PRELIMINARY GEOLOGIC AND STRUCTURAL MAP OF THE COALINGA DISTRICT, CALIFORNIA

Geology by Ralph Arnold and Robert Anderson

Surveyed in 1907

1 ½ 0 1 2 3 4 5 miles

SYMBOLS

- Anticline
- Anticline where doubtful
- Syncline
- Syncline where doubtful
- Anticline plunging
- Syncline plunging
- Anticline overturned
- Fault zone
- Dip and amount (e.g. 70°)
- Horizontal beds
- Oil wells not operating
- Oil seepages
- Contacts
- Contacts where doubtful
- Limits of possible productive territory

LEGEND

SEDIMENTARY ROCKS

QUATERNARY

- Alluvium and terrace deposits (*Shown only in larger valleys*)

UNCONFORMITY

TERTIARY

Pliocene Pleistocene Recent

- Paso Robles formation (*Sands, clays, gravels, sandstone, and some calcareous seams*)

UNCONFORMITY

Miocene

- Etchegoin formation (*Sands, clays, pebble beds, sandstone, and some siliceous and calcareous shale*)

UNCONFORMITY

- Jacalitos formation, including some Vaqueros and Santa Margarita between Oil Canyon and the San Joaquin coal mine and possibly also in the Jacalitos Hills (*Sands, clays, pebble beds, sandstone, and some siliceous and calcareous shale*)

UNCONFORMITY

- Santa Margarita formation (*Sands, clays, serpentinous shale and conglomerate, and sandstone with fossil beds, north of Waltham Creek; unfossiliferous siliceous, argillaceous, and calcareous shales south of creek only doubtfully referred to this formation*)

UNCONFORMITY

- Vaqueros sandstone, possibly including some Jacalitos in the Alcalde Hills (*Sandstone, conglomerate, sand, diatomaceous and clay shale, and gravel*)

UNCONFORMITY

Eocene

- Tejon formation (*Sandstone, sand, clay, gravel, and siliceous and calcareous diatomaceous and foraminiferal shale*)

UNCONFORMITY

CRETACEOUS

- Knoxville-Chico (*Sandstone, shale, and conglomerate*)

UNCONFORMITY

JURASSIC?

- Franciscan formation (*Sandstone, shale, jasper, glaucophane schist, etc.*)

IGNEOUS ROCKS

PRE-TERTIARY

- Serpentine (*Associated with the Franciscan*)
- Syenite

ANDREW B. GRAHAM CO., LITHOGRAPHERS, WASHINGTON, D. C.