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STATE INSPECTOR OF MINES

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[yped July 26, 1978

June .29., 19.78..... (Date of Inspection)

# REPORT OF INSPECTION

I.D. No. 2901660 - Doris Extension Section 21 (M & M Mining Company) Mine

Uran I um (Classification of Mine) McKinley (County in which located) Company representative present at inspection)

Pursuant to the Mining Laws of the State of New Mexico, Section 63-4-8, an inspection, as designated above, has been made. During this inspection the following was noted:

## INTRODUCTION

The primary purpose of this inspection was to check radon-daughter concentrations in each working place of the mine, to measure quantity of air supplied to each man working underground and to calculate a weighted exposure for each of the various classes of mine personnel.

For collecting the alpha particles, the MSA Monitaire air sampler, U. S. Bureau of Mines approval No. 2F-2004 was used. For counting the alpha disintegration, the PS-1 Eberline pulse rate meter in combination with the SPA-1 Eberline millipore filter radon probe was used.

## GENERAL INFORMATION

owner of Property: Ranchers Explo- ration and Development Corporation	Company Official: Robert H. Miles, Lessee and General Manager Mining method: re-development for modified room and pillar extraction			
Lessee: Robert Miles				
Location: approximately 12 miles				
NE of Grants, NM, some 500 feet from Hwy. 53 north.	Principal product: uranium ore			
	Last radiation inspection: April 13, 1978,			
Employment: 8	and the report was posted.			
Work Schedule:	Lost-time injuries to date: none			
Hours per shift 8				
Shifts per day 1	First-aid training to date: 33%			
Hours per week 40				

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ONE COPY OF THIS REPORT SHALL BE POSTED IN A CONSPICUOUS PLACE AT THE MINE

1.D. No. 2901660 - Section , Doris Extension M & M Mining Company



The inspector was accompanied by Mrs. Trace Winchester during the entire period of this inspection.

The mine is opened by an 8'x9' decline adit, at some 900 feet in by the development drifts are carried out. This decline is used for ventilation, for haulage of ore and development muck, for hauling materials and as a travelway for all underground personnel.

This mine is also connected to the Flea Mine which at the present time, is used for exhausting all used air from the Doris workings and it can be also utilized as a second escapeway in extreme cases of emergency.

# VENTILATION AND RADIATION

Fresh air entered the mine through the Doris decline at a rate of 52,500 cubic feet per minute and after ventilating the working faces of the Doris workings, used air was forced to exhaust through the Flea decline by a 75 HP Joy Series 1000, axial flow type electric fan.

Underground fresh air was distributed throughout the drifts and to the No. 1 Flea drift heading by an air propelled fan with the aid of a 16" vent tubing.

The following is a list of radon-daughter concentrations, air volume measurements and time-weighted exposure for each of the classes of mine personnel.

Sample No.	Sample Location	entilation c.f.m.	- Jill State & Long Hand Constant Destination	t Exposure Haulages	Working Level
1	No. 2 drift right of portal	50,000 -	Control same	le, no expo	sure0.04
2	Flea decline exhaust		Control samp		
3	No. 1 heading drill	7,000	0.3 4.0		0.5
4	No. 1 haulage	12,000	0.2	1.0	0.2
5	No. 2 haulage	52,000	0.3	0.5	0.1
6	. 3 haulage to portal	52,000	0.2	0.5	NII

The time-weighted exposure for the various classes of mine personnel and the mine exposure index are as follows:

Maintenance and Management - 0.2 x working levelStopes and Developments- 0.5 x working levelHaulageways- 0.2 x working levelTotal Mine Exposure Index- 0.4 x working level

### ABATEMENT OF NOTICES ISSUED APRIL 13, 1978

Notice No. 1, SIM Rule No. 71-2(2c); (57.5-40M) Abated June 29, 1978

NOTICES ISSUED JUNE 29, 1978

Notice No. 1, Section 63-20-1, NMSA: An overhead clearance sign shall be posted at the mine gate. (57.9-60M) Abated June 29, 1978.

Notice No. 2, Section 63-28-20, NMSA: The underground stretcher shall be provided with splints. (57.15-1M) Abated June 29, 1978.

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Notice No. 3, Section 63-25-20, NMSA: The blasting box shall be kept locked. (57.6-128M) Abated June 29, 1978.

Notice No. 4, Section 63-4-5(c), NMSA: The dusty condition around the slusher area shall be controlled. Abated June 29, 1978.

Notice No. 5, Rules and Regulations Effective in the Uranium Mining Areas, Rule No. 3: The No. 1 haulage area adjacent to the No. 1 heading shall be supported with roofbolts and heavy wire mesh fencing. Abated June 29, 1978.

Notice No. 6, SIM Rule No. 78-1(2a): The underground eating place shall be provided with a receptacle for the disposal of waste food. (57.20-13M) Abated June 29, 1978.

Notice No. 7, SIM Rule No. 76-1(2c): Evidence of cigarette smoking was found at the eating place. (57.5-41M) Abated June 29, 1978.

Notice No. 8, SIM Rule No. 78-1(2a): The bottom of the Flea mine decline escapeway shall be posted against unauthorized entry and designated by signs indicating them as areas in which approved respirators shall be worn. (57.5-45M) Abated June 29, 1978.

The above notices were discussed with Mrs. Trace Winchester and subsequently with Mr. Bob Miles.

### ACKNOWLEDGEMENT

The courtesy and cooperation of Mrs. Trace Winchester and personnel of the Doris Extension, Section 21 Mine, during this inspection are hereby gratefully acknowledged.

Inspected and Reported by: L. A. Quinones Dust and Mine Gas Engineer Deputy Inspector of Mines

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