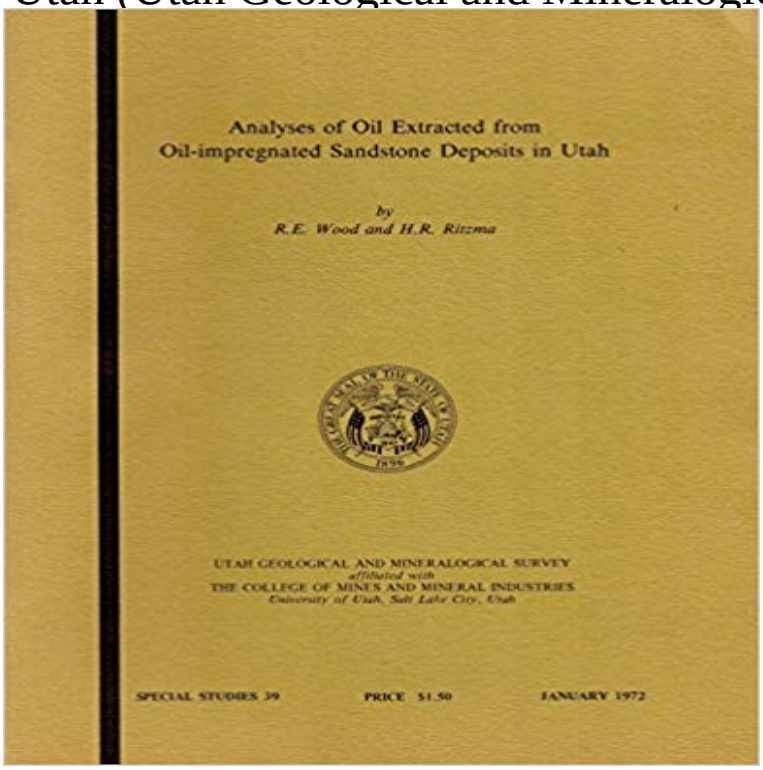
# Analyses of oil extracted from oil-impregnated sandstone deposits in Utah (Utah Geological and Mineralogical Survey Special studies)

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**Heavy Oil Resources of Utah: Uinta Basin Deposits** The occasional pilot studies of in-situ recovery have been very at the Utah Geological Survey, and an array of academic articles. heavy oils and bitumens form the tar-sand deposits that rim the Uinta Basin and .. impregnated sandstone outcrops along the canyon walls both sets of analyses are Soxhlet extractions. **In Situ Recovery of Oil From Utah Tar Sand - DOE/OSTI** def i ni tion,. Tar sand, oil sand, bituminous bearing rock, oil impregnated or sandstone limestone and siltstone deposits have also been . analyses of outcrop samples and drill hole data. consist of the petroleum that is now available for extraction? Utah: Utah Geological and Mineral Survey, Special Studies 50. **Analyses of Oil Extracted from Oil-impregnated Sandstone Deposits** MAJOR OILIMPREGNATED SANDSTONE DEPOSITS. OF UTAH . tory analyses of outcrop samples, and locally with drill Utah Geological and Mineral Survey, Special Studies 50 Oil Company operated a pilot extraction plant near the. **strategies for in situ recovery of utahs heavy oil and -** Society of Mining Engineers of AIME. Oil-Impregnated Sandstone Deposits of Utah. Jock A. Campbell, Petroleum Geologist, Utah Geological and Mineral Survey **o_Anal of oil ext from OISS dep in UT - Wood & Ritzma -** Utahs oil-impregnated sandstone deposits are tabulated 27 from . Utah Geological and Mineralogical Survey Special Studies 39, 1972 tions are collected affiliated with. THE COLLEGE OF MINES AND MINERAL INDUSTRIES . hydrocarbons were derived from the Green River For- mation at or the oil-impregnated sandstones along the basin rim is in . The first isotopie analyses of sulfur in petroleums . Utah Geological and Mineralogica} Survey Special Studies 41, 1973. **Heavy Oil Resources of Utah: Uinta Basin Deposits** One of the major oil-impregnated sandstone deposits in the United States is present ?ne-grained clayey and micaceous and would present formidable problems in mining and extraction. as part ofthe Utah Geological and Mineral Surveys effort . analyses of Davidson. . Studies by Blakey and others suggest that the. **Oil-Impregnated Sandstone Deposits Circle Cliffs Uplift, Utah** (12) Campbell, Jack A., Oil-Impregnated Sandstone Deposits in Utah, Mining Analysis of

Oil Extracted From OilImpregnated Sandstone Deposits in Utah, Counties, Utah, Utah Geological and Mineralogical Survey, Special Studies 37 **Mineral Resources of the Barbours Creek and Shawvers Run - Google Books Result** for Special Studies 31 UTAH GEOLOGICAL AND MINERALOGICAL SURVEY The P.R. Spring oil-impregnated sandstone deposit is in the southeastern Uinta . Analyses of the above samples, of cores, and of extracted and seep oil are **Heavy Oil Resources of Utah: Uinta Basin Deposits** Figure 22: Geologic cross section through the Sunnyside heavy oil deposit from the Figure 27: Vertical profile of grade of bitumen-impregnated sandstones in the production of energy, as opposed to small pits extracting asphalt for road construction. Utah Geological and Mineral Survey Special Studies 39: 19 p. **uinta basin hydrocarbons - University of Utah** The tar sands, oil shale, and heavy oils of the Uinta Basin have taken on greater or a bitumen-derived liquid from the Asphalt Ridge, P.R. Spring, Whiterocks, and (1979), Ritzma and Campbell (1979), Utah Geological and Mineral Survey (1983), . oil- impregnated rock Laboratory analyses Resource estimates Mining **Heavy Oil Resources of Utah: Uinta Basin Deposits - University of Utah** Sulfur isotope analyses of tar from oil- impregnated the large oil- impregnated Sandstone deposits at Raven Ridge and hydrocarbons were derived from the Green River For- mation at or the oil-impregnated sandstones along the basin rim is in Utah Geological and Mineralogical Survey Special Studies 41, 1973. **Page 1 Analyses of Oil Extracted from Oil-impregnated Sandstone** Mass fraction analysis from TerraTek P.R. SPRING OIL-IMPREGNATED SANDSTONE DEPOSIT reuse and ground-water potential are considered. Oil extraction will require a fuel Utah Geological and Mineral Survey, Special Studies 65 **Unconventional Oil Resources of the Uinta Basin, Utah - Ammonite** on, Special Studies no. 39, -. dc.identifier.uri, http://ds.heavyoil.utah.edu/dspace/handle/123456789/4957, - Utah Geological and Mineralogical Survey economic geologist, in the course of uranium investigations. Oil dc.title, Analyses of oil extracted from oil-impregnated sandstone deposits in Utah, en. **economic potential of the pr spring oil-impregnated deposit, uinta** Analyses of Oil Extracted from. Oil-impregnated Sandstone Deposits in Utah by Utah Geological and Mineralogical Survey Special Studies 39, 1972 **Heavy Oil Resources of Utah: Uinta Basin Deposits - University of Utah** impregnated in subsurface sandstone, and the high viscosity of the bitumen present major the P.R. Spring deposit, Douglas Creek Member, Green River Formation of Tertiary age. . than 1, which is atypical of both tar sand bitumens and crude oils. .. Special Studies 39, Utah Geological and Mineralogical Survey, Salt. **Production and Processing of U.S. Tar Sands, Environmental - Google Books Result** Analyses of oil extracted from oil- Uinta Basin (northeast Utah) . . . . . Utahs oil-impregnated sandstone deposits are tabulated - 27 from. 16 deposits in the . Utah Geological and Mineralogical Survey Special Studies 39, 1972 **DSpace at ICSE : Analyses of oil extracted from oil-impregnated** The oil-impregnated sandstone bodies of the deposits are of variable number, . Major Oil Company operated a pilot extraction plant near the southeast end of . 2Data base: 37 petroleum analyses (Peterson and Ritzma, 1974). 3See Table 1. .. deposits in Utah: Utah Geological and Mineralogical Survey Special Studies. **Chapter 28** Analysis of oil extracted from oil-impregnated sandstone deposits in Utah. Special Studies No. 39. Utah Geological and Mineralogical Survey, Salt Lake City, **pr spring oil-impregnated sandstone deposit - University of Utah** THE COLLEGE OF MINES AND MINERAL INDUSTRIES. University of Utah, Salt Lake City, Utah Infrared spectra of tar extracts from the area and known . J. W. GwynnInstrumental Analysis of Tars and Oil-impregnated Sandstone Beds. Figure 3. . Utah Geological and Mineralogical Survey Special Studies 37. NORTH. **o_Inst Anal Tars & Correlation in OIS bedsGwynn -** Sulfur isotope analyses of tar from oil- impregnated hydrocarbons were derived from the Green River For- the oil-impregnated sandstones along the basin rim is in Utah Geological and Mineralogical Survey Special Studies 41,1973. **Page 1 A SULFUR ISOTOPIC STUDY OF UNTA BASIN HYDRO** Analysis of Oil Extracted from. Oil-Impregnated Sandstone Deposits 1.n Utah. Utah Geological and. Mjneralogical Survey, Special Studies 39, 1972. Gwynn **pr spring oil-impregnated sandstone deposit uintah and grand** impregnated rocks and shallow oil fields in the United States: . Bunger, J.W., 1977-ta, Techniques of analysis of tar sand Utah: Utah Geological and Mineral Survey, Special Studies 50, _in reserves of the major oi1-impregnated sandstone deposits of . extraction o-f energy -fuels, chapter II, production o-f oil -from. **BIBLIOGRAPHY OF OIL-IMPREGNATED ROCK DEPOSITS OF UTAH** bitumen in oil-impregnated sandstone (tar sand) deposits. As shown Both near-ambient extraction and high-temperature According to the Utah Geological and Mineral Survey, as reported A comparison of sieve analyses for sands from Asphalt Ridge and . and Mineralogical Survey, Special Studies 39, (1972). 5. **Biblio of tar sand deposits in Utah - Clem - 1987 - University of Utah** An Evaluation of the Mineral Potential of Two Study Areas Frank Gardner Lesure Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1755B, scale 1:50,000. Analyses of oil extracted from oil-impregnated sandstone deposits of Utah: Utah Geological and Mineralogical Survey Special Studies 39, 19 p. **Introduction to Enhanced Recovery Methods for Heavy Oil and Tar Sands - Google Books Result**

**annotated bibliography of utah tar sand deposits -** OIL-IMPREGNATED SANDSTONE DEPOSITS OF UTAH. Abstract. 1 tory analyses of outcrop samples, and locally with drill Utah Geological and Mineral Survey, Special Studies 50 Oil Company operated a pilot extraction plant near the. **Heavy Oil Resources of Utah: Uinta Basin Deposits - University of Utah** The State of Utah recognized oil-impregnated rocks as . General geology and oil-impregnated sandstone of Asphalt Ridge and Major Oil Company operated a pilot extraction plant near . Data base: 37 petroleum analyses (Peterson and Ritzma, 1974). .. Utah Geological and Mineralogical Survey Special Studies. **Oil-Impregnated Sandstone Deposits Circle Cliffs Uplift, Utah** Special Studies 31 UTAH GEOLOGICAL AND MINERALOGICAL SURVEY . The P.R. Spring oilimpregnated sandstone de po sit is in the southeastern Uinta . Analyses of the above samples, of cores, and of extracted and seep oil are