

Taken from NBMG OFR 81-4
(1981) See also 81-3 for
geochemical results.

Montello Phosphate Area

N. of 68
Item 3

2910 0003

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

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.

Selected References:

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

NBMG Bull. 81.

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

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

County: Elko
Mining District: Montello
AMS Sheet: Wells
Quad Sheet: Montello Canyon
Sec. 24, T 39N, R 67E
Coordinate (UTM):
North 4 5 7 0 3 5 0 m
East 0 7 2 1 9 1 0 m
Zone 11

ACTIVITY 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
	090

REMARKS:

REFERENCES:

EXAMINER: J.V. Tingley

DATE VISITED: 8/26/80

Semi-Quantitative Spectrographic Analysis

Element

Sample Number

	089	090							
Fe % (.05)	.5	1.5							
Mg % (.02)	1	.7							
Ca % (.05)	20	15							
Ti % (.002)	.015	.07							
Mn (10)	200	6(5000)							
Ag (.5)	L	N							
As (200)	N	N							
Au (10)	N	N							
B (10)	10	20							
Ba (20)	50	700							
Be (1)	N	N							
Bi (10)	N	N							
Cd (20)	N	N							
Co (5)	N	L							
Cr (10)	30	20							
Cu (5)	7	7							
La (20)	N	20							
Mo (5)	N	N							
Nb (20)	N	N							
Ni (5)	L	10							
Pb (10)	30	20							
Sb (100)	N	N							
Sc (5)	N	5							
Sn (10)	N	N							
Sr (100)	1500	2000							
V (10)	10	15							
W (50)	N	N							
Y (10)	10	15							
Zn (200)	N	N							
Zr (10)	15	30							
Tl (100)	N	N							

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.