

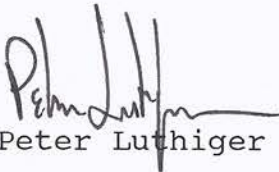
INTERNAL CORRESPONDENCE



(UNIT)

TO A. Gebeau DATE October 14, 1992
FROM P. Luthiger SUBJECT Section 17
Reclamation Report

Attached is the current status report on the reclamation activities for Quivira Mining Company's Section 17 mine. A contractor (Nielson) was hired to perform earthwork to cover the mine waste pads/piles along with any known 'hot spots' surrounding the mine site.


Peter Luthiger

xc: B. Ferdinand
file

SECTION 17 MINE
RECLAMATION REPORT

Reclamation activities at Quivira Mining Company's Section 17 consisted of covering all known contaminated areas on the mine property with clean alluvium. The work was performed by a contractor (Nielson) experienced in similar projects. All contractor personnel received safety training from Quivira employees; consisting of hazard training and radiation safety training.

Reclamation Activities

Activities consisted of placing uncontaminated alluvial cover over all areas that exceeded the unrestricted use radiation levels (57 uR/hr + 20 uR/hr background). Work at Section 17 was initiated on August 27, 1992; with activities completed on August 31, 1992. The total time of reclamation encompassed four (4) days.

Appendix A contains an aerial photograph showing the Section 17 mine site area prior to reclamation activities.

Material Movement

Reclamation activities at Section 17 primarily required the covering contaminated areas with uncontaminated material and recontouring the area.

The total quantity of material that was used to cover the contaminated areas was calculated to be approximately 22,300 cubic yards.

$$\frac{22,300 \times 27}{43540} = 13.8$$

Radiation Surveys

Radiation surveys were performed as reclamation activities progressed. Gamma radiation readings were taken on a 50 foot grid pattern on all disturbed areas at the mine site, with all radiation levels taken down to a cut-off limit of 57 microrem per hour (uR/hr) or less excluding background radiation (20 uR/hr). The 57 uR/hr corresponds to the maximum allowable radiation level which will comply with the annual radiation limit for the general public (0.5 rem per year). All locations resulting in readings above 57 uR/hr exclusive of background were marked for further cleanup and then resurveyed. Appendix B contains the survey results for the areas reclaimed by the contractor. No activity was conducted in the immediate vicinity where the mine buildings and shaft were due to current use of the area.

APPENDIX A

Aerial Photograph - Section 17

QUIVIRA MINING COMPANY

Section 17 Mine




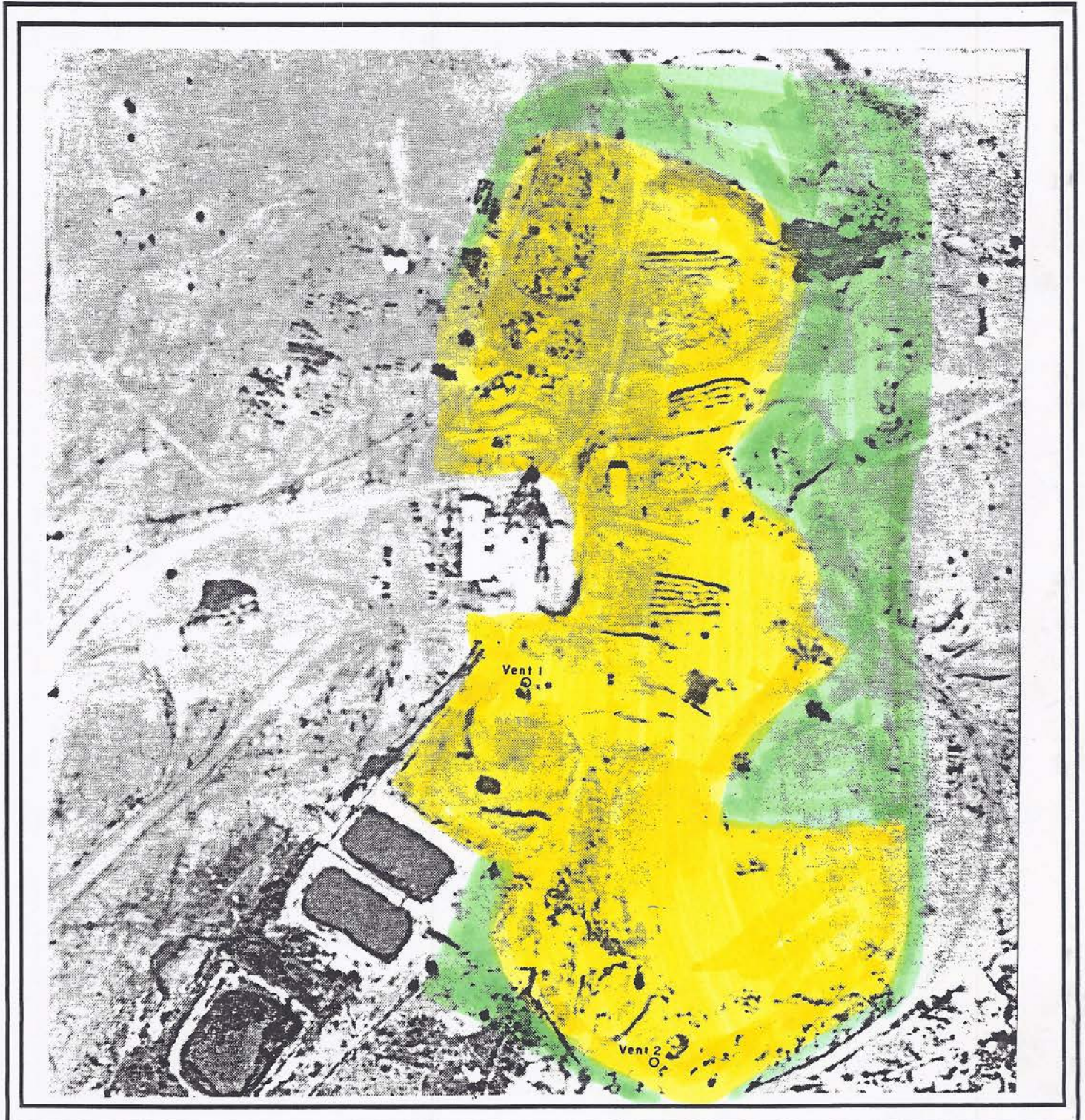
APPENDIX B

Radiation Survey Results

QUIVIRA MINING COMPANY

Section 17 Radiation Survey (Above Background)

-  Less than 5 microrem per hour (uR/hr)
-  6 uR/hr to 30 uR/hr
-  31 uR/hr to 57 uR/hr



Section 17 Shaft Areas

Water Tank Area
0.9 acres

Access Road
0.4 acres

17 Shaft Area
1.7 acres

17 Shaft

4 Tons

17VH1

