

KAPHALDA BLOCK
MINERAGRAPHIC STUDY RESULTS

Sl. No.	Sample No. & Location	% of ore minerals in polished section	ORE MINERAL COMPOSITION				Description
			Major >5%	Minor <5% - >1%	Accessory <1% - >0.1%	Traces <0.1%	
1.	KPBL/M/01	4	Pyrite (59) Magnetite (40)	Graphitoid (1)	....	....	Pyrite occurs as fine to very fine anhedral grains, patches and specks disseminated throughout the specimen. Magnetite occurs as fine to very fine subhedral to anhedral, bladed and skeletal grains in dissemination. Graphitoid is noted as fine patches in pockets.
2.	KPBL/M/02	3	Magnetite (55) Pyrite (35) Goethite- Hematite (10)	....	Graphitoid	....	Magnetite and pyrite are present as very fine to fine subhedral to anhedral grains and specks in dissemination. Goethite and hematite together occur as intermixed patchy and hairline fillings showing compositional zoning in areas. Graphitoid is noted as fine patches in accessories.
3.	KPBL/M/03	Accessories	Magnetite Pyrite Goethite	....	....	....	Magnetite is noted as very fine grains/ specks in accessories. Pyrite is seen present as very fine specks in traces. Goethite occurs as fine to very fine anhedral patches.
4.	KPBL/M/04	1	Magnetite (92) Pyrite (5)	Goethite (3)	Graphitoid	Chalcopyrite	Magnetite occurs as fine to very fine subhedral to anhedral grains, blades and skeletal grains. Pyrite occurs as very fine specks and as streaks in areas. Goethite is present as very fine hairline fillings. Graphitoid is noted as very fine to fine patches in accessories. Chalcopyrite is found present as very

							fine specks in traces.
5.	KPBL/M/05	2	Magnetite (100)	....	....	Pyrite Hematite Chalcopyrite	Magnetite occurs as fine to very fine subhedral to anhedral, bladed and skeletal grains in dissemination. Pyrite, chalcopyrite and hematite are seen present as very fine specks in traces.
6.	KPBL/M/06	3	Magnetite (67) Pyrite (30)	Graphitoid (2) Hematite (1)	....	....	Magnetite and pyrite are present as very fine to fine subhedral to anhedral grains and specks in dissemination. Graphitoid is noted as fine to very fine patches. Hematite is noted as very fine specks.
7.	KPBL/M/07	2	Magnetite (80) Pyrite (10) Goethite (6)	Hematite (2) Chalcopyrite (1) Graphitoid (1)	....	....	Magnetite occurs as very fine subhedral to anhedral, bladed and skeletal grains in dissemination. Pyrite occurs as very fine disseminated specks. Goethite is seen present as very fine hairline fillings. Hematite and chalcopyrite are noted as very fine specks, where chalcopyrite is being replaced by goethite fillings in areas. Graphitoid is seen present as fine to very fine anhedral and segregated patches.
8.	KPBL/M/08	4	Pyrite (82) Magnetite (17)	Graphitoid (1)	Hematite	....	Pyrite occurs as very fine specks and as very fine to fine subhedral to anhedral grains disseminated throughout the specimen. Magnetite occurs as very fine to fine subhedral to anhedral, bladed and as skeletal grains. Graphitoid is present as fine to very fine anhedral patches. Hematite is noted as very fine specks in traces.
9.	KPBL/M/09	5	Pyrite (85) Magnetite (12)	Graphitoid (3)	....	....	Pyrite occurs as very fine to fine disseminated specks, subhedral to anhedral grains, segregated patches and as intrusive veins/ veinlets. Magnetite is present as very fine subhedral to anhedral, bladed and skeletal grains in the assemblage. Graphitoid is seen present as fine to very fine streaky fillings.
10.	KPBL/M/10	2	Magnetite (90) Goethite (8)	Graphitoid (1) Hematite (1)	....	Pyrite Chalcopyrite	Magnetite is present as very fine to fine subhedral to anhedral, bladed and skeletal grains in

							dissemination. Goethite occurs as very fine hairline fillings. Graphitoid is noted as fine anhedral patches. Hematite occurs as very fine specks. Pyrite and chalcopryrite is noted as very fine isolated specks in traces.
--	--	--	--	--	--	--	---