Bibliography of Tar Sand Deposits in Utah,
updated as of December 1987.

publication R-1
CC sources III

Keith Clem
owner
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American Assoc. of Petroleum Geologists, 1972, American Assoc. of Petroleum Geologists field trip roadlog- Rawlings to Vernal: Rocky Mountain Assoc. of Geologists, Mountain Geologist, v. 9, n. 2-3, p. 95-114

Anonymous, 1910, Interest being taken in San Juan oil fields: Salt Lake Mining Review, 11, Jan. 15, p. 19-20

Anonymous, 1977, Mini-aided Utah experiments! producing oil from underground tar sand deposits: Minicomputer News, October, also in, Minicomputer aids Utah experiments aimed at tapping oil in underground tar sand deposits: Hewlett-Packard News Release

Anonymous, 1980, Tar-sands project advances in Utah: Chemical Engineering, v. 87, n. 21


- page 2 -
Anonymous, 1983, Development of Utah tar sand eyed: The Oil and Gas Journal, v. 81, p. 64-66


Bakhshande.h, F., 1976, A study of the aromatic fraction of oil shales and other carbonaceous deposits from the Green River Formation in Utah: Colorado School of Mines, M.S. thesis


Ball, J.S., 1974, Oil shale and tar sands as substitute fuels: National Tech. Information Service, Conference-740390-2


Barbour, R.V., S.M. Dorrence, T.L. Vollmer, and J.D. Harris, 1976, Pyrolysis of Utah tar sands, products and kinetics: American Chemical Society, Division of Fuel Chemistry, Reprint 21(6), p. 278-283

Bass, CM., 1975, Tar sands: University of Oklahoma, Energy-fuels-field course and workshop; exploring the Colorado Plateau and the Rocky Mountain area of Colorado and Utah, p. 98-112


Bezama, R.J., 1983, An energy-efficient method for thermal processing of Utah tar sands: University of Utah, Dept. of Chemical Engineering, Ph.D. dissertation


Blakey, R.C., 1975, Structural and stratigraphic control of hydrocarbon deposits in the Moenkopi Formation of southeastern Utah: Geological Society of America, Abstracts with programs, v. 7, n. 7


Blakey, R.C, 1979, Oil-impregnated carbonate rocks of the Timpoweap Member, Moenkopi Formation, Hurricane Cliffs area, Utah and Arizona: Utah Geology, v. 6, n. 1, p. 45-53

— page 4 —
Blakey, R.C., and T.R. Fritz, 1975, Clastic marine shoreline deposits in the Black Dragon Member of the Moenkopi Formation [abstract]: American Assoc, of Petroleum Geologists, Annual meeting


Bridges, J., G. Stresty, A. Taflove, and R. Snow, 1979, Radiofrequency heating to recover oil from Utah tar sands: U.N. Institute for Training and Research, The future of heavy crude oils and tar sands, p. 396-409


page 5 -
Bunger, J.W., 1979, Processing Utah tar sand bitumen: University of Utah, Department of Fuels Engineering, Ph.D. dissertation


Bunger, J.W., D.E. Cogswell, and K.W. Zilm, 1979, Characteristics of tar sand bitumen asphaltenes and the effect of asphaltenes on conversion of bitumen by hydropyrolysis: American Chemical Society, Petroleum Chemistry Division, Reprints v. 24, n. 4, p. 1017-1027

Bunger, J.W., S. Mori, and A.G. Obiad, 1976, Processing of tar sand bitumen; part I, thermal cracking of Utah and Athabasca tar sand bitumens: American Chemical Society, Division of Fuel Chemistry, Reprint 21, n. 6, p. 147


Campbell, J. A., and Ritzma, H. R., 1979, Geology and petroleum resources of the major oil-impregnated sandstone deposits of Utah: Utah Geological and Mineral Survey, Special Studies 50, also in, First International Conference on the future of heavy oil and tar sands, U. N. Institute for Training and Research


Cashion, W.B., Jr., 1964, Other bituminous substances: Utah Geological and Mineral Survey, Bulletin 73, Mineral and water resources of Utah


Christensen, R.J., W.R. Lindberg, and S.M. Dorrence, 19S4, Viscous characteristics of a Utah tar sand bitumen: Fuel, v. 63, n. 9, p. 1312-1317


Covington, R.E., 1964-a, Bituminous sands with viscous crude oils: Brigham Young University, First Intermountain symposium on fossil hydrocarbons, p. 364-374


Covington, R.E., 1964-c, Thermal recovery may bring industry's quiet revolution: The Oil and Gas Journal, v. 62, n. 47, p. 11


Covington, R.E., 1976, Oil-impregnated rocks of Utah; distribution, geology and reserves: BYU, Geology Studies v. 22, pt. 3, p. 143-150

Covington, R.E., and K.J. Young, 1985, Brief history and recent developments in tar sand deposits of Uinta Basin: UGA, Publication 12, p. 227-242


Cupps, C.Q., C.S. Land, and L.C. Marchant, 1976-a, Field experiment of insitu oil recovery from a Utah tar sand by reverse combustion: American Institute of Chemical Engineers Symposium, Series 155, v. 72, p. 61-68


Cupps, C.O., L.A. Marchant, and J.J. Stosur, 1979, Tapping the vast tar sand reserves of the U.S.: World Oil, v. 189, n. 4, p. 73-78

Current, A.M., 1953, A review of the geology and activities in the Uinta Basin: Colorado School of Mines, Quarterly v. 48, n. 3

Curtis, G., 1972, Petroleum-impregnated rocks and shallow oil fields: Rocky Mountain Assoc, of Geologists, Geologic atlas of the Rocky Mountain region, p. 293-296


Demaison, G.J., 1977, Tar sands and supergiant oil fields: Canadian Institute Mining and Metallurgy, Special V. N. 17, The oil sands of Canada-Venezuela, p. 9-16

Dorius, J.C., 1955, The pyrolysis of bitumen-impregnated sandstone from the P.R. Spring (Utah) deposit in a fluidized bed: University of Utah, Dept. of Fuels Engineering, Ph.D. Dissertation


Ford, Bacon, and Davis, Inc., 1951, Synthetic: liquid fuel potential of Utah: Bumines Library, Pittsburgh, Pa., NP-21812


Golder Associates, 1979, Phase 1 site selection report to the U.S. Bureau of Mines on sites specific investigations of environmental problems associated with surface mining of heavy oils and tar sands: Bumines Library, Pittsburgh, Pa., Report JD295027


Hanks, K.C., 1979, Chemistry of oil production from tar sands: University of Utah, Dept. of Chemical Engineering, M.S. thesis


Jayakar, K.M., K.C. Hanks, and J.D. Seader, 1979, Production of synthetic crude oil from Utah tar sands by an energy-efficient thermal process: 4th Rocky Mountain Fuel Symposium


Kelley, V.C., 1975, Tectonics of the region of the Faradax Basin: IAF'G, 9th Annual -field conference


Land, C.S., 1974, Reverse combustion in tar sands: F'res. Gorden Research Conference on Subsurface fluids, Meriden, NH


Laramie Energy Research Center Staff, 1974-a, Draft environmental assessment for proposed reverse combustion oil recovery experiments in northwest Asphalt Ridge tar sand deposit near Vernal, Uintah County, Utah: U.S. Bureau of Mines


Laramie Energy Research Center Staff, 1977, Environmental impact assessment, tar sands in situ processing research program for Laramie Energy Research Center, Vernal, Uinta County, Utah: EIA/OGST/78-

Laramie Energy Research Center, 1981, A bibliography of publications dealing with tar sands: DOE, DOE/LETC/RI-81-2

Laramie Energy Technology Center, 1983, Unpublished lithologic descriptions of oil shale core holes in the P.R. Spring area, Uintah County, Utah: U.S. Department of Energy.

Lawson, A.C., 1912, Section of the Shinarump [abstract!!: GSA, Bulletin v. 23, p. 74


Marchant, L.C., 1976, Oil-impregnated rocks of Utah: U.S. ERDA field experiment to recover oil from tar sand: Brigham Young University, Geology Studies, v. 22, pt. 3, p. 151-156


- page 18 -


McQuivey, R.S., and T.N. Keefer, 1979, Water availability for development of major tar sands areas in Utah: Report SCR 337-79-010, LETC-0013-1


Merrill, R.C., 1972, Geology of the Mill Fork \`re\", Utah: Brigham Young University, Brigham Young University, Geology Studies v. 19, pt. 1, p. 65-88

Miller, J.D., and M. Misra, 1979, The effect of feed source in the hot water processing of Utah tar sand: Society of Mining Engineers, Preprint 79-68


Mowl1, R., and J.K. Hambling, 1979, Priorities for non-conventional hydrocarbon liquids production: U.N. Institute for Training and Research, First International Conference on the future of heavy crude and tar sands


Oblad, A.G., J.D. Seader, J.D. Miller, and J.S. Bunger, 1976, Recovery of bitumen from oil-impregnated sandstone deposits of Utah: American Institute of Chemical Engineers, Oil shale and tar sand symposium, series v. 72, n. 155, p. 69


- page
Oil and Gas Journal, 1976, Utah tar-sand test yields small amount of oil: Oil and Gas Journal, v. 74, n. 2, p. 56

Orgill, J.R., 1971, The Permian-Triassic unconformity and its relationship to the Moenkopi, Kaibab, and White Rim Formations in and near the San Rafael Swell, Utah: Brigham Young University, Geology Studies v. IS, pt. 3

Owen, T.E., F.D. Guffey, and F.A. Barbour, 1975, A comparative study of the isolation of organic material from water collected during the in situ retorting of tar sands: 20th Rocky Mountain conference on analytical chemistry and spectroscopy

Peterson, P. R., 1975, Lithologic logs and correlation of coreholes, P.R. Spring and Hill Creek oil-impregnated sandstone deposits, Uintah County, Utah: Utah Geological and Mineral Survey, Report of Investigation 100.

Peterson, P.R., and H.R. Ritzma, 1972, Oil-impregnated sandstone, Thistle area, Utah: Utah Geological Assoc, publication 2, p. 93-95


Peterson, P.R., 1985, The Whiterocks tar sand deposit: Utah Geological Assoc, Publication 12, p. 243-252

Peterson, R.B., 1974, Oil sands resources and recovery technology: Ninth World Energy Conference, Detroit, MI, v. 4, paper 3, p. 313-325


Pinnell, M.L., 1972, Geology of the Thistle quadrangle, Utah: Brigham Young University, Geology Studies, v. 19, pt. 1, p. 89-130


Research and Education Technology Staff, 1983, Tar sands: Modern Energy Technology, vol II, part V, chapter 60, p. 1613-1616


Ritzma, H.R., 1974-a, Asphalt Ridge, structure, stratigraphy, and oil-impregnated sands: Utah Geological Assoc., Publication 4, p. 60


Ritzma, H.R., 1976, Utah's tar sand resource; geology, politics, and economics: American Institute of Chemical Engineering Symposium series 15, v. 72, p. 47-54

Ritzma, H.R., 1977, United States and Utah oil-impregnated rock (tar sand) resources [abstract]: American Assoc. of Petroleum Geologists Bulletin v. 61, p. 822-323


Ritzma, H.R., 1984, Utah: Interstate Oil Compact Commission, Major tar sand and heavy oil deposits of the United States, p. 175-230

Ritzma, H.R., 1985, Tar sand deposits of the Uinta Basin, Northeast Utah: Colorado School of Mines, Western synfuels symposium proceedings, p. 125-130


Sanborn, A.F., and J-C. Goodwin, 1965, Green River formation at Raven Ridge, Uintah County, Utah: Rocky Mountain Assoc, of Geologists, Mountain Geologist v. 2, no. 3, p. 109-114

Schick, R.B., 1966, Drillers probing Utah's French Seep area": The Oil and Gas; Journal, v. 64, n. 6, p. 134-136


Seegmiller, B.L., and J.E. Wilson, 1968, Mining of fossil hydrocarbons: Chemical Engineers Prog., Symposium Series v. 64, n. 85, p. 51-56

Sepulveda-Jimenez, J.E., 1977, Hot water separation of bitumen from Utah tar sands: University of Utah, Dept. of Metallurgy and Fuels Engineering, M.S. thesis
Sepulveda, J.E., J.D. Miller, and A.G. Oblad, 1976, Hot water extraction of bitumen from Utah tar sands: American Chemical Society, Fuels Division, Symposium on oil shale, tar sands and related materials--Production and utilisation of synfuels, Division of fuel chemistry, v. 21, n. 6, p. 110

Sepulveda, J.E., and J.D. Miller, 1978, Separation of bitumen from Utah tar sands by a hot water digestion-flotation technique: Mining Engineering, v. 30, n. 9, p. 1311, al.sg_in, Society of Mining Engineers, American Institute of Mining Engineers Transaction, 1978

Shaw, D.R., F.E. Poole, and A.V. Heyl, 1978, Geologic framework of the region traversed by field excursion C-3 in eastern Utah-western and central Colorado and by field excursion C-4 in eastern Utah-southwestern and central Colorado: Colorado School of Mines, Professional Contributions No. 9, Guidebook on fossil fuels and metals, eastern Utah and western-southwestern central Colorado, p. 2-46


Smart, L.M., 1984, Thermal processing of Utah tar sands: University of Utah, Dept. of Chemical Engineering, M.S. thesis

Smith, J.W., and M.T. ftttwood, 1976, Oil shale and tar sands: AICHE, Oil shale and tar sands symposium series v. 72. n. 156

Smith, R.J., 1980, Asphalt Ridge tar sands: flotation behavior and process design: University of Utah, Dept. of Metallurgy and Metalurgical Engineering, M.S. thesis

Smith, R.J., and J.D. Miller, 1931, Flotation behavior of digested Asphalt Ridge tar sands: Mining Engineering, v. 33, p. 1719-1724; discussion of article v. 34, p. 1598

South, D.W., and others, 1983, Tar Sands Triangle special tar sands area development analysis: draft socioeconomic technical report: U.S. Dept. of Interior


Stauffer, H.C., [editor], 1981, Oil Shale, tar sands, and related materials: American Chemical Society, Symposium Series No. 163


Stowe, C.H., 1979, Oil-impregnated rock deposits: University of Utah, Utah Engineering Experiment Station, Utah's oil and gas industry: Past, present, and future, p. 829-834


Thurber, J.L., and M.E. Welbourn, 1977, How Shell attempted to unlock Utah tar sands: Petroleum Engineer, v. 49, n. 12, p. 31-42


U.S. Bureau of Land Management, Sunnyside combined hydrocarbon lease conversion, draft environmental impact statement: U.S. Department of Interior


U.S. Bureau of Land Management, 1984-a, Utah combined hydrocarbon leasing regional, final environmental impact statement: U.S. Department of Interior

U.S. Bureau of Land Management, 1984-b, Circle Cliffs combined hydrocarbon lease conversion, draft environmental impact statement: U.S. Dept. of Interior


Utah Energy Office, 1982, An assessment of oil shale and tar sands development in the state of Utah: phase II; policy analysis: Utah Dept. of Natural Resources


Venkatesan, V.N., 1980, Fluid bed thermal recovery of synthetic crude from bituminous sands of Utah: University of Utah, Dept. of Mining and Fuels Engineering, Ph.D. dissertation

Venkatesan, V.N., F.V. Hanson, and A.G. Oblad, 1979, The thermal recovery of a synthetic crude from the bituminous sands of the Sunnyside (Utah) deposit: U. N. Institute for Training and Research, First International Conference on the future of Heavy oil and tar sands


Walton, P.T., 1944, Geology of the Cretaceous of the Uinta Basin, Utah: Geological Society of America, Bulletin v. 55, p. 91-1353

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Weeks, J.K., Jr., 1977, Fluidized-bed processing of Utah tar sands: University of Utah, Department of Chemical Engineering, M.S. Thesis


Wengerd, S.A., 1955, Geology of the Mexican Hat oil field, San Juan County, Utah: Four Corners Geol. Society, Geology of parts of Paradox, Black Mesa, and San Juan Basins, p. 150-163


Young, G.E., 1976, Geology of the Billies Mountain Quadrangle, Utah County, Utah: Brigham Young University, Geology Studies v 23, pt. 1, p. 205-280
ARGYLE CANYON

Abraham, H., 1960
Covington, R.E., 1963
Covington, R.E. 1964
Eldridge,'G.H., 1901
Fouch, T.D., W.B. Cashion, R.T. Ryder, and J.A. Campbell, 1976

ASPHALT RIDGE

Abraham, H., 1960
Ball, M^W., 1951
Barb, C.F., 1942
Barb, C.F., and J.O. Ball, 1944
Barbour, R.V./, S.M. Dorrence, T.L. Vollmer, and J.D. Harris. 1976
Bunger, J.W., 1974
Bunger, J.W., S. Mori, and A.G. Oblad, 1976
Cashion, W.B., 1964
Covington, R.E., 1957
Covington, R.E., 1963
Covington, R.E., 1964
Covington, R.E., 1964
Covington, R.E., 1964
Covington, R.E., 1965
Covington, R.E., and R.L. McDonald, 1965
Eldridge,'G.H., 1901
Jayakar, K.M., K.C. Hanks, and J.D. Seader, 1979
Kayser, R.B., 1966
Kinney, D.M., 1955
Lowe, R.M., 1976
Oblad, A.G., J.D. Seader, J.D. Miller, and J.S. Bunger, 1976
Pruitt, R.G. Jr., 1961
Ritzma, H.R., 1974
Shea, G.B., and R.V. Higgins, 1952
Speiker, E.M., 1930
Walton, P.T., 1944
Wenger, W.J., R.L. Hubbard, and M.L. Whisman, 1952
ASPHALT RIDGE NW

Anonymous, 1977
Covington, R.E., 1957
Cupps, C.Q., C.S. Land, and L.C. Marchant, 1976
Hutchinson, H.L., A. Spivak, and L.A. Johnson, 1979
Marchant, 1978
Marchant, 1978
Kayser, R.B., 1966
Land, C.S., C.Q. Cupps, L.C. Marchant, and F.M. Carlson, 1976
Land, C.S., C.Q. Cupps, L.C. Marchant, and F.M. Carlson, 1976
Laramie Energy Research Center Sta-f-f, 1974
Marchant, L.C, 1976

Covington, R.E., 1963
Covington, R.E., 1964
Covington, R.E., 1965

CIRCLE CLIFFS

Davidson, E.S., 1967
Gregory, H.E., and R.C Moors, 1931
Heylmun, E., 1964
Steed, R.H., 1954
DANIELS CANYON

Ritzma, H.R., 1975

GENERAL

Abraham, H., 1960
Ball Associates Ltd. [compilers], 1965
Hunger, J.W., 1977
Bunger, J.W., 1977
Bunger, J.W., 1979
Campbell, J.A., 1975
Cashion, W.B., 1964
Cupp, C.Q., 1972
Cupp, C.Q., and L.C. Marchant, 1972
Dorrence, S.M., 1976
Kuuskraa, V.A., S. Chalton, and T.M. Doscher, 1975
Marchant, L.C., 1974
Marchant, L.C., 1975
Marchant, L.C., C.S. Land, and C.Q. Cupps, 1975
Marchant, L.C., C.S. Land, and C.Q. Cupps, 1976
Marchant, L.C., C.Q. Cupps, and J.J. Stosur, 1979
Misra, M., and J.D. Miller, 1979
Ritzma, H.R., 1967
Ritzma, H.R., 1967
Ritzma, H.R., 1969
Ritzma, H.R., 1972
Ritzma, H.R., 1973
Ritzma, H.R., 1973
Ritzma, H.R., 1976
Ritzma, H.R., 1977
Ritzma, H.R., 1979
Ritzma, H.R., and J.A. Campbell, 1979
Sepulveda, 1977
Sepulveda, J.R., J.D. Miller, and A.G. Oblad, 1976
Sepulveda, J.R., and J.D. Miller, 1978
Weeks, J.K., Jr., 1977
Wood, R.E., and H.R. Ritzma, 1972

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Blakey, R.C., 1977
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Peterson, P.R., and H.R. Ritzma, 1974

HURRICANE CLIFFS
Bassler, H., and J.B. Reeside, Jr., 1921
Blakey, R.C., 1977
Blakey, R.C., 1978
Blakey, R.C., 1979

LAKE FORK
Covington, R.E., 1963
Covington, R.E., 1964
Covington, R.E., 1965

LITTLE WATER HILLS
Covington, R.E., 1963
Covington, R.E., 1964
Covington, R.E., 1964
Covington, R.E., 1965
Kinney, D.M., 1955
Pruitt, R.G. Jr. 1961

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MEXICAN HAT
Gregory, H.E., 1909
Miser, H.D., 1924
Wengerd, S.A., 1955

MULEY TWIST
Steed, R.H., 1954

NORTH CREEK
Blakey, R.C., 1979

PARIETTE
Covington, R.E., 1963
Covington, R.E., 1964
Covington, R.E., 1964
Covington, R.E., 1965
Erickson, R.L., A.T. Meyers, and C.A. Horr, 1c
P.R. SPRING

Abraham, H. 1960
Ball, M.W., 1951
Byrd, W. D. II, 1967
Byrd, W. D. II, 1970
Cashion, W.B., 1964
Cashion, W.B., 1967
Clem, K.C., 1984
Covington, R.E., 1963
Covington, R.E., 1964
Covington, R.E., 1965
Covington, R.E., and R.L. McDonald, 1965
Dahm, J. N., 1981
Eldridge, 6.H., 1901
Fouch, T.D., W.B. Cashion, R.T. Ryder, and J.A. Cat
Gwynn, J. W., 1970
Gwynn, J. W., 1971
Laramie Energy Technology Center, 1983
Peterson, P. R., 1975
Peterson, P. R., and H.R. Ritzma, 1974
Picard, M.D., 1971
Picard, M.D., and L.R. High, Jr., 1970
Pruitt, R.G., Jr., 1961
Ritzma, H. R., 1974
Whittier, W.H., and R.C. Becker, 1961
Wiley, D. R., 1967
RAVEN RIDGE

Cashion, W.B., 1967
Covington, R.E., 1963
Covington, R.E., 1964
Covington, R.E., 1965
Eldridge, G.H. 1901
Koesoemadinata, R.P., 1970
Hunt, J.M., F. Steward, and P.A. Dickey, 1
Pruitt, R.G., Jr., 1961
Sanborn, A.F., and J.C. Goodwin, 1965

ROZEL

Abraham, H., 1960
Boutwell, J.M., 1904
Eardley, A.J., 1963
Eardley, A.J., and M. Haas, 1936
Heylmun, E.B., 1963
Slentz, L.W., and A.J. Eardley, 1956

SALT WASH

Baker, A.A., 1946
Heylmun, E.B., 1964
McKnight, E.T., 1940
SAN RAFAEL SWELL
(includes Black, Dragon, Chute Canyon, Cottonwood Draw, Family Butte, Flat Top, Justensen Flat, Red Canyon, and Temple Mountain deposits)

Baker, A.A., 1946
Bell, K.G., 1960
Blakey, R.C., 1975
Blakey, R.C. 1977
Blakey, R.C. 1978
Blakey, R.C. and T.R. Fritz, 1975
Breger, I.A. and M. Deul, 1959
Covington, R ., 1964
Covington, R and R.L. McDonald, 1965
Erickson, R L., A . Myers, and C.A. Horr 1954
Gilluly, J., 1928
Hawley, C.C., D.B Wyant, and D.B. Brooks, 1965
Hess, F.L., 1911
Hess, F.L., 1922
Heylmun, E.B 1964
Kelley, D.R. and P.F. Kerr, 1953
Kerr, P.F., and D.R. Kelley, 1956
Mount, P. 1964
Orgill, J.R., 1971
Stakes, W.L., and R.E. Cohenour, 1956

SPLIT MOUNTAIN

Pruitt, R.G., 1961

SPRING BRANCH

Kinney, D.M., 1955
SUNNYSIDE

Abraham, H., 1960
Ball, M.W., 1951
Barb, C.F., 1942
Barb, C.F., and J.Q. Ball, 1944
Cashion, W.B., 1964
Clark, F.R., 1928
Covington, R.E., 1963
Covington, R.E., 1964
Covington, R.E., 1964
Covington, R.E., 1965
Covington, R.E., and R.L. McDonald, 1965
Cross, A.T., and E.B. Max-field, 1975
Fouch, T.D., W.B. Cashion, R.T. Ryder, and J.A. Campbell, 1976
Holmes, C.N., B.M. Page, and P. Averitt, 1956
Jacob, A.F., 1969
Murany, E.E., 1964
Oblad, A.G., J.D. Seader, J.D. Miller, and J.S. Bunger, 1976
Shea, G.B., and R.V. Higgens, 1952
Thurber, J.L. and M.E. Weibourn, 1977
Venkatesan, V.N., F.V. Haqnson, and A.G. Oblad, 1979
Wenger, W.J., R.L. Hubbard, and M.L. Whisman, 1952

SWEETWATER DOME

Baker, A.A., 1946

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Covington, R.E., 1963
Covington, R.E., 1964
Garvin, R.E., 1969
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Baker, A.A., 1946
Berry, C.J., 1977
Bowman, J.L., 1969
Covington, R.E., 1964
Covington, R.E., and R.L. McDonald, 1965
Heylmun, E.B., 1964
Schick, R.B., 1966

TEASDALE

Smith, J.F., and others, 1963

TEN MILE WASH

Baker, A.A., 1946
Covington, R.E., 1965
Heylmun, E.B., 1964
Lupton, C.T., 1912
McKnight, E.T., 1940

THISTLE

Merrill, R.C., 1972
Peterson, P.R., and H.R. Ritzma, 1972
Pinnell, M.L., 1972
Young, G.E., 1976

TIMPOWEAP CANYON

Bassler, H., and J.B. Reeside, 1921
Blakey, R.C., 1978
Blakey, R.C., 1979
Heylmun, E.B., Jr., 1963

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WHITE CANYON

Benson, W.E., A.F. Trites, Jr., E.P. Beroni, and J.A. Feeaer, 1952
Steward, J.H., 1959
Thaden, R.E., A.F, Trites, Jr., and T.L. Finnell, 1964

WHITEROCKS

Barb, C.F., 1942
Barb, C.F., and J.O. Ball, 1944
Cashion, W.B., 1964
Covington, R.E., 1963
Covington, R.E., 1964
Covington, R.E., 1964
Covington, R.E., 1964
Covington, R.E., 1965
Kinney, D.M., 1955
Pruitt, R.G., Jr., 1961
Steward, F.G., and J.H. Poole, 1964

WILLOW CREEK

IAPG, 1957