i)   A major sedimentary sequence composed of black shales, sandstones and greywackes, inter-mixed with ignimbritic pyroclastics and probable mass debris deposits;

ii) A prominent sequence of felsic lavas, often brecciated, and massive welded ignimbrites which form the main spine of White Spur;

iii) A series of variably altered pyroclastics, some of which may be reworked, intruded by basaltic dykes;

iv) A distinctive sequence of fine grained tuffaceous shales, siltstones and minor sandstones interbedded with some probable ignimbrites;

v)   A mixed assemblage of massive pyroclastics, felsic porphyritic lavas and basaltic intrusives.

The current investigation has identified the eastern sedimentary sequence and flanking pyroclastic lithologies, east of Jones Creek, as the only part of the White Spur area that has remaining significant exploration potential. Mapping along strike to the north in the adjoining EL 1/62 has outlined a major sedimentary horizon, which is at least 4km long. As such, this sequence of epiclastic rocks delineates one of the largest known sedimentary basins within the central Mt. Read Volcanic sequence on the EL. The horizon appears to terminate south of Howards Road.

The grey shales and coarser tuffaceous units are usually well-bedded and indicate a general NNW strike and steep dips to the west. Both the epiclastic and intervening pyroclastic lithologies are pervasively altered by sericite and are often stained by Fe oxides. The strength of the hydrothermal alteration generally increases in intensity along strike to the north where some outcrops are so altered and deformed that the original rock fabric is completely destroyed. Only minor mineralization has been observed within this sequence, however, the weathered remnants of disseminated sulphides are inferred in places and supported by rock geochemical analyses (See next section).

The horizon has been tested near the southern extremity by drill hole WSP1, completed in 1979. This hole intersected a mixed sequence of tuffaceous sediments, felsic ignimbrites and basic intrusives with