Jaken from NBMG-OFR 81-4

1981) See also 81-3 for

geochemical Montello Phosphate Area

N. 968 ** Item 3

The Montello phosphate area covers the southern part of Murdock Mountain east of Montello. The area includes Immigrant Canyon on the north and extends south to the northern boundry of the Loray district. Prospecting for phosphate

Only one prospect, in Immigrant Canyon, was visited within the area. At that location, an old shaft and connecting adit explored narrow calcite veins in shale and limestone. No mineralization was obvious from either the examination or from results of samples taken there.

was done during the early 1970's, but no activity was in evidence at the time

Selected References:

of this examination.

Garside, L. J. (1973) Radioactive Mineral Occurrences in Nevada.

NBMG Bull. 81.

Smith, R. M. (1976) Mineral Resources of Elko County, Nevada.

O U.S. Geol. Survey Rpt. 76-56.

| THERMANES Mineg District: Montello ANS Steet: Mells Outs Sheet: | SPERTY NAME: | Unknown | County: | E1ko |
|--|----------------------|--|----------------|--|
| MINERAL (DOMNGOT/(ES): LINKANDAM VERY OF DEPOSIT: Vern COCCESSIBILITY: MODULTION: Unknown ISTORY: COUNTY O' THE CALCITE VERN CULTURE SHAFT. COUNTY AT TIME OF EXAMINATION: None Shale at shaft collar strikes N 60° W dips 15°-20°NW, fracture zone has some strike, dips 75° SW. Samples 089 O'' O'' O'' O'' O'' O'' O'' O'' O'' O' | OTHER NAMES: | | | . Montello |
| ODECSSIBILITY: SEC. 24 T 39N N 67E COMMINISTED TO THE OFFICE OF THE OF | | | | |
| CCESSIBILITY: WINERSHIP: RODUCTION: Unknown ISTORY: CTIVITYAT TIME OF EXAMINATION: Shale at shaft collar strikes N 60° W dips 15°-20°NW, fracture zone has some strike, dips 75° SW. Samples 089 090 Samples 089 090 LV. Tineley LV. Tineley LV. Tineley LV. Tineley LV. Tineley Since Coordinate (UTM): Morn Marks: CCOORDINATE (UTM): Morn Morn Morn Morn Morn Morn Morn Morn | TYPE OF DEPOSIT: | Vein | | |
| WHERSHP: RODUCTON: Unknown EVELOPMENT: Old adit, vertical shaft. CONTINITY AT TIME OF EXAMINATION: None EDUGOY: White calcite vein cutting black paper shale, dull yellow stain on some shale fragments, some white quartz. Shale at shaft collar strikes N 60° W dips 15°-20°NN, fracture zone has some strike, dips 75° SW. Samples 089 090 | ACCESSIBILITY: | | | |
| INSTORY: Sast 0.71/2.1.1.9 1.0 m 20mb +111 | OWNERSHIP: | | Coordinate (UT | ······································ |
| EVELOPMENT: Old adit, vertical shaft. CTIVITYAI TIMEOFEXAMINATION: None E0LOGY: White calcite vein cutting black paper shale, dull yellow stain on some shale fragments, some white quartz. Shale at shaft collar strikes N 60° W dips 15°-20°NW, fracture zone has some strike, dips 75° SW. Samples 089 090 MARKS: | PRODUCTION: | Unknown | 1 | $\frac{4 5 7 0 3 5 0}{0 7 2 1 9 10}$ |
| CTIVITYATIMEOFEXAMINATION: None EOLOGY: White calcite vein cutting black paper shale, dull yellow stain on some shale fragments, some white quartz. Shale at shaft collar strikes N 60° W dips 15°-20°NW, fracture zone has some strike, dips 75° SW. Samples 089 090 MARKS: | HISTORY: | | | +11 · |
| CTIVITYATIMEOFEXAMINATION: None EOLOGY: White calcite vein cutting black paper shale, dull yellow stain on some shale fragments, some white quartz. Shale at shaft collar strikes N 60° W dips 15°-20°NW, fracture zone has some strike, dips 75° SW. Samples 089 090 MARKS: | NEVEL OPMENT | Old adit, vertical shaft | | |
| White calcite vein cutting black paper shale, dull yellow stain on some shale fragments, some white quartz. Shale at shaft collar strikes N 60° W dips 15°-20°NW, fracture zone has some strike, dips 75° SW. Samples 089 090 MARKS: | ZEVELOPIWENT. | out, vertical shart. | | |
| Shale at shaft collar strikes N 60° W dips 15°-20°NW, fracture zone has some strike, dips 75° SW. Samples 089 090 MARKS: | CTIVITY AT TIME OF I | EXAMINATION: None | | |
| Samples 089 O90 MARKS: FERENCES: | EOLOGY: | White calcite vein cutting black paper shale, du fragments, some white quartz. | ll yellow st | cain on some shale |
| Samples 089 O90 MARKS: FERENCES: | | Shale at shaft coller strikes M 600 H 44-150 co | OSMIT 6 | |
| Samples 089 090 MARKS: FERENCES: | | strike, dips 75° SW. | O'NW, fractu | re zone has some |
| Samples 089 090 MARKS: FERENCES: L.V. Tingley | | | | |
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| MARKS: FERENCES: J.V. Tingley | | Samples 089 | | |
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| J.V. Tingley | | | | |
| | AMINER: | J.V. Tingley | | |

lement

Semi-Quantitative Spectrographic Analysis

Sample Number

| | ······································ | | · | Jampio | Hullibol | | | The State of the S | e to a large der |
|---------------------|--|------------------|------------------|------------------|--|---|--|--|------------------|
| , | 089 | 090 | | | | | | 1 | Cally David |
| Fe % (.05) | .5 | 1.5 | | | | * 1 | * | | at thing. |
| Mg % (.02) | 1 | .7 | | | | | | 111111 | |
| Ca % (.05) | 20 | 75 | | | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| Ti % (.002) | .015 | .07 | | | ************************************** | | | | |
| Mn (10) | 200 | 6(5000) | | · - | | | · | 100 | |
| Ag (.5) | 4 | N | | | | | | 8.1 | |
| As (200) | N. | W | | | | | | | |
| Au (10) | N | N | | | | | | | |
| B ₍₁₀₎ | 10 | 20 | · | | | | | | |
| Ba (20) | 50 | 700 | | | | | *************************************** | | |
| Be (1) | N | N | | | | | | | |
| Bi (10) | ĸ | N | · | | | | | | |
| Cd (20) | N | N | | | | | والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج | | |
| C ₀ (5) | N | 2 | | | | | | | |
| Cr ₍₁₀₎ | 30 | 20 | | | | | | | |
| Cu (5) | 7 | 7 | | | · | *************************************** | | | |
| La (20) | N | 20 | | | | | | | |
| Mo ₍₅₎ | N | x) | | | | | | | |
| Nb (20) | N. | N | | | | | | | |
| Ni (5) | < | 10 | | | | | | | |
| Pb (10) | 30 | 20 | | | | | | | |
| Sb (100) | K) | 2/ | | | | | | | |
| Sc (5) | N | 5 | | | | | ************************************** | | |
| Sn (10) | N | N | | | | | *************************************** | | |
| Sr (100) | 1500 | 2000 | | | | | | | |
| V ₍₁₀₎ | 10 | 15 | | | | | *************************************** | | |
| W ₍₅₀₎ | N | N | | | | | | | |
| Y(10) | 10 | ゟ | | | | | | | |
| ^{Zn} (200) | N | N | 284 | | | · | | | |
| Zr (10) | 15 | 30 | | | | | | | |
| TI (100) | N | V | | | | | | | |
| | | Analysis by Bran | ch Exploration A | esearch, U.S. Ge | ol. Survey Denvi | er Colorado | | | |

Analysis by Branch Exploration Research, U.S. Geol, Survey, Denver, Colorado Fe, Mg, Ti reported in %, all other elements reported in ppm.

Lower limits of determination are in parentheses.

G = greater than value shown, N = not detected at limit of detection, < detected, but below value shown.