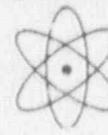


FERRET EXPLORATION COMPANY OF NEBRASKA, INC.

40-8943

P.O. Box 169  
Crawford, Nebraska 69339

Office (308) 665-2215  
FAX (308) 665-2341



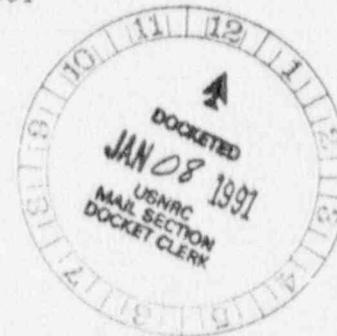
04008943230E

RETURN ORIGINAL TO PDR, HQ.

January 4, 1991

Mr. Ramon Hall  
U.S. Nuclear Regulatory Commission  
Uranium Recovery Field Office  
P.O. Box 25325  
Denver, Colorado 80225

RE: Docket No. 40-8943  
License No. SUA-1534



Dear Mr. Hall:

Ferret Exploration Company of Nebraska (FEN) is currently planning start-up of its Crow Butte facility during March, 1991. License Condition No. 30 requires FEN to submit particulate and radon sampling locations as well as designated eating areas at least two (2) months prior to beginning uranium recovery operations. License Condition No. 37 requires FEN to propose a surface contamination program two (2) months prior to lixiviation injection. License Condition No. 43 requires FEN submit baseline water quality data for all production units from wells in the mining zone, the mining zone perimeter and the upper aquifer.

Enclosed with this letter please find the following:

- 1) The air particulate and radon sampling locations and designated eating areas. The sampling frequency is also included.
- 2) The Proposed Surface Contamination Program.
- 3) Baseline water quality data for Mine Unit One, the accompanying perimeter monitor wells, and the upper aquifer monitor wells. Seven newly constructed wells and five older wells previously used in pilot plant operations make up the Mine Unit One baseline wells. All the perimeter monitor wells are newly constructed. Two of the upper aquifer monitor wells are newly constructed, the third, SM1-1 (previously PM-6), was used as a upper aquifer monitor for pilot plant operations. A location map of all wells in Mine Unit One is included.

If you have any questions regarding these submittals, please do not hesitate to contact me.

RIV DRMA  
RECEIVED

91 JAN -8 10 02

Sincerely,

*Ralph Knode*

Ralph Knode  
Vice President

*RF02*

91-0173

DESIGNATED ORIGINAL

9101290288 910104  
PDR ADOCK 04008943  
C PDR

Certified By Mary C. Hood

280108

PROPOSED PARTICULATE AND RADON SAMPLING LOCATIONS

License Condition #30

AIRBORNE PARTICULATES:

| Location:                          | Frequency: |
|------------------------------------|------------|
| Upper Deck-Precip Tank Area        | Monthly    |
| Upper Deck-Belt Filter Feed Room   | Monthly    |
| Main Level-Yellowcake Storage Area | Monthly    |
| Dryer Room-During Dryer Operations | Weekly     |

RADON DAUGHTERS:

| Location:                                   | Frequency: |
|---|------------|
| Between Resin Transfer & IX Columns         | Monthly    |
| Between Barren Lix Tanks & IX Columns       | Monthly    |
| Between Column Drain Tanks & IX Columns     | Monthly    |
| Between 2 Sets of IX Column Trains          | Monthly    |
| Between Precip Tanks & IX Columns           | Monthly    |
| Between Precip Tanks & Eluent Make up Tanks | Monthly    |
| Between Precip Tanks & Raw Water Tank       | Monthly    |
| Motor Control Room/Operator Office          | Monthly    |
| R.O. Building-near R.O. unit                | Monthly    |
| Lab   | Monthly    |
| Lunchroom                                   | Monthly    |
| Dryer Room-During Dryer Operations          | Weekly     |

DESIGNATED EATING AREAS:

Lunchroom--Office Area



## PROPOSED SURFACE CONTAMINATION PROGRAM

### License Condition #37

Contamination surveys will be conducted in both the restricted and unrestricted areas at the Crow Butte Plant. The surface contamination program will consist of instrument surveys for removable and fixed alpha and visual inspections for obvious signs of contamination. Frequency for both fixed and removable alpha surveys will be weekly. Visual inspections will be performed on a daily basis.

The limits for surface contamination in the unrestricted areas are those shown in Table 5.7-4 of the Permit Application for the Commercial Source Materials License and are adopted from the USNRC Reg. Guide 8.30, Health Physics Surveys in Uranium Mills. If contamination above the limits listed in Table 5.7-4 is found in the unrestricted areas, decontamination procedures will begin as soon as feasible. The cause of the contamination will be investigated and procedures to prevent future occurrences will be implemented, as necessary.

In areas such as the lunchroom, action levels of 25% of the values listed in Table 5.7-4 will be used. If these action levels are exceeded the area will be closed until it can be properly cleaned. If the action levels are exceeded an investigation will be conducted in an attempt to determine the cause.

In the restricted area any observable yellowcake contamination or instrument survey results greater than  $10^{-3}$  uCi/cm<sup>2</sup> will result in prompt cleanup actions. Eating, drinking, and smoking will be prohibited in the restricted area. All surveys will be documented and the records retained at the plant.

All equipment and materials to be released to an unrestricted area will also meet the limits shown in Table 5.7-4. Any yellowcake shipments or equipment or materials released to a restricted area will meet all applicable NRC and DOT limits.

TABLE 5.7-4

SURFACE CONTAMINATION LIMITS  
FOR NATURAL URANIUM

|                      |   |
|----------------------|---|
| Total <sup>(a)</sup> | 5000 dpm/100 cm <sup>2</sup> average<br>15000 dpm/100 cm <sup>2</sup> maximum |
| Removable            | 1000 dpm/100 cm <sup>2</sup>  |

(a) The average value may be averaged over an area not to exceed 1 m<sup>2</sup>.  
The maximum is over an area not to exceed 100 cm<sup>2</sup>.

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 1 of 6

Sample Number: ~~PH-6~~ 3MI-1  
Sample Type: MONITOR WELL  
Formation: BRULE

Surface Elevation: 3869.5 ft. MSL  
Well Depth: 217 ft.  
Distance from Wellfield: 0 ft.

SAMPLE RESULTS

| Sample date | 12-82 | 01-83 | 04-83 | 04-83 | 07-83 | 10-83 |
|-------------|-------|-------|-------|-------|-------|-------|
| Laboratory  | CORE  | NRL   | NRL   | CORE  | CORE  | CORE  |

All values in mg/l unless noted

|                       |       |       |        |       |       |       |
|-----------------------|-------|-------|--------|-------|-------|-------|
| Calcium               | 4.3   | 3.2   | 2.8    | 2.5   | 2.59  | 2.8   |
| Magnesium             | 0.23  | 0.17  | 0.13   | 0.14  | 0.20  | 0.21  |
| Sodium                | 100*  | 98    | 97     | 97    | 97    | 100*  |
| Potassium             | 9.5*  | 9     | 8.7    | 8.2   | 8.3   | 8.6   |
| Carbonate             | 11.90 | 14    | 19     | <1    | <1    | 12    |
| Bicarbonate           | 205   | 190   | 180    | 202   | 201   | 197   |
| Sulfate               | 40*   | 38    | 33     | 38    | 44*   | 40*   |
| Chloride              | 4.6   | 8     | 12*    | 12.3* | 12    | 8.1   |
| Ammonia-N             | <0.05 | <0.05 | <0.05  | <0.05 | <0.05 | <0.05 |
| Nitrite-N             | 0.01  | 0.22* | 0.01   | 0.02* | 0.01  | 0.02* |
| Nitrate-N             | 1.5   | 0.77  | <0.01* | 0.9   | 1.4   | 1.1   |
| Fluoride              | 0.5*  | 0.5   | 0.4    | 0.6*  | 0.4   | 0.5   |
| Silica (as SiO2)      | 67*   | 63    | 63     | 63    | 66    | 59    |
| TDS-180°C             | 306   | 330   | 310    | 342   | 316   | 319   |
| Conductivity (umhos)  | 430   | 431   | 456    | 425   | 460   | 480*  |
| Alkalinity (as CaCO3) | 195*  | 180   | 180    | 176   | 175   | 190   |
| pH (standard units)   | 8.52  | 8.7*  | 8.9*   | 8.47  | 8.23  | 8.59  |
| Ion Balance           | N/A   | 1.01  | 1.03   | N/A   | 1.00  | 1.00  |
| TDS Balance           | N/A   | 1.30  | 1.36   | N/A   | 0.95  | 0.96  |
| Cond. Balance         | N/A   | 1.05  | 1.01   | N/A   | 1.03  | 0.99  |

All values in ug/l unless noted

|                    |         |          |          |         |         |         |
|--------------------|---------|----------|----------|---------|---------|---------|
| Aluminum           | N/A     | <100     | <100     | <100    | <100    | 100     |
| Arsenic            | 10      | 8        | 8        | <10     | <5      | 7       |
| Barium             | <100*   | <100*    | <100     | <100    | <100    | <100    |
| Boron              | 320*    | 800*     | <500*    | 140     | 110     | 120     |
| Cadmium            | <10*    | <1       | <1       | <10*    | <1      | <1      |
| Chromium           | <10*    | 5        | 2*       | N/A     | <5      | 14*     |
| Cobalt             | N/A     | <1       | <1       | <50*    | <5      | <5      |
| Copper             | <10     | 4*       | 4*       | <10     | 20*     | <10     |
| Iron               | 90*     | <50      | <50      | <50     | <30     | 110*    |
| Lead               | <10*    | 5        | <5       | <10*    | <5      | 6*      |
| Manganese          | <10*    | <100*    | <100*    | <10*    | <5      | <5      |
| Mercury            | <0.3*   | 0.2      | <0.1*    | <0.3*   | <0.2    | <0.2    |
| Molybdenum         | <100*   | 3*       | 2*       | <100*   | <10     | <10     |
| Nickel             | <50*    | <2*      | <2*      | <50*    | <10     | <10     |
| Selenium           | <10*    | <2       | 2        | <10*    | 2       | 1       |
| Vanadium           | N/A     | 7*       | 7*       | <100*   | <10     | <10     |
| Zinc               | 700*    | 120      | 200      | 220     | 60      | 500*    |
| Uranium (as U)     | 12*     | 11*      | 7        | 4       | <1      | <1      |
| Radium-226 (pCi/l) | 1.1±0.3 | 9.1*±0.2 | 6.2*±0.3 | 1.6±0.3 | 1.1±0.2 | 0.3±0.1 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 2 of 6

Sample Number: ~~FM-6~~ SM1-1  
Sample Type: MONITOR WELL  
Formation: BRULE

Surface Elevation: 3869.5 ft. MSL  
Well Depth: 217 ft.  
Distance from Wellfield: 0 ft.

SAMPLE RESULTS

| Sample date                     | 01-84 | 04-84 | 04-84  | 12-85  | 12-82 | 07-86 |
|---------------------------------|-------|-------|--------|--------|-------|-------|
| Laboratory                      | CORE  | CORE  | TETON  | ELI    | JORDN | ELI   |
| All values in mg/l unless noted |       |       |        |        |       |       |
| Calcium                         | 3.3   | 3     | 2.3    | 4.5    | 4.4   | 4.3   |
| Magnesium                       | 0.15  | 1*    | 0.2    | 0.21   | 0.05* | 0.2   |
| Sodium                          | 95    | 100   | 97     | 90.7   | 10    | 93.1  |
| Potassium                       | 8.7   | 9     | 6.7    | 8.8    | 10*   | 8.0   |
| Carbonate                       | 9     | 24    | 7.4    | 0      | 11    | 2.9   |
| Bicarbonate                     | 200   | 171   | 201.8  | 204.2  | 200   | 210   |
| Sulfate                         | 34    | 38    | 39.3   | 37.6   | 38    | 33.9  |
| Chloride                        | 6.9   | 12    | 4.8    | 5.7    | 9     | 3.9   |
| Ammonia-N                       | 0.05* | <0.1* | <0.05  | <0.05  | 0.13* | <0.05 |
| Nitrite-N                       | <0.01 | <0.01 | <0.001 | <0.001 | <0.01 | <0.01 |
| Nitrate-N                       | 1.1   | 1.3   | 1.34   | 1.40   | 0.46* | 1.61  |
| Fluoride                        | 0.5   | 0.39  | 0.50   | 0.46   | 0.44  | 0.49  |
| Silica(as SiO2)                 | 65    | 64.3  | 51.2*  | 64.5   | 69*   | 65.3  |
| TDS-180°C                       | 330   | 276*  | 317    | 326    | 363*  | 334   |
| Conductivity (µmhos)            | 460   | 438   | 430    | 428    | 466   | 444   |
| Alkalinity(as CaCO3)            | 193*  | 180   | 177.8  | 167.4  | 182   | 177   |
| pH (standard units)             | 8.61  | 8.6   | 8.60   | 8.20   | 8.78* | 8.47  |
| Ion Balance                     | 0.99  | 1.00  | 1.00   | 1.00   | NA    | 1.00  |
| TDS Balance                     | 1.00  | 1.02  | 0.98   | 1.02   | NA    | 1.05  |
| Cond. Balance                   | 0.98  | 0.95  | 0.99   | 1.02   | NA    | 1.00  |

All values in µg/l unless noted

|                   |         |         |           |          |         |         |
|-------------------|---------|---------|-----------|----------|---------|---------|
| Aluminum          |         | 110*    | <100      | NA       | NA      | <100    |
| Arsenic           |         | 11      | 7         | 9        | 9       | 10      |
| Barium            |         | <100    | <100      | <100     | 10*     | <100    |
| Boron             |         | 140     | 130       | 110      | <10*    | <100    |
| Cadmium           |         | 2       | 4*        | <1       | <0.1    | <1      |
| Chromium          |         | <5      | 12*       | <5       | 3*      | <5      |
| Cobalt            |         | <5      | <5        | NA       | NA      | NA      |
| Copper            |         | 24*     | <10       | <10      | 6*      | <10     |
| Iron              |         | 100*    | 70*       | 90*      | <10*    | <30     |
| Lead              |         | 5       | <5        | <5       | <1*     | <5      |
| Manganese         |         | <5      | 6*        | <5       | <1*     | <5      |
| Mercury           |         | 0.3*    | <0.02*    | <0.2     | <0.1*   | <0.2    |
| Molybdenum        |         | <10     | <10       | <10      | <10     | <10     |
| Nickel            |         | <10     | <10       | <10      | <10     | <10     |
| Selenium          |         | <1      | <1        | <1       | <1      | <1      |
| Vanadium          |         | 8*      | <10       | <10      | <10     | <10     |
| Zinc              |         | 290     | 170       | 160      | 270     | 150     |
| Uranium (as U)    | 8       | 7       | 5         | 10       | 7       | 7       |
| Radium-226(pCi/l) | 0.8±0.2 | 1.0±0.4 | 0.71±1.34 | 5.4*±0.8 | 1.0±0.1 | 0.8±0.4 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 3 of 6

Sample Number: ~~FM-6~~ SMI-1  
Sample Type: MONITOR WELL  
Formation: BRULE

Surface Elevation: 3869.5 ft. MSL  
Well Depth: 217 ft.  
Distance from Wellfield: 0 ft.

SAMPLE RESULTS

| Sample date                     | 10-86 | 01-87 | 04-87 | 07-87 | 10-87 | 01-88 |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| Laboratory                      | ELI   | ELI   | ELI   | ELI   | ELI   | ELI   |
| All values in mg/l unless noted |       |       |       |       |       |       |
| Calcium                         | 4.9*  | 4.6   | 4.5   | 4.7   | 4.6   | 4.7   |
| Magnesium                       | 0.26* | 0.19  | 0.2   | 0.20  | 0.19  | 0.2   |
| Sodium                          | 95.4  | 91.5  | 92.4  | 93.9  | 102*  | 97.0  |
| Potassium                       | 7.5   | 8.1   | 8.8   | 9.3   | 9.5   | 9.5   |
| Carbonate                       | 8.6   | 3.8   | 2.9   | 0     | 2.7   | 2.9   |
| Bicarbonate                     | 195   | 203   | 203   | 222*  | 222   | 219   |
| Sulfate                         | 36.5  | 33.9  | 35.4  | 34.4  | 36.2  | 34.8  |
| Chloride                        | 4.1   | 1.9   | 3.3   | 3.2   | 2.9   | 3.6   |
| Ammonia-N                       | <0.05 | <0.05 | 0.05  | <0.05 | <0.05 | <0.05 |
| Nitrite-N                       | <0.01 | 0.003 | 0.008 | 0.002 | 0.005 | 0.006 |
| Nitrate-N                       | 1.61  | 1.76  | 1.67  | 1.73  | 1.67  | 1.90* |
| Fluoride                        | 0.44  | 0.47  | 0.42  | 0.32  | 0.50  | 0.42  |
| Silica(as SiO2)                 | 65.1  | 59.5  | 66.3* | 64.2  | 59.9  | 62.1  |
| TDS-180°C                       | 300   | 326   | 328   | 362*  | 350*  | 324   |
| Conductivity (umhos)            | 438   | 449   | 444   | 462   | 447   | 461   |
| Alkalinity(as CaCO3)            | 174   | 166   | 171   | 182   | 186   | 185   |
| pH (standard units)             | 8.50  | 8.48  | 8.49  | 8.26  | 8.42  | 8.45  |
| Ion Balance                     | 0.98  | 0.98  | 0.98  | 1.00  | 1.02  | 0.99  |
| TDS Balance                     | 0.92  | 1.04  | 1.02  | 1.10  | 1.01  | 0.97  |
| Cond. Balance                   | 0.96  | 1.02  | 1.01  | 1.02  | 0.96  | 0.97  |

All values in ug/l unless noted

|                   |         |       |         |         |         |       |
|-------------------|---------|-------|---------|---------|---------|-------|
| Aluminum          | <100    | <100  | <100    | <100    | <100    | NA    |
| Arsenic           | 13*     | 9     | 4       | 10      | 9       | 9     |
| Barium            | <100    | <100  | <100    | <100    | <100    | <100  |
| Boron             | <100    | <100  | 90      | 80      | 70      | 70    |
| Cadmium           | <1      | 1     | <1      | <1      | <1      | <1    |
| Chromium          | <5      | <5    | <5      | <5      | <5      | <5    |
| Cobalt            | NA      | NA    | NA      | NA      | NA      | NA    |
| Copper            | <10     | <10   | <10     | <10     | <10     | <10   |
| Iron              | <30     | 40    | <30     | <30     | <30     | <30   |
| Lead              | <5      | <5    | <5      | <5      | 8*      | 7*    |
| Manganese         | <5      | <5    | <5      | <5      | <5      | <5    |
| Mercury           | <0.2    | <0.2  | <0.2    | <0.2    | <0.2    | <0.2  |
| Molybdenum        | <10     | <5*   | <10     | <10     | <10     | <10   |
| Nickel            | <10     | <10   | <10     | <10     | <10     | <10   |
| Selenium          | <1      | <1    | <1      | 3       | 3       | 4     |
| Vanadium          | <10     | <10   | <10     | <10     | <10     | <10   |
| Zinc              | 170     | 170   | 120     | 110     | 100     | 100   |
| Uranium (as U)    | 4       | 13*   | 10      | 2       | 6.2     | 9.5   |
| Radium-226(pCi/l) | 1.7±0.6 | <0.1† | 0.9±0.4 | 0.4±0.3 | 0.9±0.3 | <0.2† |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 4 of 6

Sample Number: ~~FM-6~~ SMI-1  
Sample Type: MONITOR WELL  
Formation: BRULE

Surface Elevation: 3869.5 ft. MSL  
Well Depth: 217 ft.  
Distance from Wellfield: 0 ft.

SAMPLE RESULTS

| Sample date | 04-88 | 07-88 | 10-88 | 02-89 | 04-89 | 07-89 |
|-------------|-------|-------|-------|-------|-------|-------|
| Laboratory  | ELI   | ELI   | ELI   | ELI   | ELI   | ELI   |

All values in mg/l unless noted

|                                   |       |       |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|-------|-------|
| Calcium                           | 4.4   | 4.5   | 4.9*  | 4.7   | 4.6   | 4.6   |
| Magnesium                         | 0.17  | 0.22  | 0.2   | 0.20  | 0.17  | 0.26  |
| Sodium                            | 97.2  | 94.6  | 98.7  | 94.1  | 92.6  | 96.0  |
| Potassium                         | 8.7   | 9.5   | 10.1* | 9.2   | 9.3   | 9.2   |
| Carbonate                         | 2.6   | 3.8   | 0     | 0     | 4.5   | 0     |
| Bicarbonate                       | 217   | 217   | 229*  | 215   | 204   | 220   |
| Sulfate                           | 34.0  | 30.9  | 35.5  | 36.6  | 35.0  | 35.7  |
| Chloride                          | 3.9   | 4.6   | 4.1   | 4.1   | 3.7   | 3.7   |
| Ammonia-N                         | <0.05 | 0.06* | <0.05 | <0.05 | 0.06* | 0.06* |
| Nitrite-N                         | 0.005 | 0.007 | 0.005 | 0.005 | 0.006 | 0.004 |
| Nitrate-N                         | 1.71  | 1.68  | 1.79  | 1.63  | 1.88* | 1.80* |
| Fluoride                          | 0.42  | 0.46  | 0.36  | 0.42  | 0.37  | 0.39  |
| Silica(as SiO <sub>2</sub> )      | 62.1  | 53.5* | 49.2* | 64.2  | 62.1  | 62.1  |
| TDS-180°C                         | 320   | 302   | 324   | 306   | 304   | 314   |
| Conductivity (µmhos)              | 463   | 420   | 467   | 453   | 444   | 449   |
| Alkalinity(as CaCO <sub>3</sub> ) | 182   | 184   | 188   | 176   | 175   | 180   |
| pH (standard units)               | 8.42  | 8.58  | 8.29  | 8.10  | 8.68  | 8.00  |
| ion Balance                       | 0.98  | 1.00  | 0.99  | 0.99  | 0.99  | 0.98  |
| TDS Balance                       | 0.97  | 0.95  | 0.99  | 0.93  | 0.94  | 0.95  |
| Cond. Balance                     | 0.97  | 0.98  | 1.02  | 1.01  | 1.02  | 1.05  |

All values in µg/l unless noted

|                   |         |       |         |         |         |         |
|-------------------|---------|-------|---------|---------|---------|---------|
| Aluminum          | <100    | <100  | <100    | <100    | <100    | <100    |
| Arsenic           | 10      | 8     | 8       | 9       | 13*     | 9       |
| Barium            | <100    | <100  | <100    | <100    | <100    | <100    |
| Boron             | 80      | 70    | 80      | 90      | 90      | 90      |
| Cadmium           | <1      | <1    | 2       | <1      | <1      | 2       |
| Chromium          | <5      | <5    | <5      | <5      | <5      | <5      |
| Cobalt            | NA      | NA    | NA      | NA      | NA      | NA      |
| Copper            | <10     | <10   | <10     | <10     | <10     | <10     |
| Iron              | <30     | <30   | 40      | 40      | 40      | <30     |
| Lead              | <5      | <5    | <5      | <5      | <5      | <5      |
| Manganese         | <5      | <5    | <5      | <5      | <5      | <5      |
| Mercury           | <0.2    | <0.2  | <0.2    | <0.2    | <0.2    | <0.2    |
| Molybdenum        | <10     | 10    | <10     | 10      | <10     | <10     |
| Nickel            | <10     | <10   | <10     | <10     | <10     | <10     |
| Selenium          | 3       | 2     | 2       | <1      | 3       | 2       |
| Vanadium          | 10      | 10    | 10      | 10      | <10     | <10     |
| Zinc              | 170     | 120   | 110     | 110     | 90      | 140     |
| Uranium (as U)    | 8.5     | 9.4   | 10.4    | 7.8     | 7.1     | 6.9     |
| Radium-226(mCi/l) | 1.0±0.5 | <0.2± | 1.2±2.8 | 2.1±0.2 | 0.4±0.3 | 2.4±1.1 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 5 of 6

Sample Number: ~~PH-6~~ SM1-1  
Sample Type: MONITOR WELL  
Formation: BRULE

Surface Elevation: 3869.5 ft. MSL  
Well Depth: 217 ft.  
Distance from Wellfield: 0 ft.

SAMPLE RESULTS

| Sample date                     | 07-87 | 10-89  | 01-90 | 04-90 |
|---------------------------------|-------|--------|-------|-------|
| Laboratory                      | WAMCO | ELI    | ELI   | ELI   |
| All values in mg/l unless noted |       |        |       |       |
| Calcium                         | 7*    | 4.5    | 4.6   | 4.0   |
| Magnesium                       | 4*    | 0.2    | 0.24  | 0.23  |
| Sodium                          | 96    | 100    | 99    | 97.1  |
| Potassium                       | 7     | 9.4    | 8.4   | 9.4   |
| Carbonate                       | 24    | 3.5    | 5.0   | 0     |
| Bicarbonate                     | 190   | 221    | 221   | 235*  |
| Sulfate                         | 24*   | 35.5   | 34.9  | 34.0  |
| Chloride                        | 13*   | 3.5    | 4.1   | 3.3   |
| Ammonia-N                       | <0.05 | 0.05   | <0.05 | 0.05  |
| Nitrite-N                       | <.001 | 0.019* | 0.001 | 0.007 |
| Nitrate-N                       | 1.69  | 1.52   | 1.75  | 1.66  |
| Fluoride                        | 0.57* | 0.43   | 0.50  | 0.4   |
| Silica(as SiO2)                 | 62    | 64.2   | 62.1  | 59.   |
| TDS-180°C                       | 302   | 336    | 330   | 322   |
| Conductivity (umhos)            | 540*  | 483*   | 461   | 470   |
| Alkalinity(as CaCO3)            | 19*   | 187    | 190   | 192   |
| pH (standard units)             | 8.18  | 8.54   | 8.69  | 8.40  |
| Ion Balance                     | 1.03  | 0.97   | 1.00  | 1.01  |
| TDS Balance                     | 0.91  | 0.99   | 0.98  | 0.96  |
| Cond. Balance                   | 0.96  | 1.02   | 1.05  | 1.01  |

All values in µg/l unless noted

|                   |         |         |         |         |
|-------------------|---------|---------|---------|---------|
| Aluminum          |         | <100    | <100    | <100    |
| Arsenic           | <5      | 10      | 9       | 8       |
| Barium            | <100    | <100    | <100    | <100    |
| Boron             | 0.41*   | 90      | 90      | 90      |
| Cadmium           | <1      | <1      | <1      | <1      |
| Chromium          | <5      | <5      | <5      | <5      |
| Cobalt            | NA      | NA      | NA      | NA      |
| Copper            | <10     | <10     | <10     | <10     |
| Iron              | <30     | 30      | 40      | 40      |
| Lead              | <5      | <5      | <5      | <5      |
| Manganese         | <5      | <5      | <5      | <5      |
| Mercury           | <0.2    | <0.2    | <0.2    | <0.2    |
| Molybdenum        | <10     | <10     | <10     | <10     |
| Nickel            | <10     | <10     | 10      | <10     |
| Selenium          | 5       | 3       | 3       | 3       |
| Vanadium          | <10     | <10     | <10     | <10     |
| Zinc              | <10     | 130     | 100     | 120     |
| Uranium (as U)    | 2       | 8.6     | 7       | 7       |
| Radium-226(pCi/l) | 1.6±0.4 | 0.2±0.2 | 0.2±0.2 | 0.6±0.9 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 6 of 6

Sample Number: PH-6 SM1-1  
Sample Type: MONITOR WELL  
Formation: BRULE

Surface Elevation: 3869.5 ft. MSL  
Well Depth: 217 ft.  
Distance from Wellfield: 0 ft.

SAMPLE SUMMARY

| PARAMETER | MINIMUM | MAXIMUM | MEAN | STD. DEVIATION |
|-----------|---------|---------|------|----------------|
|-----------|---------|---------|------|----------------|

All values in mg/l unless noted

|                       |       |       |         |        |
|-----------------------|-------|-------|---------|--------|
| Calcium               | 2.3   | 4.9   | 3.996   | .859   |
| Magnesium             | 0.13  | 0.26  | .196    | .03    |
| Sodium                | 90.7  | 100   | 96.012  | 2.65   |
| Potassium             | 6.7   | 9.5   | 8.672   | .764   |
| Carbonate             | <1    | 24    | 8.068   | 6.972  |
| Bicarbonate           | 171   | 222   | 204.36  | 13.094 |
| Sulfate               | 30.9  | 39.3  | 35.754  | 1.941  |
| Chloride              | 1.9   | 12    | 5.16    | 2.683  |
| Ammonia-N             | <0.05 | <0.05 | .05     | 0      |
| Nitrite-N             | .001  | 0.01  | 6E-03   | 3E-03  |
| Nitrate-N             | 0.77  | 1.79  | 1.491   | .286   |
| Fluoride              | 0.32  | 0.5   | .436    | .051   |
| Silica (as SiO2)      | 59    | 66    | 62.818  | 2.033  |
| TDS @ 20°C            | 300   | 342   | 319.5   | 11.905 |
| Conductivity (µmhos)  | 420   | 470   | 447.84  | 14.727 |
| Alkalinity (as CaCO3) | 166   | 192   | 180.128 | 6.81   |
| pH (standard units)   | 8.00  | 8.69  | 8.443   | .167   |
| Ion Balance           |       |       |         |        |
| TDS Balance           |       |       |         |        |
| Cond. Balance         |       |       |         |        |

All values in µg/l unless noted

|                    |      |      |        |        |
|--------------------|------|------|--------|--------|
| Aluminum           | <100 | <100 | 100    | 0      |
| Arsenic            | 4    | 11   | 8.44   | 1.734  |
| Barium             | <100 | <100 | 100    | 0      |
| Boron              | 70   | 140  | 96.818 | 20.791 |
| Cadmium            | <0.1 | 2    | 1.088  | .397   |
| Chromium           | 5    | 5    | 5      | 0      |
| Cobalt             | <1   | <5   | 3.667  | 2.066  |
| Copper             | <10  | <10  | 10     | 0      |
| Iron               | <30  | <50  | 35.714 | 7.464  |
| Lead               | 5    | 5    | 5      | 0      |
| Manganese          | <5   | <5   | 5      | 0      |
| Mercury            | 0.2  | 0.2  | .2     | 0      |
| Molybdenum         | <10  | <10  | 10     | 0      |
| Nickel             | <10  | <10  | 10     | 0      |
| Selenium           | 1    | 5    | 2.08   | 1.115  |
| Vanadium           | <10  | <10  | 10     | 0      |
| Zinc               | <10  | 290  | 140.4  | 60.723 |
| Uranium (as U)     | <1   | 10.4 | 6.536  | 2.794  |
| Radium-226 (pCi/l) | <0.1 | 2.4  | .9     | .616   |

FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | SM1-2    | SM1-2    | SM1-2    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-16-90 | 10-31-90 | 11-15-90 |      |                    |
| Report Date:       | 11-30-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-25989 | 90-29552 | 90-29840 |      |                    |

MAJOR IONS mg/l:

|                       |       |       |       |        |         |
|-----------------------|-------|-------|-------|--------|---------|
| Ca                    | 8.2   | 5.9   | 5.3   | 6.47   | ± 1.53  |
| Mg                    | <1.0  | <1.0  | <1.0  | <1.00  | ± 0.00  |
| Na                    | 140   | 150   | 148   | 146.00 | ± 5.29  |
| K                     | 14.0  | 15.0  | 15.8  | 14.93  | ± 0.90  |
| CO3                   | 16.2  | 14.1  | 8.6   | 12.97  | ± 3.92  |
| HCO3                  | 259   | 260   | 262   | 260.33 | ± 1.53  |
| SO4                   | 59.2  | 60    | 60.0  | 59.73  | ± 0.46  |
| Cl                    | 31.0  | 37.9  | 41.3  | 36.73  | ± 5.25  |
| NH4                   | 0.15  | <0.05 | <0.05 | ±0.08  | ± 0.06  |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01  | ± 0.00  |
| NO3                   | 0.64  | 0.45  | 0.62  | 0.57   | ± 0.10  |
| F                     | 0.89  | 0.93  | 1.15  | 0.99   | ± 0.14  |
| SiO2                  | 89.9  | 94.2  | 82.7  | 88.93  | ± 5.81  |
| TDS @ 180 C           | 448   | 496   | 501   | 481.67 | ± 29.26 |
| Cond (umho/cm)        | 710   | 739   | 693   | 714.00 | ± 23.26 |
| Dilute Cond (umho/cm) | 777   | 776   | 770   | 774.33 | ± 3.79  |
| Alk - CaCO3           | 240   | 237   | 229   | 235.33 | ± 5.69  |
| pH (std units)        | 9.13  | 9.07  | 8.85  | 9.02   | ± 0.15  |

TRACE METALS mg/l:

|    |        |        |       |        |         |
|----|--------|--------|-------|--------|---------|
| Al | <0.10  | <0.10  | <0.10 | <0.10  | ± 0.00  |
| As | 0.073  | 0.078  | 0.074 | 0.075  | ± 0.003 |
| Ba | <0.10  | <0.10  | <0.10 | <0.10  | ± 0.00  |
| B  | 0.13   | 0.13   | 0.21  | 0.16   | ± 0.05  |
| Cd | <0.01  | <0.01  | <0.01 | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05 | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01 | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | 0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | 0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | 0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | 0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | 0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05 | <0.05  | ± 0.00  |
| Se | 0.007  | 0.007  | 0.007 | 0.007  | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10 | <0.10  | ± 0.00  |
| Zn | 0.09   | 0.17   | 0.24  | 0.17   | ± 0.08  |

RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0027 | 0.0103 | 0.0040 | 0.0057 | ± 0.0041 |
| Ra226 (pCi/l) | 2.6    | 2.3    | 0.5    | 1.80   | ± 1.14   |
| Ra Prec. ±    | 0.4    | 0.4    | 0.3    | 0.37   | ± 0.06   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 6.99  | 7.13  | 7.10  |  |  |
| Cation meq:      | 6.97  | 7.31  | 7.17  |  |  |
| A/C Balance:     | 1.002 | 0.975 | 0.991 |  |  |
| Calc TDS mg/l:   | 493   | 511   | 497   |  |  |
| TDS A/C Bal:     | 0.908 | 0.970 | 1.007 |  |  |
| Calc Dil. Cond.: | 738   | 766   | 753   |  |  |
| Dil. Cond. Bal:  | 1.053 | 1.013 | 1.023 |  |  |



ENERGY LABORATORIES, INC.

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 254 NORTH CENTER SUITE 100 • CASPER WY 82401 • FAX (307) 234-1639

FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
 BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | SM1-3    | SM1-3    | SM1-3    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-16-90 | 10-31-90 | 11-15-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-25999 | 90-29553 | 90-29834 |      |                    |

MAJOR IONS mg/l:

|                       |       |       |       |        |         |
|-----------------------|-------|-------|-------|--------|---------|
| Ca                    | 7.4   | 5.8   | 7.9   | 7.03   | ± 1.10  |
| Mg                    | <1.0  | <1.0  | <1.0  | <1.00  | ± 0.00  |
| Na                    | 142   | 148   | 148   | 146.00 | ± 3.46  |
| K                     | 19.0  | 19.0  | 23.8  | 20.60  | ± 2.77  |
| CO3                   | 24.6  | 19.8  | 14.7  | 19.70  | ± 4.95  |
| HCO3                  | 227   | 231   | 225   | 227.67 | ± 3.06  |
| SO4                   | 43.0  | 41.4  | 42.3  | 42.23  | ± 0.80  |
| Cl                    | 55.0  | 72.3  | 82.6  | 69.97  | ± 13.95 |
| NH4                   | <0.05 | <0.05 | <0.05 | <0.05  | ± 0.00  |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01  | ± 0.00  |
| NO3                   | 1.15  | 0.84  | 1.31  | 1.10   | ± 0.24  |
| F                     | 0.50  | 0.51  | 0.62  | 0.54   | ± 0.07  |
| SiO2                  | 77.0  | 79.2  | 64.2  | 73.47  | ± 8.10  |
| TDS @ 180 C           | 483   | 486   | 501   | 490.00 | ± 9.64  |
| Cond (umho/cm)        | 664   | 778   | 783   | 741.67 | ± 67.31 |
| Dilute Cond (umho/cm) | 801   | 817   | 850   | 822.67 | ± 24.99 |
| Alk - CaCO3           | 228   | 223   | 210   | 220.33 | ± 9.29  |
| pH (std units)        | 9.37  | 9.27  | 9.15  | 9.20   | ± 0.11  |

TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | 0.012  | 0.013  | 0.013  | 0.013  | ± 0.001 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | <0.10  | <0.10  | 0.12   | ±0.11  | ± 0.01  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | 0.02   | 0.02   | ±0.02  | ± 0.01  |
| Fe | <0.05  | 0.05   | 0.06   | ±0.05  | ± 0.01  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | 0.006  | 0.006  | 0.007  | 0.006  | ± 0.001 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.30   | 0.37   | 0.53   | 0.40   | ± 0.12  |

RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0055 | 0.0077 | 0.0070 | 0.0067 | ± 0.0011 |
| Ra226 (pCi/l) | 7.8    | 1.4    | 2.1    | 3.77   | ± 3.51   |
| Ra Prec. ±    | 0.6    | 0.3    | 0.5    | 0.47   | ± 0.15   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 7.10  | 7.43  | 7.51  |  |  |
| Cation meq:      | 7.15  | 7.33  | 7.51  |  |  |
| A/C Balance:     | 0.993 | 1.014 | 1.000 |  |  |
| Calc TDS mg/l:   | 489   | 507   | 504   |  |  |
| TDS A/C Bal:     | 0.988 | 0.959 | 0.995 |  |  |
| Calc Dil. Cond.: | 777   | 810   | 827   |  |  |
| Dil. Cond. Bal:  | 1.030 | 1.009 | 1.028 |  |  |

**FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT**

| Sample I.D.:       | CM1-1    | CM1-1    | CM1-1    |      |           |
|--------------------|----------|----------|----------|------|-----------|
| Sample Date:       | 10-16-90 | 10-31-90 | 11-15-90 |      |           |
| Report Date:       | 11-30-90 | 11-23-90 | 11-30-90 | Mean | Standard  |
| Laboratory I.D. #: | 90-25991 | 90-29545 | 90-29838 |      | Deviation |

**MAJOR IONS mg/l:**

|                       |       |       |       |         |         |
|-----------------------|-------|-------|-------|---------|---------|
| Ca                    | 16.0  | 17.0  | 18.3  | 17.10   | ± 1.15  |
| Mg                    | 4.2   | 4.3   | 4.5   | 4.33    | ± 0.15  |
| Na                    | 410   | 430   | 414   | 418.00  | ± 10.58 |
| K                     | 13.0  | 13.0  | 9.7   | 11.90   | ± 1.91  |
| CO3                   | 3.4   | 5.5   | 4.8   | 4.57    | ± 1.07  |
| HCO3                  | 358   | 337   | 330   | 341.67  | ± 14.57 |
| SO4                   | 375   | 369   | 351   | 365.00  | ± 12.49 |
| Cl                    | 189   | 224   | 234   | 215.67  | ± 23.63 |
| NH4                   | 0.29  | 0.30  | 0.23  | 0.27    | ± 0.04  |
| NO2                   | <0.01 | 0.01  | <0.01 | ≤0.01   | ± 0.00  |
| NO3                   | 0.02  | <0.01 | <0.01 | ≤0.01   | ± 0.01  |
| F                     | 0.57  | 0.65  | 0.70  | 0.64    | ± 0.07  |
| SiO2                  | 16.7  | 17.5  | 15.9  | 16.70   | ± 0.80  |
| TDS @ 180 C           | 1115  | 1252  | 1209  | 1192.00 | ± 70.06 |
| Cond (umho/cm)        | 1987  | 2107  | 2044  | 2046.00 | ± 60.02 |
| Dilute Cond (umho/cm) | 2174  | 2280  | 2255  | 2236.33 | ± 55.41 |
| Alk - CaCO3           | 299   | 286   | 279   | 288.00  | ± 10.15 |
| pH (std units)        | 8.31  | 8.55  | 8.50  | 8.45    | ± 0.13  |

**TRACE METALS mg/l:**

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.87   | 0.89   | 0.92   | 0.89   | ± 0.03  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.02   | 0.01   | 0.01   | 0.01   | ± 0.01  |

**RADIOMETRIC:**

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0034 | 0.0039 | 0.0070 | 0.0048 | ± 0.0020 |
| Ra226 (pCi/l) | 10.2   | 9.9    | 10.0   | 10.03  | ± 0.15   |
| Ra Prec. ±    | 0.6    | 0.7    | 0.9    | 0.73   | ± 0.15   |

**QUALITY ASSURANCE DATA:**

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 19.15 | 19.74 | 19.51 |  |  |
| Cation meq:      | 19.35 | 20.27 | 19.57 |  |  |
| A/C Balance:     | 0.990 | 0.974 | 0.997 |  |  |
| Calc TDS mg/l:   | 1208  | 1250  | 1218  |  |  |
| TDS A/C Bal:     | 0.923 | 1.002 | 0.992 |  |  |
| Calc Dil. Cond.: | 2202  | 2305  | 2255  |  |  |
| Dil. Cond. Bal:  | 0.987 | 0.989 | 1.000 |  |  |



ENERGY LABORATORIES, INC.

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FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
 BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | CM1-2    | CM1-2    | CM1-2    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-16-90 | 10-31-90 | 11-15-90 |      |                    |
| Report Date:       | 11-30-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-25990 | 90-29546 | 90-29839 |      |                    |

MAJOR IONS mg/l.

|                       |       |       |       |         |         |
|-----------------------|-------|-------|-------|---------|---------|
| Ca                    | 15.0  | 15.0  | 17.2  | 15.74   | ± 1.28  |
| Mg                    | 4.2   | 4.3   | 4.4   | 4.30    | ± 0.10  |
| Na                    | 410   | 410   | 390   | 403.33  | ± 11.55 |
| K                     | 12.0  | 12.0  | 9.4   | 11.13   | ± 1.50  |
| CO3                   | 0     | 5.3   | 5.4   | 3.57    | ± 3.09  |
| HCO3                  | 362   | 351   | 352   | 355.00  | ± 6.08  |
| SO4                   | 345   | 346   | 338   | 343.00  | ± 4.36  |
| Cl                    | 193   | 189   | 179   | 187.00  | ± 7.21  |
| NH4                   | 0.29  | 0.32  | 0.24  | 0.28    | ± 0.04  |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00  |
| NO3                   | 0.08  | <0.01 | <0.01 | ≤0.03   | ± 0.04  |
| F                     | 0.57  | 0.60  | 0.70  | 0.62    | ± 0.07  |
| SiO2                  | 16.7  | 18.0  | 14.8  | 16.50   | ± 1.61  |
| TDS @ 180 C           | 1149  | 1170  | 1145  | 1154.67 | ± 13.43 |
| Cond (umho/cm)        | 1975  | 1996  | 1394  | 1955.00 | ± 53.86 |
| Dilute Cond (umho/cm) | 2161  | 2160  | 2066  | 2135.67 | ± 43.02 |
| Alk - CaCO3           | 297   | 297   | 298   | 297.33  | ± 0.58  |
| pH (std units)        | 8.29  | 8.51  | 8.52  | 8.44    | ± 0.13  |

TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.87   | 0.90   | 0.96   | 0.91   | ± 0.05  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | 0.01   | 0.01   | 0.02   | 0.01   | ± 0.01  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | <0.01  | 0.02   | 0.01   | ≤0.01  | ± 0.01  |

RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0261 | 0.0196 | 0.0280 | 0.0246 | ± 0.0044 |
| Ra226 (pCi/l) | 8.5    | 17.9   | 4.7    | 10.37  | ± 6.80   |
| Ra Prec. ±    | 0.7    | 1.8    | 0.6    | 1.03   | ± 0.67   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 18.59 | 18.50 | 18.07 |  |  |
| Cation meq:      | 19.27 | 19.28 | 18.46 |  |  |
| A/C Balance:     | 0.965 | 0.959 | 0.979 |  |  |
| Calc TDS mg/l:   | 1178  | 1176  | 1136  |  |  |
| TDS A/C Bal:     | 0.975 | 0.995 | 1.008 |  |  |
| Calc Dil. Cond.: | 2154  | 2154  | 2080  |  |  |
| Dil. Cond. Bal:  | 1.003 | 1.003 | 1.003 |  |  |

**FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
 BASELINE WATER ANALYSIS REPORT**

| Sample I.D.:       | CM1-3    | CM1-3    | CM1-3    |      |           |
|--------------------|----------|----------|----------|------|-----------|
| Sample Date:       | 10-15-90 | 10-31-90 | 11-15-90 |      |           |
| Report Date:       | 11-30-90 | 11-23-90 | 11-30-90 | Mean | Standard  |
| Laboratory I.D. #: | 90-25988 | 90-29550 | 90-29836 |      | Deviation |

**MAJOR IONS mg/l:**

|                       |       |       |       |         |         |
|-----------------------|-------|-------|-------|---------|---------|
| Ca                    | 16.0  | 16.0  | 17.6  | 16.53   | ± 0.92  |
| Mg                    | 4.0   | 3.9   | 4.3   | 4.07    | ± 0.21  |
| Na                    | 400   | 400   | 395   | 398.33  | ± 2.89  |
| K                     | 11.0  | 11.0  | 15.8  | 12.60   | ± 2.77  |
| CO3                   | 9.4   | 5.0   | 5.3   | 6.57    | ± 2.46  |
| HCO3                  | 315   | 353   | 356   | 341.33  | ± 22.85 |
| SO4                   | 349   | 364   | 334   | 349.00  | ± 15.00 |
| Cl                    | 189   | 193   | 186   | 189.33  | ± 3.51  |
| NH4                   | 0.34  | 0.37  | 0.36  | 0.36    | ± 0.02  |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00  |
| NO3                   | 0.02  | <0.01 | 0.02  | ≤0.02   | ± 0.01  |
| F                     | 0.62  | 0.62  | 0.72  | 0.65    | ± 0.06  |
| S102                  | 14.6  | 15.2  | 12.8  | 14.20   | ± 1.25  |
| TDS @ 180 C           | 1163  | 1180  | 1145  | 1162.67 | ± 17.50 |
| Cond (umho/cm)        | 1969  | 1996  | 1898  | 1954.33 | ± 50.62 |
| Dilute Cond (umho/cm) | 2155  | 2160  | 2135  | 2150.00 | ± 13.23 |
| Alk - CaCO3           | 274   | 298   | 301   | 291.00  | ± 14.80 |
| pH (std units)        | 8.81  | 8.49  | 8.51  | 8.60    | ± 0.18  |

**TRACE METALS mg/l:**

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.85   | 0.87   | 0.89   | 0.87   | ± 0.02  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | 0.01   | 0.01   | 0.01   | 0.01   | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.03   | 0.02   | 0.02   | 0.02   | ± 0.01  |

**RADIOMETRIC:**

|               |         |        |        |         |          |
|---------------|---------|--------|--------|---------|----------|
| U (mg/l)      | <0.0003 | 0.0009 | 0.0010 | ≤0.0007 | ± 0.0004 |
| Ra226 (pCi/l) | 17.9    | 13.4   | 9.7    | 13.67   | ± 4.11   |
| Ra Prec. ±    | 1.6     | 1.6    | 1.0    | 1.40    | ± 0.35   |

**QUALITY ASSURANCE DATA:**

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Alk ion meq:     | 18.11 | 19.01 | 18.25 |  |  |
| Cation meq:      | 18.85 | 18.84 | 18.86 |  |  |
| A/C Balance:     | 0.961 | 1.009 | 0.968 |  |  |
| Calc TDS mg/l:   | 1152  | 1186  | 1150  |  |  |
| TDS A/C Bal:     | 1.010 | 0.995 | 0.995 |  |  |
| Calc Dil. Cond.: | 2123  | 2169  | 2115  |  |  |
| Dil. Cond. Bal:  | 1.015 | 0.996 | 1.010 |  |  |

**FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
 BASELINE WATER ANALYSIS REPORT**

| Sample I.D.:       | CM1-4    | CM1-4    | CM1-4    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-16-90 | 10-31-90 | 11-15-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-25998 | 90-29544 | 90-29831 |      |                    |

**MAJOR IONS mg/l:**

|                       |       |       |       |         |          |
|-----------------------|-------|-------|-------|---------|----------|
| Ca                    | 15.0  | 16.0  | 16.4  | 15.80   | ± 0.72   |
| Mg                    | 3.5   | 3.8   | 4.1   | 3.80    | ± 0.30   |
| Na                    | 400   | 420   | 399   | 406.33  | ± 11.85  |
| K                     | 11.0  | 12.0  | 14.4  | 12.47   | ± 1.75   |
| CO3                   | 3.9   | 5.6   | 5.6   | 5.03    | ± 0.98   |
| HCO3                  | 350   | 348   | 352   | 353.00  | ± 5.57   |
| SO4                   | 360   | 352   | 340   | 350.67  | ± 10.07  |
| Cl                    | 193   | 213   | 220   | 208.67  | ± 14.01  |
| NH4                   | 0.27  | 0.33  | 0.36  | 0.32    | ± 0.05   |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00   |
| NO3                   | 0.03  | <0.01 | <0.01 | ±0.02   | ± 0.01   |
| F                     | 0.62  | 0.60  | 0.70  | 0.64    | ± 0.05   |
| SiO2                  | 16.1  | 16.7  | 13.2  | 15.33   | ± 1.87   |
| TDS @ 180 C           | 1151  | 1246  | 1200  | 1199.00 | ± 47.51  |
| Cond (umho/cm)        | 1781  | 2063  | 2059  | 1967.67 | ± 161.67 |
| Dilute Cond (umho/cm) | 2149  | 2232  | 2155  | 2178.67 | ± 46.29  |
| Alk - CaCO3           | 301   | 295   | 298   | 298.00  | ± 3.00   |
| pH (std units)        | 8.37  | 8.54  | 8.54  | 8.48    | ± 0.10   |

**TRACE METALS mg/l:**

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.87   | 0.90   | 0.93   | 0.90   | ± 0.03  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | 0.01   | ±0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.01   | 0.02   | 0.02   | 0.02   | ± 0.01  |

**RADIOMETRIC:**

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0337 | 0.0275 | 0.0310 | 0.0307 | ± 0.0031 |
| Ra226 (pCi/l) | 358    | 486    | 351    | 398.33 | ± 76.00  |
| Ra Prec. ±    | 8.3    | 10.5   | 7.2    | 8.67   | ± 1.68   |

**QUALITY ASSURANCE DATA:**

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 18.99 | 19.26 | 19.28 |  |  |
| Cation meq:      | 18.75 | 19.73 | 18.92 |  |  |
| A/C Balance:     | 1.013 | 0.976 | 1.019 |  |  |
| Calc TDS mg/l:   | 1183  | 1214  | 1190  |  |  |
| TDS A/C Bal:     | 0.973 | 1.026 | 1.008 |  |  |
| Calc Dil. Cond.: | 2160  | 2235  | 2197  |  |  |
| Dil. Cond. Bal:  | 0.995 | 0.999 | 0.981 |  |  |



ENERGY LABORATORIES, INC.

P. O. BOX 1254 - CASPER WY 82402 / PHONE (307) 235-0515  
254 NORTH CENTER SUITE 100 - CASPER WY 82401 - FAX (307) 234-1639

FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | CM1-5    | CM1-5    | CM1-5    |      |           |
|--------------------|----------|----------|----------|------|-----------|
| Sample Date:       | 10-15-90 | 10-31-90 | 11-15-90 |      |           |
| Report Date:       | 11-30-90 | 11-23-90 | 11-30-90 | Mean | Standard  |
| Laboratory I.D. #: | 90-25987 | 90-29551 | 90-29837 |      | Deviation |

MAJOR IONS mg/l:

|                       |       |       |       |         |          |
|-----------------------|-------|-------|-------|---------|----------|
| Ca                    | 9.2   | 8.7   | 12.7  | 10.20   | ± 2.18   |
| Mg                    | 2.9   | 3.0   | 3.9   | 3.27    | ± 0.55   |
| Na                    | 500   | 490   | 466   | 485.33  | ± 17.47  |
| K                     | 19.0  | 23.0  | 25.7  | 22.57   | ± 3.37   |
| CO3                   | 0     | 10.9  | 6.2   | 5.70    | ± 5.47   |
| HCO3                  | 375   | 303   | 336   | 338.00  | ± 36.04  |
| SO4                   | 374   | 347   | 351   | 357.33  | ± 14.57  |
| Cl                    | 330   | 361   | 298   | 329.67  | ± 31.50  |
| NH4                   | 0.30  | 0.26  | 0.27  | 0.28    | ± 0.02   |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00   |
| NO3                   | 0.02  | <0.01 | <0.01 | <0.01   | ± 0.01   |
| F                     | 0.52  | 0.60  | 0.78  | 0.63    | ± 0.13   |
| SiO2                  | 14.3  | 14.6  | 13.3  | 14.07   | ± 0.68   |
| TDS @ 180 C           | 1372  | 1396  | 1337  | 1368.33 | ± 29.67  |
| Cond (umho/cm)        | 2448  | 2553  | 2124  | 2375.00 | ± 223.62 |
| Dilute Cond (umho/cm) | 2679  | 2762  | 2551  | 2664.00 | ± 106.30 |
| Alk - CaCO3           | 307   | 267   | 286   | 286.67  | ± 20.01  |
| pH (std units)        | 8.16  | 8.89  | 8.60  | 8.55    | ± 0.37   |

TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.80   | 0.83   | 1.02   | 0.88   | ± 0.12  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | <0.01  | 0.03   | 0.01   | ±0.02  | ± 0.01  |

RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0515 | 0.0446 | 0.0690 | 0.0550 | ± 0.0126 |
| Ra226 (pCi/l) | 128    | 203    | 213    | 181.33 | ± 46.46  |
| Ra Prec. ±    | 2.5    | 6.0    | 4.9    | 4.47   | ± 1.79   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 23.26 | 22.76 | 21.46 |  |  |
| Cation meq:      | 22.97 | 22.61 | 21.92 |  |  |
| A/C Balance:     | 1.013 | 1.006 | 0.979 |  |  |
| Calc TDS mg/l:   | 1438  | 1411  | 1346  |  |  |
| TDS A/C Bal:     | 0.954 | 0.989 | 0.993 |  |  |
| Calc Dil. Cond.: | 2685  | 2674  | 2524  |  |  |
| Dil. Cond. Bal:  | 0.998 | 1.033 | 1.011 |  |  |



ENERGY LABORATORIES, INC.

P. O. BOX 325A - CASPER, WY 82402 - PHONE (307) 235-0515  
 254 NORTH CENTER SUITE 100 - CASPER, WY 82401 - FAX (307) 234-1439

FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
 BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | CM1-6    | CM1-6    | CM1-6    |      |                    |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-16-90 | 10-31-90 | 11-15-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 | Mean | Standard Deviation |
| Laboratory I.D. #: | 90-26000 | 90-29543 | 90-29830 |      |                    |

MAJOR IONS mg/l:

|                       |       |       |       |         |          |
|-----------------------|-------|-------|-------|---------|----------|
| Ca                    | 18.0  | 18.0  | 20.9  | 18.97   | ± 1.67   |
| Mg                    | 4.7   | 4.6   | 5.0   | 4.77    | ± 0.21   |
| Na                    | 390   | 380   | 380   | 383.33  | ± 5.77   |
| K                     | 12.0  | 11.0  | 12.0  | 11.67   | ± 0.58   |
| CO3                   | 0     | 5.3   | 4.6   | 3.30    | ± 2.88   |
| HCO3                  | 377   | 361   | 364   | 367.33  | ± 8.50   |
| SO4                   | 355   | 345   | 332   | 344.00  | ± 11.53  |
| Cl                    | 186   | 193   | 193   | 190.67  | ± 4.04   |
| NH4                   | 0.29  | 0.31  | 0.33  | 0.31    | ± 0.02   |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00   |
| NO3                   | 0.04  | 0.01  | 0.01  | 0.02    | ± 0.02   |
| F                     | 0.57  | 0.57  | 0.70  | 0.61    | ± 0.08   |
| SiO2                  | 15.4  | 15.2  | 13.0  | 14.53   | ± 1.33   |
| TDS @ 180 C           | 1129  | 1193  | 1150  | 1157.33 | ± 32.62  |
| Cond (umho/cm)        | 1740  | 1964  | 1937  | 1880.33 | ± 122.28 |
| Dilute Cond (umho/cm) | 2100  | 2125  | 2110  | 2111.67 | ± 12.58  |
| Alk - CaCO3           | 309   | 305   | 306   | 306.67  | ± 2.08   |
| pH (std units)        | 8.28  | 8.50  | 8.44  | 8.41    | ± 0.11   |

TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.88   | 0.87   | 0.90   | 0.88   | ± 0.02  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | 0.01   | ≤0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.02   | 0.02   | 0.03   | 0.02   | ± 0.01  |

RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0055 | 0.0024 | 0.0070 | 0.0050 | ± 0.0023 |
| Ra226 (pCi/l) | 19.4   | 15.4   | 12.9   | 15.90  | ± 3.28   |
| Ra Prec. ±    | 0.9    | 1.8    | 1.2    | 1.30   | ± 0.46   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 18.85 | 18.75 | 18.51 |  |  |
| Cation meq:      | 18.59 | 18.12 | 18.33 |  |  |
| A/C Balance:     | 1.014 | 1.035 | 1.010 |  |  |
| Calc TDS mg/l:   | 1171  | 1154  | 1144  |  |  |
| TDS A/C Bal:     | 0.964 | 1.034 | 1.005 |  |  |
| Calc Dil. Cond.: | 2132  | 2111  | 2102  |  |  |
| Dil. Cond. Bal:  | 0.985 | 1.006 | 1.004 |  |  |



ENERGY LABORATORIES, INC.

P. O. BOX 3254 • CASPER WY 82602 • PHONE 337-235-0515  
254 NORTH CENTER SUITE 100 • CASPER WY 82401 • FAX 337-234-1639

FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | CM1-7    | CM1-7    | CM1-7    |      |                    |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-16-90 | 10-31-90 | 11-15-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 | Mean | Standard Deviation |
| Laboratory I.D. #: | 90-25996 | 90-29542 | 90-29833 |      |                    |

MAJOR IONS mg/l:

|                       |       |       |       |         |          |
|-----------------------|-------|-------|-------|---------|----------|
| Ca                    | 16.0  | 16.0  | 17.6  | 16.53   | ± 0.92   |
| Mg                    | 4.1   | 4.0   | 4.6   | 4.23    | ± 0.32   |
| Na                    | 400   | 390   | 388   | 392.67  | ± 6.43   |
| K                     | 13.0  | 11.0  | 12.8  | 12.27   | ± 1.10   |
| CO3                   | 0     | 5.6   | 4.4   | 3.33    | ± 2.95   |
| HCO3                  | 370   | 355   | 356   | 360.33  | ± 8.39   |
| SO4                   | 357   | 348   | 329   | 344.67  | ± 14.29  |
| Cl                    | 186   | 186   | 193   | 188.33  | ± 4.04   |
| NH4                   | 0.26  | 0.37  | 0.33  | 0.32    | ± 0.06   |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00   |
| NO3                   | 0.03  | <0.01 | 0.03  | ≤0.02   | ± 0.01   |
| F                     | 0.64  | 0.60  | 0.75  | 0.66    | ± 0.08   |
| SiO2                  | 16.9  | 16.7  | 14.7  | 16.10   | ± 1.22   |
| TDS @ 180 C           | 1124  | 1207  | 1150  | 1160.33 | ± 42.45  |
| Cond (umho/cm)        | 1747  | 1966  | 1934  | 1882.33 | ± 118.29 |
| Dilute Cond (umho/cm) | 2109  | 2127  | 2110  | 2115.33 | ± 10.12  |
| Alk - CaCO3           | 303   | 300   | 299   | 300.67  | ± 2.08   |
| pH (std units)        | 8.15  | 8.53  | 8.43  | 8.37    | ± 0.20   |

TRACE METALS µg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | 0.001  | <0.001 | <0.001 | ≤0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.90   | 0.90   | 1.01   | 0.94   | ± 0.06  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | 0.01   | ≤0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.02   | 0.03   | 0.02   | 0.02   | ± 0.01  |

RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0302 | 0.0134 | 0.0300 | 0.0245 | ± 0.0096 |
| Ra226 (pCi/l) | 88.5   | 122    | 91.9   | 100.80 | ± 18.44  |
| Ra Prec. ±    | 3.5    | 4.7    | 3.2    | 3.80   | ± 0.79   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 18.78 | 18.53 | 18.32 |  |  |
| Cation meq:      | 18.90 | 18.41 | 18.50 |  |  |
| A/C Balance:     | 0.994 | 1.006 | 0.990 |  |  |
| Calc TDS mg/l:   | 1179  | 1156  | 1144  |  |  |
| TDS A/C Bal:     | 0.953 | 1.044 | 1.006 |  |  |
| Calc Dil. Cond.: | 2106  | 2111  | 2100  |  |  |
| Dil. Cond. Bal:  | 0.983 | 1.007 | 1.005 |  |  |

**FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
 BASELINE WATER ANALYSIS REPORT**

|                    |          |          |          |      |           |
|--------------------|----------|----------|----------|------|-----------|
| Sample I.D.:       | CM1-8    | CM1-8    | CM1-8    |      |           |
| Sample Date:       | 10-16-90 | 10-31-90 | 11-15-90 |      |           |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 | Mean | Standard  |
| Laboratory I.D. #: | 90-25995 | 90-29541 | 90-29832 |      | Deviation |

**MAJOR IONS mg/l:**

|                         |       |       |       |         |         |
|-------------------------|-------|-------|-------|---------|---------|
| Ca                      | 15.0  | 10.0  | 10.1  | 11.70   | ± 2.86  |
| Mg                      | 2.5   | 1.6   | 2.1   | 2.07    | ± 0.45  |
| Na                      | 400   | 390   | 397   | 395.67  | ± 5.13  |
| K                       | 14.0  | 13.0  | 15.2  | 14.07   | ± 1.10  |
| CO <sub>3</sub>         | 7.9   | 12.6  | 8.3   | 9.60    | ± 2.61  |
| HCO <sub>3</sub>        | 335   | 335   | 291   | 320.33  | ± 25.40 |
| SO <sub>4</sub>         | 361   | 321   | 343   | 341.67  | ± 20.03 |
| Cl                      | 182   | 196   | 186   | 188.00  | ± 7.21  |
| NH <sub>4</sub>         | 0.26  | 0.24  | 0.30  | 0.27    | ± 0.03  |
| NO <sub>2</sub>         | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00  |
| NO <sub>3</sub>         | 0.06  | 0.01  | <0.01 | ≤0.03   | ± 0.03  |
| F                       | 0.64  | 0.70  | 0.81  | 0.72    | ± 0.09  |
| SiO <sub>2</sub>        | 17.8  | 18.2  | 15.0  | 17.00   | ± 1.74  |
| TDS @ 180 C             | 1142  | 1185  | 1133  | 1153.33 | ± 27.79 |
| Cond (umho/cm)          | 1748  | 1923  | 1889  | 1853.33 | ± 92.79 |
| Dilute Cond (umho/cm)   | 2110  | 2081  | 2038  | 2076.33 | ± 36.23 |
| Alk - CaCO <sub>3</sub> | 288   | 296   | 253   | 279.00  | ± 22.87 |
| pH (std units)          | 8.71  | 8.91  | 8.79  | 8.80    | ± 0.10  |

**TRACE METALS mg/l:**

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | 0.002  | 0.002  | 0.002  | 0.002  | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.88   | 0.84   | 1.02   | 0.91   | ± 0.09  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | 0.01   | ≤0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.01   | 0.01   | 0.01   | 0.01   | ± 0.00  |

**RADIOMETRIC:**

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0089 | 0.0094 | 0.0090 | 0.0091 | ± 0.0003 |
| Ra226 (pCi/l) | ~      | 1.8    | 9.6    | 4.97   | ± 4.10   |
| Ra Prec. ±    | 0.4    | 0.4    | 1.1    | 0.63   | ± 0.40   |

**QUALITY ASSURANCE DATA:**

|                  |       |       |       |
|------------------|-------|-------|-------|
| Anion meq:       | 18.44 | 18.16 | 17.48 |
| Cation meq:      | 18.74 | 17.96 | 18.37 |
| A/C Balance:     | 0.984 | 1.011 | 0.951 |
| Calc TDS mg/l:   | 1169  | 1131  | 1124  |
| TDS A/C Bal:     | 0.977 | 1.048 | 1.008 |
| Calc Dil. Cond.: | 2134  | 2076  | 2066  |
| Dil. Cond. Bal:  | 0.989 | 1.003 | 0.987 |



ENERGY LABORATORIES, INC.

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254 NORTH CENTER SUITE 100 • CASPER WY 82601 • FAX (307) 234-1639

FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | CM1-9    | CM1-9    | CM1-9    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-16-90 | 10-31-90 | 11-16-90 |      |                    |
| Report Date:       | 11-30-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-25993 | 90-29549 | 90-29848 |      |                    |

MAJOR IONS mg/l:

|                       |       |       |       |         |         |
|-----------------------|-------|-------|-------|---------|---------|
| Ca                    | 18.0  | 17.0  | 18.5  | 17.83   | ± 0.76  |
| Mg                    | 4.6   | 4.4   | 5.2   | 4.73    | ± 0.42  |
| Na                    | 390   | 400   | 388   | 392.67  | ± 6.43  |
| K                     | 12.0  | 12.0  | 11.8  | 11.93   | ± 0.12  |
| CO3                   | 0     | 4.5   | 5.7   | 3.40    | ± 3.00  |
| HCO3                  | 372   | 353   | 354   | 359.67  | ± 10.69 |
| SO4                   | 365   | 354   | 352   | 357.00  | ± 7.00  |
| Cl                    | 176   | 189   | 186   | 183.67  | ± 6.81  |
| NH4                   | 0.31  | 0.34  | 0.30  | 0.32    | ± 0.02  |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00  |
| NO3                   | 0.05  | <0.01 | <0.01 | ≤0.02   | ± 0.02  |
| F                     | 0.62  | 0.60  | 0.78  | 0.67    | ± 0.10  |
| SiO2                  | 17.3  | 18.4  | 15.2  | 16.97   | ± 1.63  |
| TDS @ 180 C           | 1160  | 1183  | 1145  | 1162.67 | ± 19.14 |
| Cond (umho/cm)        | 1946  | 1994  | 2023  | 1987.67 | ± 38.89 |
| Dilute Cond (umho/cm) | 2129  | 2158  | 2135  | 2140.67 | ± 15.31 |
| Alk - CaCO3           | 305   | 297   | 300   | 300.67  | ± 4.04  |
| pH (std units)        | 8.14  | 8.44  | 8.54  | 8.37    | ± 0.21  |

TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | 0.001  | 0.001  | <0.001 | ≤0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.93   | 0.92   | 0.81   | 0.89   | ± 0.07  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | 0.01   | ≤0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.02   | 0.02   | 0.01   | 0.02   | ± 0.01  |

RADIO-METRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0213 | 0.0249 | 0.0260 | 0.0241 | ± 0.0025 |
| Ra226 (pCi/l) | 218    | 182    | 196    | 198.63 | ± 18.15  |
| Ra Prec. ±    | 5.5    | 5.7    | 4.6    | 5.27   | ± 0.59   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 18.70 | 18.67 | 18.61 |  |  |
| Cation meq:      | 18.59 | 18.96 | 18.57 |  |  |
| A/C Balance:     | 1.006 | 0.995 | 1.002 |  |  |
| Calc TDS mg/l:   | 1170  | 1177  | 1161  |  |  |
| TDS A/C Bal:     | 0.991 | 1.005 | 0.986 |  |  |
| Calc Dil. Cond.: | 2122  | 2150  | 2125  |  |  |
| Dil. Cond. Bal:  | 1.003 | 1.004 | 1.005 |  |  |



ENERGY LABORATORIES, INC.

P. O. BOX 3258 · CASPER WY 82602 · PHONE (307) 235-0515  
254 NORTH CENTER SUITE 100 · CASPER WY 82601 · FAX (307) 234-1639

FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | CM1-10   | CM1-10   | CM1-10   |      |           |
|--------------------|----------|----------|----------|------|-----------|
| Sample Date:       | 10-16-90 | 10-31-90 | 11-16-90 |      |           |
| Report Date:       | 11-30-90 | 11-23-90 | 11-30-90 | Mean | Standard  |
| Laboratory I.D. #: | 90-25992 | 90-29548 | 90-29845 |      | Deviation |

MAJOR IONS mg/l:

|                       |       |       |       |         |          |
|-----------------------|-------|-------|-------|---------|----------|
| Ca                    | 15.0  | 14.0  | 16.4  | 15.13   | ± 1.21   |
| Mg                    | 3.1   | 3.0   | 3.8   | 3.30    | ± 0.44   |
| Na                    | 420   | 480   | 420   | 440.00  | ± 34.64  |
| K                     | 13.0  | 13.0  | 12.8  | 12.93   | ± 0.12   |
| CO3                   | 6.6   | 8.4   | 6.3   | 7.10    | ± 1.14   |
| HCO3                  | 357   | 289   | 336   | 327.33  | ± 34.82  |
| SO4                   | 358   | 334   | 340   | 344.00  | ± 12.49  |
| Cl                    | 210   | 324   | 255   | 263.00  | ± 57.42  |
| NH4                   | 0.29  | 0.35  | 0.33  | 0.32    | ± 0.03   |
| NO2                   | <0.01 | <0.01 | 0.02  | ≤0.01   | ± 0.01   |
| NO3                   | 0.11  | <0.01 | <0.01 | ≤0.04   | ± 0.06   |
| F                     | 0.59  | 0.57  | 0.78  | 0.65    | ± 0.12   |
| SiO2                  | 17.3  | 19.3  | 15.7  | 17.43   | ± 1.80   |
| TDS @ 180 C           | 1167  | 1329  | 1225  | 1240.33 | ± 82.08  |
| Cond (umho/cm)        | 2031  | 2342  | 2098  | 2157.00 | ± 163.68 |
| Dilute Cond (umho/cm) | 2222  | 2534  | 2227  | 2327.67 | ± 178.71 |
| Alk - CaCO3           | 304   | 251   | 286   | 280.33  | ± 26.95  |
| pH (std units)        | 8.60  | 8.80  | 8.61  | 8.67    | ± 0.11   |

TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.90   | 0.92   | 1.00   | 0.94   | ± 0.05  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | 0.02   | <0.01  | ≤0.01  | ± 0.01  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.01   | 0.04   | <0.01  | ≤0.02  | ± 0.02  |

RADIOMETRIC:

|                |        |        |        |        |          |
|----------------|--------|--------|--------|--------|----------|
| U (mg/l)       | 0.0165 | 0.0197 | 0.0260 | 0.0207 | ± 0.0048 |
| Ra226 (pCi/..) | 28.1   | 24.6   | 14.9   | 22.53  | ± 6.84   |
| Ra Prec. ±     | 1.2    | 2.1    | 1.1    | 1.47   | ± 0.55   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 19.49 | 21.13 | 20.03 |  |  |
| Cation meq:      | 19.64 | 22.20 | 19.77 |  |  |
| A/C Balance:     | 0.992 | 0.952 | 1.013 |  |  |
| Calc TDS mg/l:   | 1223  | 1342  | 1240  |  |  |
| TDS A/C Bal:     | 0.954 | 0.991 | 0.988 |  |  |
| Calc Dil. Cond.: | 2244  | 2532  | 2303  |  |  |
| Dil. Cond. Bal:  | 0.990 | 1.001 | 0.967 |  |  |



## ENERGY LABORATORIES, INC.

P. O. BOX 3258 · CASPER, WY 82402 · PHONE (307) 235-0515  
254 NORTH CENTER SUITE 100 · CASPER, WY 82601 · FAX (307) 234-1639FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT

|                    |          |          |          |      |           |
|--------------------|----------|----------|----------|------|-----------|
| Sample I.D.:       | CM1-11   | CM1-11   | CM1-11   |      |           |
| Sample Date:       | 10-16-90 | 10-31-90 | 11-16-90 |      |           |
| Report Date:       | 11-30-90 | 11-23-90 | 11-30-90 | Mean | Standard  |
| Laboratory I.D. #: | 90-25994 | 90-29547 | 90-29844 |      | Deviation |

## MAJOR IONS mg/l:

|                         |       |       |       |         |         |
|-------------------------|-------|-------|-------|---------|---------|
| Ca                      | 15.0  | 16.0  | 20.4  | 17.13   | ± 2.87  |
| Mg                      | 3.6   | 4.1   | 4.6   | 4.10    | ± 0.50  |
| Na                      | 390   | 410   | 385   | 395.00  | ± 13.23 |
| K                       | 12.0  | 13.0  | 12.6  | 12.53   | ± 0.50  |
| CO <sub>3</sub>         | 0     | 6.1   | 5.3   | 3.80    | ± 3.32  |
| HCO <sub>3</sub>        | 338   | 322   | 345   | 335.00  | ± 11.79 |
| SO <sub>4</sub>         | 380   | 379   | 360   | 373.00  | ± 11.27 |
| Cl                      | 186   | 189   | 186   | 187.00  | ± 1.73  |
| NH <sub>4</sub>         | 0.24  | 0.28  | 0.33  | 0.28    | ± 0.05  |
| NO <sub>2</sub>         | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00  |
| NO <sub>3</sub>         | 0.02  | <0.01 | <0.01 | ≤0.01   | ± 0.01  |
| F                       | 0.64  | 0.62  | 0.72  | 0.66    | ± 0.05  |
| SiO <sub>2</sub>        | 18.0  | 18.4  | 14.7  | 17.03   | ± 2.03  |
| TDS @ 180 C             | 1137  | 1198  | 1135  | 1173.33 | ± 32.13 |
| Cond (umho/cm)          | 1941  | 2015  | 1919  | 1958.33 | ± 50.29 |
| Dilute Cond (umho/cm)   | 2174  | 2180  | 2210  | 2171.33 | ± 43.65 |
| Alk - CaCO <sub>3</sub> | 277   | 274   | 292   | 281.00  | ± 9.64  |
| pH (std units)          | 8.11  | 8.49  | 8.52  | 8.37    | ± 0.23  |

## TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | 0.001  | <0.001 | <0.001 | ≤0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.91   | 0.91   | 0.92   | 0.91   | ± 0.01  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.01   | <0.01  | 0.02   | ≤0.01  | ± 0.01  |

## RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0343 | 0.0228 | 0.0510 | 0.0360 | ± 0.0142 |
| Ra226 (pCi/l) | 19.0   | 18.8   | 15.7   | 17.83  | ± 1.85   |
| Ra Prec. ±    | 0.9    | 1.0    | 1.1    | 1.00   | ± 0.10   |

## QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 18.73 | 18.74 | 18.61 |  |  |
| Cation meq:      | 18.35 | 19.34 | 18.51 |  |  |
| A/C Balance:     | 1.021 | 0.969 | 1.006 |  |  |
| Calc TDS mg/l:   | 1175  | 1198  | 1163  |  |  |
| TDS A/C Bal:     | 0.968 | 1.000 | 1.019 |  |  |
| Calc Dil. Cond.: | 2130  | 2190  | 2128  |  |  |
| Dil. Cond. Bal:  | 0.997 | 0.995 | 1.039 |  |  |

WELLS USED TO ESTABLISH RESTORATION PARAMETERS

| Well Number | Formation | Dates Sampled | Number of Analyses |
|-------------|-----------|---------------|--------------------|
| -----       | -----     | -----         | -----              |
| PT-5        | Chadron   | 1985          | 4                  |
| PT-9        | Chadron   | 1982-1984     | 7                  |
| PM-1        | Chadron   | 1982-1990     | 25                 |
| PM-4        | Chadron   | 1982-1990     | 25                 |
| PM-5        | Chadron   | 1985-1990     | 19                 |
| IJ-6        | Chadron   | 1990          | 3                  |
| IJ-13       | Chadron   | 1990          | 3                  |
| IJ-25       | Chadron   | 1990          | 3                  |
| IJ-28       | Chadron   | 1990          | 3                  |
| IJ-45       | Chadron   | 1990          | 3                  |
| PR-15       | Chadron   | 1990          | 3                  |
| PR-19       | Chadron   | 1990          | 3                  |

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Sample Number: PT-5  
Sample Type: INJECTION/RECOVERY WELL  
Formation: CHADRON

Surface Elevation: 3862 EST. ft.  
Well Depth: 670 ft.  
Distance from Wellfield: 0 ft.

SAMPLE RESULTS

| Sample date | 11-85 | 11-85 | 11-85 | 12-85 |
|-------------|-------|-------|-------|-------|
| Laboratory  | ELI   | WAMCO | ELI   | ELI   |

All values in mg/l unless noted

|                      |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| Calcium              | 5.7   | 7     | 9.4   | 10.8  |
| Magnesium            | 1.4   | 3     | 2.38  | 2.6   |
| Sodium               | 499   | 492   | 445   | 423   |
| Potassium            | 14.1  | 17    | 15.8  | 14.8  |
| Carbonate            | 13.6  | 24    | 9.4   | 22.6  |
| Bicarbonate          | 293.6 | 269   | 334.8 | 323.7 |
| Sulfate              | 343   | 290   | 341   | 348   |
| Chloride             | 371   | 395   | 266   | 234   |
| Ammonia-N            | 0.38  | 0.57  | 0.38  | 0.22  |
| Nitrite-N            | <.001 | 0.001 | <.001 | <.001 |
| Nitrate-N            | 0.03  | <0.05 | 0.07  | <0.01 |
| Fluoride             | 0.64  | 0.99  | 0.70  | 0.66  |
| Silica(as SiO2)      | 10.1  | 12.05 | 12.5  | 11.0  |
| TDS-180°C            | 1388  | 1420  | 1226  | 1172  |
| Conductivity (µmhos) | 2249  | 2400  | 1992  | 1903  |
| Alkalinity(as CaCO3) | 263.4 | 260   | 290.1 | 303.0 |
| pH (standard units)  | 8.72  | 8.36  | 8.52  | 8.54  |
| on Balance           | 1.02  | 1.00  | 1.00  | 1.02  |
| TDS Balance          | 0.99  | 1.04  | 0.96  | 0.95  |
| Cond. Balance        | 1.01  | 1.05  | 0.98  | 0.96  |

All values in µg/l unless noted

|                   |           |        |         |          |
|-------------------|-----------|--------|---------|----------|
| Aluminum          | NA        | NA     | NA      | NA       |
| Arsenic           | 2         | <10    | <1      | <1       |
| Barium            | <100      | <100   | <100    | <100     |
| Boron             | 720       | 930    | 870     | 1020     |
| Cadmium           | <1        | 1      | <1      | <1       |
| Chromium          | <5        | <5     | <5      | <5       |
| Cobalt            | NA        | NA     | NA      | NA       |
| Copper            | <10       | <10    | <10     | <10      |
| Iron              | <30       | <30    | <30     | <30      |
| Lead              | <5        | <5     | <5      | <5       |
| Manganese         | <5        | <10    | 8       | <5       |
| Mercury           | <0.2      | <0.2   | <0.2    | <0.2     |
| Molybdenum        | 10        | <10    | 10      | 20       |
| Nickel            | <10       | <10    | <10     | <10      |
| Selenium          | <1        | <1     | <1      | <1       |
| Vanadium          | <10       | <10    | <10     | <10      |
| Zinc              | 20        | 83     | 20      | <10      |
| Uranium (as U)    | 81        | 88     | 100     | 79       |
| Radium-226(pCi/l) | 408.2±7.9 | 260±19 | 612±9.9 | 591±11.5 |

FERRET EXPLORATION CO OF NEBRASKA  
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WATER QUALITY REPORT

Page No. 2 of 2

Sample Number: PT-5  
Sample Type: INJECTION/RECOVERY WELL  
Formation: CHADRON

Surface Elevation: 3862 EST. ft. M  
Well Depth: 670 ft.  
Distance from Wellfield: 0 ft.

SAMPLE SUMMARY

| PARAMETER | MINIMUM | MAXIMUM | MEAN | STD. DEVIATION |
|-----------|---------|---------|------|----------------|
|-----------|---------|---------|------|----------------|

All values in mg/l unless noted

|                      |       |       |         |         |
|----------------------|-------|-------|---------|---------|
| Calcium              | 5.7   | 10.8  | 8.225   | 2.301   |
| Magnesium            | 1.4   | 3     | 2.345   | .68     |
| Sodium               | 423   | 499   | 464.75  | 36.737  |
| Potassium            | 14.1  | 17    | 15.425  | 1.261   |
| Carbonate            | 9.4   | 24    | 17.4    | 7.048   |
| Bicarbonate          | 268   | 334.8 | 305.025 | 30.203  |
| Sulfate              | 290   | 348   | 330.5   | 27.16   |
| Chloride             | 234   | 395   | 316.5   | 78.505  |
| Ammonia-N            | 0.22  | 0.57  | .388    | .143    |
| Nitrite-N            | <.001 | <.001 | 1E-03   | 0       |
| Nitrate-N            | <0.01 | 0.07  | .04     | .026    |
| Fluoride             | 0.64  | 0.99  | .748    | .164    |
| Silica(as SiO2)      | 10.1  | 12.5  | 11.413  | 1.077   |
| TDS-180°C            | 1172  | 1420  | 1301.5  | 121.099 |
| Conductivity (µmhos) | 1903  | 2400  | 2136    | 229.122 |
| Alkalinity(as CaCO3) | 260   | 303.0 | 279.125 | 20.845  |
| pH (standard units)  | 8.36  | 8.72  | 8.535   | .147    |
| Ion Balance          |       |       |         |         |
| TDS Balance          |       |       |         |         |
| Cond. Balance        |       |       |         |         |

All values in µg/l unless noted

|                   |      |      |       |         |
|-------------------|------|------|-------|---------|
| Aluminum          |      |      |       |         |
| Arsenic           | <1   | <10  | 3.5   | 4.359   |
| Barium            | <100 | <100 | 100   | 0       |
| Boron             | 720  | 1020 | 885   | 126.095 |
| Cadmium           | <1   | <1   | 1     | 0       |
| Chromium          | <5   | <5   | 5     | 0       |
| Cobalt            |      |      |       |         |
| Copper            | <10  | <10  | 10    | 0       |
| Iron              | <30  | <30  | 30    | 0       |
| Lead              | <5   | <5   | 5     | 0       |
| Manganese         | <5   | <10  | 7     | 2.449   |
| Mercury           | <0.2 | <0.2 | .2    | 0       |
| Molybdenum        | 10   | 20   | 12.5  | 5       |
| Nickel            | <10  | <10  | 10    | 0       |
| Selenium          | <1   | <1   | 1     | 0       |
| Vanadium          | <10  | <10  | 10    | 0       |
| Zinc              | <10  | 87   | 33.25 | 33.3    |
| Uranium (as U)    | 79   | 100  | 87    | 3.467   |
| Radium-226(pCi/l) | 260  | 312  | 457.8 | 166.037 |

FERRET EXPLORATION CO OF NEBRASKA  
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WATER QUALITY REPORT

Page No. 1 of 3

Sample Number: FI-9  
Sample Type: R&D BASELINE WELL  
Formation: CHADRON

Surface Elevation: 3866.6 ft. MSL  
Well Depth: 680.2 ft.  
Distance from Wellfield: 0 ft.

SAMPLE RESULTS

| Sample date                        | 12-82 | 01-83 | 04-83 | 07-83 | 10-83 | 01-84 |
|------------------------------------|-------|-------|-------|-------|-------|-------|
| Laboratory                         | JORDN | NRL   | CORE  | CORE  | CORE  | CORE  |
| All values in mg/l unless not'd    |       |       |       |       |       |       |
| Calcium                            | 17    | 15    | 14    | 12    | 12    | 10    |
| Magnesium                          | 2.8   | 2.5   | 2     | 1.57  | 2.1   | 1.91  |
| Sodium                             | 408   | 390   | 420   | 400   | 400   | 420   |
| Potassium                          | 13    | 13    | 12    | 15    | 15    | 13    |
| Carbonate                          | 23    | 17    | <1    | <1    | 16    | 15    |
| Bicarbonate                        | 353   | 350   | 379   | 365   | 357   | 361   |
| Sulfate                            | 355   | 350   | 353   | 367   | 337   | 367   |
| Chloride                           | 190   | 180   | 184.8 | 190   | 184.4 | 181   |
| Ammonia-N                          | 0.82  | 0.40  | 0.45  | 0.41  | 0.18  | 0.26  |
| Nitrite-N                          | <0.01 | <0.01 | 0.01  | <0.01 | 0.01  | <0.01 |
| Nitrate-N                          | <0.01 | <0.01 | <0.1  | 0.1   | <0.1  | <0.1  |
| Fluoride                           | 0.69  | 0.7   | 0.7   | 0.5   | 0.6   | 0.7   |
| Silica (as SiO <sub>2</sub> )      | 13    | 14    | 21    | 17    | 15    | 17    |
| TDS-180°C                          | 1240  | 1200  | 1162  | 1156  | 1157  | 1185  |
| Conductivity (µmhos)               | 1900  | 1820  | 1590  | 1970  | 1970  | 1990  |
| Alkalinity (as CaCO <sub>3</sub> ) | 327   | 320   | 323   | 310   | 331   | 336   |
| H (standard units)                 | 8.82  | 8.8   | 8.41  | 8.29  | 8.56  | 8.65  |
| on Balance                         | 0.99  | 1.02  | N/A   | 0.99  | 1.01  | 1.00  |
| TDS Balance                        | 1.03  | 1.11  | N/A   | 0.97  | 1.00  | 0.98  |
| Cond. Balance                      | 1.01  | 1.00  | N/A   | 1.01  | 1.00  | 1.04  |

All values in µg/l unless noted

|                     |       |         |         |         |       |       |
|---------------------|-------|---------|---------|---------|-------|-------|
| Aluminum            | N/A   | 100     | <100    | <100    | 300   |       |
| Arsenic             | 14    | 7       | <10     | <5      | <5    |       |
| Barium              | 100   | <100    | <100    | <100    | <100  |       |
| Boron               | 990   | 700     | 960     | 860     | 1000  |       |
| Cadmium             | <0.1  | <1      | <10     | <1      | <1    |       |
| Chromium            | <1    | <1      | N/A     | <5      | <5    |       |
| Cobalt              | N/A   | <1      | <50     | <5      | <5    |       |
| Copper              | 4     | 5       | <10     | <10     | <10   |       |
| Iron                | 20    | <50     | <50     | <30     | 90    |       |
| Lead                | <1    | <5      | 20      | <5      | <5    |       |
| Manganese           | 8     | <100    | <10     | <5      | 6     |       |
| Mercury             | <0.1  | <0.1    | <0.3    | <0.2    | <0.2  |       |
| Molybdenum          | 50    | 75      | <100    | <10     | 10    |       |
| Nickel              | <10   | <2      | <50     | <10     | <10   |       |
| Selenium            | <1    | <2      | <10     | <1      | 1     |       |
| Vanadium            | 30    | 25      | <100    | 30      | 30    |       |
| Zinc                | 8     | <5      | 40      | <10     | <10   |       |
| Uranium (as U)      | 441   | 390     | 305     | 280     | 254   | 229   |
| Uranium-226 (pCi/l) | 602±2 | 207±5.0 | 491±4.5 | 369±3.2 | 543±7 | 267±4 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

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Sample Number: PT-9  
Sample Type: R&D BASELINE WELL  
Formation: CHADRON

Surface Elevation: 3868.6 ft. MSL  
Well Depth: 680.2 ft.  
Distance from Wellfield: 0 ft.

SAMPLE RESULTS

Sample date 04-84  
Laboratory CORE  
All values in mg/l unless noted

|                      |       |
|----------------------|-------|
| Calcium              | 11    |
| Magnesium            | 2     |
| Sodium               | 416   |
| Potassium            | 13    |
| Carbonate            | 24    |
| Bicarbonate          | 341   |
| Sulfate              | 333   |
| Chloride             | 196   |
| Ammonia-N            | 0.58  |
| Nitrite-N            | <0.01 |
| Nitrate-N            | <0.1  |
| Fluoride             | 0.60  |
| Silica(as SiO2)      | 16.0  |
| TDS-180°C            | 1134  |
| Conductivity (µmhos) | 1820  |
| Alkalinity(as CaCO3) | 320   |
| pH (standard units)  | 8.7   |
| Ion Balance          | 1.02  |
| TDS Balance          | 0.98  |
| Cond. Balance        | 0.96  |

All values in µg/l unless noted

|                   |      |
|-------------------|------|
| Aluminum          | 130  |
| Arsenic           | <1   |
| Barium            | <100 |
| Boron             | 1150 |
| Cadmium           | <1   |
| Chromium          | <5   |
| Cobalt            | <5   |
| Copper            | 17   |
| Iron              | 37   |
| Lead              | <5   |
| Manganese         | <5   |
| Mercury           | 0.3  |
| Molybdenum        | 41   |
| Nickel            | <10  |
| Selenium          | <1   |
| Vanadium          | 30   |
| Zinc              | 21   |
| Uranium (as U)    | 229  |
| Radium-226(pCi/l) | 46±7 |

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WATER QUALITY REPORT

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Sample Number: PT-9  
Sample Type: R&D BASELINE WELL  
Formation: CHADRON

Surface Elevation: 3868.6 ft. MSL  
Well Depth: 680.2 ft.  
Distance from Wellfield: 0 ft.

SAMPLE SUMMARY

| PARAMETER | MINIMUM | MAXIMUM | MEAN | STD. DEVIATION |
|-----------|---------|---------|------|----------------|
|-----------|---------|---------|------|----------------|

All values in mg/l unless noted

|                                   |       |       |          |         |
|-----------------------------------|-------|-------|----------|---------|
| Calcium                           | 10    | 17    | 13       | 2.449   |
| Magnesium                         | 1.57  | 2.8   | 2.126    | .405    |
| Sodium                            | 390   | 420   | 407.714  | 11.572  |
| Potassium                         | 12    | 15    | 13.429   | 1.134   |
| Carbonate                         | <1    | 24    | 13.857   | 9.424   |
| Bicarbonate                       | 341   | 379   | 358      | 12.097  |
| Sulfate                           | 333   | 367   | 351.714  | 13.225  |
| Chloride                          | 180   | 196   | 186.6    | 5.693   |
| Ammonia-N                         | 0.18  | 0.82  | .443     | .211    |
| Nitrite-N                         | <0.01 | <0.01 | .01      | 0       |
| Nitrate-N                         | <0.01 | <0.1  | .074     | .044    |
| Fluoride                          | 0.6   | 0.7   | .656     | .052    |
| Silica(as SiO <sub>2</sub> )      | 13    | 21    | 16.143   | 2.61    |
| TDS-180°C                         | 1134  | 1240  | 1176.286 | 35.293  |
| Conductivity (µmhos)              | 1590  | 1990  | 1865.714 | 140.577 |
| Alkalinity(as CaCO <sub>3</sub> ) | 310   | 336   | 323.857  | 8.474   |
| pH (standard units)               | 8.29  | 8.82  | 8.604    | .198    |
| Ion Balance                       |       |       |          |         |
| TDS Balance                       |       |       |          |         |
| Cond. Balance                     |       |       |          |         |

All values in µg/l unless noted

|                   |      |      |         |         |
|-------------------|------|------|---------|---------|
| Aluminum          | 100  | 300  | 146     | 87.063  |
| Arsenic           | <1   | 14   | 7       | 4.517   |
| Barium            | 100  | 100  | 100     | 0       |
| Boron             | 700  | 1150 | 943.333 | 151.349 |
| Cadmium           | <0.1 | <10  | 2.35    | 3.765   |
| Chromium          | <1   | <5   | 3.4     | 2.191   |
| Cobalt            | <1   | <50  | 13.2    | 20.645  |
| Copper            | 4    | 17   | 9.333   | 4.633   |
| Iron              | 20   | 90   | 46.167  | 24.417  |
| Lead              | <1   | 20   | 6.833   | 6.646   |
| Manganese         | <5   | <100 | 22.333  | 38.098  |
| Mercury           | <0.1 | <0.3 | .2      | .089    |
| Molybdenum        | <10  | <100 | 47.667  | 35.702  |
| Nickel            | <2   | <50  | 15.333  | 17.282  |
| Selenium          | <1   | 10   | 2.667   | 3.615   |
| Vanadium          | 25   | <100 | 40.833  | 29.055  |
| Zinc              | <5   | 40   | 15.667  | 13.095  |
| Uranium (as U)    | 229  | 441  | 304     | 82.15   |
| Radium-226(pCi/l) | 297  | 602  | 420.429 | 146.263 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

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Sample Number: PM-1  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3877.1 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 220 ft.

SAMPLE RESULTS

| Sample date                       | 12-82 | 01-83 | 04-83 | 07-83 | 10-83 | 01-84 |
|-----------------------------------|-------|-------|-------|-------|-------|-------|
| Laboratory                        | JORDN | NRL   | CORE  | CORE  | CORE  | CORE  |
| All values in mg/l unless noted   |       |       |       |       |       |       |
| Calcium                           | 17    | 13    | 12    | 14    | 12    | 11    |
| Magnesium                         | 2.9   | 2.2   | 1.9   | 2.17  | 2.5   | 2.8   |
| Sodium                            | 417   | 410   | 440   | 410   | 420   | 420   |
| Potassium                         | 13    | 16    | 18    | 17    | 18    | 16    |
| Carbonate                         | 13    | 12    | <1    | <1    | 12    | 5     |
| Bicarbonate                       | 368   | 370   | 376   | 374   | 378   | 387   |
| Sulfate                           | 358   | 380   | 361   | 365   | 351   | 363   |
| Chloride                          | 208   | 210   | 215.1 | 199   | 193.7 | 188   |
| Ammonia-N                         | 0.48  | 0.28  | 0.39  | 0.25  | 0.10  | 0.17  |
| Nitrite-N                         | 0.02  | <0.01 | 0.01  | <0.01 | <0.01 | <0.01 |
| Nitrate-N                         | <0.01 | <0.01 | <0.1  | <0.1  | <0.1  | <0.1  |
| Fluoride                          | 0.67  | 0.6   | 0.7   | 0.8   | 0.5   | 0.5   |
| Silica(as SiO <sub>2</sub> )      | 15    | 14    | 14    | 16    | 14    | 15    |
| TDS-180°C                         | 1260  | 1200  | 1226  | 1199  | 1223  | 1200  |
| Conductivity (µmhos)              | 1940  | 1930  | 1825  | 1970  | 2040  | 2000  |
| Alkalinity(as CaCO <sub>3</sub> ) | 324   | 330   | 320   | 321   | 339   | 342   |
| pH (standard units)               | 8.61  | 8.7   | 8.42  | 8.25  | 8.42  | 8.35  |
| Ion Balance                       | 0.99  | 1.07  | N/A   | 1.00  | 1.02  | 1.00  |
| TDS Balance                       | 1.03  | 1.19  | N/A   | 0.99  | 1.01  | 0.99  |
| Cond. Balance                     | 1.02  | 1.01  | N/A   | 0.98  | 0.98  | 1.04  |

All values in µg/l unless noted

|                   |      |          |          |          |        |        |
|-------------------|------|----------|----------|----------|--------|--------|
| Aluminum          | N/A  | <100     | <100     | <100     | <100   |        |
| Arsenic           | 1    | <2       | <10      | <5       | <5     |        |
| Barium            | 50   | <100     | <100     | <100     | <100   |        |
| Boron             | 990  | 800      | 960      | 850      | 1060   |        |
| Cadmium           | <0.1 | <1       | <10      | <1       | <1     |        |
| Chromium          | <1   | <1       | N/A      | <5       | <5     |        |
| Cobalt            | N/A  | <1       | <50      | <5       | <5     |        |
| Copper            | 5    | 5        | <10      | <10      | <10    |        |
| Iron              | 20   | <50      | <50      | <30      | <30    |        |
| Lead              | <1   | <5       | <10      | <5       | <5     |        |
| Manganese         | 4    | <100     | <10      | <5       | <5     |        |
| Mercury           | <0.1 | <0.1     | <0.3     | <0.2     | <0.2   |        |
| Molybdenum        | 20   | 24       | <100     | <10      | <10    |        |
| Nickel            | <10  | <2       | <50      | <10      | <10    |        |
| Selenium          | <1   | <2       | <10      | <1       | <1     |        |
| Vanadium          | <10  | 6        | <100     | <10      | <10    |        |
| Zinc              | 12   | <5       | <10      | <10      | <10    |        |
| Uranium (as U)    | 85   | 81       | 54       | 33       | 36     | 34     |
| Sodium-226(pCi/l) | 99±1 | 47.6±1.0 | 43.4±1.4 | 50.7±1.5 | 40±1.0 | 45±1.0 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 2 of 6

Sample Number: PM-1  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3677.1 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 220 ft.

SAMPLE RESULTS

| Sample date | 04-84 | 12-85 | 07-86 | 10-86 | 01-87 | 04-87 |
|-------------|-------|-------|-------|-------|-------|-------|
| Laboratory  | CORE  | ELI   | ELI   | ELI   | ELI   | ELI   |

All values in mg/l unless noted

|                      |       |       |       |       |       |      |
|----------------------|-------|-------|-------|-------|-------|------|
| Calcium              | 12    | 14.8  | 15.4  | 15.1  | 16.6  | 16.5 |
| Magnesium            | 3     | 3.3   | 4.1   | 3.3   | 3.7   | 4.1  |
| Sodium               | 419   | 393   | 397   | 387   | 398   | 388  |
| Potassium            | 15    | 11.7  | 10.5  | 9.6   | 9.8   | 11.7 |
| Carbonate            | 12    | 3.3   | 0     | 0     | 0     | 4.2  |
| Bicarbonate          | 378   | 357.2 | 371   | 363   | 357   | 339  |
| Sulfate              | 330   | 354   | 363   | 332   | 363   | 368  |
| Chloride             | 194   | 180   | 176   | 182   | 187   | 173  |
| Ammonia-N            | 0.71  | 0.20  | 0.39  | 0.39  | 0.42  | 0.45 |
| Nitrite-N            | <0.01 | <0.01 | <0.01 | <0.01 | 0.002 | 0.01 |
| Nitrate-N            | <0.1  | <0.01 | 0.01  | 0.03  | 0.01  | 0.01 |
| Fluoride             | 0.48  | 0.57  | 0.66  | 0.62  | 0.65  | 0.58 |
| Silica(as SiO2)      | 16.5  | 14.2  | 13.4  | 13.1  | 12.1  | 12.8 |
| TDS-180°C            | 1168  | 1154  | 1186  | 1134  | 1178  | 1146 |
| Conductivity (µmhos) | 1830  | 1853  | 1844  | 1881  | 1886  | 1881 |
| Alkalinity(as CaCO3) | 330   | 298.3 | 304   | 297   | 292   | 285  |
| pH (standard units)  | 8.2   | 8.38  | 8.15  | 8.17  | 8.22  | 8.43 |
| Ion Balance          | 1.03  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 |
| TDS Balance          | 1.00  | 1.00  | 1.02  | 1.01  | 1.01  | 1.00 |
| Cond. Balance        | 1.03  | 0.98  | 1.05  | 1.00  | 0.99  | 0.99 |

All values in µg/l unless noted

|                   |      |           |           |           |           |           |
|-------------------|------|-----------|-----------|-----------|-----------|-----------|
| Aluminum          | 170  | NA        | <100      | <100      | <100      | <100      |
| Arsenic           | <4   | <1        | <1        | <1        | <1        | <1        |
| Barium            | <100 | <100      | <100      | <100      | <100      | <100      |
| Boron             | 1040 | 1030      | 900       | 910       | 920       | 960       |
| Cadmium           | 2    | <1        | <1        | <1        | <1        | <1        |
| Chromium          | 5    | <5        | <5        | <5        | <5        | <5        |
| Cobalt            | <5   | NA        | NA        | NA        | NA        | NA        |
| Copper            | 10   | <10       | <10       | <10       | <10       | <10       |
| Iron              | 90   | <30       | <30       | <30       | <30       | <30       |
| Lead              | <5   | <5        | <5        | <5        | 9         | <5        |
| Manganese         | <5   | 7         | 7         | 7         | 8         | 8         |
| Mercury           | 0.3  | <0.2      | <0.2      | <0.2      | <0.2      | <0.2      |
| Molybdenum        | 20   | 20        | 20        | 10        | 20        | 20        |
| Nickel            | <10  | <10       | <10       | <10       | <10       | <10       |
| Selenium          | <1   | <1        | 1         | <1        | <1        | <1        |
| Vanadium          | 7    | <10       | <10       | <10       | <10       | <10       |
| Zinc              | 20   | <10       | 110       | 200       | 180       | 160       |
| Uranium (as U)    | 41   | 35        | 51        | 20        | 106       | 32        |
| Radium-226(pCi/l) | 62±0 | 144.2±3.9 | 144.9±4.4 | 163.5±4.9 | 148.7±3.8 | 152.9±3.6 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

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Sample Number: PM-1  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3877.1 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 220 ft.

SAMPLE RESULTS

| Sample date                       | 07-87 | 10-87 | 01-88 | 04-88 | 07-88 | 10-88 |
|-----------------------------------|-------|-------|-------|-------|-------|-------|
| Laboratory                        | ELI   | ELI   | ELI   | ELI   | ELI   | ELI   |
| All values in mg/l unless noted   |       |       |       |       |       |       |
| Calcium                           | 13.3  | 13.1  | 15.4  | 14.4  | 15.2  | 14.7  |
| Magnesium                         | 4.2   | 3.8   | 4.1   | 3.9   | 3.8   | 3.2   |
| Sodium                            | 413   | 406   | 397   | 390   | 398   | 388   |
| Potassium                         | 11.5  | 11.8  | 11.6  | 11.0  | 11.6  | 11.7  |
| Carbonate                         | 0     | 0     | 0     | 4.2   | 0     | 0     |
| Bicarbonate                       | 373   | 380   | 380   | 362   | 376   | 361   |
| Sulfate                           | 348   | 357   | 348   | 358   | 363   | 353   |
| Chloride                          | 203   | 181   | 185   | 175   | 182   | 181   |
| Ammonia-N                         | 0.41  | 0.43  | 0.44  | 0.42  | 0.42  | 0.35  |
| Nitrite-N                         | 0.003 | 0.005 | 0.005 | 0.006 | 0.006 | 0.005 |
| Nitrate-N                         | 0.02  | <0.01 | 0.02  | <0.01 | 0.01  | 0.01  |
| Fluoride                          | 0.75  | 0.75  | 0.79  | 0.62  | 0.63  | 0.56  |
| Silica(as SiO <sub>2</sub> )      | 12.8  | 12.4  | 12.8  | 12.8  | 10.7  | 9.8   |
| TDS-180°C                         | 1176  | 1180  | 1124  | 1128  | 1136  | 1102  |
| Conductivity (µmhos)              | 1847  | 1795  | 1883  | 1921  | 1927  | 1936  |
| Alkalinity(as CaCO <sub>3</sub> ) | 306   | 312   | 312   | 304   | 308   | 296   |
| pH (standard units)               | 8.13  | 8.17  | 8.07  | 8.40  | 8.32  | 7.96  |
| Ion Balance                       | 0.99  | 0.99  | 1.00  | 1.01  | 1.01  | 1.01  |
| TDS Balance                       | 0.99  | 1.00  | 0.97  | 0.90  | 0.97  | 0.96  |
| Cond. Balance                     | 1.01  | 1.01  | 1.05  | 1.00  | 1.00  | 0.99  |

All values in µg/l unless noted

|                   |           |           |         |         |          |          |
|-------------------|-----------|-----------|---------|---------|----------|----------|
| Aluminum          | <100      | <100      | NA      | <100    | <100     | <100     |
| Arsenic           | <1        | <1        | <1      | <1      | <1       | 1        |
| Barium            | <100      | <100      | <100    | <100    | <100     | <100     |
| Boron             | 910       | 890       | 910     | 960     | 770      | 870      |
| Cadmium           | <1        | <1        | <1      | <1      | <1       | <1       |
| Chromium          | <5        | <5        | <5      | <5      | <5       | <5       |
| Cobalt            | NA        | NA        | NA      | NA      | NA       | NA       |
| Copper            | <10       | <10       | <10     | <10     | <10      | <10      |
| Iron              | <30       | <30       | 40      | <30     | <30      | <30      |
| Lead              | <5        | <5        | <5      | <5      | 7        | <5       |
| Manganese         | 9         | <5        | 9       | 7       | 8        | 9        |
| Mercury           | <0.2      | <0.2      | <0.2    | <0.2    | <0.2     | <0.2     |
| Molybdenum        | 20        | 20        | 20      | 20      | 20       | 20       |
| Nickel            | <10       | <10       | <10     | <10     | <10      | <10      |
| Selenium          | <1        | <1        | <1      | <1      | <1       | <1       |
| Vanadium          | <10       | <10       | <10     | <10     | <10      | <10      |
| Zinc              | 150       | 130       | 120     | 110     | 120      | 120      |
| Uranium (as U)    | 33        | 49.9      | 52.5    | 38.4    | 34.0     | 52.2     |
| Radium-226(pCi/l) | 142.5±3.3 | 147.0±2.9 | 171±3.5 | 167±9.6 | 185±19.7 | 179±21.4 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
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Sample Number: PH-1  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3877.1 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 220 ft.

SAMPLE RESULTS

| Sample date | 02-89 | 04-89 | 07-89 | 10-89 | 01-90 | 04-90 |
|-------------|-------|-------|-------|-------|-------|-------|
| Laboratory  | ELI   | ELI   | ELI   | ELI   | ELI   | ELI   |

All values in mg/l unless noted

|                                    |       |       |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|-------|-------|
| Calcium                            | 17.0  | 16.0  | 16.0  | 14.7  | 15.6  | 16.6  |
| Magnesium                          | 4.3   | 3.9   | 4.2   | 4.3   | 4.2   | 4.2   |
| Sodium                             | 390   | 393   | 396   | 404   | 395   | 396   |
| Potassium                          | 11.4  | 11.0  | 12.5  | 15.3  | 11.6  | 11.5  |
| Carbonate                          | 0     | 0     | 0     | 0     | 0     | 0     |
| Bicarbonate                        | 365   | 363   | 376   | 376   | 383   | 387   |
| Sulfate                            | 363   | 358   | 371   | 350   | 344   | 341   |
| Chloride                           | 180   | 179   | 176   | 183   | 181   | 180   |
| Ammonia-N                          | 0.38  | 0.42  | 0.43  | 0.43  | 0.39  | 0.49  |
| Nitrite-N                          | 0.006 | 0.004 | 0.004 | 0.065 | 0.001 | 0.008 |
| Nitrate-N                          | 0.05  | 0.01  | 0.01  | 0.13  | 0.01  | 0.13  |
| Fluoride                           | 0.62  | 0.56  | 0.58  | 0.57  | 0.80  | 0.57  |
| Silica (as SiO <sub>2</sub> )      | 13.1  | 12.4  | 12.2  | 13.1  | 13.1  | 12.0  |
| TDS-180°C                          | 1082  | 1086  | 1097  | 1142  | 1116  | 1089  |
| Conductivity (µmhos)               | 1839  | 1843  | 1878  | 1868  | 1948  | 1920  |
| Alkalinity (as CaCO <sub>3</sub> ) | 299   | 298   | 308   | 308   | 314   | 317   |
| pH (standard units)                | 8.00  | 8.29  | 7.70  | 8.16  | 8.27  | 7.86  |
| Ion Balance                        | 1.01  | 1.00  | 1.01  | 0.98  | 1.00  | 0.99  |
| TDS Balance                        | 0.93  | 0.94  | 0.93  | 0.97  | 0.96  | 0.94  |
| Cond. Balance                      | 1.02  | 1.00  | 1.05  | 1.01  | 1.03  | 1.00  |

All values in µg/l unless noted

|                    |         |           |         |        |         |           |
|--------------------|---------|-----------|---------|--------|---------|-----------|
| Aluminum           | <100    | <100      | <100    | <100   | <100    | <100      |
| Arsenic            | <1      | <1        | <1      | <1     | <1      | <1        |
| Barium             | <100    | <100      | <100    | <100   | <100    | <100      |
| Boron              | 960     | 950       | 920     | 960    | 930     | 900       |
| Cadmium            | <1      | <1        | 1       | <1     | <1      | <1        |
| Chromium           | <5      | <5        | <5      | <5     | <5      | <5        |
| Cobalt             | NA      | NA        | NA      | NA     | NA      | NA        |
| Copper             | <10     | <10       | <10     | <10    | <10     | <10       |
| Iron               | 30      | <30       | <30     | <30    | <30     | <30       |
| Lead               | <5      | <5        | <5      | <5     | <5      | <5        |
| Manganese          | 10      | 10        | 10      | 10     | 11      | 11        |
| Mercury            | <0.2    | <0.2      | 0.5     | <0.2   | <0.2    | <0.2      |
| Molybdenum         | 30      | 40        | 30      | <10    | 20      | 20        |
| Nickel             | <10     | <10       | <10     | <10    | <10     | <10       |
| Selenium           | <1      | <1        | <1      | <1     | <1      | <1        |
| Vanadium           | <10     | <10       | <10     | <10    | <10     | <10       |
| Zinc               | 140     | 130       | 140     | 180    | 150     | 170       |
| Uranium (as U)     | 48.2    | 35.9      | 57.0    | 47.5   | 42      | 4.4       |
| Radium-226 (pCi/l) | 183±2.9 | 139.3±2.6 | 162±6.0 | 17±4.6 | 154±4.8 | 148.7±4.5 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

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Sample Number: PM-1  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3877.1 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 220 ft.

SAMPLE RESULTS

Sample date 07-90  
Laboratory ELI  
All values in mg/l unless noted

|                      |       |
|----------------------|-------|
| Calcium              | 15.8  |
| Magnesium            | 4.2   |
| Sodium               | 397   |
| Potassium            | 12.2  |
| Carbonate            | 0     |
| Bicarbonate          | 359   |
| Sulfate              | 351   |
| Chloride             | 179   |
| Ammonia-N            | 0.28  |
| Nitrite-N            | <0.01 |
| Nitrate-N            | <0.10 |
| Fluoride             | 0.68  |
| Silica(as SiO2)      | 12.7  |
| TDS-180°C            | 1166  |
| Conductivity (µmhos) | 1950  |
| Alkalinity(as CaCO3) | 294   |
| pH (standard units)  | 7.96  |
| Ion Balance          | 0.98  |
| TDS Balance          | 1.01  |
| Cond. Balance        | 1.04  |

All values in µg/l unless noted

|                   |         |
|-------------------|---------|
| Aluminum          | <100    |
| Arsenic           | <1      |
| Barium            | <100    |
| Boron             | 930     |
| Cadmium           | <1      |
| Chromium          | <5      |
| Cobalt            | NA      |
| Copper            | <10     |
| Iron              | <30     |
| Lead              | <5      |
| Manganese         | 12      |
| Mercury           | <0.2    |
| Molybdenum        | 20      |
| Nickel            | <10     |
| Selenium          | <1      |
| Vanadium          | <10     |
| Zinc              | <10     |
| Uranium (as U)    | 68.4    |
| Radium-226(pCi/l) | 116±4.4 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

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Sample Number: PM-1  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3677.1 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 220 ft.

SAMPLE SUMMARY

| PARAMETER | MINIMUM | MAXIMUM | MEAN | STD. DEVIATION |
|-----------|---------|---------|------|----------------|
|-----------|---------|---------|------|----------------|

All values in mg/l unless noted

|                                    |       |       |         |        |
|------------------------------------|-------|-------|---------|--------|
| Calcium                            | 11    | 17    | 14.688  | 1.725  |
| Magnesium                          | 1.9   | 4.3   | 3.531   | .753   |
| Sodium                             | 387   | 440   | 402.48  | 13.172 |
| Potassium                          | 9.6   | 18    | 12.84   | 2.492  |
| Carbonate                          | <1    | 13    | 6.77    | 4.897  |
| Bicarbonate                        | 339   | 387   | 370.368 | 11.046 |
| Sulfate                            | 330   | 380   | 355.72  | 11.466 |
| Chloride                           | 173   | 215.1 | 186.832 | 11.706 |
| Ammonia-N                          | 0.10  | 0.71  | .381    | .12    |
| Nitrite-N                          | <.001 | 0.065 | .01     | .012   |
| Nitrate-N                          | <0.01 | 0.13  | .044    | .046   |
| Fluoride                           | 0.48  | 0.8   | .632    | .093   |
| Silica (as SiO <sub>2</sub> )      | 9.8   | 16.5  | 13.2    | 1.47   |
| TDS-180°C                          | 1082  | 1260  | 1155.92 | 47.602 |
| Conductivity (µmhos)               | 1795  | 2040  | 1897.4  | 59.122 |
| Alkalinity (as CaCO <sub>3</sub> ) | 285   | 342   | 310.332 | 14.754 |
| pH (standard units)                | 7.70  | 8.7   | 8.224   | .226   |
| Ion Balance                        |       |       |         |        |
| TDS Balance                        |       |       |         |        |
| Cond. Balance                      |       |       |         |        |

All values in µg/l unless noted

|                    |      |      |         |        |
|--------------------|------|------|---------|--------|
| Aluminum           | <100 | 170  | 103.333 | 15.275 |
| Arsenic            | 1    | <10  | 1.875   | 2.133  |
| Barium             | 50   | <100 | 97.917  | 10.206 |
| Boron              | 770  | 1060 | 928.333 | 67.481 |
| Cadmium            | <0.1 | <10  | 1.379   | 1.858  |
| Chromium           | <1   | <5   | 4.652   | 1.152  |
| Cobalt             | <1   | <50  | 13.2    | 20.645 |
| Copper             | 5    | <10  | 9.583   | 1.412  |
| Iron               | 20   | 90   | 34.167  | 13.486 |
| Lead               | <1   | <10  | 5.292   | 1.601  |
| Manganese          | 4    | <100 | 11.958  | 18.883 |
| Mercury            | <0.1 | 0.5  | .212    | .074   |
| Molybdenum         | <10  | <100 | 23.5    | 17.597 |
| Nickel             | <1   | <50  | 11.333  | 8.396  |
| Selenium           | <1   | <10  | 1.417   | 1.84   |
| Vanadium           | 5    | <100 | 13.458  | 18.46  |
| Zinc               | 5    | 200  | 100.292 | 68.756 |
| Strontium (as Sr)  | 4.4  | 1.6  | 51.093  | 20.694 |
| Radium-226 (pCi/l) | 40   | 196  | 119.103 | 50.781 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 1 of 6

Sample Number: PM-4  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3862.5 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 300 ft.

SAMPLE RESULTS

| Sample date | 12-82 | 01-83 | 04-83 | 07-83 | 10-83 | 01-84 |
|-------------|-------|-------|-------|-------|-------|-------|
| Laboratory  | JORDN | NRL   | CORE  | CORE  | CORE  | CORE  |

All values in mg/l unless noted

|                      |       |       |       |       |       |       |
|----------------------|-------|-------|-------|-------|-------|-------|
| Calcium              | 16    | 14    | 15    | 14    | 14    | 14    |
| Magnesium            | 3.5   | 3.3   | 3.1   | 2.85  | 3     | 3.4   |
| Sodium               | 408   | 390   | 410   | 390   | 400   | 410   |
| Potassium            | 11    | 11    | 10.2  | 11    | 13    | 14    |
| Carbonate            | 0     | 14    | <1    | <1    | <1    | <1    |
| Bicarbonate          | 386   | 360   | 379   | 370   | 399   | 385   |
| Sulfate              | 359   | 370   | 358   | 360   | 347   | 362   |
| Chloride             | 187   | 170   | 170.3 | 186   | 186.9 | 187   |
| Ammonia-N            | 0.49  | 0.46  | 0.37  | 0.30  | 0.06  | 0.19  |
| Nitrite-N            | <0.01 | <0.01 | 0.01  | <0.01 | <0.01 | <0.01 |
| Nitrate-N            | 0.02  | <0.01 | <0.1  | <0.1  | <0.1  | <0.1  |
| Fluoride             | 0.66  | 0.6   | 0.7   | 0.4   | 0.5   | 0.6   |
| Silica(as SiO2)      | 18    | 14    | 16    | 16    | 16    | 16    |
| TDS-180°C            | 1250  | 1100  | 1106  | 1209  | 1170  | 1175  |
| Conductivity (µmhos) | 1820  | 1790  | 1599  | 1880  | 1980  | 1950  |
| Alkalinity(as CaCO3) | 316   | 320   | 322   | 317   | 337   | 328   |
| pH (standard units)  | 8.26  | 8.6   | 8.05  | 8.09  | 6.3   | 8.24  |
| Ion Balance          | 1.01  | 1.04  | N/A   | 0.98  | 1.00  | 1.00  |
| TDS Balance          | 1.04  | 1.22  | N/A   | 1.04  | 0.99  | 0.98  |
| Cond. Balance        | 1.01  | 1.01  | N/A   | 0.97  | 1.02  | 0.99  |

All values in µg/l unless noted

|                    |      |          |          |        |        |        |
|--------------------|------|----------|----------|--------|--------|--------|
| Aluminum           | N/A  | <100     | <100     | <100   | <100   |        |
| Arsenic            | 1    | <2       | <10      | <5     | <5     |        |
| Barium             | 30   | <100     | <100     | <100   | <100   |        |
| Boron              | 1000 | 500      | 1000     | 870    | 1010   |        |
| Cadmium            | <0.1 | <1       | <10      | <1     | <1     |        |
| Chromium           | <1   | <1       | N/A      | <5     | <5     |        |
| Cobalt             | N/A  | <1       | <50      | <5     | <5     |        |
| Copper             | 4    | 4        | <10      | <10    | <10    |        |
| Iron               | 30   | <50      | <50      | 30     | 30     |        |
| Lead               | <1   | <5       | <10      | <5     | <5     |        |
| Manganese          | 14   | <100     | <10      | 10     | 5      |        |
| Mercury            | <0.1 | <0.1     | <0.3     | <0.2   | <0.2   |        |
| Molybdenum         | 20   | 23       | <100     | <10    | <10    |        |
| Nickel             | <10  | <2       | <50      | <10    | <10    |        |
| Selenium           | <1   | <2       | <10      | <1     | 2      |        |
| Vanadium           | 20   | 3        | <100     | <10    | <10    |        |
| Zinc               | 19   | 5        | <10      | <10    | 10     |        |
| Uranium (as U)     | 36   | 29       | 12       | 19     | 10     | 23     |
| Uranium-226(pCi/l) | 71±1 | 51.4±1.1 | 35.1±1.2 | 60±1.4 | 35±1.0 | 44±1.0 |

FERRET EXPLORATION CO OF NEBRASKA  
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WATER QUALITY REPORT

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Sample Number: PM-4  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3862.5 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 300 ft.

SAMPLE RESULTS

| Sample date | 04-84 | 12-85 | 07-86 | 10-86 | 01-87 | 04-87 |
|-------------|-------|-------|-------|-------|-------|-------|
| Laboratory  | CORE  | ELI   | ELI   | ELI   | ELI   | ELI   |

All values in mg/l unless noted

|                      |       |       |       |       |       |       |
|----------------------|-------|-------|-------|-------|-------|-------|
| Calcium              | 14    | 16.1  | 12.1  | 15.3  | 16.6  | 15.9  |
| Magnesium            | 3     | 3.3   | 3.2   | 3.1   | 3.7   | 4.0   |
| Sodium               | 408   | 393   | 404   | 399   | 395   | 392   |
| Potassium            | 12    | 11.3  | 10.2  | 9.2   | 9.9   | 12.0  |
| Carbonate            | 0     | 1.4   | 0     | 0     | 0     | 3.9   |
| Bicarbonate          | 390   | 364.9 | 371   | 361   | 358   | 338   |
| Sulfate              | 333   | 360   | 344   | 338   | 360   | 362   |
| Chloride             | 196   | 178   | 182   | 186   | 186   | 173   |
| Ammonia-N            | 0.48  | 0.26  | 0.43  | 0.43  | 0.46  | 0.47  |
| Nitrite-N            | <0.01 | <.001 | <0.01 | <0.01 | 0.002 | 0.007 |
| Nitrate-N            | <0.1  | <0.01 | 0.01  | <0.01 | 0.01  | <0.01 |
| fluoride             | 0.56  | 0.68  | 0.72  | 0.68  | 0.70  | 0.70  |
| Silica(as SiO2)      | 16.3  | 11.0  | 13.3  | 13.0  | 11.7  | 12.8  |
| TDS-180°C            | 1104  | 1120  | 1172  | 1118  | 1174  | 1144  |
| Conductivity (µmhos) | 1790  | 1818  | 1867  | 1881  | 1879  | 1881  |
| Alkalinity(as CaCO3) | 320   | 301.4 | 304   | 296   | 293   | 284   |
| pH (standard units)  | 8.1   | 8.32  | 8.09  | 8.07  | 8.20  | 8.40  |
| Ion Balance          | 1.01  | 1.01  | 0.98  | 0.98  | 1.00  | 1.01  |
| TDS Balance          | 0.95  | 0.97  | 1.02  | 0.98  | 1.01  | 1.05  |
| Cond. Balance        | 0.97  | 0.96  | 1.00  | 0.97  | 1.03  | 0.98  |

All values in µg/l unless noted

|                    |      |          |          |          |          |           |
|--------------------|------|----------|----------|----------|----------|-----------|
| Aluminum           | 120  | NA       | <100     | <100     | <100     | <100      |
| Arsenic            | <4   | <1       | <1       | <1       | <1       | 1         |
| Barium             | <100 | <100     | <100     | <100     | <100     | <100      |
| Boron              | 1040 | 1050     | 910      | 930      | 910      | 990       |
| Cadmium            | <1   | <1       | <1       | <1       | <1       | <1        |
| Chromium           | 5    | <5       | <5       | <5       | <5       | <5        |
| Cobalt             | <5   | NA       | NA       | NA       | NA       | NA        |
| Copper             | <10  | <10      | <10      | <10      | <1       | <10       |
| Iron               | 44   | <30      | <30      | <30      | <30      | <30       |
| Lead               | <5   | <5       | <5       | <5       | <5       | <5        |
| Manganese          | 7    | <12      | 10       | 11       | 10       | 11        |
| Mercury            | 0.3  | <0.2     | 0.3      | <0.2     | <0.2     | <0.2      |
| Molybdenum         | 21   | 20       | 20       | 20       | 16       | 20        |
| Nickel             | 10   | <10      | <10      | <10      | <10      | <10       |
| Selenium           | <1   | <1       | 4        | <1       | <1       | <1        |
| Vanadium           | 7    | <10      | <10      | <10      | <10      | <10       |
| Zinc               | 52   | <10      | 150      | 230      | 230      | 210       |
| Uranium (as U)     | 18   | 25       | 19       | 6        | 23       | 17        |
| Radium-226 (pCi/l) | 5±2  | 92.6±5.0 | 70.1±5.0 | 45.8±5.7 | 66.3±2.0 | 70.8 ±2.3 |

FERRET EXPLORATION CO OF NEBRASKA  
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Sample Number: FM-4  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3862.5 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 300 ft.

SAMPLE RESULTS

| Sample date | 07-87 | 10-87 | 01-88 | 04-88 | 07-88 | 10-88 |
|-------------|-------|-------|-------|-------|-------|-------|
| Laboratory  | ELI   | ELI   | ELI   | ELI   | ELI   | ELI   |

All values in mg/l unless noted

|                      |       |       |       |       |       |       |
|----------------------|-------|-------|-------|-------|-------|-------|
| Calcium              | 16.9  | 13.6  | 15.4  | 16.8  | 15.3  | 14.5  |
| Magnesium            | 4.4   | 3.50  | 3.9   | 3.5   | 4.1   | 3.0   |
| Sodium               | 395   | 415   | 399   | 383   | 398   | 404   |
| Potassium            | 11.5  | 11.5  | 11.2  | 11.0  | 11.2  | 11.9  |
| Carbonate            | 0     | 0     | 0     | 3.9   | 0     | 0     |
| Bicarbonate          | 376   | 378   | 376   | 363   | 376   | 383   |
| Sulfate              | 360   | 366   | 360   | 346   | 365   | 356   |
| Chloride             | 186   | 194   | 196   | 176   | 187   | 186   |
| Ammonia-N            | 0.43  | 0.44  | 0.46  | 0.46  | 0.45  | 0.43  |
| Nitrite-N            | 0.006 | 0.002 | 0.004 | 0.005 | 0.006 | 0.005 |
| Nitrate-N            | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01  |
| Fluoride             | 0.42  | 0.70  | 0.54  | 0.64  | 0.69  | 0.56  |
| Silica(as SiO2)      | 12.8  | 12.8  | 12.8  | 12.8  | 10.7  | 9.8   |
| TDS-180°C            | 1158  | 1244  | 1126  | 1068  | 1132  | 1150  |
| Conductivity (µmhos) | 1872  | 1814  | 1890  | 1908  | 1926  | 1948  |
| Alkalinity(as CaCO3) | 308   | 310   | 308   | 304   | 308   | 314   |
| pH (standard units)  | 8.18  | 8.08  | 8.07  | 8.37  | 8.30  | 7.85  |
| Ion Balance          | 1.01  | 1.00  | 1.02  | 1.01  | 1.02  | 1.01  |
| TDS Balance          | 0.99  | 1.03  | 0.95  | 0.94  | 0.96  | 0.98  |
| Cond. Balance        | 1.03  | 0.98  | 1.03  | 1.04  | 0.99  | 0.99  |

All values in µg/l unless noted

|                   |          |          |          |          |           |          |
|-------------------|----------|----------|----------|----------|-----------|----------|
| Aluminum          | <100     | <100     | NA       | <100     | <100      | <100     |
| Arsenic           | <1       | <1       | <1       | <1       | <1        | <1       |
| Barium            | <100     | <100     | <100     | <100     | <100      | <100     |
| Boron             | 950      | 940      | 930      | 980      | 790       | 890      |
| Cadmium           | <1       | <1       | <1       | <1       | <1        | <1       |
| Chromium          | <5       | <5       | <5       | <5       | <5        | <5       |
| Cobalt            | NA       | NA       | NA       | NA       | NA        | NA       |
| Copper            | <10      | <10      | <10      | <10      | <10       | <10      |
| Iron              | <30      | <30      | <30      | <30      | <30       | <30      |
| Lead              | <5       | <5       | <5       | 7        | 6         | <5       |
| Manganese         | 11       | <5       | 11       | 8        | 9         | 10       |
| Mercury           | <0.2     | <0.2     | <0.2     | <0.2     | 0.2       | <0.2     |
| Molybdenum        | 20       | <10      | 20       | 20       | 20        | 20       |
| Nickel            | <10      | <10      | <10      | <10      | <10       | <10      |
| Selenium          | <1       | <1       | <1       | <1       | <1        | <1       |
| Vanadium          | <10      | <10      | <10      | <10      | <10       | <10      |
| Zinc              | 180      | 140      | 110      | 87       | 90        | 90       |
| Uranium (as U)    | 5        | 8.1      | 13.0     | 7.7      | 10.2      | 14.6     |
| Radium-226(pCi/l) | 86.5±2.6 | 74.2±2.2 | 60.9±2.5 | 60.3±2.7 | 83.5±13.0 | 120±12.5 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
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Sample Number: PM-4  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3862.5 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 300 ft.

SAMPLE RESULTS

| Sample date                     | 02-89 | 04-89 | 07-89 | 10-89 | 01-90 | 04-90 |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| Laboratory                      | ELI   | ELI   | ELI   | ELI   | ELI   | ELI   |
| All values in mg/l unless noted |       |       |       |       |       |       |
| Calcium                         | 16.6  | 16.0  | 16.5  | 15.2  | 14.8  | 16.6  |
| Magnesium                       | 3.50  | 3.9   | 4.0   | 4.4   | 3.9   | 3.6   |
| Sodium                          | 396   | 392   | 406   | 390   | 402   | 396   |
| Potassium                       | 11.4  | 11.0  | 12.4  | 15.2  | 11.5  | 11.4  |
| Carbonate                       | 0     | 0     | 0     | 0     | 0     | 0     |
| Bicarbonate                     | 371   | 363   | 373   | 379   | 384   | 387   |
| Sulfate                         | 361   | 350   | 371   | 339   | 347   | 331   |
| Chloride                        | 178   | 171   | 180   | 180   | 183   | 177   |
| Ammonia-N                       | 0.41  | 0.43  | 0.48  | 0.48  | 0.42  | 0.49  |
| Nitrite-N                       | 0.006 | 0.007 | 0.004 | 0.039 | 0.001 | 0.004 |
| Nitrate-N                       | 0.03  | 0.02  | 0.01  | 0.01  | 0.02  | 0.09  |
| Fluoride                        | 0.66  | 0.58  | 0.63  | 0.60  | 0.80  | 0.66  |
| Silica(as SiO2)                 | 12.8  | 12.4  | 12.6  | 12.6  | 12.6  | 11.8  |
| TDS-180°C                       | 1100  | 1126  | 1111  | 1138  | 1158  | 1176  |
| Conductivity (µmhos)            | 1858  | 1849  | 1864  | 1876  | 1931  | 1950  |
| Alkalinity(as CaCO3)            | 304   | 297   | 306   | 310   | 315   | 317   |
| pH (standard units)             | 8.00  | 8.28  | 7.80  | 8.18  | 8.26  | 7.90  |
| Ion Balance                     | 1.00  | 0.98  | 0.99  | 0.99  | 0.99  | 0.98  |
| TDS Balance                     | 0.94  | 0.99  | 0.93  | 0.99  | 0.99  | 1.03  |
| Conc. Balance                   | 1.01  | 1.04  | 1.00  | 1.04  | 1.01  | 1.02  |

All values in µg/l unless noted

|                   |          |          |          |          |          |          |
|-------------------|----------|----------|----------|----------|----------|----------|
| Aluminum          | <100     | <100     | <100     | <100     | <100     | <100     |
| Arsenic           | <1       | <1       | <1       | <1       | <1       | <1       |
| Barium            | <100     | <100     | <100     | <100     | <100     | <100     |
| Boron             | 980      | 970      | 970      | 950      | 940      | 980      |
| Cadmium           | 1        | <1       | 1        | 1        | <1       | <1       |
| Chromium          | <5       | <5       | <5       | <5       | <5       | <5       |
| Cobalt            | NA       | NA       | NA       | NA       | NA       | NA       |
| Copper            | <10      | <10      | <10      | <10      | <10      | <10      |
| Iron              | <30      | <30      | <30      | <30      | <30      | <30      |
| Lead              | <5       | <5       | <5       | <5       | <5       | <5       |
| Manganese         | 11       | 11       | 11       | 11       | 11       | 12       |
| Mercury           | <0.2     | 0.2      | 0.4      | <0.2     | <0.2     | <0.2     |
| Molybdenum        | 30       | 20       | 30       | 20       | 20       | 20       |
| Nickel            | <10      | <10      | <10      | <10      | <10      | <10      |
| Selenium          | <1       | <1       | 1        | <1       | <1       | <1       |
| Vanadium          | <10      | <10      | <10      | <10      | <10      | <10      |
| Zinc              | 90       | 90       | 90       | 110      | 100      | 100      |
| Uranium (as U)    | 11.4     | 23.1     | 3.0      | 9.1      | 9        | 11       |
| Radium-226(pCi/l) | 13.5±2.2 | 66.5±1.8 | 70.6±4.7 | 74.4±3.3 | 63.4±7.1 | 57.0±1.7 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
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Sample Number: PM-4  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3862.5 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 300 ft.

SAMPLE RESULTS

Sample date 07-90  
Laboratory ELI  
All values in mg/l unless noted

|                                   |       |
|-----------------------------------|-------|
| Calcium                           | 17.2  |
| Magnesium                         | 4.2   |
| Sodium                            | 391   |
| Potassium                         | 12.8  |
| Carbonate                         | 0     |
| Bicarbonate                       | 362   |
| Sulfate                           | 350   |
| Chloride                          | 179   |
| Ammonia-N                         | 0.30  |
| Nitrite-N                         | <0.01 |
| Nitrate-N                         | <0.10 |
| Fluoride                          | 0.70  |
| Silica(as SiO <sub>2</sub> )      | 12.5  |
| TDS-180°C                         | 1174  |
| Conductivity (µmhos)              | 1950  |
| Alkalinity(as CaCO <sub>3</sub> ) | 297   |
| pH (standard units)               | 8.02  |
| Ion Balance                       | 0.99  |
| TDS Balance                       | 1.02  |
| Cond. Balance                     | 1.04  |

All values in µg/l unless noted

|                   |          |
|-------------------|----------|
| Aluminum          | <100     |
| Arsenic           | <1       |
| Barium            | <100     |
| Boron             | 970      |
| Cadmium           | <1       |
| Chromium          | <5       |
| Cobalt            | NA       |
| Copper            | 10       |
| Iron              | <30      |
| Lead              | <5       |
| Manganese         | 12       |
| Mercury           | <0.2     |
| Molybdenum        | 20       |
| Nickel            | <10      |
| Selenium          | <1       |
| Vanadium          | <10      |
| Zinc              | <10      |
| Uranium (as U)    | 15.0     |
| Radium-226(pCi/l) | 51.8±0.0 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
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Sample Number: PM-A  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3862.5 ft. MSL  
Well Depth: 674 ft.  
Distance from Wellfield: 300 ft.

SAMPLE SUMMARY

| PARAMETER | MINIMUM | MAXIMUM | MEAN | STD. DEVIATION |
|-----------|---------|---------|------|----------------|
|-----------|---------|---------|------|----------------|

All values in mg/l unless noted

|                      |       |       |         |        |
|----------------------|-------|-------|---------|--------|
| Calcium              | 12.1  | 17.2  | 15.296  | 1.283  |
| Magnesium            | 2.85  | 4.4   | 3.574   | .458   |
| Sodium               | 383   | 415   | 398.64  | 7.942  |
| Potassium            | 9.2   | 15.2  | 11.552  | 1.258  |
| Carbonate            | <1    | 14    | 3.4     | 4.471  |
| Bicarbonate          | 338   | 399   | 373.316 | 12.893 |
| Sulfate              | 331   | 371   | 354.2   | 11.098 |
| Chloride             | 170   | 196   | 182.448 | 7.371  |
| Ammonia-N            | 0.06  | 0.49  | .403    | .105   |
| Nitrite-N            | <.001 | 0.039 | 8E-03   | 7E-03  |
| Nitrate-N            | <0.01 | <0.1  | .037    | .04    |
| Fluoride             | 0.4   | 0.80  | .627    | .093   |
| Silica(as SiO2)      | 9.8   | 18    | 13.324  | 1.983  |
| TDS-180°C            | 1068  | 1250  | 1148.12 | 44.05  |
| Conductivity (µmhos) | 1599  | 1980  | 1870.84 | 76.85  |
| Alkalinity(as CaCO3) | 284   | 337   | 309.456 | 11.679 |
| pH (standard units)  | 7.80  | 8.6   | 8.16    | .181   |
| Ion Balance          |       |       |         |        |
| TDS Balance          |       |       |         |        |
| Cond. Balance        |       |       |         |        |

All values in µg/l unless noted

|                    |      |      |         |         |
|--------------------|------|------|---------|---------|
| Aluminum           | <100 | 120  | 100.952 | 4.364   |
| Arsenic            | 1    | <10  | 1.875   | 2.133   |
| Barium             | 30   | <100 | 97.083  | 14.289  |
| Boron              | 500  | 1050 | 935.417 | 109.226 |
| Cadmium            | <0.1 | <10  | 1.338   | 1.854   |
| Chromium           | <1   | <5   | 4.652   | 1.152   |
| Cobalt             | <1   | <50  | 13.2    | 20.645  |
| Copper             | 4    | <10  | 9.5     | 1.694   |
| Iron               | 30   | <50  | 32.25   | 6.166   |
| Lead               | <1   | <10  | 5.167   | 1.404   |
| Manganese          | 5    | <100 | 13.875  | 18.463  |
| Mercury            | <0.1 | 0.4  | .212    | .061    |
| Molybdenum         | <10  | <100 | 22.917  | 17.095  |
| Nickel             | <2   | <50  | 11.333  | 9.396   |
| Selenium           | <1   | <10  | 1.593   | 1.709   |
| Vanadium           | 5    | <100 | 13.75   | 19.657  |
| Zinc               | 5    | 250  | 94      | 72.42   |
| Uranium (as U)     | 5    | 10   | 15.224  | 7.078   |
| Radium-226 (pCi/l) | 35   | 100  | 68.944  | 15.692  |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

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Sample Number: FM-5  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3860.6 ft. MSL  
Well Depth: 695 ft.  
Distance from Wellfield: 280 ft.

SAMPLE RESULTS

| Sample date | 11-85 | 11-85 | 11-85 | 12-85 | 07-86 | 10-86 |
|-------------|-------|-------|-------|-------|-------|-------|
| Laboratory  | ELI   | WAMCO | ELI   | ELI   | ELI   | ELI   |

All values in mg/l unless noted

|                      |        |       |       |        |       |       |
|----------------------|--------|-------|-------|--------|-------|-------|
| Calcium              | 9.8    | 14    | 14.1  | 14.4   | 13.0  | 15.2  |
| Magnesium            | 3.9    | 5     | 3.54  | 3.4    | 3.4   | 3.2   |
| Sodium               | 439    | 408   | 416   | 400    | 409   | 396   |
| Potassium            | 11.5   | 13    | 12.7  | 11.9   | 10.7  | 9.5   |
| Carbonate            | 2.4    | 19    | 0     | 0      | 0     | 0     |
| Bicarbonate          | 351.5  | 312   | 374.0 | 362.5  | 367   | 361   |
| Sulfate              | 355    | 294   | 359   | 348    | 367   | 353   |
| Chloride             | 219    | 235   | 205   | 193    | 186   | 182   |
| Ammonia-N            | 0.64   | <0.05 | 0.62  | 0.15   | 0.40  | 0.40  |
| Nitrite-N            | <0.001 | 0.001 | 0.002 | <0.001 | <0.01 | <0.01 |
| Nitrate-N            | <0.01  | <0.05 | 0.06  | <0.01  | 0.07  | <0.01 |
| Fluoride             | 0.62   | 0.74  | 0.71  | 0.65   | 0.72  | 0.64  |
| Silica(as SiO2)      | 11.1   | 11.49 | 10.9  | 11.0   | 12.7  | 12.6  |
| TDS-180°C            | 1182   | 1236  | 1210  | 1104   | 1196  | 1104  |
| Conductivity (µmhos) | 1820   | 1880  | 1896  | 1853   | 1879  | 1907  |
| Alkalinity(as CaCO3) | 292    | 288   | 306.5 | 297.1  | 301   | 296   |
| pH (standard units)  | 8.34   | 8.26  | 8.30  | 8.24   | 8.05  | 8.06  |
| on Balance           | 0.96   | 1.04  | 1.00  | 1.00   | 1.00  | 1.00  |
| TDS Balance          | 0.96   | 1.08  | 1.00  | 0.95   | 1.01  | 0.96  |
| Cond. Balance        | 1.01   | 1.05  | 1.01  | 0.97   | 1.01  | 0.96  |

All values in µg/l unless noted

|                  |           |        |         |           |           |           |
|------------------|-----------|--------|---------|-----------|-----------|-----------|
| Aluminum         | NA        | NA     | NA      | NA        | <100      | <100      |
| Arsenic          | 2         | <10    | <1      | <1        | <1        | <1        |
| Barium           | <100      | <100   | <100    | <100      | <100      | <100      |
| Boron            | 890       | 980    | 940     | 1020      | 880       | 910       |
| Cadmium          | <1        | <1     | <1      | <1        | <1        | <1        |
| Chromium         | <5        | <5     | <5      | <5        | <5        | <5        |
| Cobalt           | NA        | NA     | NA      | NA        | NA        | NA        |
| Copper           | <10       | <10    | <10     | <10       | <10       | <10       |
| Iron             | 80        | <30    | <30     | <30       | <30       | <30       |
| Lead             | <5        | <5     | 9       | <5        | <5        | 10        |
| Manganese        | 5         | <10    | <5      | <5        | <5        | 5         |
| Mercury          | <0.2      | <0.2   | <0.2    | <0.2      | <0.2      | <0.2      |
| Molybdenum       | 20        | <10    | <10     | 20        | 20        | 20        |
| Nickel           | <10       | <10    | <10     | <10       | <10       | <10       |
| Selenium         | <1        | <1     | <1      | <1        | <1        | <1        |
| Vanadium         | <10       | <10    | <10     | <10       | <10       | <10       |
| Zinc             | <10       | 115    | <10     | <10       | 160       | 190       |
| Uranium (as U)   | 53        | 132    | 51      | 37        | 30        | 12        |
| adium-226(pCi/l) | 301.6±6.4 | 189±17 | 285±6.7 | 299.2±5.7 | 302.4±6.3 | 296.2±6.3 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 2 of 5

Sample Number: PM-5  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3858.6 ft. MSL  
Well Depth: 695 ft.  
Distance from Wellfield: 280 ft.

SAMPLE RESULTS

| Sample date                     | 01-87 | 04-87 | 07-87 | 10-87 | 01-88 | 04-88 |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| Laboratory                      | ELI   | ELI   | ELI   | ELI   | ELI   | ELI   |
| All values in mg/l unless noted |       |       |       |       |       |       |
| Calcium                         | 17.0  | 16.8  | 17.0  | 16.0  | 15.8  | 17.3  |
| Magnesium                       | 4.0   | 4.1   | 4.7   | 3.8   | 4.1   | 3.5   |
| Sodium                          | 395   | 393   | 413   | 394   | 398   | 396   |
| Potassium                       | 10.1  | 12.0  | 11.8  | 11.7  | 11.7  | 11.4  |
| Carbonate                       | 0     | 3.8   | 0     | 0     | 0     | 3.5   |
| Bicarbonate                     | 352   | 340   | 376   | 374   | 378   | 367   |
| Sulfate                         | 360   | 371   | 400   | 354   | 360   | 346   |
| Chloride                        | 192   | 175   | 191   | 182   | 180   | 179   |
| Ammonia-N                       | 0.41  | 0.43  | 0.40  | 0.42  | 0.42  | 0.38  |
| Nitrite-N                       | 0.001 | 0.008 | 0.005 | 0.003 | 0.005 | 0.004 |
| Nitrate-N                       | <0.01 | 0.01  | 0.01  | <0.01 | <0.01 | <0.01 |
| Fluoride                        | 0.70  | 0.64  | 0.40  | 0.67  | 0.54  | 0.60  |
| Silica(as SiO2)                 | 11.6  | 12.8  | 12.8  | 12.8  | 12.8  | 12.8  |
| TDS-180°C                       | 1128  | 1162  | 1174  | 1156  | 1134  | 1112  |
| Conductivity (µmhos)            | 1879  | 1881  | 1860  | 1835  | 1904  | 1921  |
| Alkalinity(as CaCO3)            | 288   | 285   | 308   | 307   | 310   | 307   |
| pH (standard units)             | 8.18  | 8.38  | 8.07  | 8.06  | 8.05  | 8.32  |
| Ion Balance                     | 1.00  | 0.99  | 1.02  | 1.01  | 1.00  | 0.99  |
| TDS Balance                     | 0.97  | 1.00  | 0.95  | 1.00  | 0.97  | 0.96  |
| Cond. Balance                   | 1.02  | 0.98  | 1.00  | 0.96  | 0.97  | 0.97  |

All values in µg/l unless noted

|                  |           |           |           |            |         |         |
|------------------|-----------|-----------|-----------|------------|---------|---------|
| Aluminum         | <100      | <100      | <100      | <100       | NA      | <100    |
| Arsenic          | <1        | <1        | <1        | <1         | <1      | <1      |
| Barium           | <100      | <100      | <100      | <100       | <100    | <100    |
| Boron            | 910       | 960       | 920       | 940        | 420     | 980     |
| Cadmium          | <1        | <1        | <1        | <1         | <1      | <1      |
| Chromium         | <5        | <5        | <5        | <5         | <5      | <5      |
| Cobalt           | NA        | NA        | NA        | NA         | NA      | NA      |
| Copper           | <10       | <10       | <10       | <10        | <10     | <10     |
| Iron             | <30       | <30       | <30       | <30        | <30     | <30     |
| Lead             | <5        | <5        | <5        | <5         | <5      | 6       |
| Manganese        | 6         | 6         | 6         | 6          | 6       | <5      |
| Mercury          | <0.2      | <0.2      | <0.2      | <0.2       | <0.2    | <0.2    |
| Molybdenum       | 16        | 20        | 20        | <10        | 20      | 20      |
| Nickel           | <10       | <10       | <10       | <10        | <10     | <10     |
| Selenium         | <1        | <1        | <1        | <1         | <1      | <1      |
| Vanadium         | <10       | <10       | <10       | <10        | <10     | <10     |
| Zinc             | 180       | 180       | 140       | 120        | 90      | 80      |
| Uranium (as U)   | 38        | 27        | 15        | 1.7        | 21.5    | 22.0    |
| Radium-226(Bq/l) | 328.7±4.8 | 328.7±5.4 | 323.5±5.0 | 348.4 ±4.6 | 477±3.8 | 352±4.0 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 3 of 5

Sample Number: PM-5  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3866.6 ft. MSL  
Well Depth: 695 ft.  
Distance from Wellfield: 280 ft.

SAMPLE RESULTS

| Sample date | 07-88 | 10-88 | 02-89 | 04-89 | 07-89 | 10-89 |
|-------------|-------|-------|-------|-------|-------|-------|
| Laboratory  | ELI   | ELI   | ELI   | ELI   | ELI   | ELI   |

All values in mg/l unless noted

|                      |       |       |       |       |       |       |
|----------------------|-------|-------|-------|-------|-------|-------|
| Calcium              | 17.8  | 14.7  | 18.1  | 15.2  | 16.2  | 13.8  |
| Magnesium            | 4.2   | 2.9   | 4.1   | 3.9   | 4.2   | 4.4   |
| Sodium               | 398   | 390   | 395   | 394   | 407   | 390   |
| Potassium            | 11.4  | 12.9  | 11.5  | 11.3  | 12.8  | 15.4  |
| Carbonate            | 0     | 0     | 0     | 0     | 0     | 0     |
| Bicarbonate          | 378   | 365   | 372   | 359   | 376   | 378   |
| Sulfate              | 371   | 345   | 368   | 354   | 377   | 351   |
| Chloride             | 190   | 175   | 173   | 173   | 175   | 180   |
| Ammonia-N            | 0.42  | 0.40  | 0.39  | 0.40  | 0.45  | 0.46  |
| Nitrite-N            | 0.006 | 0.005 | 0.006 | 0.004 | 0.005 | 0.017 |
| Nitrate-N            | <0.01 | 0.11  | 0.04  | 0.04  | 0.01  | 0.02  |
| Fluoride             | 0.69  | 0.58  | 0.64  | 0.54  | 0.60  | 0.60  |
| Silica(as SiO2)      | 10.3  | 9.8   | 12.4  | 12.2  | 12.2  | 12.2  |
| TDS-180°C            | 1130  | 1190  | 1082  | 1120  | 1126  | 1148  |
| Conductivity (µmhos) | 1925  | 1902  | 1867  | 1839  | 1902  | 1876  |
| Alkalinity(as CaCO3) | 310   | 299   | 305   | 294   | 308   | 310   |
| pH (standard units)  | 8.25  | 7.96  | 8.00  | 8.31  | 7.88  | 8.16  |
| Ion Balance          | 1.02  | 1.00  | 1.00  | 0.98  | 0.99  | 1.01  |
| TDS Balance          | 0.98  | 1.05  | 0.93  | 0.98  | 0.94  | 0.99  |
| Cond. Balance        | 0.98  | 1.01  | 1.00  | 1.02  | 1.02  | 1.03  |

All values in µg/l unless noted

|            |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|
| Aluminum   | <100 | <100 | <100 | <100 | <100 | <100 |
| Arsenic    | <1   | <1   | <1   | <1   | <1   | <1   |
| Barium     | <100 | <100 | <100 | <100 | <100 | <100 |
| Boron      | 770  | 870  | 950  | 930  | 940  | 910  |
| Cadmium    | <1   | 3    | <1   | <1   | <1   | <1   |
| Chromium   | <5   | <5   | <5   | <5   | <5   | <5   |
| Cobalt     | NA   | NA   | NA   | NA   | NA   | NA   |
| Copper     | <10  | <10  | <10  | <10  | <10  | <10  |
| Iron       | <30  | <30  | <30  | <30  | <30  | <30  |
| Lead       | <5   | <5   | <5   | <5   | <5   | <5   |
| Manganese  | <5   | 5    | 6    | 7    | 7    | 6    |
| Mercury    | <0.2 | <0.2 | <0.2 | 0.2  | 0.3  | 0.3  |
| Molybdenum | 30   | 30   | 30   | 10   | 30   | 20   |
| Nickel     | <10  | <10  | <10  | <10  | <10  | <10  |
| Selenium   | <1   | <1   | <1   | <1   | 2    | <1   |
| Vanadium   | <10  | <10  | <10  | <10  | <10  | <10  |
| Zinc       | 80   | 80   | 80   | 90   | 90   | 110  |

|                    |          |          |         |          |         |         |
|--------------------|----------|----------|---------|----------|---------|---------|
| Uranium (as U)     | 24.2     | 28.0     | 26.2    | 33.5     | 19.5    | 18.4    |
| Radium-226 (dpm/l) | 412±23.6 | 526±38.6 | 366±4.9 | 248±34.1 | 262±3.3 | 247±6.9 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 4 of 5

Sample Number: FM-5  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3869.6 ft. MSL  
Well Depth: 695 ft.  
Distance from Wellfield: 280 ft.

SAMPLE RESULTS

| Sample date | 01-90 | 04-90 | 07-90 |
|-------------|-------|-------|-------|
| Laboratory  | ELI   | ELI   | ELI   |

All values in mg/l unless noted

|                      |       |       |       |
|----------------------|-------|-------|-------|
| Calcium              | 15.4  | 17.0  | 17.1  |
| Magnesium            | 4.1   | 4.2   | 4.3   |
| Sodium               | 395   | 393   | 381   |
| Potassium            | 11.8  | 11.7  | 11.6  |
| Carbonate            | 3.65  | 0     | 0     |
| Bicarbonate          | 378   | 387   | 365   |
| Sulfate              | 346   | 341   | 346   |
| Chloride             | 178   | 176   | 177   |
| Ammonia-N            | <0.05 | 0.45  | 0.27  |
| Nitrite-N            | 0.001 | 0.016 | <0.01 |
| Nitrate-N            | 0.02  | 0.07  | 0.10  |
| Iodide               | 0.60  | 0.62  | 0.68  |
| Silica(as SiO2)      | 12.4  | 12.4  | 12.7  |
| TDS-180°C            | 1122  | 1123  | 1156  |
| Conductivity (µmhos) | 1948  | 1950  | 1950  |
| Alkalinity(as CaCO3) | 316   | 317   | 298   |
| pH (standard units)  | 8.32  | 7.91  | 8.04  |
| Ion Balance          | 1.00  | 0.99  | 1.01  |
| TDS Balance          | 0.98  | 0.98  | 1.02  |
| Cond. Balance        | 1.02  | 1.01  | 1.02  |

All values in µg/l unless noted

|                   |         |           |         |
|-------------------|---------|-----------|---------|
| Aluminum          | <100    | <100      | <100    |
| Arsenic           | <1      | <1        | <1      |
| Barium            | <100    | <100      | <100    |
| Boron             | 920     | 920       | 970     |
| Cadmium           | <1      | <1        | 3       |
| Chromium          | <5      | <5        | <5      |
| Cobalt            | NA      | NA        | NA      |
| Copper            | <10     | <10       | 10      |
| Iron              | <30     | <30       | <30     |
| Lead              | <5      | <5        | <5      |
| Manganese         | 7       | 7         | 9       |
| Mercury           | <0.2    | <0.2      | <0.2    |
| Molybdenum        | 20      | 20        | 20      |
| Nickel            | <10     | <10       | <10     |
| Selenium          | <1      | <1        | <1      |
| Vanadium          | <10     | <10       | <10     |
| Zinc              | 110     | 90        | 20      |
| Uranium (as U)    | 21      | 21        | 21.9    |
| Radium-226(pCi/l) | 209±7.2 | 288.3±5.9 | 189±5.4 |

FERRET EXPLORATION CO OF NEBRASKA  
CROW BUTTE PROJECT  
WATER QUALITY REPORT

Page No. 5 of 5

Sample Number: PM-5  
Sample Type: MONITOR WELL  
Formation: CHADRON

Surface Elevation: 3868.6 ft. MSL  
Well Depth: 695 ft.  
Distance from Wellfield: 280 ft.

SAMPLE SUMMARY

| PARAMETER | MINIMUM | MAXIMUM | MEAN | STD. DEVIATION |
|-----------|---------|---------|------|----------------|
|-----------|---------|---------|------|----------------|

All values in mg/l unless noted

|                      |       |       |          |        |
|----------------------|-------|-------|----------|--------|
| Calcium              | 9.8   | 18.1  | 15.51    | 1.936  |
| Magnesium            | 2.9   | 5     | 3.95     | .497   |
| Sodium               | 381   | 439   | 400      | 12.219 |
| Potassium            | 9.5   | 15.4  | 11.829   | 1.176  |
| Carbonate            | 2.4   | 19    | 6.47     | 7.026  |
| Bicarbonate          | 312   | 387   | 365.381  | 16.525 |
| Sulfate              | 294   | 400   | 355.524  | 19.654 |
| Chloride             | 173   | 235   | 186.476  | 15.924 |
| Ammonia-N            | <0.05 | 0.64  | .381     | .147   |
| Nitrite-N            | <.001 | 0.017 | 5E-03    | 5E-03  |
| Nitrate-N            | <0.01 | 0.11  | .033     | .032   |
| Fluoride             | 0.40  | 0.74  | .628     | .076   |
| Silica(as SiO2)      | 9.8   | 17.8  | 12       | .903   |
| TDS-180°C            | 1082  | 1236  | 1147.381 | 39.254 |
| Conductivity (µmhos) | 1820  | 1950  | 1889.23P | 37.074 |
| Alkalinity(as CaCO3) | 285   | 317   | 302.029  | 9.207  |
| pH (standard units)  | 7.88  | 8.38  | 8.15     | .153   |
| Ion Balance          |       |       |          |        |
| TDS Balance          |       |       |          |        |
| Cond. Balance        |       |       |          |        |

All values in µg/l unless noted

|                   |      |      |         |         |
|-------------------|------|------|---------|---------|
| Aluminum          | <100 | <100 | 100     | 0       |
| Arsenic           | <1   | <10  | 1.476   | 1.965   |
| Barium            | <100 | <100 | 100     | 0       |
| Boron             | 420  | 1020 | 901.429 | 124.255 |
| Cadmium           | <1   | 3    | 1.19    | .602    |
| Chromium          | <5   | <5   | 5       | 0       |
| Cobalt            |      |      |         |         |
| Copper            | <10  | <10  | 10      | 0       |
| Iron              | <30  | 80   | 32.381  | 10.911  |
| Lead              | <5   | 10   | 5.476   | 1.365   |
| Manganese         | 5    | <10  | 6.143   | 1.352   |
| Mercury           | <0.2 | 0.3  | .21     | .03     |
| Molybdenum        | <10  | 30   | 19.81   | 6.385   |
| Nickel            | <10  | <10  | 10      | 0       |
| Selenium          | <1   | 2    | 1.048   | .218    |
| Vanadium          | <10  | <10  | 10      | 0       |
| Zinc              | <10  | 190  | 95.952  | 57.142  |
| Uranium (as U)    | 10   | 100  | 10.624  | 28.065  |
| Radium-226(dCi/l) | 169  | 526  | 337.414 | 79.246  |



## ENERGY LABORATORIES, INC.

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254 NORTH CENTER SUITE 100 • CASPER, WY 82601 • FAX (307) 234-1639FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | IJ-6     | IJ-6     | IJ-6     | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-17-90 | 11-02-90 | 11-16-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-26004 | 90-29608 | 90-29842 |      |                    |

## MAJOR IONS mg/l:

|                         |       |       |       |         |         |
|-------------------------|-------|-------|-------|---------|---------|
| Ca                      | 12.0  | 11.0  | 15.1  | 12.70   | ± 2.14  |
| Mg                      | 2.6   | 3.0   | 3.7   | 3.10    | ± 0.56  |
| Na                      | 430   | 430   | 429   | 429.67  | ± 0.58  |
| K                       | 11.0  | 11.0  | 11.9  | 11.30   | ± 0.52  |
| CO <sub>3</sub>         | 4.7   | 6.5   | 5.7   | 5.63    | ± 0.90  |
| HCO <sub>3</sub>        | 323   | 336   | 345   | 334.67  | ± 11.06 |
| SO <sub>4</sub>         | 379   | 359   | 358   | 365.33  | ± 11.85 |
| Cl                      | 227   | 203   | 220   | 216.67  | ± 12.34 |
| NH <sub>4</sub>         | 0.36  | 0.42  | 0.45  | 0.41    | ± 0.05  |
| NO <sub>2</sub>         | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00  |
| NO <sub>3</sub>         | 0.15  | <0.01 | <0.01 | ±0.06   | ± 0.08  |
| F                       | 0.67  | 0.76  | 0.78  | 0.74    | ± 0.06  |
| SiO <sub>2</sub>        | 19.0  | 20.8  | 16.7  | 18.83   | ± 2.06  |
| TDS @ 180 C             | 1229  | 1167  | 1193  | 1196.33 | ± 31.13 |
| Cond (umho/cm)          | 1881  | 2008  | 2003  | 1964.00 | ± 71.92 |
| Dilute Cond (umho/cm)   | 2271  | 2173  | 2307  | 2250.33 | ± 69.35 |
| Alk - CaCO <sub>3</sub> | 273   | 286   | 292   | 283.67  | ± 9.71  |
| pH (std units)          | 8.50  | 8.62  | 8.55  | 8.56    | ± 0.06  |

## TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.91   | 0.92   | 0.89   | 0.91   | ± 0.02  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.01   | 0.01   | 0.02   | 0.01   | ± 0.01  |

## RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.1099 | 0.1460 | 0.0690 | 0.1083 | ± 0.0385 |
| Ra226 (pCi/l) | 161    | 150    | 159    | 156.67 | ± 5.86   |
| Ra Prec. ±    | 4.9    | 4.7    | 4.2    | 4.60   | ± 0.36   |

## QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 19.79 | 18.96 | 19.54 |  |  |
| Cation meq:      | 19.84 | 19.83 | 20.07 |  |  |
| A/C Balance:     | 0.998 | 0.956 | 0.974 |  |  |
| Calc TDS mg/l:   | 1249  | 1214  | 1234  |  |  |
| TDS A/C Bal:     | 0.984 | 0.961 | 0.967 |  |  |
| Calc Dil. Cond.: | 2291  | 2222  | 2274  |  |  |
| Dil. Cond. Bal:  | 0.991 | 0.978 | 1.015 |  |  |

**FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
 BASELINE WATER ANALYSIS REPORT**

| Sample I.D.:       | IJ-13    | IJ-13    | IJ-13    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-18-90 | 11-02-90 | 11-16-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-29019 | 90-29607 | 90-29847 |      |                    |

**MAJOR IONS mg/l:**

|                       |       |       |       |         |         |
|-----------------------|-------|-------|-------|---------|---------|
| Ca                    | 11.0  | 7.9   | 9.5   | 9.47    | ± 1.55  |
| Mg                    | 3.0   | 2.2   | 3.1   | 2.77    | ± 0.49  |
| Na                    | 405   | 410   | 390   | 401.67  | ± 10.41 |
| K                     | 11.0  | 11.0  | 9.7   | 10.57   | ± 0.75  |
| CO3                   | 4.1   | 7.4   | 5.2   | 5.57    | ± 1.68  |
| HCO3                  | 342   | 286   | 315   | 314.67  | ± 28.50 |
| SO4                   | 368   | 366   | 341   | 358.33  | ± 15.04 |
| Cl                    | 189   | 193   | 189   | 190.33  | ± 2.31  |
| NH4                   | 0.37  | 0.37  | 0.31  | 0.35    | ± 0.03  |
| NO2                   | <0.01 | <0.01 | <0.01 | ≤0.01   | ± 0.00  |
| NO3                   | 0.05  | 0.02  | <0.01 | ≤0.03   | ± 0.02  |
| F                     | 0.59  | 0.82  | 0.78  | 0.73    | ± 0.12  |
| SiO2                  | 19.7  | 25.7  | 20.7  | 22.03   | ± 3.21  |
| TDS @ 180 C           | 1140  | 1118  | 1120  | 1129.00 | ± 17.35 |
| Cond (umho/cm)        | 2014  | 1903  | 2006  | 1974.33 | ± 61.91 |
| Dilute Cond (umho/cm) | 2179  | 2059  | 2138  | 2125.33 | ± 60.99 |
| Alk - CaCO3           | 288   | 247   | 267   | 267.33  | ± 20.50 |
| pH (std units)        | 8.41  | 8.75  | 8.55  | 8.57    | ± 0.17  |

**TRACE METALS mg/l:**

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | 0.004  | 0.005  | 0.004  | 0.004  | ± 0.001 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.92   | 0.92   | 0.97   | 0.94   | ± 0.03  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.02   | <0.01  | 0.01   | ≤0.01  | ± 0.01  |

**RADIOMETRIC:**

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.1992 | 0.2833 | 0.2410 | 0.2412 | ± 0.0420 |
| Ra226 (pCi/l) | 854    | 413    | 432    | 566.17 | ± 249.44 |
| Ra Prec. ±    | 12.0   | 7.8    | 7.0    | 8.93   | ± 2.69   |

**QUALITY ASSURANCE DATA:**

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 18.79 | 18.04 | 17.81 |  |  |
| Cation meq:      | 18.74 | 18.74 | 17.98 |  |  |
| A/C Balance:     | 1.003 | 0.963 | 0.990 |  |  |
| Calc TDS mg/l:   | 1184  | 1168  | 1127  |  |  |
| TDS A/C Bal:     | 0.970 | 0.957 | 0.993 |  |  |
| Calc Dil. Cond.: | 2151  | 2125  | 2055  |  |  |
| Dil. Cond. Bal:  | 1.013 | 0.969 | 1.041 |  |  |



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254 NORTH CENTER SUITE 100 • CASPER, WY 82601 • FAX (307) 234-1639

FERRÉT EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | IJ-25    | IJ-25    | IJ-25    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-17-90 | 11-02-90 | 11-16-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-29018 | 90-29606 | 90-29846 |      |                    |

MAJOR IONS mg/l:

|                       |       |       |      |         |         |
|-----------------------|-------|-------|------|---------|---------|
| Ca                    | 10.0  | 5.8   | 10.4 | 8.73    | ± 2.55  |
| Mg                    | 2.9   | 2.0   | 2.6  | 2.50    | ± 0.46  |
| Na                    | 400   | 410   | 397  | 402.33  | ± 6.81  |
| K                     | 13.0  | 13.0  | 12.3 | 12.77   | ± 0.40  |
| CO3                   | 4.0   | 6.0   | 7.3  | 5.77    | ± 1.66  |
| HCO3                  | 321   | 277   | 322  | 306.67  | ± 25.70 |
| SO4                   | 367   | 371   | 343  | 360.33  | ± 15.14 |
| Cl                    | 203   | 213   | 197  | 204.33  | ± 8.08  |
| NH4                   | 0.32  | 0.55  | 0.29 | 0.39    | ± 0.14  |
| NO2                   | <0.01 | <0.01 | 0.03 | ≤0.02   | ± 0.01  |
| NO3                   | 0.33  | 0.02  | 0.05 | 0.13    | ± 0.17  |
| F                     | 0.61  | 0.70  | 0.78 | 0.70    | ± 0.09  |
| SiO2                  | 21.2  | 25.7  | 21.9 | 22.93   | ± 2.42  |
| TDS @ 180 C           | 1116  | 1133  | 1128 | 1125.67 | ± 8.74  |
| Cond (umho/cm)        | 2016  | 1961  | 1933 | 1970.00 | ± 42.23 |
| Dilute Cond (umho/cm) | 2181  | 2122  | 2035 | 2112.67 | ± 73.45 |
| Alk - CaCO3           | 270   | 237   | 276  | 261.00  | ± 21.00 |
| pH (std units)        | 8.43  | 8.67  | 8.69 | 8.60    | ± 0.14  |

TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | 0.001  | ≤0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.90   | 0.92   | 0.98   | 0.93   | ± 0.04  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.02   | <0.01  | <0.01  | ≤0.01  | ± 0.01  |

RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0357 | 0.0258 | 0.0430 | 0.0348 | ± 0.0086 |
| Ra226 (pCi/l) | 228    | 89.8   | 127    | 148.23 | ± 71.52  |
| Ra Prec. ±    | 6.0    | 3.7    | 3.8    | 4.50   | ± 1.30   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 18.82 | 18.51 | 18.26 |  |  |
| Cation meq:      | 18.51 | 18.67 | 18.35 |  |  |
| A/C Balance:     | 1.017 | 0.991 | 0.99  |  |  |
| Calc TDS mg/l:   | 1184  | 1187  | 1154  |  |  |
| TDS A/C Bal:     | 0.942 | 0.955 | 0.977 |  |  |
| Calc Dil. Cond.: | 2154  | 2162  | 2106  |  |  |
| Dil. Cond. Bal:  | 1.013 | 0.981 | 0.966 |  |  |



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FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | IJ-28    | IJ-28    | IJ-28    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-17-90 | 11-02-90 | 11-16-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-29016 | 90-29604 | 90-29843 |      |                    |

MAJOR IONS mg/l:

|                       |       |       |       |         |         |
|-----------------------|-------|-------|-------|---------|---------|
| Ca                    | 14.0  | 14.0  | 23.8  | 17.27   | ± 5.66  |
| Mg                    | 3.9   | 4.0   | 5.8   | 4.57    | ± 1.07  |
| Na                    | 410   | 420   | 402   | 410.67  | ± 9.02  |
| K                     | 12.0  | 12.0  | 12.3  | 12.10   | ± 0.17  |
| CO3                   | 0     | 6.8   | 5.7   | 4.17    | ± 3.65  |
| HCO3                  | 381   | 368   | 366   | 371.67  | ± 8.14  |
| SO4                   | 363   | 371   | 357   | 363.67  | ± 7.02  |
| Cl                    | 189   | 186   | 193   | 189.33  | ± 3.51  |
| NH4                   | 0.35  | 0.26  | 0.35  | 0.32    | ± 0.05  |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00  |
| NO3                   | 0.04  | <0.01 | <0.01 | ≤0.02   | ± 0.02  |
| F                     | 0.54  | 0.73  | 0.78  | 0.68    | ± 0.13  |
| SiO2                  | 16.3  | 17.1  | 20.3  | 17.90   | ± 2.12  |
| TDS @ 180 C           | 1173  | 1163  | 1183  | 1173.00 | ± 10.00 |
| Cond (umho/cm)        | 2044  | 1982  | 1913  | 1979.67 | ± 65.53 |
| Dilute Cond (umho/cm) | 2211  | 2145  | 2210  | 2188.67 | ± 37.82 |
| Alk - CaCO3           | 312   | 313   | 310   | 311.67  | ± 1.53  |
| pH (std units)        | 8.16  | 8.60  | 8.53  | 8.43    | ± 0.24  |

TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.90   | 0.90   | 1.06   | 0.95   | ± 0.09  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | 0.01   | ≤0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | 0.00    |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | 0.01   | 0.02   | 0.02   | 0.02   | ± 0.01  |

RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0605 | 0.0498 | 0.0680 | 0.0594 | ± 0.0091 |
| Ra226 (pCi/l) | 110    | 114    | 101    | 108.27 | ± 6.77   |
| Ra Prec. ±    | 4.4    | 4.1    | 3.1    | 3.87   | ± 0.68   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 19.16 | 19.27 | 19.11 |  |  |
| Cation meq:      | 19.20 | 19.64 | 19.51 |  |  |
| A/C Balance:     | 0.998 | 0.981 | 0.979 |  |  |
| Calc TDS mg/l:   | 1200  | 1216  | 1204  |  |  |
| TDS A/C Bal:     | 0.977 | 0.956 | 0.982 |  |  |
| Calc Dil. Cond.: | 2183  | 2220  | 2204  |  |  |
| Dil. Cond. Bal:  | 1.013 | 0.966 | 1.003 |  |  |

FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
BASELINE WATER ANALYSIS REPORT

| Sample I.D.:       | IJ-45    | IJ-45    | IJ-45    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-16-90 | 11-01-90 | 11-15-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-25997 | 90-29602 | 90-29835 |      |                    |

MAJOR IONS mg/l:

|                       |       |      |       |         |         |
|-----------------------|-------|------|-------|---------|---------|
| Ca                    | 6.9   | 4.5  | 11.5  | 7.63    | ± 3.56  |
| Mg                    | 1.8   | 1.3  | 3.5   | 2.20    | ± 1.15  |
| Na                    | 420   | 440  | 410   | 423.33  | ± 15.28 |
| K                     | 13.0  | 14.0 | 17.6  | 14.87   | ± 2.42  |
| CO3                   | 6.3   | 9.4  | 5.7   | 7.13    | ± 1.99  |
| HCO3                  | 299   | 300  | 345   | 314.67  | ± 26.27 |
| SO4                   | 364   | 367  | 366   | 365.67  | ± 1.53  |
| Cl                    | 241   | 227  | 186   | 218.00  | ± 28.58 |
| NH4                   | 0.28  | 0.25 | <0.05 | ≤0.19   | ± 0.13  |
| NO2                   | <0.01 | 0.01 | <0.01 | <0.01   | ± 0.00  |
| NO3                   | 0.01  | 0.03 | <0.01 | ≤0.02   | ± 0.01  |
| F                     | 0.62  | 0.79 | 0.72  | 0.71    | ± 0.09  |
| SiO2                  | 18.4  | 21.4 | 15.7  | 18.50   | ± 2.85  |
| TDS @ 180 C           | 1187  | 1203 | 1201  | 1197.00 | ± 8.72  |
| Cond (umho/cm)        | 1900  | 2045 | 1909  | 1951.33 | ± 81.24 |
| Dilute Cond (umho/cm) | 2293  | 2212 | 2159  | 2221.33 | ± 67.49 |
| Alk - CaCO3           | 256   | 262  | 292   | 270.00  | ± 19.29 |
| pH (std units)        | 8.66  | 8.83 | 8.55  | 8.68    | ± 0.14  |

TRACE METALS mg/l:

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.87   | 0.92   | 0.97   | 0.92   | ± 0.05  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | 0.01   | ≤0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |

RADIOMETRIC:

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0501 | 0.0859 | 0.0820 | 0.0727 | ± 0.0196 |
| Ra226 (pCi/l) | 92.4   | 57.0   | 115    | 88.13  | ± 29.23  |
| Ra spec. ±    | 3.7    | 2.9    | 3.5    | 3.37   | ± 0.42   |

QUALITY ASSURANCE DATA:

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 19.52 | 19.32 | 18.75 |  |  |
| Cation meq:      | 19.13 | 19.86 | 19.16 |  |  |
| A/C Balance:     | 1.021 | 0.973 | 0.978 |  |  |
| Calc TDS mg/l:   | 1222  | 1236  | 1190  |  |  |
| TDS A/C Bal:     | 0.971 | 0.973 | 1.010 |  |  |
| Calc Dil. Cond.: | 2251  | 2272  | 2173  |  |  |
| Dil. Cond. Bal:  | 1.019 | 0.974 | 0.993 |  |  |

**FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
 BASELINE WATER ANALYSIS REPORT**

| Sample I.D.:       | PR-15    | PR-15    | PR-15    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-16-90 | 11-01-90 | 11-15-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-26001 | 90-29603 | 90-29841 |      |                    |

**MAJOR IONS mg/l:**

|                       |       |      |      |         |         |
|-----------------------|-------|------|------|---------|---------|
| Ca                    | 5.9   | 16.0 | 17.8 | 13.23   | ± 6.41  |
| Mg                    | 3.0   | 4.1  | 4.7  | 3.93    | ± 0.86  |
| Na                    | 405   | 410  | 381  | 398.67  | ± 15.50 |
| K                     | 10.0  | 11.0 | 12.3 | 11.10   | ± 1.15  |
| CO3                   | 5.0   | 7.1  | 5.7  | 5.93    | ± 1.07  |
| HCO3                  | 360   | 361  | 364  | 361.67  | ± 2.08  |
| SO4                   | 357   | 352  | 348  | 352.33  | ± 4.51  |
| Cl                    | 186   | 176  | 179  | 180.33  | ± 5.13  |
| NH4                   | 0.32  | 0.94 | 0.33 | 0.53    | ± 0.36  |
| NO2                   | <0.01 | 0.05 | 0.04 | 0.03    | ± 0.02  |
| NO3                   | 0.04  | 0.09 | 0.02 | 0.05    | ± 0.04  |
| F                     | 0.55  | 0.76 | 0.72 | 0.69    | ± 0.09  |
| SiO2                  | 15.0  | 18.2 | 16.9 | 16.70   | ± 1.61  |
| TDS @ 180 C           | 1139  | 1130 | 1143 | 1137.33 | ± 6.66  |
| Cond (umho/cm)        | 1759  | 1939 | 1903 | 1867.00 | ± 95.25 |
| Dilute Cond (umho/cm) | 2123  | 2098 | 2110 | 2110.33 | ± 12.50 |
| Alk - CaCO3           | 304   | 308  | 308  | 306.67  | ± 2.31  |
| pH (std units)        | 8.48  | 8.63 | 8.53 | 8.55    | ± 0.08  |

**TRACE METALS mg/l:**

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.84   | 0.89   | 1.00   | 0.91   | ± 0.08  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | 0.06   | <0.05  | 0.05   | ± 0.01  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | 0.02   | 0.01   | 0.01   | 0.01   | ± 0.01  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | <0.01  | 0.04   | 0.01   | 0.02   | ± 0.02  |

**RADIOMETRIC:**

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0343 | 0.0790 | 0.0540 | 0.0558 | ± 0.0224 |
| Ra226 (pCi/l) | 26.7   | 18.6   | 10.1   | 18.47  | ± 8.30   |
| Ra Prec. ±    | 1.1    | 0.9    | 1.0    | 1.00   | ± 0.10   |

**QUALITY ASSURANCE DATA:**

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 18.78 | 18.50 | 18.49 |  |  |
| Cation meq:      | 18.45 | 19.34 | 18.20 |  |  |
| A/C Balance:     | 1.018 | 0.957 | 1.016 |  |  |
| Calc TDS mg/l:   | 1168  | 1178  | 1149  |  |  |
| TDS A/C Bal:     | 0.975 | 0.959 | 0.995 |  |  |
| Calc Dil. Cond.: | 2127  | 2148  | 2094  |  |  |
| Dil. Cond. Bal:  | 0.998 | 0.977 | 1.008 |  |  |



**ENERGY LABORATORIES, INC.**

P O BOX 3228 - CASPER WY 82602 - PHONE (307) 235-0515  
 254 NORTH CENTER SUITE 100 - CASPER WY 82601 - FAX (307) 234-1839

**FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - CROW BUTTE PROJECT  
 BASELINE WATER ANALYSIS REPORT**

| Sample I.D.:       | PR-19    | PR-19    | PR-19    | Mean | Standard Deviation |
|--------------------|----------|----------|----------|------|--------------------|
| Sample Date:       | 10-17-90 | 11-02-90 | 11-16-90 |      |                    |
| Report Date:       | 11-23-90 | 11-23-90 | 11-30-90 |      |                    |
| Laboratory I.D. #: | 90-29017 | 90-29605 | 90-29849 |      |                    |

**MAJOR IONS mg/l:**

|                       |       |       |       |         |         |
|-----------------------|-------|-------|-------|---------|---------|
| Ca                    | 14.0  | 13.0  | 14.9  | 13.97   | ± 0.95  |
| Mg                    | 3.5   | 3.7   | 4.2   | 3.80    | ± 0.36  |
| Na                    | 410   | 410   | 400   | 406.67  | ± 5.77  |
| K                     | 13.0  | 12.0  | 12.0  | 12.33   | ± 0.58  |
| CO3                   | 3.3   | 6.6   | 4.8   | 4.90    | ± 1.65  |
| HCO3                  | 351   | 349   | 346   | 348.67  | ± 2.52  |
| SO4                   | 370   | 362   | 352   | 361.33  | ± 9.02  |
| Cl                    | 191   | 186   | 189   | 188.67  | ± 2.52  |
| NH4                   | 0.34  | 0.22  | 0.28  | 0.28    | ± 0.06  |
| NO2                   | <0.01 | <0.01 | <0.01 | <0.01   | ± 0.00  |
| NO3                   | 0.02  | 0.03  | 0.05  | 0.03    | ± 0.02  |
| F                     | 0.59  | 0.73  | 0.75  | 0.69    | ± 0.09  |
| SiO2                  | 18.2  | 18.6  | 14.7  | 17.17   | ± 2.15  |
| TDS @ 180 C           | 1156  | 1142  | 1165  | 1154.33 | ± 11.59 |
| Cond (umho/cm)        | 2024  | 1962  | 1995  | 1993.67 | ± 31.02 |
| Dilute Cond (umho/cm) | 2190  | 2123  | 2106  | 2139.67 | ± 44.41 |
| Alk - CaCO3           | 293   | 297   | 292   | 294.00  | ± 2.65  |
| pH (std units)        | 8.31  | 8.61  | 8.48  | 8.47    | ± 0.15  |

**TRACE METALS mg/l:**

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| Al | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| As | 0.001  | <0.001 | <0.001 | ≤0.001 | ± 0.000 |
| Ba | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| B  | 0.91   | 0.92   | 1.00   | 0.94   | ± 0.05  |
| Cd | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Cr | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Cu | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Fe | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Pb | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Mn | <0.01  | <0.01  | <0.01  | <0.01  | ± 0.00  |
| Hg | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| Mo | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Ni | <0.05  | <0.05  | <0.05  | <0.05  | ± 0.00  |
| Se | <0.001 | <0.001 | <0.001 | <0.001 | ± 0.000 |
| V  | <0.10  | <0.10  | <0.10  | <0.10  | ± 0.00  |
| Zn | <0.01  | 0.01   | 0.01   | ≤0.01  | ± 0.00  |

**RADIOMETRIC:**

|               |        |        |        |        |          |
|---------------|--------|--------|--------|--------|----------|
| U (mg/l)      | 0.0405 | 0.0318 | 0.0360 | 0.0361 | ± 0.0044 |
| Ra226 (pCi/l) | 244    | 263    | 245    | 250.73 | ± 10.64  |
| Ra Prec. ±    | 6.7    | 6.3    | 6.3    | 6.43   | ± 0.23   |

**QUALITY ASSURANCE DATA:**

|                  |       |       |       |  |  |
|------------------|-------|-------|-------|--|--|
| Anion meq:       | 18.99 | 18.76 | 18.53 |  |  |
| Cation meq:      | 19.19 | 19.12 | 18.83 |  |  |
| A/C Balance:     | 0.989 | 0.981 | 0.984 |  |  |
| Calc TDS mg/l:   | 1200  | 1188  | 1166  |  |  |
| TDS A/C Bal:     | 0.963 | 0.961 | 0.999 |  |  |
| Calc Dil. Cond.: | 2186  | 2167  | 2136  |  |  |
| Dil. Cond. Bal:  | 1.002 | 0.980 | 0.986 |  |  |