

Mobil Oil Corporation

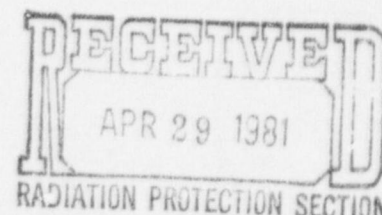
P.O. BOX 5444
DENVER, COLORADO 80217

URANIUM/MINERALS DIVISION

April 22, 1981

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Gerald W. Stewart
Environmental Program Manager
State of New Mexico
Uranium Licensing Section
Radiation Protection Bureau
Environmental Improvement Division
P. O. Box 968
Santa Fe, New Mexico 87503



CROWNPOINT SECTION 9
PILOT IN SITU URANIUM MINE
RESTORATION PHASE DATA

Dear Mr. Stewart:

Mobil Oil Corporation, Uranium/Minerals Division, submits the following data from the restoration phase in accordance with Mobil's Interim Mining and Reclamation Plan, Mobil's Radioactive Materials License (NM-MOB-UL-02), and Mobil's Discharge Plan (DP-26) for the Crownpoint Section 9 Pilot In Situ Uranium Mine.

A. Weekly Analysis Reports for the month of March.

This data is reported for the following wells:

1. Upper Westwater Canyon monitor well 9U-276A.
2. Production zone monitor wells: 9U-277, 9U-278, 9U-280.

B. Biweekly Analysis Reports for the month of February and March for the R/O Permeate.

C. Monthly Analysis Reports for initial submittal for the following sampling date of March 18, 1981, and resubmittal of the February 18, 1981, sampling date for additional results.

This data is reported for the following wells:

1. Upper Westwater Canyon monitor well 9U-276A.
2. Production zone monitor wells: 9U-277, 9U-278, 9U-280.

9807200282 810422
PDR ADOCK 04008911
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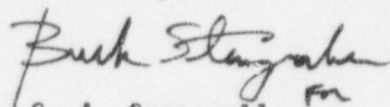
Mobil

State of New Mexico
Uranium Licensing Section
April 22, 1981
Page Two

In the future, these reports will be incorporated into the Monthly Report.

If you have any questions concerning data contained in these reports, please contact me at (303) 572-2585.

Sincerely,

A handwritten signature in dark ink, appearing to read "G. A. Cresswell".

G. A. Cresswell
Manager - Hydrological &
Environmental Affairs

MLSkwirz:dp
Attachments

cc: R. D. Peirce, Mobil - Crownpoint
P. W. Richardson, Nufuels
W. A. Steingraber, Mobil
P.F. 1.A.1.3.13

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 3-4-81

REPORT NO. 81-5

CROWNPOINT, SECTION 9, PILOT TEST

WEEKLY DATA REPORT

<u>WELL NO.</u>	<u>pH</u>	<u>Ec</u> (μ mhos)
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* 9U-276A	_____	_____
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* 9U-277	_____	_____
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9U-278	<u>8.8</u>	<u>440</u>
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9U-280	<u>8.7</u>	<u>435</u>
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COMMENTS: * Sampling of these wells will begin on
March 18, 1981.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 3-11-81

REPORT NO. 31-6

CROWNPOINT, SECTION 9, PILOT TEST

WEEKLY DATA REPORT

WELL NO.	pH	Ec (μ mhos)
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* 9U-276A	_____	_____
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* 9U-277	_____	_____
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9U-278	<u>8.6</u>	<u>326</u>
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9U-280	<u>8.8</u>	<u>289</u>
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COMMENTS: * Sampling of these wells will begin on
March 18, 1981.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 3-18-81

REPORT NO. 81-7

CROWNPOINT, SECTION 9, PILOT TEST

WEEKLY DATA REPORT

WELL NO.	pH	Ec (μ mhos)
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* 9U-276A	_____	_____
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9U-277	<u>8.4</u>	<u>460</u>
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9U-278	<u>8.4</u>	<u>481</u>
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9U-280	<u>8.3</u>	<u>484</u>
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COMMENTS:

* Difficulties have arisen in installing a
sampling pump in well 9U-276A. Well 9U-276A
will be sampled as soon as a sampling pump is
installed.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 3-25-81

REPORT NO. 81-8

CROWNPOINT, SECTION 9, PILOT TEST

WEEKLY DATA REPORT

WELL NO.	pH	Ec (μ mhos)
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* 9U-276A	_____	_____
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9U-277	<u>8.8</u>	<u>445</u>
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9U-278	<u>8.8</u>	<u>460</u>
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9U-280	<u>8.9</u>	<u>443</u>
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COMMENTS:

* Difficulties have arisen in installing a
sampling pump in well 9U-276A. Well 9U-276A
will be sampled as soon as a sampling pump
can be installed.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 2/9/81

REPORT NO. 81-1

CROWNPOINT, SECTION 9, PILOT TEST BIWEEKLY DATA REPORT

SAMPLE	EC (μ mhos)	SULFATE (mg/l)	URANIUM (mg/l)	MOLYBDENUM (mg/l)	SODIUM (mg/l)
R/C Permeate	<u>455</u>	<u>2.0</u>	<u>0.1</u>	<u>0.6</u>	<u>139</u>

COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 2/23/81

REPORT NO. 81-2

CROWNPOINT, SECTION 9, PILOT TEST

BIWEEKLY DATA REPORT

SAMPLE

<u>Ec</u> (μ mhos)	<u>SULFATE</u> (mg/l)	<u>URANIUM</u> (mg/l)	<u>MOLYBDENUM</u> (mg/l)	<u>SODIUM</u> (mg/l)
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R/O
Permeate

<u>455</u>	<u>8.0</u>	<u>0.1</u>	<u>0.4</u>	<u>112</u>
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COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 3/9/81

REPORT NO. 81-3

CROWNPOINT, SECTION 9, PILOT TEST

BIWEEKLY DATA REPORT

SAMPLE

<u>Ec</u> (μ mhos)	<u>SULFATE</u> (mg/l)	<u>URANIUM</u> (mg/l)	<u>MOLYBDENUM</u> (mg/l)	<u>SODIUM</u> (mg/l)
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R/O
Permeate

<u>600</u>	<u>12.0</u>	<u>0.2</u>	<u>0.7</u>	<u>107</u>
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COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 3/23/81

REPORT NO. 81-4

CROWNPOINT, SECTION 9, PILOT TEST BIWEEKLY DATA REPORT

SAMPLE	<u>Ec</u> (μ mhos)	<u>SULFATE</u> (mg/l)	<u>URANIUM</u> (mg/l)	<u>MOLYBDENUM</u> (mg/l)	<u>SODIUM</u> (mg/l)
R/O Permeate	<u>410</u>	<u>12.0</u>	<u><0.1</u>	<u>0.8</u>	<u>82</u>

COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 3/18/81

REPORT NO. 01-3

CROWNPOINT, SECTION 9, PILOT TEST MONTHLY DATA REPORT

WELL NO.	SULFATE (mg/l)	URANIUM (mg/l)	MOLYBDENUM (mg/l)	SODIUM (mg/l)	GROSS α (pci/l)	GROSS β (pci/l)
* 9U-276A						
9U-277	<u>42</u>	<u><0.1</u>	<u>1.1</u>	<u>114</u>		
9U-278	<u>38</u>	<u><0.1</u>	<u><0.2</u>	<u>111</u>		
9U-280	<u>41</u>	<u><0.1</u>	<u><0.2</u>	<u>118</u>		

COMMENTS: * Difficulties in pump installation have
delayed sampling.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 2-18-81

REPORT NO. 81-2

CROWNPCINT, SECTION 9, PILOT TEST MONTHLY DATA REPORT

<u>WELL NO.</u>	<u>SULFATE</u> (mg/l)	<u>URANIUM</u> (mg/l)	<u>MOLYBDENUM</u> (mg/l)	<u>SODIUM</u> (mg/l)	<u>GROSS α</u> (pci/l)	<u>GROSS β</u> (pci/l)
* 9U-276A	_____	_____	_____	_____	_____	_____
* 9U-277	_____	_____	_____	_____	_____	_____
9U-278	<u>38</u>	<u><0.1</u>	<u><0.2</u>	<u>117</u>	<u>6$\pm$3</u>	<u>9$\pm$3</u>
9U-280	<u>34</u>	<u><0.1</u>	<u><0.2</u>	<u>124</u>	<u>4$\pm$3</u>	<u>7$\pm$3</u>

* COMMENTS: Sampling of these wells will begin
on March 18, 1981 as stipulated by the
U.S. Geological Survey.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 2-18-81

REPORT NO. 81-2**

CROWNPOINT, SECTION 9, PILOT TEST MONTHLY DATA REPORT

WELL NO.	ARSENIC (mg/l)	MERCURY (total) (mg/l)	CADMIUM (mg/l)	ZINC (mg/l)	FLOURIDE (mg/l)
* 9U- 276A	_____	_____	_____	_____	_____
* 9U- 277	_____	_____	_____	_____	_____
9U- 278	<u><0.005</u>	<u>0.0001</u>	<u><0.01</u>	<u>0.04</u>	<u>0.2</u>
9U- 280	<u><0.005</u>	<u>0.0003</u>	<u><0.01</u>	<u><0.01</u>	<u>0.3</u>

COMMENTS: * Sampling of these wells began on
March 18, 1981 as stipulated by the
U.S. Geological Survey.

** This report* corresponds to sampling date 2-18-81.
81-1* of these analysis not required.