T 20 S

T 21 S

R 17 E

T 21 S

T 22 S

SYMBOLS

Contact between rock units
(Dotted lines along contacts represent spheriçule zones in welded tuffs, marker units in sedimentary rocks)

Welded tuff interbeds in the Fort Crittenden Fm.

Chert pebble conglomerate in Earp Fm.

Strike & Dip of bedding
(Arrow shows trend & plunge of lineation)

Strike & Dip of foliation in volcanic rocks

Strike & Dip of fracture sets, complete end bars indicate vertical fractures

Anticlinal Axis (Showing plunge direction)

Synclinal Axis

Fault – Dashed where inferred, dotted where concealed, showing displacement direction

ROCK UNITS

CENOZOIC	QUATERNARY	Qal	Alluvium
	TERTIARY	Qtl s	Tufa Limestone
		Tal	Alluvium
		Tg	Gravel (Cemented)
		Ti	Intrusive Rocks
MESOZOIC	CRETACEOUS	Kma	Trachyandesite of Meadow Valley
		Kv	Undiff. Volcanic Rocks
		Kfc	Fort Crittenden Fm.
		Kbc	Cintura Fm. (BISBEE GRP.)
	JURASSIC	Jc	Conglomerate – Includes various clast types, various sizes & shapes, usually reddish
		Jms	Mudstone – Includes shale; sandstone interbeds, usually bright red or purple
		Jss	Sandstone – Includes clean, crossbedded ss & conglomeratic ss normally red or orange
		Jf pr pk rd gy br	Welded ash flow Tuff pr: purple pk: pink rd: red gy: grey br: brown, tan
		Jfb	Volcanic Flow Breccia
		Jb	Volcanic Breccia
		Jf rd	Lava Flow rd: red
		Jtu	"Upper" Canelo Hills Volcanics
			MOUNT HUGHES FORMATION
PALEOZOIC	PERMIAN	Prv	Rain Valley Fm.
		Pc ch	Concha Fm. ch: very cherty zone
		Ps s m	Sherrer Fm.
	PENNSYLVANIAN	Pce	Colina & Epitaph Fm.
		IPe	Earp Fm.
		IPh	Horquilla Fm.
	MISSISSIPPIAN	Me	Escabrosa Limestone
	DEVONIAN	Dm	Martin Fm.
	CAMBRIAN	Ca	Abrigo Fm.

FIGURE 2
GEOLOGIC MAP

NORTHERN CANELO HILLS

SANTA CRUZ COUNTY, ARIZONA

SHOWING LITHOLOGIES WITHIN THE MOUNT HUGHES FORMATION

CHARLES F. KLUTH
1981

SCALE 1:24000

1 MILE