

"BIG HORN
~~ADIT~~"

104M / 9W.

JUNE 27 1982
59°32'N 134°27'W

LOCATION WEST SIDE OF BIG HORN CREEK ON CLAIM
TONYA 2 (LAPSED NOV/81)

DEVELOPMENT

THREE ADITS - MAIN ADIT ABOUT 100 FEET? ABOVE CREEK LEVEL. TOP ADIT ABOUT 100 FEET BELOW TOP OF RIDGE. MIDDLE ADIT APPROXIMATELY MIDWAY WITH ALL THREE PRESUMABLY ON SAME STRUCTURE. TOP ADIT WAS ONLY ONE EXAMINED TRENDS 275° FOR APPROX 30 FEET AND FOLLOWS RELATIVELY STRONG VERTICAL QUARTZ VEIN WHICH IS 20" TO 30" WIDE.

GEOLOGY

THIN BEDDED IMPURE QUARTZITES TEND ~~TO~~ NORTH AND DIP 30° EAST. ~~ARE~~ GENERALLY LIGHT TO GREY IN COLOR WITH MINOR PYRITE GIVING OVERALL RUSTY COLOR. INTRUDED BY SMALL BASIC ("LAMPROPHYRE") DYKE WHICH IS FRACTURED AND MINERALIZED WITH PYRITE. ALSO INTRUDED BY DARK GREY CROWDED FELDSPAR PORPHYRY WITH WHITE PHENOCRYSTS.

MAIN QUARTZ VEIN TRENDS 275°/90° AT UPPER ADIT BUT CANNOT BE EASILY TRACED UPHILL. THIS VEIN ZONE, OR OTHER PARALLEL VEINS IN THE SOUTH WALL PROVIDE SIMILAR MATERIAL TO THE TOP OF THE HILL. VEINS VARY UP TO 30" IN WIDTH AND CONSIST OF WHITE TO SLIGHTLY GLASSY QUARTZ WITH SOME GREY RIBBON QUARTZ OR MINERALIZED SHEAR MATERIAL ON NORTH WALL. WALLS ARE ~~FREE~~ FREE AND WALL ROCK COMPETENT.

MINERALIZATION

PYRITE IS THE MOST COMMON SULPHIDE OCCURRING AS FINELY DISSEMINATED CUBES OF ABOUT 1mm UP TO IRREGULAR BLED3 OF LIGHT COLOR, POSSIBLY MARCASITE, UP TO 1/4"

SOME PREGGSON DUMP SHOW ~~ARE~~ PYRITE, OR MARCASITE, WITH

SMALL STRINGER LIKE ~~THIN~~ BANDS OF GALENA AND A DARK TO BLACK MINERAL (FIRST ASSUMED TO BE SPHALERITE) WHICH LOOKS LIKE MAGNETITE ON WEATHERED SURFACE. FAIRLY SOFT? AND BRITTLE WITH LIGHT GRAY STREAK. VERY MINOR CHALCOPYRITE.

SUMMARY

AN APPARENTLY MODERATELY STRONG VERTICAL QUARTZ VEIN STRIKES WESTERLY THROUGH EAST DIPPING QUARTZITES. THREE ADITS EXIST AND REMAINS OF AN OLD TRAM LINE FROM THE BOTTOM ADIT REMAIN. PYRITE WITH MINOR GALENA, SPHALERITE? AND CHALCOPYRITE OCCUR IN THE QUARTZ. GRADE WOULD NEED TO BE HIGH FOR PRESENT DAY MINING. BUT ACCESS IS REASONABLY GOOD. THERE IS NO SIGNIFICANT TIMBER. WATER IS AVAILABLE FROM A CASCADING STREAM A SHORT DISTANCE TO THE NORTH.

MISC

PREVIOUSLY STAKED BY KARL GRUBER, WHITEHORSE
EXAMINED JUNE 1967 BY ED MULLER FOR EGIL LINGARD