STRUCTURE CONTOUR MAP OF EXPOSED FORMATIONS IN THE KETTLEMAN HILLS, CALIFORNIA WITH STRUCTURE SECTIONS AND GENERALIZED STRATIGRAPHIC SECTION

Scale about

1 1 0 1 Mile

5000 2500 0 5000 Feet

1 1 0 1 Kilometer

1940

EXPLANATION

QUATERNARY

Pleistocene (?) and Recent

Qal — Alluvium

TERTIARY

Pliocene

Tt — Tulare formation

Tsj — San Joaquin formation

Miocene

Te — Etchegoin formation (lt, *Littorina* zone, North Dome; psa, *Pseudocardium-Anadara* zone, Middle and South Domes)

Structure contours drawn on *Littorina* zone of Etchegoin formation in North Dome and on *Pseudocardium-Anadara* zone of Etchegoin formation in Middle and South Domes. Contours shown by solid lines, although based on mapping of varying degrees of certainty; question marks indicate inferred position. Contours based on assumption of parallel folding. Contour intervals 100 and 500 feet, but at places on crest of North Dome contours at intervals of 50 feet and 25 feet are shown by broken lines. Datum is mean sea level

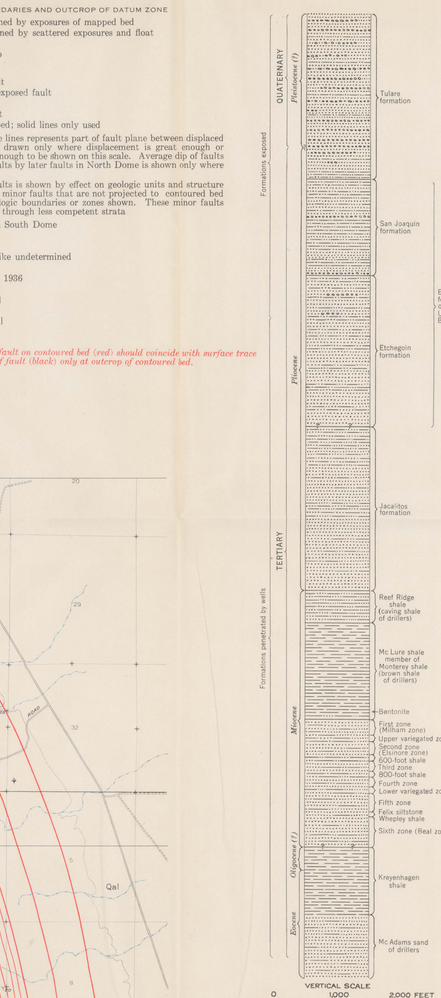
GEOLOGIC BOUNDARIES AND OUTCROP OF DATUM ZONE

- Boundary or outcrop determined by exposures of mapped bed
- Boundary or outcrop determined by scattered exposures and float
- Inferred boundary or outcrop
- Doubtful boundary or outcrop

FAULTS

- Surface trace of exposed fault
- Surface trace of imperfectly exposed fault
- Surface trace of inferred fault
- Surface trace of doubtful fault
- Trace of fault on contoured bed; solid lines only used
- Stippled space between double lines represents part of fault plane between displaced edges of contoured bed; drawn only where displacement is great enough or dip of fault plane is low enough to be shown on this scale. Average dip of faults 60°. Displacement of faults by later faults in North Dome is shown only where it was observed
- Apparent displacement on faults is shown by effect on geologic units and structure contours, except on some minor faults that are not projected to contoured bed and do not intersect geologic boundaries or zones shown. These minor faults probably fail to continue through less competent strata
- Crest of anticline; omitted on South Dome
- Axis of syncline
- Strike and dip of beds
- Approximate dip of beds, strike undetermined
- Horizontal beds
- Well being drilled December 1936
- Uncompleted, idle well
- Uncompleted, abandoned well
- Completed oil well
- Completed, abandoned oil well

Note—Trace of fault on contoured bed (red) should coincide with surface trace of fault (black) only at outcrop of contoured bed.



GENERALIZED STRATIGRAPHIC SECTION IN NORTH DOME

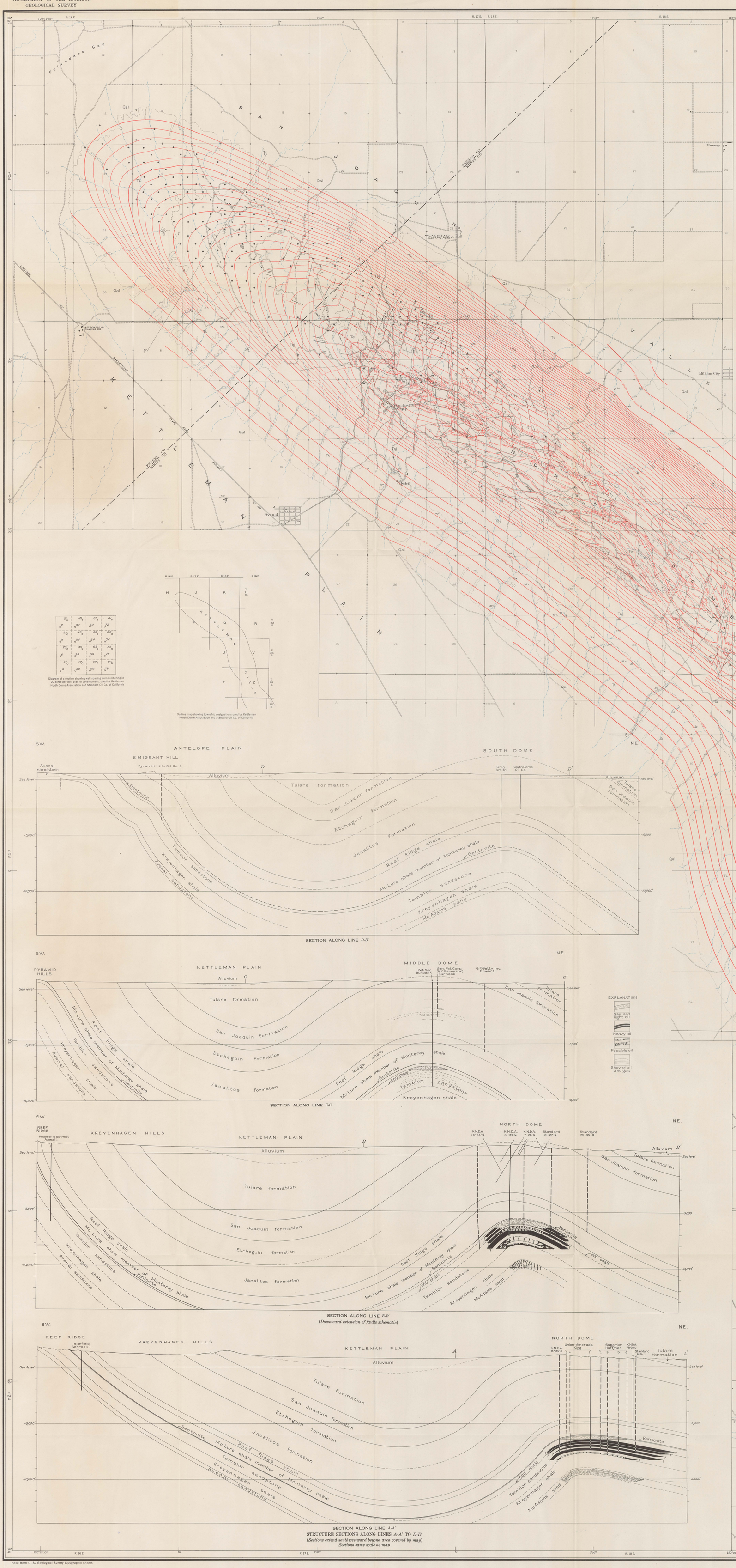
SECTION ALONG LINE D-D'

SECTION ALONG LINE C-C'

SECTION ALONG LINE B-B'
(*Downward extension of faults schematic*)

SECTION ALONG LINE A-A'

STRUCTURE SECTIONS ALONG LINES A-A' TO D-D'
(*Sections extend southwestward beyond area covered by map*)
Sections same scale as map



Base from U. S. Geological Survey topographic sheets