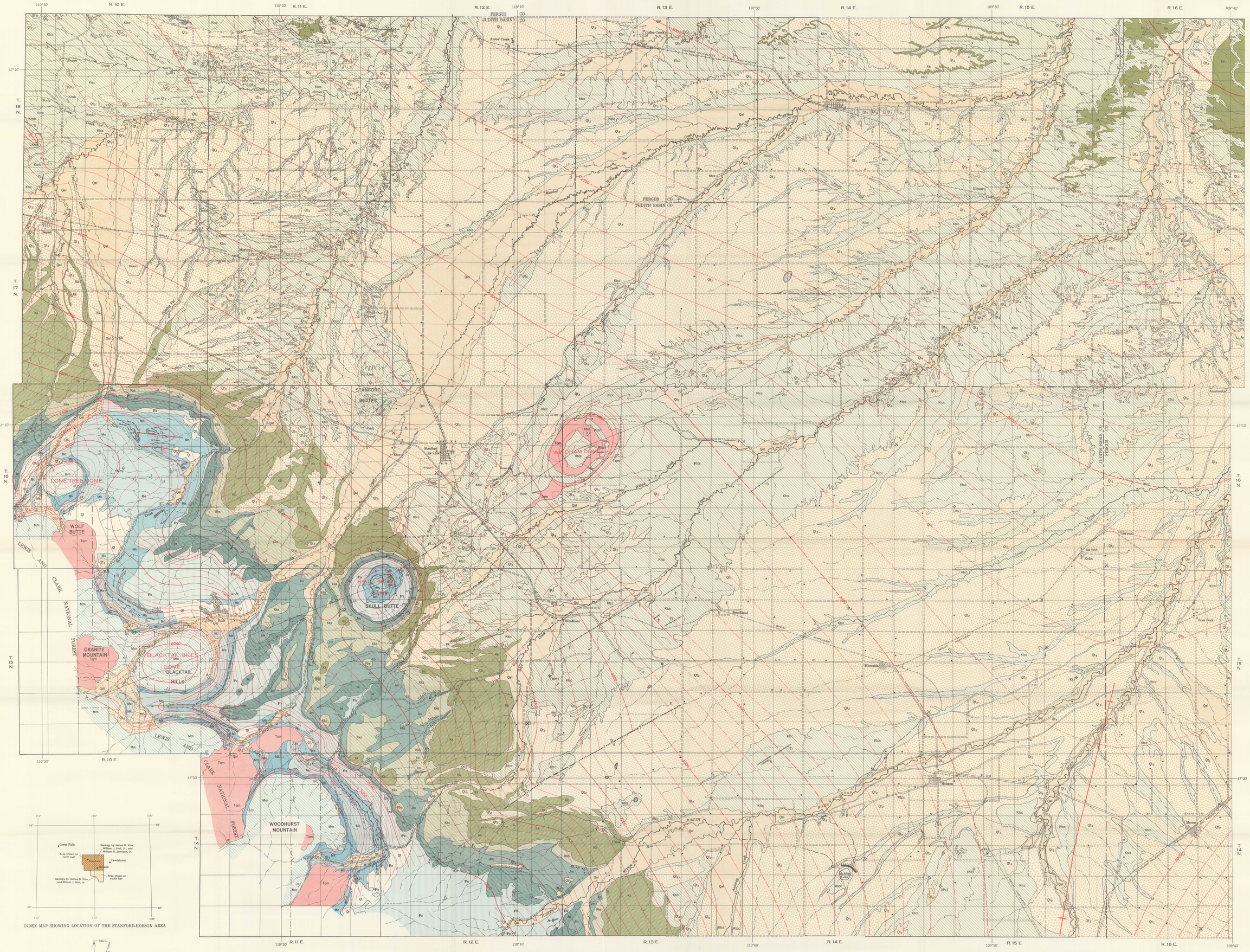
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



INDEX MAP SHOWING LOCATION OF THE STANFORD-HOBSON AREA

EXPLANATION

QUATERNARY

- Ql — Landslide
- Qal — Alluvium
- Qt₅, Qt₄, Qt₃, Qt₂, Qt₁ — Terrace deposits

TERTIARY

- Tqm — Quartz monzonite porphyry
- Tl — Dark-colored dike rock

CRETACEOUS

Upper Cretaceous

- Kjr — Judith River formation
- Kcl — Claggett shale
- Ke — Eagle sandstone
- Kbc, Kmb — Colorado shale and Telegraph Creek formation. *Bentonite bed; Kmb, equivalent to part of the Mowry shale*

Lower Cretaceous

- Kk, Kks — Kootenai formation, Kk. *Basal sandstone mapped separately Kks*

JURASSIC

Upper Jurassic

- Jm — Morrison formation

Middle Jurassic

Ellis group

- Je — Swift, Rierdon, and Piper formations undivided

PENNSYLVANIAN

- Pa — Amsden formation

MISSISSIPPIAN

Big Snowy group

- Mh — Heath shale
- Mo — Otter formation
- Mk — Kibbey sandstone

CARBONIFEROUS

- Mm — Madison limestone

Contact
Dashed where inferred, dotted where concealed

Fault
Dotted where concealed
U, *upthrown side*; D, *downthrown side*

Inferred fault

Anticline showing trace of axial plane

Syncline showing trace of axial plane

Strike and dip of beds

Dry hole

Dry hole
Show of oil

Dry hole
Show of oil and gas

(Mm)
Formation symbol
Indicates lowest formation reached in well

2000
Structure contours drawn on or projected to a datum plane on top of the Kootenai formation
Dashed where approximately located
Contour interval 100 feet
Datum is mean sea level

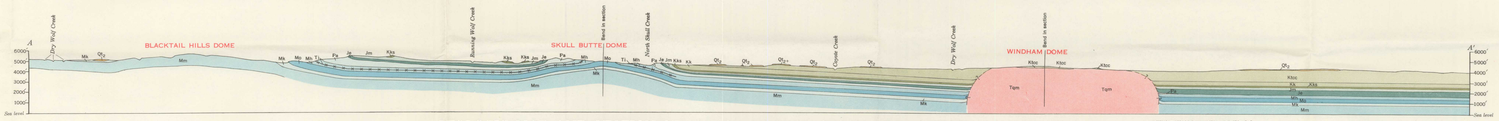
BM 4140
Bench mark

Gravel pit

Quarry or coal prospect

Dam

Irrigation ditch



GEOLOGIC MAP AND SECTION OF THE STANFORD-HOBSON AREA, CENTRAL MONTANA

Scale 1:62,500

1 0 4 Miles