Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217

ENERGY MINERALS DIVISION — U.S.

June 17, 1980

Mr. Gerald W. Stewart
Program Manager
P. O. Box 968
Crown Building
Santa Fe, New Mexico 87503

Radioactive Material License
NM - MOB - UL - 01
Second Evaporation Pond

Dear Mr. Stewart:

In "Responses to Comments and Questions on Mobil In Situ Leach Pilot Test - Radiation Protection Section dated September 14, 1978" submitted October 26, 1978, pp 5-6 it was stated Mobil would construct an additional evaporation pond to provide adequate waste pond capacity to handle liquid wastes generated during restoration if operating experience and subsequent calculation indicated additional evaporation pond capacity will be required. Calculations have been made and indicate a second evaporation pond will be needed. This is to notify the NMEID Mobil will be constructing this pond at the Crownpoint Pilot In Situ Leach Test Site on the SW/4 Section 9, T17N, R13W, in the near future.

Enclosed for your records is information on the additional evaporation pond. This information includes:

1. A plat of the pilot test site showing the location of the evaporation pond.

2. Engineering drawing of the evaporation pond.

Five copies of each of these drawings are enclosed.

The pond will be similar in design to the existing pond at the pilot test site. There will be an underdrain system and pond monitor wells. Monitoring activities will be similar to those currently being followed. If solution is found in the underdrain system, samples will be taken from the pond monitor wells (if present) and the riser pipe every two

days and analyzed for the same construction as the present pond monitors are. Otherwise the pond monitor wells will be sampled once per month, if water is present, and analyzed for the sample constituents as the present pond monitors are. Pond sampling and monitoring will be the same for both the ponds.

If you have any questions about this please contact D. A. Bauer at (303) 572-2731.

Sincerely,

D. B. Cooper
Uranium Producing Manager

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ATTACHMENT 5

Comparison of Parameter Concentrations for Pregnant Lixiviant Versus New Mexico Standards for Ground Water of 10,000 mg/l TDS Concentration or Less

(Sample Taken 10/8/80)

Parameter	New Mexico Standard (mg/l)	Pregnant Lixiviant Section 9 Pilot Leach (mg/l)
Aluminum	5.0	<0.2
Arsenic	0.1	0.054
Barium	1.0	0.10
Boron	0.75	0.2
Cadmium	0.01	0.01
Chloride	250.	1,800.
Chromium	0.05	0.02
Cobalt	0.05	0.15
Copper	1.0	0.04
Cyanide	0.2	<0.005
Fluoride	1.6	0.3
Iron	1.0	0.02
Lead	0.05	0.005
Manganese	0.2	5.85
Molybdenum	1.0	62.
Mercury	0.002	<0.0001
Nickel	0.2	0.09
Nitrate	10.0	0.17
pH	6-9*	7.4*
Phenols	0.005	0.005
Combined Radium 226 & 228	30.0 pCi/l	150.0 pCi/l
Selenium	0.05	4.6
Silver	0.05	0.02
Sulfate	600.	1,100.
Total Dissolved Solids	1,000.	5,500.
Uranium	5.0	105.0
Zinc	10.0	0.39

*Dimensionless (units)