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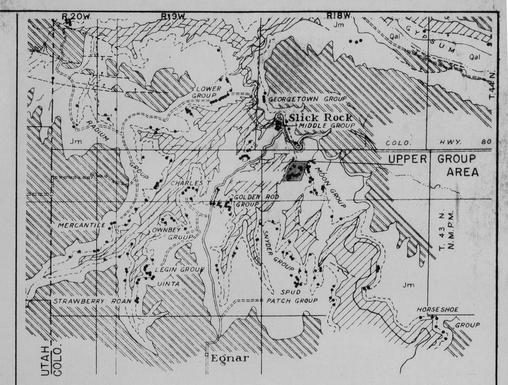

EXPLANATION

- Qal — Alluvium; boundary shown only where it is in contact with the Morrison formation
- Post-Morrison formations
- Jm — Morrison formation; base of principal ore-bearing sandstone shown by dashed line in the areas of detailed mapping
- Pre-Morrison formations
- Fault, showing downthrown side; only faults that influence the position of the Morrison formation are shown
- Vanadium-uranium ("carnotite") deposits or group of deposits

2 0 2 4 6 8 10 MILES

INDEX MAP SHOWING LOCATION OF UPPER GROUP AREA

EXPLANATION

- Approximate base of ore-bearing sandstone
- Approximate top of ore-bearing sandstone
- Favorability boundary in areas underlain by ore-bearing sandstone
- Ground underlain by carnotite-bearing rock, projected to the inferred outer edges of mineralized layers, some of which overlap and are not connected between adjacent drill holes; includes reserve blocks where shown.
- Area where carnotite-bearing rock lies within 20 feet of the surface and where drilling by jackhammer or wagon drill is recommended.
- Mine workings, open cut with dump (approximate outline)
- Mine workings, underground (approximate outline)
- Claim corner or monument found in the field and located by plane-table survey methods. Claim lines connecting these corners are shown by solid lines. Dashed claim lines are plotted from information of doubtful reliability and are subject to correction.
- Diamond-drill holes, U. S. Geological Survey. Classification of holes based on chemical assay and radiometric logs. Numbers on caps of standpipes left in holes all have prefix UG. (Holes located by plane-table survey methods).
- 114 — Barren (contains no significant content of U_3O_8 and V_2O_5 by chemical assay, and registers no gamma-ray value as great as 0.05% eU_3O_8)
- 161 — Weakly mineralized (contains less than 0.10% U_3O_8 and 1.0% V_2O_5 by chemical assay, or registers gamma-ray values within the range from 0.05% to 0.9% eU_3O_8, or less than 1 foot thick regardless [illegible] gamma-ray values)
- 80 — Ore-bearing (contains 0.1% or more U_3O_8 or 1.0% or more V_2O_5 by chemical assay, or registers gamma-ray values greater than 0.09% eU_3O_8, and 1 foot or more thick)

200 0 600 FEET

Contour interval 20 feet
Datum is mean sea level

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TRACE ELEMENTS INVESTIGATIONS REPORT 145

CARNOTITE RESOURCES OF THE UPPER GROUP AREA, SAN MIGUEL COUNTY, COLORADO
May 1951

Figure 2.--Map of the Upper group area, San Miguel County, Colorado

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