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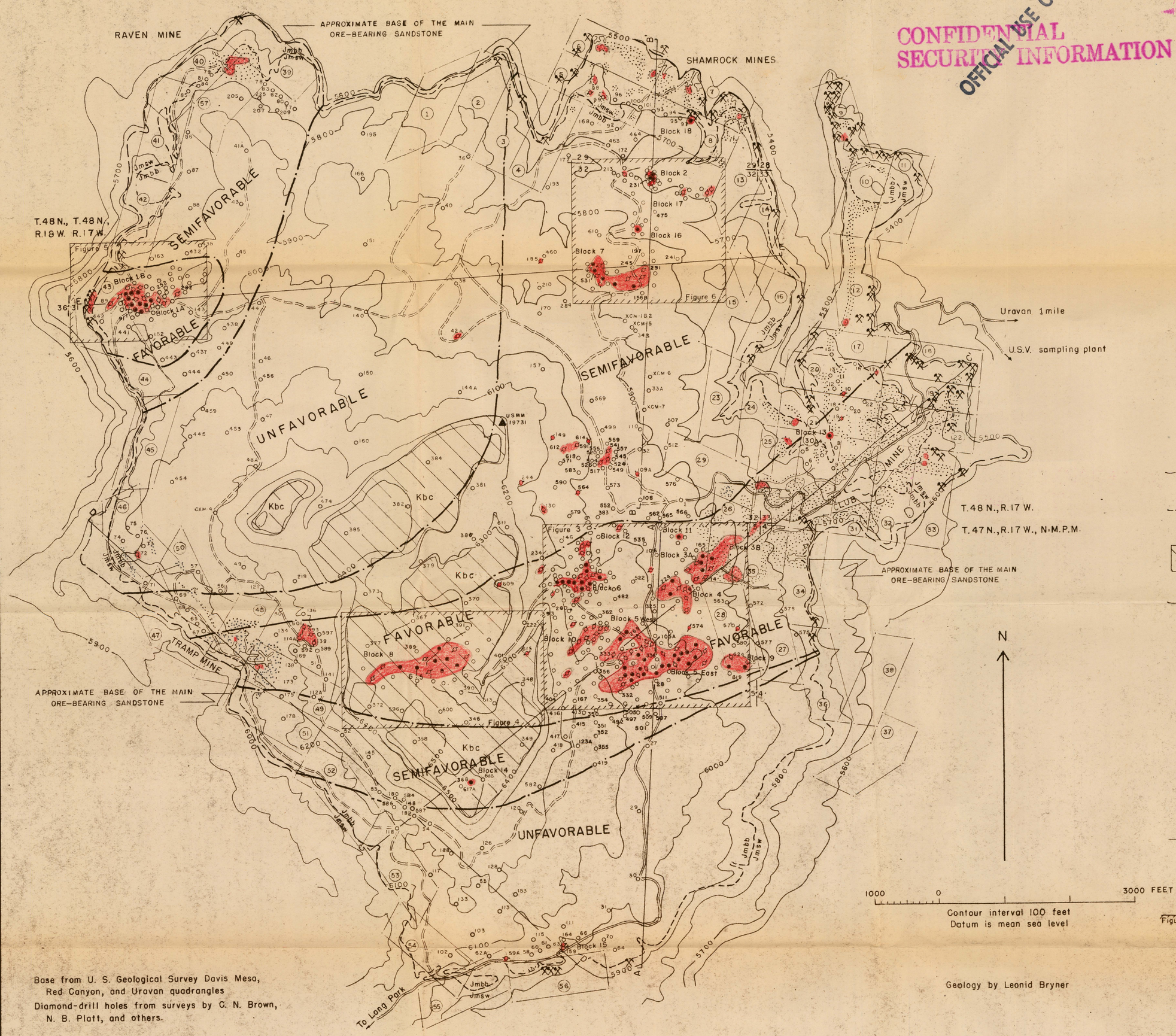



Base from U. S. Geological Survey Davis Mesa, Red Canyon, and Uravan quadrangles
Diamond-drill holes from surveys by C. N. Brown, N. B. Platt, and others.

Geology by Leonid Bryner

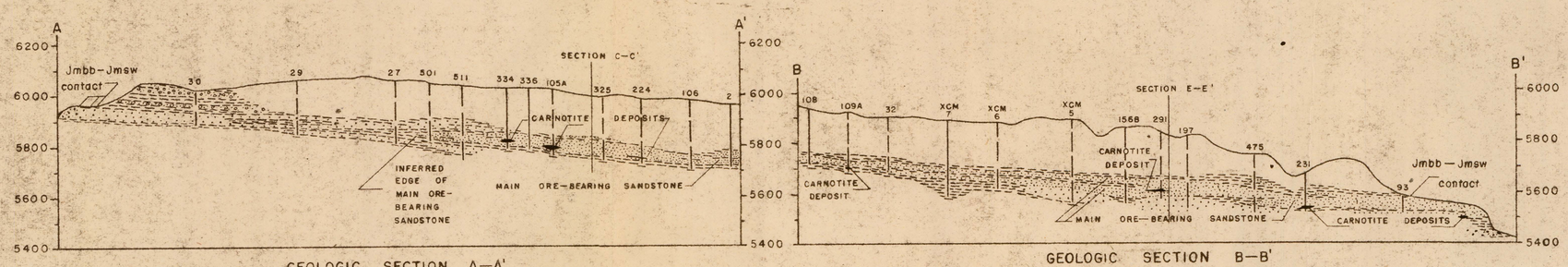
## CLAIM INDEX

(U. S. Vanadium Co. property)

| | |
|---|---|
| 1 LUCKY STRIKE | 30 JOE JUNIOR |
| 2 MARY | 31 R.A.M. |
| 3 VIRGINIA | 32 BETA WONDER |
| 4 HUNTER | 33 BETA |
| 5 IRENE | 34 SURPRISE |
| 6 SHAMROCK | 35 SURPRISE NO. 1 |
| 7 OLD SALT LICK | 36 TELLURIDE |
| 8 LOST HORSE | 37 CHEMIST |
| 9 TRUSCOTT | 38 CHEMIST NO. 2 |
| 10 RANCH VIEW | 39 LOLA |
| 11 RAYMOND | 40 RAVEN-20472 |
| 12 LITTLE JOHNNY | 41 CRACK SHOT |
| 13 SALT LAKE EXT. | 42 BIRD SHOT |
| 14 ANTELOPE | 43 BUCK SHOT |
| 15 RAVEN-20271 | 44 HALF SHOT |
| 16 RAINY DAY | 45 SURE SHOT |
| 17 B & M | 46 BIG SHOT |
| 18 COMMODORE | 47 TRAMP NO. 1 |
| 19 YELLOW JACKET | 48 TRAMP NO. 2 |
| 20 KAISER | 49 TRAMP NO. 3 |
| 21 J. M. | 50 TRAMP NO. 4 |
| 22 RAMBLER | 51 OLD TAYLOR |
| 23 BEAVER | 52 OLD HICKORY |
| 24 ELK | 53 U. S. GRANT |
| 25 MILL NO. 1 | 54 WILLIAM McKINLEY |
| 26 MILL NO. 2 | 55 JOHN ADAMS |
| 27 MILL NO. 3 | 56 JACK RABBIT |
| 28 MILL NO. 4 | 57 PEARL WALKER |
| 29 MILL NO. 5 | |

## EXPLANATION (map)

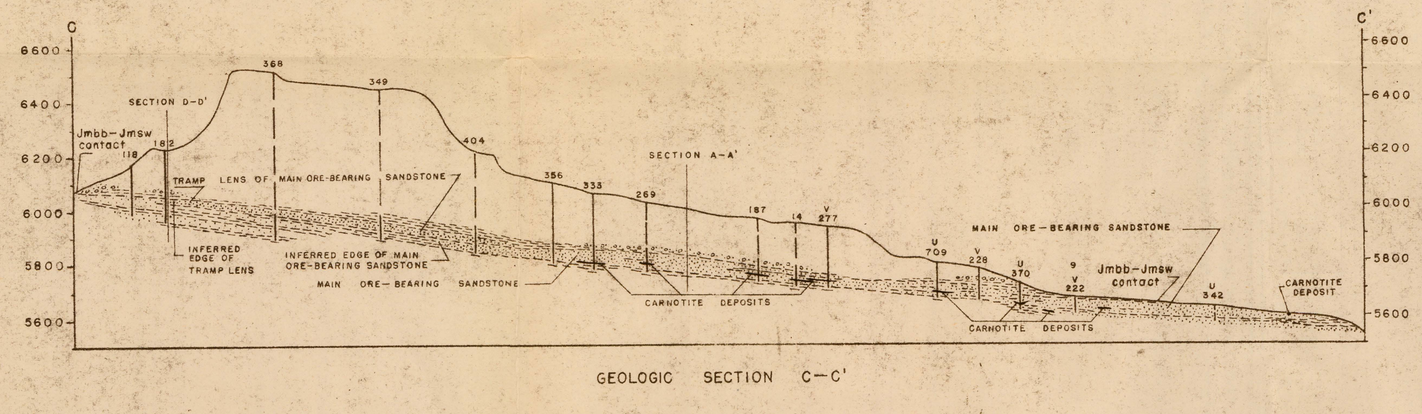
- Approximate base of main ore-bearing sandstone
- Jmbb / Jmsw — Approximate contact between Brushy Basin shale (Jmbb) and Salt Wash sandstone (Jmsw) members of the Jurassic Morrison formation (contact corresponds to top of main ore-bearing sandstone where present
- Kbc — Cretaceous Burro Canyon formation
- Boundary of favorable, semifavorable, and unfavorable ground underlain by ore-bearing sandstone
- Ground underlain by carnotite-bearing rock, projected to inferred outer edges of mineralized layers, some of which overlap and are not connected between adjacent holes; includes reserve blocks where shown
- Mine workings, underground; workings shown on figures 3 and 5 are omitted here
- Carnotite prospect; pits and short adits
- U. S. Mineral Monument
- 32 33 / 5 4 — Land section monument found in field
- (52) — Claim boundary and index number (boundaries located approximately)
- Dirt road, dashed where unimproved
- Figure 3 — Outline of areas shown on figures 3, 4, 5, and 6
- Area extensively drilled by U. S. Vanadium Co., individual drill holes not shown
- Diamond-drill holes, Geological Survey, 1948-52. Classification by grade (based on chemical assay or gamma-ray data) and thickness. Drill holes located by plane-table, transit and stadia, and tape and compass survey methods. (Numbers on drill-hole standpipes in field have prefix CN or XCM)
- 577 — Barren
- 139 — Weakly mineralized (contains less than 0.10% $U_3O_8$ or 1.0% $V_2O_5$ but 0.020% or more $U_3O_8$ or 0.10% or more $V_2O_5$ by chemical assay or registers gamma-ray values within the range from 0.020% to 0.099% $eU_3O_8$, or less than 1 foot thick if higher grade)
- 625 — Ore-bearing (contains 0.10% or more $U_3O_8$ or 1.0% or more $V_2O_5$ by chemical assay or registers gamma-ray values of 0.10% or more $eU_3O_8$ and 1 foot or more thick)



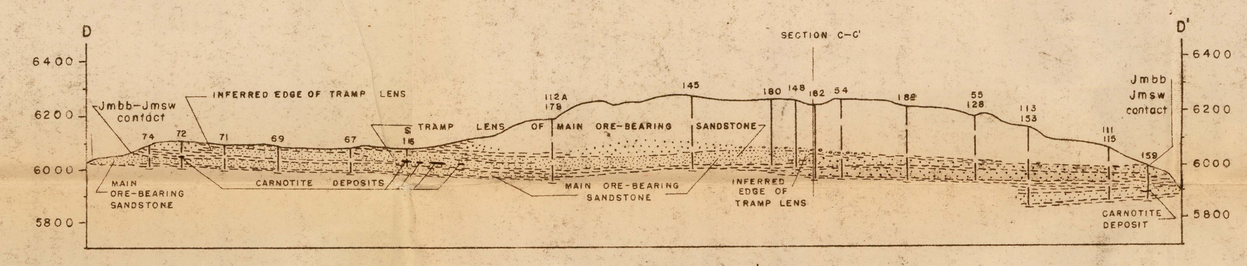

GEOLOGIC SECTION A—A'



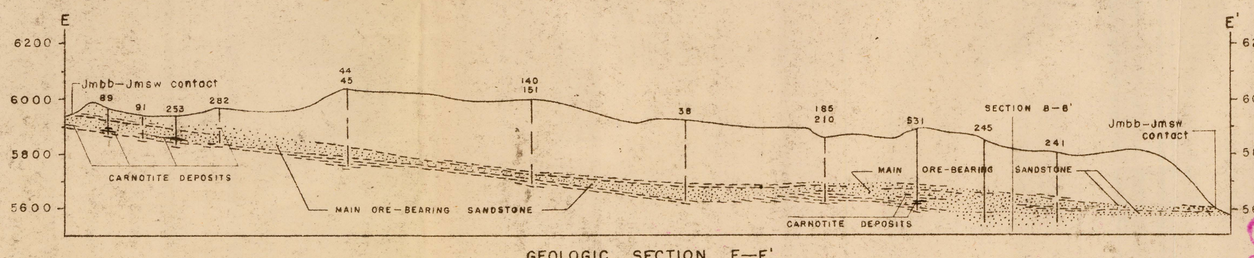

GEOLOGIC SECTION B—B'




GEOLOGIC SECTION C—C'




GEOLOGIC SECTION D—D'




GEOLOGIC SECTION E—E'

## EXPLANATION (geologic sections)

- Mudstone, predominantly brown, and sandstone or siltstone, predominantly gray or red brown
- Conglomeratic sandstone
- Ore-bearing sandstone dense pattern represents main ore-bearing sandstone
- Carnotite-bearing rock; mine workings not shown
- Rock symbols shown only for ore-bearing sandstone and adjacent beds. Not all cored intervals shown
- 333 — Diamond-drill hole, Geological Survey, 1948-52; dashed where projected into section. Prefix XCM indicates experimental hole
- U 709 — Diamond-drill hole, U. S. Vanadium Co., 1938-49; dashed where projected into section. Hole numbers prefixed by S, V, and U
- Two drill hole numbers above a single drill hole indicate that geology shown is a combination of data from both holes. Some of the drill holes used for plotting geologic sections are not shown

1000 0 3000 FEET
Horizontal scale
400 0 1200 FEET
Vertical scale
Datum is mean sea level

U.S. GEOLOGICAL SURVEY RESTON, VA. OCT 07 1986 LIBRARY

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Figure 2.--GEOLOGIC MAP OF CLUB MESA AND GEOLOGIC SECTIONS OF THE MAIN ORE-BEARING SANDSTONE AND ADJACENT BEDS, CLUB MESA, MONTROSE COUNTY, COLORADO

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