



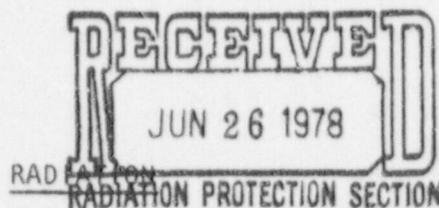
JOE D. LONGACRE, SR.  
STATE INSPECTOR OF MINES

**STATE OF NEW MEXICO**  
**INSPECTOR OF MINES DEPARTMENT**  
2340 MENAUL, N.E., SUITE 106  
ALBUQUERQUE, NEW MEXICO 87107

SAFETY FIRST



OFFICE TELEPHONE 842-3055  
RESIDENCE PHONE 344-1129



**REPORT OF INSPECTION**

I.D. No. 2900539  
Section 30 West (Kerr-McGee Nuclear Corporation) { Mine  
(Name)  
Underground  
Uranium (Classification of Mine)  
McKinley (County in which located)  
Pat Murphy, Environmental Technician (Company representative present at inspection)  
Typed June 21, 1978  
June 12, 13, 14, 1978 (Date of 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 and Operator: Kerr-McGee  
Nuclear Corporation

**Company Officials:**

B. Stevens, Manager of Operations  
A. Gebeau, Manager of Mines  
M. Korbe, Division Superintendent  
J. Kunitz, Mine Superintendent  
N. Holton, General Mine Foreman  
J. Cleveland, Environmental and Industrial  
Hygiene Supervisor

Location: approximately 24 miles  
NW of Grants, NM, Ambrosia Lake  
district.

Employment: 215

**Work Schedule:**

Hours per shift 8  
Shifts per day 3  
Days per week 5

Previous radiation inspection: February, 1978

The inspector was accompanied by Pat Murphy during the inspection. Duplicate radon-daughter samples were taken for comparison purposes.

The mine was ventilated by air delivered and exhausted through the following openings:

Opening	I.D.	Air Direction	Ventilation c.f.m.	Fan	HP
No. 1 BH	48"	exhaust	62,200	Joy, Hartzell	125,125
No. 2 BH	48"	intake	82,500	Hartzell	(2)125
No. 3 BH	45"	exhaust	66,000	Hartzell	(2)125
No. 4 BH	42"	exhaust	35,000	Joy	125
No. 5 BH	60"	exhaust	80,000	Westinghouse	200
No. 6 BH	60"	exhaust	77,400	Joy	(2)125
Shaft	152"	intake	285,000	-	-
No. 3 (Sec. 30)	36"	exhaust	10,40	Hartzell	20
No. 4 (Sec. 30)	36"	exhaust	37,000	Joy	(2)125

9804280299 780621  
PDR ADOCK 04008907  
C PDR

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Main fans are surface mounted, electrically powered, centrifugal and axial flow type units. Boresholes are steel lined throughout the length of the opening. Air was distributed to the working places by use of auxiliary fans and vent tubing. Underground airflow was controlled by bulkheads, air doors, brattices and curtains.

Listed below are the radon daughter concentrations, ventilation volumes and average weighted exposures:

Sample No.	Sample Location	Ventilation c.f.m.	Man-Shift Exposure			Working Level
			M&M	Stopes	Haulages	
1	1023 No. 1 slusher	800	1.0	1.5		0.08
2	1023 No. 2 slusher	800	1.0	1.5		0.14
3	1023 drill	700	1.0	1.0		0.56
4	3903 drill	700	1.0	1.0		0.11
5	3903 slusher	free flow	1.0	1.0		Nil
6	2403 slusher	1,000	1.0	2.0		0.24
7	2403 L.H. drill	1,000	1.0	1.0		0.22
8	2204 slusher	1,000	1.0	1.0		Nil
9	2204 drill	500	1.0	1.0		Nil
10	3711 raise development	convection	1.0	3.0		0.08
11	3709 work drift	natural flow	1.0	1.0		0.48
12	3709 set up	1,200	1.0	1.0		0.42
13	3703 slusher	1,000	1.0	2.0		Nil
14	3703 timber	1,000	1.0	2.0		5.0
15	3703 timber	1,000	- Resample, Cease Work Order Abated.			0.95
16	3516 raise development	500	1.0	2.0		0.22
17	3515 slusher	1,000	1.0	2.0		0.12
18	3515 bolter	1,200	1.0	1.0		0.33
19	3316 slusher	1,500	1.0	2.0		0.15
20	3315 slusher	500	1.0	2.0		1.60
21	2919 slusher	900	1.0	1.0		1.10
22	2919 drill	2,000	1.0	1.0		1.35
23	1113 set up	1,000	1.0	2.0		Nil
24	1113 drill	1,000	1.0	1.0		Nil
25	1114 raise development	natural flow	1.0	2.0		Nil
26	1100 and 1000 haulages	80,000	1.0		4.0	Nil
27	2006 drill	1,000	1.0	1.0		Nil
28	2006 slusher	1,000	1.0	1.0		Nil
29	1208 mucker	8,000	1.0	2.0	2.0	0.06
30	1707 drill	900	1.0	1.0		Nil
31	1707 slusher	700	1.0	1.0		Nil
32	1707 L.H. drill	500	1.0	1.0		0.05
33	1900 haulage development	2,000	1.0	2.0		1.15
34	1900 haulage development	6,500	- Resample, Cease Work Order Abated.			0.05
35	1905 slusher	1,200	1.0	2.0		0.06
36	1905 L. H. drill	1,500	1.0	1.0		0.20
37	2103 timber	1,800	1.0	2.0		0.07
38	1307 slusher	1,200	1.0	2.0		0.56
39	1308 drill	1,500	1.0	2.0		Nil
40	0602 No. 1 slusher	700	1.0	2.0		Nil
41	0602 No. 2 slusher	800	1.0	2.0		Nil



Sample No.	Sample Location	Ventilation c.f.m.	Man-Shift Exposure			Working Level
			M&M	Stopes	Haulages	
42	0304 slusher	1,000	1.0	2.0		0.06
43	0304 bolter	900	1.0	1.0		0.09
44	2919 drill - Resample, Cease Work Order Abated.					0.61
45	2919 slusher - Resample, Cease Work Order Abated.					0.90
46	3315 slusher - Resample, Cease Work Order Abated.					0.42
47	8306 slusher	1,000	1.0	2.0		0.96
48	8403 slusher	900	1.0	0.5		0.05
49	8403 drill	1,200	1.0	0.5		0.06
50	8206 raise development	1,500	1.0	2.0		Nil
51	8206 slusher	800	1.0	1.0		0.21
52	7000, 7800, 8000 haulages	40,000	1.0		2.0	Nil
53	1-5 station area	adequate	1.0		3.0	Nil
54	1-4 station area	adequate	1.0		3.0	Nil
TOTALS			49.0	67.0	14.0	

The average weighted exposures were as follows:

Maintenance and Management - 0.32 x working level  
Stopes and Developments - 0.38 x working level  
Haulages - 0.01 x working level  
Total Mine Exposure Index - 0.32 x working level

#### CANCELLATION OF NOTICE ISSUED 2-13-78

Notice No. 4, Section 63-22-1, NMSA; (57.11-3M) Cancelled 6-14-78.

#### ORDERS ISSUED 6-14-78

Order No. 1, SIM Rule No. 76-1(2c): For high radiation at 3703 timber position. (57.5-39M) Abated 6-14-78.

Order No. 2, SIM Rule No. 76-1(2c): For high radiation at 2919 stope. (57.5-39M) Abated 6-14-78.

Order No. 3, SIM Rule No. 76-1(2c): For high radiation at 3315 slusher. (57.5-39M) Abated 6-14-78.

Order No. 4, SIM Rule No. 76-1(2c): For high radiation in 1900 haulage. (57.5-39M) Abated 6-14-78.

#### NOTICES ISSUED 6-14-78

Notice No. 1, SIM Rule No. 75-1(c): The drill in 3903 shall be provided with a safety chain. (57.13-21M) Abated 6-14-78.

Notice No. 2, SIM Rule No. 71-1(2c): The manway at 3703 shall be made a safe access. (57.11-1M) Abated 6-14-78.

Notice No. 3, SIM Rule No. 71-1(2c): The explosives car at the 1-4 station shall have wheels scotched. (57.9-47M) Abated 6-14-78.

Notice No. 4, SIM Rule No. 75-3(c): The man drilling in 1707 shall wear ear protection. (57.5-50(a)M) Abated 6-14-78.

Notice No. 5, Section 63-28-5, NMSA: Grizzlies shall be covered when not in use. Abated 6-14-78.

The inspection was discussed with Jim Kunitz, Norman Holton and Pat Murphy.

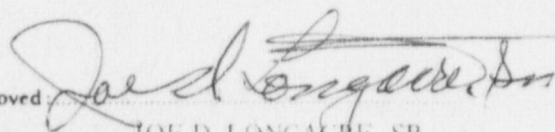
ACKNOWLEDGEMENT

The courtesy and cooperation of the staff and personnel of the Section 30 West Mine are hereby gratefully acknowledged.

Inspected and Reported by:  
George C. Henckel  
Dust and Mine Gas Inspector  
Deputy Inspector of Mines

jmz

Approved



JOE D. LONGACRE, SR.  
State Inspector of Mines