

9. HOF (EL 2366)

9.1 Introduction

HOF lies 20 kilometres east north east of The Granites Gold Mine. The small hill central to the prospect was visited late in 1990 by field crews pegging EM/RAB traverses to test magnetic anomalies in the Approach Hill area, of which HOF is the most northerly. During 1991 HOF was mapped (Davidson Beds stratigraphy), traversed by ground magnetics, RAB drilled, vacuum drilled, rock chip sampled and costeamed.

9.2 Work Undertaken

Rock Chip Sampling

Fifty three rock chip samples were collected. Samples were dispatched for analysis for Au (30g Aqua Regia digest with carbon rod finish) and As (Hydrochloric Acid/nitric acid digestion; hydride generation, atomic absorption spectrometry finish). Lithologies sampled were confined to iron formations and andalusite hornfels after graphite schist, due to their resistive nature.

Groundmagnetics

A Groundmagnetic survey at HOF has been completed. Line spacings were 50m with readings every 10m. A total of 21 line kilometres were traversed.

Vacuum Drilling

A grid based vacuum drilling program was commenced.

Vertical holes were drilled at 25m x 100m spacings to recognisable bedrock. 60 holes were drilled for a total of 362 metres and 120 assay samples. Coluvium and a single bedrock sample were taken, split on site and dispatched for analysis for Au and As. Representative base of hole samples were collected to aid in result interpretation and to act as a source of petrological samples if required.

RAB Drilling

A short RAB drilling program was undertaken to provide an initial test of subsurface geochemistry. 31 holes were drilled on two traverses for 775 metres and 277 samples.

Costeaning

Costeans were dug to test the anomalous zone outlined by the grid based rock chip sampling program. Costeans were sampled at 1m intervals and samples dispatched for analysis for Au and As.

A summary of work completed in 1991 appears below -

Statistics of Work Completed

	Samples	Metres	Holes	Traverses
Ground Magnetics	-	21km	-	3
Rock Chip Sampling	53	-	-	-
Costeaning	500	500	-	-
Vacuum Drilling	120	362	60	-
RAB Drilling	277	775	31	2

9.3 Results

Rock Chip Sampling

Peak assay results were 32ppb Au and 130ppm As within SHIF equivalent iron formations. Anomalous rock chip results (10ppb Au) defined a 200m x 100m zone of grid north east/south west orientation.

Ground Magnetics

In comparison to the aeromagnetic anomaly, the anomaly appears less elongate, although the trend of the long axis is still grid NE-SW. The amplitude of the anomaly has increased to 700nT. The source of the magnetic anomaly is considered to be a mafic body of 30-110m half width at a depth of 115-170m.

Vacuum Drilling

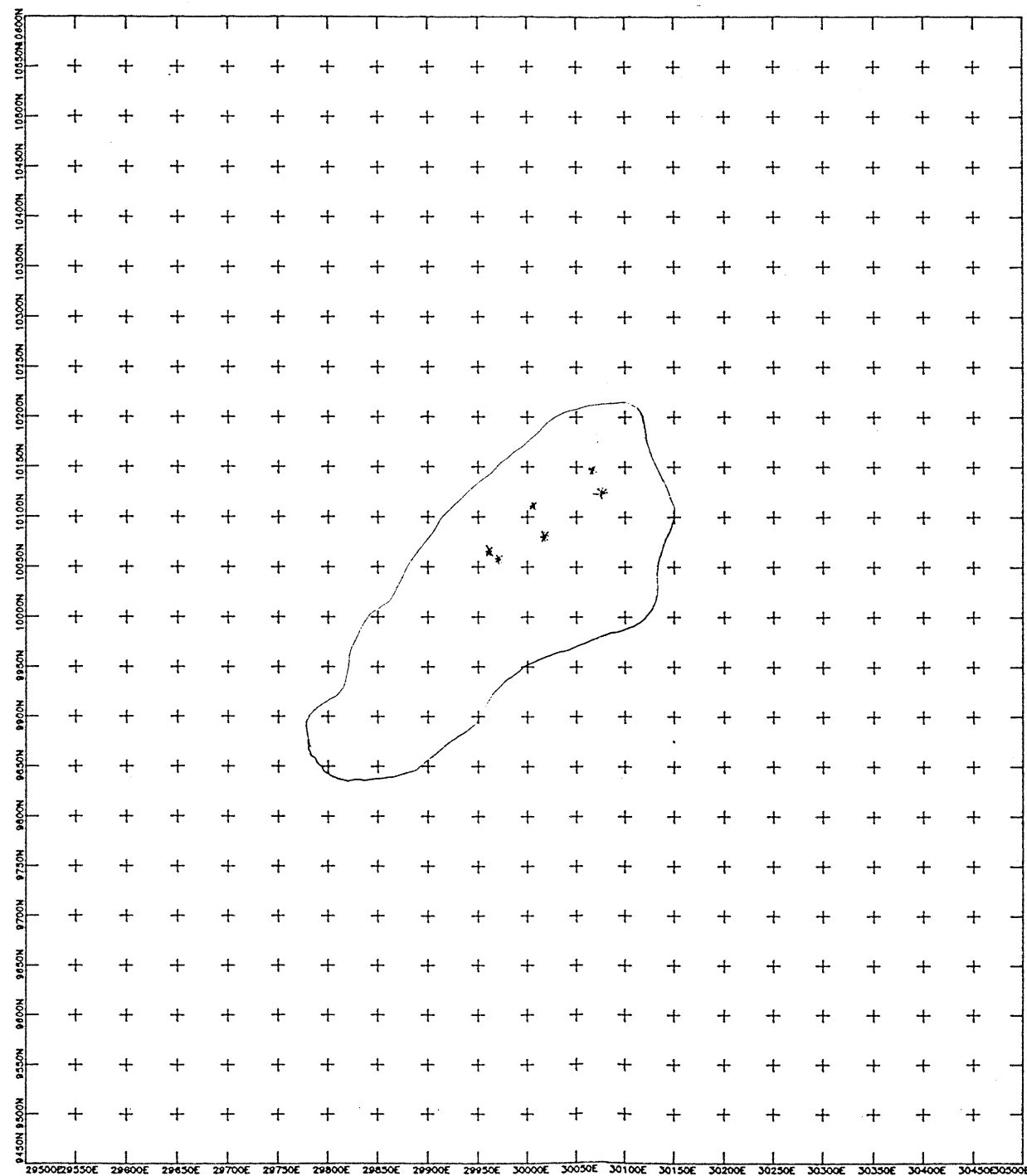
Results to date have been low. Detailed interpretation of results will be carried out when the program is complete.

Costeaning

Costeans revealed steeply dipping SHIF type iron formations within dominantly graphite schists/andalusite hornfels. Assay results were generally an order of magnitude above the rock chip values. The best intersections occurred within two iron formation horizons of up to 5m true width, over a strike length of 200m. Peak intersections were 3m @ 0.2g/t Au, 400ppm As, and 2m @ 0.28g/t Au, 940ppm As.


9.4 Plans

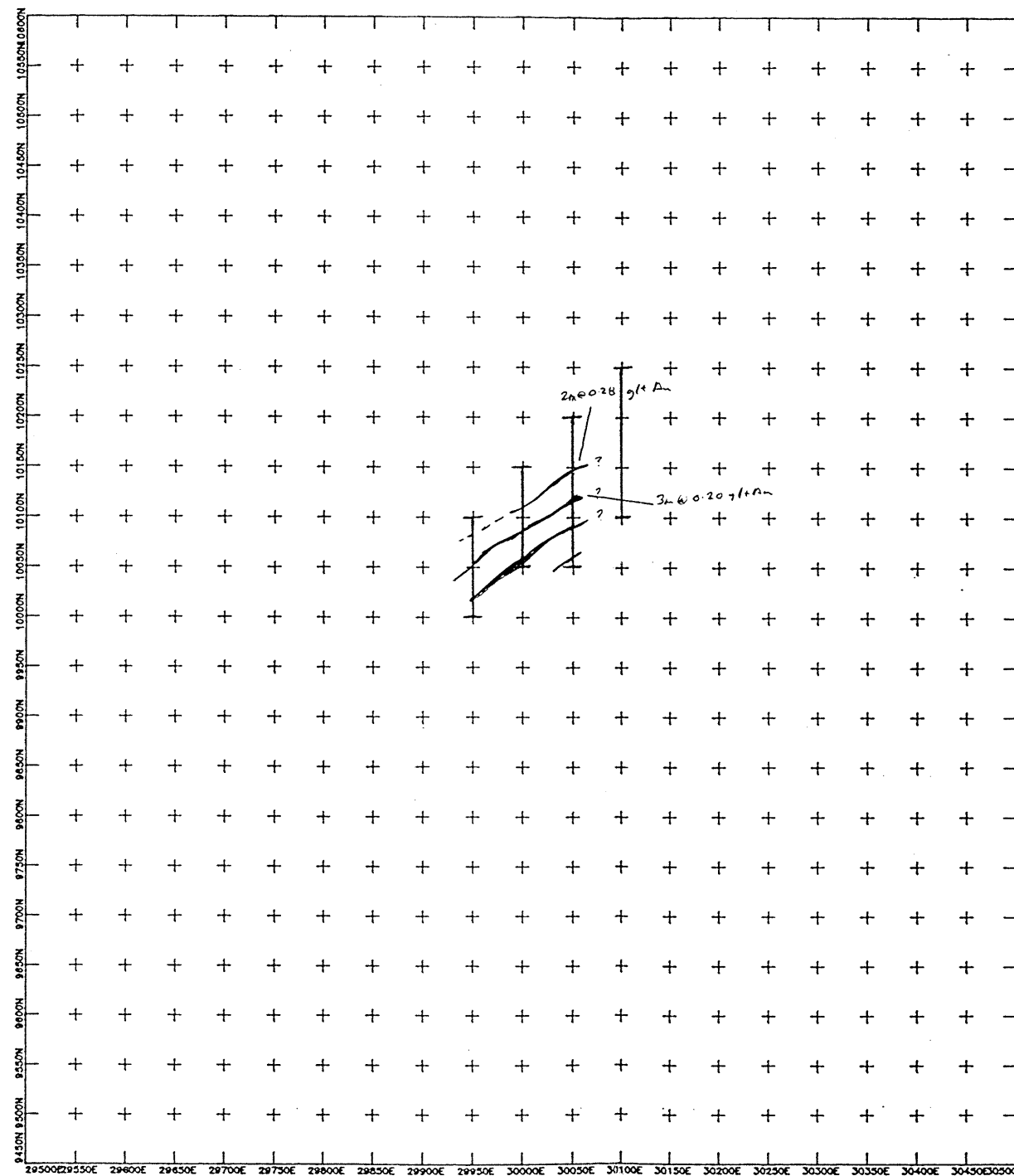
<u>Drawing No</u>	<u>Title</u>	<u>Scale</u>
1900-1348	CRC Location and assays	1:2500
1900-1350	Vacuum drilling locations with Colluvium Au/As	1:2500
1900-1351	Vacuum drilling locations with Colluvium Au/As	1:2500
1900-1353	Vacuum drilling - X sections Geology and assays 29700E	1:500
1900-1354	Vacuum drilling - X sections Geology and assays 29800E	1:500
1900-1355	Vacuum drilling - X sections Geology and assays 29900E	1:500
1900-1356	Vacuum drilling - X sections Geology and assays 30000E	1:500
1900-1357	Vacuum drilling - X sections Geology and assays 30100E	1:500



Anomalous Rockchip
Results and Extent
of Outcrop.


ANOMALOUS ROCKCHIP RESULTS AND EXTENT OF OUTCROP.

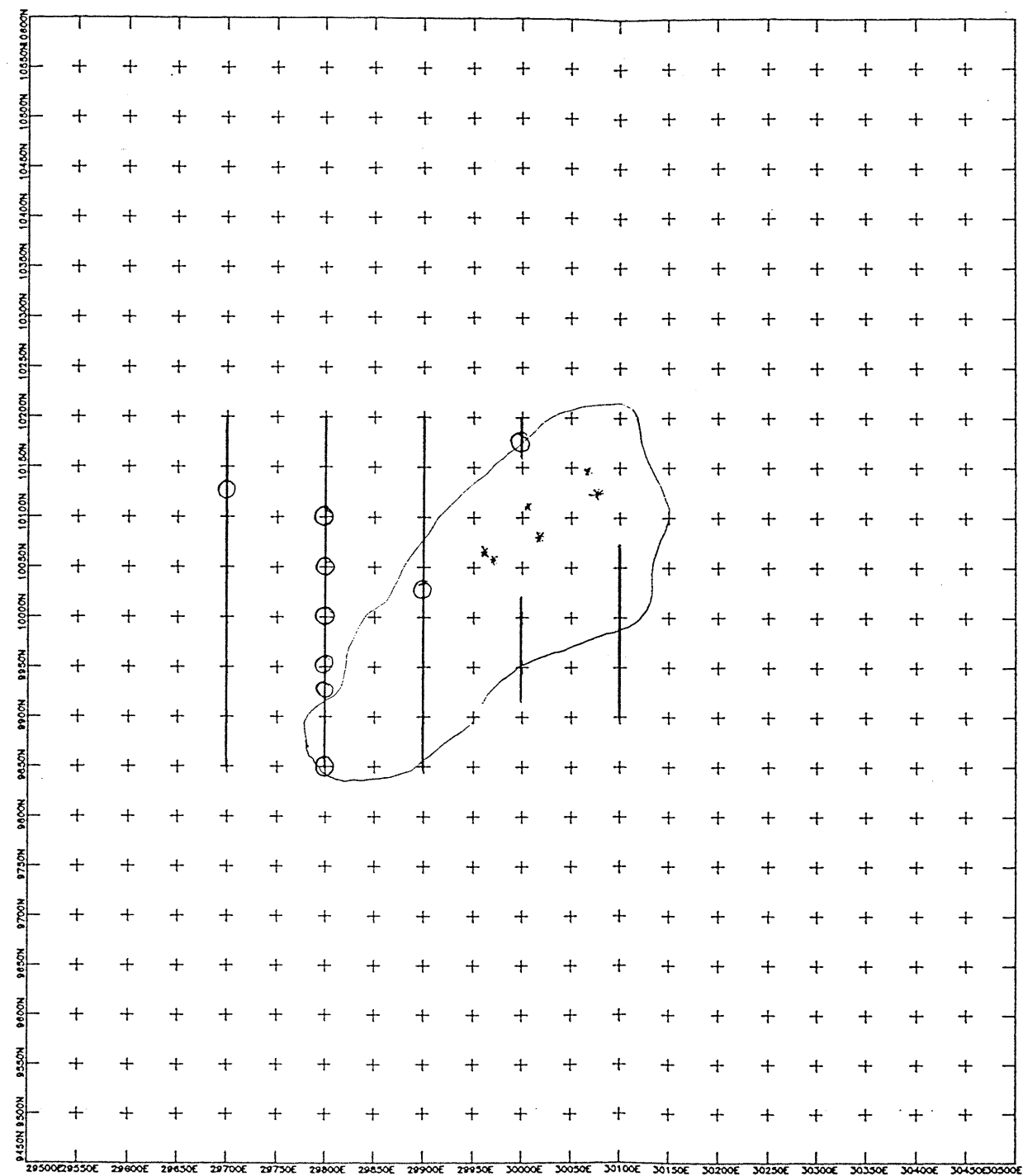
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*Costean Locations
and Position of
Iron Formations.*


COSTEAN LOCATIONS AND POSITION OF IRON FORMATIONS.

 NORTH FLINDERS MINES	
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Current Vacuum Drilling
Coverage - Results Over
7.5ppb Au Circled.

CURRENT VACUUM COVERAGE, RESULTS 7.5ppb Au CIRCLED.

 NORTH FLINDERS MINES	
TANAMI RECONNAISSANCE: NORTHERN TERRITORY	
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