



STATE OF NEW MEXICO  
INSPECTOR OF MINES DEPARTMENT  
505 MARQUETTE, N.W., ROOM 1103  
ALBUQUERQUE, NEW MEXICO 87101

SAFETY FIRST



JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

JUL 6 1976

OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129

RADIATION  
REPORT OF INSPECTION

I. D. No. 2901364

Western Section 21 Mine (Western Nuclear, Inc.)

Mine

Typed July 1, 1976

June 23, 1976

Underground

(Name)

(Date of Inspection)

Uranium Mine

McKinley

Frank Vario, Assistant Mine Supt.

(Classification of Mine)

(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:

GENERAL INFORMATION

Owner of mineral: Western Nuclear, Inc.

Company Officials:

P. R. Miller, Mine Superintendent

Frank Vario, Assistant Mine Superintendent

Ralph Pickle, Mine Engineer

Owner of Land: Department of Interior, Bureau of Indian Affairs

Mining method: modified room & pillar

Location: 17 miles N of Thoreau, on New Mexico Highway No. 57, then on Mariano Lake Road.

Last Radiation Inspection: January 22, 1976 and the report was posted.

Employment:

Total 54

Underground 49

Work Schedule:

Hours per shift 8

Shifts per day 2

Hours per week 40

The inspector was accompanied by Mr. Frank Vario, during the entire period of this inspection.

This mine is opened by one 10' x 15' in size decline, 2134' in length, pitching at 11.4% gradient. At the present time, development drifts are carried out to the east and west of the main decline. Modified room and pillar development in ore is being carried out east and west side of this decline.

VENTILATION AND RADIATION

This mine was ventilated by some 125,000 cubic feet per minute of fresh air delivered and exhausted through the openings on the following page.

9804140159 760706  
PDR ADOCK 04008907  
C PDR

JOE D. LONGACRE, SR.

State Inspector of Mines

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

<u>Opening</u>	<u>Size</u>	<u>Air Direction</u>	<u>Air Volume C.F.M.</u>	<u>Make of Fan</u>	<u>H.P.</u>	<u>Depth of Opening</u>
No. 1 B.H.	60" I.D.	exhaust	125,000	Bonanza	1-125	360'
11.4% decline	10'x15'	intake	125,000	-	-	2134'

The following is a list of radon-daughter concentrations and ventilation volume measurements and time-weighted exposure for each of the different types of mine personnel:

<u>Sample No.</u>	<u>Sample Location</u>	<u>Ventilation C.F.M.</u>	<u>Man Shift Exposure</u>			<u>Working Level</u>
			<u>M&amp;M</u>	<u>Stopes</u>	<u>Haulages</u>	
1	E haulage road development	12,000	1.0	4.0	-	Ni1
2	17S going E development	8,000	1.0	4.0	-	0.4
3	1300 haulage	10,000	1.0	-	2.0	0.3
4	8E going S development	6,000	1.0	2.0	-	0.3
5	17S off 0 X-cut haulage	80,000	1.0	-	2.0	Ni1
6	12 W going N off 15S development	3,500*	1.0	4.0	-	0.1
7	W haulage road	80,000	1.0	-	3.0	Ni1
8	lunchroom	convection	1.0	1.0	1.0	0.1
9	decline haulage	125,000	1.0	1.0	1.0	Ni1
10	W haulage road development	6,700	1.0	4.0	-	Ni1
11	18W going N off 21S development	12,000	1.0	4.0	-	0.1
12	19S going E off 16W development	8,000	1.0	4.0	-	Ni1
			12.0	28.0	9.0	

\* Notice Issued

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

Maintenance and Management = 0.1 x working level  
Stopes and developments = 0.1 x working level  
Haulageways = 0.1 x working level  
Total Mine Exposure Index = 0.1 x working level

#### NOTICES ISSUED JUNE 23, 1976

Notice No. 1, Section 63-28-9, NMSA: Dust condition shall be controlled throughout the mine. Abated June 23, 1976.

Notice No. 2, Section 63-28-9, NMSA: Ventilation tubing in E haulage development shall be kept at 30 feet or less from working face. Abated June 23, 1976.

Notice No. 3, Section 63-28-9, NMSA: Ventilation tubing in 17S going E drift development shall be kept at 30 feet or less from working face. Abated June 23, 1976.

Notice No. 4, Section 63-28-9, NMSA: Ventilation tubing in W haulage development shall be kept at 30 feet or less from working face. Abated June 23, 1976.

Notice No. 5, SIM Rule No. 71-1(2c): The 13S going E off 32E unventilated drift shall be posted against entry. (57.5-28M) Abated June 23, 1976.

Notice No. 6, SIM Rule No. 71-2(2c): Evidence of cigarette smoking was found in the lunch room area. (57.5-41M) Abated June 23, 1976

Notice No. 7, SIM Rule No. 71-2(2c): Evidence of cigarette smoking was found throughout the decline. (57.5-41M) Abated June 23, 1976.

Notice No. 8, SIM Rule No. 71-2(2c): Evidence of cigarette smoking was found in the E haulage. (57.5-41M) Abated June 23, 1976.

Notice No. 9, SIM Rule No. 71-2(2c): Evidence of cigarette smoking was found in 18W going N off 21S development. (57.5-41M) Abated June 23, 1976.

The above notices were discussed with Messrs. P. R. Miller and Frank Vario.

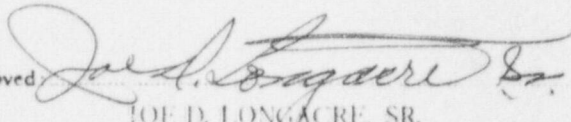
#### ACKNOWLEDGMENT

The courtesy and cooperation of Mr. Frank Vario, staff and personnel of the Section 21 mine during this inspection are hereby gratefully acknowledged.

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

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Approved

  
JOE D. LONGACRE, SR.  
State Inspector of Mines