Summer Field Work in Utah

The following is an alphabetized list of geologists who will work in Utah during the 1969 field season. While the reference number in the left column corresponds with the location number for a particular project on the accompanying map, some projects obviously could not be pinpointed in this way.

1. Anzalone, S. A.
   Uranium Div.
   American Smelting and Refining Co.
   General uranium exploration.

2. Averitt, P. and
   Threet, R. L.
   USGS
   Areal geologic mapping; Cedar City 7½-minute quadrangle, Iron County, Utah.

3. Best, M. G.
   BYU
   Kern Mountain geology, western Juab County; basalt petrology, St. George area.

4. Beus, S. S.
   Northern Univ.
   Devonian stratigraphy; northwestern Arizona, SW corner of Utah.

5. Biesinger, J. C.
   Utah State Univ.
   Geochemical aspects of Bear Lake sediments, Utah-Idaho.

6. Birdwell, G. A.
   USGS
   Streamflow ground-water observation well map work, collection of water quality data, Moab.

7. Bjorklund, L. J.
   USGS
   Ground-water resources of Cache Valley, Utah-Idaho.

8. Bowers, W. E.
   USGS
   Geology and coal resources of the Canaan Peak quadrangle, Garfield and Kane Counties.
   Uranium-bearing pipes.

9. Bowles, C. G.
   USGS
   Paleobotany of the Cutler Formation, Monument Valley.

10. Breed, W. J.
    Museum of Northern Arizona
    Park City mining district.

11. Bromfield, C. S.
    USGS
    Zonation of Cretaceous of southern Utah with spores and pollen; area east of Bryce Canyon.

12. Bushman, J. R.
    BYU
    Regional variation in heavy metals of Colorado Plateau stratified rocks.

13. Cadigan, R. A.
    USGS
    2. Grand Junction quadrangle, Utah-Colorado.

14. Cashion, W. B.
    USGS
    Structural geology of Raft River Range, Yost and Park Valley quadrangles, Box Elder County, Utah.

15. Compton, R. R.
    Stanford Univ. — USGS
    North flank Uinta Mountains — east and west fork, Smith’s Fork.

16. Crockett, D. H.
    U.S. Forest Service
    Younger Precambrian rocks of north Wasatch, Huntsville, north Ogden, and Mantua quadrangles.

17. Crittenden, M. D., Jr.
    USGS
    Structural geology of southeastern margin of Bear River Range, Bear Lake County, Idaho.

18. Davis, C. L.
    Utah State Univ.
    Younger Precambrian rocks of north Wasatch, Huntsville, north Ogden, and Mantua quadrangles.

19. Doelling, H. H.
    UG&MS
    1. Completion of Paria I NE, Straight Cliffs 2 NW and 2 NE coal quadrangles.
    Mineral inventory of Wayne and Kane Counties.
    Petrology of the Eocene Green River Formation and associated rocks in Utah, Colorado and Wyoming.
    Coring the Lower Peistocene and upper Pliocene sediments of the Great Salt Lake.
    Subsurface stratigraphy; study of cuttings from pertinent oil tests. San Juan Basin — may extend into southeast Utah.

20. Dyni, J. R.
    USGS
    Environmental analysis of Swan Peak Formation, northern Utah and southern Idaho.
    1. Wasatch-Uinta field camp—mapping and reconnaissance studies in Uints and Wasatch near Park City.
    2. Appraisal of water resources Kane and Garfield Counties — continuing studies under University research program.
25 Grant, S. K. 
Univ. of Missouri at Rolla
Stratigraphy of the Needles Range Formation; Beaver and surrounding counties (M.S. thesis).

26 Hadley, R. F. 
USGS
Basic processes of erosion.

27 Hamblin, W. K. 
BYU
Stratigraphy and volcanic history of St. George basin; volcanic history of Zion National Park, Washington County.

28 Hardy, C. T. 
Utah State Univ.
Structural geology of James Peak quadrangle, Utah.

29 Hardy, C. T. 
Utah State Univ.
Structural geology of Malad and Bannock Ranges, Utah-Idaho.

30 Hely, A. G. 
USGS
Water resources of Salt Lake County. Detailed consideration of the valley fill in the Jordan Valley.

31 Heyl, A. V., Jr. 
USGS
Compilation of mineral resource map of Utah.

32 Hilpert, L. S. 
USGS
Utah heavy metals studies.

33 Hintze, L. F. 
BYU
Wasatch Mountains east of Provo.

34 Howd, F. H. 
Kennebec Copper Corp., Tintic Div.
Dispersion of trace elements around Iron Blossom ore body.

35 Hunt, C. B. 
John Hopkins Univ.
Physiography of part of the Henry Mountain region, Utah.

36 Jibson, W. N. 
USGS
Streamflow ground-water observation well map work, collection of water quality data, Logan.

37 Kaliser, B. N. 
UG&MS
Scope stability and landslides in or near urban areas in Utah.

38 Kaliser, B. N. 
UG&MS
Bear Lake environmental geology.

39 Kaliser, B. N. 
UG&MS
Fault dating, Wasatch Front.

40 Lakin, H. W. 
USGS
Geochemistry of silver and gold in Utah, Arizona, Colorado, and Nevada.

41 Linn, K. O. and Evans, R. 
Texas Gulf Sulphur Co.
Folding in the potash beds, Paradox Basin; to be presented at Third Salt Symposium.

42 Mackenzie, G., Jr. 
USGS
Upper Paleozoic cephalopods.

43 Maurer, R. E. 
Oswego State College
Geology of the Cedar Mountains, Tooele County, Utah (Ph.D. thesis).

44 McClurg, L. W. 
Utah State Univ.
Erosion and sedimentation of North Eden Creek, Utah-Idaho.

45 McConkie, W. 
USGS
Streamflow ground-water observation well map work, collection of water quality data, Richfield.

46 Morisawa, M. 
USGS
Strip maps of Wasatch fault zone, Nephi to Logan. Photo interpretation, reconnaissance, and detailed field checking.

47 Morris, H. T. 
USGS
Geology and ore deposits of the Cherry Creek and Maple Peak quadrangles, Utah. Southern parts of Sheeprock and West Tintic Mountains.

48 Osterwald, F. W. 
USGS
Coal mine bumps. Mapping of the Woodside quadrangle; investigations of any major bumps at Sunnyside; reconnaissance of Kaiparowits Plateau coal field.

49 Olson, A. B. 
USGS
Photogeologic mapping, Colorado Plateau.

50 O'Sullivan, R. B. 
USGS
Navajo Reservation.

51 Peterson, F. 
USGS
Coal in the Kaiparowits.

52 Raup, O. B. 
USGS
Paradox Basin salt studies. Petrographic, geochemical, and X-ray studies of well core and mine samples and surface samples from Cane Creek and Pine Ridge areas.

53 Ritzm, H. R. and Gwynn, J. W. 
UG&MS
Studies of oil-impregnated sandstone. Mapping and sampling; central Uinta Basin; southern Uinta Basin; north end San Rafael Swell; Devil River area; White Canyon area, and miscellaneous localities. Oil shale: collection of high-grade samples in selected Uinta Basin localities. Petroleum: collection of crude oil samples from all fields in State.

54 Robison, R. A. 
Univ. of Utah
Basal Cambrian carbonates in Utah.

55 Sandberg, C. A. 
USGS
Williston Basin oil and gas investigations.

56 Sandberg, G. W. 
USGS
Streamflow ground-water observation well map work, collection of water quality data.

57 Shuey, R. T. 
USGS
Paleomagnetism of Oligocene ignimbrites, Utah high plateaus.

58 Smith, R. B. 
Univ. of Utah
Late summer: Great Salt Lake, seismic reflection and magnetometer survey. Midsummer: micro-earthquake monitoring in selected sites in Utah, in cooperation with Lamont-Doherty Geological Observatory.

59 Sumison, C. T. 
USGS
Hydrologic investigation of the Spanish Valley (Moab) area, Grand and San Juan Counties.

60 Sumison, C. T. 
USGS
Water-resources studies in national parks, monuments, and historic sites. Mule Ear area.

61 Stuart-Alexander, D. E. 
USGS
Geology of the Oquirrh Mountains and Bingham mining district.

62 Tooker, E. W. 
USGS
Geology of Salt Lake City and vicinity, Utah.

63 Vanhorn, R. 
USGS
Surficial geology of Oak City area.

64 Varnes, D. J. 
USGS
Stratigraphy of the Uinta Mountain Group.

65 Wallace, G. A. 
USGS
Stratigraphy and petrology of Flagstaff Formation, Wasatch Plateau.

66 Weiss, M. P. 
Northern Illinois Univ.
Surficial geology of part of southern Cache and Box Elder Counties, Utah.

67 Williams, J. S. 
Utah State Univ.
Geologic map, Colorado Plateau.

68 Wyant, D. G. 
USGS
Coal resources, Kaiparowits Plateau, SE corner areas being mapped.

69 Zeller, H. D. 
USGS
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Kennecott Copper Corp. — Great Salt Lake Authority tailings tests: Suekawa, H. S.

Geochronology
Potassium-argon dates of intrusion, volcanism and ore deposition: Moore, W. J.

Isotope Geology
Bingham Canyon lead isotope ratios: Stacey, J. S.

SAN JUAN COUNTY
Geologic Map
Hatch Point quadrangle: Hinrichs, E. N. -1, 2

Oil and Gas
Four Corners region, Paleozoic rocks: Picard, M. D. -1
Lisbon field, Paleozoic rocks: Parker, J. M.

SANPETE COUNTY
Paleontology
Paleocene gastropods, Flagstaff Formation: Baldy, M. B.

SEDIMENTARY PETROLOGY
Paradox Basin
Genesis and diagenesis — carbonate mound reservoirs: Peterson, J. A.

Uinta Basin
Sedimentary cycles, Green River Formation: Picard, M. D. -2

Uinta Mountains
Structures and paleocurrents, Triassic, Gartra Member: McCormick, D. C.

Utah County
Pyrophyllite-bearing clay, Clinton deposits: Henderson, G. V.

Utah, SE
Salt anticline region halite: Jones, C. L.
SEDIMENTATION
Utah, NC
Profile across Wasatch trench: Cook, K. L.
Utah, NE
Rocky Mountain structures: Eardley, A. J.
Utah, S
General study, Permian: Hallgarth, W. E.
Utah, SW
Sevier orogenic belt: Armstrong, R. L. -1
Utah, W
Cordilleran miogeosyncline: Armstrong, R. L. -2
Washington County
Hurricane Cliffs: Watson, R. A.

SUMMIT COUNTY
Engineering Geology
Landslide, Park City: Kaliser, B. N.

GEOMORPHOLOGY
Regional
Paradox basin: Peterson, J. A.
Tertiary
Central and south central continental sediments: Schneider, M. C.
Southwestern Utah, Quichapa Formation: Williams, P. L.
Upper Cretaceous-Lower Tertiary
Uintah County, Raven Ridge: Catacosinos, P. A.
Utah, C
Lower Pennsylvanian, Lake Mountains: Tidwell, W. D. -1, 2
Sanpete-Sevier Valley anticline: Gunderson, W. C.

STRUCTURAL GEOLOGY
Carbon County
Gravitational gliding near Soldier Summit: Moussa, M. T.
Lake Bonneville
Test of mantle viscosity and strength by transient earth loads: Crittenden, M. D., Jr.
Paradox Basin
Permian salt anticlines: Cater, F. W.; Shoemaker, E. M.
Upheaval Dome: Mattox, R. B. -1
Utah, C
Sanpete-Sevier Valley anticline: Gunderson, W. C.
Utah, N
Permian, middle Rocky Mountains and northeast Great Basin: Sheldon, R. P.

SILURIAN
Paleontology
Western Utah sponges: Rigby, J. K. -1

STRATIGRAPHY
Cambrian
Northern Utah: Rigo, R. J.
Western Utah, Silver Mountains: Robison, R. A.
Devonian
Great Basin conodont diachronism: Clark, D. L. -2
Great Basin conodont zonation: Clark, D. L. -1
Eocene
Uinta basin, Green River Formation: Picard, M. D. -2
Paleozoic
Samaria Mountain, Box Elder County: Beus, S. S.
Permian
Phosphoria, Park City and Shedhorn Formations, Utah: Yochelson, E. L.
Western Utah: Barosh, P. J.
Precambrian
Regional
Paradox basin: Peterson, J. A.
Tertiary
Central and south central continental sediments: Schneider, M. C.
Southwestern Utah, Quichapa Formation: Williams, P. L.
Upper Cretaceous-Lower Tertiary
Uintah County, Raven Ridge: Catacosinos, P. A.
Utah, C
Lower Pennsylvanian, Lake Mountains: Tidwell, W. D. -1, 2
Sanpete-Sevier Valley anticline: Gunderson, W. C.

CHAPTER 6
Geologic considerations of the Great Basin:

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Utah, SE
Areal Geology
Utah, NC
Paleontology
Uintah County, Raven Ridge, Upper Cretaceous-Lower Tertiary: Catacosinos, P. A.
Utah, S
Areal Geology
Uintah County, Raven Ridge: Catacosinos, P. A.

TERTIARY
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Southwest Utah: Williams, P. L.
Paleontology
Sanpete County, Eocene molluscs, Flagstaff Formation: Baldy, M. B.
Stratigraphy
Central and south central Utah continental sediments: Schneider, M. C.
Southwestern Utah: Williams, P. L.
Uintah County, Raven Ridge: Catacosinos, P. A.

TOOELE COUNTY
Hydrology
Skull Valley, reconnaissance: Hood, J. W.

TRIASSIC
Sedimentary Petrology
Uinta Mountain area, Gartra Member: McCormick, C. D.

UNITA BASIN
Economic Geology
Economics of gas development: Folsom, L. W.
Geochemistry
Organic metal complexes: Houghton, R.H.
Ground-Water Geology
Green River Formation: Feltis, R. D. -1
Oil and Gas
Cenozoic natural gas: Osmond, J. C.
Paleontology
Eocene rodent: Black, C. C.
Sedimentary Petrology
Cycles in Green River Formation: Picard, M. D. -2
Stratigraphy
Eocene, Green River Formation: Picard, M. D. -2

UNITA MOUNTAINS
Sedimentary Petrology
Gartra Member sediment structures and paleocurrents: McCormick, C. D.

COUNTRY
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Areal Geology
Uintah County, Raven Ridge: Catacosinos, P. A.
Utah, S
Areal Geology
Uintah County, Raven Ridge: Catacosinos, P. A.

TERTIARY
Igneous Petrology
Southwest Utah: Williams, P. L.
Paleontology
Sanpete County, Eocene molluscs, Flagstaff Formation: Baldy, M. B.
Stratigraphy
Central and south central Utah continental sediments: Schneider, M. C.
Southwestern Utah: Williams, P. L.
Uintah County, Raven Ridge: Catacosinos, P. A.

TOOELE COUNTY
Hydrology
Skull Valley, reconnaissance: Hood, J. W.

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Sedimentary Petrology
Uinta Mountain area, Gartra Member: McCormick, C. D.

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Economic Geology
Economics of gas development: Folsom, L. W.
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Organic metal complexes: Houghton, R.H.
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Green River Formation: Feltis, R. D. -1
Oil and Gas
Cenozoic natural gas: Osmond, J. C.
Paleontology
Eocene rodent: Black, C. C.
Sedimentary Petrology
Cycles in Green River Formation: Picard, M. D. -2
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UNITA MOUNTAINS
Sedimentary Petrology
Gartra Member sediment structures and paleocurrents: McCormick, C. D.

COUNTRY
Areal Geology
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TERTIARY
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Southwest Utah: Williams, P. L.
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Sanpete County, Eocene molluscs, Flagstaff Formation: Baldy, M. B.
Stratigraphy
Central and south central Utah continental sediments: Schneider, M. C.
Southwestern Utah: Williams, P. L.
Uintah County, Raven Ridge: Catacosinos, P. A.

TOOELE COUNTY
Hydrology
Skull Valley, reconnaissance: Hood, J. W.

TRIASSIC
Sedimentary Petrology
Uinta Mountain area, Gartra Member: McCormick, C. D.

UNITA BASIN
Economic Geology
Economics of gas development: Folsom, L. W.
Geochemistry
Organic metal complexes: Houghton, R.H.
Ground-Water Geology
Green River Formation: Feltis, R. D. -1
Oil and Gas
Cenozoic natural gas: Osmond, J. C.
Paleontology
Eocene rodent: Black, C. C.
Sedimentary Petrology
Cycles in Green River Formation: Picard, M. D. -2
Stratigraphy
Eocene, Green River Formation: Picard, M. D. -2
Structure
Sanpete-Sevier Valley anticline, Gunderson, W. C.

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San Francisco Chemical Company: King, D. L., Sr.
Geophysical Study
Profile across northern Wasatch trench: Cook, K. L.
Stratigraphy
Cambrian: Rigo, R. J.
Structural Geology
Middle Rocky Mountains and northeastern Great Basin, Permian: Sheldon, R. P.

UTAH, NE
Paleontology
Eocene ("late-Utian") prosimian primates: Robinson, P.
Eocene rodents: Dawson, M. R.
Logan quadrangle, Ordovician brachiopods: Ross, R. J., Jr.
Structural Geology
Rocky Mountain, major structures: Eardley, A. J.

UTAH, NC
Geophysical Surveys
Jordan Valley, seismic-refraction profile: Arrow, T.
Northern Areal Geology
Western Phosphate field: Swanson, R. W.
Northern Geochemistry
Potassic igneous rocks: Best, M. G.

UTAH, S
Paleontology
Environment: Hallgarth, W. E. -2
Structure
General Permian study: Hallgarth, W. E. -1

UTAH, SC
Engineering
Glen Canyon Dam: Wiegel, E.
Stratigraphy
Regional continental deposits: Schneider, M. C.

UTAH, SE
(See also PARADOX BASIN)
Geomorphology
Popular explanation: Foushee, E.
Mineral Deposits
Uranium veins, Kane Creek: Davidson, D. M., Jr.

UTAH, SW
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Zion: Hagoon, A.
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Tertiary Quichapa Group: Williams, P. L.
Structural Geology
Sevier orogenic belt: Armstrong, R. L.

UTAH, W
Economic Geology
Cordilleran miogeosyncline: Armstrong, R. L. -2
Ground Water
Perennial recharge: Thomas, H. E.
Paleontology
Actinoceroid cephalopods, Ordovician: Flower, R. H. -1, 2
Sponges, west Utah Silurian: Rigby, J. K. -1
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Cambrian, Silver Island Mountains: Robison, R. A.
Lower Permian: Barosh, P. J.
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UTAH, E
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Precambrian, Uncompahgre Plateau: Hedge, C. E.
Oil Shale
Green River Formation: Donnell, J. R.

WASHINGTON COUNTY
Structural Geology
Hurricane Cliffs: Watson, R. A.

WAYNE COUNTY
Geochemistry
Utah jet, aberrant vitrinite: Traverse, A.

OPEN FILE

The following items recently have been placed on open file by the USGS; copies are available at the Utah Survey.

1. Paleogeographic maps of the Telegraph Creek, Eagle, Claggett, Judith River, Bearpaw, and Fox Hills times of late Cretaceous Epoch in the western interior region, by J. R. Gill and W. A. Cobban. 6 sheets, scale 1:5,000,000.

2. A summary of the USGS recent aeromagnetic activities in Utah, including an index map indicating all airborne surveys of Utah that have been published by the USGS.

3. Principal facts for gravity stations in Heber and Rhodes Valleys, Wasatch County, Utah, by Donald L. Peterson.

Material placed on open file may be reproduced. The cost of such reproduction must be assumed by the individual.

EDITORS OR HANDS

Gladys V. Isakson, UG&MS editor, has accepted the position of Technical Publications Editor with the Intermountain Forest and Range Experiment Station, U.S. Forest Service, at Ogden. Mrs. Isakson, who has held her Survey position since October 1, 1966, will be succeeded by Mrs. Mildred R. Detling. Mrs. Detling has served as editor at Dugway Proving Grounds since September 1968. Both editors were to assume their new positions June 16.

Conventioneers Rock Out

The 1969 Utah State Legislature has designated topaz as the state's official gem.

The Mineralogical Society of Utah and the Wasatch Gem Society of the Rocky Mountain Federation, will host the annual joint convention of the American Federation of Mineralogical Societies (AFMS), and the Rocky Mountain Federation of Mineralogical Societies (RMFMS), June 19-22.

The American and Rocky Mountain Federation will hold their convention meetings at Hotel Utah. Featured with the meetings are field trips to various collecting sites and educational booths displaying fossils, antiquities, and Utah minerals. A Gem and Mineral Show will be held in the new Civic Auditorium. Exhibits are both competitive and non-competitive.

The convention will attract rock hounds and dealers from all over the United States.