

40-8829

# Wyoming Fuel Company

12055 W. Second Place • P.O. Box 15596 • Lakewood, Colorado 80215 • Telephone (303) 989-5037

RETURN ORIGINAL TO PDR, HQ.

May 8, 1986

Ms. Candice Jierree  
U.S. Nuclear Regulatory Commission  
Uranium Recovery Field Office  
Box 25325  
Denver, Colorado 80225

Dear Ms. Jierree:

Attached is a copy of Nebraska Department of Environmental Control permit transfer from Wyoming Fuel Company to Ferret Exploration Company of Nebraska, Inc. and the approval of the Notice of Intent to Operate for the project. Also attached is a copy of the bond rider to existing Surety Bond No. 47925 which replaces Wyoming Fuel Company with Ferret Exploration Company of Nebraska, Inc. as principal.

If you need any additional information to process the transfer of Source Material License SUA-1441 from Wyoming Fuel Company to Ferret Exploration Company of Nebraska, Inc. please contact me.

Sincerely,

*Stephen P. Collings*

Stephen P. Collings  
Manager - Uranium Development

SPC/tl

DESIGNATED ORIGINAL

Certified By Mary C. Hood

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PDR ADOCK 04008829  
C PDR

FEE NOT REQUIRED

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# STATE OF NEBRASKA

ROBERT KERREY • GOVERNOR • DENNIS GRAMS • DIRECTOR

May 7, 1986

Thor Gjelsteen, President  
Ferret Exploration Company of  
Nebraska, Inc.  
1800 Glenarm - Suite 300  
Denver, Co 80202

Geoffrey Weston  
Wyoming Fuel Company  
12055 W. Second Place  
P.O. Box 15596  
Lakewood, CO 80215

RE: Permit transfer UIC  
No. NE 0114162

Dear Sirs:

The Department has received your letters dated April 2 and 29, 1986, requesting transfer of UIC Permit No. NE 0114162 from Wyoming Fuel Company to Ferret Exploration Company of Nebraska, Inc (Ferret Nebraska). Pursuant to Title 122, Chapter 26 and Chapter 27, Section 003, Subsection 003.04, Permit No. 0114162 is transferred to Ferret Nebraska.

The transfer is effective May 7, 1986. The transfer is a minor permit modification and does not require public notice and comment.

The bond rider to existing surety bond No. 47925, which replaces Wyoming Fuel Company with Ferret Nebraska as principal, was received by the Department on May 1, 1986 and is accepted. Existing Surety bond No. 47925 dated February 18, 1985 is continued.

As provided in your agreement, Ferret Nebraska assumes all responsibilities, coverage and liability under Permit No. NE 0114062. This includes the application for permit modification currently pending before the Department.

All information regarding the Crow Butte project that is classified as confidential retains such classification in Ferret Nebraska's name. This is pursuant to Title 122, Chapter 25, Section 002.

If you have any questions, please call Jay Ringenberg at 471-4239.

Sincerely,

Dennis Grams, P.E.

JL/ds

Copy to: Rick Fanyo  
Stephen P. Collings  
Ruth Anne Evans  
Candice C. Jierre ✓



# STATE OF NEBRASKA

ROBERT KERREY • GOVERNOR • DENNIS GRAMS • DIRECTOR

May 7, 1986

Thor Gjelsteen, President  
Ferret Exploration Company of  
Nebraska, Inc.  
1800 Glenarm - Suite 300  
Denver, CO 80202

Re: Intent to Operate  
Permit No. NE 0114162

Dear Mr. Gjelsteen:

The Department has completed its review of the notice of intent to operate submitted for permit No. NE 0114162. The review was done pursuant to Title 122, Chapter 17, Section 004, Chapter 19, Section 001, Subsection 001.02 and Part I.C. of Permit No. NE0114162. The review included an on-site inspection and determination of the UCL's and restoration values in accordance with the permit terms and conditions.

Approval is given. Ferret Nebraska may operate its pilot plant.

Enclosed are pages 7, 8, 10, 13, 14-16, 30, 31, 33, 35, 36, and 42-46 to Permit No. NE 0114162 which contain the newly established UCL's and restoration values. These pages supersede the existing pages.

In response to the letter dated March 25, 1986, regarding alkalinity analysis, the only acceptable procedure to the Department is to analyze an unfiltered sample for alkalinity.

Additionally, the Department directs Ferret Nebraska to pump the accumulated rainwater in the surface impoundments into the east cell prior to start up. Ferret Nebraska may land apply this water on the newly seeded areas and roads within the permit area.

If you have any questions, please contact Jay Ringenberg at 471-4239.

Sincerely,

Dennis Grams, P.E.

JL/ds

copy to: Rick Fanyo  
Stephen P. Collings  
Ruth Anne Evans  
Candice Jierree

B. MONITORING REQUIREMENTS

During the period beginning upon completion of well construction and lasting through March 11, 1990, the permittee shall monitor PM-2 (Chadron) as specified below:

<u>MONITORING CHARACTERISTIC</u>	<u>Sampling Frequency</u>	<u>MONITORING REQUIREMENTS</u>		<u>Sample Type</u>
		<u>Upper Control Limit</u>		
		<u>Single Parameter</u>	<u>Multiple Parameter</u>	
Sodium	Biweekly	588 mg/l	490 mg/l	Grab
Sulfate	Biweekly	505 mg/l	421 mg/l	Grab
Chloride	Biweekly	305 mg/l	254 mg/l	Grab
Conductivity	Biweekly	2669 umhos	2224 umhos	Grab
Alkalinity	Biweekly	439 mg/l	366 mg/l	Grab
Water Level	Biweekly	Reading will be reported to the nearest 0.1 ft. from the land surface.		
Barometric Pressure	Biweekly			

Sample(s) taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the well head.

Footnote(s) referenced to Part II, C

## B. MONITORING REQUIREMENTS

During the period beginning upon completion of well construction and lasting through March 11, 1990, the permittee shall monitor PM-3 (Chadron) as specified below:

<u>MONITORING CHARACTERISTIC</u>	<u>Sampling Frequency</u>	<u>MONITORING REQUIREMENTS</u>		<u>Sample Type</u>
		<u>Upper Control Limit</u>		
		<u>Single Parameter</u>	<u>Multiple Parameter</u>	
Sodium	Biweekly	692 mg/l	577 mg/l	Grab
Sulfate	Biweekly	503 mg/l	419 mg/l	Grab
Chloride	Biweekly	482 mg/l	402 mg/l	Grab
Conductivity	Biweekly	3024 umhos	2520 umhos	Grab
Alkalinity	Biweekly	421 mg/l	351 mg/l	Grab
Water Level	Biweekly	Reading will be reported to the nearest 0.1 ft. from the land surface.		
Barometric Pressure	Biweekly			

Sample(s) taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the well head.

Footnote(s) referenced to Part II, C

B. MONITORING REQUIREMENTS

During the period beginning upon completion of well construction and lasting through March 11, 1990, the permittee shall monitor PM-5 (Chadron) as specified below:

<u>MONITORING CHARACTERISTIC</u>	<u>MONITORING REQUIREMENTS</u>			
	<u>Sampling Frequency</u>	<u>Upper Control Limit</u>		<u>Sample Type</u>
		<u>Single Parameter</u>	<u>Multiple Parameter</u>	
Sodium	Biweekly	632 mg/l	527 mg/l	Grab
Sulfate	Biweekly	517 mg/l	431 mg/l	Grab
Chloride	Biweekly	338 mg/l	282 mg/l	Grab
Conductivity	Biweekly	2730 umhos	2275 umhos	Grab
Alkalinity	Biweekly	442 mg/l	368 mg/l	Grab
Water Level	Biweekly	Reading will be reported to the nearest 0.1 ft. from the land surface.		
Barometric Pressure	Biweekly			

Sample(s) taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the well head.

Footnote(s) referenced to Part II, C



## B. MONITORING REQUIREMENTS

During the period beginning upon completion of well construction and lasting through March 11, 1990, the permittee shall monitor PM-8 (Chadron) as specified below:

<u>MONITORING CHARACTERISTIC</u>	<u>MONITORING REQUIREMENTS</u>			
	<u>Sampling Frequency</u>	<u>Upper Control Limit</u>		<u>Sample Type</u>
		<u>Single Parameter</u>	<u>Multiple Parameter</u>	
Sodium	Biweekly	612 mg/l	510 mg/l	Grab
Sulfate	Biweekly	497 mg/l	414 mg/l	Grab
Chloride	Biweekly	311 mg/l	259 mg/l	Grab
Conductivity	Biweekly	2651 umhos	2209 umhos	Grab
Alkalinity	Biweekly	440 mg/l	367 mg/l	Grab
Water Level	Biweekly	Reading will be reported to the nearest 0.1 ft. from the land surface.		
Barometric Pressure	Biweekly			

Sample(s) taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
at the well head.

Footnote(s) referenced to Part II, C

## B. MONITORING REQUIREMENTS

During the period beginning upon completion of well construction and lasting through March 11, 1990, the permittee shall monitor PM-9 (Chadron) as specified below:

<u>MONITORING CHARACTERISTIC</u>	<u>MONITORING REQUIREMENTS</u>			
	<u>Sampling Frequency</u>	<u>Upper Control Limit</u>		<u>Sample Type</u>
		<u>Single Parameter</u>	<u>Multiple Parameter</u>	
Sodium	Biweekly	684 mg/l	570 mg/l	Grab
Sulfate	Biweekly	494 mg/l	412 mg/l	Grab
Chloride	Biweekly	442 mg/l	368 mg/l	Grab
Conductivity	Biweekly	3043 umhos	2536 umhos	Grab
Alkalinity	Biweekly	421 mg/l	351 mg/l	Grab
Water Level	Biweekly	Reading will be reported to the nearest 0.1 ft. from the land surface.		
Barometric Pressure	Biweekly			

Sample(s) taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the well head.

Footnote(s) referenced to Part II, C



## B. MONITORING REQUIREMENTS

During the period beginning upon completion of well construction and lasting through March 11, 1990, the permittee shall monitor PM-10 (Chadron) as specified below:

<u>MONITORING CHARACTERISTIC</u>	<u>Sampling Frequency</u>	<u>MONITORING REQUIREMENTS</u>		<u>Sample Type</u>
		<u>Upper Control Limit</u>		
		<u>Single Parameter</u>	<u>Multiple Parameter</u>	
Sodium	Biweekly	588 mg/l	490 mg/l	Grab
Sulfate	Biweekly	494 mg/l	412 mg/l	Grab
Chloride	Biweekly	288 mg/l	240 mg/l	Grab
Conductivity	Biweekly	2544 umhos	2120 umhos	Grab
Alkalinity	Biweekly	444 mg/l	370 mg/l	Grab
Water Level	Biweekly	Reading will be reported to the nearest 0.1 ft. from the land surface.		
Barometric Pressure	Biweekly			

Sample(s) taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
at the well head.

Footnote(s) referenced to Part II. C

B. MONITORING REQUIREMENTS

During the period beginning upon completion of well construction and lasting through March 11, 1990, the permittee shall monitor PM-11 (Brule) as specified below:

<u>MONITORING CHARACTERISTIC</u>	<u>Sampling Frequency</u>	<u>MONITORING REQUIREMENTS</u>		<u>Sample Type</u>
		<u>Upper Control Limit</u>		
		<u>Single Parameter</u>	<u>Multiple Parameter</u>	
Sodium	Biweekly	196 mg/l	163 mg/l	Grab
Sulfate	Biweekly	77 mg/l	64 mg/l	Grab
Chloride	Biweekly	56 mg/l	47 mg/l	Grab
Conductivity	Biweekly	865 umhos	721 umhos	Grab
Alkalinity	Biweekly	305 mg/l	254 mg/l	Grab
Water Level	Biweekly	Reading will be reported to the nearest 0.1 ft. from the land surface.		
Barometric Pressure	Biweekly			

Sample(s) taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
at the well head.

Footnote(s) referenced to Part II, C

PART IV. RESTORATION TABLE PT-2

Parameter	Restoration Value <sup>2</sup>	Parameter	Restoration Value <sup>2</sup>
As	0.05	Mo	1.00
B	1.018	Na	500
Ba	1.00	NH <sub>4</sub> as N	0.50
Ca	104	Ni	0.20
Cd	0.038	NO <sub>2</sub> as N	1.00
Cl	250	NO <sub>3</sub> as N	10.00
CO <sub>3</sub>	*	Pb	0.05
Cr	0.05	pH	6.5-8.5 S.U.
Cu	1.00	Ra-226	76 pCi/l
F	2.40	Se	0.01
Fe	1.00	SO <sub>4</sub>	600
HCO <sub>3</sub>	*	TDS <sup>4</sup>	1200
Hg	0.002	*Total Carbonate	< 600
K	155	U	5.0
Mg	27	V	0.045
Mn	.20	Zn	5.0

<sup>1</sup> Restoration values shall be determined after all the wells are drilled and sampled using the following procedure:

A. If a drinking water standard exists for the parameters, that standard shall be used unless a standard is exceeded by the baseline mean plus a 95% confidence level, as determined by the Department using preoperational sampling data. (The values on this table that are standards are subject to change by this procedure.)

B. If no standard exists for a parameter (other than the major ions), statistical baseline mean plus a 95% confidence level shall be calculated from the preoperational sampling data.

C. Because the major ions are dependent on each other and comprise the TDS, one order of magnitude above baseline mean shall be used, due to the ability of these ions to vary one order of magnitude depending on pH.

D. Total Carbonate (CO<sub>3</sub> + HCO<sub>3</sub>) shall not exceed 50% of the TDS value.

<sup>2</sup> All values are in mg/l unless otherwise specified.

Should the permittee find it necessary to deviate from the restoration values the permittee shall provide, for the Department's approval, a written justification for alternative values. The adoption of alternate values shall not, in and of itself, indicate a failure to successfully restore or prevent future commercial development.

Any changes in restoration values will be done in accordance with Chapter 27, Title 122 Rules and Regulations, Underground Injection and Mineral Production Wells. This chapter provides for public notice and an opportunity for a public hearing regarding changes in the permit.

PART IV. RESTORATION TABLE PT-3

Parameter	Restoration Value <sup>2</sup>	Parameter	Restoration Value <sup>2</sup>
As	0.05	Mo	1.00
B	0.942	Na	500
Ba	1.00	NH <sub>4</sub> as N	0.57
Ca	127	Ni	0.20
Cd	0.01	NO <sub>2</sub> as N	1.00
Cl	250	NO <sub>3</sub> as N	10.00
CO <sub>3</sub>	*	Pb	0.05
Cr <sup>3</sup>	0.05	pH	6.5-8.6 S.U.
Cu	1.00	Ra-226	72 pCi/l
F	2.40	Se	0.01
Fe	1.00	SO <sub>4</sub>	600
HCO <sub>3</sub>	*	TDS <sup>4</sup>	1125
Hg <sup>3</sup>	0.002	*Total Carbonate	< 563
K	112	U	5.0
Mg	34	V	0.010
Mn	.20	Zn	5.0

<sup>1</sup> Restoration values shall be determined after all the wells are drilled and sampled using the following procedure:

A. If a drinking water standard exists for the parameters, that standard shall be used unless a standard is exceeded by the baseline mean plus a 95% confidence level, as determined by the Department using preoperational sampling data. (The values on this table that are standards are subject to change by this procedure.)

B. If no standard exists for a parameter (other than the major ions), statistical baseline mean plus a 95% confidence level shall be calculated from the preoperational sampling data.

C. Because the major ions are dependent on each other and comprise the TDS, one order of magnitude above baseline mean shall be used, due to the ability of these ions to vary one order of magnitude depending on pH.

D. Total Carbonate (CO<sub>3</sub> + HCO<sub>3</sub>) shall not exceed 50% of the TDS value.

<sup>2</sup> All values are in mg/l unless otherwise specified.

Should the permittee find it necessary to deviate from the restoration values the permittee shall provide, for the Department's approval, a written justification for alternative values. The adoption of alternate values shall not, in and of itself, indicate a failure to successfully restore or prevent future commercial development.

Any changes in restoration values will be done in accordance with Chapter 27, Title 122 Rules and Regulations, Underground Injection and Mineral Production Wells. This chapter provides for public notice and an opportunity for a public hearing regarding changes in the permit.

PART IV. RESTORATION TABLE PT-5

Parameter	Restoration Value <sup>2</sup>	Parameter	Restoration Value <sup>2</sup>
As	0.05	Mo	1.00
B	1.086	Na	523
Ba	1.00	NH <sub>4</sub> as N	0.61
Ca	82	Ni	0.20
Cd	0.01	NO <sub>2</sub> as N	1.00
Cl	441	NO <sub>3</sub> as N	10.00
CO <sub>3</sub>	*	Pb	0.05
Cr <sup>3</sup>	0.05	pH	6.5-8.8 S.U.
Cu	1.00	Ra-226	732 pCi/l
F	2.40	Se	0.01
Fe	1.00	SO <sub>4</sub>	600
HCO <sub>3</sub>	*	TDS <sup>4</sup>	1494
Hg <sup>3</sup>	0.002	*Total Carbonate	< 747
K	154	U	5.0
Mg	23	V	0.01
Mn	.20	Zn	5.0

<sup>1</sup> Restoration values shall be determined after all the wells are drilled and sampled using the following procedure:

A. If a drinking water standard exists for the parameters, that standard shall be used unless a standard is exceeded by the baseline mean plus a 95% confidence level, as determined by the Department using preoperational sampling data. (The values on this table that are standards are subject to change by this procedure.)

B. If no standard exists for a parameter (other than the major ions), statistical baseline mean plus a 95% confidence level shall be calculated from the preoperational sampling data.

C. Because the major ions are dependent on each other and comprise the TDS, one order of magnitude above baseline mean shall be used, due to the ability of these ions to vary one order of magnitude depending on pH.

D. Total Carbonate (CO<sub>3</sub> + HCO<sub>3</sub>) shall not exceed 50% of the TDS value.

<sup>2</sup> All values are in mg/l unless otherwise specified.

Should the permittee find it necessary to deviate from the restoration values the permittee shall provide, for the Department's approval, a written justification for alternative values. The adoption of alternate values shall not, in and of itself, indicate a failure to successfully restore or prevent future commercial development.

Any changes in restoration values will be done in accordance with Chapter 27, Title 122 Rules and Regulations, Underground Injection and Mineral Production Wells. This chapter provides for public notice and an opportunity for a public hearing regarding changes in the permit.



PART IV. RESTORATION TABLE PT-7

<u>Parameter</u>	<u>Restoration Value<sup>2</sup></u>	<u>Parameter</u>	<u>Restoration Value<sup>2</sup></u>
As	0.05	Mo	1.00
B	1.017	Na	500
Ba	1.00	NH <sub>4</sub> as N	0.50
Ca	156	Ni	0.20
Cd	0.01	NO <sub>2</sub> as N	1.00
Cl	250	NO <sub>3</sub> as N	10.00
CO <sub>3</sub>	*	Pb	0.05
Cr <sup>3</sup>	0.05	pH	6.5-8.5 S.U.
Cu	1.00	Ra-226	232 pCi/l
F	2.40	Se	0.01
Fe	1.00	SO <sub>4</sub>	600
HCO <sub>3</sub>	*	TDS <sup>4</sup>	1172
Hg <sup>3</sup>	0.002	*Total Carbonate	586
K	118	U	5.0
Mg	36	V	0.044
Mn	.20	Zn	5.0

<sup>1</sup> Restoration values shall be determined after all the wells are drilled and sampled using the following procedure:

A. If a drinking water standard exists for the parameters, that standard shall be used unless a standard is exceeded by the baseline mean plus a 95% confidence level, as determined by the Department using preoperational sampling data. (The values on this table that are standards are subject to change by this procedure.)

B. If no standard exists for a parameter (other than the major ions), statistical baseline mean plus a 95% confidence level shall be calculated from the preoperational sampling data.

C. Because the major ions are dependent on each other and comprise the TDS, one order of magnitude above baseline mean shall be used, due to the ability of these ions to vary one order of magnitude depending on pH.

D. Total Carbonate (CO<sub>3</sub> + HCO<sub>3</sub>) shall not exceed 50% of the TDS value.

<sup>2</sup> All values are in mg/l unless otherwise specified.

Should the permittee find it necessary to deviate from the restoration values the permittee shall provide, for the Department's approval, a written justification for alternative values. The adoption of alternate values shall not, in and of itself, indicate a failure to successfully restore or prevent future commercial development.

Any changes in restoration values will be done in accordance with Chapter 27, Title 122 Rules and Regulations, Underground Injection and Mineral Production Wells. This chapter provides for public notice and an opportunity for a public hearing regarding changes in the permit.



PART IV. RESTORATION TABLE PT-8

Parameter	Restoration Value <sup>2</sup>	Parameter	Restoration Value <sup>2</sup>
As	0.05	Mo	1.00
B	1.045	Na	500
Ba	1.00	NH <sub>4</sub> as N	0.50
Ca	148	Ni	0.20
Cd	0.01	NO <sub>2</sub> as N	1.00
Cl	250	NO <sub>3</sub> as N	10.00
CO <sub>3</sub>	*	Pb	0.05
Cr <sup>3</sup>	0.05	pH	6.5-8.5 S.U.
Cu	1.00	Ra-226	127 pCi/l
F	2.40	Se	0.01
Fe	1.00	SO <sub>4</sub>	600
HCO <sub>3</sub>	*	TDS <sup>4</sup>	1170
Hg <sup>3</sup>	0.002	*Total Carbonate	< 585
K	128	U	5.0
Mg	28	V	0.055
Mn	.20	Zn	5.0

<sup>1</sup> Restoration values shall be determined after all the wells are drilled and sampled using the following procedure:

A. If a drinking water standard exists for the parameters, that standard shall be used unless a standard is exceeded by the baseline mean plus a 95% confidence level, as determined by the Department using preoperational sampling data. (The values on this table that are standards are subject to change by this procedure.)

B. If no standard exists for a parameter (other than the major ions), statistical baseline mean plus a 95% confidence level shall be calculated from the preoperational sampling data.

C. Because the major ions are dependent on each other and comprise the TDS, one order of magnitude above baseline mean shall be used, due to the ability of these ions to vary one order of magnitude depending on pH.

D. Total Carbonate (CO<sub>3</sub> + HCO<sub>3</sub>) shall not exceed 50% of the TDS value.

<sup>2</sup> All values are in mg/l unless otherwise specified.

Should the permittee find it necessary to deviate from the restoration values the permittee shall provide, for the Department's approval, a written justification for alternative values. The adoption of alternate values shall not, in and of itself, indicate a failure to successfully restore or prevent future commercial development.

Any changes in restoration values will be done in accordance with Chapter 27, Title 122 Rules and Regulations, Underground Injection and Mineral Production Wells. This chapter provides for public notice and an opportunity for a public hearing regarding changes in the permit.

PART IV. RESTORATION TABLE PT-21

Parameter	Restoration Value <sup>2</sup>	Parameter	Restoration Value <sup>2</sup>
As	0.05	Mo	1.00
B	1.112	Na	500
Ba	1.00	NH <sub>4</sub> as N	0.50
Ca	160	Ni	0.20
Cd	0.01	NO <sub>2</sub> as N	1.00
Cl	250	NO <sub>3</sub> as N	10.00
CO <sub>3</sub>	*	Pb	0.05
Cr	0.05	pH	6.5-8.5 S.U.
Cu	1.00	Ra-226	1611 pCi/l
F	2.40	Se	0.01
Fe	1.00	SO <sub>4</sub>	600
HCO <sub>3</sub>	*	TDS <sup>4</sup>	1186
Hg	0.002	*Total Carbonate	< 593
K	112	U	5.0
Mg	40	V	0.01
Mn	.20	Zn	5.0

<sup>1</sup> Restoration values shall be determined after all the wells are drilled and sampled using the following procedure:

A. If a drinking water standard exists for the parameters, that standard shall be used unless a standard is exceeded by the baseline mean plus a 95% confidence level, as determined by the Department using preoperational sampling data. (The values on this table that are standards are subject to change by this procedure.)

B. If no standard exists for a parameter (other than the major ions), statistical baseline mean plus a 95% confidence level shall be calculated from the preoperational sampling data.

C. Because the major ions are dependent on each other and comprise the TDS, one order of magnitude above baseline mean shall be used, due to the ability of these ions to vary one order of magnitude depending on pH.

D. Total Carbonate (CO<sub>3</sub> + HCO<sub>3</sub>) shall not exceed 50% of the TDS value.

<sup>2</sup> All values are in mg/l unless otherwise specified.

Should the permittee find it necessary to deviate from the restoration values the permittee shall provide, for the Department's approval, a written justification for alternative values. The adoption of alternate values shall not, in and of itself, indicate a failure to successfully restore or prevent future commercial development.

Any changes in restoration values will be done in accordance with Chapter 27, Title 122 Rules and Regulations, Underground Injection and Mineral Production Wells. This chapter provides for public notice and an opportunity for a public hearing regarding changes in the permit.

PART IV. RESTORATION TABLE PT-22

<u>Parameter</u>	<u>Restoration Value</u> <sup>2</sup>	<u>Parameter</u>	<u>Restoration Value</u> <sup>2</sup>
As	0.05	Mo	1.00
B	1.184	Na	500
Ba	1.00	NH <sub>4</sub> as N	0.50
Ca	151	Ni	0.20
Cd	0.01	NO <sub>2</sub> as N	1.00
Cl	250	NO <sub>3</sub> as N	10.00
CO <sub>3</sub>	*	Pb	0.05
Cr <sup>3</sup>	0.05	pH	6.5-8.5 S.U.
Cu	1.00	Ra-226	1281 pCi/l
F	2.40	Se	0.01
Fe	1.00	SO <sub>4</sub>	600
HCO <sub>3</sub>	*	TDS <sup>4</sup>	1157
Hg <sup>3</sup>	0.002	*Total Carbonate	579
K	116	U	5.0
Mg	38	V	0.01
Mn	.20	Zn	5.0

<sup>1</sup> Restoration values shall be determined after all the wells are drilled and sampled using the following procedure:

A. If a drinking water standard exists for the parameters, that standard shall be used unless a standard is exceeded by the baseline mean plus a 95% confidence level, as determined by the Department using preoperational sampling data. (The values on this table that are standards are subject to change by this procedure.)

B. If no standard exists for a parameter (other than the major ions), statistical baseline mean plus a 95% confidence level shall be calculated from the preoperational sampling data.

C. Because the major ions are dependent on each other and comprise the TDS, one order of magnitude above baseline mean shall be used, due to the ability of these ions to vary one order of magnitude depending on pH.

D. Total Carbonate (CO<sub>3</sub> + HCO<sub>3</sub>) shall not exceed 50% of the TDS value.

<sup>2</sup> All values are in mg/l unless otherwise specified.

Should the permittee find it necessary to deviate from the restoration values the permittee shall provide, for the Department's approval, a written justification for alternative values. The adoption of alternate values shall not, in and of itself, indicate a failure to successfully restore or prevent future commercial development.

Any changes in restoration values will be done in accordance with Chapter 27, Title 122 Rules and Regulations, Underground Injection and Mineral Production Wells. This chapter provides for public notice and an opportunity for a public hearing regarding changes in the permit.

PART IV. RESTORATION TABLE PT-23

Parameter	Restoration Value <sup>2</sup>	Parameter	Restoration Value <sup>2</sup>
As	0.05	Mo	1.00
B	1.101	Na	500
Ba	1.00	NH <sub>4</sub> as N	0.50
Ca	152	Ni	0.20
Cd	0.01	NO <sub>2</sub> as N	1.00
Cl	250	NO <sub>3</sub> as N	10.00
CO <sub>3</sub>	*	Pb	0.05
Cr <sup>3</sup>	0.05	pH	6.5-8.5 S.U.
Cu	1.00	Ra-226	52 pCi/l
F	2.40	Se	0.01
Fe	1.00	SO <sub>4</sub>	600
HCO <sub>3</sub>	*	TDS <sup>4</sup>	1147
Hg <sup>3</sup>	0.002	*Total Carbonate	< 574
K	105	U	5.0
Mg	39	V	0.01
Mn	.20	Zn	5.0

<sup>1</sup> Restoration values shall be determined after all the wells are drilled and sampled using the following procedure:

A. If a drinking water standard exists for the parameters, that standard shall be used unless a standard is exceeded by the baseline mean plus a 95% confidence level, as determined by the Department using preoperational sampling data. (The values on this table that are standards are subject to change by this procedure.)

B. If no standard exists for a parameter (other than the major ions), statistical baseline mean plus a 95% confidence level shall be calculated from the preoperational sampling data.

C. Because the major ions are dependent on each other and comprise the TDS, one order of magnitude above baseline mean shall be used, due to the ability of these ions to vary one order of magnitude depending on pH.

D. Total Carbonate (CO<sub>3</sub> + HCO<sub>3</sub>) shall not exceed 50% of the TDS value.

<sup>2</sup> All values are in mg/l unless otherwise specified.

Should the permittee find it necessary to deviate from the restoration values the permittee shall provide, for the Department's approval, a written justification for alternative values. The adoption of alternate values shall not, in and of itself, indicate a failure to successfully restore or prevent future commercial development.

Any changes in restoration values will be done in accordance with Chapter 27, Title 122 Rules and Regulations, Underground Injection and Mineral Production Wells. This chapter provides for public notice and an opportunity for a public hearing regarding changes in the permit.

PART IV. RESTORATION TABLE PT-24

Parameter	Restoration Value <sup>2</sup>	Parameter	Restoration Value <sup>2</sup>
As	0.05	Mo	1.00
B	1.081	Na	500
Ba	1.00	NH <sub>4</sub> as N	0.50
Ca	125	Ni	0.20
Cd	0.01	NO <sub>2</sub> as N	1.00
Cl	305	NO <sub>3</sub> as N	10.00
CO <sub>3</sub>	*	Pb	0.05
Cr <sup>3</sup>	0.05	pH	6.5-8.5 S.U.
Cu	1.00	Ra-226	1436 pCi/l
F	2.40	Se	0.01
Fe	1.00	SO <sub>4</sub>	600
HCO <sub>3</sub>	*	TDS <sup>4</sup>	1277
Hg	0.002	*Total Carbonate	< 639
K	129	U	5.0
Mg	38	V	0.01
Mn	.20	Zn	5.0

<sup>1</sup> Restoration values shall be determined after all the wells are drilled and sampled using the following procedure:

A. If a drinking water standard exists for the parameters, that standard shall be used unless a standard is exceeded by the baseline mean plus a 95% confidence level, as determined by the Department using preoperational sampling data. (The values on this table that are standards are subject to change by this procedure.)

B. If no standard exists for a parameter (other than the major ions), statistical baseline mean plus a 95% confidence level shall be calculated from the preoperational sampling data.

C. Because the major ions are dependent on each other and comprise the TDS, one order of magnitude above baseline mean shall be used, due to the ability of these ions to vary one order of magnitude depending on pH.

D. Total Carbonate (CO<sub>3</sub> + HCO<sub>3</sub>) shall not exceed 50% of the TDS value.

<sup>2</sup> All values are in mg/l unless otherwise specified.

Should the permittee find it necessary to deviate from the restoration values the permittee shall provide, for the Department's approval, a written justification for alternative values. The adoption of alternate values shall not, in and of itself, indicate a failure to successfully restore or prevent future commercial development.

Any changes in restoration values will be done in accordance with Chapter 27, Title 122 Rules and Regulations, Underground Injection and Mineral Production Wells. This chapter provides for public notice and an opportunity for a public hearing regarding changes in the permit.



PART IV. RESTORATION TABLE PT-25

<u>Parameter</u>	<u>Restoration Value</u> <sup>2</sup>	<u>Parameter</u>	<u>Restoration Value</u> <sup>2</sup>
As	0.05	Mo	1.00
B	1.229	Na	500
Ba	1.00	NH <sub>4</sub> as N	0.50
Ca	128	Ni	0.20
Cd	0.01	NO <sub>2</sub> as N	1.00
Cl	250	NO <sub>3</sub> as N	10.00
CO <sub>3</sub>	*	Pb	0.05
Cr <sup>3</sup>	0.05	pH	6.5-8.7 S.U.
Cu	1.00	Ra-226	387 pCi/l
F	2.40	Se	0.01
Fe	1.00	SO <sub>4</sub>	600
HCO <sub>3</sub>	*	TDS <sup>4</sup>	1168
Hg <sup>3</sup>	0.002	*Total Carbonate	< 584
K	124	U	5.0
Mg	30	V	0.01
Mn	.20	Zn	5.0

<sup>1</sup> Restoration values shall be determined after all the wells are drilled and sampled using the following procedure:

A. If a drinking water standard exists for the parameters, that standard shall be used unless a standard is exceeded by the baseline mean plus a 95% confidence level, as determined by the Department using preoperational sampling data. (The values on this table that are standards are subject to change by this procedure.)

B. If no standard exists for a parameter (other than the major ions), statistical baseline mean plus a 95% confidence level shall be calculated from the preoperational sampling data.

C. Because the major ions are dependent on each other and comprise the TDS, one order of magnitude above baseline mean shall be used, due to the ability of these ions to vary one order of magnitude depending on pH.

D. Total Carbonate (CO<sub>3</sub> + HCO<sub>3</sub>) shall not exceed 50% of the TDS value.

<sup>2</sup> All values are in mg/l unless otherwise specified.

Should the permittee find it necessary to deviate from the restoration values the permittee shall provide, for the Department's approval, a written justification for alternative values. The adoption of alternate values shall not, in and of itself, indicate a failure to successfully restore or prevent future commercial development.

Any changes in restoration values will be done in accordance with Chapter 27, Title 122 Rules and Regulations, Underground Injection and Mineral Production Wells. This chapter provides for public notice and an opportunity for a public hearing regarding changes in the permit.



# BOND RIDER

TO BE ATTACHED TO AND FORMS PART OF BOND NUMBER FS 47925 ISSUED BY  
**EMPIRE FIRE & MARINE INSURANCE COMPANY, SURETY, OMAHA, NEBRASKA**

PRINCIPAL WYOMING FUEL COMPANY, P.O. BOX 15596 LAKEWOOD, COLORADO 80215

OBLIGEE DEPARTMENT OF ENVIROMENTAL CONTROL - STATE OF NEBRASKA

EFFECTIVE DATE OF BOND 2-18-85

IN CONSIDERATION OF THE PREMIUM CHARGED, IT IS AGREED THAT:

Eff: 4-30-86

The above name & address of the principal is changed to,

FERRET EXPLORATION COMPANY OF NEBRASKA, INC.  
SUITE 300  
1800 GLENARM PLACE  
DENVER, COLORADO 80202

RECEIVED  
MAY 1 1986  
DEPT. OF ENVIRONMENTAL CONTROL

PROVIDED, HOWEVER, THAT ALL OTHER AGREEMENTS, LIMITATIONS, AND CONDITIONS OF THE BOND TO WHICH THIS RIDER IS ATTACHED REMAIN UNCHANGED AND THAT THE LIABILITY OF THE SURETY UNDER THE BOND AND THE RIDER SHALL NOT BE CUMULATIVE.

EMPIRE FIRE & MARINE INSURANCE CO.

BY Steven R. Sell  
TITLE Steven R. Sell Vice President

THIS COPY TO BE SENT TO OBLIGEE

## ACKNOWLEDGMENT OF SURETY

STATE OF Nebraska  
COUNTY OF Douglas

On this 30th day of April, 19 86, before me, a notary public in and for said County, personally appeared Steven R. Sell to me personally known and being by me duly sworn, did say, that he is the Vice President of the EMPIRE FIRE & MARINE INS. CO., a corporation of Omaha, Nebraska, created, organized and existing under and by virtue of the laws of the State of Nebraska, that the said instrument was executed on behalf of the said corporation by authority of its Board of Directors and that the said Steven R. Sell acknowledges said instrument to be the free act and deed of said corporation and that he has authority to sign said instrument without affixing the corporate seal of said corporation.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my official seal at Omaha, Nebraska, the day and year last above written.



July 7, 19 87

Patricia A. Dillon

NOTARY PUBLIC

## PREMIUM CHARGED

ORIGINAL	CASH	
	ADDITIONAL	RETURN