

**EXPLANATION**

**SEDIMENTARY ROCKS**

**Quaternary**

- Qal: Alluvium (Clay, silt, sand, and gravel, unconsolidated, gray, light-brown, or reddish-brown)
- Qt: Terrace deposits (Clay, silt, sand, and gravel, unconsolidated or poorly consolidated, gray, light-brown, or reddish-brown)
- Qts: Saugus formation (North of San Fernando River, brown, reddish-brown, and tan sandstone and conglomerate, reddish-brown mudstone, and greenish-gray siltstone or very fine grained sandstone, and upper unnamed member, brown, reddish-brown, and tan sandstone and conglomerate, Qts. South of San Fernando River, greenish-gray siltstone with interbedded sandstone and conglomerate, Tt. Interfingers with upper part of Pico formation)
- Tp: Pico formation (Light olive-gray and black-gray siltstone and fine-grained sandstone, light-brown and gray sandstone and conglomerate, Tt. Dominantly siltstone or very fine grained sandstone, Tt. Dominantly sandstone or very fine grained sandstone, Upper part interfingers with Saugus formation and lower part with Towsley formation. Megafossil lithologic units within the formation do not occur in any field stratigraphic position)
- Tt: Towsley formation (Brown siltstone and mudstone, light-brown and gray sandstone and conglomerate, Tt. Dominantly siltstone or mudstone unit, Tt. Dominantly sandstone or conglomerate unit, Tt. Upper part interfingers with Pico formation and lower part with Saugus formation. Megafossil lithologic units within the formation do not occur in any field stratigraphic position)
- Tm: Modelo formation (Brown or gray siltstone, mudstone, and siliceous shale with minor amounts of light-brown or gray sandstone and some light-gray limestone. Upper part interfingers with Towsley formation)
- Tmc: Mint Canyon formation (Greenish-gray or light-brown siltstone and mudstone, light-brown or gray mudstone and conglomerate. Thick beds, T)
- Tsc: Siltstone, sandstone, and conglomerate

**Tertiary**

**Igneous and Metamorphic Rocks**

- bc: Basement complex (Includes schist, gneiss, quartz, and marble; hornblende and biotite diorite gneiss; and glaucous igneous rocks ranging in composition from granite to quartz diorite)
- Landslide area

**Geologic boundary or position of mapped bed**  
Dashed where approximately located

**Fault, showing dip**  
Dashed where approximately located or inferred; dotted where concealed; queried where doubtful; U, upthrown side; D, downthrown side

**Fault, showing relative movement**  
Dashed where approximately located or inferred; dotted where concealed; T on upper plate

**Thrust fault**  
Dashed where approximately located or inferred; dotted where concealed; T on upper plate

**Anticline**  
Showing trace of axial plane and direction of plunge of axis. Dashed where approximately located; dotted where concealed

**Syncline**  
Showing trace of axial plane and direction of plunge of axis. Dashed where approximately located; dotted where concealed

**Overtured anticline**  
Showing trace of axial plane and direction of dip of limbs. Dashed where approximately located; dotted where concealed

**Overtured syncline**  
Showing trace of axial plane and direction of dip of limbs. Dashed where approximately located; dotted where concealed

**Strike and dip of beds**  
Location of measured section of the Towsley formation. Number referred to in text

**Strike and dip of overturned beds**  
Well being drilled  
Dry hole

**Strike of vertical beds**  
Figure 90 on top side of beds

**Horizontal beds**  
Producing oil well  
Shut-in oil well

**Apparent dip of beds, strike undetermined**  
Abandoned oil well

**Megafossil locality**  
Producing gas well

**Microfossil locality**  
Abandoned oil well converted to water well

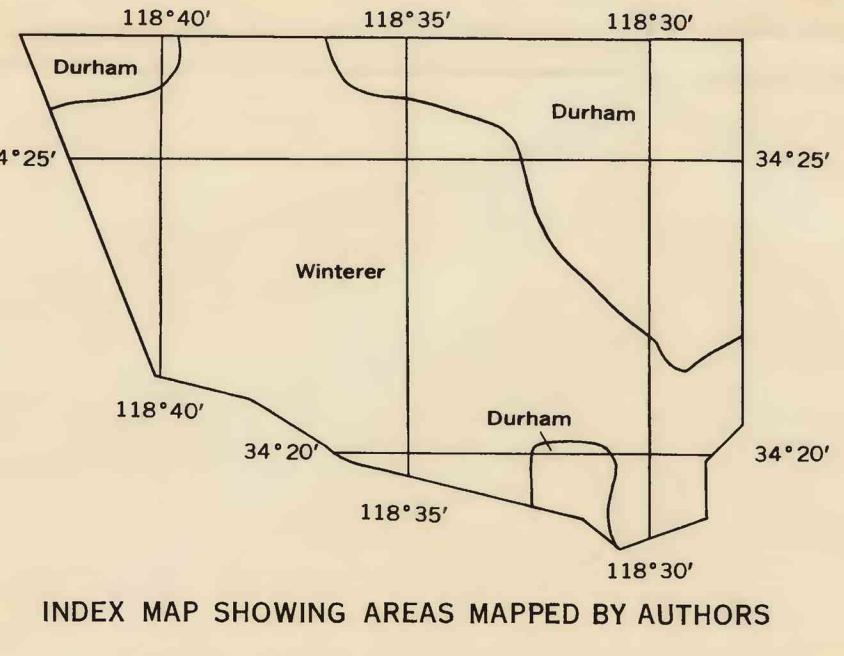
**Vertebrate fossil locality**  
Abandoned oil well converted to water drive well

**Location of foraminiferal section showing sample numbers**  
Dry hole converted to water drive well  
Well data as of March 1951

Note: See table 10 for data on numbered wells.

Wells mentioned in text or used in constructing structure sections, but not listed on wildcard table

Map symbol	Operator	Well	Field	On or near structure section
A	Breckinridge, B. B.	Reno 1	Placerita	B-B
B	Harrison and Stewart	No. 1	De Witt Canyon area of Newhall field	
C	do.	No. 3	do.	
D	Humble Oil and Refining Co.	Newhall Corp. 1	Castaic Junction	A-A'
E	do.	NLF 1	do.	A-A'
F	do.	NLF 2	do.	E-E'
G	do.	NLF 3	do.	A-A'
H	do.	NLF 5	do.	A-A'
I	do.	NLF 6	do.	A-A'
J	do.	NLF 8	do.	A-A'
K	Hurley-Kelley	Orduno 1	Ramona	A-A'
L	Morton and Dolley	Hilly 1	Newhall	B-B'
M	Newhall Land and Farming Co.	Socal 2	Del Valle	F-F'
N	Ohio Oil Co.	Vasquez 1	do.	A-A'
O	do.	Vasquez 13	do.	A-A'
P	Republic Petroleum Corp.	Fink 3	Whitney Canyon area of Newhall field	F-F'
Q	Sonavia and Yant	Juanita	Placerita	B-B'
R	Southern California Drilling Co.	Needham 1	Tunnell area of Newhall field	
S	Southern California Petroleum Co.	Vasquez 4	Del Valle	F-F'
T	Standard Oil Co.	Blair 7	do.	A-A'
U	do.	C.S.O.W. 2	Pico Canyon area of Newhall field	
V	do.	C.S.O.W. 12	do.	A-A'
W	do.	C.S.O.W. 13	do.	A-A'
X	do.	C.S.O.W. 32	do.	A-A'
Y	do.	Elsmere 2	Elsmere area of Newhall field	A-A'
Z	do.	Sepulveda 12	Del Valle	A-A'
AA	do.	Sepulveda 20	do.	A-A'
BB	do.	Wiley 4	Wiley Canyon area of Newhall field	
CC	do.	Wiley 18	do.	
DD	do.	Wiley 19	do.	A-A'
EE	do.	Wiley 25	do.	
FF	Sunray Oil Co.	RSP 1	Newhall-Potrero	B-B'
GG	do.	RSP 9-3	do.	E-E'
HH	do.	RSP 11	do.	E-E'
II	do.	RSP 22	do.	E-E'
JJ	do.	RSP 44	do.	B-B'
KK	do.	RSP 53-5	do.	E-E'
LL	do.	RSP 65-6	do.	B-B'
MM	do.	RSP 66	do.	
NN	do.	RSP 78	do.	
OO	do.	RSP 83	do.	
PP	do.	RSP 89	do.	
QQ	do.	RSP 91	do.	
RR	do.	RSP 97-7	do.	E-E'
SS	do.	RSP 99	do.	E-E'
TT	Texas Co.	Kern 1	Ramona	
UU	Trigood Oil Co.	Kinler	Del Valle	F-F'
VV	Union Oil Co.	Barnes 1	do.	F-F'
WW	do.	Barnes 2	do.	F-F'
XX	do.	Barnes 3	do.	F-F'
YY	do.	Barnes 4	do.	F-F'
ZZ	do.	Barnes 7	do.	F-F'
AAA	do.	Lincoln 1	do.	A-A'
BBB	do.	Lincoln 2	do.	A-A'
CCC	do.	Lincoln 16	do.	A-A'
DDD	do.	Lincoln 18	do.	A-A'
EEE	York Oil Co.	No. 1	Tunnell area of Newhall field	A-A'



GEOLOGIC MAP OF PART OF THE VENTURA BASIN, LOS ANGELES COUNTY, CALIFORNIA

