DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE REPORT
82-54

Topographic base from Aerial Mapping Co., Boise for Duval Corporation, 1962

APPROXIMATE MEAN DECLINATION, 1982

SCALE 1:4,800

1000 0 1000 FEET

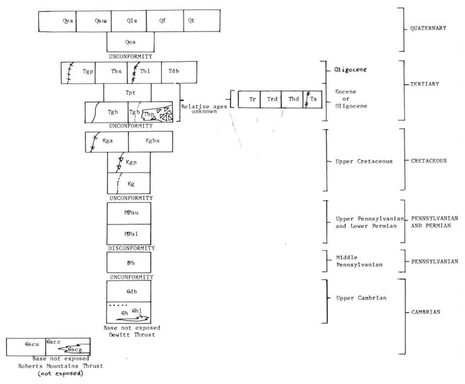
200 0 200 METERS

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

AREA OF MAP

Geology by T.G.Theodore, 1978-1981

CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

Qya YOUNGER ALLUVIUM

Qsw SLOPEWASH DEPOSITS

Qls LANDSLIDE DEPOSITS

Qf FANGLOMERATE DEPOSITS

Qt TALUS

Qoa OLDER ALLUVIUM

Tgp GRANODIORITE PORPHYRY

Tib INTRUSION BRECCIA

Thl INTRUSIVE HORNBLENDE LATITE

Tdh DIABASE

Tpt PORPHYRITIC TONALITE

Tgh GRANITIC ROCKS OF HILL 6010

Tgb GRANITIC ROCKS OF THE BLUFF AREA

Thp BRECCIA PIPE

Tr INTRUSIVE RHYOLITE

Trd INTRUSIVE RHYODACITE

Thd INTRUSIVE HORNBLENDE DIORITE

Ta INTRUSIVE ANDESITE

GRANITIC COMPLEX OF THE BUCKINGHAM CAMP AREA

Kga Granite aplite

Kgbx Breccia pipe

Kgp Porphyritic granite

Kg Equigranular granite

ANTLER PEAK LIMESTONE

P PPau Upper member

P PPal Lower member

PPb BATTLE FORMATION

Ꞓdb DIABASE

HARMONY FORMATION

Ꞓh Undifferentiated--Mostly feldspathic sandstone and quartz arenite; marker beds of pebbly quartzite shown as series of dots

Ꞓhl Limestone

SCOTT CANYON FORMATION--Fossils identified in Roberts (1964) suggested that the formation was early and middle Cambrian in age. However, radiolarians of Devonian age have been found in chert collected from Scott Canyon (Jones and others, 1978)

Ꞓscu Undifferentiated--Includes greenstone, chert, argillite, limestone, and shale

Ꞓscc Mostly chert and argillite

Ꞓscg Mostly greenstone

CONTACT--Queried where location uncertain

FAULT--Showing dip and bar and ball on side of downdropped block; long dashed where approximately located; short dashed where inferred; queried where location uncertain; dotted where concealed

THRUST FAULT--Showing dip. Long dashed where approximately located; short dashed where inferred; queried where location uncertain; dotted where concealed

GLIDE FAULT--Showing dip. Dashed where approximately located; queried where location uncertain; dotted where concealed

FAULT BRECCIA

MARKER BED OF PEBBLY QUARTZITE IN HARMONY FORMATION (unit Ꞓh)

DIKE OF GRANODIORITE PORPHYRY (unit Tgp)

DIKE OF INTRUSIVE HORNBLENDE LATITE (unit Thl)

DIKE OF GRANITIC ROCKS OF THE BLUFF AREA (unit Tgb)

DIKE OF INTRUSIVE APLITE (unit Kga) OF GRANITIC COMPLEX OF THE BUCKINGHAM CAMP AREA

DIKE OF PORPHYRITIC GRANITE (unit Kgp) OF GRANITIC COMPLEX OF THE BUCKINGHAM CAMP AREA

DIKE OF EQUIGRANULAR GRANITE (unit Kg) OF GRANITIC COMPLEX OF THE BUCKINGHAM CAMP AREA

QUARTZ VEIN SHOWING STRIKE

APPROXIMATE LOCATION OF OUTER LIMIT OF EPIGENETIC ALTERATION SHOWN BY RECRYSTALLIZATION OF FELDSPATHIC SANDSTONE AND QUARTZ ARENITE OF THE HARMONY FORMATION TO BIOTITE HORNFELS--Hachures on side of altered rock; queried where location uncertain

OUTER LIMIT OF ABUNDANT QUARTZ STOCKWORKS--Queried where location uncertain; dotted where concealed

AREA OF SKARN

STRIKE AND DIP OF BEDDING

Inclined, facing generally not known

Vertical

Overturned

Horizontal

Anticline--Showing trace of axial plane and plunge of axis. Dashed where approximately located; short dashed where inferred

Syncline--Showing trace of axial plane. Dashed where approximately located; short dashed where inferred

Overturned anticline--Showing trace of axial plane. Dashed where approximately located; queried where location uncertain

Overturned syncline--Showing trace of axial plane

Minor anticline--Showing trend and plunge

Minor syncline--Showing trend and lunge

STRIKE AND DIP OF DOMINANT SET OF QUARTZ VEINS

Inclined

Vertical

Minor overturned fold, showing trend and plunge

Open cut

Mine dump

REFERENCES

Jones, D. C., Wrucke, C. T., Holdsworth, Brian, and Sucsek, C. A., 1978, Revised ages of chert in the Roberts Mountains allochthon, northern Nevada [abs.]: Geological Society of America Abstracts with Programs, v. 10, no 3, p. 111.

Roberts, R. J., 1964, Stratigraphy and structure of the Antler Peak quadrangle, Humboldt and Lander Counties, Nevada: U.S. Geological Survey Professional Paper 459-A, p. A1-A93.

PRELIMINARY GEOLOGIC MAP OF THE BUCKINGHAM CAMP-COPPER BASIN AREA, LANDER COUNTY, NEVADA

by

Ted G. Theodore

1982

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.