EL30047 FRASER CREEK FINAL REPORT

HUCKITTA SF5311

Dnieper  5952

Cu,Pb,Zn,Au,Ag,U,Th,RE,P,Fe,Mn,Sn,W,Mo,Ta

Cr,Co,Ni,PGE,Diamonds.

AW MACKIE  May 2015
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1. SUMMARY

EL30047 straddles inferred tectonised NW-trending unconformable boundary of onlapping/overlying Neoproterozoic – Devonian Georgina Basin sediments and Palaeoproterozoic NE Aileron Province metasediment/magmatic intrusive Arunta Region ensialic basement. Detailed geophysical analysis of available open file located digital data in conjunction with GWIS imagery indicates licence area is overlain by a relatively thin veneer of Tertiary Waite Formation with a single NW-trending attenuated strike ridge of mainly Neoproterozoic Grant Bluff Formation quartz arenite dislocated by later ENE trending strike-slip faulting unconformably resting on 1713Ma Mt Swan Granite deemed unprospective for potential economic IOCGU mineralisation.
INTRODUCTION

EL30047 was pegged over a 30km strike length of inferred Neoproterozoic-Palaeoproterozoic tectonised unconformable boundary deemed prospective for potentially economic IOCGU mineralisation located 180km north east of Alice Springs.

LOCATION and ACCESS

EL30047 is located on HUCKITTA access from Alice Springs is north 70km via Stuart Highway then east 110km via Plenty Highway to Macdonald Downs turnoff then north 25km to Dneiper Station and beyond via WNW Macdonald Downs access road across licence area.

TENURE

EL30047 comprising 58 sub blocks(184sqkm) was granted to Gempart(NT)P/L for 6 years 9th May 2014 and surrendered 5th May 2015.

PREVIOUS EXPLORATION Figures 2,2c

1980-83

CRAE P/L conducted a regional heavy mineral drainage sampling program for kimberlitic indicator minerals including microdiamond. Several chromites were recovered of the non kimberlitic variety. A minus 80# geochemical split was taken and analysed for Cu,Pb,Zn,Ag,Co,Cr,U. The HUCKITTA 500m l.s. AMAG/Radiometric geophysical survey was flown 1981, CRAE ground checked about 20 discrete dipolar AMAG anomalies ie follow up drainage/loam sampling, ground magnetometer traverses for potentially diamondiferous kimberlitic intrusions.

2002-2011

MTH/TGNL JV collected 3 geochemical drainage/magnetic lag samples from western end of licence area(total 194) analysed by ALS for 50 elements. They also collected/analysed 28 rockchip samples none of which were from licence area.

Areas 3(Dneiper) and 4(Middle Dam) were flown on 300m spaced flight lines for near surface conductors ie heliborne VTEM time delay electromagnetic survey.
MTH/TGNL JV EL24454,22924 Sampling location/VTEM Summary

EL28837,29994,29995,30007,30047,30064 over MTH/TGNL SAMPLING (1) Drainage/magnetic lag 194(2) Rockchip 28+VTEM Survey Areas 384+Anoms and RIO HOIST EM Survey area Figure 2c
6. GEOLOGY Figs 3,3a

EL30047 straddles the inferred tectonised north west–trending boundary of Tertiary Waite Fm chalcedonic limestone forming a thin unconformable covering over Neoproterozoic Mopunga Group sediments of Georgina Basin sedimentary succession onlapping/overlying(also unconformably) Palaeoproterozoic East Arunta Region Aileron Province Jinka Domain 1713Ma Mt Swan Granite.

EL30047 is mainly overlain by residual soils punctuated by two north west–trending parallel strike ridges of resistant Neoproterozoic Grant Bluff Formation quartz arenite and extensive cropping out Tertiary Waite Formation lacustrine chalcedonic limestone within south west corner of licence area.

![Regional Geology Map](image_url)
7. EXPLORATION PROGRAM

A detailed geophysical prospectivity analysis for potentially economic IOCGU mineralisation using available open file geophysical located digital data was undertaken. Other desktop studies included downloading GWIS Geology, TMI VD, U2Th Ratio, LS714, Ternary Rads, Combined Rads, Potassium, Uranium, Thorium images to assist above prospectivity analysis.

8. EXPENDITURE

1. Ground checking regional mapping of licence area $1500.00
2. Geophysical openfile data prospectivity analysis/GWIS downloads $2500.00
3. Administration $1000.00

TOTAL $5000.00
9. CONCLUSIONS and RECOMMENDATIONS

Basement underlying cropping out Quaternary, Tertiary and Neoproterozoic sediments within EL30047 is geophysically interpreted 1713Ma Mt Swan Granite deemed unprospective for potentially economic IOCGU mineralisation. Consequently EL30047 licence area is surrendered.

10. REFERENCES

Freeman, M.J 1986. HUCKITTA 2nd Edition 250k GEOLOGY Map Sheet and Explanatory Notes NTGS
Harvey, B.E., 1983. CRAE EL2789 ATR NTGS OPEN FILE REPORTS CR83/107,83/294 (unpublished)