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Lithologies mapped in the central White Spur - Dobson Creek area are predominately massive pink and green brecciated felsic lavas which are weakly altered and mostly unmineralized. Some felsic pyroclastic units occur within this sequence and are slightly more altered, particularly towards the north of the area. These rocks are often moderately cleaved and carry very minor disseminated and veinlet sulphides, principally pyrite.

Limited mapping of the western part of White Spur has confirmed the predominance of sedimentary lithologies in this area. Black and grey shales, siltstones, sandstones and greywackes are interspersed with pyroclastic, probable ignimbritic, units. The sequence appears to have been deposited off the flanks of the main volcanic belt in open basin or marine conditions. Although IP, EM and soil geochemical anomalies have been delineated within this area, drill testing has shown them to be due to graphitic, pyritic black shales, elevated base metal background values within argillaceous sediments and narrow mineralized fault structures.

Recent studies of possible gold models within the Mt. Read Volcanic belt have indicated the potential for gold mineralization in this western, predominantly sedimentary, belt. Although no significant gold has been detected during exploration over White Spur, it appears that the western area may not have been adequately evaluated for such mineralization.

8.4.2. Geochemistry:

All mineralized or significantly altered or other interesting rocks were collected and submitted for assay with a representative hand specimen being retained for detailed lithological and possible petrographic study. The results are plotted on Figure 25.

The rock geochemistry results have highlighted the prospective eastern, Jones Creek, area and confirmed the lack of mineralization noted in the central and western parts of White Spur. The best assays were located in the vicinity of DDH JCP 216, where minor disseminated and veinlet sulphides were mapped within an altered