The state of the s	Energy & Minerals Bureau of Mine Ing 2825-E Broadbent F	Department pection arkway NE	SAFETY FIRST
MANUEL DURANTE STATE MINE INSPECTIVE NOV 2	1 1984 REPORT OF IN	NSPECTION	OFFICE TELEPHONE 841-8305 Home: 865-4492
I.D. No. 2900542-Se Quivera Mining Comp.	ction 35 any (Name)	{ Mine	TY: Nov. 16, 1984 Nov. 5,6,.1984 Date at inspection)
Metal (Classification of Mine)	McKinley (County in which located)	Ray Torivio, I (Company represent	Environmental Tech.

Pursuant to the Mining Laws of the State of New Mexico, Section 69-5-10, an inspection, as designated above, has been made. During this inspeciton 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.

The above is in compliance with the Federal Metal and Nonmetallic Mine Safety Act (Public Law 89-57, 30 U.S.C. 725)

For collecting the alpha particles, the M.S.A. Model "S" Air Sampler, U.S. Bureau of Mines approval No. 2G-2239-2 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

Date of previous inspection: January 11,12,16,17,18, 1984.

The operation is located approximately twenty-seven (27) miles north of Grants, NM, Ambrosia Lake Mining District. The operation is owned and operated by Quivera Mining Company.

Employment:		Company Officials:
Underground	60	A. Cabeau, Manager of Operations
Total	65	H. Whitacre, Manager of Mines
		N. Erickson, Division Supt.
Work Schedule:		R. Bunnell, Mine Supt.
Hours per day	8	F. Gonzales, General Mine Foreman
Shifts per day	1	
Hours per week	32	Type of operation: Underground

Mining method: Modified room and pillar

7803190094 841106 PDR ADOCK 04008905 C PDR State Mine Inspector

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Principal product: Uranium First-aid training to date: 100% Lost-time injuries to date: None Fire Drill practiced: 5-15-84 Mine Rescue trained: 10-84 Self-Rescuer Weighed: 10-29-84 Inspection Party: Quivera Mining Company

Ray Torivio, Environmental Tech.

NM Bureau of Mine Inspection Edwin Dickens, Dust and Mine Gas Inspector

The inspector was accompanied by Mr. Ray Torivio during the entire inspection. Duplicate samples were taken for comparison purposes.

VENTILATION

The mine was ventila. d by 537,000 cubic feet per minute of air delivered and exhausted through the following openings:

Opening	Size I.D.	Air Direction	Air Volume c.f.m.	Make of Fan	HP
V.H. 1	60"	upcast	79,000	Westinghouse	350C
V.H. 2	60"	upcast	71,700	Westinghouse	350C
V.H. 3	60"	upcast	67,700	Westinghouse	350C
V.H. 4	60"	upcast	52,000	2/Joy	125A
V.H. 5	60"	upcast	60,500	Joy	125A
V.H. 6	60"	upcast	47,600	JOY	125A
V.H. 7	60"	downcast	166,500	Hartzell	200A
V.H. 8	60"	upcast	84,400	Westinghouse	350C
V.H. 9	60"	upcast	34,400	Joy	125A
Shaft	168"	downcast	370,600	Natural	
Sec. 36 .	5'x7' rai	se upcast	40,000	Natural	

Main fans were electrically powered axial-flow and centrifical type units. All primary fans were surface mounted units. All boreholes were steellined throughout the length of the opening. Air was distributed to the working places by directing the primary airflow, by use of auxiliary fans, and vent tubing. Underground airflow was controlled by bulkheads, air doors, air seals, brattices, curtains, and air locks.

Listed below are the radon-daughter concentrations, ventilation volume measurements and exposure calculations from the men in each working place underground. All these were only possible with the data obtained during this inspection.

Sample		Ventilation Man-Shift Exposure Working					
NO.	Sample Location	c.f.m.	M&M	Stopes	Haulages	Level	
1	7100 Haulage	7,000	0.37		0.72	0.1	
2	7102 Slusher	2,000	0.37	0.5		0.2	
3	7102 Drill	5,000	0.37	0.5		0.2	
4	7700 Haulage	7,000	0.37		0.72	0.1	
5	7701 Slusher	5,000	0.37	0.5	V . / L	0.5	
6	7701 Drill	5,000	0.37	0.5		0.3	

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Sample No.	Sample Locati	on	Ventilation	Man- M&M	Shift E	Xposure Haulages	Working Level
7	7701 Timber crew	,	5,000	0.37	2.0		0.7
8	5502 Drill		4,000	0.37	0.25		0.5
9	5502 Walk		5,000	0.37	0.25		0.5
10	5502 #1 Slusher		7.000	0.37	0.25		Nil
11	5502 #2 Slusher		7.000	0.37	0.25		0.1
12	5503 Exhaust		10,000	0.37			0.7
13	5503 Drill		1,000	0 37	0.33		0.1
14	5503 #2 Slucher		1 000	0.37	0.33		0.1
15	5503 #1 Sluchor		3,000	0.37	0 34		Nil
16	2-2 Turchroom		5,000	0.37	0.54		Nil
17	2-2 Shop		5,000	0.37	0.5		Nil
19	2000 Haulago		10,000	0.37		0 70	0 1
10	1000 Haulage		15,000	0.37		0.72	0.1
20	4000 Haulage		15,000	0.37		0.72	0.1
20	4300 Haulage		15,000	0.37	0 5	0.75	0.1
22	4301 STUSHEL		3,000	0.37	0.5		0.2
44	4301 DF111		1,000	0.37	0.33		0.0
23	3301 #1 Slusher		5,000	0.37	0.33		NIL
24	3301 #2 Slusher		5,000	0.37	0.33		NIL
25	3301 Drill		3,000	0.37	0.34	0 70	0.1
26	8600 Haulage		10,000	0.37		0.73	Nil
27	8605 Drill		1,000	0.37	0.33		0.1
28	8605 Walk		2,000	0.37	0.33		0.1
2.9	8605 Slusher		2,000	0.37	0.34		0.1
30	2-1 Lunchroom		5,000	0.37	0.5		Nil
31	9000 Haulage		55,000	0.37		0.73	0.1
32	9300 Lunchroom		Convection	0.37	0.25		0.1
33	9100 Haulage		15,000	0.37		0.73	0.1
34	9502 #1 Slusher		2,000	0.37	0.33		0.2
35	9502 Drill		5,000	0.37	0.33		0.2
36	9502 #2 Slusher		5,000	0.37	0.34		0.2
37	9501 CP		5,000	0.37	1.0		0.4
38	0300 Haulage		10,000	0.37		0.73	Nil
39	1500 Haulage		30,000	0.37		0.73	Nil
40	1505 #1 Slusher		3,000	0.37	0.33		0.1
41	1505 Drill		3,000	0.37	0.33		0.1
42	1505 #2 Slusher		3,000	0.37	0.34		0.1
43	0400 Lunchroom		2,000	0.38	0.5		0.1
44	0701 #1 Slusher		5,000	0.38	0.33		Nil.
45	0701 #2 Slusher		5,000	0.38	0.33		0.6
46	0701 Drill		5,000	0.38	0.34		0.4
47	1701 #1 Slusher		3,000	0.38	0.33		0.1
48	1701 #2 Slusher		3,000	0.38	0.33		0.1
49	1701 Drill		5,000	0.38	0.34		0.2
50	Incline shop		5,000	0.38			Nil
51	9800 Lunchroom		5,000	0.38	0.25		0.1
52	0334 #2 Slusher		2,000	0.38	0.67		0.3
53	0334 #1 Slusher		2,000	0.38	0.67		0.3
54	0334 Drill		5,000	0.38	0.66		0.2
55	0310 Mucking		6,000	0.38	1.0		0.1
56	0310 Drill		5,000	0.38	1.0		0.2
57	9007 #2 Slusher		4,000	0.38	0.67		0.2
58	9007 Drill		5.000	0.38	0.67		0.2
59	9007 #1 Slusher		4,000	0.38	0.66		0.1
	a benoties	Total	47000	-22	22	8	0.1

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The average weighted exposure for the various classes of mine personnel were as follows:

Maintenance and Management	-	0.2	х	working	level
Stope and Development	=	0.2	X	working	level
Haulages		0.1	x	working	level
Total Mine Exposure Index	=	0.2	x	working	level

ACKNOWLEDGEMENT

The courtesy and cooperation of the employees of Quivera's Section 35 Mine was greatly appreciated.

Inspected and Reported by: Edwin Dickens Pust and Mine Gas Inspector

jlå

Approved Manuel Duran

Manuel Duran State Inspector of Mince