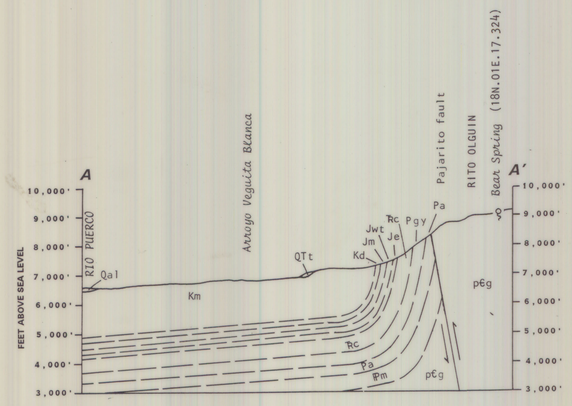
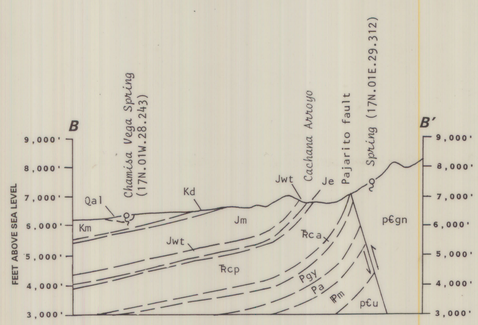
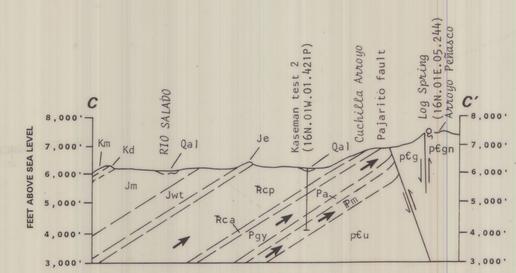
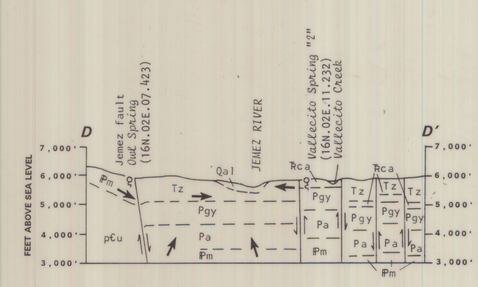
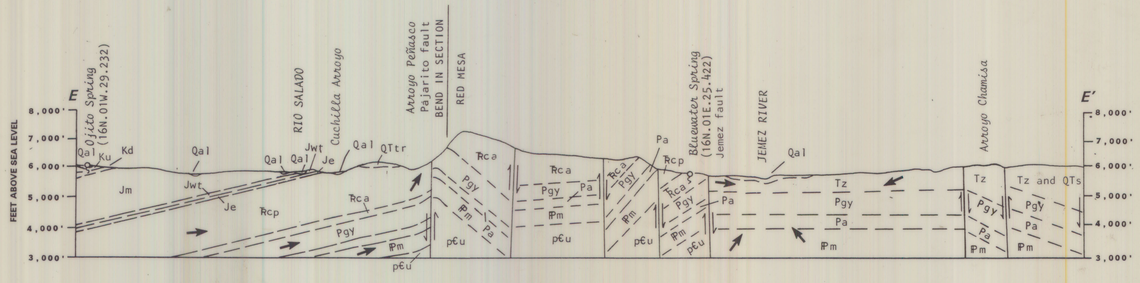
Prepared in cooperation with the
JEMEZ RIVER INDIAN WATER AUTHORITY

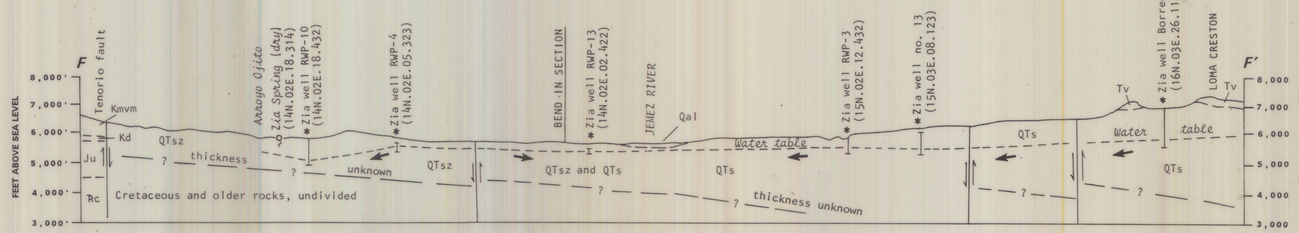


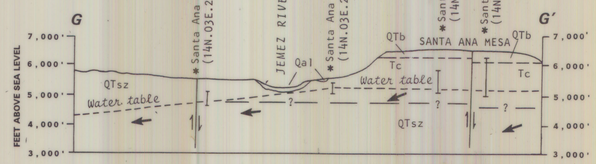












SOURCES OF INFORMATION FOR HYDROGEOLOGIC SECTIONS

A–A′ Modified from Wood and Northrop (1946), and Woodward and Schumacher (1973)

B–B′ Modified from Wood and Northrop (1946), and Woodward and Martinez (1974)

C–C′ Modified from Wood and Northrop (1946), and Woodward and Martinez (1974). Additional control from well shown on section

D–D′ Modified from Wood and Northrop (1946)

E–E′ Modified from Wood and Northrop (1946), and Woodward and Ruetschilling (1976)

F–F′ Formation contacts inferred from outcrops, with additional subsurface control from wells shown on sections

G–G′

0 1 2 3 4 5 MILES

0 1 2 3 4 5 KILOMETERS

VERTICAL EXAGGERATION x3
DATUM IS SEA LEVEL

EXPLANATION

CORRELATION OF MAP UNITS — LIST OF MAP UNITS (see plate 3 for description of map units)

Correlation of map units	Map units	Description
QUATERNARY	Qal	ALLUVIUM
	Qbt	BANDELIER TUFF
QUATERNARY AND TERTIARY	QTb	BASALT
	QTt	TERRACE GRAVEL
	QTtr	TRAVERTINE
	QTs	SANTA FE GROUP
	QTsz	SANTA FE GROUP AND ZIA SAND, UNDIVIDED
TERTIARY	Tv	VOLCANIC ROCKS, UNDIVIDED
	Tc	COCHITI FORMATION
	Tz	ZIA SAND
CRETACEOUS	Kmv	MESAVERDE GROUP
	Kmvm	MESAVERDE GROUP AND MANCOS SHALE, UNDIVIDED
	Km	MANCOS SHALE
	Kd	DAKOTA SANDSTONE
	Ku	CRETACEOUS ROCKS, UNDIFFERENTIATED
JURASSIC	Jm	MORRISON FORMATION
	Jwt	TODILTO LIMESTONE MEMBER OF WANAKAH FORMATION
	Je	ENTRADA SANDSTONE
	Ju	JURASSIC ROCKS, UNDIFFERENTIATED
TRIASSIC	Rc	CHINLE FORMATION
	Rcp	PETRIFIED FOREST MEMBER OF CHINLE FORMATION
	Rca	AGUA ZARCA SANDSTONE MEMBER OF CHINLE FORMATION
PERMIAN	Pgy	GLORIETA SANDSTONE AND YESO FORMATION, UNDIVIDED
	Pa	ABO FORMATION
	Pu	PERMIAN ROCKS, UNDIFFERENTIATED
PENNSYLVANIAN	IPm	MADERA LIMESTONE
PRECAMBRIAN	p€g	GRANITE
	p€gn	GNEISS
	p€u	PRECAMBRIAN IGNEOUS AND METAMORPHIC ROCKS, UNDIFFERENTIATED

CONTACT BETWEEN GEOLOGIC UNITS--Dashed where approximately located

FAULT--Arrows show relative movement. Dashed where approximately located

POSSIBLE DIRECTION OF GROUND-WATER MOVEMENT

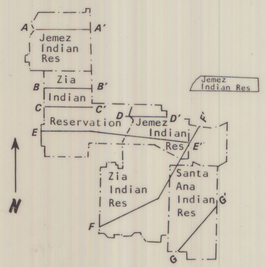
SPRING

(14N.03E.12.113) LOCATION NUMBER--See text and figure 2 for explanation of site-numbering system

*Santa Ana well RWP-11 WELL OR SPRING NAME

WELL DEPTH--Length of line indicates depth. An asterisk preceding well name indicates well was projected onto line of section

LOCATION MAP OF HYDROGEOLOGIC SECTIONS



HYDROGEOLOGIC SECTIONS THROUGH THE PUEBLOS OF JEMEZ, ZIA, AND SANTA ANA, SANDOVAL COUNTY, NEW MEXICO