

Mobil Oil Corporation

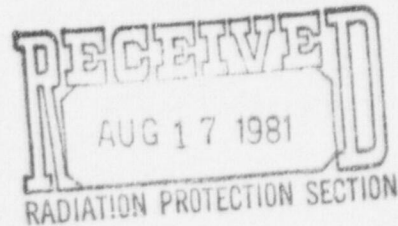
P.O. BOX 5444
DENVER, COLORADO 80217

URANIUM/MINERALS DIVISION

August 11, 1981

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Gerald W. Stewart
Environmental Program Manager
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
MONTHLY DATA REPORT - JULY 1981

Dear Mr. Stewart:

Mobil Oil Corporation, Uranium/Minerals submits the following monthly data report 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 July.

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 initial submittal for the following sampling dates: July 8 and 22, 1981; resubmittal for the addition of alpha and beta results for the following sampling dates: May 27 and June 11, 1981; and resubmittal of the June 24, 1981 sampling date for the correction of the sulfate value for well number 9U-207.

This data is reported for the following wells:

1. Production zone monitor wells: 9U-202, 9U-221, 9U-222, 9U-223, 9U-224, 9U-225, 9U-279
2. Dakota monitor well 9U-207
3. Lower Westwater Canyon monitor well 9U-276B

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Mr. Gerald W. Stewart
August 11, 1981
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C. Monthly analysis report for the sampling date of July 8, 1981.

This data is reported for the following wells:

1. Production zone monitor wells: 9U-202, 9U-221, 9U-222, 9U-223, 9U-224, 9U-225, 9U-279
2. Dakota monitor well 9U-207
3. Lower Westwater Canyon monitor well 9U-276B

D. Monthly analysis reports required during restoration phase for initial submittal for the sampling date of July 8, 1981, and resubmittal of the June 11, 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

E. Pond monitor analysis reports (for ponds 1, 2, and 3) for this reporting period.

NOTE: On July 16, 1981, fluids were found in the previously dry pond monitor well 9P-10. The underdrain leak-detection system was dry. Analysis of the fluids indicate that fluids did not come from the pond, but accumulated due to precipitation. Pond monitor well 9P-10 has remained dry since July 24, 1981.

F. Weekly water level measurements for all of the monitor wells for this reporting period.

G. Process stream data for this reporting period.

H. Supplemental radiological data for the sample collection date: May 13, 1981.

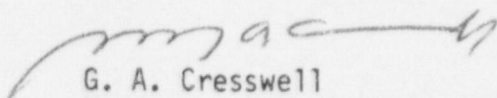
On June 10, 1981, injection of R/O permeate into well 9U-80 was discontinued. As a result, biweekly analysis reports for the R/O permeate are not being submitted. Reporting of R/O permeate quality will resume upon reinjection into well 9U-80.

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If you have any questions concerning data reported on these forms, please contact Greg Cresswell (303) 572-2585.

Very truly yours



G. A. Cresswell
Manager - Hydrological and
Environmental Affairs

MLSkwirz:dp
Attachments

cc: R. D. Peirce
P. W. Richardson, Nufuels, w/o
W. A. Steingraber, w/o
P.F. 1.A.1.3.5(a)/1.A.1.3.13

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-1-81

REPORT NO. 81-22

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	<u>9.1</u>	<u>520</u>
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9U-277	<u>9.1</u>	<u>520</u>
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9U-278	<u>8.9</u>	<u>500</u>
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9U-280	<u>9.0</u>	<u>490</u>
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COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-8-81

REPORT NO. 81-23

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	<u>8.7</u>	<u>499</u>
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9U-277	<u>8.3</u>	<u>503</u>
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9U-278	<u>8.7</u>	<u>460</u>
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9U-280	<u>8.6</u>	<u>480</u>
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COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-15-81

REPORT NO. 81-24

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	<u>9.0</u>	<u>505</u>
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9U-277	<u>8.7</u>	<u>550</u>
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9U-278	<u>8.8</u>	<u>500</u>
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9U-280	<u>8.8</u>	<u>520</u>
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COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-22-81

REPORT NO. 81-25

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	<u>9.2</u>	<u>530</u>
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9U-277	<u>8.8</u>	<u>563</u>
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9U-278	<u>9.0</u>	<u>483</u>
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9U-280	<u>9.0</u>	<u>515</u>
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COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-29-81

REPORT NO. 81-26

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	<u>9.0</u>	<u>530</u>
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9U-277	<u>8.8</u>	<u>580</u>
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9U-278	<u>9.0</u>	<u>460</u>
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9U-280	<u>9.2</u>	<u>520</u>
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COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-8-81

REPORT NO. 81-14

CROWNPOINT, SECTION 9, PILOT TEST

BIWEEKLY DATA REPORT

WELL NO.	pH	Ec (μ mhos)	(600)	(5)	(1.0)	(1.0K)	GROSS A (pci/l)	GROSS B (pci/l)
			SULFATE (mg/l)	URANIUM (mg/l)	MOLYBDENUM (mg/l)	SODIUM (mg/l)		
9U-202	<u>8.3</u>	<u>444</u>	<u>37</u>	<u><0.1</u>	<u><0.2</u>	<u>110</u>		
9U-207	<u>7.0</u>	<u>904</u>	<u>265</u>	<u><0.1</u>	<u><0.2</u>	<u>188</u>		
9U-221	<u>8.4</u>	<u>453</u>	<u>36</u>	<u><0.1</u>	<u><0.2</u>	<u>110</u>		
9U-222	<u>9.1</u>	<u>480</u>	<u>36</u>	<u><0.1</u>	<u><0.2</u>	<u>120</u>		
9U-223	<u>8.5</u>	<u>454</u>	<u>33</u>	<u><0.1</u>	<u>0.2</u>	<u>110</u>		
9U-224	<u>8.8</u>	<u>458</u>	<u>36</u>	<u><0.1</u>	<u><0.2</u>	<u>112</u>		
9U-225	<u>8.5</u>	<u>443</u>	<u>21</u>	<u><0.1</u>	<u><0.2</u>	<u>110</u>		
9U-276B	<u>8.3</u>	<u>681</u>	<u>110</u>	<u><0.1</u>	<u><0.2</u>	<u>168</u>		
9U-279	<u>8.6</u>	<u>462</u>	<u>33</u>	<u><0.1</u>	<u>0.2</u>	<u>119</u>		

COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-22-81

REPORT NO. 81-15

CROWNPOINT, SECTION 9, PILOT TEST

BIWEEKLY DATA REPORT

WELL NO.	pH	Ec (μ mhos)	SULFATE (mg/l)	URANIUM (mg/l)	MOLYBDENUM (mg/l)	SODIUM (mg/l)	GROSS α (pci/l)	GROSS β (pci/l)
9U-202	<u>8.9</u>	<u>465</u>	<u>37</u>	<u><0.1</u>	<u><0.2</u>	<u>107</u>		
9U-207	<u>7.4</u>	<u>975</u>	<u>250</u>	<u><0.1</u>	<u><0.2</u>	<u>186</u>		
9U-221	<u>8.8</u>	<u>505</u>	<u>37</u>	<u><0.1</u>	<u><0.2</u>	<u>110</u>		
9U-222	<u>9.2</u>	<u>520</u>	<u>35</u>	<u><0.1</u>	<u><0.2</u>	<u>119</u>		
9U-223	<u>9.0</u>	<u>480</u>	<u>34</u>	<u><0.1</u>	<u><0.2</u>	<u>112</u>		
9U-224	<u>9.1</u>	<u>487</u>	<u>35</u>	<u><0.1</u>	<u><0.2</u>	<u>111</u>		
9U-225	<u>8.6</u>	<u>460</u>	<u>21</u>	<u><0.1</u>	<u><0.2</u>	<u>107</u>		
9U-276B	<u>8.8</u>	<u>695</u>	<u>110</u>	<u><0.1</u>	<u><0.2</u>	<u>168</u>		
9U-279	<u>9.0</u>	<u>490</u>	<u>32</u>	<u><0.1</u>	<u><0.2</u>	<u>114</u>		

COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 5-27-81

REPORT NO. 81-11

CROWNPOINT, SECTION 9, PILOT TEST

BIWEEKLY DATA REPORT

WELL NO.	pH	Ec (μ mhos)	SULFATE (mg/l)	URANIUM (mg/l)	MOLYBDENUM (mg/l)	SODIUM (mg/l)	GROSS α (pci/l)	GROSS β (pci/l)
9U-202	<u>8.6</u>	<u>390</u>	<u>43</u>	<u><0.1</u>	<u><0.2</u>	<u>110</u>	<u>1$\pm$2</u>	<u>4$\pm$2</u>
9U-207	<u>7.8</u>	<u>850</u>	<u>240</u>	<u><0.1</u>	<u><0.2</u>	<u>190</u>	<u>2$\pm$3</u>	<u>9$\pm$4</u>
9U-221	<u>8.8</u>	<u>400</u>	<u>40</u>	<u><0.1</u>	<u><0.2</u>	<u>110</u>	<u>19$\pm$4</u>	<u>11$\pm$2</u>
9U-222	<u>9.0</u>	<u>440</u>	<u>39</u>	<u><0.1</u>	<u><0.2</u>	<u>118</u>	<u>3$\pm$2</u>	<u>3$\pm$2</u>
9U-223	<u>8.7</u>	<u>409</u>	<u>34</u>	<u><0.1</u>	<u><0.2</u>	<u>110</u>	<u>7$\pm$3</u>	<u>4$\pm$2</u>
9U-224	<u>8.8</u>	<u>335</u>	<u>33</u>	<u><0.1</u>	<u><0.2</u>	<u>89</u>	<u>8$\pm$3</u>	<u>7$\pm$2</u>
9U-225	<u>8.4</u>	<u>411</u>	<u>29</u>	<u><0.1</u>	<u><0.2</u>	<u>108</u>	<u>28$\pm$4</u>	<u>22$\pm$2</u>
9U-276B	<u>8.7</u>	<u>686</u>	<u>125</u>	<u><0.1</u>	<u><0.2</u>	<u>162</u>	<u>4$\pm$2</u>	<u>4$\pm$2</u>
9U-279	<u>8.8</u>	<u>420</u>	<u>38</u>	<u><0.1</u>	<u><0.2</u>	<u>110</u>	<u>(1)</u>	<u>(1)</u>

COMMENTS: (1) ONLY REQUIRED ONCE A MONTH

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 6-11-81

REPORT NO. 81-12

CROWNPOINT, SECTION 9, PILOT TEST

BIWEEKLY DATA REPORT

WELL NO.	pH	Ec (μ mhos)	SULFATE (mg/l)	URANIUM (mg/l)	MOLYBDENUM (mg/l)	SODIUM (mg/l)	GROSS α (pci/l)	GROSS β (pci/l)
9U-202	<u>8.1</u>	<u>458</u>	<u>38.0</u>	<u><0.1</u>	<u><0.2</u>	<u>107.0</u>	<u>9$\pm$4</u>	<u>1$\pm$3</u>
9U-207	<u>7.0</u>	<u>924</u>	<u>245.0</u>	<u><0.1</u>	<u><0.2</u>	<u>180.0</u>	<u>3$\pm$3</u>	<u>5$\pm$4</u>
9U-221	<u>8.2</u>	<u>459</u>	<u>36.0</u>	<u><0.1</u>	<u><0.2</u>	<u>106.0</u>	<u>22$\pm$5</u>	<u>8$\pm$3</u>
9U-222	<u>8.4</u>	<u>500</u>	<u>36.0</u>	<u><0.1</u>	<u><0.2</u>	<u>117.0</u>	<u>3$\pm$2</u>	<u>0$\pm$3</u>
9U-223	<u>8.2</u>	<u>460</u>	<u>33.0</u>	<u><0.1</u>	<u><0.2</u>	<u>109.0</u>	<u>2$\pm$2</u>	<u>1$\pm$3</u>
9U-224	<u>8.2</u>	<u>455</u>	<u>41.0</u>	<u><0.1</u>	<u><0.2</u>	<u>107.0</u>	<u>10$\pm$4</u>	<u>2$\pm$3</u>
9U-225	<u>8.0</u>	<u>440</u>	<u>26.0</u>	<u><0.1</u>	<u><0.2</u>	<u>104.0</u>	<u>53$\pm$8</u>	<u>18$\pm$3</u>
9U-276B	<u>8.1</u>	<u>700</u>	<u>120.0</u>	<u><0.1</u>	<u><0.2</u>	<u>152.0</u>	<u>-1$\pm$2</u>	<u>2$\pm$3</u>
9U-279	<u>8.3</u>	<u>465</u>	<u>35.0</u>	<u><0.1</u>	<u><0.2</u>	<u>114.0</u>	<u>2$\pm$2</u>	<u>0$\pm$3</u>

COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 6-24-81

REPORT NO. 81-13

CROWNPOINT, SECTION 9, PILOT TEST

BIWEEKLY DATA REPORT

WELL NO.	pH	Ec (μ mhos)	SULFATE (mg/l)	URANIUM (mg/l)	MOLYBDENUM (mg/l)	SODIUM (mg/l)	GROSS A (pci/l)	GROSS B (pci/l)
9U-202	<u>8.7</u>	<u>500</u>	<u>42</u>	<u><0.1</u>	<u><0.2</u>	<u>112</u>		
9U-207	<u>7.3</u>	<u>920</u>	<u>240⁽¹⁾</u>	<u><0.1</u>	<u><0.2</u>	<u>186</u>		
9U-221	<u>8.9</u>	<u>485</u>	<u>41</u>	<u><0.1</u>	<u><0.2</u>	<u>115</u>		
9U-222	<u>9.1</u>	<u>505</u>	<u>41</u>	<u><0.1</u>	<u><0.2</u>	<u>121</u>		
9U-223	<u>8.7</u>	<u>460</u>	<u>39</u>	<u><0.1</u>	<u><0.2</u>	<u>107</u>		
9U-224	<u>8.9</u>	<u>455</u>	<u>37</u>	<u><0.1</u>	<u><0.2</u>	<u>112</u>		
9U-225	<u>8.4</u>	<u>440</u>	<u>27</u>	<u><0.1</u>	<u><0.2</u>	<u>111</u>		
9U-276B	<u>8.6</u>	<u>705</u>	<u>135</u>	<u><0.1</u>	<u><0.2</u>	<u>162</u>		
9U-279	<u>8.9</u>	<u>465</u>	<u>36</u>	<u><0.1</u>	<u><0.2</u>	<u>111</u>		

COMMENTS: (1) The sulfate value reported in the June 1981

Monthly Data Report was incorrect for well 9U-207 on
the 6-24-81 biweekly data report sheet. Please insert
this sheet with the corrected value in its place.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-8-81

REPORT NO. 81-7

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-202	<u><0.005</u>	<u>0.0002</u>	<u>0.01</u>	<u>0.02</u>	<u>0.3</u>
9U-207	<u><0.005</u>	<u>0.0002</u>	<u>0.01</u>	<u>0.02</u>	<u>0.3</u>
9U-221	<u><0.005</u>	<u>0.0002</u>	<u><0.01</u>	<u>0.03</u>	<u>0.2</u>
9U-222	<u><0.005</u>	<u><0.0001</u>	<u><0.01</u>	<u>0.01</u>	<u>0.3</u>
9U-223	<u><0.005</u>	<u>0.0001</u>	<u><0.01</u>	<u>0.01</u>	<u>0.3</u>
9U-224	<u><0.005</u>	<u><0.0001</u>	<u><0.01</u>	<u>0.01</u>	<u>0.3</u>
9U-225	<u><0.005</u>	<u>0.0001</u>	<u>0.01</u>	<u>0.09</u>	<u>0.3</u>
9U-276B	<u><0.005</u>	<u>0.0001</u>	<u>0.01</u>	<u>0.01</u>	<u>0.4</u>
9U-279	<u><0.005</u>	<u>0.0001</u>	<u>0.01</u>	<u>0.01</u>	<u>0.2</u>

COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-8-81

REPORT NO. 81-7

CROWNPOINT, SECTION 9, PILOT TEST

MONTHLY DATA REPORT

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

COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-8-81

REPORT NO. 81-7

CROWNPOINT, SECTION 9, PILOT TEST

MONTHLY DATA REPORT

(Page 2 of 2)

WELL NO.	SULFATE (mg/l)	URANIUM (mg/l)	MOLYBDENUM (mg/l)	SODIUM (mg/l)	GROSS α (pci/l)	GROSS β (pci/l)
9U-276A	<u>35</u>	<u><0.1</u>	<u><0.2</u>	<u>125</u>		
9U-277	<u>51</u>	<u><0.1</u>	<u>2.7</u> ✓	<u>121</u>		
9U-278	<u>33</u>	<u><0.1</u>	<u><0.2</u>	<u>111</u>		
9U-280	<u>33</u>	<u><0.1</u>	<u><0.2</u>	<u>111</u>		

COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 6-11-81

REPORT NO. 81-6

CROWNPOINT, SECTION 9, PILOT TEST

MONTHLY DATA REPORT

(Page 2 of 2)

<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 A</u> (pci/l)	<u>GROSS B</u> (pci/l)
9U-276A	<u>39.0</u>	<u><0.1</u>	<u><0.2</u>	<u>114.0</u>	<u>3±2</u>	<u>1±3</u>
9U-277	<u>49.0</u>	<u><0.1</u>	<u>1.7</u> ✓	<u>116.0</u>	<u>1±2</u>	<u>-2±2</u>
9U-278	<u>36.0</u>	<u><0.1</u>	<u><0.2</u>	<u>114.0</u>	<u>3±2</u>	<u>3±3</u>
9U-280	<u>37.0</u>	<u><0.1</u>	<u><0.2</u>	<u>118.0</u>	<u>4±3</u>	<u>-3±3</u>

COMMENTS: _____

Mobil Oil Corporation

ENERGY MINERALS DIVISION

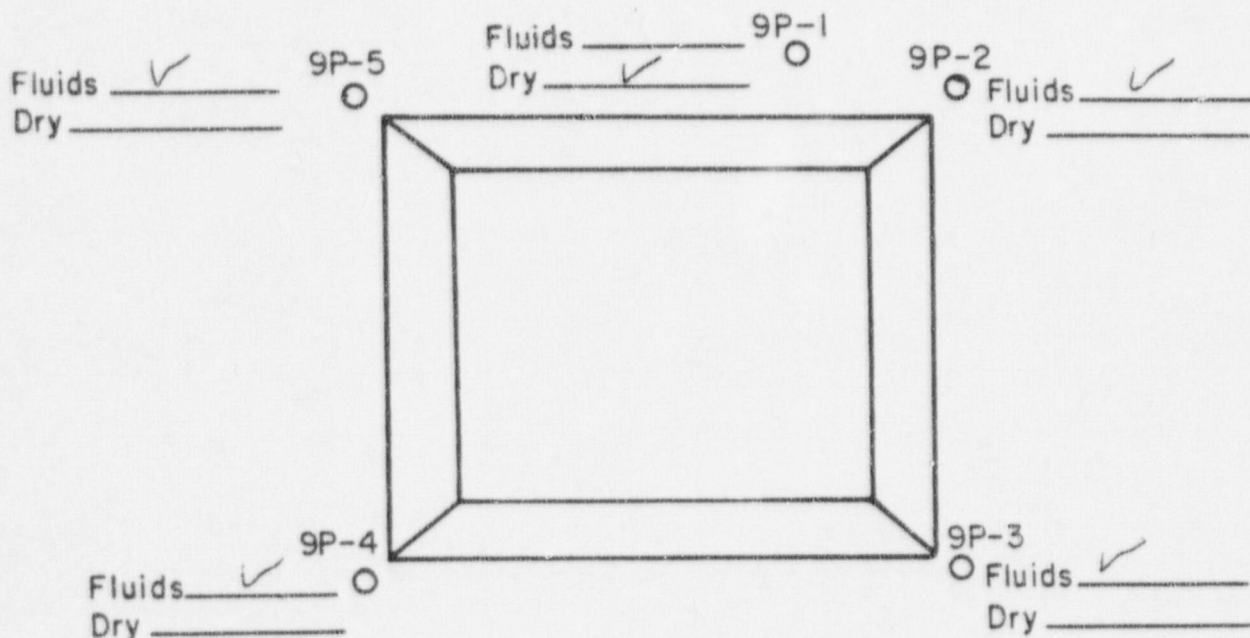
DATE 7-2-81

REPORT NO. 81-59

CROWNPOINT, SECTION 9, PILOT TEST

POND MONITOR REPORT

Pond #1



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

		URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN	9P-1	<u> </u>	<u> </u>	<u> </u>	<u> </u>
MONITOR	9P-2	<u><0.1</u>	<u>-0-</u>	<u>174</u>	<u>6,200</u>
MONITOR	9P-3	<u><0.1</u>	<u>-0-</u>	<u>202</u>	<u>20,500</u>
MONITOR	9P-4	<u><0.1</u>	<u>-0-</u>	<u>430</u>	<u>10,300</u>
MONITOR	9P-5	<u><0.1</u>	<u>-0-</u>	<u>160</u>	<u>8,100</u>

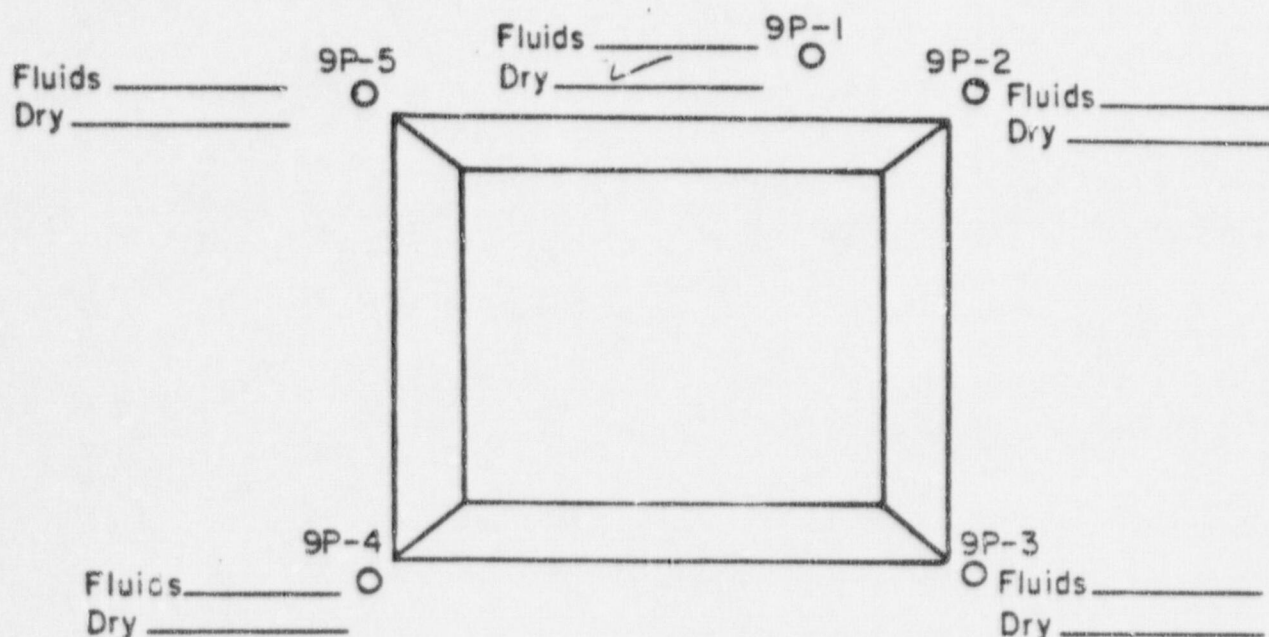
Mobil Oil Corporation

DATE 7-7-81
7-8-81
7-10-81
7-13-81
7-14-81

REPORT NO. 81-60
81-61
81-62
81-63
81-64

CROWNPOINT, SECTION 9, PILOT TEST POND MONITOR REPORT

Pond #1



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-1	_____	_____	_____	_____
MONITOR 9P-2	_____	_____	_____	_____
MONITOR 9P-3	_____	_____	_____	_____
MONITOR 9P-4	_____	_____	_____	_____
MONITOR 9P-5	_____	_____	_____	_____

Underdrain inspection is required 3 times a week. Monitor well sampling and analysis are not required on these dates.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

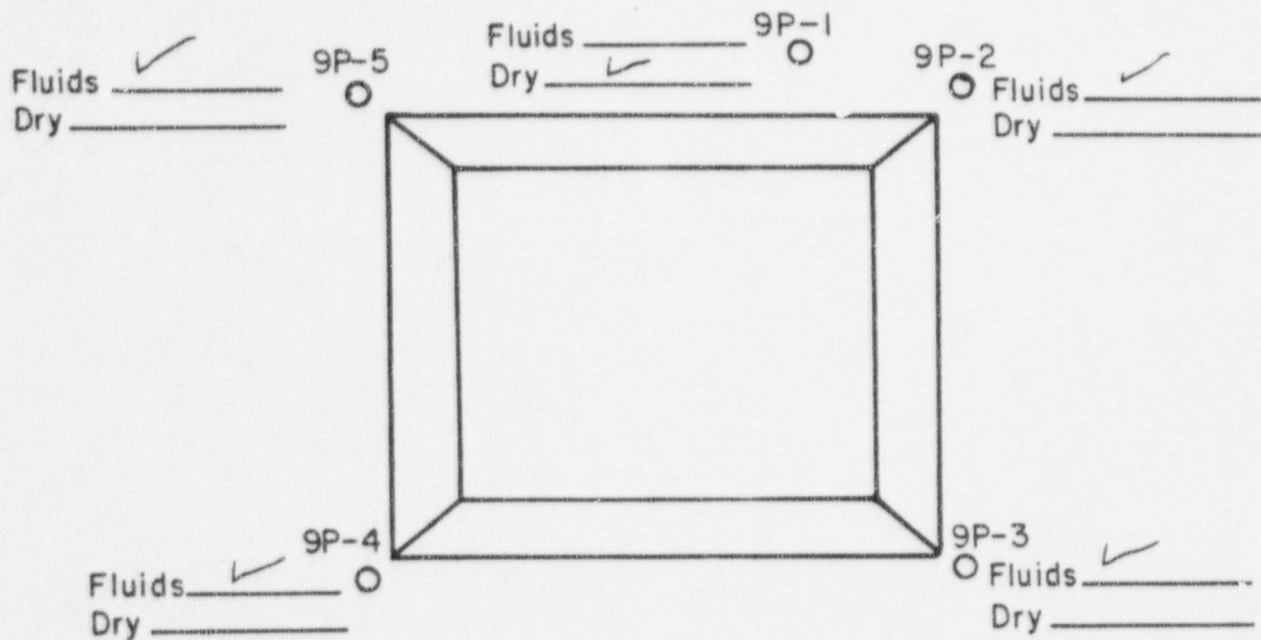
DATE 7-16-81

REPORT NO. 81-65

CROWNPOINT, SECTION 9, PILOT TEST

POND MONITOR REPORT

Pond #1



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

		URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN	9P-1				
MONITOR	9P-2	<0.1	-0-	164	6,100
MONITOR	9P-3	<0.1	-0-	234	19,000
MONITOR	9P-4	<0.1	-0-	410	9,600
MONITOR	9P-5	<0.1	-0-	160	7,500

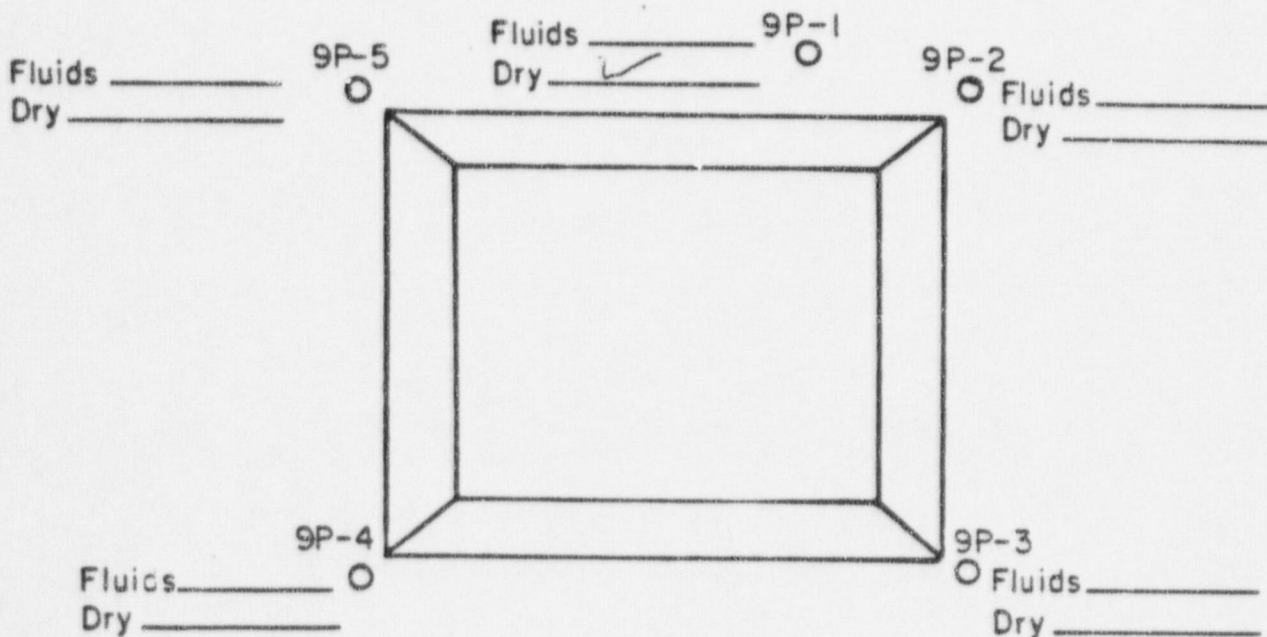
Mobil Oil Corporation

DATE 7-20-81
7-22-81
7-23-81
7-27-81
7-28-81

REPORT NO. 81-66
81-67
81-68
81-69
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CROWNPOINT, SECTION 9, PILOT TEST POND MONITOR REPORT

Pond #1



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-1	_____	_____	_____	_____
MONITOR 9P-2	_____	_____	_____	_____
MONITOR 9P-3	_____	_____	_____	_____
MONITOR 9P-4	_____	_____	_____	_____
MONITOR 9P-5	_____	_____	_____	_____

Underdrain inspection is required 3 times a week. Monitor well sampling and analysis are not required on these dates.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

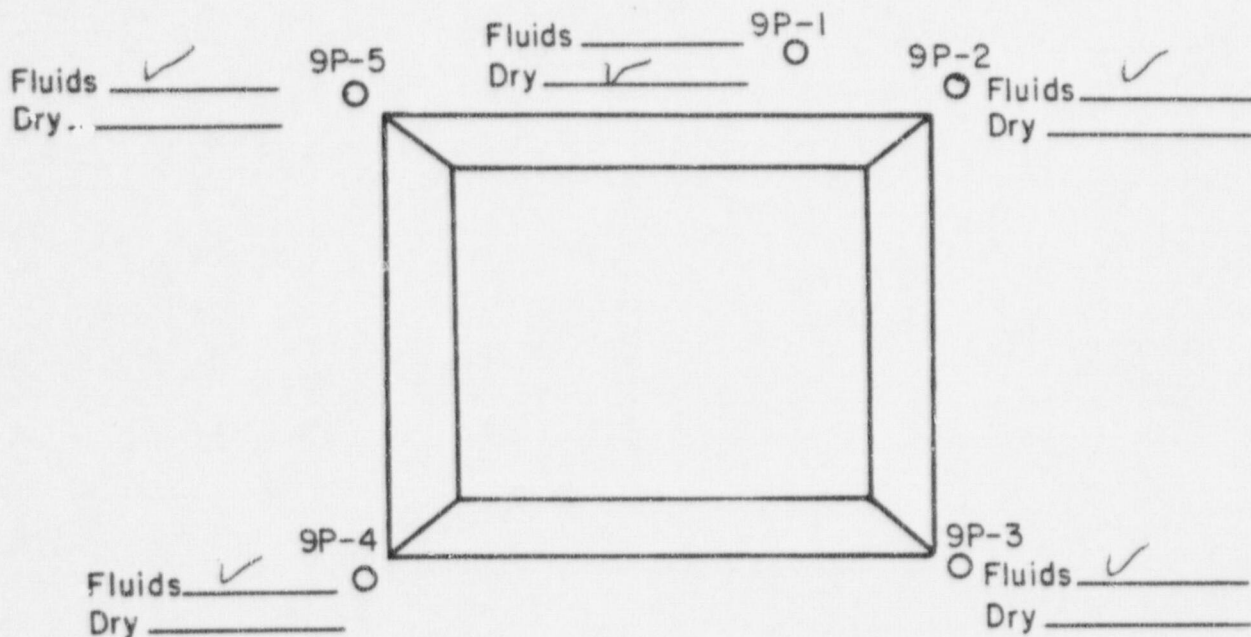
DATE 7-30-81

REPORT NO. 81-71

CROWNPOINT, SECTION 9, PILOT TEST

POND MONITOR REPORT

Pond #1



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

		URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN	9P-1	<u> </u>	<u> </u>	<u> </u>	<u> </u>
MONITOR	9P-2	<u><0.1</u>	<u>-0-</u>	<u>114</u>	<u>7,800</u>
MONITOR	9P-3	<u><0.1</u>	<u>-0-</u>	<u>258</u>	<u>19,500</u>
MONITOR	9P-4	<u><0.1</u>	<u>-0-</u>	<u>405</u>	<u>9,000</u>
MONITOR	9P-5	<u><0.1</u>	<u>-0-</u>	<u>168</u>	<u>7,900</u>

Mobil Oil Corporation

ENERGY MINERALS DIVISION

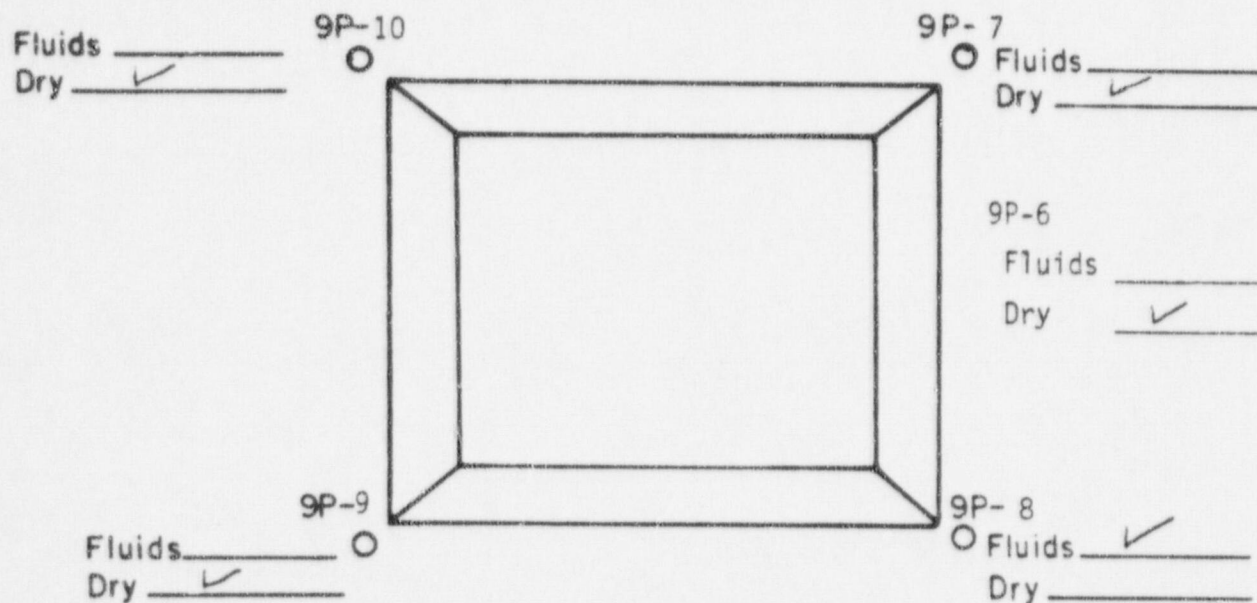
DATE 7-2-81

REPORT NO. 81-59

CROWNPOINT, SECTION 9, PILOT TEST

POND MONITOR REPORT

POND #2



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

		URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN	9P-6	<u> </u>	<u> </u>	<u> </u>	<u> </u>
MONITOR	9P-7	<u> </u>	<u> </u>	<u> </u>	<u> </u>
MONITOR	9P-8	<u><0.1</u>	<u>-0-</u>	<u>242</u>	<u>8,800</u>
MONITOR	9P-9	<u> </u>	<u> </u>	<u> </u>	<u> </u>
MONITOR	9P-10	<u> </u>	<u> </u>	<u> </u>	<u> </u>

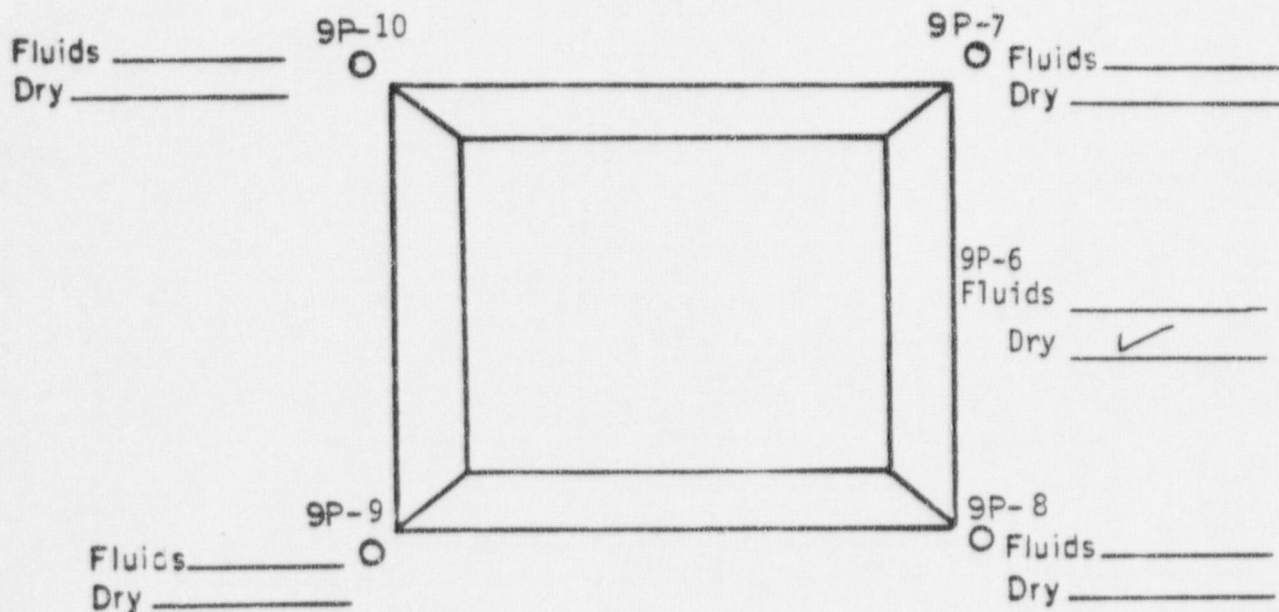
Mobil Oil Corporation

DATE 7-7-81
7-8-81
7-10-81
7-13-81
7-14-81

REPORT NO. 81-60
81-61
81-62
81-63
81-64

CROWNPOINT, SECTION 9, PILOT TEST POND MONITOR REPORT

Pond #2



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-6	_____	_____	_____	_____
MONITOR 9P-7	_____	_____	_____	_____
MONITOR 9P-8	_____	_____	_____	_____
MONITOR 9P-9	_____	_____	_____	_____
MONITOR 9P-10	_____	_____	_____	_____

Underdrain inspection is required 3 times a week. Monitor well sampling and analysis are not required on these dates.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

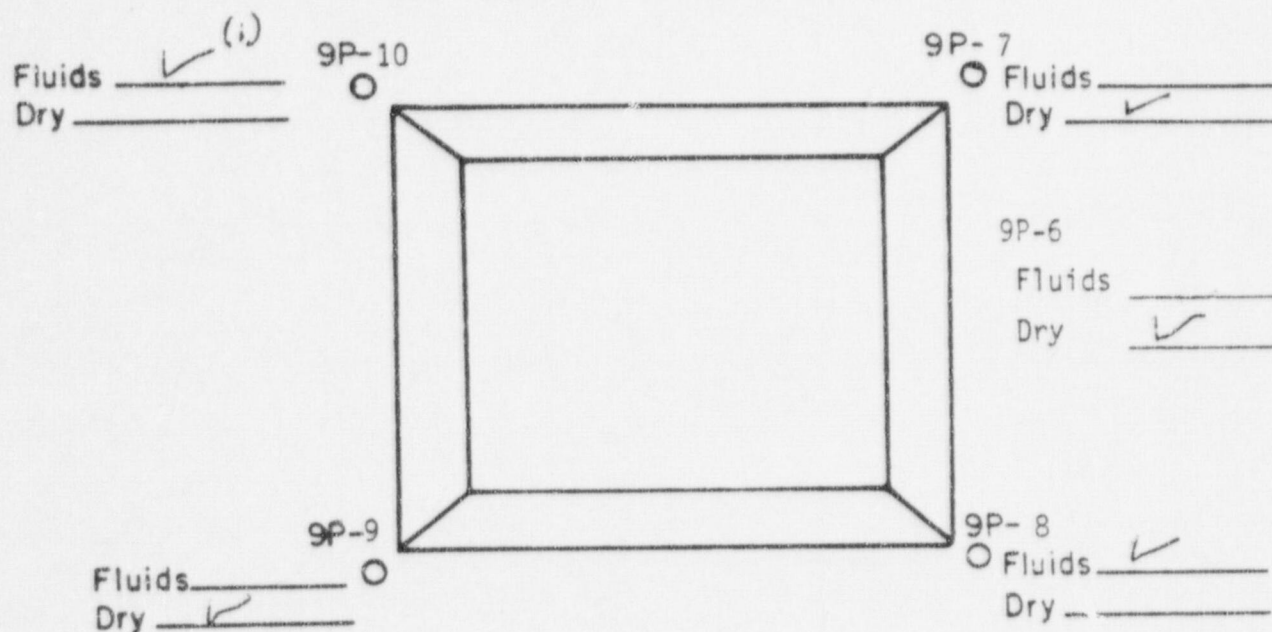
DATE 7-16-81

REPORT NO. 81-65

CROWNPOINT, SECTION 9, PILOT TEST

POND MONITOR REPORT

POND #2



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-6				
MONITOR 9P-7				
MONITOR 9P-8	<0.1	-0-	262	8,300
MONITOR 9P-9				
MONITOR 9P-10	<0.1	171	91	2,290

(1) This is the first time that pond monitor 9P-10 has contained fluids. Fluids not present on 7/24/81. Fluids accumulated due to precipitation.

Mobil Oil Corporation

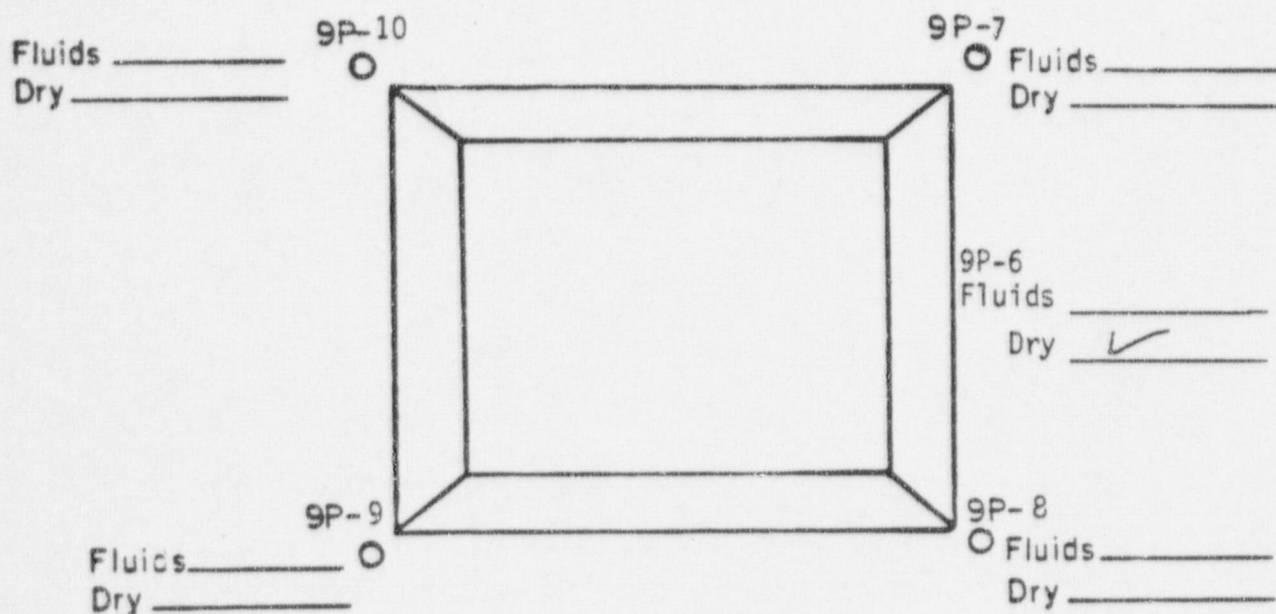
DATE 7-20-81
7-22-81
7-23-81
7-27-81
7-28-81

REPORT NO. 81-66
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81-70

CROWNPOINT, SECTION 9, PILOT TEST

POND MONITOR REPORT

Pond #2



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-6	_____	_____	_____	_____
MONITOR 9P-7	_____	_____	_____	_____
MONITOR 9P-8	_____	_____	_____	_____
MONITOR 9P-9	_____	_____	_____	_____
MONITOR 9P-10	_____	_____	_____	_____

Underdrain inspection is required 3 times a week. Monitor well sampling and analysis are not required on these dates.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

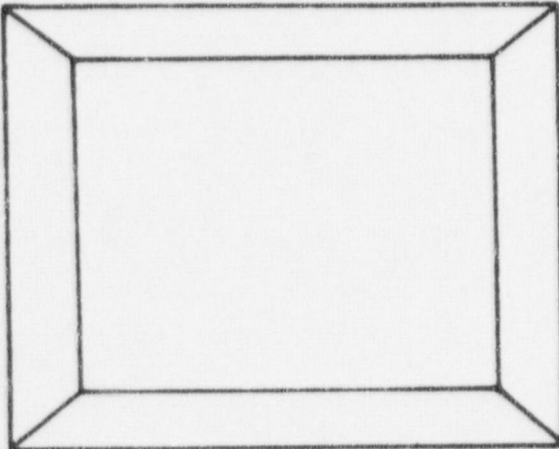
DATE 7-30-81

REPORT NO. 81-71

CROWNPOINT, SECTION 9, PILOT TEST

POND MONITOR REPORT

POND #2

Fluids <u> </u>	9P-10	9P-7	Fluids <u> </u>
Dry <u>✓</u>	○	○	Dry <u>✓</u>
			
Fluids <u> </u>	9P-9	9P-6	Fluids <u> </u>
Dry <u>✓</u>	○		Dry <u>✓</u>
Fluids <u> </u>	9P-8		Fluids <u>✓</u>
Dry <u> </u>	○		Dry <u> </u>

IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-6				
MONITOR 9P-7				
MONITOR 9P-8	<0.1	-0-	290	9,100
MONITOR 9P-9				
MONITOR 9P-10				

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-2-81

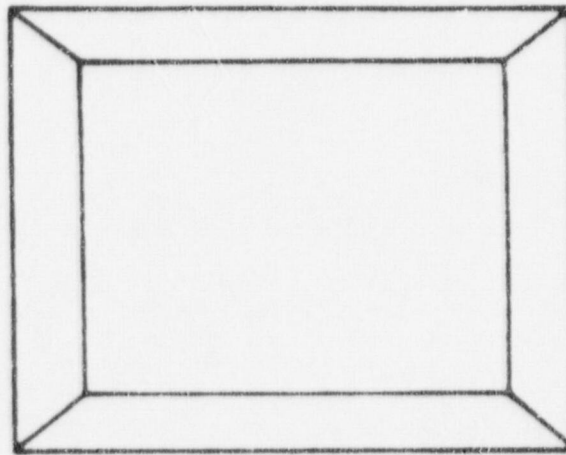
REPORT NO. 81-51

CROWNPOINT, SECTION 9, PILOT TEST

POND MONITOR REPORT

POND #3

Fluids 9P-11●
Dry ✓



9P-12
● Fluids
Dry ✓

IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-11	<u> </u>	<u> </u>	<u> </u>	<u> </u>
MONITOR 9P-12	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Mobil Oil Corporation

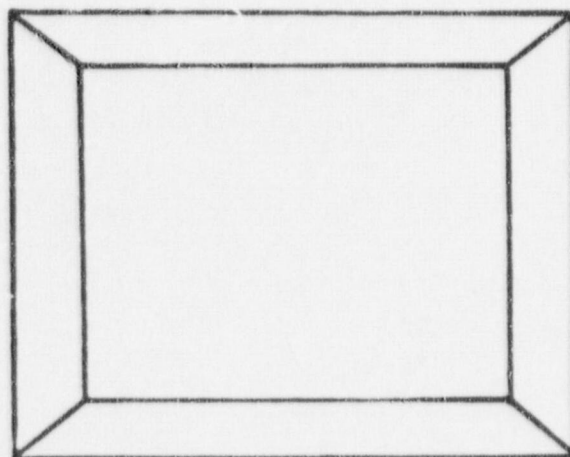
DATE 7-7-81
7-8-81
7-10-81
7-13-81
7-14-81

REPORT NO. 81-52
81-53
81-54
81-55
81-56

CROWNPOINT, SECTION 9, PILOT TEST POND MONITOR REPORT

Pond #3

9P-12
○ Fluids _____
Dry _____



9P-11 ○

Fluids _____
Dry ✓

IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-11	_____	_____	_____	_____
MONITOR 9P-12	_____	_____	_____	_____

Underdrain inspection is required 3 times a week. Monitor well sampling and analysis are not required on these dates.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-16-81

REPORT NO. 81-57

CROWNPOINT, SECTION 9, PILOT TEST

POND MONITOR REPORT

POND #3

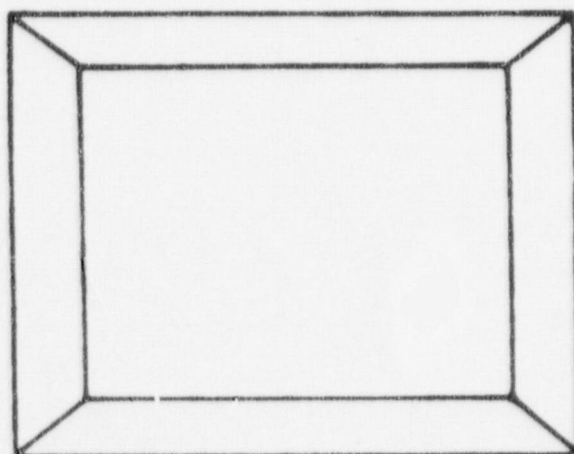
9P-12

● Fluids _____

Dry ✓

Fluids _____ 9P-11

Dry ✓



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-11	_____	_____	_____	_____
MONITOR 9P-12	_____	_____	_____	_____

Mobil Oil Corporation

DATE 7-20-81
7-22-81
7-23-81
7-27-81
7-28-81

REPORT NO. 81-58
81-59
81-60
81-61
81-62

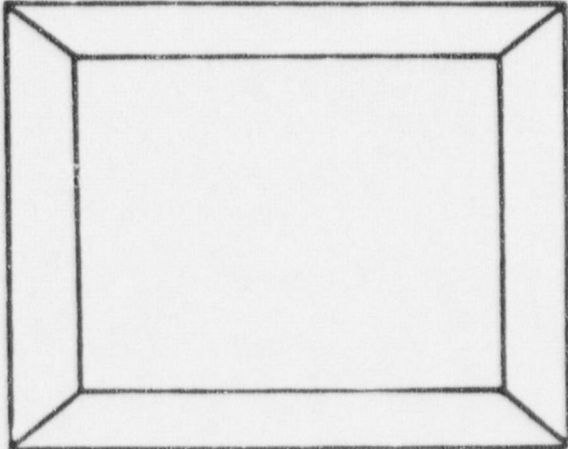
CROWNPOINT, SECTION 9, PILOT TEST POND MONITOR REPORT

Pond #3

Fluids
Dry ✓

9P-11 ○

9P-12
○ Fluids
Dry



IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-11	<u> </u>	<u> </u>	<u> </u>	<u> </u>
MONITOR 9P-12	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Underdrain inspection is required 3 times a week. Monitor well sampling and analysis are not required on these dates.

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 7-30-81

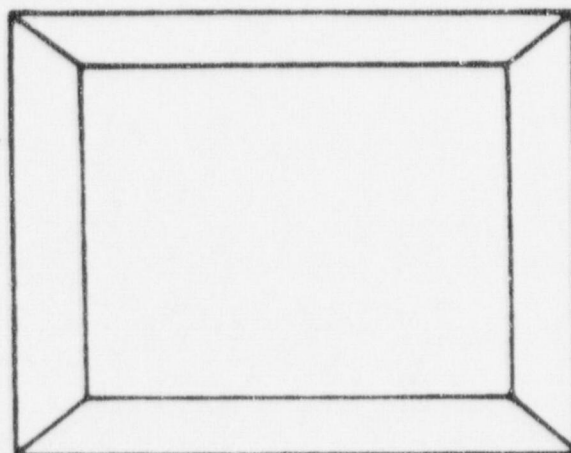
REPORT NO. 81-63

CROWNPOINT, SECTION 9, PILOT TEST

POND MONITOR REPORT

POND #3

Fluids 9P-11●
Dry ✓



9P-12
● Fluids
Dry ✓

IF FLUIDS ARE PRESENT ANALYZE FOR URANIUM, BICARBONATE, SODIUM & CONDUCTIVITY.

RESULTS OF ANALYSIS

	URANIUM mg/l	BICARBONATE	SODIUM	CONDUCTIVITY
UNDERDRAIN 9P-11	<u> </u>	<u> </u>	<u> </u>	<u> </u>
MONITOR 9P-12	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Mobil Oil Corporation

ENERGY MINERALS DIVISION

SAMPLE PERIOD July, 1981

REPORT NO. 81-7

CROWNPOINT, SECTION 9, PILOT TEST

WEEKLY DATA REPORT

WELL NO.	DATE	DATE	DATE	DATE	DATE
	7-1-81	7-8-81	7-15-81	7-22-81	7-29-81
9U-202	W.L. <u>248.05</u> ft.	<u>247.85</u> ft.	<u>245.04</u> ft.	<u>249.26</u> ft.	<u>250.67</u> ft.
9U-207	W.L. <u>45.08</u> ft.	<u>44.61</u> ft.	<u>45.32</u> ft.	<u>45.36</u> ft.	<u>45.93</u> ft.
9U-221	W.L. <u>236.56</u> ft.	<u>235.36</u> ft.	<u>236.22</u> ft.	<u>236.92</u> ft.	<u>233.92</u> ft.
9U-222	W.L. <u>246.19</u> ft.	<u>266.20</u> ft.	<u>262.33</u> ft.	<u>267.27</u> ft.	<u>272.17</u> ft.
9U-223	W.L. <u>255.50</u> ft.	<u>255.26</u> ft.	<u>253.40</u> ft.	<u>256.60</u> ft.	<u>260.49</u> ft.
9U-224	W.L. <u>267.22</u> ft.	<u>266.94</u> ft.	<u>267.04</u> ft.	<u>268.22</u> ft.	<u>271.85</u> ft.
9U-225	W.L. <u>249.20</u> ft.	<u>249.14</u> ft.	<u>249.13</u> ft.	<u>250.54</u> ft.	<u>254.19</u> ft.
9U-276A	W.L. <u>248.59</u> ft.	<u>248.86</u> ft.	<u>249.47</u> ft.	<u>249.85</u> ft.	<u>250.17</u> ft.
9U-276B	W.L. <u>249.46</u> ft.	<u>249.85</u> ft.	<u>250.37</u> ft.	<u>250.75</u> ft.	<u>251.70</u> ft.
9U-277	W.L. <u>257.40</u> ft.	<u>257.21</u> ft.	<u>250.18</u> ft.	<u>259.40</u> ft.	<u>257.56</u> ft.
9U-278	W.L. <u>262.71</u> ft.	<u>257.18</u> ft.	<u>248.13</u> ft.	<u>259.21</u> ft.	<u>266.13</u> ft.
9U-279	W.L. <u>252.52</u> ft.	<u>257.42</u> ft.	<u>250.20</u> ft.	<u>259.24</u> ft.	<u>265.35</u> ft.
	pH <u>8.9</u>	<u>8.6</u>	<u>8.8</u>	<u>9.0</u>	<u>9.1</u>
	E.C. <u>460</u> umhos	<u>462</u> umhos	<u>490</u> umhos	<u>490</u> umhos	<u>480</u> umhos
9U-280	W.L. <u>238.07</u> ft.	<u>242.24</u> ft.	<u>241.48</u> ft.	<u>243.56</u> ft.	<u>244.07</u> ft.

COMMENTS:

GALLONS PRODUCED: 2,153,082

GALLONS INJECTED: 1,767,501

GALLONS (CONSUMPTIVE): 385,581

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 8-5-81

REPORT NO. 81-27

CROWNPOINT, SECTION 9, PILOT TEST

WEEKLY AVERAGE PROCESS STREAM DATA

TIME PERIOD June and July 1981, week of the 30th to 6th (6-30-81 to 7-6-81)

<u>PARAMETERS</u>	<u>PREGNANT LIXIVANT</u>	<u>BARREN LIXIVANT</u>	<u>BLEED STREAM</u>
Bicarbonate mg/l	<u>407.2</u>	<u>13.7</u>	<u>146.7</u>
Chloride mg/l	<u>256.4</u>	<u>128.9</u>	<u>5277.0</u>
Iron mg/l	<u>0.93</u>	<u>0.06</u>	<u>0.46</u>
Molybdenum mg/l	<u>44.1</u>	<u>0.29</u>	<u>50.6</u>
Peroxide mg/l	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
pH	<u>7.2</u>	<u>6.8</u>	<u>6.3</u>
Sodium mg/l	<u>360.0</u>	<u>71.1</u>	<u>2480.0</u>
Vanadium mg/l	<u><0.6</u>	<u><0.6</u>	<u>0.6</u>

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 8-5-81

REPORT NO. 81-28

CROWNPOINT, SECTION 9, PILOT TEST

WEEKLY AVERAGE PROCESS STREAM DATA

TIME PERIOD July 1981, week of the 7th to 13th (7-7-81 to 7-13-81)

<u>PARAMETERS</u>	<u>PREGNANT LIXIVANT</u>	<u>BARREN LIXIVANT</u>	<u>BLEED STREAM</u>
Bicarbonate mg/l	<u>368.9</u>	<u>8.7</u>	<u>267.1</u>
Chloride mg/l	<u>253.3</u>	<u>114.6</u>	<u>4307.7</u>
Iron mg/l	<u>1.81</u>	<u>0.04</u>	<u>0.27</u>
Molybdenum mg/l	<u>40.7</u>	<u>0.66</u>	<u>624</u>
Peroxide mg/l	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
pH	<u>7.3</u>	<u>10.4</u>	<u>6.8</u>
Sodium mg/l	<u>343.6</u>	<u>71.9</u>	<u>2382.9</u>
Vanadium mg/l	<u><0.6</u>	<u><0.6</u>	<u>0.6</u>

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 8-5-81

REPORT NO. 81-29

CROWNPOINT, SECTION 9, PILOT TEST

WEEKLY AVERAGE PROCESS STREAM DATA

TIME PERIOD July 1981, week of the 14th to 20th (7-14-81 to 7-20-81)

<u>PARAMETERS</u>	<u>PREGNANT LIXIVANT</u>	<u>BARREN LIXIVANT</u>	<u>BLEED STREAM</u>
Bicarbonate mg/l	<u>252.0</u>	<u>-0-</u>	<u>328.0</u>
Chloride mg/l	<u>256.1</u>	<u>132.7</u>	<u>4019.9</u>
Iron mg/l	<u>0.75</u>	<u><0.04</u>	<u>0.30</u>
Molybdenum mg/l	<u>36.2</u>	<u>0.44</u>	<u>58.2</u>
Peroxide mg/l	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
pH	<u>8.0</u>	<u>11.5</u>	<u>6.9</u>
Sodium mg/l	<u>285.0</u>	<u>69.7</u>	<u>2417.1</u>
Vanadium mg/l	<u><0.6</u>	<u><0.6</u>	<u><0.6</u>

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 8-5-81

REPORT NO 81-30

CROWNPOINT, SECTION 9, PILOT TEST

WEEKLY AVERAGE PROCESS STREAM DATA

TIME PERIOD July 1981, Week of the 21st to 27th (7-21-81 to 7-27-81)

<u>PARAMETERS</u>	<u>PREGNANT LIXIVANT</u>	<u>BARREN LIXIVANT</u>	<u>BLEED STREAM</u>
Bicarbonate mg/l	<u>388.1</u>	<u>-0-</u>	<u>310.3</u>
Chloride mg/l	<u>231.9</u>	<u>122.9</u>	<u>4083.1</u>
Iron mg/l	<u>0.41</u>	<u><0.04</u>	<u>0.36</u>
Molybdenum mg/l	<u>33.9</u>	<u>0.37</u>	<u>40.7</u>
Peroxide mg/l	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
pH	<u>7.9</u>	<u>11.6</u>	<u>7.1</u>
Sodium mg/l	<u>280.0</u>	<u>68.7</u>	<u>2577.14</u>
Vanadium mg/l	<u><0.6</u>	<u><0.6</u>	<u><0.6</u>

Mobil Oil Corporation

ENERGY MINERALS DIVISION

DATE 5-13-81

REPORT NO. 10

CROWNPOINT, SECTION 9, PILOT TEST

SUPPLEMENTAL RADIOLOGICAL DATA REPORT

WELL NO.	LEAD-210, DISSOLVED (pCi/l)	THORIUM-230, DISSOLVED (pCi/l)	RADIUM-226, DISSOLVED (pCi/l)	RADIUM-228, DISSOLVED (pCi/l)
9U-202	<u> </u>	<u> </u>	<u> </u>	<u> </u>
9U-207	<u>0.4 ± 1.8</u>	<u>-0.5 ± 0.3</u>	<u>1.2 ± 1.1</u>	<u>0.5 ± 1.3</u>
9U-221	<u> </u>	<u> </u>	<u> </u>	<u> </u>
9U-222	<u> </u>	<u> </u>	<u> </u>	<u> </u>
9U-223	<u> </u>	<u> </u>	<u> </u>	<u> </u>
9U-224	<u>1.9 ± 2.3</u>	<u>0.0 ± 0.4</u>	<u>0.5 ± 0.5</u>	<u>2.0 ± 1.6</u>
9U-225	<u> </u>	<u> </u>	<u> </u>	<u> </u>
9U-276B	<u> </u>	<u> </u>	<u> </u>	<u> </u>
9U-279	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Comment				