



CORRELATION OF MAP UNITS									
Qa	Qb	Qc	Qd	Qe	Qf	Qg	Qh	Holocene	
Qj	Qk	Ql	Qm	Qn	Qo	Qp	Qq	Qr	Qs
Qt	Qu	Qv	Qw	Qx	Qy	Qz	Qaa	Qab	Qac
Qad	Qae	Qaf	Qag	Qah	Qai	Qaj	Qak	Qal	Qam
Qan	Qao	Qap	Qaq	Qar	Qas	Qat	Qau	Qav	Qaw
Qax	Qay	Qaz	Qba	Qbb	Qbc	Qbd	Qbe	Qbf	Qbg
Qbh	Qbi	Qbj	Qbk	Qbl	Qbm	Qbn	Qbo	Qbp	Qbq
Qbr	Qbs	Qbt	Qbu	Qbv	Qbw	Qbx	Qby	Qbz	Qca
Qcb	Qcc	Qcd	Qce	Qcf	Qcg	Qch	Qci	Qcj	Qck
Qcl	Qcm	Qcn	Qco	Qcp	Qcq	Qcr	Qcs	Qct	Qcu
Qcv	Qcw	Qcx	Qcy	Qcz	Qda	Qdb	Qdc	Qdd	Qde
Qdf	Qdg	Qdh	Qdi	Qdj	Qdk	Qdl	Qdm	Qdn	Qdo
Qdp	Qdq	Qdr	Qds	Qdt	Qdu	Qdv	Qdw	Qdx	Qdy
Qdz	Qea	Qeb	Qec	Qed	Qee	Qef	Qeg	Qeh	Qei
Qej	Qek	Qel	Qem	Qen	Qeo	Qep	Qeq	Qer	Qes
Qet	Qeu	Qev	Qew	Qex	Qey	Qez	Qfa	Qfb	Qfc
Qfd	Qfe	Qff	Qfg	Qfh	Qfi	Qfj	Qfk	Qfl	Qfm
Qfn	Qfo	Qfp	Qfq	Qfr	Qfs	Qft	Qfu	Qfv	Qfw
Qfx	Qfy	Qfz	Qga	Qgb	Qgc	Qgd	Qge	Qgf	Qgg
Qgh	Qgi	Qgj	Qgk	Qgl	Qgm	Qgn	Qgo	Qgp	Qgq
Qgr	Qgs	Qgt	Qgu	Qgv	Qgw	Qgx	Qgy	Qgz	Qha
Qhb	Qhc	Qhd	Qhe	Qhf	Qhg	Qhi	Qhj	Qhk	Qhl
Qhm	Qhn	Qho	Qhp	Qhq	Qhr	Qhs	Qht	Qhu	Qhv
Qhw	Qhx	Qhy	Qhz	Qia	Qib	Qic	Qid	Qie	Qif
Qig	Qih	Qij	Qik	Qil	Qim	Qin	Qio	Qip	Qiq
Qir	Qis	Qit	Qiu	Qiv	Qiw	Qix	Qiy	Qiz	Qja
Qjb	Qjc	Qjd	Qje	Qjf	Qjg	Qjh	Qji	Qjk	Qjl
Qjm	Qjn	Qjo	Qjp	Qjq	Qjr	Qjs	Qjt	Qju	Qjv
Qjw	Qjx	Qjy	Qjz	Qka	Qkb	Qkc	Qkd	Qke	Qkf
Qkg	Qkh	Qki	Qkj	Qkl	Qkm	Qkn	Qko	Qkp	Qkq
Qkr	Qks	Qkt	Qku	Qkv	Qkw	Qkx	Qky	Qkz	Qla
Qlb	Qlc	Qld	Qle	Qlf	Qlg	Qlh	Qli	Qlj	Qlk
Qll	Qlm	Qln	Qlo	Qlp	Qlq	Qlr	Qls	Qlt	Qlu
Qlv	Qlv	Qlw	Qlx	Qly	Qlz	Qma	Qmb	Qmc	Qmd
Qme	Qmf	Qmg	Qmh	Qmi	Qmj	Qmk	Qml	Qmm	Qmn
Qmo	Qmp	Qmq	Qmr	Qms	Qmt	Qmu	Qmv	Qmw	Qmx
Qmy	Qmz	Qna	Qnb	Qnc	Qnd	Qne	Qnf	Qng	Qnh
Qni	Qnj	Qnk	Qnl	Qnm	Qnn	Qno	Qnp	Qnq	Qnr
Qns	Qnt	Qnu	Qnv	Qnw	Qnx	Qny	Qnz	Qoa	Qob
Qoc	Qod	Qoe	Qof	Qog	Qoh	Qoi	Qoj	Qok	Qol
Qom	Qon	Qoo	Qop	Qoq	Qor	Qos	Qot	Qou	Qov
Qow	Qox	Qoy	Qoz	Qpa	Qpb	Qpc	Qpd	Qpe	Qpf
Qpg	Qph	Qpi	Qpj	Qpk	Qpl	Qpm	Qpn	Qpo	Qpp
Qpq	Qpr	Qps	Qpt	Qpu	Qpv	Qpw	Qpx	Qpy	Qpz
Qqa	Qqb	Qqc	Qqd	Qqe	Qqf	Qqg	Qqh	Qqi	Qqj
Qqk	Qql	Qqm	Qqn	Qqo	Qqp	Qqq	Qqr	Qqs	Qqt
Qqu	Qqv	Qqw	Qqx	Qqy	Qqz	Qra	Qrb	Qrc	Qrd
Qre	Qrf	Qrg	Qrh	Qri	Qrj	Qrk	Qrl	Qrm	Qrn
Qro	Qrp	Qrq	Qrr	Qrs	Qrt	Qru	Qrv	Qrw	Qrx
Qry	Qrz	Qsa	Qsb	Qsc	Qsd	Qse	Qsf	Qsg	Qsh
Qsi	Qsj	Qsk	Qsl	Qsm	Qsn	Qso	Qsp	Qsq	Qsr
Qss	Qst	Qsu	Qsv	Qsw	Qsx	Qsy	Qsz	Qta	Qtb
Qtc	Qtd	Qte	Qtf	Qtg	Qth	Qti	Qtj	Qtk	Qtl
Qtm	Qtn	Qto	Qtp	Qtq	Qtr	Qts	Qtt	Qtu	Qtv
Qtw	Qtx	Qty	Qtz	Qua	Qub	Quc	Qud	Que	Quf
Qug	Quh	Qui	Quj	Quk	Qul	Qum	Qun	Quo	Qup
Quq	Qur	Qus	Qut	Quv	Quw	Qux	Quy	Quz	Qva
Qvb	Qvc	Qvd	Qve	Qvf	Qvg	Qvh	Qvi	Qvj	Qvk
Qvl	Qvm	Qvn	Qvo	Qvp	Qvq	Qvr	Qvs	Qvt	Qvu
Qvv	Qvw	Qvx	Qvy	Qvz	Qwa	Qwb	Qwc	Qwd	Qwe
Qwf	Qwg	Qwh	Qwi	Qwj	Qwk	Qwl	Qwm	Qwn	Qwo
Qwp	Qwq	Qwr	Qws	Qwt	Qwu	Qwv	Qww	Qwx	Qwy
Qwz	Qxa	Qxb	Qxc	Qxd	Qxe	Qxf	Qxg	Qxh	Qxi
Qxj	Qxk	Qxl	Qxm	Qxn	Qxo	Qxp	Qxq	Qxr	Qxs
Qxt	Qxu	Qxv	Qxw	Qxx	Qxy	Qxz	Qya	Qyb	Qyc
Qyd	Qye	Qyf	Qyg	Qyh	Qyi	Qyj	Qyk	Qyl	Qym
Qyn	Qyo	Qyp	Qyq	Qyr	Qys	Qyt	Qyu	Qyv	Qyw
Qyx	Qyz	Qza	Qzb	Qzc	Qzd	Qze	Qzf	Qzg	Qzh
Qzi	Qzj	Qzk	Qzl	Qzm	Qzn	Qzo	Qzp	Qzq	Qzr
Qzs	Qzt	Qzu	Qzv	Qzw	Qzx	Qzy	Qzz		

**DESCRIPTION OF MAP UNITS**

Qa ALLUVIUM (HOLOCENE)—Stream-laid deposits of gravel, sand, silt, and clay in valley bottoms; alluvium in forest-covered areas not distinguished.

Qb SWAMP DEPOSITS (HOLOCENE)—Clay, silt, and fine sand, dark-gray and brown; rich in vegetal debris.

Qc ALLUVIAL FAN DEPOSITS (HOLOCENE AND PLEISTOCENE)—Rudely stratified gravel, sand, silt, and clay spread outward from mouths of canyons; shows linear sorting along distributaries; finer grained debris becomes progressively more abundant toward downstream margins of fans.

Qd OUTWASH GRAVEL (HOLOCENE AND PLEISTOCENE)—Gravel deposited along flood plains of major streams; composed chiefly of quartzite and volcanic rock fragments.

Qe LANDSLIDE DEBRIS (HOLOCENE AND PLEISTOCENE)—Chaotically mixed boulders and finer grained rock debris emplaced by mass movement.

Qf LANDSLIDE AND GLACIAL DEBRIS (HOLOCENE AND PLEISTOCENE)—Landslide and glacial debris so completely intermixed that they cannot be mapped separately.

Qg TALUS (HOLOCENE AND PLEISTOCENE)—Locally derived coarse angular rock fragments that accumulated on steep slopes and at the base of cliffs.

Qh SLIMP BLOCKS (HOLOCENE AND PLEISTOCENE)—Coherent masses of bedrock that have moved downslope.

Qj HORIZONTAL DEBRIS OF YOUNGEST MOUNTAIN GLACIATION (PLEISTOCENE)—Till and associated glacial debris with conspicuous medial form still preserved; deposited by ice that moved south from Yellowstone National Park.

Qk UNDIFFERENTIATED GLACIAL DEBRIS (PLEISTOCENE)—Medial debris deposited by southward-moving ice from Yellowstone National Park; most is older and has more subdued topography than deposits mapped as Qj.

Ql HOLLOWED-OUT RING TYPE OF YELLOWSTONE GROUP (PLEISTOCENE)—Rhyolite ash flows, brown, welded; blank vitrophyric welded tuff at base. Thickness more than 400 feet (122 m) in some places.

Qm PYROXENE ANDERITE AND BASALT OF DORLAND LAKE (PLEISTOCENE)—Wet andesite is gray to brown, slabby to massive. Basalt is black to dark green and some may be older or younger than andesite. Andesite has a K-Ar age of 2 m.y. (million years).

Qn UNNAMED SCORIA (QUATERNARY OR TERTIARY)—Scoria, dull-orange, pebbly; dark-brown matrix. Conglomerate at base. Thickness 50 feet (15 m).

Qo BASALT OF UNCERTAIN AGE (QUATERNARY OR TERTIARY)—Basalt, red and brown, intruded into Virginia Formation.

Qp COLETER FORMATION (Eocene)—Sandstone, light-gray, buffaceous, soft, poorly cemented; massive to irregularly bedded. Thickness about 500 feet (150 m).

Qq WHITE RIVER FORMATION (OLIGOCENE)—Claystone, siltstone, and tuff, white, massive, brittle. Thickness more than 100 feet (30 m).

Qr WIGGINS FORMATION (Eocene)—Volcanic conglomerate, brown and gray, water-laid; consists chiefly of mafic andesite and basalt boulders in a gray coarse gravel tuff matrix. Thickness 1,000 feet (305 m) or more.

Qs BASALT BRECCIA (Eocene)—Red, brown, and purple basaltic breccia of large and small angular fragments in matrix of same type of material; some dikes and flows; may be an upper facies of the Langford Formation. Thickness 400 feet (122 m) or more.

Base from U.S. Geological Survey, 1:62,500, 1959

U.S. Geological Survey  
OPEN FILE REPORT  
This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

GEOLOGIC MAP OF THE SOUTH HALF OF THE MOUNT HANCOCK QUADRANGLE, TETON COUNTY, WYOMING

By  
J. D. Love  
1974

Geology mapped in 1965-73 by J. D. Love, assisted by R. K. Howe, 1968-69, J. L. Wertz, 1968-69, 1966-68 and 1971, and J. C. Antweiler, 1966-68 and 1972-73

