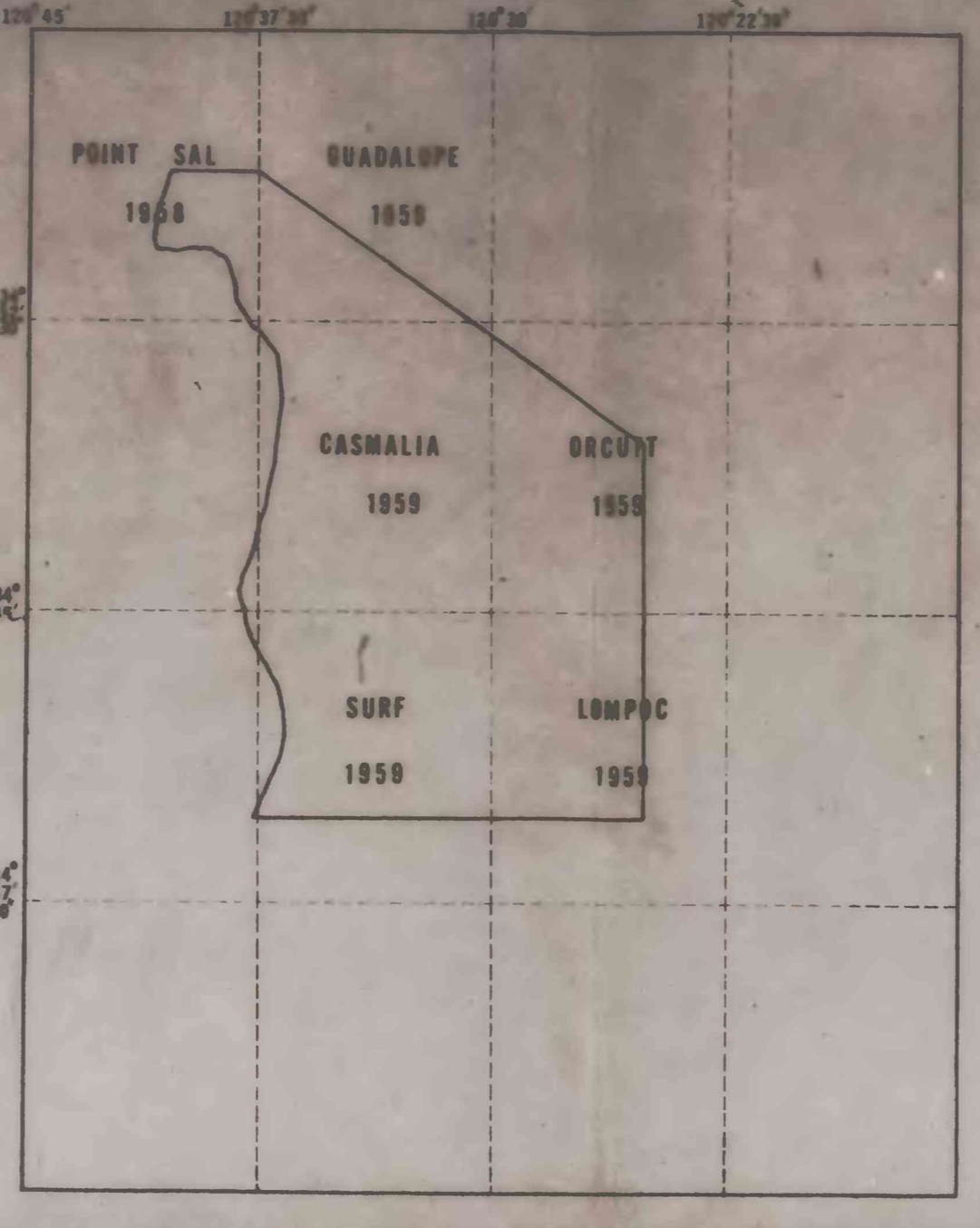


U.S. GEOLOGICAL SURVEY  
 WASHINGTON, D.C.  
 JUL 6 1956  
 LIBRARY



INDEX TO TOPOGRAPHIC QUADRANGLE MAPS

EXPLANATION

UNCONSOLIDATED DEPOSITS

- Recent**
  - Qa**  
Alluvium  
Gravel, sand, silt, and clay; permeable; where saturated yields water freely to wells
  - Qb**  
Windblown sand  
Windblown sand; in places anchored by vegetation; permeable; probably contains local perched-water bodies
  - Qc**  
Landslides  
Landslide and earthflow debris derived principally from adjacent consolidated rocks; where underlain by consolidated rocks contain small perched-water bodies
- Pleistocene**
  - Qt**  
Terrace deposits  
Gravel, sand, silt, and clay on marine and stream terraces; moderately permeable; in most places above the water table
  - Qs**  
Gravel Sand  
Gravel, sand, silt, and clay; moderately permeable; where saturated yields water to wells

- Pliocene and Pleistocene(?)**
  - Qtp**  
Paso Robles Formation  
Gravel, sand, silt, and clay; low permeability; yields water freely to deep wells
- Pliocene**
  - Qc**  
Cerega Sand  
Fine sand, silt, and some gravel; moderately permeable; where saturated yields water to wells

CONSOLIDATED ROCKS

- Tis**  
Sedimentary rocks  
Conglomerate, sandstone, siltstone, mudstone, shale, and diatomite; include Franciscan, Sierrita, Formation, Monterey Shale, Point Sal Formation, Lompac Formation, and Knoxville Formation; yield some water to wells from fractures
- Tm**  
Igneous and metamorphic rocks  
Include igneous and metamorphic rocks of Franciscan Formation of Jurassic and Cretaceous age and igneous rocks of probable Tertiary age; yield some water to wells from fractures and deeply weathered zones

SYMBOLS

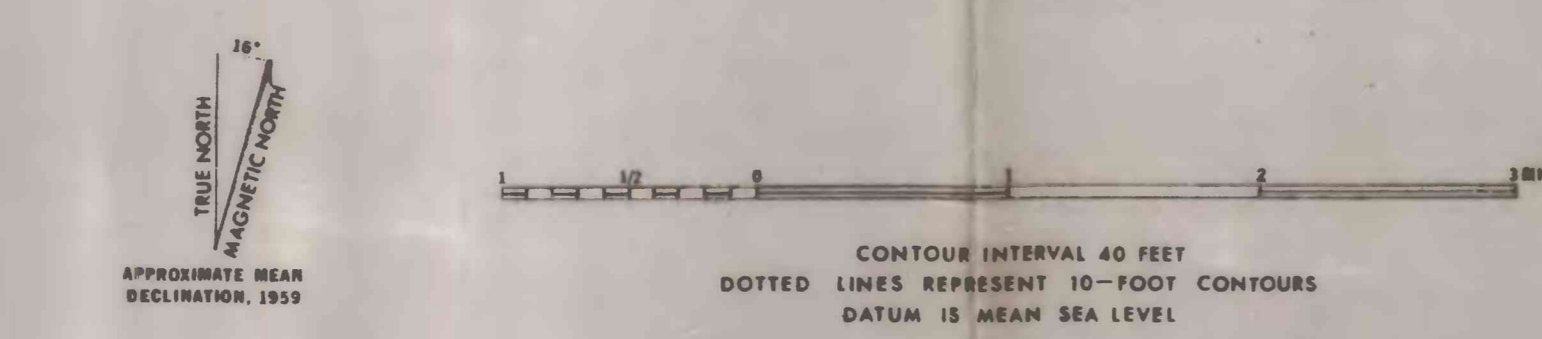
- Boundary of North Vandenberg area
- Approximate geologic contact
- Fault  
Dashed where approximately located.
- Anticline  
Showing crestline and direction of plunge, dashed where inferred
- Syncline  
Showing troughline and direction of plunge, dashed where inferred
- Supply well
- Observation well
- Area of ground-water discharge

WELL-NUMBERING SYSTEM

Letter after well indicates position in section, thus:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

For a complete description of well-numbering system, see text



MAP OF THE NORTH VANDENBERG AREA, VANDENBERG AIR FORCE BASE, CALIFORNIA,  
 SHOWING GEOLOGY AND LOCATION OF WELLS