

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

**PRELIMINARY GEOLOGIC MAP EMPHASIZING
BEDROCK FORMATIONS IN ALAMEDA COUNTY,
CALIFORNIA: A DIGITAL DATABASE**

By

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Table 4 - Line Types Recorded in the LTYPE Field

contact, certain
contact, concealed
contact, approx. located
contact, inferred
fault, certain
fault, approx. located
fault, concealed
fault, concealed, queried
fault, inferred
fault, inferred, queried
s.s. fault, r.l., approx. located
s.s. fault, r.l., certain
s.s. fault, r.l., concealed
thrust fault, approx. located
thrust fault, certain
thrust fault, concealed
thrust fault, concealed, queried
tuff bed
water boundary
map boundary

The geologic linetypes are ALACARTE line types that correlate with the geologic line symbols in the ALACARTE line set GEOL61.LIN according to the ALACARTE lines lookup table (GEOL61.LUT). Note that fault and s.s. fault, r.l. are assigned the same symbol in the lookup table.

Areas -

Map units (polygons) are described in the polygon attribute table (Table 5) The identities of the map units from compilation sources are recorded in the PTYPE field by map label (Table 6). Map units are described more fully in the accompanying text file algeo.txt. Note that ARC/INFO coverages cannot contain both point and polygon information, so only coverages with polygon information (al_um-py, al_so, al_as) will have a polygon attribute table, and these coverages will not have a point attribute table.

Table 5 - Content of the Polygon Attribute Tables

ITEM NAME	WIDTH	OUTPUT	TYPE	N. DEC	
AREA	4	12	F	3	area of polygon in square meters
PERIMETER	4	12	F	3	length of perimeter in meters
<coverage>#	4	5	B		unique internal control number
<coverage>-ID	4	5	B		unique identification number
PTYPE	35	35	C		unit label
SEL	1	1	I		user defined field used to save a selected set
SYMB	3	3	I		user defined field used to save symbol assignments (such as color)

Table 6 - Map Units

(See algeo.txt for descriptions of units)

.	Kel	Tbp
JKf	Kjm	Tbr
JKfe	Kkh	Tc
JKfg	Ko	Tcc
JKfgm	Kp	Tccs
JKfm	Kr	Tcs
JKfn	Ksc	Tes
JKfs	Ksh	Tgvt
JKgd	Kslt	Tgvt?
JKk	Kss	Tgvtt
JKkc	Ksu	Th
JKkv	Ksuh	Tlp
Jb	Ksus	Tmb
Jgb	Ku	Tmll
Jpb	QTi	Tmls
Jsv	QTl	Tn
Kbsh	QTl?	Tnc
Kc	Qa	To
Kcl	Qls	To?
Kcls	Qoa	Tol
Kcm	Qt	Tor
Kcu	Qu	Torv
Kcu?	Tbd	Tps
Kcus	Tbe	Tr
Kd	Tbf	Tro
Kds	Tbg	Ts
Keh	Tbgc	Tsh
Keh?	Tbgl	Tso?
	Tbi	Tsos?

Tss	Tts	fm
Tst	Tus	fs
Tsv	Tush	gb
Tt	Tusl	sc
Tt?	Tv	sp
Tte	fc	sp?
Ttem	fg	
Ttls	fl	

Points -

Point information (strikes and dips) is recorded as coordinate and related information and are described in the Point Attribute Table (Table 7). Note that ARC/INFO coverages cannot contain both point and polygon information, so only coverages with point information (al_um-sr) will have a point attribute table, and these coverages will not have a polygon attribute table.

Table 7 - Content of the Point Attribute Tables

ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC	
AREA	4	12	F	3	this field is not used
PERIMETER	4	12	F	3	this field is not used
<coverage>#	4	5	B		unique internal control number
<coverage>-ID	4	5	B		unique identification number
PTTYPE	35	35	C		point type (see Table 8).
DIP	3	3	I		dip angle in degrees
STRIKE	3	3	I		strike angle in degrees
SEL	1	1	I		user defined field used to save a selected set
SYMB	3	3	I		user defined field used to save symbol assignments (such as color)

Table 8 - Point Types Recorded in the PTTYPE Field

- approx bedding
- bedding
- bedding w/ tops
- crumpled bedding
- crumpled foliation
- flat bedding
- foliation
- foliation and bedding
- joint
- ot bedding
- ot bedding w/ tops
- vert bedding
- vert bedding w/ tops

vert foliation
vert foliation and bedding

Routes -

In the fault map coverage (al_um-flt), strands (individual arcs) of named faults are grouped together into routes, and fault names and related information are stored in the Route Attribute Table (Table 9). The route system or subclass is named FAULT.

Table 9 - Content of the Route Attribute Tables

ITEM NAME	WIDTH	OUTPUT	TYPE	N. DEC
<subclass>#	4	5	B	unique internal control number
<subclass>-ID4		5	B	unique identification number
FNAME	35	35	C	fault name

Table 10 - Fault Names Recorded in the FNAME Field

Arroyo Aguague fault
Calaveras fault
Chabot fault
Dresser fault
Greenville fault
Hayward fault
Las Positas fault
Mill Creek fault
Miller Creek fault
Mission fault
Moraga fault
Palomares fault
Pirate Creek fault
Sheridan Creek fault
South Las Positas fault
Stonybrook fault
Verona fault
Warm Springs fault
Williams fault

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