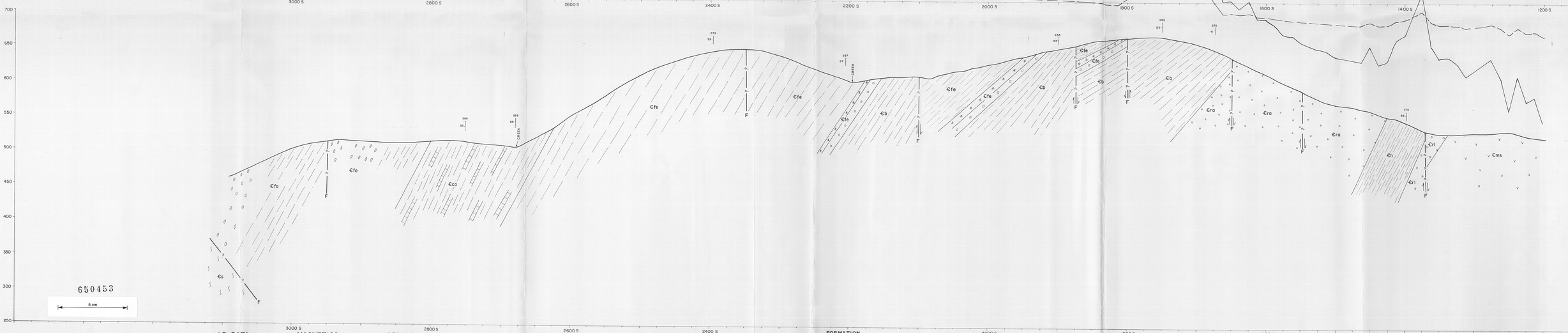

**Gradient Array I.P.**




**Total Magnetic Field (Ø)**

| | |
|---|---|
| 62 520 | 63 400 |
| 62 480 | 63 200 |
| 62 440 | 63 000 |
| —— | --- |
| 62 400 | 62 800 |
| 62 360 | 62 600 |

**Topography & Geology**
HEIGHT ABOVE SEA LEVEL - (Metres)




650453

5 cm

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L.42/71 – BLACK HILL GRID

LINE 1600 W.

LOOKING N.W. Bl. 240°/60° Vert. 315°

SCALE 1:2000 METRES

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.,84 |
| SCALE | 1:2000 |
| FIG. NO. | 33 |

I.P. DATA

032

**MAGNETICS**

Base Station at : approx 2800 E 3350 S

Designated :

**GEOCHEMISTRY**

Sn
Cu
Pb
Zn
As
Wo3

**GEOLOGY**

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- Melbo Spilites (basic Lavas)
- Ultra - mafics
- Gabbro

DEVONIAN

- Granite
- Quartz porphyry

FORMATION

- Cd — Dundas Group (unasigned)
- Crl — Red Lead Conglomerate
- Cb — Brewery Junction
- Cra — Razorback
- Ch — Hodge Slate
- Cfe — Fernfield
- Cco — Comet
- Cf — Fernflow

30 — Bedding

50 — Cleavage

* All Bearings Magnetic

O32

**Geochemistry** (P.P.M.)

1000 800 600 400 300 200 100 80 60 40 20 10

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S N.S. 1600 S 1400 S 1200 S

**V.L.F. - E.M.**

Tx = N.W. Cape

DIP ANGLE (----) SMOOTHED DERIVATIVE (——)

50 40 30 20 10 0 -10 -40

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S 1200 S

**V.L.F. - E.M.**

DIP ANGLE (----) SMOOTHED DERIVATIVE (——)

50 40 30 20 10 0 -10

**Gradient Array I.P.**

CHARGEABILITY IN MILLIVOLTS/VOLT (——)

RESISTIVITY IN OHM METRES (----)

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S 1200 S

**Total Magnetic Field (Ö)**

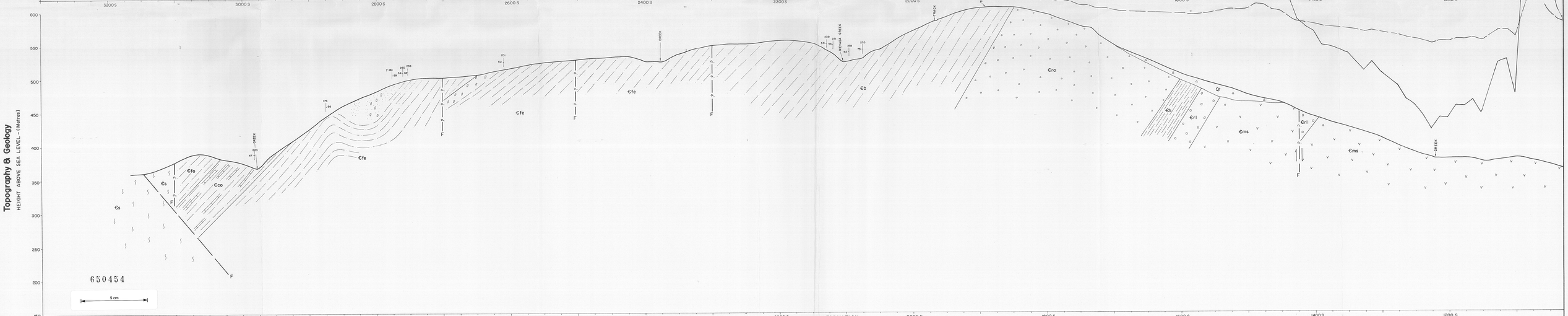
62 440 - 63 400 - 67 000
62 400 - 63 200 - 66 000
62 360 - 63 000 - 65 000
62 320 - 62 800 - 64 000
62 280 - 62 600 - 63 000

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S 1200 S

**Topography & Geology**

HEIGHT ABOVE SEA LEVEL - (Metres)

600 550 500 450 400 350 300 250 200 150




650454

5 cm

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S 1200 S

| | |
|---|---|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| E.L. 42/71 – BLACK HILL GRID | |
| LINE 1800 W. | |
| LOOKING N.W. 324-243 | |
| SCALE 1:2000 METRES | |

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar. 84 |
| SCALE | 1:2000 |
| FIG. NO. | 34 |

033

**I.P. DATA**

**MAGNETICS**

Base Station at: approx. 2800 E 3350 S

Designated:

**GEOCHEMISTRY**

Sn
Cu
Pb
Zn
As
Wo3

**GEOLOGY**

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- Melba Spilites (basic Lavas)
- Ultra-mafics
- Gabbro

DEVONIAN

- Granite
- Quartz porphyry

FORMATION

- Cd Dundas Group (unasigned)
- Crl Red Lead Conglomerate
- Cb Brewery Junction
- Cra Razorback
- Ch Hodge Slate
- Cfe Fernfield
- Cco Comet
- Cf Fernflow

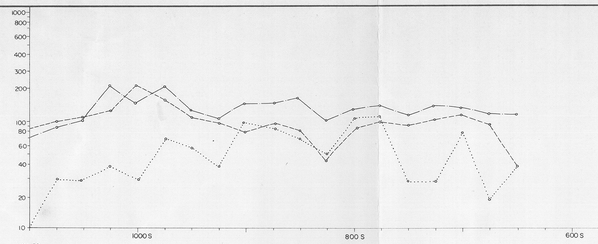
30/60 Bedding

50/80 Cleavage

* All Bearings Magnetic

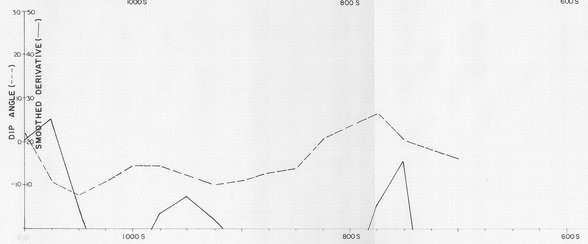
033

## Geochemistry (P.P.M.)

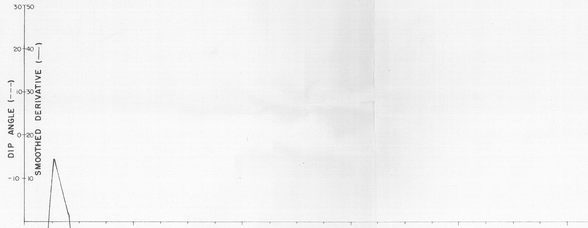



## V.L.F. - E.M.

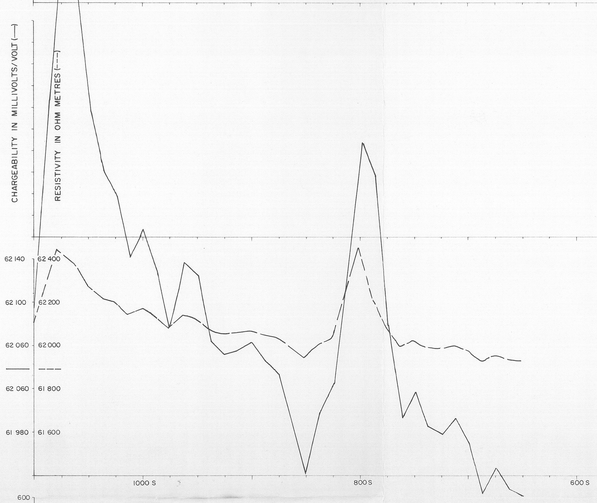
Tx = N.W. Cape




## V.L.F. - E.M.



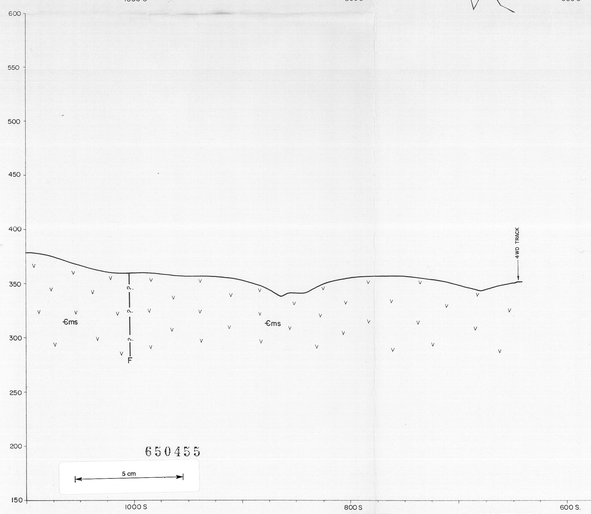

## Gradient Array I.P.




## Total Magnetic Field (γ)

## Topography & Geology

HEIGHT ABOVE SEA LEVEL - (Metres)




I.P. DATA

MAGNETICS

Base Station at : approx. 2800E 3350S

Designated :

GEOCHEMISTRY

Sn
Cu
Pb
Zn
As
Wo3

GEOLOGY

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- €ms — Melba Spilites (basic Lavas)
- €um — Ultra-mafics
- €g — Gabbro

DEVONIAN

- Dg — Granite
- Dqp — Quartz porphyry

FORMATION

- Cd — Dundas Group (unasigned)
- €rl — Red Lead Conglomerate
- €b — Brewery Junction
- €r — Razorback
- €h — Hodge Slate
- €fr — Fernfield
- €co — Comet
- Cf — Fernflow

30/60 Bedding

50/80 Cleavage

* All Bearings Magnetic

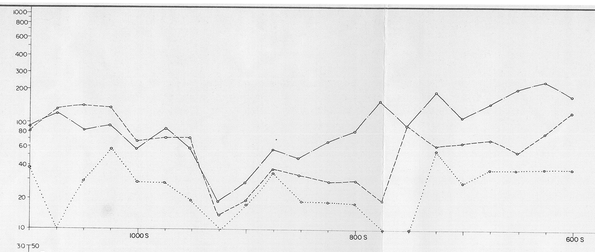
| | |
|---|---|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| E.L.42/71 - BLACK HILL GRID | |
| LINE 1800 W. | |
| LOOKING N.W. 3L-2(2) vol 2/5 | |
| SCALE 1:2000 METRES | |

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.84 |
| SCALE | 1:2000 |
| FIG. NO. | 35 |

034

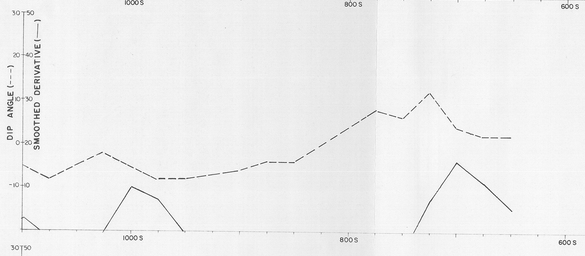
034

## Geochemistry (P.P.M.)

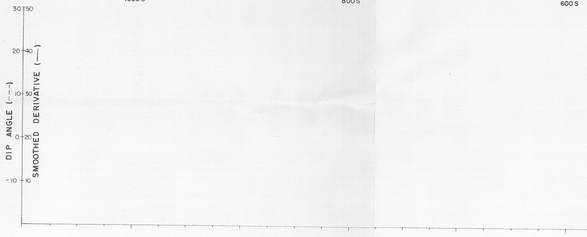



## V.L.F. - E.M.

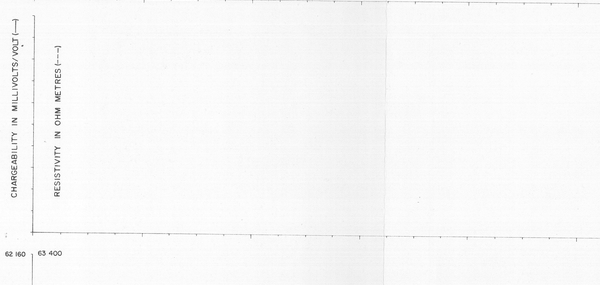
Tx = N.W. Cape



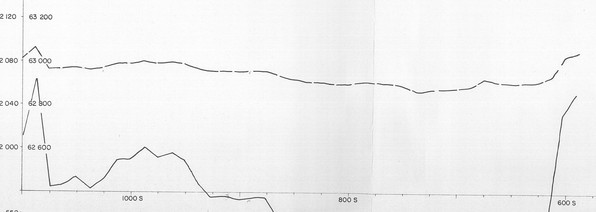

## V.L.F. - E.M.




## Gradient Array I.P.

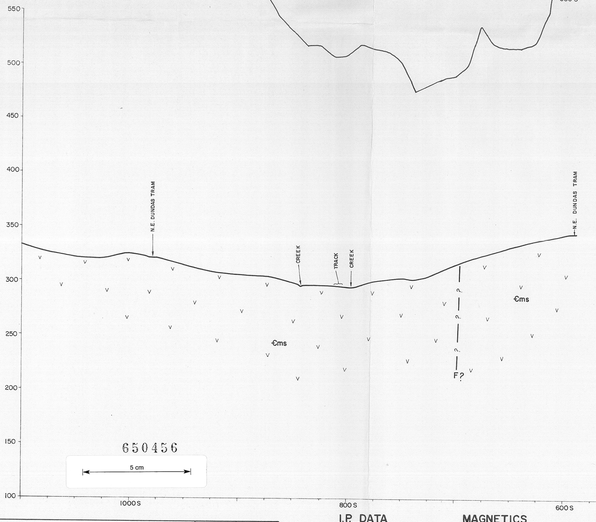



## Total Magnetic Field (Ø)




## Topography & Geology

HEIGHT ABOVE SEA LEVEL - (Metres)




## I.P. DATA

## MAGNETICS

Base Station at : approx. 2800 E 3350 S

Designated :

## GEOCHEMISTRY

Sn
Cu
Pb
Zn
As
Wo3

## GEOLOGY

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- Melba Spilites (basic Lavas)
- Ultra-mafics
- Gabbro

DEVONIAN

- Granite
- Quartz porphyry

FORMATION

- Dundas Group (unasigned)
- Red Lead Conglomerate
- Brewery Junction
- Razorback
- Hodge Slate
- Fernfield
- Comet
- Fernflow

60/30 Bedding

60/50 Cleavage

* All Bearings Magnetic

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L.42/71 - BLACK HILL GRID

LINE 2000 W.

LOOKING N.W. 2183 N 1215

SCALE 1:2000 METRES

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.,84 |
| SCALE | 1:2000 |
| FIG. NO. | 36 |

035

035

**Geochemistry** (P.P.M.)

1000 800 600 400 300 200 100 80 60 40 20 10

3800 S 3000 S 2800 S N.S. 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S 1200 S

**V.L.F. - E.M.**

Tx = N.W. Cape

DIP ANGLE (---) SMOOTHED DERIVATIVE (——)

30 20 10 0 -10 50 40 30 20 10 0 -10

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S 1200 S

**V.L.F. - E.M.**

DIP ANGLE (---) SMOOTHED DERIVATIVE (——)

30 20 10 0 -10 50 40 30 20 10 0 -10

**Gradient Array I.P.**

CHARGEABILITY IN MILLIVOLTS/VOLT (——)

RESISTIVITY IN OHM METRES (- - -)

**Total Magnetic Field (γ)**

62 560 | 63 400 - 67 000

62 520 | 63 200 - 66 000

62 480 | 63 000 - 65 000

62 440 | 62 800 - 64 000

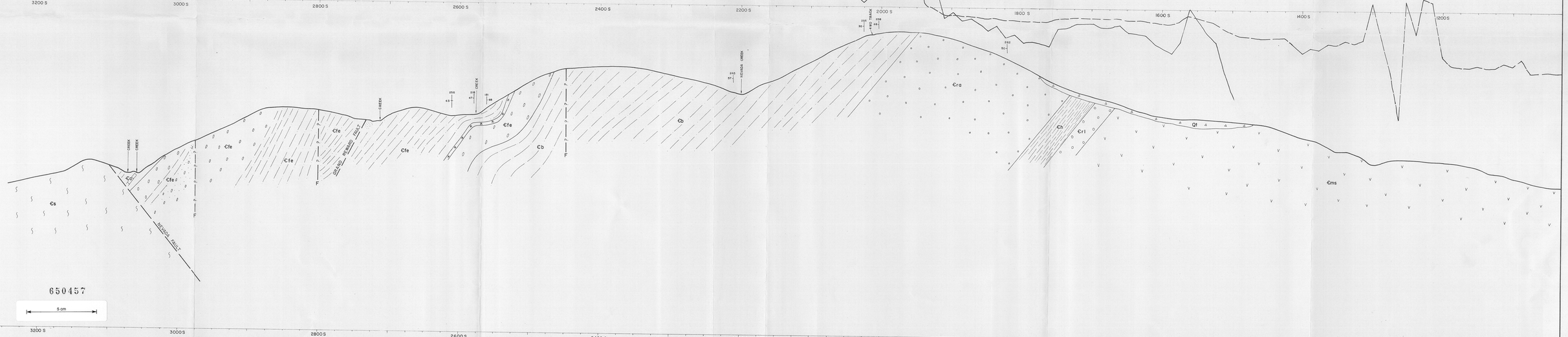
62 400 | 62 600 - 63 000

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S 1200 S

**Topography & Geology**

HEIGHT ABOVE SEA LEVEL (-Metres)

550 500 450 400 350 300 250 200 150 100




650457

5 cm

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S 1200 S

I.P DATA

**MAGNETICS**

Base Station at : approx. 2800E 3350S

Designated :

**GEOCHEMISTRY**

Sn Cu Pb Zn As Wo3

**GEOLOGY**

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- Melba Spilites (basic Lavas)
- Ultra - mafics
- Gabbro

DEVONIAN

- Granite
- Quartz porphyry

FORMATION

- Cd Dundas Group (unasigned)
- Cfr Red Lead Conglomerate
- Cb Brewery Junction
- Cro Razorback
- Ch Hodge Slate
- Cfe Fernfield
- Cco Comet
- Cf Fernflow

30/60 Bedding

50/80 Cleavage

* All Bearings Magnetic

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L. 42/71 – BLACK HILL GRID

LINE 2000 W

LOOKING N.W. GL-2183 VD135

SCALE 1:2000 METRES 0 40 80 120

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.,84 |
| SCALE | 1:2000 |
| FIG. NO. | 37 |

036

036

**Geochemistry** (P.P.M.)

1000 800 600 400 300 200 100 80 60 40 20 10

N.S. N.S. N.S. N.S. N.S.

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S

**V.L.F. - E.M.**
Tx = N.W. Cape

DIP ANGLE (——) SMOOTHED DERIVATIVE (——)

30 20 10 0 -10 -10 50

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S

**V.L.F. - E.M.**

DIP ANGLE (——) SMOOTHED DERIVATIVE (——)

30 20 10 0 -10 50 40 30 20 10 0

**Gradient Array I.P.**

CHARGEABILITY IN MILLIVOLTS/VOLT (——)

RESISTIVITY IN OHM METRES (- - -)

**Total Magnetic Field (Ó)**

62 440 | 63 600 - 66 000
62 400 | 63 400 - 65 000
62 360 | 63 200 - 64 000
62 320 | 63 000 - 63 000
62 280 | 62 800 - 62 000

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S

**Topography & Geology**
HEIGHT ABOVE SEA LEVEL (1 Metres)

500 450 400 350 300 250 200 150 100 50

4WD TRACK · TRACK · CREEK · CREEK · NEVADA CREEK · WD TRACK · CREEK · WD TRACK · NEVADA CREEK · WD TRACK · CREEK · MINE DUMP · WD TRACK · 10mE GRAND PRIZE MILL · NEVADA CREEK · 4WD TRACK · 4WD TRACK · N.E. DUNDAS TRAM · CREEK

Cs Cra Ch Cfe Cb Cfe Cb Cra Cra Ch Cri Q1 Cms Cs

NEVADA FAULT · GRAND PRIZE GULF · GRAND REWARD FAULT · NEVADA FAULT

650458

3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S 1400 S

| | |
|---|---|
| GOLD FIELDS EXPLORATION PTY. LIMITED | DRAWN P.K. |
| | TRACED S.F. |
| E.L.42/71- BLACK HILL GRID | DATE Mar.,84 |
| LINE 2200 W. LOOKING N.W. | SCALE 1:2000 |
| SCALE 1:2000 METRES 0 40 80 120 | FIG. NO. 38 |

037

**I.P DATA**

**MAGNETICS**

Base Station at approx. 2800E 3350S

Designated :

5 cm

**GEOCHEMISTRY**

Sn Cu Pb Zn As Wo3

**GEOLOGY**

ROCK TYPE

Shale · Siltstone · Sandstone · Grits · Conglomerate · Rhyolitic tuffs · Basic Tuffs

IGNEOUS - CAMBRIAN

Cms Melba Spilites (basic Lavas) · Cum Ultra - mafics · Cg Gabbro

DEVONIAN

Dg Granite · Dqp Quartz porphyry

FORMATION

Cd Dundas Group (unasigned) · Cri Red Lead Conglomerate · Cb Brewery Junction · Cro Razorback · Ch Hodge Slate · Cfe Fernfield · Cco Comet · Cf Fernflow

60 Bedding · 80 Cleavage

* All Bearings Magnetic

037

**Geochemistry** (PPM.)

1000 800 600 400 300 200 100 80 60 40 20 10

3400 S 3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S

**V.L.F. - E.M.**

Tx = N.W. Cape

DIP ANGLE (---) SMOOTHED DERIVATIVE (——)

30 20 10 0 10 50 40 30 20 10

3400 S 3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S

**V.L.F. - E.M.**

DIP ANGLE (---) SMOOTHED DERIVATIVE (——)

30 20 10 0 10 50 40 30 20 10

**Gradient Array I.P.**

CHARGEABILITY IN MILLIVOLTS/VOLT (——)

RESISTIVITY IN OHM METRES (- - -)

T

**Total Magnetic Field (Ó)**

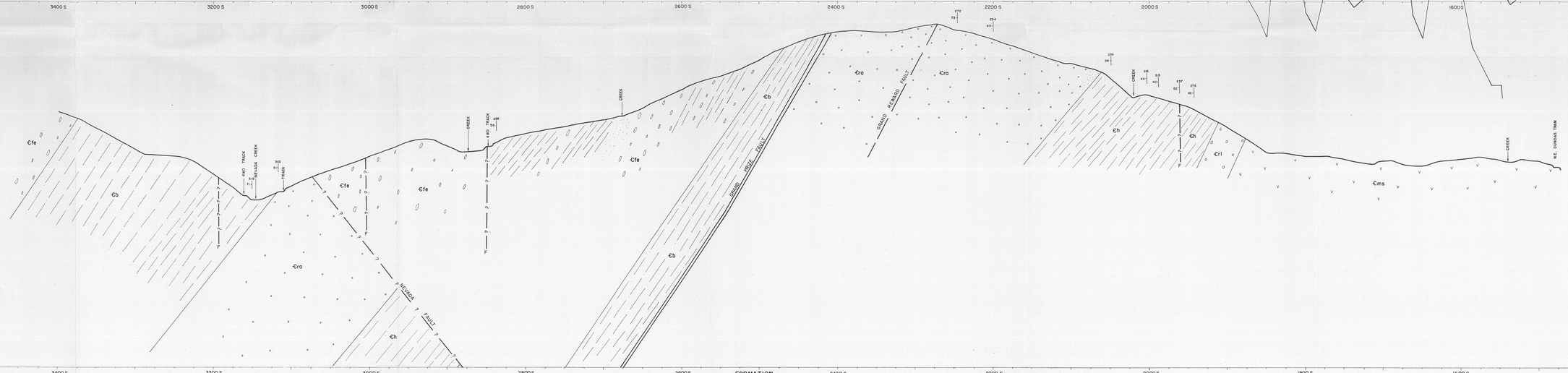
62 600 63 200
62 560 63 000
62 520 62 800
62 480 62 600
62 440 62 400

3400 S 3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1600 S

**Topography & Geology**

HEIGHT ABOVE SEA LEVEL - (Metres)

500 450 400 350 300 250 200 150 100 50




3400 S 3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S 1600 S

650459

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L. 42/71 — BLACK HILL GRID

LINE 2400 W

LOOKING N.W. Bl-2183 Vol 4 Fol 54

SCALE 1:2000 METRES

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar. 84 |
| SCALE | 1:2000 |
| FIG. NO. | 39 |

038

**I.P. DATA**

**MAGNETICS**

Base Station at approx. 2800 E. 3350 S

Designated :

5 cm

**GEOCHEMISTRY**

Sn
Cu
Pb
Zn
As
Wo3

**GEOLOGY**

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- Melba Spilites (basic Lavas)
- Ultra-mafics
- Gabbro

DEVONIAN

- Granite
- Quartz porphyry

FORMATION

- Cd Dundas Group (unassigned)
- Red Lead Conglomerate
- Cb Brewery Junction
- Razorback
- Hodge Slate
- Fernfield
- Comet
- Cf Fernflow

30/60 Bedding

50/80 Cleavage

* All Bearings Magnetic

038

**Geochemistry** (P.P.M.)

**V.L.F. - E.M.**
T.x = NW. Cape

DIP ANGLE (---)
SMOOTHED DERIVATIVE (——)

**V.L.F. - E.M.**

DIP ANGLE (---)
SMOOTHED DERIVATIVE (——)

**Gradient Array I.P.**

CHARGEABILITY IN MILLIVOLTS/VOLT (——)
RESISTIVITY IN OHM METRES (---)

**Total Magnetic Field (Ŏ)**

**Topography & Geology**
HEIGHT ABOVE SEA LEVEL - (Metres)

3400 S 3200 S 3000 S 2800 S 2600 S 2400 S 2200 S 2000 S 1800 S

90 -58 86 64

Cf Cb Cfe Cra Cms Ch Crl Cg

KIRD TRACK · SEYMOUR CREEK · NORTH FAULT · GRAND NORTH FAULT · GRAND CENTRE FAULT · GRAND SOUTH FAULT · CREEK · N.E. DUNDAS TRAM

035020

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L.42/71 — BLACK HILL GRID

LINE 2600 W.

LOOKING NW. Az=215° Vol=15

SCALE 1:2000 METRES

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.,84 |
| SCALE | 1:2000 |
| FIG. NO. | 40 |

039

**I.P. DATA**

**MAGNETICS**
Base Station at: approx. 2800 E 3350 S
Designated:

**GEOCHEMISTRY**
Sn
Cu
Pb
Zn
As
Wo3

**GEOLOGY**

ROCK TYPE
- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN
- Melba Spilites (basic Lavas)
- Ultra-mafics
- Gabbro

DEVONIAN
- Granite
- Quartz porphyry

FORMATION
- Cd Dundas Group (unasigned)
- Red Lead Conglomerate
- Cb Brewery Junction
- Razorback
- Hodge Slate
- Fernfield
- Cco Comet
- Cr Fernflow

Bedding
Cleavage

*All Bearings Magnetic

029

Geochemistry (P.P.M.)

V.L.F. - E.M.
Tx = NW Cape
DIP ANGLE (---)
SMOOTHED DERIVATIVE (——)

V.L.F. - E.M.
DIP ANGLE (---)
SMOOTHED DERIVATIVE (——)

Gradient Array I.P.
CHARGEABILITY IN MILLIVOLTS/VOLT (——)
RESISTIVITY IN OHM METRES (---)

Total Magnetic Field (Ø)

Topography & Geology
HEIGHT ABOVE SEA LEVEL - (Metres)

650461

| | |
|---|---|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| E.L.42/71 — BLACK HILL GRID | |
| LINE 2800 W. | |
| LOOKING N.W. SL-2283 Vol 4 p 5 | |
| SCALE 1:2000 METRES | |

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.,84 |
| SCALE | 1:2000 |
| FIG. NO. | 41 |

040

I.P. DATA

MAGNETICS
Base Station at: approx. 2800E 3350S
Designated:
5 cm

GEOCHEMISTRY
Sn
Cu
Pb
Zn
As
Wo3

GEOLOGY
ROCK TYPE
Shale
Siltstone
Sandstone
Grits
Conglomerate
Rhyolitic tuffs
Basic Tuffs
IGNEOUS - CAMBRIAN
Melba Spilites (basic Lavas)
Ultra-mafics
Gabbro
DEVONIAN
Granite
Quartz porphyry

FORMATION
Cd Dundas Group (unassigned)
Crl Red Lead Conglomerate
Cb Brewery Junction
Cra Razorback
Ch Hodge Slate
Cfe Fernfield
Cco Comet
Cf Fernflow

60/50 Bedding
80/50 Cleavage
* All Bearings Magnetic

040

**Geochemistry** (P.P.M.)

1000 800 600 400 300 200 100 80 60 40 30 20 10

2600 S 2400 S 2200 S 2000 S

**V.L.F. - E.M.**
Tx = Japan

DIP ANGLE (----) SMOOTHED DERIVATIVE (——)

30 20 10 0 -10 | 50 40 30 20 10 0 -10

**V.L.F. - E.M.**
Tx = N.W. Cape

DIP ANGLE (----) SMOOTHED DERIVATIVE (——)

30 20 10 0 -10 | 50 40 30 20 10 0 -10

**Gradient Array I.P.**

CHARGEABILITY IN MILLIVOLTS/VOLT (——)

RESISTIVITY IN OHM METRES (----)

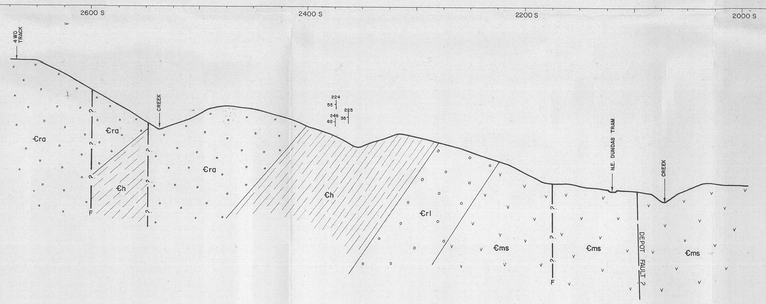
**Total Magnetic Field (Ō)**

62 440 62 400 62 360 62 320 62 280 | 63 000 62 800 62 600 62 400 62 200

**Topography & Geology**
HEIGHT ABOVE SEA LEVEL - (Metres)

400 350 300 250 200 150 100 50 0 -50

650462




GOLD FIELDS EXPLORATION PTY. LIMITED

E.L.42/71 — BLACK HILL GRID

LINE 3000 W

LOOKING N.W.

SCALE 1:2000 METRES

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.,84 |
| SCALE | 1:2000 |
| FIG. NO. | 42 |

I.P DATA

041

**MAGNETICS**

Base Station at: approx. 2800E 3350S

Designated:

5 cm

**GEOCHEMISTRY**

Sn
Cu
Pb
Zn
As
Wo3

**GEOLOGY**

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- Melba Spilites (basic Lavas)
- Ultra-mafics
- Gabbro

DEVONIAN

- Granite
- Quartz porphyry

**FORMATION**

- Cd Dundas Group (unasigned)
- Crl Red Lead Conglomerate
- Cb Brewery Junction
- Cra Razorback
- Ch Hodge Slate
- Chf Fernfield
- Cco Comet
- Cf Fernflow

50/60 Bedding

50/80 Cleavage

* All Bearings Magnetic

041

**Geochemistry** (P.P.M.)

1000 800 600 400 300 200 100 80 60 40 20 10

600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E

No sample Taken

**V.L.F. - E.M.** Tx = Japan

DIP ANGLE (---) SMOOTHED DERIVATIVE (——)

30 50 20 10 0 10 10

600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E

**V.L.F. - E.M.** Tx = N.W. Cape

DIP ANGLE (---) SMOOTHED DERIVATIVE (——)

30 50 20 10 0 10 10

600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E

**Gradient Array I.P.**

CHARGEABILITY IN MILLIVOLTS/VOLT (——)

RESISTIVITY IN OHM METRES (---)

600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E

**Total Magnetic Field (Ø)**

62 560 62 520 62 480 62 440 62 400

600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E

**Topography & Geology**

HEIGHT ABOVE SEA LEVEL - (Metres)

650 600 550 500 450 400 350 300 250 200

CREEK CARBINE TRACK MINE DUMP CREEK

€fo €fo €fo €ch €ch €ch €ch €ch Jd

600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E

650463

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L.42/71 – CARBINE HILL GRID

LINE OON.

LOOKING N. 354-2183 (01 64 W)

SCALE 1:2000 METRES

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.,84 |
| SCALE | 1:2000 |
| FIG. NO. | 43 |

042

**I.P. DATA**

**MAGNETICS**

Base Station at : approx. 2800 E 3350 S

Designated :

5 cm

**GEOCHEMISTRY**

Sn Cu Pb Zn As Wo3

**GEOLOGY**

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- €ms Melba Spilites (basic Lavas)
- €um Ultra-mafics
- €g Gabbro

DEVONIAN

- Dg Granite
- Dqp Quartz porphyry

FORMATION

- Cd Dundas Group (unassigned)
- €rl Red Lead Conglomerate
- Cb Brewery Junction
- €ra Razorback
- Ch Hodge Slate
- €fe Fernfield
- Cco Comet
- Cf Fernflow

60 Bedding

80 Cleavage

* All Bearings Magnetic

042

**Geochemistry** (P.P.M.)

1000 800 600 400 300 200 100 80 60 40 20 10

N.S. N.S. No Soils No Soils N.S.

600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E

**V.L.F. - E.M.**
Tx = Japan

DIP ANGLE (---) SMOOTHED DERIVATIVE (—)

30 20 10 0 -10 50 40 30 20 10

600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E

**V.L.F. - E.M.**
Tx = N.W. Cape

DIP ANGLE (---) SMOOTHED DERIVATIVE (—)

30 20 10 -10 50 40 30 20 10

600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E

**Gradient Array I.P.**

CHARGEABILITY IN MILLIVOLTS/VOLT (—)

RESISTIVITY IN OHM METRES (---)

**Total Magnetic Field (Ỏ)**

62 600 62 560 62 520 62 480 62 440

600 E 1000 E 1400 E 1600 E 1800 E

**Topography & Geology**
HEIGHT ABOVE SEA LEVEL - (Metres)

700 650 600 550 500 450 400 350 300 250

600 E 800 E 1000 E 1200 E 1400 E 1600 E 1800 E

Cfo Cfo Cch Cch Cch Jd Cch Cch CREEK CREEK CARBINE TRACK

650464

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L.42/71 — CARBINE HILL GRID
LINE 200 N.
LOOKING N. SG-21B3 VOL 4/5
SCALE 1: 2000 METRES

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.84 |
| SCALE | 1:2000 |
| FIG. NO. | 44 |

043

**I.P. DATA**

**MAGNETICS**
Base Station at : approx. 2800 E 3350 S
Designated :
5 cm

**GEOCHEMISTRY**
Sn Cu Pb Zn As Wo3

**GEOLOGY**

ROCK TYPE
- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN
- Melba Spilites (basic Lavas)
- Ultra - mafics
- Gabbro

DEVONIAN
- Granite
- Quartz porphyry

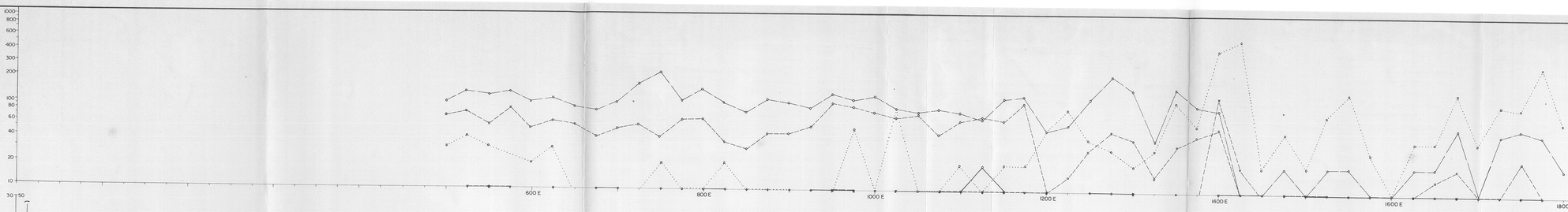
FORMATION
- Dundas Group (unasigned)
- Red Lead Conglomerate
- Brewery Junction
- Razorback
- Hodge Slate
- Fernfield
- Comet
- Fernflow

60 Bedding
60 Cleavage

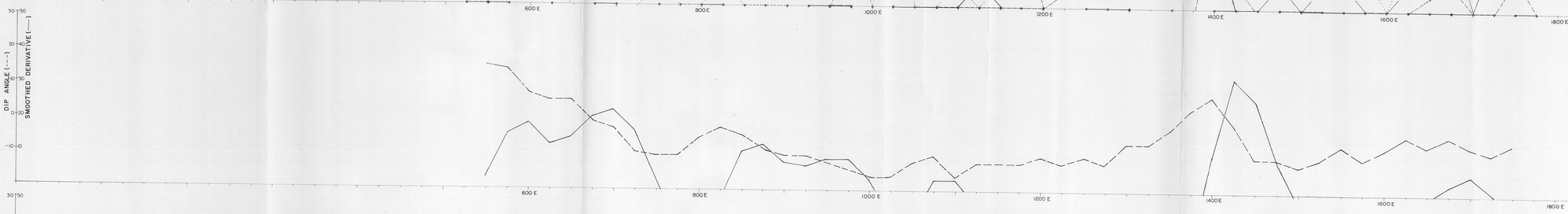
* All Bearings Magnetic

043

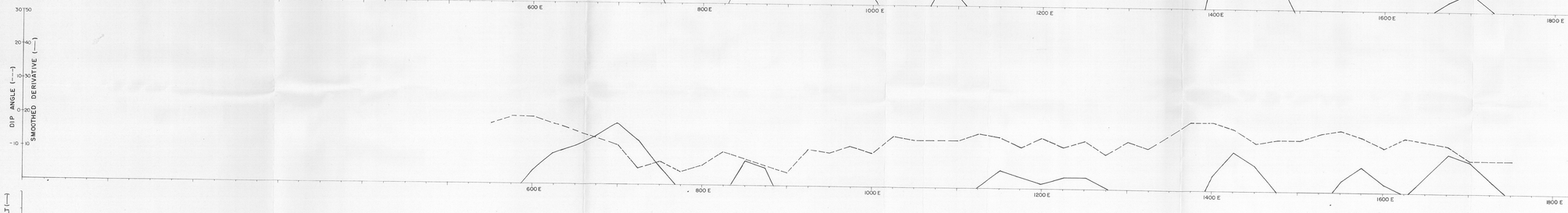
**Geochemistry** (P.P.M.)



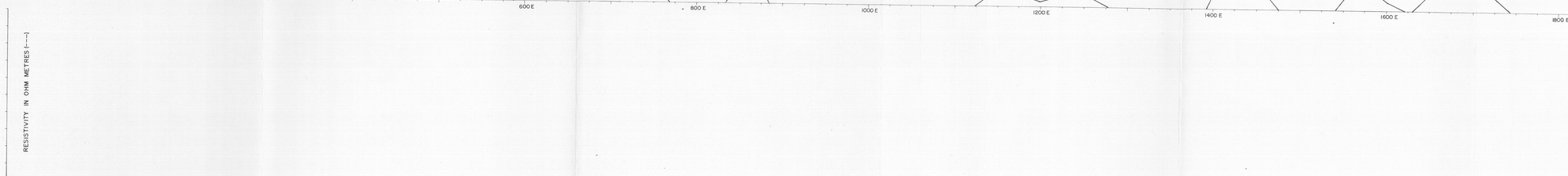

**V.L.F. - E.M.**
Tx = Japan



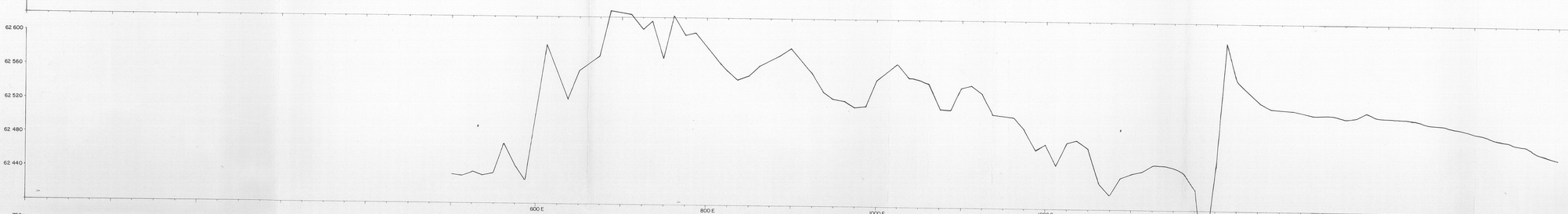

**V.L.F. - E.M.**
Tx = N.W. Cape



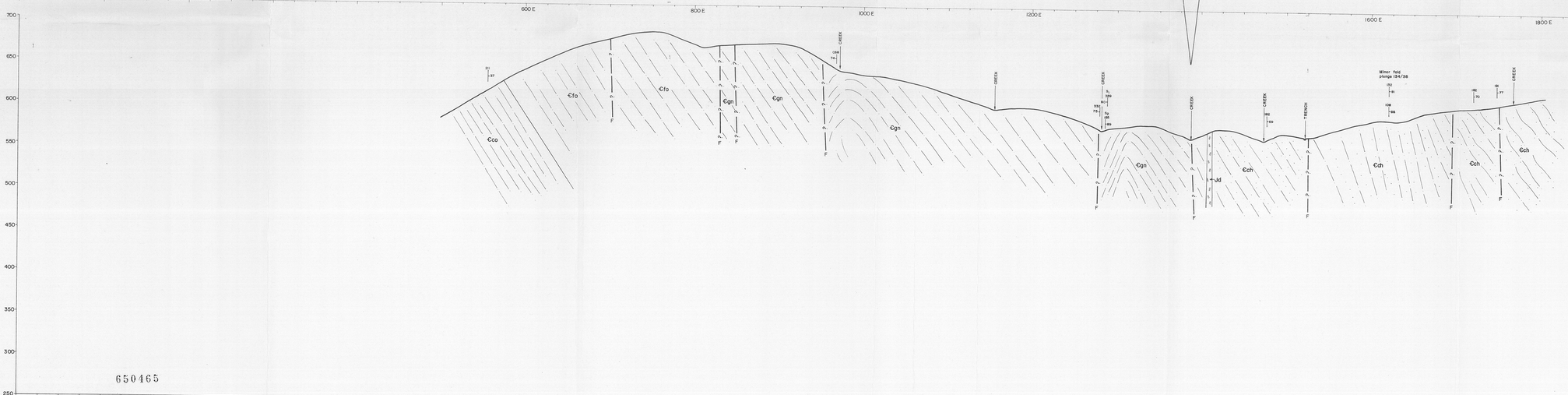

**Gradient Array I.P.**




**Total Magnetic Field (Ø)**




**Topography & Geology**
HEIGHT ABOVE SEA LEVEL - (Metres)




650465

| | |
|---|---|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| E.L.42/71 — CARBINE HILL GRID | |
| LINE 400 N. | |
| LOOKING N. 324-283 VOL 45 | |
| SCALE 1:2000 METRES | |

| | |
|---|---|
| DRAWN | R.K. |
| TRACED | S.F. |
| DATE | Mar. 84 |
| SCALE | 1:2000 |
| FIG. NO. | 45 |

044

I.P. DATA

MAGNETICS

Base Station at: approx. 2800 E 3350 S

Designated:

5 cm

GEOCHEMISTRY

Sn
Cu
Pb
Zn
As
Wo3

GEOLOGY

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- Cms — Melba Spilites (basic Lavas)
- Cum — Ultra-mafics
- Cg — Gabbro

DEVONIAN

- Dg — Granite
- Dqp — Quartz porphyry

FORMATION

- Cd — Dundas Group (unasigned)
- Cr — Red Lead Conglomerate
- Cb — Brewery Junction
- Cro — Razorback
- Ch — Hodge Slate
- Cfe — Fernfield
- Cco — Comet
- Cr — Fernflow

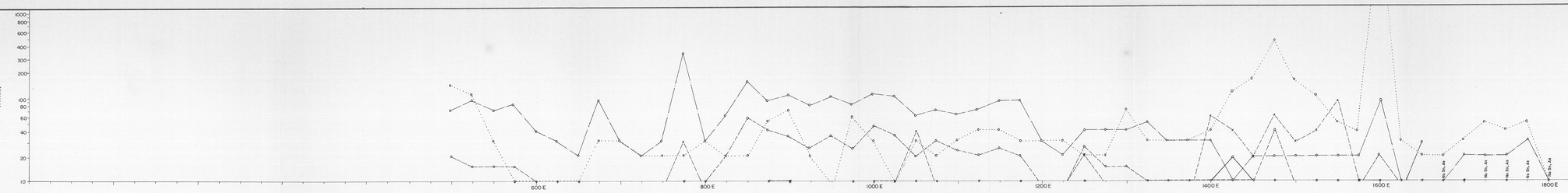
50/60 Bedding

50/50 Cleavage

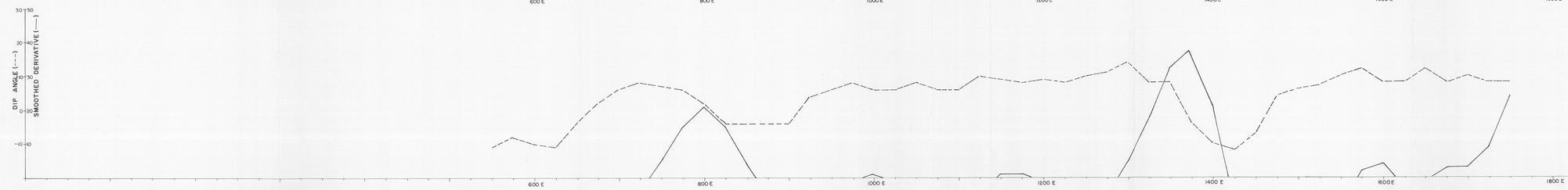
* All Bearings Magnetic

044

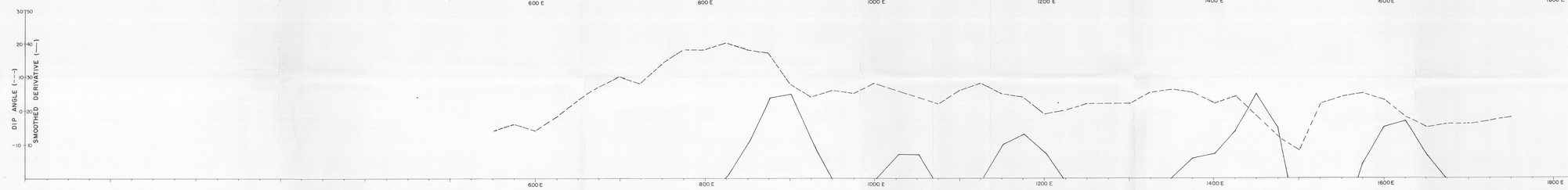
**Geochemistry** (P.P.M.)




**V.L.F. - E.M.**
Tx = Japan




**V.L.F. - E.M.**
Tx = N.W. Cape

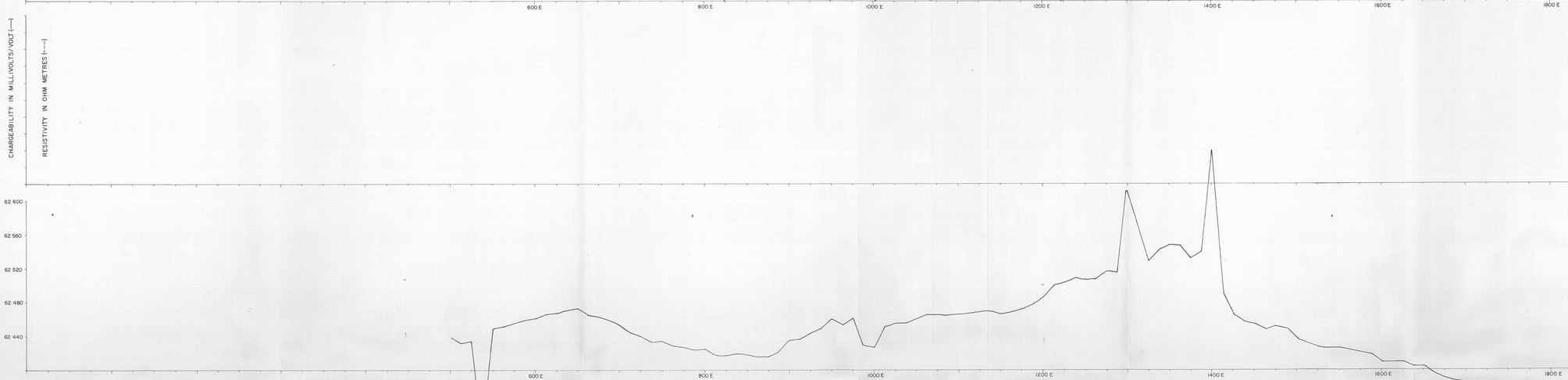



**Gradient Array I.P.**

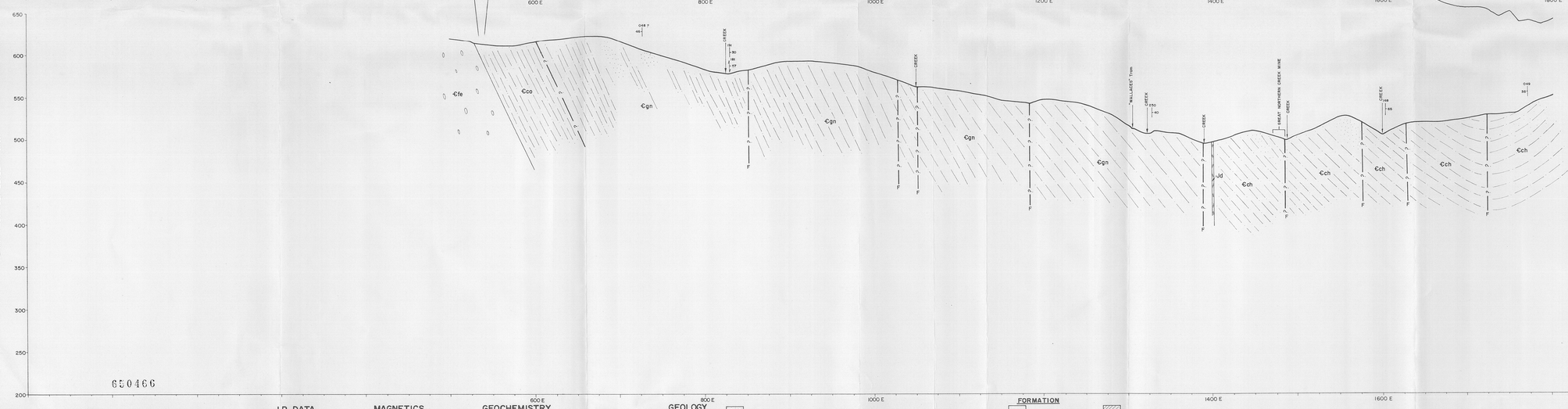
CHARGEABILITY IN MILLIVOLTS/VOLT (——)

RESISTIVITY IN OHM METRES (---)

**Total Magnetic Field (Ŏ)**




**Topography & Geology**
HEIGHT ABOVE SEA LEVEL - (Metres)




650466

I.P. DATA

**MAGNETICS**

Base Station at : approx. 2800 E 3350 S

Designated :

5 cm

**GEOCHEMISTRY**

Sn
Cu
Pb
Zn
As
Wo3

**GEOLOGY**

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- Melba Spilites (basic Lavas)
- Ultra-mafics
- Gabbro

DEVONIAN

- Granite
- Quartz porphyry

FORMATION

- Cd Dundas Group (unosigned)
- Red Lead Conglomerate
- Cb Brewery Junction
- Razorback
- Hodge Slate
- Fernfield
- Comet
- Fernflow

60 / 30 Bedding

80 / 50 Cleavage

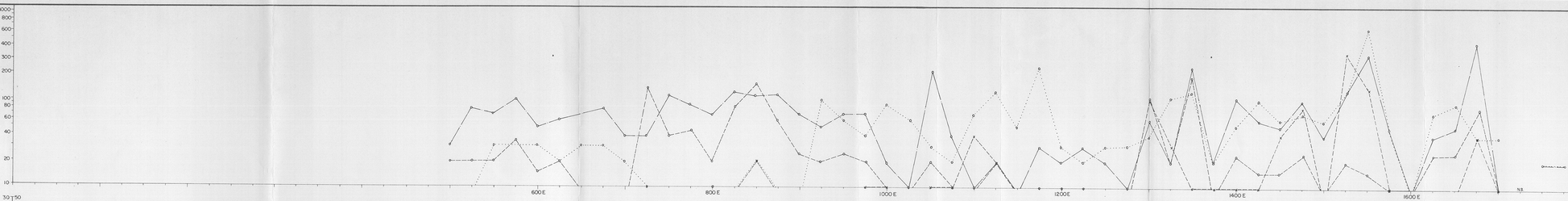
* All Bearings Magnetic

| | | |
|---|---|---|
| GOLD FIELDS EXPLORATION PTY. LIMITED | DRAWN | P.K. |
| | TRACED | S.F. |
| E.L.42/71 - CARBINE HILL GRID | DATE | Mar.,84 |
| LINE 600N | SCALE | 1:2000 |
| LOOKING N. | FIG. NO. | |
| SCALE 1: 2000 METRES | 46 | |

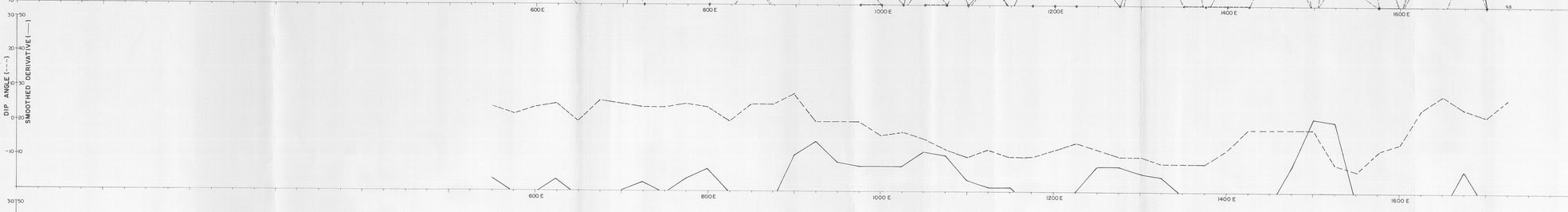
045

045

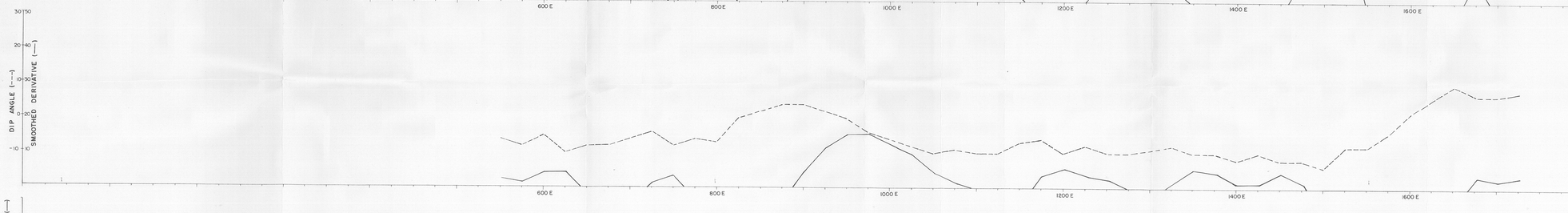
**Geochemistry** (P.P.M.)



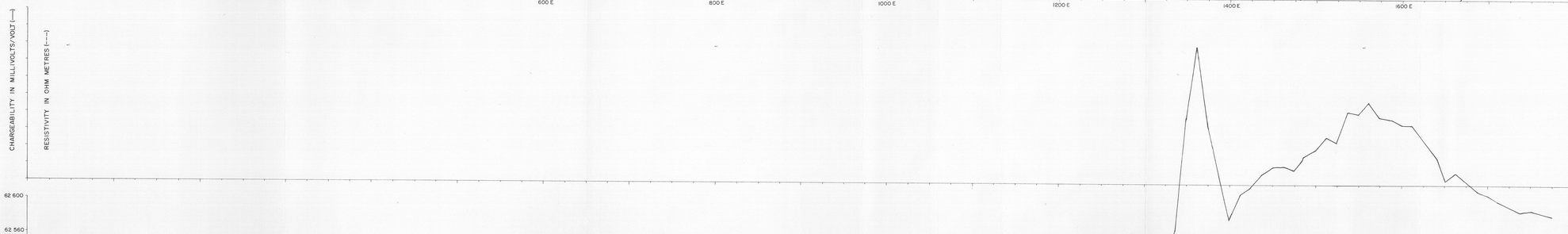

**V.L.F. - E.M.**
Tx = Japan



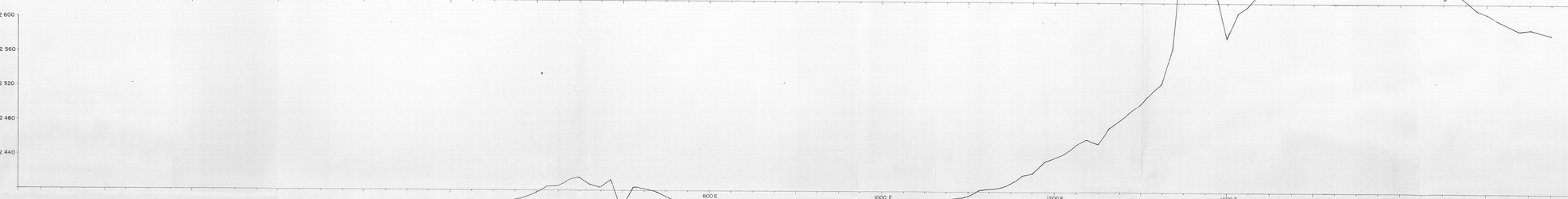

**V.L.F. - E.M.**
Tx = N.W. Cape



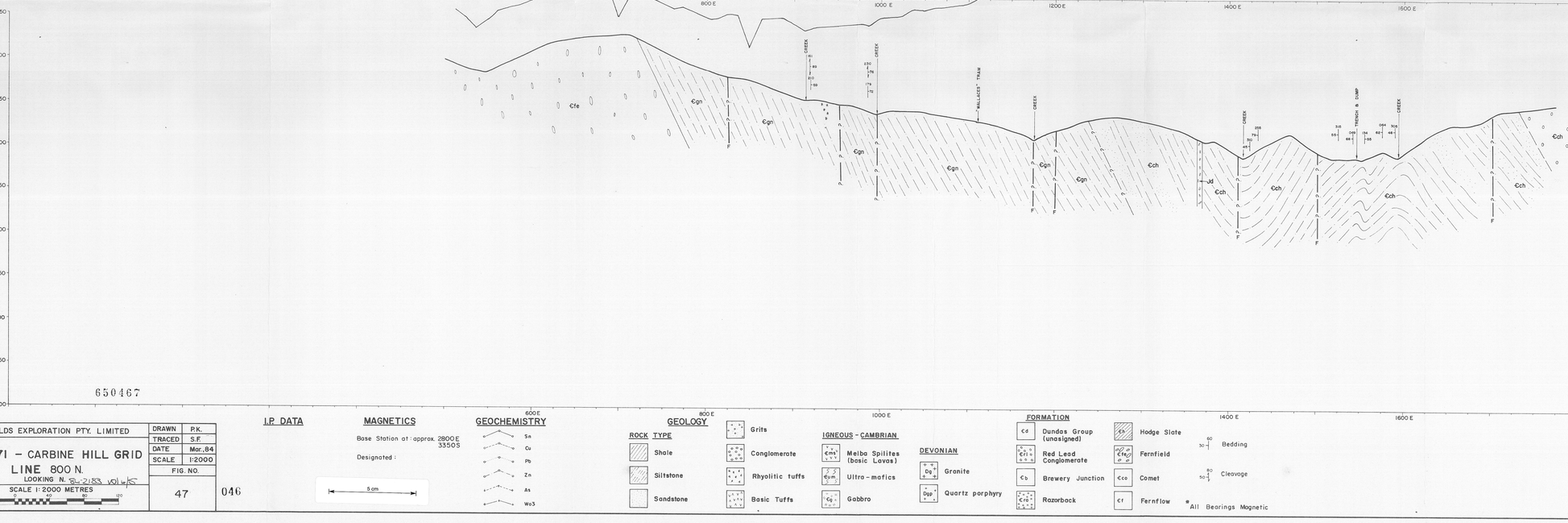

**Gradient Array I.P.**




**Total Magnetic Field (δ)**




**Topography & Geology**
HEIGHT ABOVE SEA LEVEL - (Metres)




650467

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L.42/71 – CARBINE HILL GRID

LINE 800 N.

LOOKING N. SU 2183 VOLTS

SCALE 1:2000 METRES

| | |
|---|---|
| DRAWN | P.K. |
| TRACED | S.F. |
| DATE | Mar.,84 |
| SCALE | 1:2000 |
| FIG. NO. | 47 |

046

**I.P. DATA**

**MAGNETICS**

Base Station at: approx. 2800 E 3350 S

Designated:

5 cm

**GEOCHEMISTRY**

Sn
Cu
Pb
Zn
As
Wo3

**GEOLOGY**

ROCK TYPE

- Shale
- Siltstone
- Sandstone
- Grits
- Conglomerate
- Rhyolitic tuffs
- Basic Tuffs

IGNEOUS - CAMBRIAN

- Melba Spilites (basic Lavas)
- Ultra-mafics
- Gabbro

DEVONIAN

- Granite
- Quartz porphyry

FORMATION

- Cd — Dundas Group (unassigned)
- Crl — Red Lead Conglomerate
- Cb — Brewery Junction
- Cr — Razorback
- Ch — Hodge Slate
- Cf — Fernfield
- Cco — Comet
- Cf — Fernflow

60/50 Bedding

80/50 Cleavage

* All Bearings Magnetic

046