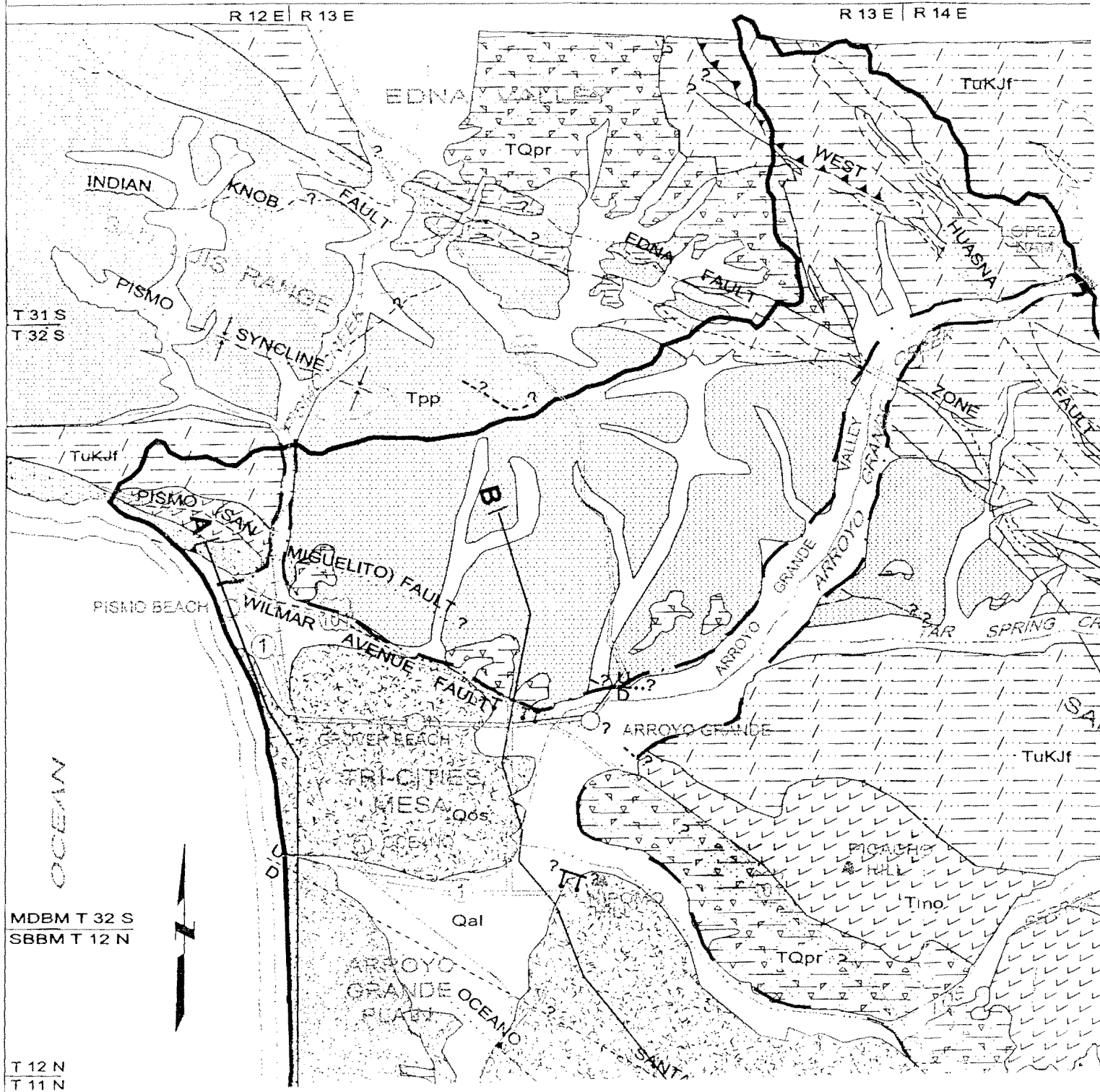


PLATE 1 - AREAL GEOLOGY OF THE ARROYO



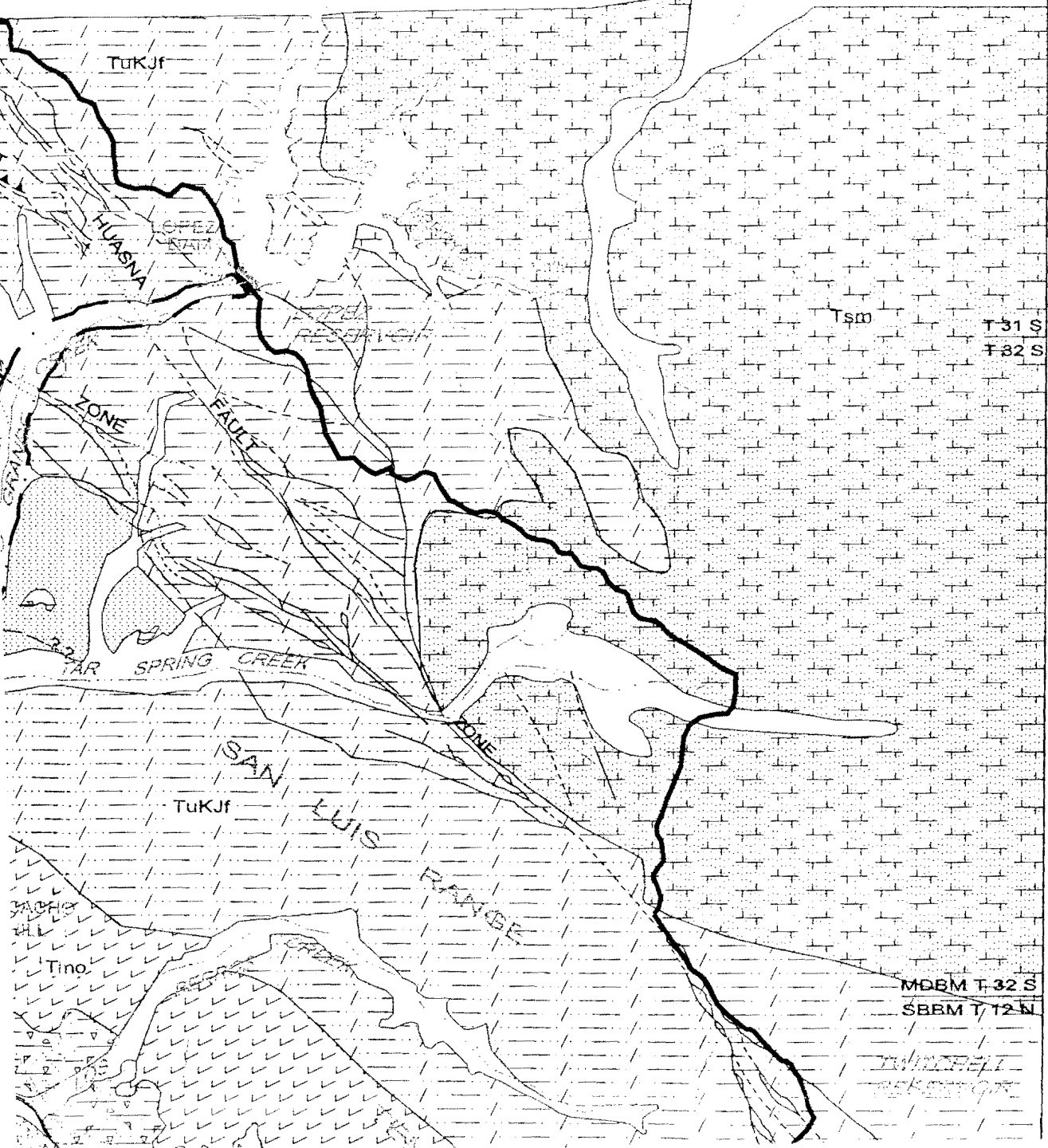
MDBM T 32 S
SBBM T 12 N

T 12 N
T 11 N

THE ARROYO GRANDE-NIPOMO MESA AREA

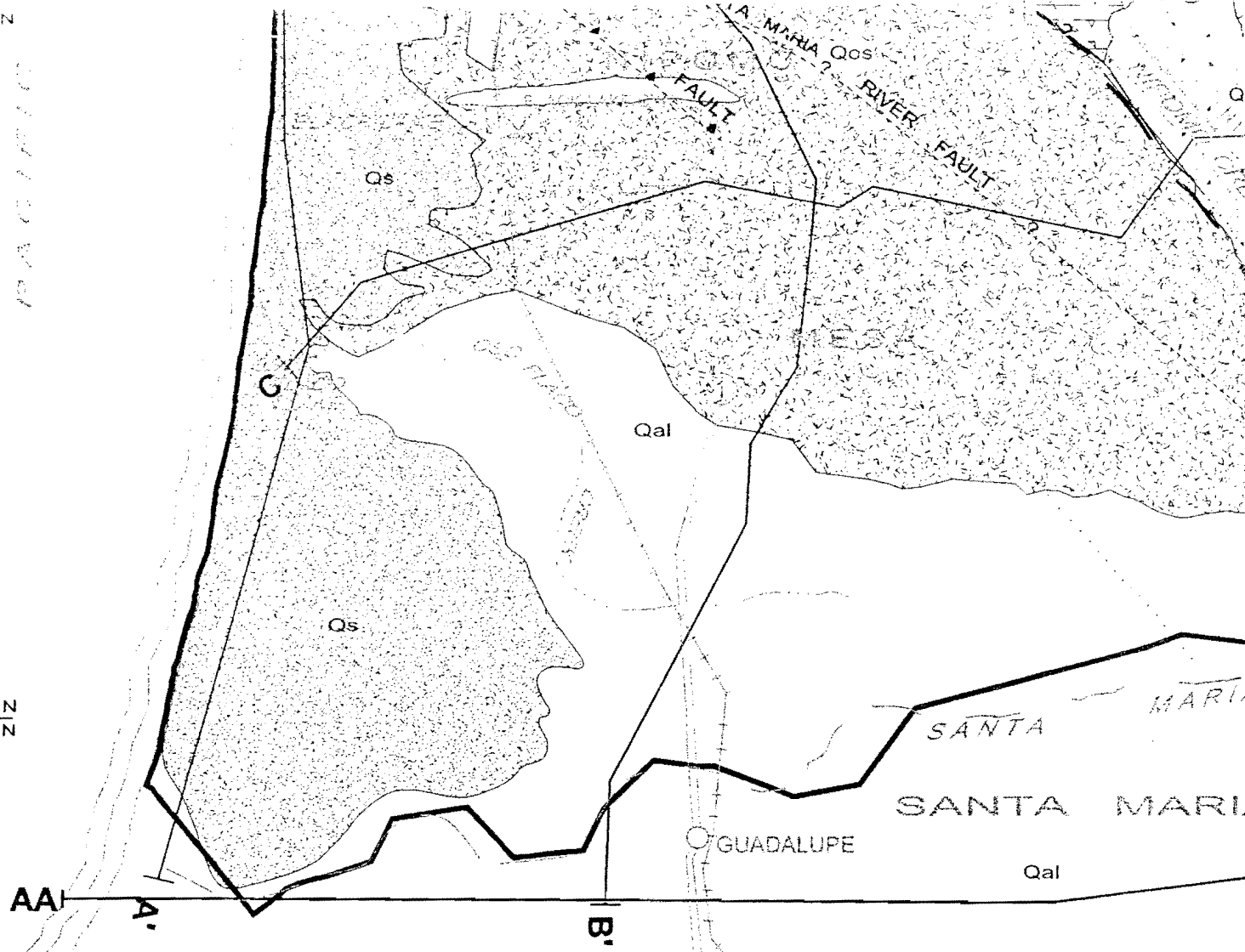
R 13 E | R 14 E

R 14 E | R 15 E



T 11 N

T 11 N
T 10 N

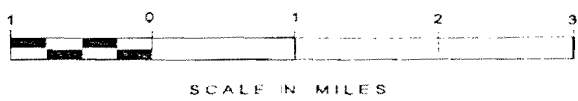


R 36 W | R 35 W

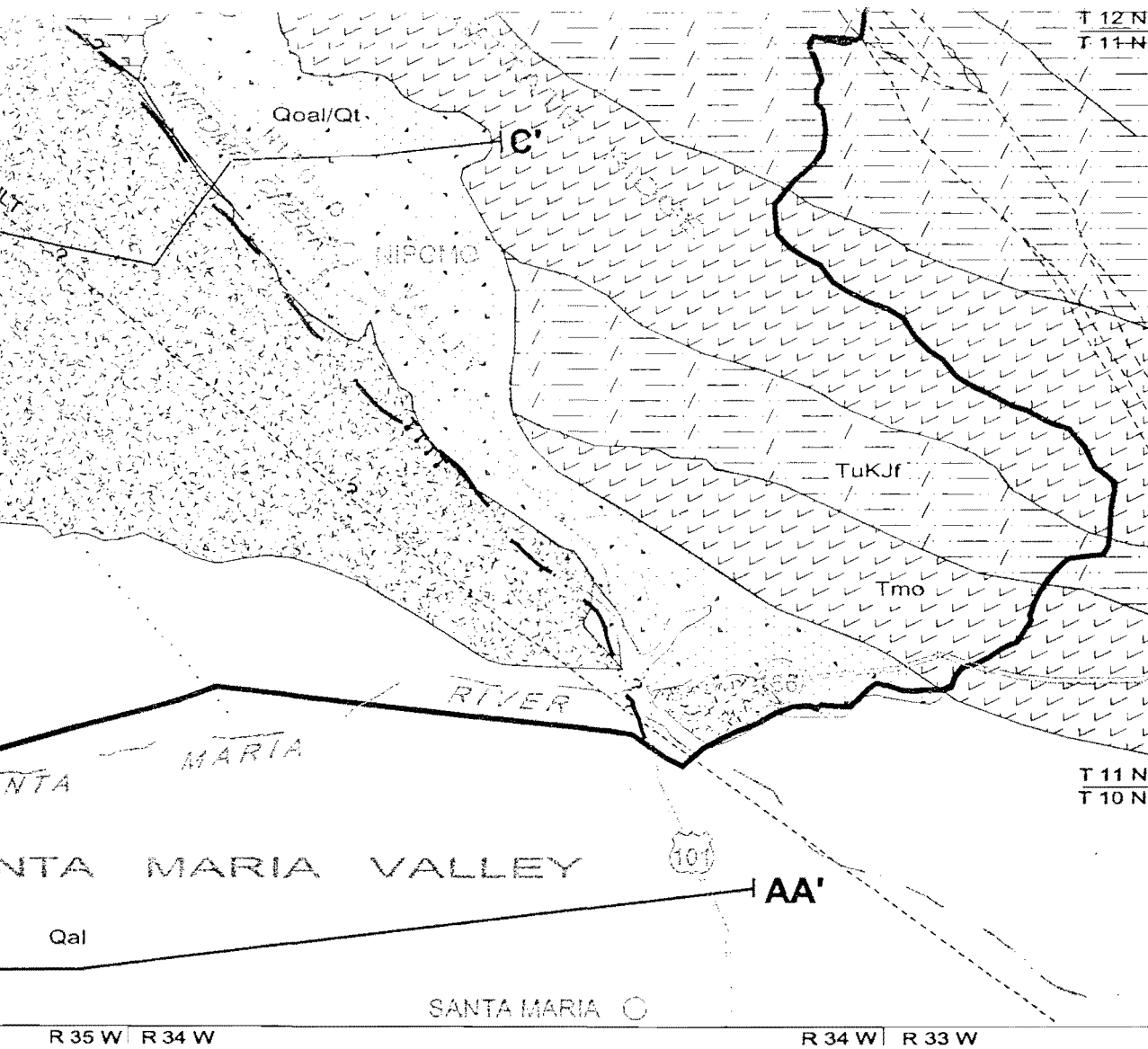
R 35 W | R 34 W

LEGEND

STUDY AREA BOUNDARY
 GROUNDWATER BASIN BOUNDARY



TERTIARY	QUATERNARY	PLIOCENE	PLEISTOCENE	HOLOCENE	Qs	RECENT DUNE SANDS	Tpp	PISMO FORMATION
					Qal	RECENT ALLUVIUM	Tsm	SANTA MARGARITA FORMATION
					Qos	OLDER DUNE SANDS	Tmo	OBISPO PYROCLASTIC ROCKS
					Qal/Qt	OLDER ALLUVIUM OR TERRACE DEPOSITS	Tmk	MAJOR ROCKS IN MIOCENE MONTE AND JURASSIC COMPLEX
					TQpr	PASO ROBLES FORMATION		



Legend



PISMO FORMATION



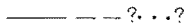
SANTA MARGARITA FORMATION



OBISPO PYROCLASTIC ROCKS



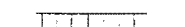
MAJOR ROCKS INCLUDE MIOCENE MONTEREY FORMATION AND JURASSIC FRANCISCAN COMPLEX



FAULT, DASHED WHERE APPROXIMATELY LOCATED, QUERIED WHERE INFERRED, DOTTED WHERE CONCEALED



THRUST FAULT, DASHED WHERE APPROXIMATELY LOCATED, SAW-TEETH ON UPPER PLATE, DIP OF FAULT PLANE BETWEEN 30° AND 80°



BURIED BEDROCK STEP OF UNKNOWN ORIGIN, BALL ON LOWER SIDE



SYNCLINE, SHOWING TRACE OF AXIAL SURFACE, DASHED WHERE APPROXIMATELY LOCATED, DOTTED WHERE CONCEALED



LINE OF GEOLOGIC CROSS-SECTION

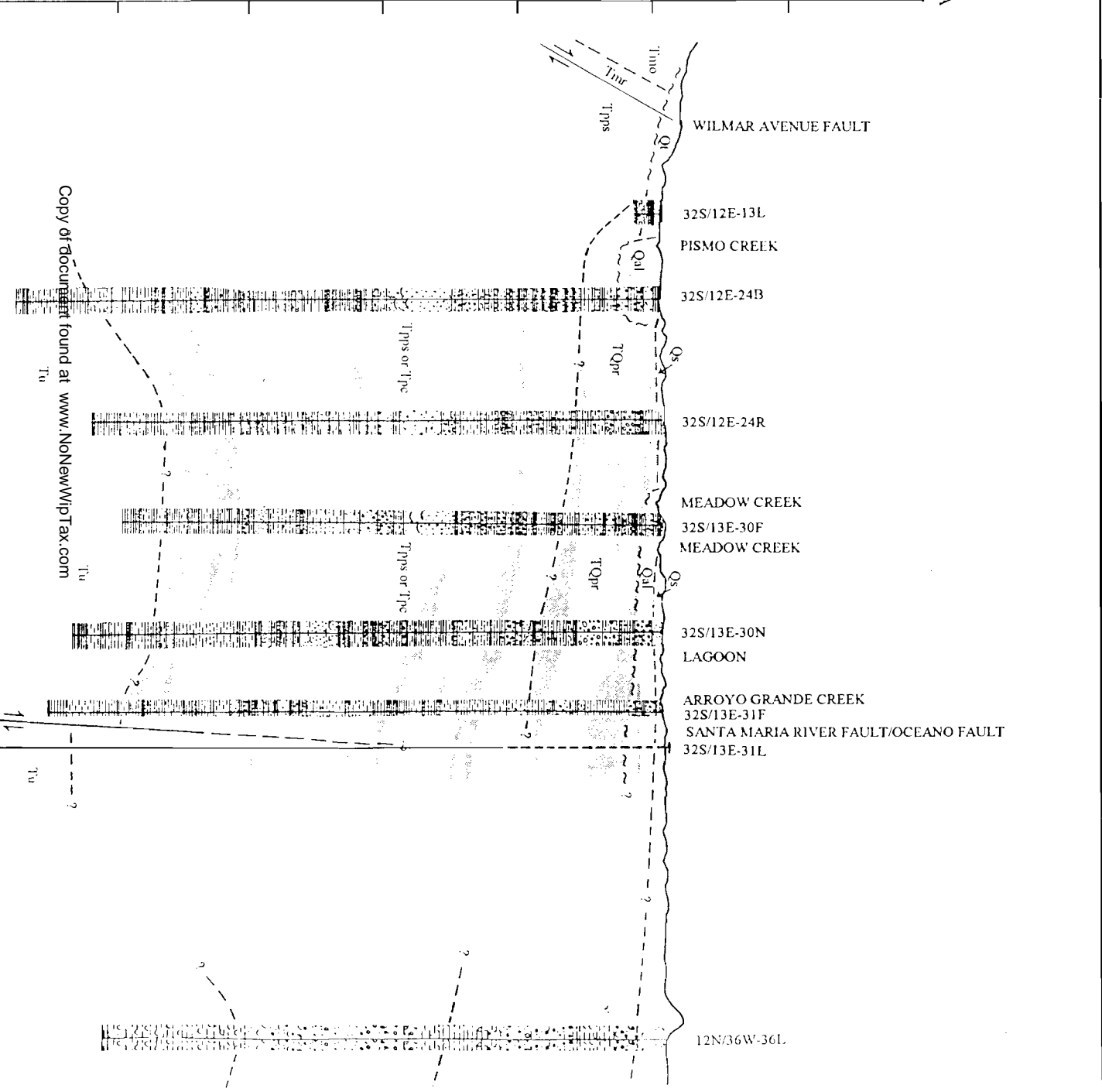


LINE OF SECTION SHOWING WATER LEVEL PROFILES

ELEVATION IN FEET - USGS DATUM

NORTH
A

800
600
400
200
0
200

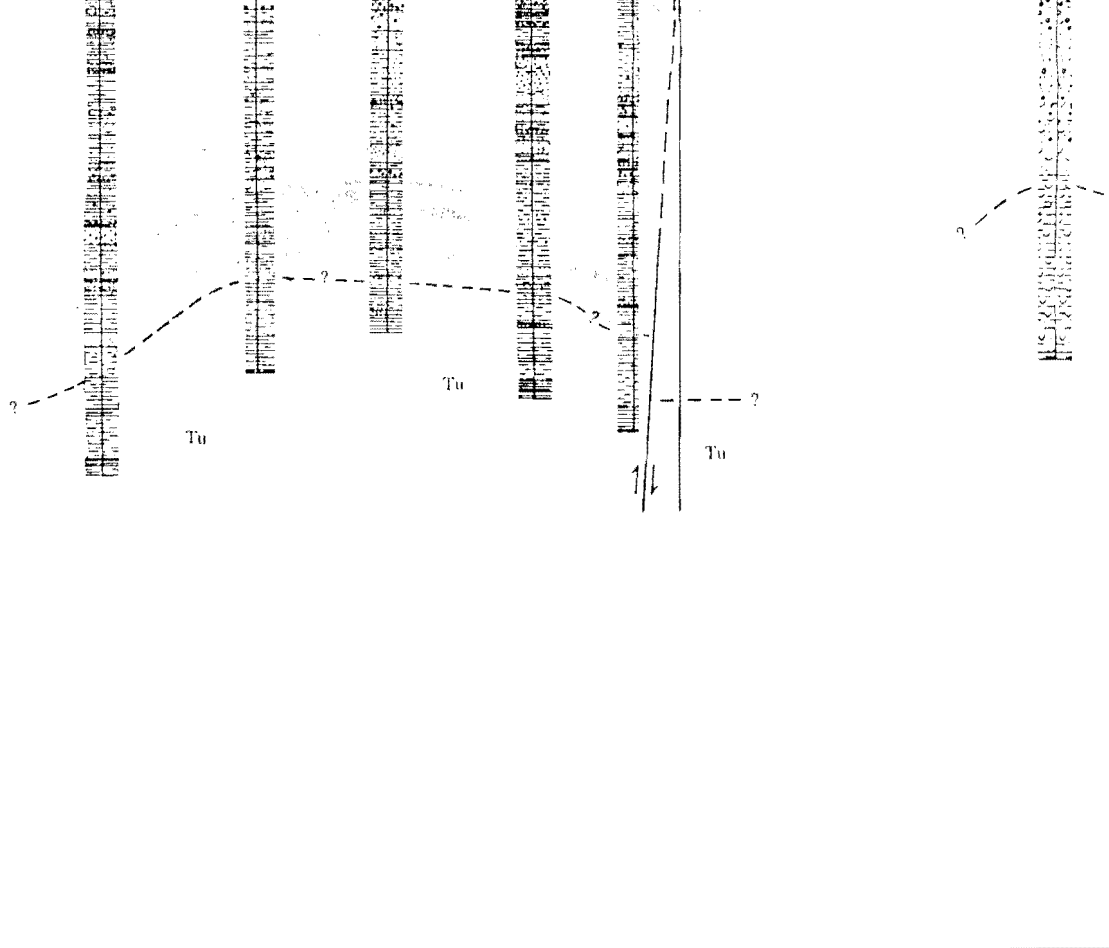


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ELEVATION IN FEET - USGS DATUM

-400
-600
-800
-1000
-1200
-1400



EXPLANATION

LITHOLOGIC SYMBOLS

- SAND
- GRAVEL
- SILT and CLAY
- SHELLS

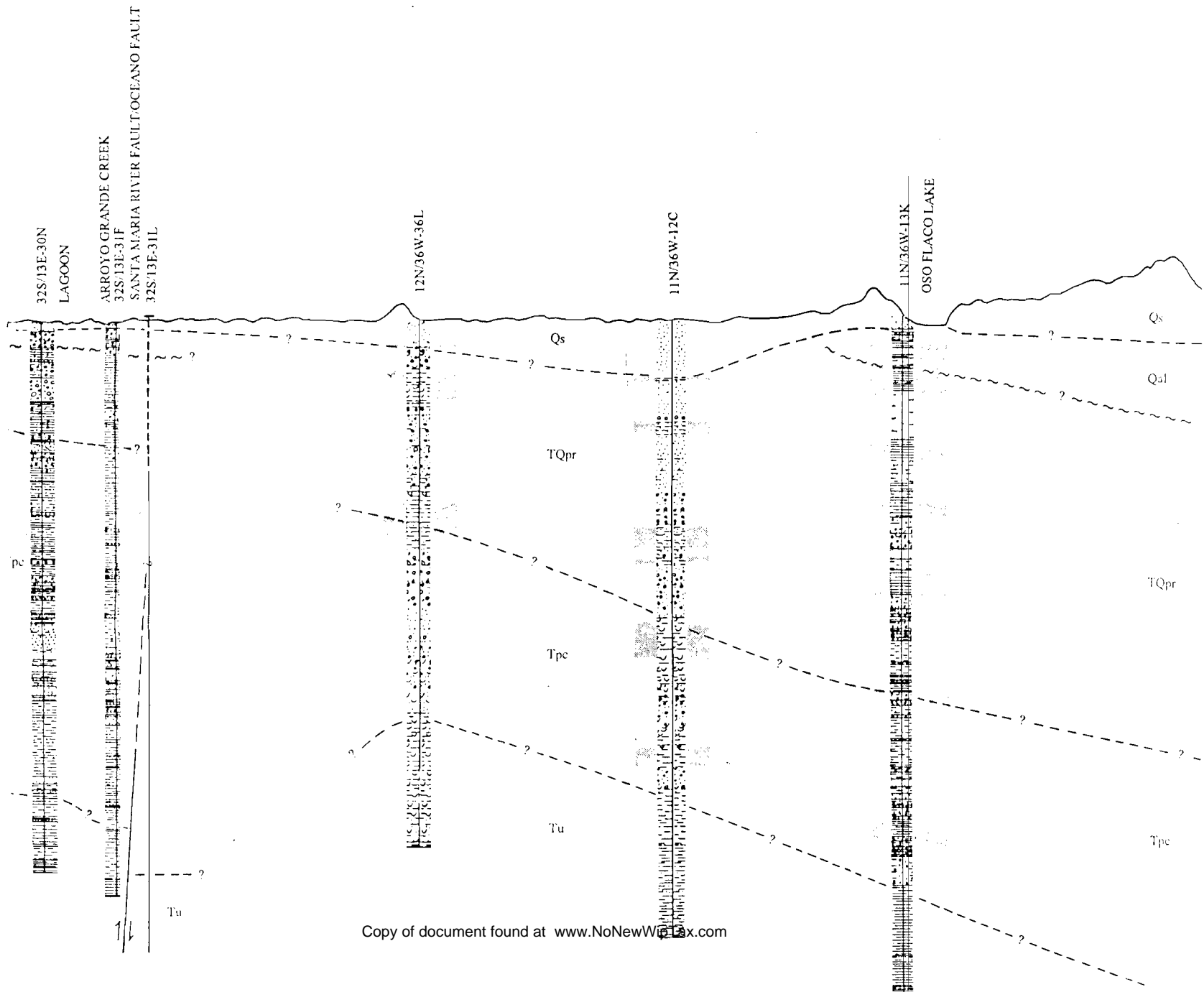
HYDROGEOLOGIC UNIT

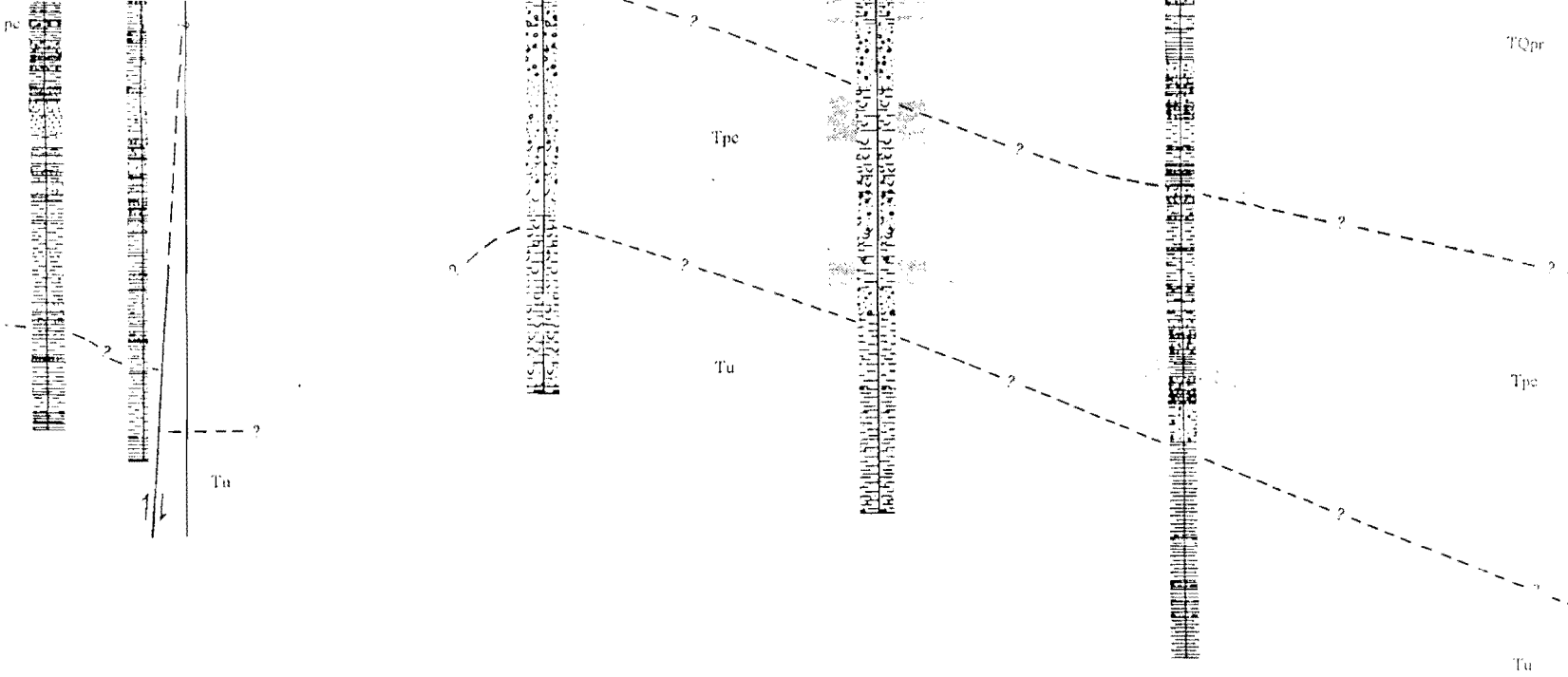
- UNCONSOLIDATED TO WEAKLY CEMENTED CLAYEY SILT TO SILTY CLAY WITH MINOR SAND OR GRAVEL

FORMATION AND SYMBOL

- Qs DUNE SAND
- Qal ALLUVIAL DEPOSITS
- Qt TERRACE DEPOSITS
- TQpr PASO ROBLES FORMATION
- Tpc CAREAGA FORMATION
- Tpps SQUIRE MEMBER, PISMO FORMATION
- Tmo OBISPO FORMATION
- Tnr RINCON FORMATION
- Tu UNDIFFERENTIATED TERTIARY DEPOSITS

- 32S/12E-24K WATER WELL WITH DRI
- 10N/36W-2G OIL WELL WITH ELECTRIC DASHED ABOVE RECORD
- FAULT - DASHED WHERE INDICATE RELATIVE VE
- UNCONFORMITY





SYMBOLS

- 32S/12E-24K WATER WELL WITH DRILLER'S LOG
- 10N/36W-2G OIL WELL WITH ELECTRIC LOG,
DASHED ABOVE RECORD
- FAULT - DASHED WHERE UNCERTAIN, ARROWS
INDICATE RELATIVE VERTICAL MOVEMENT
- UNCONFORMITY

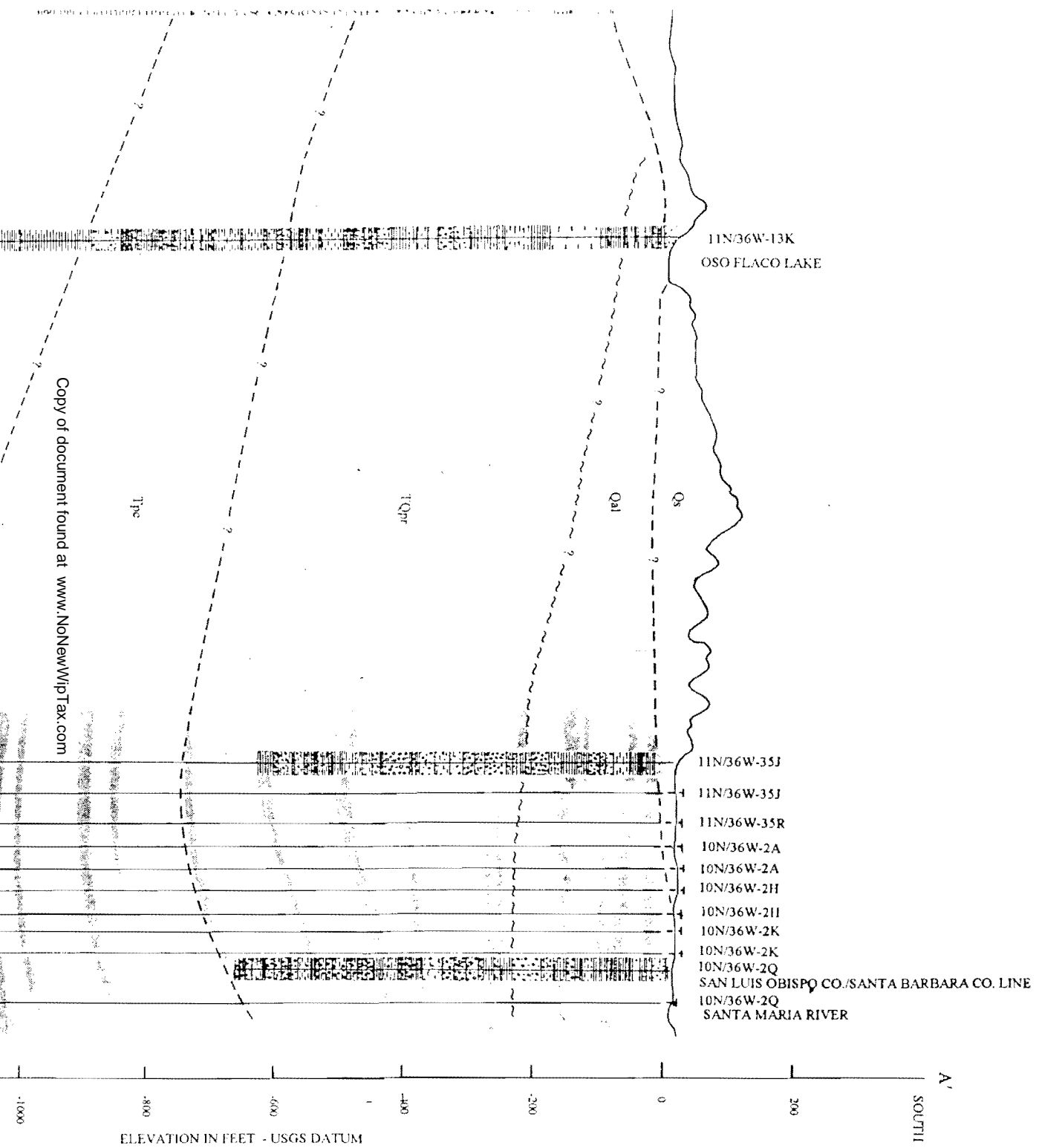
NOTE: REFERENCES INCLUDE: DWR, 1970; NITCHMAN, 1988; LETTIS et al., 1974; HALL, 1981; BUCHANAN - BANKS et al., 1978; AND HANSON et al., 1994.

LOCATION OF GEOLOGIC SECTION SHOWN ON PLATE 1

VERTICAL SCALE 20 TIMES HORIZONTAL SCALE

HORIZONTAL SCALE IN FEET

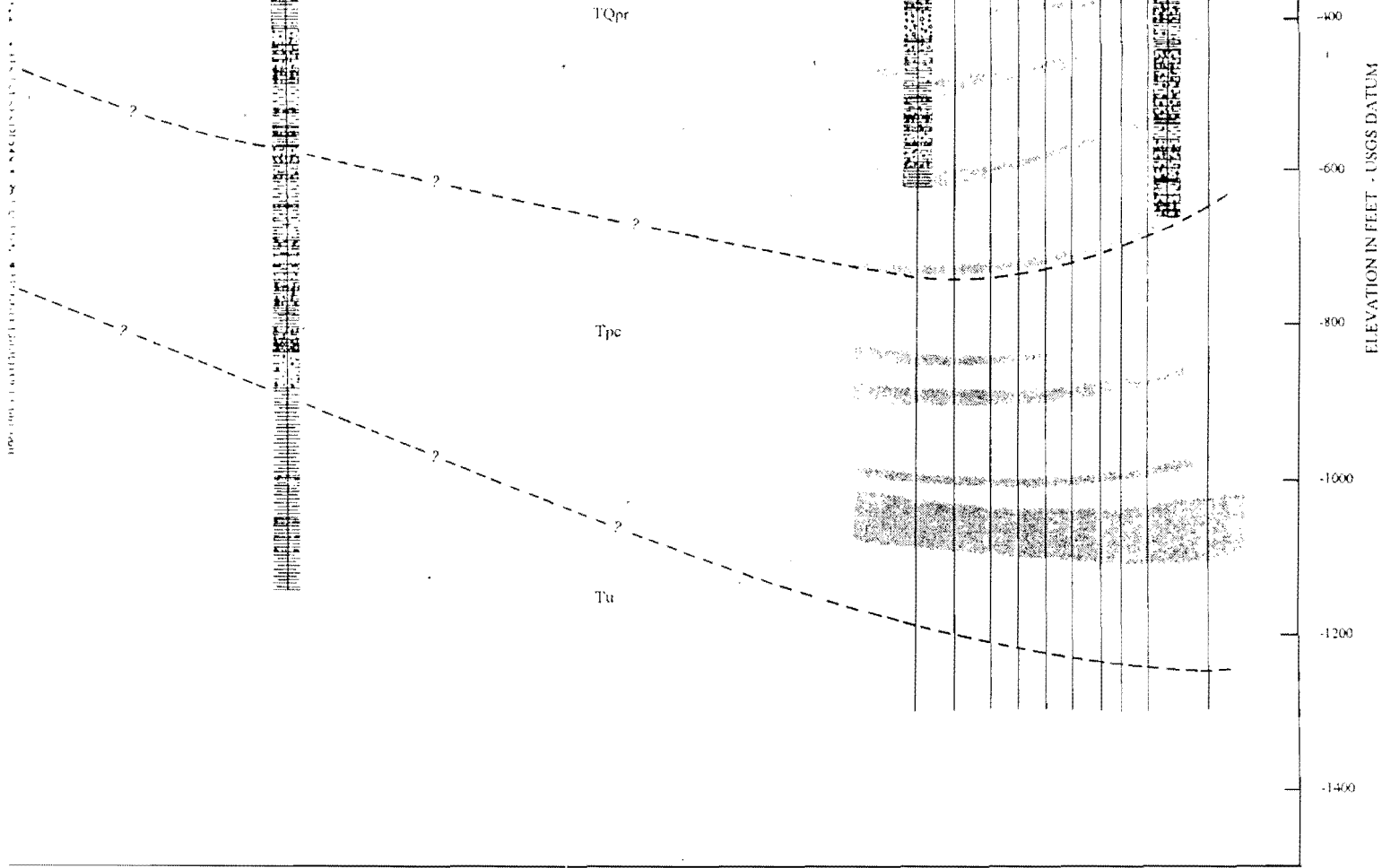




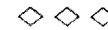
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ELEVATION IN FEET - USGS DATUM

A'
SOUTH



**WATER RESOURCES OF THE
ARROYO GRANDE - NIPOMO MESA AREA**



**PLATE 2
GEOLOGIC SECTION A - A'**

NOTE: REFERENCES INCLUDE: DWR, 1970; NITCHMAN, 1988; LETTIS et al., 1994; LALL, 1981; BUCHANAN - BANKS et al., 1978; AND HANSON et al., 1994.

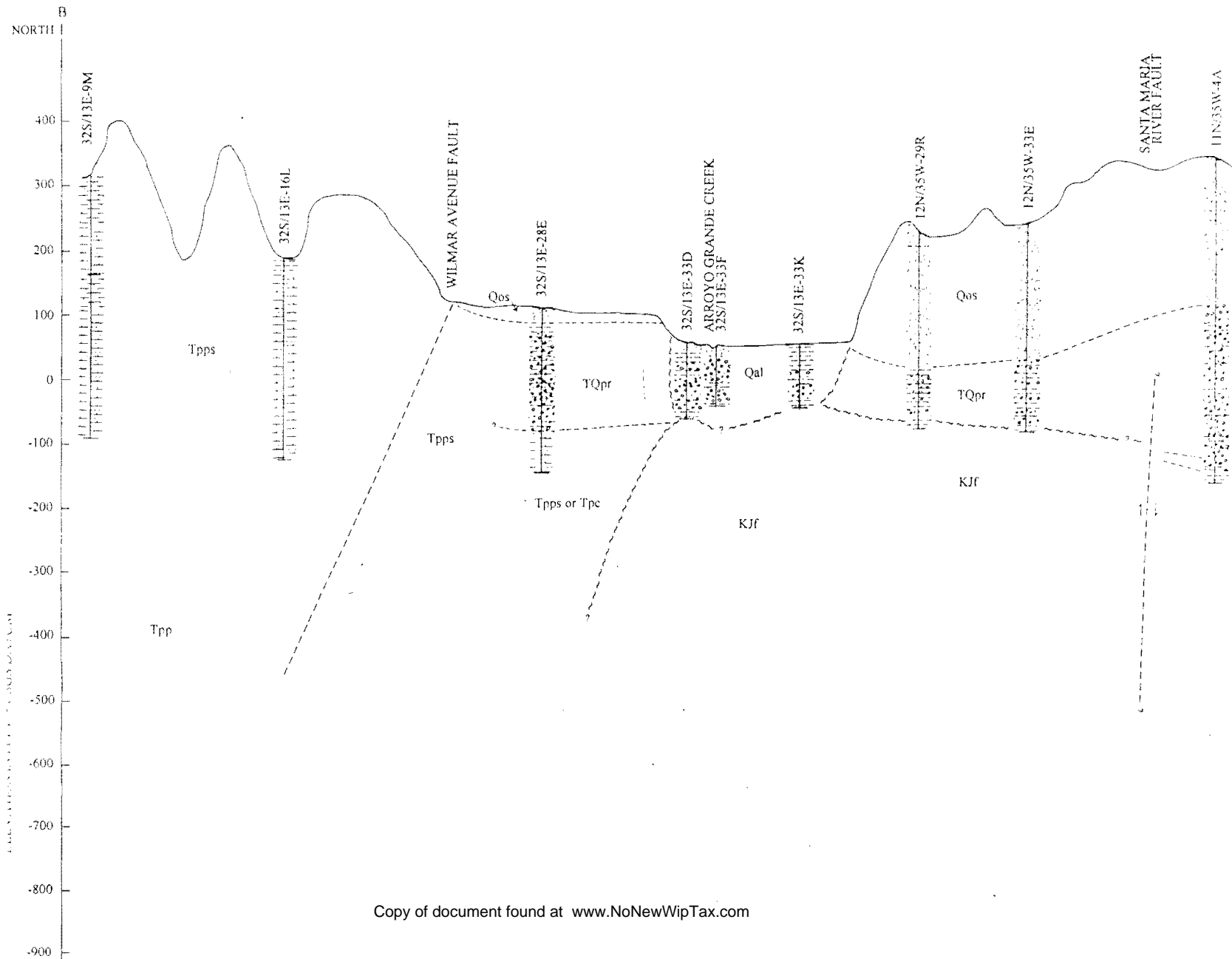
LOCATION OF GEOLOGIC SECTION SHOWN ON PLATE 1

VERTICAL SCALE 20 TIMES HORIZONTAL SCALE

HORIZONTAL SCALE IN FEET



AM 01593



DEPTH IN FEET - POSITIVE DOWN

-400
-500
-600
-700
-800
-900
-1000
-1100
-1200
-1300
-1400
-1500
-1600

Tpp

EXPLANATION

LITHOLOGIC SYMBOLS

- SAND
- ▨ GRAVEL
- ▧ SILT, CLAY OR SHALE
- ▩ SANDSTONE
- SERPENTINE
- SHELLS

FORMATION AND SYMBOL

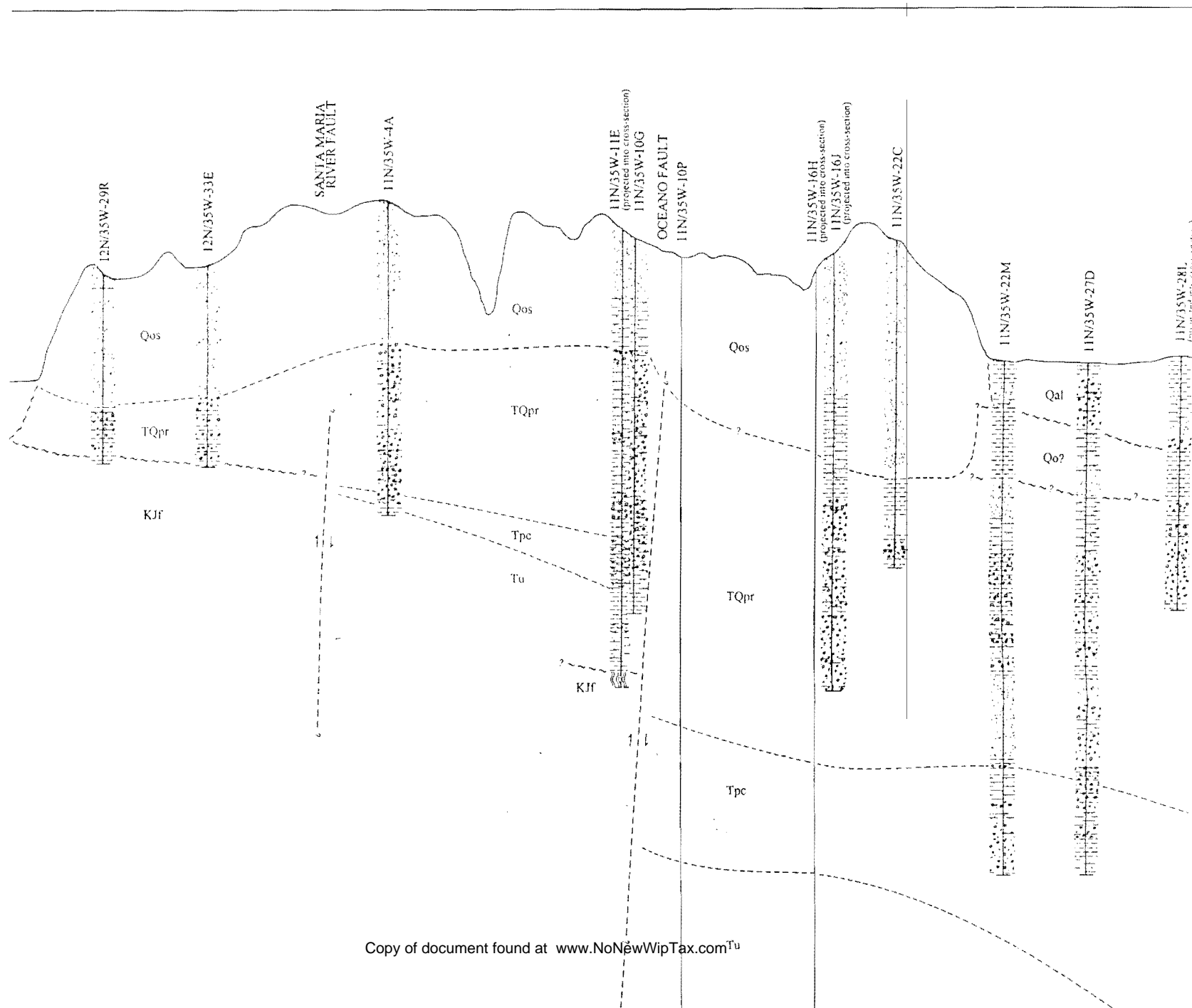
- Qal ALLUVIAL DEPOSITS
- Qos OLDER DUNE SANDS
- Qo ORCUTT SAND
- TQpt PASO ROBLES FORMATION
- Tpe CAREAGA FORMATION
- Tpps SQUIRE MEMBER, PISMO FORMATION
- Tpp PISMO FORMATION
- Tu UNDIFFERENTIATED TERTIARY DEPOSITS
- KJf FRANCISCAN COMPLEX

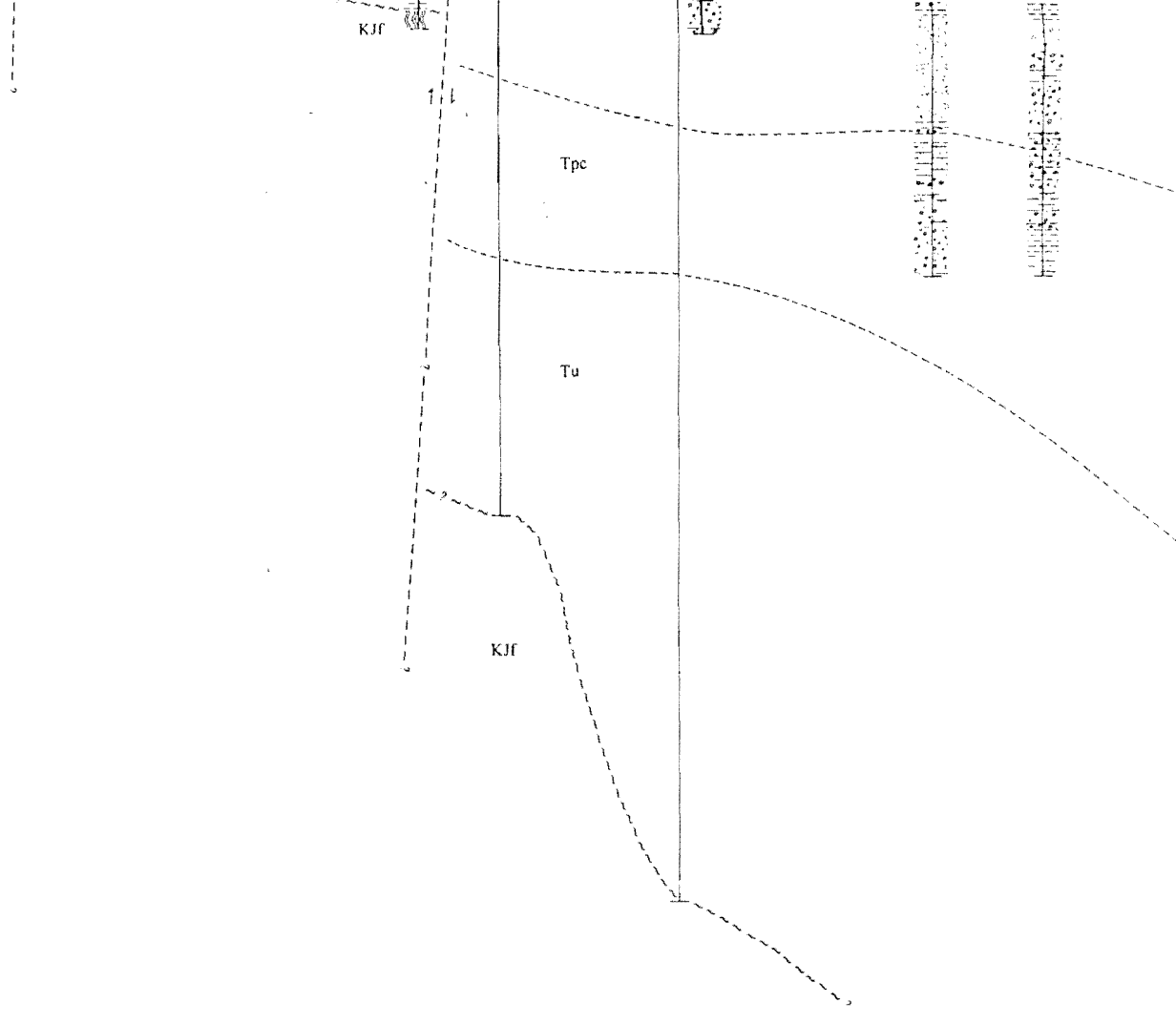
WIN36W-13K WATER WELL WITH DRILLER'S LOG

WIN35W-16H OIL WELL WITH ELECTRIC LOG, DASHED ABOVE RECORD

--- FAULT - DASHED WHERE UNCERTAIN, ARROW INDICATE RELATIVE VERTICAL MOVEMENT

----- UNCONFORMITY





11N36W-13K WATER WELL WITH DRILLER'S LOG

11N35W-16H OIL WELL WITH ELECTRIC LOG,
DASHED ABOVE RECORD

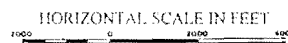
FAULT - DASHED WHERE UNCERTAIN, ARROWS
INDICATE RELATIVE VERTICAL MOVEMENT

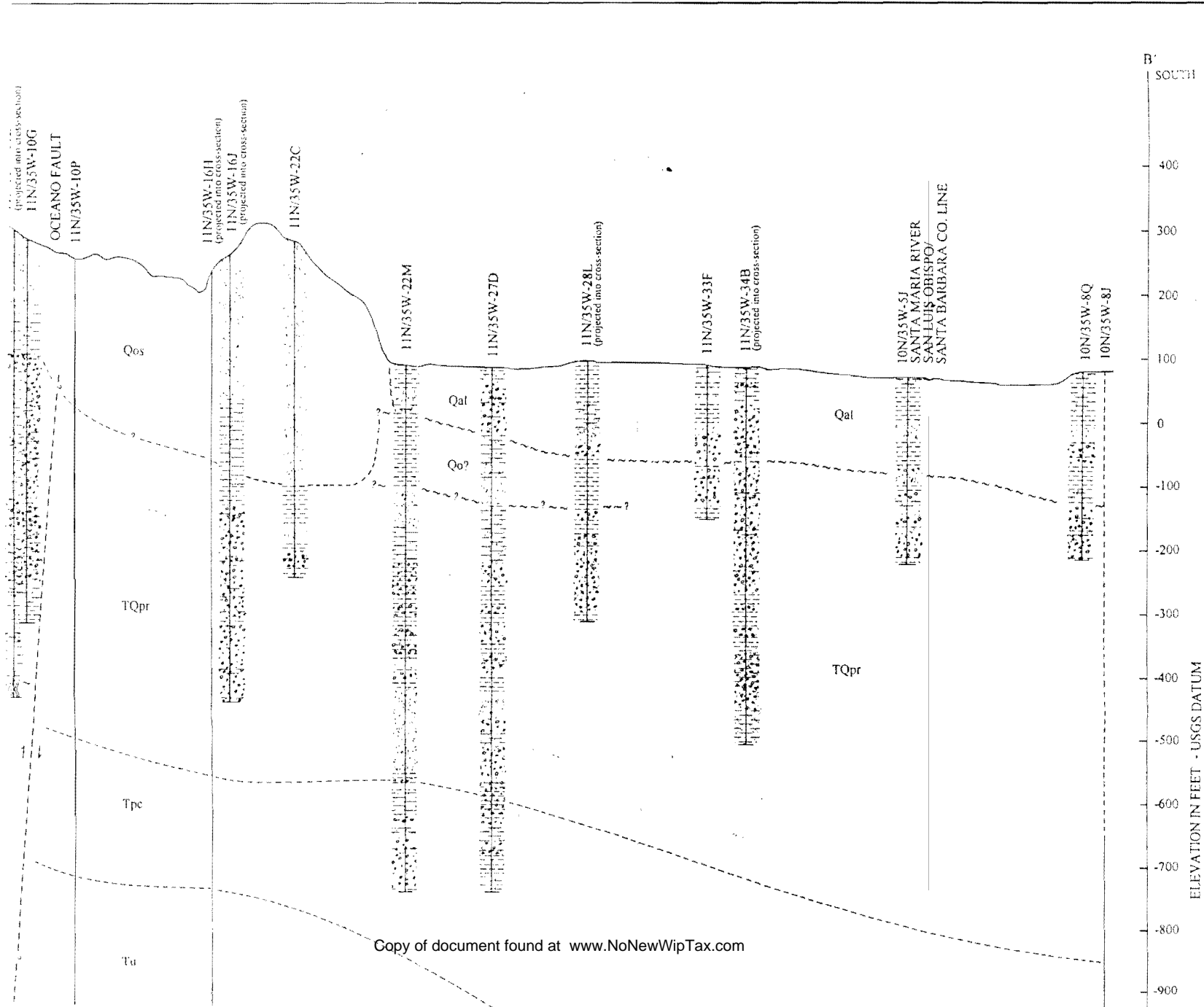
UNCONFORMITY

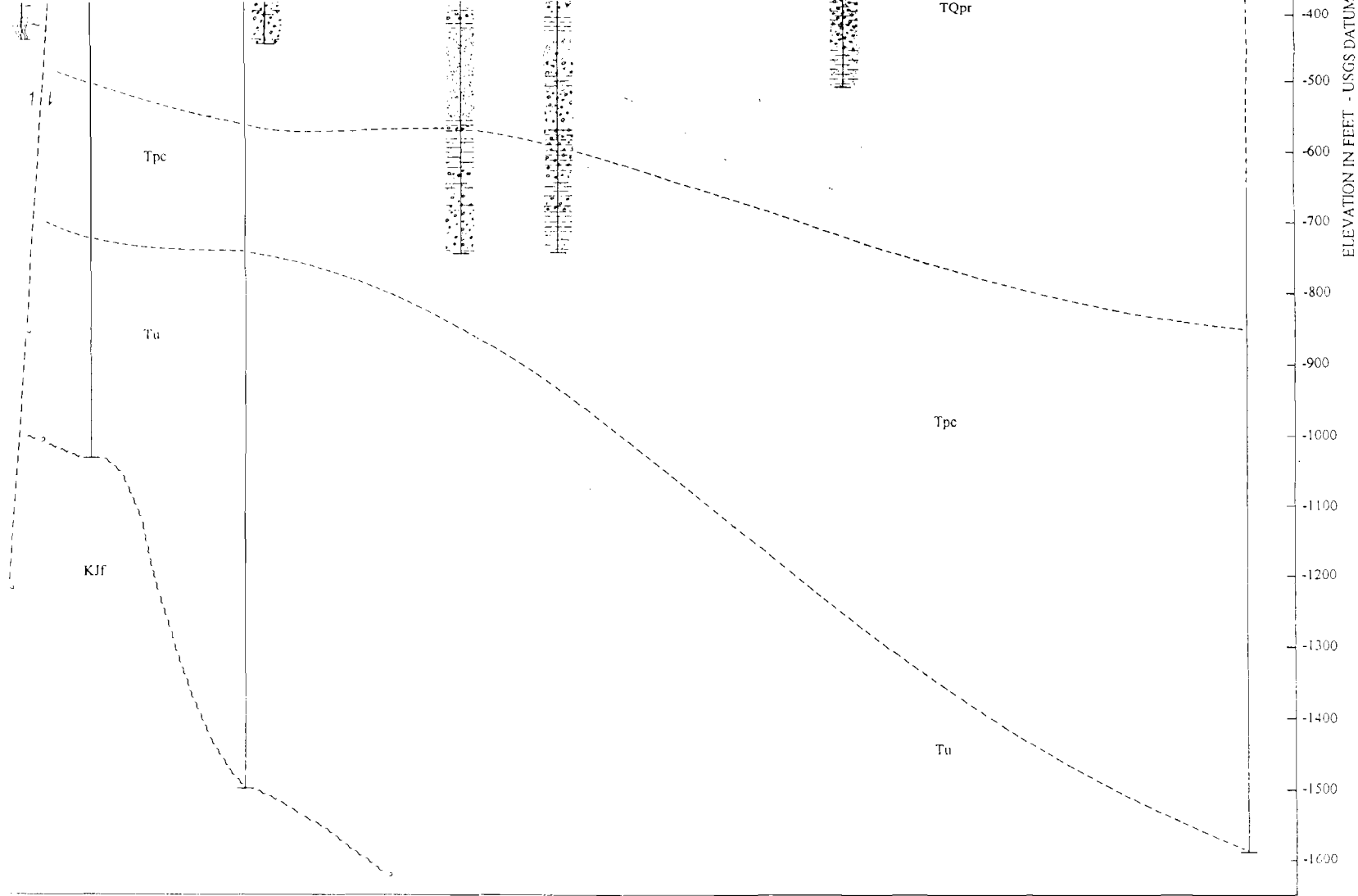
LOCATION OF GEOLOGIC SECTION SHOWN ON PLATE 1

NOTE REFERENCES INCLUDE: NITCHMAN, 1988, LETTIS et al., 1994,
HALL, 1981, BUCHANAN - BANKS et al., 1978, AND HANSON et al., 1994

VERTICAL SCALE 20 TIMES HORIZONTAL SCALE







WATER RESOURCES OF THE
ARROYO GRANDE - NIPOMO MESA AREA



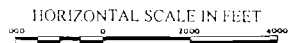
PLATE 3

GEOLOGIC SECTION B - B'

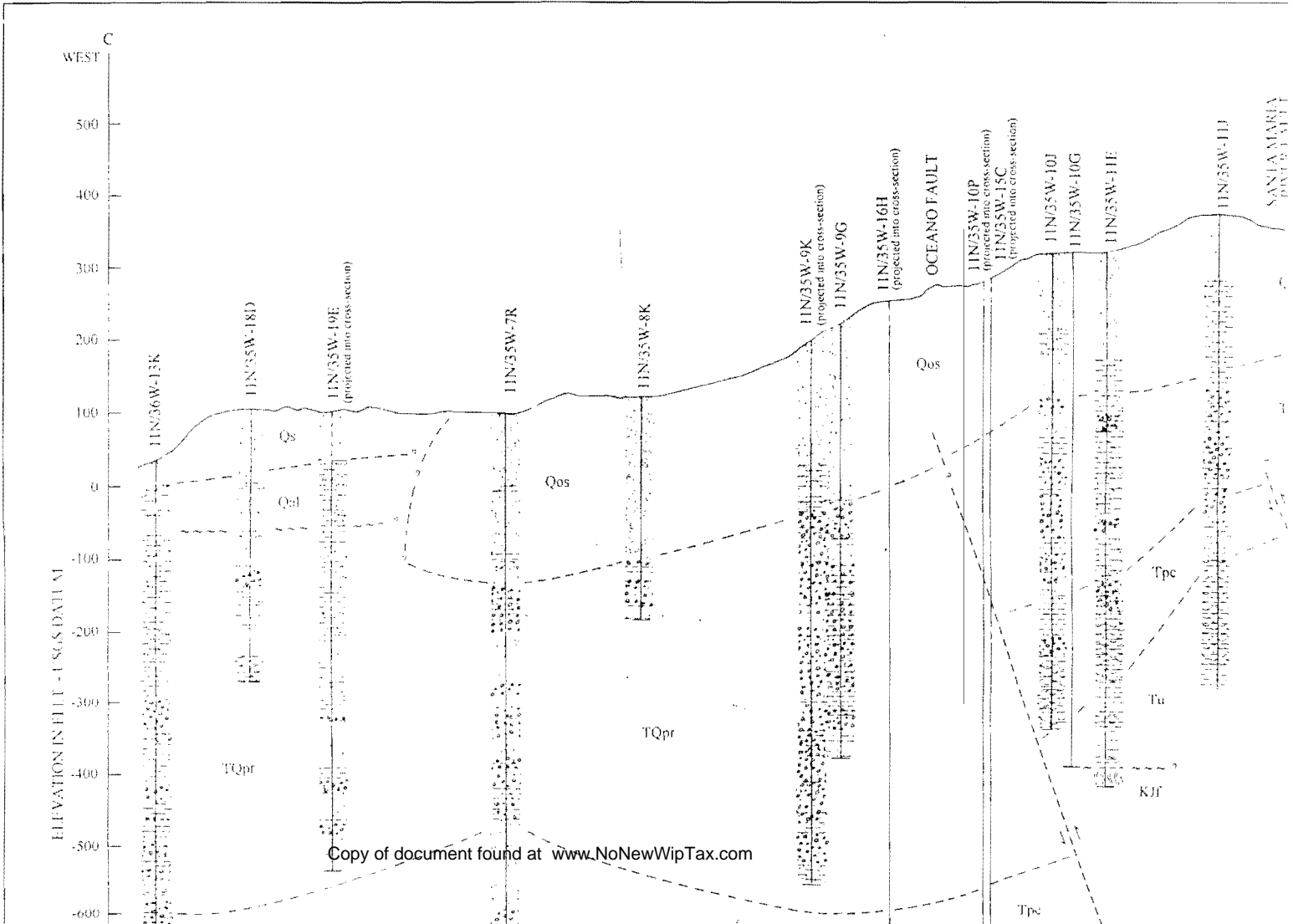
SECTION OF GEOLOGIC SECTION SHOWN ON PLATE 1

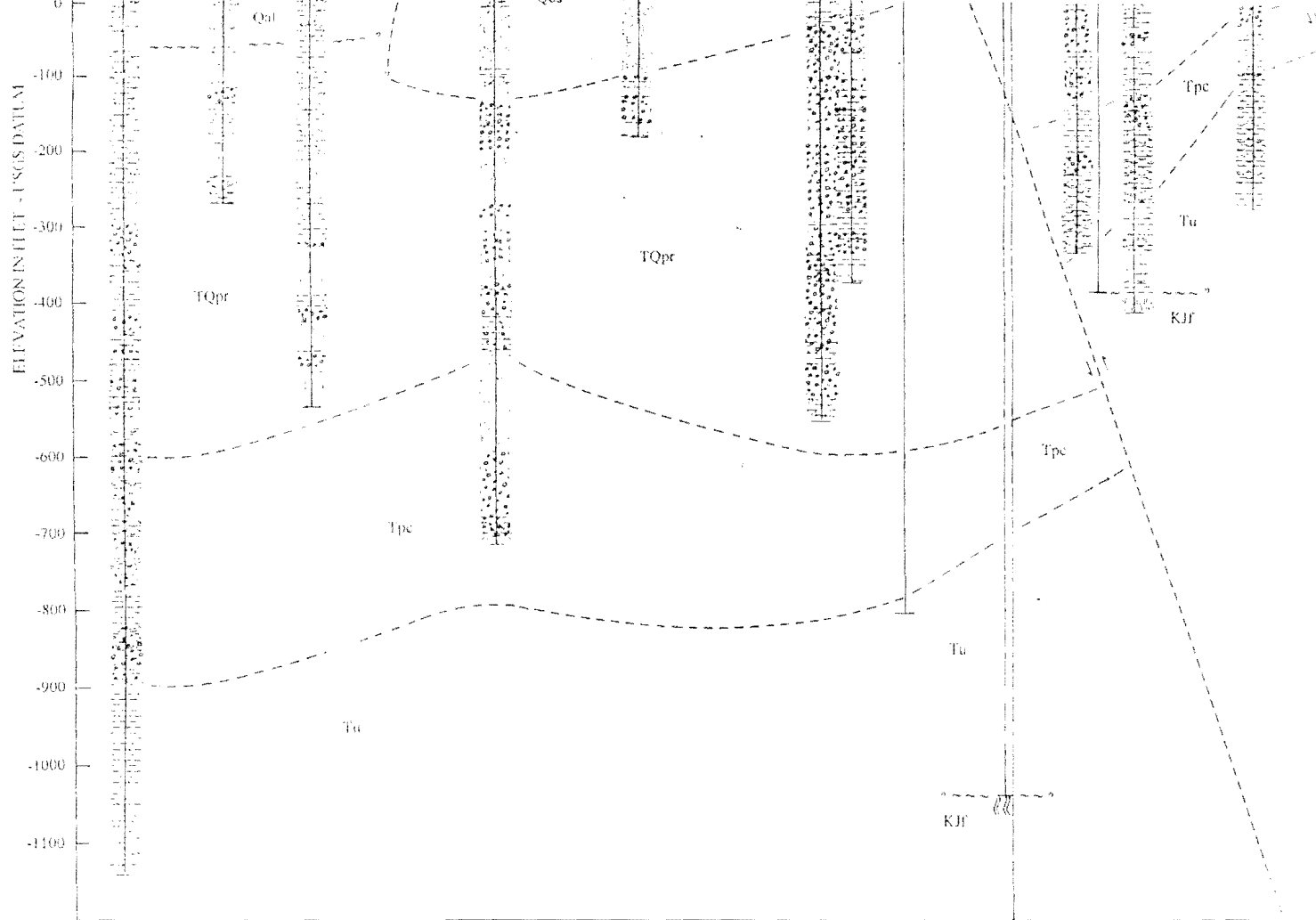
REFERENCES INCLUDE NITCHMAN, 1988, LETTIS et al., 1991,
1981, BUCHANAN - BANKS et al., 1978, AND HANSON et al., 1994

CAL SCALE 20 TIMES HORIZONTAL SCALE



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EXPLANATION

LITHOLOGIC SYMBOLS

- SAND
- GRAVEL
- SILT, CLAY OR SHALE
- SANDSTONE
- TUFF
- SERPENTINE
- SIBBELS

FORMATION AND SYMBOL

- Qs RECENT DUNE SANDS
- Qal ALLUVIAL DEPOSITS
- Qos OLDER DUNE SANDS
- Qal OLDER ALLUVIUM
- TQpr PASO ROBLES FORMATION
- Tpe CAREAGA FORMATION
- Tmo OBISPO FORMATION
- Tu UNDIFFERENTIATED TERTIARY DEPOSITS
- KJf FRANCISCAN COMPLEX

11N/36W-13K WATER WELL WITH DRILLER'S LOG

11N/35W-16H OIL WELL WITH ELECTRIC LOG

FAULT - DASHED WHERE UNCERTAIN, ARROWS INDICATE RELATIVE VERTICAL MOVEMENT

UNCONFORMITY

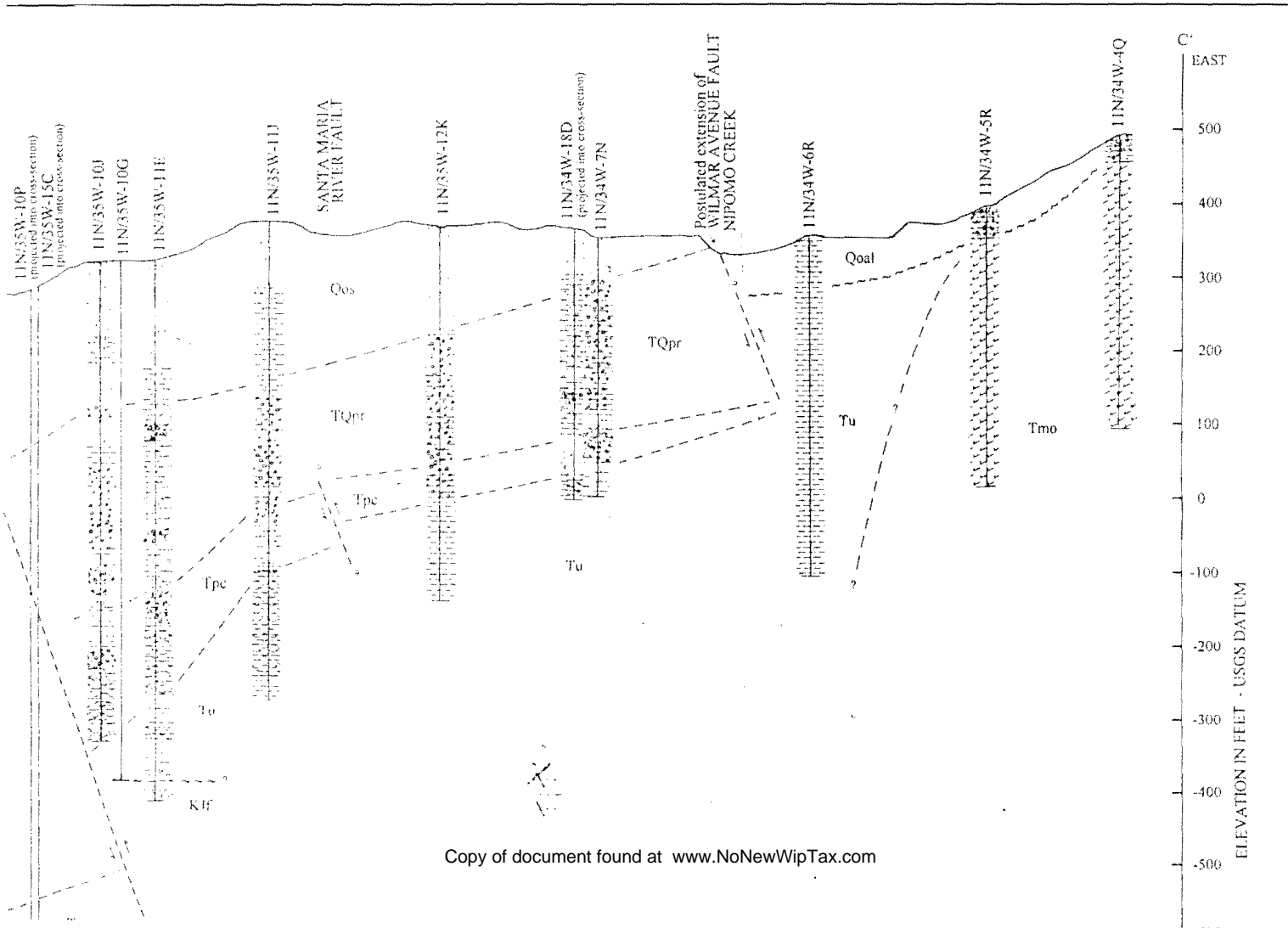
LOCATION OF

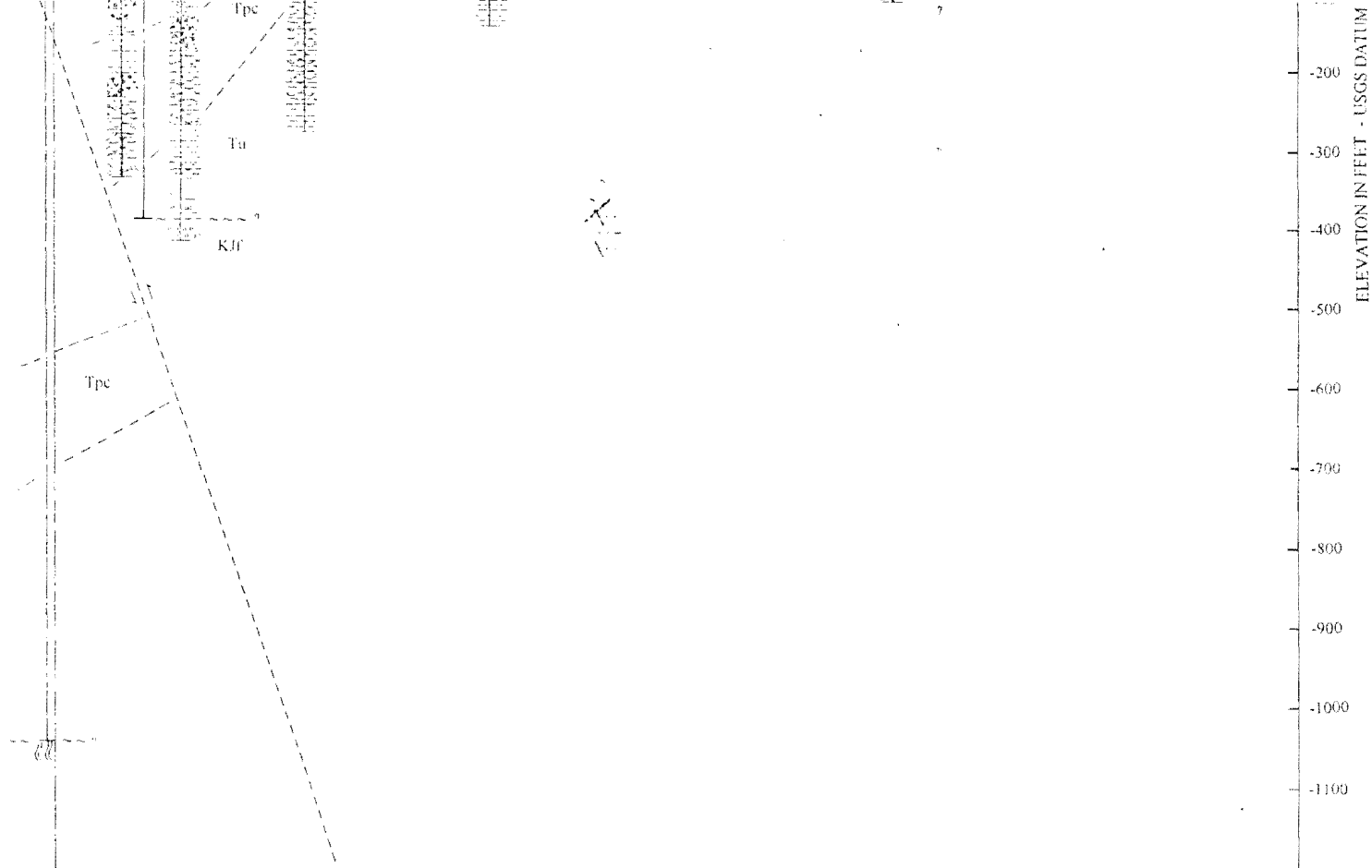
NOTE REFER TO BUCHANAN-1

VERTICAL SC.

HOR







DRILLER'S LOG

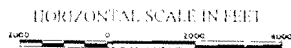
TECTRIC LOG

WHERE UNCERTAIN, ARROWS
VE. VERTICAL MOVEMENT

LOCATION OF GEOLOGIC SECTION SHOWN ON PLATE 1

NOTE: REFERENCES INCLUDE: LETTUS et al., 1994; HALL, 1981;
BUCHANAN - BANKS et al., 1978; AND HANSON et al., 1994

VERTICAL SCALE: 20 TIMES HORIZONTAL SCALE



**WATER RESOURCES OF THE
ARROYO GRANDE - NIPOMO MESA AREA**



**PLATE 4
GEOLOGIC SECTION C - C'**