GEOLOGIC MAP
OF THE
SALT VALLEY ANTICLINE
AND THE
ADJACENT AREAS
GRAND COUNTY, UTAH

Geology by C. H. Dane and E. T. McKnight, assisted by
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Scale 62,500

1 0 3 Miles

1935

EXPLANATION

QUATERNARY

Recent

Qal Qds — Alluvium (Valley fill and dune sand)

CRETACEOUS

Upper Cretaceous

Km Kmd Km — Mancos shale (Gray calcareous shale, with Ferron sandstone member, Emery sandstone member, calcareous and sandy shale)

Kd — Dakota (?) sandstone (Buff and gray sandstone, conglomeratic, and sandy shale, locally carbonaceous)

UNCONFORMITY

JURASSIC

Upper Jurassic

San Rafael group

Jm — Morrison formation (Variegated shale and marl, white and gray sandstone, and conglomeratic; local thin limestone lenses. Includes Salt Wash sandstone member with more resistant and thicker sandstone beds)

Js — Summerville formation (Thin-bedded red sandstone and sandstone, locally with large chert nodules)

Jem — Entrada sandstone (Medium-grained massive-bedded sandstone banded orange, buff, and white, with Moab sandstone member, left, white medium-grained sandstone, massive and cross-bedded, at top)

Jc — Carmel formation (Red sandstone and sandstone, locally with bedding greatly contorted)

UNCONFORMITY (?)

JURASSIC (?)

Glen Canyon group

Jn — Navajo sandstone (Buff and gray cross-bedded sandstone with locally thin beds of gray limestone)

Jk — Kayenta formation (Irregularly bedded and cross-bedded fine- to coarse-grained gray and lavender sandstone, red shale and sandy shale, limestone, and shale-pellet conglomerate)

Jw — Wingate sandstone (Fine-grained buff cliff-forming sandstone, thick-bedded, massive and cross-bedded)

TRIASSIC

Upper Triassic

Rc — Chinle formation (Cherry-red sandy shale, buff and red sandstone, mud-pellet and limestone conglomerate, locally a basal bed of coarse lavender quartz-pebble conglomerate at the base)

UNCONFORMITY

Lower Triassic

Jem — Moenkopi formation (Chocolate-brown sandy shale, ripple-bedded brown to gray sandstone; brown and gray arkosic grit and conglomerate)

UNCONFORMITY

CARBONIFEROUS

Permian

Pc — Cutler formation (Maroon and red conglomerate, arkosic grit, and sandy sandstone)

Pennsylvanian

Ch — Hermosa formation (Green-gray sandstone, red sandy shale and sandstone, gray urbane and conglomeratic, and blue and gray fossiliferous limestone)

Cp — Paradox formation (Gray sandstone and sandy shale, gray limestone, and black fissile shale and salt. Upthrust masses outlined by heavy lines)

Pennsylvanian (?)

Ccg — Unnamed conglomerate (Boulders contain Mississippian fossils. Exposed at two localities in Salt Valley)

UNCONFORMITY

PRE-CAMBRIAN

pre C — Gneiss, schist, granite, and pegmatite

Normal fault showing downthrown side

Strike and dip of bed

Strike of vertical bed

Strike and dip of overturned bed

Well being drilled

Dry hole

Dry hole with show of oil and gas

Dry hole with show of gas

Dry hole with show of oil

Abandoned mine

Prospect

x4360 Altitude above sea level

Section corner located

Township corner located

Base compiled from township plats of the U.S. General Land Office and field sheets of the U.S. Geological Survey, 1927 and 1929

FOURTH STANDARD PARALLEL SOUTH

GRAND VALLEY

SALT VALLEY

COLORADO RIVER

GRAND RIVER MERIDIAN

GRAND CO. MESA CO.

COLORADO

R.19E. R.20E. R.21E. R.22E. R.23E. R.24E. R.25E. R.26E.

T.21S. T.22S. T.23S. T.24S. T.25S.

Thompson, Crescent, Vista, Sagers, Elba, White House, Cisco, Mack, Utaline, Cato, Cotterwood, Agate, Little Hole, Jones Canyon, Westwater, Dewey, Loma, Fruita, Grand Junction, Colorado

Valley City, Willow Flats, Salt Valley, Elephant Butte, Natural Bridges, Sachs Valley, Pariott Mesa, Monument Wash, Squaw Park, Cedar Spring, Hittel Ranch, Stearns Ranch, Richardson Amphitheater, Fisher Valley, Steamboat Mesa, Polar Mesa, The Sand Flat, Mc Graw Bottom, Hote Bottoms, Marble Canyon, Rattlesnake Canyon, Dry Wash, Ryan Wash, Cow Canyon, Cowskin Canyon, Bitter Creek, Rattlesnake Creek, Beaver Creek, Thurlby Wash, Crescent Wash, Cisco Wash, Pinto Wash, Monument Wash, Owl Wash, Cedar Canyon, Wedge Canyon, Weaning Canyon, Thompson Canyon, Beaver Canyon, Big Dune

Herbert Ranch, J. Pace Ranch, Westwater, Malin Ranch, Davies Ranch, Agate Spring, Cotterwood Spring, Ballet Ranch, Knowles Ranch, Mellor Ranch, Big Hole, Gen Gordon Ranch, Dewey, Loma, Fruita, Hittel Ranch, Stearns Ranch, Hubbard Ranch, Woraham Ranch, Jones Well, Travis et al Ella Radatz No.1, Hore Syndicate No.1, Crescent Oil Syndicate No.1, Crescent Oil Co. No.1, Springfield Oil and Gas Co. No.1, Sinclair Oil Co. Mandall No.1, Armstrong No.1, Cisco Oil Rex Co. Booth Island No.1, Arizona-Utah Oil and Gas Co. No.1, Cisco Oil Rex Co. No.1, Cisco Oil Rex Co. No.2, Cisco Oil Rex Co. Wells No.3, Peerless Oil Co., Utah Southern Oil Co. State No.1, Utah Southern Oil Co. No.1, Sinclair Oil Co. Salsbury No.1, U.S. Government Test No.1, Barcoo-Mavericks Potash Prod. Co. No.1, Barcoo-Mavericks Potash Prod. Co. No.2, Barcoo-Mavericks Potash Prod. Co. No.3, Barcoo-Mavericks Potash Prod. Co. No.4, Barcoo-Mavericks Potash Prod. Co. No.5, Barcoo-Mavericks Potash Prod. Co. No.6, Barcoo-Mavericks Potash Prod. Co. No.7, Barcoo-Mavericks Potash Prod. Co. No.8, Barcoo-Mavericks Potash Prod. Co. No.9, Barcoo-Mavericks Potash Prod. Co. No.10, Barcoo-Mavericks Potash Prod. Co. No.11, Barcoo-Mavericks Potash Prod. Co. No.12, Barcoo-Mavericks Potash Prod. Co. No.13, Barcoo-Mavericks Potash Prod. Co. No.14, Barcoo-Mavericks Potash Prod. Co. No.15, Barcoo-Mavericks Potash Prod. Co. No.16, Barcoo-Mavericks Potash Prod. Co. No.17, Barcoo-Mavericks Potash Prod. Co. No.18, Jones Well (Location Approximate), Horace Mine, Copper Prospects

WILLIAMS & HEINTZ CO. WASH., D. C.