Union Extended

Title Holders	Ian Genat June Genat
Operator	Union Extended
Titles/Tenements	ML's 30214, 30215, 30216, 30217, 30218
Tenement Manager/Agent	None
Mine / Project Name	Union Extended
Authorization Number	0077-05
Report Title	Union Extended Project Amalgamated Annual Report
Group Reporting Number	128
Reporting Period	1st January 2016 to 31st December 2016
Author	Beverley Genat
Target Commodity	Gold
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Datum/Zone	GDA94 / Zone 52
100 000 K mapsheet	Pine Creek 5270
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ATTACHMENTS

1. **Union Extended Expenditure Report, 2016**
2. **Union Extended Project [KML File – open with Google Earth]**

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1.0 EXECUTIVE SUMMARY

This report details activity carried out during 2016 by Ian Genat within the Union Extended Project, ML's 30214, 30215, 30216, 30217 and 30218.

No mining or exploration work was undertaken during the reporting period.

Remedial work was carried out on the raw water dam to reduce seepage.

Some earthworks were done to reshape the oversize dump.

The Union Extended Project is on a care and maintenance regime while surveying and mapping of site infrastructure, historical workings and previous drill intersections of interest are carried out to identify exploration targets.

2.0 LOCATION AND TENURE

The tenements are located 22km North of Pine Creek, in the Union Extended Mine. Access is via a 4km track east from Mt. Wells Road [Goldfields Rd] or an 8km track north from Mt. Wells Road. Two Google Earth based maps are attached, a Project Site Map and a Location Map.

ML 30218 was granted to Ian Genat during 1978.
ML 30216 and ML 30215 were granted during 1983.
ML 30214 was granted during 1984.
ML 30217 was granted during 1987.

3.0 GEOLOGY

The tenements are located within the Pine Creek Geosyncline. The geology consists of sheared shales and siltstone of the Lower Proterozoic Burrell Creek Formation with numerous outcrops of intrusive basalt and dolerite. The sediments generally strike in a north to north-westerly direction and dip steeply to the west. The sediments are strongly sheared in a direction parallel to bedding.

Quartz veins are common in the area. They are generally thin (few mm – 10 cm) but increase in intensity and thickness adjacent to and within the shear zone. Veins of 25 to 50cm thicknesses, and in parallel swarms, are common in the shear zone. Most of the veins strike northeast and dip 40° to 60° to the north-west. The continuity of the veins is poor, with 5 to 10mm long 'pinch and swell' controlled lenses.

The presence of shears and well-developed cleavage has made difficult the recognition of the degree and type of folding in the area. Numerous, tight folds have been mapped both to the east and west of the Union Extended Mine (Stuart-Smith et al., 1981) and it is probable that a similar style of folding exists in the mine area. The parallelism of individual beds that have been recognised suggests that the folding is isoclinal. The presence of isoclinal folds has also been inferred by Shields et al. (1967) in the Union Reefs area, 8 km south of the Union Extended Mine.

4.0 WORK CONDUCTED DURING REPORTING PERIOD

No mining or exploration activities were completed during the reporting period.

During January the sides of the raw water dam wall were raked to clear vegetation in preparation for further applications of the polymer based 'Water$ave Plug'. This resulted in a small reduction in seepage.

Fire breaks were graded and back-burned during April and May.

PC Gold [Springhill Project] continued to use the site for core storage during 2016.

5.0 REHABILITATION

Some further remedial work was carried out on the oversize adjacent to the plant site in ML 30218 while the dozer and grader were on site for wet season maintenance. The oversize area is being re-shaped to promote better re-vegetation.

6.0 PROPOSED WORK PROGRAM

The Union Extended Project is on a care and maintenance regime while surveying and mapping of site infrastructure, historical workings and previous drill intersections of interest are carried out to identify exploration targets.

The seepage from the raw water dam wall will be monitored and further treatment applied as required.

Rehabilitation of the old alluvial plant site in ML 30218 will continue when our earthmoving equipment is available while back on site for maintenance. The covered area housing the power distribution boxes will remain.

The oversize dump adjacent to the alluvial plant area in ML 30218 is being re-shaped to promote better re-vegetation. Further work will be carried out when our earthmoving equipment is available while back on site for maintenance.

The storage of Springhill core will continue during the 2017 exploration program.

7.0 ENVIRONMENTAL DISTURBANCE MINIMISATION

Disturbance is minimised by using existing tracks and working within areas previously cleared, where possible. Roadside drainage is maintained to minimise erosion from water run-off during the wet season. Weeds and fire break zones are sprayed each wet season while there is fresh growth. Fire breaks are maintained by grading, brush cutting and back-burning as soon as possible after the end of the wet season.

8.0 REFERENCES

8.1 Northern Territory Geological Survey Report GS 79/8, by A.W. Newton

8.2 Northern Territory Geological Survey GS 84/3, by Colin Hallenstein.