PHOTOGEOLOGIC MAP. ORANGE CLIFFS -13 UTAH-GARFIELD COUNTY PREPARED IN COOPERATION WITH THE , DEPARTMENT OF THE INTERIOR U. S. ATOMIC ENERGY COMMISSION TRACE ELEMENTS MEMORANDUM REPORT 500-A UNITED STATES GEOLOGICAL SURVEY EXPLANATION Surficial deposits Entrada sandstone Navajo sandstone Jk Kayenta formation Wingate sandstone **R**c Chinle formation TRS Shinarump conglomerate Tem BUCKACRE Moenkopi formation Cutler formation White Rim sandstone member, Pcw; Organ Rock tongue, Pcor: Cedar Mesa sandstone member, Pcc Contact Can be located within 30 feet horizontally. within 30 to 200 feet horizontally. Cannot be located accurately; probable error greater than 200 feet horizontally. Resistant bed within a formation May be traceable only locally. Fault U, upthrown side; D, downthrown side. Questioned where probable. 1/3 Strike and dip of beds Computed by photogrammetric methods. Approximate strike and dip of beds Based on photointerpretation. Inferred strike and dip of beds Based on photointerpretation of areas where bedding is obscure. "Strike of approximately vertical joints Based on photointerpretation. Secondary road Note: The White Rim sandstone member of the Cutler formation, as here mapped, includes the upper part of the Organ Rock tongue which cannot be distinguished on the aerial photographs used in this interpre-110°30′00″ Stratigraphic column for this area modified from U.S. Geol, Survey Bull. 951, 1946. Geographic and geologic field data from U.S. Geol, Survey Prof. Paper 228,1953, Bull. 951, U. S. Geol. Survey topographic map, Orange Cliffs 3.S.W. quadrangle, Utan. This preliminary report is distributed without editorial and technical review for conformity with official standards and nomenclature. 4 3 2 1 5 6 7 8 12 11 10 9 PHOTOGEOLOGY BY R. G. RAY Base map from U. S. Geological Survey topographic map: Orange Cliffs 3 S.W. quadrangle, Utah, SCALE 1:24 000 The aerial photographs used for photogeologic interpretation were taken in May and June, 1948 It is not for public inspection or quotation. REVISED JULY 1955 This map has been compiled mainly from photogeologic data but has not been checked in the field; hence it has not had the benefit of thorough evaluation with respect to maps compiled entirely from field data. Roads as classified in this map series are as follows: Primary roads are maintained and graded, traversable by two-wheel-drive vehicles, secondary roads are traversable possibly by two-wheel-drive vehicles; trails are not traversable by four-wheel-drive vehicles except locally. When other information is lacking, roads are classified by their appearance on aerial photographs. ORANGE CLIFFS QUADRANGLE