SCALE 1:62500

1 ½ 0 1 2 3 4 MILES

3000 1500 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 5 0 1 2 3 4 5 KILOMETERS

U.S. GEOLOGICAL SURVEY
OPEN FILE MAP

References:
Woodring, W.P., Stewart, R., and Richards, R.W., 1940, U.S.Geol. Surv. Prof. paper 195. Stewart, R., 1946, U.S.G.S. Prof. paper 62. Marsh, O.T., 1960, Calif. Div. Mines Spec. Rept. 62. Dickinson, W.R. 1966, Bull. Geol. Soc. Amer. v. 77 (May and July)

Geology by T. W. Dibblee Jr. 1966, 1967 and modified after Woodring and others, 1940 (Kettleman Hills) Stewart, 1946 (Reef Ridge) Marsh, 1960 and Dickinson, 1966 (southwest part)

Qa
Alluvium

Qls | Qs
Landslide rubble
Qls, sh. and ss. rubble
Qs, serpentine rubble

Qoa
Older alluvium
UNCONFORMITY

QTt
Tulare Form.
terrest. gravel, sand and clay

Tsj
San Joaquin Form.
(brackish marine clay, silt, sand)

Te | Teb
Etchegoin Form.
(marine strata)
Te, sandst. & siltstone
Teb, blue sandstone

Tr
Reef Ridge Shale
(marine clay shale)

Tm | Tm.i | Tm.d
Monterey Shale
(marine shale)
Tm, Mc Lure Siliceous Shale Member
Tmp, Polomio Sandst. Lentil of Marsh
Tmi, siltstone lentil
Tmd, Devilwater Clay Shale Member

Tt | Ttc
Temblor Sandstone
Ttc - clay shale
UNCONFORMITY

Tpr
Point of Rocks Sandstone

Tk
Kreyenhagen Shale

Ta
Avenal Sandstone

Ti
Lodo Fm.
(claystone; in subsurface only, not exposed)
UNCONFORMITY

Kp | Kps | Kpss | Kpc
Panoche Formation
Kp, clay shale
Kps, sandstone and interb'd shale
Kpss, sandstone
Kpc, conglomerate

Kgf
Gravelly Flat Fm. of Rose & Colburn, 1963 (dark shale, thin sandstones)
DEPOSITIONAL OR FAULT CONTACT

sp
Serpentine

f fc fg
Franciscan Rocks
Shale, graywacke, greenstone, chert, jasper, glaucophane rock, mixed and shear
fc, chert
fg, greenstone

QUATERNARY — Holocene; Pleistocene ?
TERTIARY — Pliocene; Miocene; Oligocene ?; Eocene; Paleocene ?
CRETACEOUS — Upper; Lower ?
JURASSIC? & CRETACEOUS ?

Contact
Dashed where gradational or approximately located

U / D — Fault
Dashed where doubtful
Dotted where concealed
U, Upthrown side
D, Downthrown side
Arrows indicate horizontal movement

Anticline — Syncline
Axis of fold, showing direction of plunge

Horizontal
30 Inclined
Vertical
70 Overturned
Strike and dip of strata

Abandoned well drilled for oil or gas

THIS MAP IS PRELIMINARY AND HAS NOT BEEN EDITED OR REVIEWED FOR CONFORMITY WITH U.S. GEOLOGICAL SURVEY STANDARDS

Drafted by Gertrude J. Edmonston

MAPPED & COMPILED BY T. W. DIBBLEE JR. 1971

GEOLOGIC MAP OF THE "REEF RIDGE" QUADRANGLE, CALIFORNIA