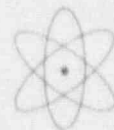


FERRET EXPLORATION COMPANY OF NEBRASKA, INC.

P.O. Box 169
Crawford, Nebraska 69339

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

40-8943



0400 8943430E

RETURN ORIGINAL TO PDR, HQ.

November 19, 1992

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

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

Dear Mr. Hall:

Ferret Exploration Company of Nebraska, Inc. (FEN) has completed construction of a portion of Mine Unit 3, including all monitor and restoration wells, at the Crow Butte facility. License Condition 44 requires submittal of baseline water quality data for all production units from wells established in the mining zone, mining zone perimeter monitors and the upper aquifer monitors. License Condition 44 also requires that FEN propose, in the form of a license amendment, upper control limits (UCL's) for all monitoring wells in the mine unit and the restoration standards for the unit.

Enclosed please find the following data for Mine Unit 3:

- Baseline water quality analyses for ten (10) perimeter monitor wells and three (3) shallow monitor wells.
- Proposed Upper Control Limits (UCL's) for all monitor wells.
- Baseline water quality for thirteen (13) restoration wells. Mine Unit 3 is approximately twelve acres in size.
- Proposed restoration standards for Mine Unit 3 based on the criteria set forth in Nebraska Department of Environmental Quality Permit No. NE0122611, Part II, D.2.
- A map showing the location of all wells in Mine Unit 3.

This information has been submitted to the Nebraska Department of Environmental Quality (NDEQ) as part of the Notice of Intent to Operate. Upon approval by NDEQ of the Notice of Intent to Operate, FEN proposes to discontinue sampling Mine Unit 1 monitor wells CM1-1, CM1-2, CM1-10 and CM1-11 (which now fall within Mine Unit 3) and begin sampling the Mine Unit 3 monitor wells on a biweekly basis. BL-5 and CM1-2 have been renamed I-371 and I-372 respectively.

9301110243 921119
PDR ADDCK 04008943
C PDR

VAL

080033

Certified By Mary C. Nord

93-0083

92 NOV 23 AM 11:22

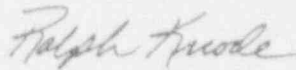
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Mr. Ramon Hall
November 19, 1992
Page Two

FEN desires to bring part of Mine Unit 3 on line the first part of January. Your prompt attention to this matter would be greatly appreciated. Should you have any questions on this amendment request, please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ralph Knode".

Ralph Knode
Vice President

Enclosures (4)

MINE UNIT 3
BASELINE WATER QUALITY ANALYSES
MONITOR WELLS



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

FEPRET EXPLORATION COMPANY OF NEBRASKA, INC. - BASELINE WATER ANALYSIS REPORT

PROJECT: CROW BUTTE PROJECT

Sample Identification:	CM 3-1	CM 3-1	CM 3-1		
Sample Date:	Round 1	Round 2	Round 3		
Report Date:	09-25-92	10-09-92	10-23-92		
Laboratory I.D. #:	92-35561	92-40806	92-41799	Mean	Standard Deviation

MAJOR IONS mg/l:

Ca - Calcium	13.0	12.6	14.9	13.500	1.229
Mg - Magnesium	3.0	3.2	4.0	3.567	0.513
Na - Sodium	13.0	13.5	14.3	13.900	0.777
K - Potassium	0.0	0.7	1.1	0.600	0.345
CO ₃ - Carbonate	0.0	0.0	0.0	0.000	0.000
HCO ₃ - Bicarbonate	3.74	3.78	3.33	3.617	0.256
SO ₄ - Sulfate	3.72	3.81	4.43	3.987	0.351
Cl - Chloride	2.25	1.94	1.95	2.047	0.211
NH ₄ - Ammonium	0.33	0.28	0.35	0.323	0.040
NO ₂ - Nitrite	<0.10	<0.10	<0.10	<0.100	0.000
NO ₃ - Nitrate	<0.10	<0.10	<0.10	<0.100	0.000
F - Fluoride	0.68	0.48	0.95	0.703	0.235
SiO ₂ - Silica	11.4	12.1	11.0	11.500	0.557
TDS - Total Dissolved Solids	1182	1125	1234	1180.333	55.49
EC - Conductivity (umho/cm)	1756	1841	1940	1845.333	100.67
Alk - Alkalinity as CaCO ₃	308	310	282	300	15.13
pH (std units)	8.27	8.26	8.49	8.340	0.130

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	≤0.100	0.000
As - Arsenic	<0.001	<0.001	<0.001	≤0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	≤0.100	0.000
B - Boron	1.00	0.90	0.87	0.923	0.068
Cd - Cadmium	<0.01	<0.01	<0.01	≤0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	≤0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	≤0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	≤0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	≤0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	≤0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	≤0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	≤0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	≤0.050	0.000
Se - Selenium	0.002	<0.001	<0.001	≤0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	≤0.100	0.000
Zn - Zinc	<0.01	<0.01	0.01	≤0.010	0.000

RADIOACTIVE pCi/l:

U-nat - Uranium Natural (mg/l)	0.024	0.020	0.021	0.022	0.002
Ra226 - Radium 226	64.7	61.1	76.1	67.300	7.831
Radium 226 Precision +/-	2.9	2.6	3.1	2.867	0.252

Quality Assurance Data:

Anion Milliequivalents	20.27	19.22	20.10
Cation Milliequivalents	20.84	20.25	19.37
Anion-Cation Balance	1.381	2.632	-1.833
Calculated TDS mg/l	1276	1228	1250
TDS Balance A/C %	0.926	0.916	0.987

REPORT APPROVED BY:
tld



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. - BASELINE WATER ANALYSIS REPORT

PROJECT: CROW BUTTE PROJECT

Sample Identification:	CM 3-2	CM 3-2	CM 3-2		
	Round 1	Round 2	Round 3		
Sample Date:	09-25-92	10-09-92	10-23-92		
Report Date:	10-30-92	11-04-92	11-12-92		
Laboratory I.D. #:	92-35559	92-40804	92-41798	Mean	Standard Deviation

MAJOR IONS mg/l:

Ca - Calcium	12.0	10.6	13.4	12.000	1.400
Mg - Magnesium	3.0	2.8	3.2	3.000	0.200
Na - Sodium	12.4	4.2	4.2	11.7	11.012
K - Potassium	13.0	11.8	11.8	11.5	1.617
CO ₃ - Carbonate	0.0	0.7	0.5	0.5	0.115
HCO ₃ - Bicarbonate	0.0	3.5	3.5	3.5	6.026
SO ₄ - Sulfate	0.0	3.6	4.1	3.8	25.981
Cl - Chloride	0.0	1.7	1.8	1.8	12.503
NH ₄ - Ammonium	0.39	0.28	0.34	0.3	0.055
NO ₂ - Nitrite	<0.10	<0.10	<0.10	<0.10	0.000
NO ₃ - Nitrate	<0.10	<0.10	<0.10	<0.10	0.000
F - Fluoride	0.65	0.62	1.03	0.7	0.229
SiO ₂ - Silica	11.5	14.7	13.0	13.1	1.551
TDS - Total Dissolved Solids	12.8	11.2	12.8	12.3	71.820
EC - Conductivity (umho/cm)	1776	1787	1925	1899	83.032
Alk - Alkalinity as CaCO ₃	10.2	9.5	10.9	10.2	5.033
pH (std units)	8.51	8.53	8.50	8.513	0.015

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	≤0.100	0.000
As - Arsenic	<0.001	<0.001	<0.001	≤0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	≤0.100	0.000
B - Boron	1.00	1.10	0.91	1.00	0.045
Cd - Cadmium	<0.01	<0.01	<0.01	≤0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	≤0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	≤0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	≤0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	≤0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	≤0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	≤0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	≤0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	≤0.050	0.000
Se - Selenium	0.002	<0.001	<0.001	≤0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	≤0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	≤0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.058	0.040	0.056	0.051	0.010
Ra226 - Radium 226	122.0	93.2	118	111.067	15.602
Radium 226 Precision +/-	4.0	3.2	3.9	3.700	0.436

Quality Assurance Data:

Anion Milliequivalents	19.47	18.54	20.08
Cation Milliequivalents	20.51	19.73	19.61
Anion-Cation Balance	2.558	3.111	-1.207
Calculated TDS mg/l	1241	1193	1252
TDS Balance A/C %	0.990	0.941	1.010

REPORT APPROVED BY:

tlc



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. - BASELINE WATER ANALYSIS REPORT

PROJECT: CROW BUTTE PROJECT

Sample Identification:

Sample Date:

Report Date:

Laboratory I.D. #:

CM 3-3

Round 1

09-25-92

92-355582

CM 3-3

Round 2

10-09-92

92-40802

CM 3-3

Round 3

10-23-92

92-41797

Mean

Standard
Deviation

MAJOR IONS mg/l:

Ca - Calcium	14.0	11.8	12.7	12.833	1.106
Mg - Magnesium	2.0	2.1	2.2	2.1	0.441
Na - Sodium	4.3	4.5	4.4	4.4	0.441
K - Potassium	15.0	11.9	10.6	12.5	1.201
CO ₃ - Carbonate	8.0	8.0	8.0	8.0	0.441
HCO ₃ - Bicarbonate	34.0	33.1	32.0	33.033	0.441
SO ₄ - Sulfate	18.6	17.7	16.8	17.7	0.441
Cl - Chloride	1.99	1.77	1.68	1.813	0.000
NH ₄ - Ammonium	0.31	0.28	0.31	0.3	0.017
NO ₂ - Nitrite	<0.10	<0.10	<0.10	<0.10	0.000
NO ₃ - Nitrate	<0.10	<0.10	<0.10	<0.10	0.000
F - Fluoride	0.79	0.62	0.95	0.787	0.165
SiO ₂ - Silica	12.2	12.6	12.3	12.367	0.441
TDS - Total Dissolved Solids	124.5	106.6	122.3	117.8	0.441
EC - Conductivity (umho/cm)	174.2	178.1	190.4	180.9	0.441
Alk - Alkalinity as CaCO ₃	291	282	281	288	0.441
pH (std units)	8.66	8.63	8.64	8.643	0.015

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	<0.100	0.000
As - Arsenic	<0.001	<0.001	<0.001	<0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	0.90	1.10	1.21	1.07	0.157
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	<0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	0.01	0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	<0.001	<0.001	<0.001	<0.001	0.000
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	<0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.136	0.079	0.154	0.123	0.039
Ra226 - Radium 226	177.0	126	180	161.000	30.348
Radium 226 Precision +/-	4.8	3.7	4.9	4.467	0.655

Quality Assurance Data:

Anion Milliequivalents	18.95	18.50	19.75
Cation Milliequivalents	19.89	19.64	19.13
Anion-Cation Balance	2.421	2.986	-1.590
Calculated TDS mg/l	1205	1193	1239
TDS Balance A/C %	1.033	0.919	0.987

REPORT APPROVED BY:

tld



ENERGY LABORATORIES, INC.

P.O. BOX 3254 • 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. - BASELINE WATER ANALYSIS REPORT

PROJECT: CROW BUTTE PROJECT

Sample Identification:	CM 3-4A	CM 3-4A	CM 3-4A		
	Round 1	Round 2	Round 3		
Sample Date:	09-25-92	10-09-92	10-23-92		
Report Date:	10-30-92	11-04-92	11-12-92		
Laboratory I.D. #:	92-35556	92-40802	92-41796	Mean	Standard Deviation

MAJOR IONS mg/l:

Ca - Calcium	15.0	13.6	16.7	15.100	1.552
Mg - Magnesium	4.0	3.3	4.1	3.800	0.436
Na - Sodium	4.1	4.18	4.33	4.22	0.117
K - Potassium	12.0	15.1	11.2	12.100	0.534
CO ₃ - Carbonate	0	0	0	0.000	0.000
HCO ₃ - Bicarbonate	346	337	351	344.67	7.092
SO ₄ - Sulfate	377	335	418	373.33	31.974
Cl - Chloride	186	177	195	186.00	9.000
NH ₄ - Ammonium	0.43	0.22	0.31	0.320	0.105
NO ₂ - Nitrite	<0.10	<0.10	<0.10	0.100	0.000
NO ₃ - Nitrate	<0.10	<0.10	<0.10	0.100	0.000
F - Fluoride	0.79	0.60	1.06	0.817	0.231
SiO ₂ - Silica	11.9	14.5	11.5	12.633	1.629
TDS - Total Dissolved Solids	1125	1090	1262	1159.00	90.901
EC - Conductivity (umho/cm)	1756	1761	1934	1817.00	101.36
Alk - Alkalinity as CaCO ₃	843	826	892	853.67	8.021
pH (std units)	8.27	8.16	8.24	8.207	0.042

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	<0.100	0.500
As - Arsenic	<0.001	<0.001	<0.001	<0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	0.90	1.10	0.80	0.933	0.153
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	<0.01	<0.01	0.01	<0.010	0.000
Fe - Iron	<0.05	<0.05	0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	0.01	<0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	0.002	<0.001	<0.001	<0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	<0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.004	0.022	0.002	0.009	0.011
Pa226 - Radium 226	3.7	3.6	17.1	8.200	7.708
Radium 226 Precision +/-	0.5	0.4	0.8	0.567	0.208

Quality Assurance Data:

Anion Milliequivalents	18.82	17.95	20.03
Cation Milliequivalents	20.18	19.50	20.30
Anion-Cation Balance	3.472	4.120	0.693
Calculated TDS mg/l	1212	1165	1267
TDS Balance A/C %	0.928	0.936	0.996

REPORT APPROVED BY:
tld



ENERGY LABORATORIES, INC.

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FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - GASLINE WATER ANALYSIS REPORT

PROJECT: CROW BUTTE PROJECT

Sample Identification:	CM 3-5 Round 1	CM 3-5 Round 2	CM 3-5 Round 3		
Sample Date:	06-25-92	10-09-92	10-23-92		
Report Date:	10-30-92	11-04-92	11-12-92		
Laboratory I.D. #:	92-35554	92-40801	92-41794	Mean	Standard Deviation

MAJOR IONS mg/l:

Ca - Calcium	9.0	10.9	9.34	9.767	1.002
Mg - Magnesium	2.0	2.4	2.34	2.240	0.400
Na - Sodium	44.9	42.6	43.86	43.77	11.985
K - Potassium	16.0	13.0	16.0	15.300	2.042
CO ₃ - Carbonate	13.3	8.1	10.6	10.667	1.389
HCO ₃ - Bicarbonate	22.3	34.5	33.4	33.400	14.000
SO ₄ - Sulfate	2.0	2.0	2.0	2.000	0.006
Cl - Chloride	2.1	1.9	2.01	2.007	14.844
NH ₄ - Ammonium	0.43	0.22	0.19	0.280	0.131
NO ₂ - Nitrite	<0.10	<0.10	<0.10	<0.100	0.000
NO ₃ - Nitrate	<0.10	<0.10	<0.10	<0.100	0.000
F - Fluoride	0.60	0.65	1.15	0.800	0.303
SiO ₂ - Silica	11.3	11.4	11.1	11.933	1.012
TDS - Total Dissolved Solids	114.7	112.4	115.6	114.233	32.960
EC - Conductivity (umho/cm)	179.1	187.0	193.4	187.167	81.312
Alk - Alkalinity as CaCO ₃	27.7	29.4	30.1	29.067	12.342
pH (std units)	8.66	8.62	8.73	8.670	0.056

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	<0.100	0.000
As - Arsenic	<0.001	<0.001	<0.001	<0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	1.00	0.80	0.91	0.903	0.100
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	<0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	0.002	<0.001	<0.001	<0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	<0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	<0.0003	<0.0003	0.009	<0.003	0.005
Ra226 - Radium 226	2.5	2.8	3.4	2.900	0.458
Radium 226 Precision +/-	0.3	0.3	0.4	0.333	0.058

Quality Assurance Data:

Anion Milliequivalents	19.05	19.20	20.27
Cation Milliequivalents	20.59	19.01	19.98
Anion-Cation Balance	3.891	1.077	-0.714
Calculated TDS mg/l	122.6	121.3	126.9
TDS Balance A/C %	0.935	0.927	0.937

REPORT APPROVED BY:
tld



ENERGY LABORATORIES, INC.

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

PROJECT: CROW BUTTE PROJECT

Sample Identification:	CM 3-6 Round 1	CM 3-6 Round 2	CM 3-6 Round 3		
Sample Date:	09-25-92	10-06-92	10-23-92		
Report Date:	10-30-92	11-04-92	11-12-92		
Laboratory I.D. #:	92-35553	92-40800	92-41793	Mean	Standard Deviation

MAJOR IONS mg/l:

Ca - Calcium	15.0	12.4	15.0	14.1	1.4
Mg - Magnesium	1.0	3.4	1.0	1.8	0.4
Na - Sodium	40.6	14.0	22.0	25.5	15.7
K - Potassium	0.0	0.4	0.5	0.3	0.2
CO3 - Carbonate	0.0	0.0	0.0	0.0	0.0
HCO3 - Bicarbonate	0.0	0.0	0.0	0.0	0.0
SO4 - Sulfate	0.0	0.0	0.0	0.0	0.0
Cl - Chloride	20.8	19.3	18.0	19.4	1.0
NH4 - Ammonium	0.43	0.22	0.25	0.30	0.11
NO2 - Nitrite	<0.10	<0.10	<0.10	0.10	0.00
NO3 - Nitrate	<0.10	<0.10	<0.10	0.10	0.00
F - Fluoride	0.0	0.0	0.0	0.0	0.0
SiO2 - Silica	12.0	11.1	14.0	12.4	1.4
TDS - Total Dissolved Solids	110.7	111.3	118.1	113.4	4.0
EC - Conductivity (umho/cm)	1794	1720	1861	1792	75.0
Alk - Alkalinity as CaCO3	281	244	206	244	113.5
pH (std units)	8.36	8.24	8.45	8.35	0.105

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	<0.100	0.000
As - Arsenic	<0.001	<0.001	<0.001	<0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	1.00	0.50	1.05	0.950	0.132
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	0.01	0.01	0.01	0.010	0.000
Fe - Iron	<0.05	<0.05	0.05	0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	0.002	<0.001	<0.001	<0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	<0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	<0.0003	0.001	0.001	<0.001	0.000
Ra226 - Radium 226	2.4	4.4	1.9	2.900	1.323
Radium 226 Precision +/-	0.3	0.4	0.4	0.367	0.058

Quality Assurance Data:

Anion Milliequivalents	19.09	18.97	19.59
Cation Milliequivalents	19.06	20.19	20.32
Anion-Cation Balance	-0.036	1.11	1.819
Calculated TDS mg/l	1184	1219	1250
TDS Balance A/C %	0.927	0.917	0.945

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

PROJECT: CROW BUTTE PROJECT

Sample Identification:

	CM 3-7 Round 1	CM 3-7 Round 2	CM 3-7 Round 3	Mean	Standard Deviation
Sample Date:	09-25-92	10-09-92	10-23-92		
Report Date:	10-30-92	11-04-92	11-13-92		
Laboratory I.D. #:	92-35552	92-40799	92-41791		

MAJOR IONS mg/l:

Ca - Calcium	12.0	14.8	18.2	15.000	3.105
Mg - Magnesium	3.0	3.8	4.6	3.800	0.900
Na - Sodium	4.7	4.0	4.6	4.433	0.357
K - Potassium	15.0	13.8	16.1	14.933	1.150
CO ₃ - Carbonate	0.0	0.0	0.0	0.000	0.000
HCO ₃ - Bicarbonate	3.63	3.64	3.65	3.640	0.005
SO ₄ - Sulfate	3.71	3.84	3.92	3.823	0.050
Cl - Chloride	1.44	1.33	1.35	1.373	0.050
NH ₄ - Ammonium	0.63	0.28	0.31	0.407	0.194
NO ₂ - Nitrite	0.10	0.10	0.10	0.100	0.000
NO ₃ - Nitrate	0.30	0.10	0.10	0.167	0.100
F - Fluoride	0.0	0.0	0.0	0.000	0.000
SiO ₂ - Silica	0.0	0.0	0.0	0.000	0.000
TDS - Total Dissolved Solids	11.04	11.87	12.57	11.800	0.510
EC - Conductivity (umho/cm)	298	298	298	298	0.001
Alk - Alkalinity as CaCO ₃	8.24	8.20	8.45	8.297	0.124
pH (std units)					

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	<0.100	0.000
As - Arsenic	<0.001	0.001	<0.001	<0.001	0.000
Ba - Barium	<0.10	0.90	<0.10	<0.357	0.482
B - Boron	1.00	<0.01	0.96	0.657	0.560
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	<0.01	<0.01	0.01	<0.010	0.000
Fe - Iron	<0.05	<0.05	0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	0.01	<0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	0.002	<0.001	<0.001	<0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	<0.01	0.01	0.01	<0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.007	0.013	0.012	0.011	0.003
Ra226 - Radium 226	8.9	8.4	7.5	7.600	0.753
Radium 226 Precision +/-	0.5	0.7	0.7	0.633	0.115

Quality Assurance Data:

Anion Milliequivalents	19.43	18.76	19.70
Cation Milliequivalents	19.86	20.57	21.15
Anion-Cation Balance	1.086	4.607	1.559
Calculated TDS mg/l	1232	1220	1269
TDS Balance A/C %	0.977	0.973	0.990

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

PROJECT: CROW BUTTE PROJECT

Sample Identification:	CM 3-8 Round 1	CM 3-8 Round 2	CM 3-8 Round 3		
Sample Date:	09-24-92	10-08-92	10-22-92		
Report Date:	10-30-92	11-04-92	11-12-92		
Laboratory I.D. #:	92-35551	92-40796	92-41790	Mean	Standard Deviation

MAJOR IONS mg/l:

Ca - Calcium	13.0	11.7	13.4	12.667	0.850
Mg - Magnesium	3.0	2.2	3.4	2.867	0.285
Na - Sodium	453	449	470	457.333	10.500
K - Potassium	20.0	20.0	25.2	21.733	2.600
CO ₃ - Carbonate	21.6	21.1	20.7	21.133	0.400
HCO ₃ - Bicarbonate	321	311	312	314.667	5.000
SO ₄ - Sulfate	160	160	140	153.333	10.000
Cl - Chloride	229	229	242	233.667	7.000
NH ₄ - Ammonium	<0.03	<0.05	0.25	0.110	0.200
NO ₂ - Nitrite	<0.10	<0.10	<0.10	<0.100	0.000
NO ₃ - Nitrate	2.20	2.20	0.95	1.783	0.600
F - Fluoride	0.99	0.50	1.10	0.860	0.200
SiO ₂ - Silica	11.8	13.6	13.3	12.900	0.964
TDS - Total Dissolved Solids	1197	1249	1261	1235.667	45.411
EC - Conductivity (umho/cm)	1972	2071	2108	2050.333	70.316
Alk - Alkalinity as CaCO ₃	293	290	285	289.333	4.041
pH (std units)	9.08	9.16	9.07	9.103	0.049

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	≤0.100	0.000
As - Arsenic	0.002	0.001	<0.001	≤0.001	0.001
Ba - Barium	<0.10	<0.10	<0.10	≤0.100	0.000
B - Boron	1.00	0.90	0.97	0.957	0.051
Cd - Cadmium	<0.01	<0.01	<0.01	≤0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	≤0.050	0.000
Cu - Copper	<0.01	<0.01	0.01	≤0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	≤0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	≤0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	≤0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	≤0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	≤0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	≤0.050	0.000
Se - Selenium	0.002	<0.001	<0.001	≤0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	≤0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	≤0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.013	0.035	0.013	0.020	0.013
Ra226 - Radium 226	7.3	5.6	7.4	6.767	1.012
Radium 226 Precision +/-	0.5	0.4	0.7	0.533	0.153

Quality Assurance Data:

Anion Milliequivalents	20.55	20.74	21.25
Cation Milliequivalents	21.17	21.91	22.07
Anion-Cation Balance	1.452	2.746	1.893
Calculated TDS mg/l	1304	1329	1358
TDS Balance A/C %	0.918	0.955	0.943

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

PROJECT: CROW BUTTE PROJECT

Sample Identification:

	CM 3-9 Round 1	CM 3-9 Round 2	CM 3-9 Round 3		
Sample Date:	08-24-92	10-08-92	10-22-92		
Report Date:	10-30-92	11-04-92	11-12-92		
Laboratory I.D. #:	92-35550	92-40733	92-41789	Mean	Standard Deviation

MAJOR IONS mg/l:

Ca - Calcium	14.0	11.7	12.6	12.767	1.156
Mg - Magnesium	4.0	4.4	4.6	4.333	0.400
Na - Sodium	439	416	422	425.67	13.428
K - Potassium	12.0	12.4	13.7	12.700	0.839
CO ₃ - Carbonate	4.7	4.6	4.7	4.633	0.028
HCO ₃ - Bicarbonate	4.9	4.5	4.4	4.733	0.082
SO ₄ - Sulfate	268	233	229	243.33	16.970
Cl - Chloride	201	178	156	178.00	11.533
NH ₄ - Ammonium	0.85	0.21	0.31	0.457	0.231
NO ₂ - Nitrite	<0.10	<0.10	<0.10	<0.100	0.000
NO ₃ - Nitrate	1.40	<0.10	<0.10	0.533	0.751
F - Fluoride	0.79	0.77	0.92	0.783	0.210
SiO ₂ - Silica	12.0	13.5	13.9	13.133	1.000
TDS - Total Dissolved Solids	1203	1117	1254	1191.33	67.882
EC - Conductivity (umho/cm)	1763	1326	1918	1669.00	77.931
Alk - Alkalinity as CaCO ₃	293	260	291	281.33	1.526
pH (std units)	8.38	8.39	8.38	8.383	0.006

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	≤0.100	0.000
As - Arsenic	<0.001	<0.001	<0.001	≤0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	≤0.100	0.000
B - Boron	1.00	0.90	1.29	0.997	0.095
Cd - Cadmium	<0.01	<0.01	<0.01	≤0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	≤0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	≤0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	≤0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	≤0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	≤0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	≤0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	≤0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	≤0.050	0.000
Se - Selenium	0.003	<0.001	<0.001	≤0.002	0.001
V - Vanadium	<0.10	<0.10	<0.10	≤0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	≤0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.016	0.038	0.013	0.022	0.014
Ra226 - Radium 226	24.7	20.8	22.9	22.800	1.900
Radium 226 Precision +/-	1.0	1.5	1.1	1.200	0.255

Quality Assurance Data:

Anion Milliequivalents	19.36	18.64	19.33		
Cation Milliequivalents	20.41	19.29	21.00		
Anion-Cation Balance	2.642	1.711	4.136		
Calculated TDS mg/l	1236	1187	1254		
TDS Balance A/C %	7.973	0.941	0.998		

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ERRET CORPORATION COMPANY OF NEBRASKA, INC. - BASELINE WATER ANALYSIS REPORT

PROJECT: CROW BUTTE PROJECT

Sample Identification:	CM 3-10 Round 1 09-23-92	CM 3-10 Round 2 10-08-92	CM 3-10 Round 3 10-22-92	Mean	Standard Deviation
Sample Date:	09-23-92	10-08-92	10-22-92		
Report Date:	10-30-92	11-04-92	11-11-92		
Laboratory I.D. #:	92-35549	92-40794	92-41785		

MAJOR IONS mg/l:

	CM 3-10 Round 1 09-23-92	CM 3-10 Round 2 10-08-92	CM 3-10 Round 3 10-22-92	Mean	Standard Deviation
Ca - Calcium	16.0	13.2	14.3	14.500	1.411
Mg - Magnesium	2.0	2.0	2.0	2.000	0.000
Na - Sodium	2.3	2.3	2.3	2.300	0.000
K - Potassium	3.0	3.0	3.0	3.000	0.000
CO ₃ - Carbonate	0.0	0.0	0.0	0.000	0.000
HCO ₃ - Bicarbonate	57	44	44	48.333	7.777
SO ₄ - Sulfate	7.0	7.0	7.0	7.000	0.000
Cl - Chloride	90	73	19	40.667	35.444
NH ₄ - Ammonium	0.50	0.23	0.42	0.383	0.185
NO ₂ - Nitrite	<0.10	<0.10	<0.10	0.000	0.000
NO ₃ - Nitrate	0.80	0.10	0.10	0.333	0.358
F - Fluoride	0.7	0.0	0.0	0.233	0.358
SiO ₂ - Silica	12	14	12	12.667	1.411
TDS - Total Dissolved Solids	1140	1000	1277	1139	100.000
EC - Conductivity (umho/cm)	236	180	289	235	40.000
Alk - Alkalinity as CaCO ₃	293	90	289	224	112.000
pH (std units)	8.14	8.38	8.41	8.310	0.148

TRACE METALS mg/l:

	CM 3-10 Round 1 09-23-92	CM 3-10 Round 2 10-08-92	CM 3-10 Round 3 10-22-92	Mean	Standard Deviation
Al - Aluminum	<0.10	<0.10	<0.10	<0.100	0.000
As - Arsenic	<0.002	<0.001	<0.001	<0.001	0.001
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	1.00	1.00	0.96	0.987	0.023
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	<0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	0.01	<0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	0.003	<0.001	<0.001	<0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	<0.010	0.000

RADIOMETRIC pCi/l:

	CM 3-10 Round 1 09-23-92	CM 3-10 Round 2 10-08-92	CM 3-10 Round 3 10-22-92	Mean	Standard Deviation
U-nat - Uranium Natural (mg/l)	0.021	0.006	0.015	0.014	0.008
Ra226 - Radium 226	23.2	30.6	24.6	27.800	4.015
Radium 226 Precision +/-	1.8	1.8	1.8	1.733	0.115

Quality Assurance Data:

	CM 3-10 Round 1 09-23-92	CM 3-10 Round 2 10-08-92	CM 3-10 Round 3 10-22-92
Anion Milliequivalents	19.20	18.61	19.60
Cation Milliequivalents	19.42	20.20	20.58
Anion-Cation Bal	1.621	4.091	2.447
Calculated TDS mg	1222	1207	1256
TDS Balance A/C %	0.933	0.904	0.975

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

Sample Identification:	SM 3-1	SM 3-1	SM 3-1		
	Round 1	Round 2	Round 3		
Sample Date:	09-24-92	10-08-92	10-22-92		
Report Date:	10-30-92	11-02-92	11-13-92		
Laboratory I.D. #:	92-35548	92-40797	92-41787	Mean	Standard Deviation

MAJOR IONS mg/l:

Ca - Calcium	9.0	8.0	7.0	8.0	0.263
Mg - Magnesium	1.0	1.0	1.0	1.0	0.000
Na - Sodium	10.0	10.0	10.0	10.0	0.000
K - Potassium	0.0	0.0	0.0	0.0	0.000
CO ₃ - Carbonate	0.0	0.0	0.0	0.0	0.000
HCO ₃ - Bicarbonate	0.0	0.0	0.0	0.0	0.000
SO ₄ - Sulfate	0.7	0.7	0.7	0.7	0.000
Cl - Chloride	0.4	0.4	0.4	0.4	0.000
NH ₄ - Ammonium	0.21	0.21	0.21	0.21	0.000
NO ₂ - Nitrite	0.10	0.10	0.10	0.10	0.000
NO ₃ - Nitrate	0.40	0.40	0.40	0.40	0.000
F - Fluoride	0.66	0.66	0.66	0.66	0.000
SiO ₂ - Silica	0.6	0.6	0.6	0.6	0.000
TDS - Total Dissolved Solids	2.57	2.57	2.57	2.57	0.000
EC - Conductivity (umho/cm)	2.57	2.57	2.57	2.57	0.000
Alk - Alkalinity as CaCO ₃	9.23	9.23	9.23	9.23	0.000
pH (std units)	9.23	9.23	9.23	9.23	0.000

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	<0.100	0.000
As - Arsenic	0.024	0.020	0.005	0.016	0.010
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	0.20	0.20	0.22	0.207	0.012
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	0.01	0.01	0.01	0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	0.021	0.016	0.017	0.018	0.003
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	1.44	3.90	3.34	2.893	1.289

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.004	0.006	0.006	0.005	0.001
Ra226 - Radium 226	0.9	1.0	0.8	0.9	0.9
Radium 226 Precision +/-	0.20	0.2	0.6	0.333	0.231

Quality Assurance Data:

Anion Milliequivalents	8.96	8.32	7.94
Cation Milliequivalents	9.23	8.62	8.11
Anion-Cation Balance	1.534	1.747	0.226
Calculated TDS mg/l	8.34	8.34	8.34
TDS Balance A/C %	0.943	0.921	0.985

REPORT APPROVED BY:

tld



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. - BASELINE WATER ANALYSIS REPORT

PROJECT: CROW BUTTE PROJECT

Sample Identification:	SM3-2 Round 1 09-25-92 10-20-92 92-35564	SM3-2 Round 2 10-09-92 11-04-92 92-40805	SM 3-2 Round 3 10-22-92 11-12-92 92-41781	Mean	Standard Deviation
Sample Date:					
Report Date:					
Laboratory I.D. #:					

MAJOR IONS mg/l:

Ca - Calcium	5.0	4.6	4.5	4.700	0.265
Mg - Magnesium	1.0	0.8	0.8	0.867	0.100
Na - Sodium	1.30	1.2	1.2	1.233	0.050
K - Potassium	18.0	17.0	17.0	17.667	0.100
CO ₃ - Carbonate	4.0	4.0	4.0	4.000	0.000
HCO ₃ - Bicarbonate	1.72	1.5	1.5	1.573	0.126
SO ₄ - Sulfate	4.1	3.6	3.6	3.767	0.250
Cl - Chloride	2.8	2.1	2.1	2.333	0.409
NH ₄ - Ammonium	<0.05	<0.05	<0.05	<0.050	0.000
NO ₂ - Nitrite	<0.10	<0.10	<0.10	<0.100	0.000
NO ₃ - Nitrate	<0.10	<0.10	<0.10	<0.100	0.000
F - Fluoride	0.5	0.5	0.5	0.500	0.110
SiO ₂ - Silica	61.5	65.4	67.5	64.800	3.045
TDS - Total Dissolved Solids	452	544	540	545.333	49.263
EC - Conductivity (umho/cm)	504	544	559	535.667	16.650
Alk - Alkalinity as CaCO ₃	204	212	207	207.667	4.041
pH (std units)	9.66	9.53	9.26	9.483	0.204

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	≤0.100	0.000
As - Arsenic	<0.004	<0.002	<0.001	≤0.002	0.000
Ba - Barium	<0.10	<0.10	<0.10	≤0.100	0.000
B - Boron	<0.10	<0.10	<0.10	≤0.100	0.000
Cd - Cadmium	<0.01	<0.01	<0.01	≤0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	≤0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	≤0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	≤0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	≤0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	≤0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	≤0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	≤0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	≤0.050	0.000
Se - Selenium	<0.005	<0.003	<0.001	≤0.003	0.000
V - Vanadium	<0.10	<0.10	<0.10	≤0.100	0.000
Zn - Zinc	0.06	1.32	0.99	0.790	0.653

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.005	<0.0003	0.007	≤0.004	0.003
Ra226 - Radium 226	10.7	3.1	1.5	5.100	4.615
Radium 226 Precision +/-	1.6	0.3	0.40	0.767	0.723

Quality Assurance Data:

Anion Milliequivalents	6.01	5.92	5.78		
Cation Milliequivalents	6.47	6.24	6.24		
Anion-Cation Balance	3.675	3.443	3.835		
Calculated TDS mg/l	417	415	411		
TDS Balance A/C %	1.083	0.961	0.983		

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**ENERGY LABORATORIES, INC.**P.O. BOX 3258 • CASPER, WY 82602 • PHONE (307) 235-0515
254 NORTH CENTER, SUITE 100 • CASPER, WY 82601 • FAX (307) 234-1639FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - BASELINE WATER ANALYSIS REPORT

PROJECT: CROW BUTTE PROJECT

Sample Identification:

Sample Date:

Report Date:

Laboratory I.D. #:

SM 3-3
Round 1
04-08-02
10-08-02
11-04-02
92-40798SM 3-3
Round 2
10-08-02
11-04-02
11-04-02
92-40798SM 3-3
Round 3
10-08-02
11-04-02
11-04-02
92-41788

Mean

Standard
Deviation

MAJOR IONS mg/l:

Ca - Calcium	14.5	4.4	5.3	5.5	0.802
Mg - Magnesium	11.4	1.3	1.1	1.0	0.043
Na - Sodium	12.1	1.3	1.1	1.0	0.043
K - Potassium	12.1	1.3	1.1	1.0	0.043
CO ₃ - Carbonate	12.1	1.3	1.1	1.0	0.043
HCO ₃ - Bicarbonate	12.1	1.3	1.1	1.0	0.043
SO ₄ - Sulfate	12.1	1.3	1.1	1.0	0.043
Cl - Chloride	12.1	1.3	1.1	1.0	0.043
NH ₄ - Ammonium	12.1	1.3	1.1	1.0	0.043
NO ₂ - Nitrite	12.1	1.3	1.1	1.0	0.043
NO ₃ - Nitrate	12.1	1.3	1.1	1.0	0.043
F - Fluoride	12.1	1.3	1.1	1.0	0.043
SiO ₂ - Silica	12.1	1.3	1.1	1.0	0.043
TDS - Total Dissolved Solids	12.1	1.3	1.1	1.0	0.043
EC - Conductivity (umho/cm)	12.1	1.3	1.1	1.0	0.043
Alk - Alkalinity as CaCO ₃	12.1	1.3	1.1	1.0	0.043
pH (std units)	8.92	8.86	8.84	8.873	0.042

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	<0.100	0.000
As - Arsenic	<0.005	<0.001	<0.001	<0.002	0.000
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	<0.10	<0.10	<0.10	<0.100	0.000
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	<0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	<0.007	<0.001	<0.005	<0.004	0.003
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	0.13	0.11	0.18	0.140	0.036

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.004	0.028	0.010	0.014	0.012
Ra226 - Radium 226	0.5	1.0	1.0	0.8	0.280
Radium 226 Precision +/-	0.2	0.2	0.3	0.2	0.058

Quality Assurance Data:

Anion Milliequivalents	5.78	5.26	5.26		
Cation Milliequivalents	5.89	5.47	5.26		
Anion-Cation Balance	0.910	1.928	0.216		
Calculated TDS mg/l	396	370	373		
TDS Balance A/C %	1.049	1.006	1.002		

REPORT APPROVED BY:

tld

MINE UNIT 3

PROPOSED UPPER CONTROL LIMITS

PROPOSED UPPER CONTROL LIMITS
MONITOR WELLS
MINE UNIT 3

<u>Well No.</u>		<u>Sodium</u>	<u>Sulfate</u>	<u>Chloride</u>	<u>Conductivity</u>	<u>Alkalinity</u>
SM3-1	Multiple	227	114	71	935	312
	Single	272	137	85	1122	374
SM3-2	Multiple	156	50	34	671	254
	Single	187	60	40	805	305
SM3-3	Multiple	143	54	25	607	247
	Single	171	65	30	729	297
CM3-1	Multiple	540	510	270	2328	372
	Single	648	612	324	2794	446
CM3-2	Multiple	533	497	241	2310	367
	Single	639	596	289	2772	441
CM3-3	Multiple	512	503	239	2285	349
	Single	615	603	287	2742	419
CM3-4A	Multiple	520	502	234	2321	350
	Single	624	602	281	2785	420
CM3-5	Multiple	539	487	265	2345	361
	Single	647	585	318	2814	433
CM3-6	Multiple	522	479	250	2333	367
	Single	626	575	300	2799	441
CM3-7	Multiple	535	472	233	2312	371
	Single	642	566	279	2775	445
CM3-8	Multiple	564	490	290	2530	352
	Single	677	588	348	3036	422
CM3-9	Multiple	542	467	241	2302	352
	Single	651	560	289	2762	422
CM3-10	Multiple	529	478	232	2249	355
	Single	635	573	278	2699	426

MINE UNIT 3

BASELINE WATER QUALITY ANALYSES

RESTORATION WELLS

BASELINE RESTORATION WELLS
MINE UNIT 3

<u>Well Number</u>	<u>Formation</u>	<u>Dates Sampled</u>	<u>Number of Analyses</u>
P-217	Chadron	1992	3
P-246	Chadron	1992	3
I-288	Chadron	1992	3
I-304	Chadron	1992	3
I-315	Chadron	1992	3
I-326	Chadron	1992	3
CM1-1	Chadron	1990-1992	9
CM1-2	Chadron	1990-1992	9
CM1-10	Chadron	1990-1992	9
CM1-11	Chadron	1990-1992	9
BL-5	Chadron	1990-1991	3
BL-6	Chadron	1990-1991	3
BL-7	Chadron	1990-1991	3

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

Sample I.D.:	CM1-1	CM1-1	CM1-1	CM1-1	CM1-1
Sample Date:	10-16-90	10-31-90	11-15-90	04-18-91	08-22-91
Report Date:	11-30-90	11-23-90	11-30-90	05-27-91	09-17-91
Laboratory I.D. #:	90-25991	90-29545	90-29838	91-8623	91-29973

MAJOR IONS mg/l:

Ca	16.0	17.0	18.3	15.6	14.8
Mg	4.2	4.3	4.5	3.6	3.5
Na	410	430	414	420	398
K	13.0	13.0	9.7	10.5	10.7
CO3	3.4	5.5	4.8	4.8	0
HCO3	358	337	330	350	362
SO4	375	369	351	365	379
Cl	189	224	234	223	164
NH4	0.29	0.30	0.23	0.20	0.15
NO2	<0.01	0.01	<0.01	0.01	<0.01
NO3	0.02	<0.01	<0.01	0.03	<0.01
F	0.57	0.65	0.70	0.80	0.61
SiO2	16.7	17.5	15.9	13.8	12.6
TDS @ 180 C	1115	1252	1209	1201	1183
Cond (umho/cm)	1987	2107	2044	2055	2139
Alk - CaCO3	299	286	279	294	302
pH (std units)	8.31	8.55	8.50	8.39	8.23

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	<0.10	<0.10
As	<0.001	<0.001	<0.001	<0.001	<0.001
Ba	<0.10	<0.10	<0.10	<0.10	<0.10
B	0.87	0.89	0.92	1.01	0.33
Cd	<0.01	<0.01	<0.01	<0.01	<0.01
Cr	<0.05	<0.05	<0.05	<0.05	<0.05
Cu	<0.01	<0.01	<0.01	<0.01	<0.01
Fe	<0.05	<0.05	<0.05	<0.05	<0.05
Pb	<0.05	<0.05	<0.05	<0.05	<0.05
Mn	<0.01	<0.01	<0.01	<0.01	<0.01
Hg	<0.001	<0.001	<0.001	<0.001	<0.001
Mo	<0.10	<0.10	<0.10	<0.10	<0.10
Ni	<0.05	<0.05	<0.05	<0.05	<0.05
Se	<0.001	<0.001	<0.001	<0.001	<0.001
V	<0.10	<0.10	<0.10	<0.10	<0.10
Zn	0.02	0.01	0.01	<0.01	<0.01

RADIOMETRIC:

U (mg/l)	0.0034	0.0039	0.0070	0.0050	0.0049
Ra226 (pCi/l)	10.2	9.9	10.0	5.0	6.5
Ra Prec. ±	0.6	0.7	0.9	0.4	0.7

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

Sample I.D.:	CM1-1	CM1-1	CM1-1	CM1-1
Sample Date:	10-31-91	01-23-92	04-16-92	07-23-92
Report Date:	12-06-91	02-26-92	05-18-92	08-21-92
Laboratory I.D. #:	91-41354	92-0646	92-8333	92-23729

MAJOR IONS mg/l:

Ca	15.0	15.4	18.4	15.2
Mg	4.0	3.9	5.2	4.7
Na	390	395	399	409
K	11.5	10.6	11.9	13.2
CO3	4.1	0	0	0
HCO3	357	369	368	352
SO4	378	366	378	386
Cl	181	176	179	174
NH4	0.34	0.34	0.47	0.29
NO2	<0.01	<0.01	<0.01	<0.10
NO3	<0.01	<0.01	<0.10	<0.10
F	0.73	0.77	0.46	0.82
SiO2	9.1	9.5	10.6	14.6
TDS @ 180 C	1166	1173	1175	1196
Cond (umho/cm)	2024	2229	1879	1755
Alk - CaCO3	298	303	302	288
pH (std units)	8.31	8.14	7.78	7.84

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	<0.10
As	<0.001	<0.001	0.002	<0.001
Ba	<0.10	<0.10	<0.10	<0.10
B	0.95	0.90	0.91	1.08
Cd	<0.01	<0.01	<0.01	<0.01
Cr	<0.05	<0.05	<0.05	<0.05
Cu	0.01	<0.01	<0.01	<0.01
Fe	<0.05	<0.05	<0.05	<0.05
Pb	<0.05	<0.05	<0.01	<0.05
Mn	<0.01	<0.01	<0.01	<0.01
Hg	<0.001	<0.001	<0.001	<0.001
Mo	<0.10	<0.10	<0.10	<0.10
Ni	<0.05	<0.05	<0.05	<0.05
Se	<0.001	<0.001	<0.001	<0.001
V	<0.10	<0.10	<0.10	<0.10
Zn	<0.01	0.02	<0.01	<0.01

RADIOMETRIC:

U (mg/l)	0.0047	0.003	0.003	0.006
Ra226 (pCi/l)	6.9	8.7	6.2	7.5
Ra Prec. ±	0.5	0.7	0.1	0.7

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

Sample I.D.: CM1-1

Sample Date:

Report Date:

Laboratory I.D. #:

Minimum	Maximum	Mean	Standard Deviation
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MAJOR IONS mg/l:

Ca	14.80	18.39	16.19	± 1.38
Mg	3.50	5.22	4.21	± 0.54
Na	390.00	430.00	407.22	± 12.93
K	9.70	13.22	11.57	± 1.29
CO ₃	0.00	5.50	2.51	± 2.45
HCO ₃	330.00	369.00	353.67	± 13.20
SO ₄	351.00	386.00	371.89	± 10.37
Cl	164.00	234.00	193.78	± 25.94
NH ₄	0.15	0.47	0.29	± 0.09
NO ₂	<0.01	<0.10	≤0.02	± 0.03
NO ₃	<0.01	<0.10	≤0.03	± 0.04
F	0.46	0.82	0.68	± 0.12
SiO ₂	9.10	17.50	13.37	± 3.11
TDS @ 180 C	1115.00	1252.00	1185.56	± 36.99
Cond (umho/cm)	1755.00	2229.00	2024.33	± 140.65
Alk - CaCO ₃	279.00	303.00	294.56	± 8.46
pH (std units)	7.78	8.55	8.23	± 0.27

TRACE METALS mg/l:

Al	<0.10	<0.10	≤0.10	± 0.00
As	<0.00	<0.00	≤0.00	± 0.00
Ba	<0.10	<0.10	≤0.10	± 0.00
B	0.87	1.08	0.94	± 0.07
Cd	<0.01	<0.01	≤0.01	± 0.00
Cr	<0.05	<0.05	≤0.05	± 0.00
Cu	<0.01	<0.01	≤0.01	± 0.00
Fe	<0.05	<0.05	≤0.05	± 0.00
Pb	<0.01	<0.05	≤0.05	± 0.01
Mn	<0.01	<0.01	≤0.01	± 0.00
Hg	<0.00	<0.00	≤0.00	± 0.00
Mo	<0.10	<0.10	≤0.10	± 0.00
Ni	<0.05	<0.05	≤0.05	± 0.00
Se	<0.00	<0.00	≤0.00	± 0.00
V	<0.10	<0.10	≤0.10	± 0.00
Zn	<0.01	<0.02	≤0.01	± 0.00

RADIOMETRIC:

U (mg/l)	0.003	0.007	0.005	± 0.001
Ra ²²⁶ (pCi/l)	5.00	10.20	7.88	± 1.90
Ra Prec. ±	0.05	0.90	0.58	± 0.24

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

Sample I.D.:	CM1-2	CM1-2	CM1-2	CM1-2	CM1-2
Sample Date:	10-16-90	10-31-90	11-15-90	04-18-91	08-22-91
Report Date:	11-30-90	11-23-90	11-30-90	05-27-91	09-17-91
Laboratory I.D. #:	90-25990	90-29546	90-29839	91-8624	91-29972

MAJOR IONS mg/l:

Ca	15.0	15.0	17.2	16.4	16.3
Mg	4.2	4.3	4.4	4.2	3.9
Na	410	410	390	404	406
K	12.0	12.0	9.4	10.2	10.8
CO3	0	5.3	5.4	0	10.1
HCO3	362	351	352	371	357
SO4	345	346	338	359	380
Cl	193	189	179	192	173
NH4	0.29	0.32	0.24	0.26	0.25
NO2	<0.01	<0.01	<0.01	0.01	<0.01
NO3	0.08	<0.01	<0.01	0.01	<0.01
F	0.57	0.60	0.70	0.52	0.61
SiO2	16.7	18.0	14.8	13.9	12.9
TDS @ 180 C	1149	1170	1145	1142	1173
Cond (umho/cm)	1975	1996	1894	1943	2112
Alk - CaCO3	297	297	298	309	307
pH (std units)	8.29	8.51	8.52	8.22	8.70

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	<0.10	<0.10
As	<0.001	<0.001	<0.001	<0.001	<0.001
Ba	<0.10	<0.10	<0.10	<0.10	<0.10
B	0.87	0.90	0.96	1.00	0.93
Cd	<0.01	<0.01	<0.01	<0.01	<0.01
Cr	<0.05	<0.05	<0.05	<0.05	<0.05
Cu	<0.01	<0.01	<0.01	0.01	<0.01
Fe	<0.05	<0.05	<0.05	<0.05	<0.05
Pb	<0.05	<0.05	<0.05	<0.05	<0.05
Mn	0.01	0.01	0.02	0.01	0.01
Hg	<0.001	<0.001	<0.001	<0.001	<0.001
Mo	<0.10	<0.10	<0.10	<0.10	<0.10
Ni	<0.05	<0.05	<0.05	<0.05	<0.05
Se	<0.001	<0.001	<0.001	<0.001	<0.001
V	<0.10	<0.10	<0.10	<0.10	<0.10
Zn	<0.01	0.02	0.01	<0.01	<0.01

RADIOMETRIC:

U (mg/l)	0.0261	0.0196	0.0280	0.0110	0.0059
Ra226 (pCi/l)	8.5	17.9	4.7	3.3	4.2
Ra Prec. ±	0.7	1.8	0.6	0.3	0.6

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

Sample I.D.:	CM1-2	CM1-2	CM1-2	CM1-2
Sample Date:	10-31-91	01-23-92	04-16-92	07-23-92
Report Date:	12-06-91	02-26-92	05-18-92	08-21-92
Laboratory I.D. #:	91-41355	92-0647	92-8332	92-23728

MAJOR IONS mg/l:

Ca	15.6	14.2	18.8	16.4
Mg	4.1	3.9	5.1	4.9
Na	400	390	389	397
K	11.4	10.0	11.9	13.3
CO ₃	0.0	0	0	0
HCO ₃	371	356	366	358
SO ₄	356	356	377	362
Cl	195	176	165	175
NH ₄	0.30	0.34	0.45	0.32
NO ₂	<0.01	<0.01	<0.01	<0.10
NO ₃	<0.01	<0.01	<0.10	<0.10
F	0.71	0.77	0.43	0.88
SiO ₂	8.9	8.9	10.3	14.5
TDS @ 180 C	1124	1175	1093	1185
Cond (umho/cm)	2014	2199	1885	1823
Alk - CaCO ₃	304	309	300	294
pH (std units)	8.18	8.14	8.21	7.78

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	<0.10
As	<0.001	<0.001	0.002	<0.001
Ba	<0.10	<0.10	<0.10	<0.10
B	0.94	1.0	0.93	1.16
Cd	<0.01	<0.01	<0.01	<0.01
Cr	<0.05	<0.05	<0.05	<0.05
Cu	0.02	<0.01	<0.01	<0.01
Fe	<0.05	0.06	<0.05	<0.05
Pb	<0.05	<0.05	<0.01	<0.05
Mn	0.01	0.01	<0.01	<0.01
Hg	<0.001	<0.001	<0.001	<0.001
Mo	<0.10	<0.10	<0.10	<0.10
Ni	<0.05	<0.05	<0.05	<0.05
Se	<0.001	<0.001	<0.001	<0.001
V	<0.10	<0.10	<0.10	<0.10
Zn	<0.01	0.02	<0.01	<0.01

RADIOMETRIC:

U (mg/l)	0.0056	0.003	0.005	0.012
Ra ₂₂₆ (pCi/l)	3.7	5.0	4.3	11.8
Ra Prec. %	0.4	0.6	0.4	0.8

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

Sample I.D.: CM1-2

Sample Date:

Report Date:

Laboratory I.D. #:

Minimum	Maximum	Mean	Standard Deviation
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MAJOR IONS mg/l:

Ca	14.20	18.76	16.10	± 1.36
Mg	3.90	5.09	4.33	± 0.41
Na	389.00	410.00	399.56	± 8.52
K	9.40	13.26	11.21	± 1.22
CO3	0.00	10.10	2.31	± 3.73
HCO3	351.00	371.00	360.44	± 7.54
SO4	338.00	380.00	357.67	± 14.06
Cl	165.00	195.00	181.89	± 10.62
NH4	0.24	0.45	0.31	± 0.06
NO2	<0.01	<0.10	≤0.02	± 0.03
NO3	<0.01	<0.10	≤0.04	± 0.04
F	0.43	0.88	0.64	± 0.14
SiO2	8.90	18.00	13.21	± 3.27
TDS @ 180 C	1093.00	1185.00	1150.67	± 29.13
Cond (umho/cm)	1823.00	2199.00	1982.33	± 116.84
Alk - CaCO3	294.00	309.00	301.67	± 5.70
pH (std units)	7.78	8.70	8.28	± 0.27

TRACE METALS mg/l:

Al	<0.10	<0.10	≤0.10	± 0.00
As	<0.00	<0.00	≤0.00	± 0.00
Ba	<0.10	<0.10	≤0.10	± 0.00
B	0.87	1.16	0.97	± 0.08
Cd	<0.01	<0.01	≤0.01	± 0.00
Cr	<0.05	<0.05	≤0.05	± 0.00
Cu	<0.01	<0.02	≤0.01	± 0.00
Fe	<0.05	<0.06	≤0.05	± 0.00
Pb	<0.01	<0.05	≤0.05	± 0.01
Mn	<0.01	<0.02	≤0.01	± 0.00
Hg	<0.00	<0.00	≤0.00	± 0.00
Mo	<0.10	<0.10	≤0.10	± 0.00
Ni	<0.05	<0.05	≤0.05	± 0.00
Se	<0.00	<0.00	≤0.00	± 0.00
V	<0.10	<0.10	≤0.10	± 0.00
Zn	<0.01	<0.02	≤0.01	± 0.00

RADIOMETRIC:

U (mg/l)	0.003	0.028	0.013	± 0.009
Ra226 (pCi/l)	3.30	17.90	7.04	± 4.91
Ra Prec. ±	0.30	1.80	0.69	± 0.45

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

Sample I.D.:	CM1-10	CM1-10	CM1-10	CM1-10
Sample Date:	10-31-91	01-23-92	04-16-92	07-23-92
Report Date:	12-06-91	02-26-92	05-18-92	08-21-92
Laboratory I.D. #:	91-41351	92-0656	92-8335	92-23731

MAJOR IONS mg/l:

Ca	14.5	14.7	17.5	14.2
Mg	3.6	3.6	4.5	3.8
Na	408	407	414	408
K	12.2	11.3	11.3	12.6
CO3	4.7	4.6	0	0
HCO3	356	359	361	360
SO4	369.0	343	375	362
Cl	222.0	207	206	191
NH4	0.32	0.77	0.47	0.20
NO2	<0.01	<0.01	<0.01	<0.10
NO3	<0.01	<0.01	<0.10	<0.1
F	0.66	0.80	0.43	0.88
SiO2	9.3	12.7	11.7	7.1
TDS @ 180 C	1189	1229	1173	1168
Cond (umho/cm)	2069	2275	1922	1837
Alk - CaCO3	298	301	296	295
pH (std units)	8.37	8.36	7.60	7.93

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	<0.10
As	<0.001	<0.001	0.002	0.001
Ba	<0.10	<0.10	<0.10	<0.10
B	0.93	1.0	0.97	1.07
Cd	<0.01	<0.01	<0.01	<0.01
Cr	<0.05	<0.05	<0.05	<0.05
Cu	<0.01	<0.01	<0.01	<0.01
Fe	<0.05	<0.05	<0.05	<0.05
Pb	<0.05	<0.05	<0.01	<0.05
Mn	<0.01	<0.01	<0.01	<0.01
Hg	<0.001	<0.001	<0.001	<0.001
Mo	<0.10	<0.10	<0.10	<0.10
Ni	<0.05	<0.05	<0.05	<0.05
Se	<0.001	<0.001	<0.001	<0.001
V	<0.10	<0.10	<0.10	<0.10
Zn	<0.01	0.03	<0.01	<0.01

RADIOMETRIC:

U (mg/l)	0.0200	0.019	0.017	0.027
Ra226 (pCi/l)	26.0	49.0	36.0	48.4
Ra Prec. ±	1.0	1.6	2.2	1.0

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

Sample I.D.:	CM1-10	CM1-10	CM1-10	CM1-10	CM1-10
Sample Date:	10-16-90	10-31-90	11-16-90	04-18-91	08-22-91
Report Date:	11-30-90	11-23-90	11-30-90	05-27-91	09-17-91
Laboratory I.D. #:	90-25992	90-29548	90-29845	91-8632	91-29975

MAJOR IONS mg/l:

Ca	15.0	14.0	16.4	12.2	12.7
Mg	3.1	3.0	3.8	3.2	3.2
Na	420	480	420	420	397
K	13.0	13.0	12.8	11.6	11.8
CO3	6.6	8.4	6.3	6.8	4.3
HCO3	357	289	336	337	347
SO4	358	334	340	364	363
Cl	210	324	255	233	179
NH4	0.29	0.35	0.33	0.12	0.26
NO2	<0.01	<0.01	0.02	0.01	<0.01
NO3	0.11	<0.01	<0.01	0.03	<0.0
F	0.59	0.57	0.78	0.70	0.61
SiO2	17.3	19.3	15.7	13.4	13.6
TDS @ 180 C	1167	1329	1225	1223	1195
Cond (umho/cm)	2031	2342	2098	2102	2198
Alk - CaCO3	304	251	286	286	290
pH (std units)	8.60	8.80	8.61	8.55	8.34

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	<0.10	<0.10
As	<0.001	<0.001	<0.001	<0.001	<0.001
Ba	<0.10	<0.10	<0.10	<0.10	<0.10
B	0.90	0.92	1.00	0.98	0.96
Cd	<0.01	<0.01	<0.01	<0.01	<0.01
Cr	<0.05	<0.05	<0.05	<0.05	<0.05
Cu	<0.01	0.02	<0.01	<0.01	<0.01
Fe	<0.05	<0.05	<0.05	<0.05	<0.05
Pb	<0.05	<0.05	<0.05	<0.05	<0.05
Mn	<0.01	<0.01	<0.01	<0.01	<0.01
Hg	<0.001	<0.001	<0.001	<0.001	<0.001
Mo	<0.10	<0.10	<0.10	<0.10	<0.10
Ni	<0.05	<0.05	<0.05	<0.05	<0.05
Se	<0.001	<0.001	<0.001	<0.001	<0.001
V	<0.10	<0.10	<0.10	<0.10	<0.10
Zn	0.01	0.04	<0.01	0.01	<0.01

RADIOMETRIC:

U (mg/l)	0.0165	0.0197	0.0260	0.0180	0.0207
Ra226 (pCi/l)	28.1	24.6	14.9	29.7	31.5
Ra Prec. ±	1.2	2.1	1.1	1.0	1.7

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

Sample I.D.: CM1-10

Sample Date:

Report Date:

Laboratory I.D. #:

Minimum	Maximum	Mean	Standard Deviation
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MAJOR IONS mg/l:

Ca	12.20	17.50	14.58	± 1.65
Mg	3.00	4.50	3.54	± 0.48
Na	397.00	480.00	419.33	± 24.03
K	11.30	13.00	12.17	± 0.69
CO ₃	0.00	8.40	4.63	± 2.93
HCO ₃	289.00	351.00	344.67	± 22.98
SO ₄	334.00	375.00	356.44	± 14.10
Cl	179.00	324.00	225.22	± 43.24
NH ₄	0.12	0.77	0.35	± 0.19
NO ₂	<0.01	<0.10	≤0.02	± 0.03
NO ₃	<0.01	<0.11	≤0.04	± 0.05
F	0.43	0.88	0.67	± 0.14
SiO ₂	7.12	19.30	13.35	± 3.79
TDS @ 180 C	1167.00	1329.00	1210.89	± 50.69
Cond (umho/cm)	1837.00	2342.00	2097.11	± 160.20
Alk - CaCO ₃	251.00	304.00	289.67	± 15.79
pH (std units)	7.60	8.80	8.35	± 0.37

TRACE METALS mg/l:

Al	<0.10	<0.10	≤0.10	± 0.00
As	<0.00	<0.00	≤0.00	± 0.00
Ba	<0.10	<0.10	≤0.10	± 0.00
B	0.90	1.07	0.97	± 0.05
Cd	<0.01	<0.01	≤0.01	± 0.00
Cr	<0.05	<0.05	≤0.05	± 0.00
Cu	<0.01	<0.02	≤0.01	± 0.00
Fe	<0.05	<0.05	≤0.05	± 0.00
Pb	<0.01	<0.05	≤0.05	± 0.01
Mn	<0.01	<0.01	≤0.01	± 0.00
Hg	<0.00	<0.00	≤0.00	± 0.00
Mo	<0.10	<0.10	≤0.10	± 0.00
Ni	<0.05	<0.05	≤0.05	± 0.00
Se	<0.00	<0.00	≤0.00	± 0.00
V	<0.10	<0.10	≤0.10	± 0.00
Zn	<0.01	<0.04	≤0.02	± 0.01

RADIOMETRIC:

U (mg/l)	0.017	0.027	0.020	± 0.004
Ra ²²⁶ (pCi/l)	14.900	49.000	32.022	± 11.056
Ra Prec. ±	1.000	2.200	1.433	± 0.482

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

Sample I.D.:	CM1-11	CM1-11	CM1-11	CM1-11	CM1-11
Sample Date:	10-16-90	10-31-90	11-16-90	04-18-91	08-22-91
Report Date:	11-30-90	11-23-90	11-30-90	05-27-91	09-17-91
Laboratory I.D. #:	90-25994	90-29547	90-29844	91-8633	91-29974

MAJOR IONS mg/l:

Ca	15.0	16.0	20.4	14.3	14.0
Mg	3.6	4.1	4.6	3.7	3.6
Na	390	410	385	409	401
K	12.0	13.0	12.6	11.4	11.0
CO3	0	6.1	5.3	4.6	0
HCO3	338	322	345	351	357
SO4	380	379	360	363	379
Cl	186	189	186	206	172
NH4	0.24	0.28	0.33	0.34	0.22
NO2	<0.01	<0.01	<0.01	0.01	<0.01
NO3	0.02	<0.01	<0.01	0.01	<0.01
F	0.64	0.62	0.72	0.70	0.61
SiO2	18.0	18.4	14.7	13.4	12.5
TDS @ 180 C	1137	1198	1185	1188	1181
Cond (umho/cm)	1941	2015	1919	2078	2150
Alk - CaCO3	277	274	292	295	296
pH (std units)	8.11	8.49	8.52	8.37	8.08

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	<0.10	<0.10
As	0.001	<0.001	<0.001	<0.001	<0.001
Ba	<0.10	<0.10	<0.10	<0.10	<0.10
B	0.91	0.91	0.92	0.96	0.93
Cd	<0.01	<0.01	<0.01	<0.01	<0.01
Cr	<0.05	<0.05	<0.05	<0.05	<0.05
Cu	<0.01	<0.01	<0.01	<0.01	<0.01
Fe	<0.05	<0.05	<0.05	<0.05	<0.05
Pb	<0.05	<0.05	<0.05	<0.05	<0.05
Mn	<0.01	<0.01	<0.01	<0.01	0.01
Hg	<0.001	<0.001	<0.001	<0.001	<0.001
Mo	<0.10	<0.10	<0.10	<0.10	<0.10
Ni	<0.05	<0.05	<0.05	<0.05	<0.05
Se	<0.001	<0.001	<0.001	<0.001	<0.001
V	<0.10	<0.10	<0.10	<0.10	<0.10
Zn	0.01	<0.01	0.02	0.01	<0.01

RADIOMETRIC:

U (mg/l)	0.0343	0.0228	0.0510	0.0420	0.0612
Ra226 (pCi/l)	19.0	18.8	15.7	14.0	42.4
Ra Prec. ±	0.9	1.0	1.1	0.6	1.7

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

Sample I.D.:	CM1-11	CM1-11	CM1-11	CM1-11
Sample Date:	10-31-91	01-23-92	04-16-92	07-23-92
Report Date:	12-06-91	02-26-92	05-18-92	08-21-92
Laboratory I.D. #:	91-41353	92-0655	92-8334	92-23730

MAJOR IONS mg/l:

Ca	14.7	14.0	17.3	18.2
Mg	3.8	3.5	4.9	4.9
Na	406	402	420	408
K	11.4	10.1	12.4	14.4
CO3	0.0	4.3	0	0
HCO3	362	364	356	348
SO4	369	366	409	384
Cl	195	184	186	193
NH4	0.35	0.75	0.42	0.21
NO2	<0.01	<0.01	<0.01	<0.10
NO3	0.09	<0.01	<0.10	<0.10
F	0.76	0.80	0.46	0.85
SiO2	9.3	10.0	10.8	7.7
TDS @ 180 C	1158	1197	1173	1164
Cond (umho/cm)	2016	2225	1896	1857
Alk - CaCO3	296	304	291	285
pH (std units)	8.20	8.32	7.85	7.79

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	<0.10
As	<0.001	<0.001	0.002	0.001
Ba	<0.10	<0.10	<0.10	<0.10
B	0.96	1.0	0.92	1.23
Cd	<0.01	<0.01	<0.01	<0.01
Cr	<0.05	<0.05	<0.05	<0.05
Cu	<0.01	<0.01	<0.01	<0.01
Fe	<0.05	<0.05	<0.05	<0.05
Pb	<0.05	<0.05	<0.01	<0.05
Mn	0.01	<0.01	<0.01	<0.01
Hg	<0.001	<0.001	<0.001	<0.001
Mo	<0.10	<0.10	<0.10	<0.10
Ni	<0.05	<0.05	<0.05	<0.05
Se	<0.001	<0.001	<0.001	<0.001
V	<0.10	<0.10	<0.10	<0.10
Zn	<0.01	0.03	<0.01	<0.01

RADIOMETRIC:

U (mg/l)	0.0700	0.047	0.021	0.034
Ra226 (pCi/l)	40.0	51.4	22.4	18.4
Ra Prec. ±	1.3	3.2	0.9	1.0

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

Sample I.D.: CM1-11

Sample Date:

Report Date:

Laboratory I.D. #:

Minimum	Maximum	Mean	Standard Deviation
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MAJOR IONS mg/l:

Ca	14.00	20.40	15.99	± 2.22
Mg	3.50	4.94	4.08	± 0.57
Na	385.00	420.00	403.44	± 10.63
K	10.10	14.39	12.03	± 1.25
CO3	0.00	6.10	2.26	± 2.72
HCO3	322.00	364.00	349.22	± 13.12
SO4	350.00	409.00	376.56	± 14.82
Cl	172.00	206.00	188.56	± 9.22
NH4	0.21	0.75	0.35	± 0.17
NO2	<0.01	<0.10	≤0.02	± 0.03
NO3	<0.01	<0.10	≤0.04	± 0.04
F	0.46	0.85	0.68	± 0.12
SiO2	7.70	18.40	12.76	± 3.75
TDS @ 180 C	1137.00	1198.00	1175.67	± 19.91
Cond (umho/cm)	1857.00	2225.00	2010.78	± 122.45
Alk - CaCO3	274.00	304.00	290.00	± 9.67
pH (std units)	7.79	8.52	8.19	± 0.26

TRACE METALS mg/l:

Al	<0.10	<0.10	≤0.10	± 0.00
As	<0.00	<0.00	≤0.00	± 0.00
Ba	<0.10	<0.10	≤0.10	± 0.00
B	0.91	1.23	0.97	± 0.10
Cd	<0.01	<0.01	≤0.01	± 0.00
Cr	<0.05	<0.05	≤0.05	± 0.00
Cu	<0.01	<0.01	≤0.01	± 0.00
Fe	<0.05	<0.05	≤0.05	± 0.00
Pb	<0.01	<0.05	≤0.05	± 0.01
Mn	<0.01	<0.01	≤0.01	± 0.00
Hg	<0.00	<0.00	≤0.00	± 0.00
Mo	<0.10	<0.10	≤0.10	± 0.00
Ni	<0.05	<0.05	≤0.05	± 0.00
Se	<0.00	<0.00	≤0.00	± 0.00
V	<0.10	<0.10	≤0.10	± 0.00
Zn	<0.01	<0.03	≤0.01	± 0.01

RADIOMETRIC:

U (mg/l)	0.021	0.070	0.043	± 0.017
Ra226 (pCi/l)	14.00	51.40	26.90	± 13.80
Ra Prec. ±	0.60	3.20	1.30	± 0.77

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

Sample I.D.:	BL-5	BL-5	BL-5		
Sample Date:	12-05-90	12-26-90	01-14-91		
Report Date:	01-08-91	01-21-91	02-07-91	Mean	Standard
Laboratory I.D. #:	90-32635	91-0015	91-0528		Deviation

MAJOR IONS mg/l:

Ca	7.6	10.0	9.1	8.90	± 1.21
Mg	2.1	3.0	2.9	2.67	± 0.49
Na	376	408	405	396.33	± 17.67
K	10.4	11.0	10.2	10.53	± 0.42
CO ₃	5.0	3.9	0	2.97	± 2.63
HCO ₃	259	334	342	311.67	± 45.79
SO ₄	354	383	366	367.67	± 14.57
Cl	185	186	195	188.67	± 5.51
NH ₄	0.29	0.43	0.37	0.36	± 0.07
NO ₂	<0.01	0.36	<0.01	±0.13	± 0.20
NO ₃	0.14	<0.01	0.01	0.05	± 0.08
F	0.87	0.66	0.70	0.74	± 0.11
SiO ₂	14.8	12.6	13.7	13.70	± 1.10
TDS @ 180 C	1062	1209	1100	1123.67	± 76.30
Cond (umho/cm)	1828	1959	1927	1904.67	± 68.30
Dilute Cond (umho/cm)	2026	2109	2098	2077.67	± 45.08
Alk - CaCO ₃	221	280	280	260.33	± 34.06
pa (std units)	8.62	8.40	8.30	8.44	± 0.16

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	±0.10	± 0.00
As	<0.001	<0.001	<0.001	±0.00	± 0.00
Ba	<0.10	<0.10	<0.10	±0.10	± 0.00
B	1.07	1.03	0.93	1.01	± 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	0.02	<0.01	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	±0.00	± 0.00
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	±0.00	± 0.00
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)	0.0179	0.0208	0.0214	0.02	± 0.00
Ra ²²⁶ (pCi/l)	7.5	5.8	9.1	7.47	± 1.65
Ra Prec. ±	0.7	0.6	1.4	0.90	± 0.44

QUALITY ASSURANCE DATA:

Anion meq:	17.06	18.89	18.76
Cation meq:	17.21	18.82	18.61
A/C Balance:	0.991	1.004	1.008
Calc TDS mg/l:	1087	1187	1174
TDS A/C Bal:	0.977	1.018	0.937
Calc Dil. Cond.:	1988	2164	2142
Dil. Cond. Bal:	1.019	0.974	0.980

Q.A. MANAGER: 
Energy Laboratories, Inc.
Casper, WY 82601

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

Sample I.D.:	BL-6	BL-6	BL-6		
Sample Date:	12-06-90	12-27-90	01-14-91		
Report Date:	01-08-91	01-21-91	02-07-91	Mean	Standard
Laboratory I.D. #:	90-32636	91-0017	91-0529		Deviation

MAJOR IONS mg/l:

Ca	12.3	13.0	12.6	12.63	± 0.35
Mg	2.2	2.0	2.7	2.30	± 0.36
Na	409	433	419	420.33	± 12.06
K	12.3	12.0	10.7	11.67	± 0.85
CO ₃	4.7	3.8	0	2.83	± 2.49
HCO ₃	336	351	356	347.67	± 10.41
SO ₄	345	373	368	362.00	± 14.93
Cl	195	196	216	202.33	± 11.85
NH ₄	0.28	0.41	0.37	0.35	± 0.07
NO ₂	<0.01	<0.01	<0.01	± 0.01	± 0.00
NO ₃	0.09	0.12	0.04	0.08	± 0.04
F	0.81	0.70	0.73	0.75	± 0.06
SiO ₂	16.8	13.2	15.6	15.20	± 1.83
TDS @ 180 C	1122	1113	1109	1114.67	± 6.66
Cond (umho/cm)	1952	1986	1890	1942.67	± 48.68
Dilute Cond (umho/cm)	2170	2166	2080	2138.67	± 50.85
Alk - CaCO ₃	283	294	292	289.67	± 5.86
pH (std units)	8.48	8.37	8.30	8.38	± 0.09

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	± 0.10	± 0.00
As	0.001	<0.001	<0.001	± 0.00	± 0.00
Ba	<0.10	<0.10	<0.10	± 0.10	± 0.00
B	1.22	1.02	0.88	1.04	± 0.17
Cd	<0.01	<0.01	<0.01	± 0.01	± 0.00
Cr	<0.05	<0.05	<0.05	± 0.05	± 0.00
Cu	0.02	<0.01	<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	± 0.00	± 0.00
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	± 0.00	± 0.00
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)	0.0425	0.0208	0.0375	0.03	± 0.01
Ra226 (pCi/l)	106	114	143	121.07	± 19.58
Ra Prec. ±	4.3	4.7	5.3	4.77	± 0.50

QUALITY ASSURANCE DATA:

Anion meq:	18.40	19.22	19.63
Cation meq:	18.93	20.00	19.39
A/C Balance:	0.972	0.961	1.012
Calc TDS mg/l:	1167	1223	1224
TDS A/C Bal:	0.961	0.910	0.906
Calc Dil. Cond.:	2136	2241	2239
Dil. Cond. Bal:	1.016	0.966	0.929

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

Sample I.D.:	BL-7	BL-7	BL-7		
Sample Date:	12-06-90	12-27-90	01-14-91		
Report Date:	01-08-91	01-21-91	02-07-91	Mean	Standard
Laboratory I.D. #:	90-32637	91-0016	91-0530		Deviation

MAJOR IONS mg/l:

Ca	14.7	17.0	15.9	15.87	± 1.15
Mg	4.4	5.0	4.9	4.77	± 0.32
Na	424	416	413	417.67	± 5.69
K	12.6	14.0	12.9	13.17	± 0.74
CO ₃	0	0	0	0.00	± 0.00
HCO ₃	351	359	364	358.00	± 6.56
SO ₄	355	384	396	378.33	± 21.08
Cl	207	210	199	205.33	± 5.69
NH ₄	0.32	0.43	0.44	0.40	± 0.07
NO ₂	<0.01	0.01	<0.01	±0.01	± 0.00
NO ₃	0.01	0.13	0.04	0.06	± 0.06
F	0.78	0.70	0.76	0.75	± 0.04
SiO ₂	12.5	11.0	11.7	11.73	± 0.75
TDS @ 180 C	1146	1197	1123	1155.33	± 37.87
Cond (umho/cm)	1982	2035	1937	1984.67	± 49.05
Dilute Cond (umho/cm)	2239	2203	2267	2236.33	± 32.08
Alk - CaCO ₃	288	294	298	293.33	± 5.03
pH (std units)	7.90	7.99	8.15	8.01	± 0.13

TRACE METALS mg/l:

Al	<0.10	<0.10	<0.10	±0.10	± 0.00
As	<0.001	<0.001	<0.001	±0.00	± 0.00
Ba	<0.10	<0.10	<0.10	±0.10	± 0.00
B	1.09	1.02	0.92	1.01	± 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	±0.00	± 0.00
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	±0.00	± 0.00
V	<0.10	<0.10	<0.10	±0.10	± 0.00
Zn	0.02	0.01	0.02	0.02	± 0.01

RADIOMETRIC:

U (mg/l)	0.0378	0.0241	0.0330	0.03	± 0.01
Ra ²²⁶ (pCi/l)	75.0	62.1	60.6	65.90	± 7.92
Ra Prec. ±	3.8	3.3	3.3	3.47	± 0.29

QUALITY ASSURANCE DATA:

Anion meq:	19.02	19.85	19.87
Cation meq:	19.90	19.76	19.54
A/C Balance:	0.956	1.004	1.017
Calc TDS mg/l:	1207	1239	1237
TDS A/C Bal:	0.949	0.966	0.908
Calc Dil. Cond.:	2222	2273	2259
Dil. Cond. Bal:	1.008	0.969	1.003

Q.A. MANAGER: 
Energy Laboratories, Inc.
Casper, WY 82601



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

PROJECT: CROW BUTTE PROJECT

Sample Identification:	P 217 Round 1	P 217 Round 2	P 217 Round 3	Mean	Standard Deviation
Sample Date:	09-28-92	10-08-92	10-22-92		
Report Date:	10-30-92	11-04-92	11-12-92		
Laboratory I.D. #:	92-55560	92-40789	92-41782		

MAJOR IONS mg/l:

Ca - Calcium	12.0	11.7	13.5	12.400	0.954
Mg - Magnesium	0.0	0.2	0.6	0.267	0.306
Na - Sodium	1.0	1.3	1.4	1.233	0.155
K - Potassium	0.0	0.1	0.1	0.067	0.035
CO ₃ - Carbonate	0.0	0.0	0.0	0.000	0.000
HCO ₃ - Bicarbonate	0.0	0.0	0.0	0.000	0.000
SO ₄ - Sulfate	0.0	0.0	0.0	0.000	0.000
Cl - Chloride	0.0	0.0	0.0	0.000	0.000
NH ₄ - Ammonium	0.0	0.0	0.0	0.000	0.000
NO ₂ - Nitrite	<0.10	<0.10	<0.10	<0.100	0.000
NO ₃ - Nitrate	<0.10	<0.10	<0.10	<0.100	0.000
F - Fluoride	<0.10	<0.10	<0.10	<0.100	0.000
SiO ₂ - Silica	0.0	0.0	0.0	0.000	0.000
TDS - Total Dissolved Solids	11.7	11.6	12.5	11.600	0.403
EC - Conductivity (umho/cm)	771	771	821	787.333	20.063
Alk - Alkalinity as CaCO ₃	8.08	8.12	8.02	8.07333	0.033
pH (std units)	8.40	8.24	8.41	8.350	0.095

TRACE METALS mg/l:

Al - Aluminum	<0.01	<0.10	<0.10	<0.070	0.052
As - Arsenic	<0.001	<0.001	<0.001	<0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	1.00	0.10	0.93	0.677	0.501
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	<0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	0.01	0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	0.002	<0.001	<0.001	<0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	<0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.382	0.452	0.442	0.425	0.038
Ra226 - Radium 226	296.0	296.0	14.0	501.000	11.338
Brdium 226 Precision +/-	6.2	5.7	7.8	6.567	1.097

Quality Assurance Data:

Anion Milliequivalents	18.44	19.42	19.01		
Cation Milliequivalents	19.50	20.27	20.02		
Anion-Cation Balance	3.037	2.105	2.209		
Calculated TDS mg/l	1187	1241	1271		
TDS Balance A/C %	0.907	0.921	0.986		

REPORT APPROVED BY:
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FERRET EXPLORATION COMPANY OF NEBRASKA, INC. - BASELINE WATER ANALYSIS REPORT

PROJECT: CROW BUTTE PROJECT

Sample Identification:

	P-246 Round 1	P-246 Round 2	P-246 Round 3	Mean	Standard Deviation
Sample Date:	09-25-92	10-08-92	10-22-92		
Report Date:	10-30-92	11-04-92	11-13-92		
Laboratory I.D. #:	92-35566	92-40762	92-41784		

MAJOR IONS mg/l:

	P-246 Round 1	P-246 Round 2	P-246 Round 3	Mean	Standard Deviation
Ca - Calcium	6.0	7.4	5.3	6.2	0.737
Mg - Magnesium	1.0	1.2	1.0	1.1	0.103
Na - Sodium	2.0	2.1	2.0	2.0	0.041
K - Potassium	27.0	20.9	20.0	22.6	3.716
CO3 - Carbonate	2.0	2.0	2.0	2.0	0.000
HCO3 - Bicarbonate	2.0	2.0	2.0	2.0	0.000
SO4 - Sulfate	2.0	2.0	2.0	2.0	0.000
Cl - Chloride	2.0	2.0	2.0	2.0	0.000
NH4 - Ammonium	0.40	0.26	0.05	0.24	0.176
NO2 - Nitrite	<0.10	<0.10	<0.10	<0.10	0.000
NO3 - Nitrate	<0.10	<0.10	<0.10	<0.10	0.000
F - Fluoride	0.0	0.5	0.0	0.2	0.212
SiO2 - Silica	1.0	1.6	1.0	1.2	0.321
TDS - Total Dissolved Solids	11.6	11.6	11.6	11.6	0.000
EC - Conductivity (umho/cm)	200	200	200	200	0.000
Alk - Alkalinity as CaCO3	3.1	3.2	3.1	3.1	0.051
pH (std units)	9.41	9.02	9.29	9.24	0.200

TRACE METALS mg/l:

	P-246 Round 1	P-246 Round 2	P-246 Round 3	Mean	Standard Deviation
Al - Aluminum	<0.10	<0.10	<0.10	<0.10	0.000
As - Arsenic	<0.001	<0.001	<0.001	<0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	<0.10	0.000
B - Boron	1.00	0.90	0.98	0.96	0.053
Cd - Cadmium	<0.01	<0.01	<0.01	<0.01	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.05	0.000
Cu - Copper	<0.01	<0.01	<0.01	<0.01	0.000
Fe - Iron	<0.05	<0.05	<0.05	<0.05	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.05	0.000
Mn - Manganese	<0.01	<0.01	<0.01	<0.01	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.10	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.05	0.000
Se - Selenium	0.001	0.001	0.001	0.001	0.000
V - Vanadium	<0.10	<0.10	<0.10	<0.10	0.000
Zn - Zinc	<0.01	<0.01	<0.01	<0.01	0.000

RADIOMETRIC pCi/l:

	P-246 Round 1	P-246 Round 2	P-246 Round 3	Mean	Standard Deviation
U-nat - Uranium Natural (mg/l)	0.123	0.050	0.032	0.068	0.048
Ra226 - Radium 226	18.7	18.8	9.8	15.767	5.168
Radium 226 Precision +/-	0.8	0.8	0.7	0.767	0.058

Quality Assurance Data:

	P-246 Round 1	P-246 Round 2	P-246 Round 3
Anion Milliequivalents	21.83	20.38	21.96
Cation Milliequivalents	23.25	21.56	22.70
Anion-Cation Balance	-1.42	-1.18	-0.74
Calculated TDS mg/l	138.6	130.5	133.3
TDS Balance A/C %	0.962	0.909	0.977

REPORT APPROVED BY:

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

PROJECT: CROW BUTTE PROJECT

Sample Identification:

Sample Date:

Report Date:

Laboratory I.D. #:

I 288 Round 1	I 288 Round 2	I 288 Round 3
08-25-92	10-08-92	10-22-92
10-30-92	11-04-92	11-12-92
92-35562	92-40788	92-41705

Mean Standard Deviation

MAJOR IONS mg/l:

	I 288 Round 1	I 288 Round 2	I 288 Round 3	Mean	Standard Deviation
Ca - Calcium	16.0	14.6	15.0	15.200	0.721
Mg - Magnesium	4.4	4.4	4.4	4.400	0.306
Na - Sodium	14.0	14.8	14.8	14.533	0.462
K - Potassium	0.0	0.0	0.0	0.000	0.000
CO3 - Carbonate	0.0	0.0	0.0	0.000	0.000
HCO3 - Bicarbonate	0.0	0.0	0.0	0.000	0.000
SO4 - Sulfate	0.0	0.0	0.0	0.000	0.000
Cl - Chloride	0.0	0.0	0.0	0.000	0.000
NH4 - Ammonium	0.31	0.39	0.25	0.317	0.070
NO2 - Nitrite	<0.10	<0.10	<0.10	<0.100	0.000
NO3 - Nitrate	<0.10	<0.10	<0.10	<0.100	0.000
F - Fluoride	0.75	0.75	0.75	0.750	0.000
SiO2 - Silica	12.0	12.0	12.0	12.000	0.000
TDS - Total Dissolved Solids	1213	1175	1177	1188	21.385
EC - Conductivity (umho/cm)	125.8	122.5	122.0	123.4	4.041
Alk - Alkalinity as CaCO3	305	312	312	309	0.241
pH (std units)	8.24	8.03	8.51	8.26	0.241

TRACE METALS mg/l:

	I 288 Round 1	I 288 Round 2	I 288 Round 3	Mean	Standard Deviation
Al - Aluminum	<0.10	<0.10	<0.10	<0.100	0.000
As - Arsenic	<0.001	<0.001	<0.001	<0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	1.10	1.00	0.89	0.997	0.105
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	<0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	0.002	0.002	0.001	0.002	0.001
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	<0.01	0.05	<0.01	0.033	0.040

RADIOMETRIC pCi/l:

	I 288 Round 1	I 288 Round 2	I 288 Round 3	Mean	Standard Deviation
U-nat - Uranium Natural (mg/l)	0.288	0.372	0.374	0.345	0.049
Ra226 - Radium 226	601.0	595	595	596.667	65.577
Radium 226 Precision +/-	8.9	7.3	9.3	8.500	1.058

Quality Assurance Data:

	I 288 Round 1	I 288 Round 2	I 288 Round 3
Anion Milliequivalents	19.57	18.89	20.43
Cation Milliequivalents	19.57	20.17	19.10
Anion-Cation Balance	-0.244	3.259	-3.348
Calculated TDS mg/l	1230	1214	1235
TDS Balance A/C %	0.986	0.968	0.938

REPORT APPROVED BY:

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**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. - BASELINE WATER ANALYSIS REPORT**

PROJECT: CROW BUTTE PROJECT

Sample Identification:	1 304 Round 1 09-25-92 10-30-92 92-35557	1 304 Round 2 10-08-92 11-04-92 92-40791	1 304 Round 3 10-23-92 11-12-92 92-41792	Mean	Standard Deviation
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MAJOR IONS mg/l:

Ca - Calcium	11.0	10.1	10.4	10.500	0.458
Mg - Magnesium	2.0	2.2	2.2	2.133	0.100
Na - Sodium	7.1	6.5	6.8	6.800	0.300
K - Potassium	7.0	7.2	7.3	7.167	0.150
CO ₃ - Carbonate	0.6	0.7	0.7	0.667	0.050
HCO ₃ - Bicarbonate	0.6	0.7	0.7	0.667	0.050
SO ₄ - Sulfate	0.6	0.7	0.7	0.667	0.050
Cl - Chloride	0.6	0.7	0.7	0.667	0.050
NE ₄ - Ammonium	0.0	0.0	0.0	0.000	0.000
NO ₂ - Nitrite	0.0	0.0	0.0	0.000	0.000
NO ₃ - Nitrate	0.0	0.0	0.0	0.000	0.000
F - Fluoride	0.0	0.0	0.0	0.000	0.000
SiO ₂ - Silica	1.2	1.2	1.2	1.200	0.000
TDS - Total Dissolved Solids	11.6	11.6	11.6	11.600	0.000
EC - Conductivity (umho/cm)	1817	1817	1817	1817.0	0.000
Alk - Alkalinity as CaCO ₃	0.05	0.10	0.04	0.063	0.025
pH (std units)	8.44	8.35	8.72	8.503	0.193

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	≤0.100	0.000
As - Arsenic	<0.001	<0.001	<0.001	≤0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	≤0.100	0.000
B - Boron	1.00	0.90	1.07	0.990	0.085
Cd - Cadmium	<0.01	<0.01	<0.01	≤0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	≤0.050	0.000
Cu - Copper	<0.01	<0.01	<0.01	≤0.010	0.000
Fe - Iron	<0.05	<0.05	<0.05	≤0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	≤0.050	0.000
Mn - Manganese	<0.01	0.01	<0.01	≤0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	≤0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	≤0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	≤0.050	0.000
Se - Selenium	<0.002	<0.001	<0.001	≤0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	≤0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	≤0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.346	0.357	0.491	0.398	0.081
Ra226 - Radium 226	712.0	720	628	686.667	50.954
Radium 226 Precision +/-	9.7	8.9	10.4	9.667	0.751

Quality Assurance Data:

Anion Milliequivalents	20.21	19.25	19.99		
Cation Milliequivalents	21.75	20.80	21.64		
Anion-Cation Balance	3.571	3.220	3.964		
Calculated TDS mg/l	1294	1243	1286		
TDS Balance A/C %	0.903	0.936	0.944		

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

PROJECT: CROW BUTTE PROJECT

Sample Identification:

	I-313 Round 1	I-315 Round 2	I-315 Round 3		
Sample Date:	09-27-92	10-08-92	10-22-92		
Report Date:	10-30-92	11-04-92	11-12-92		
Laboratory I.D. #:	92-35563	92-40790	92-41783	Mean	Standard Deviation

MAJOR IONS mg/l:

Ca - Calcium	16.0	14.8	16.4	15.4	0.833
Mg - Magnesium	4.0	4.3	5.1	4.4	0.569
Na - Sodium	4.4	4.3	4.9	4.5	0.017
K - Potassium	1.7	1.2	1.9	1.6	0.670
CO ₃ - Carbonate	0.0	0.0	0.0	0.0	0.016
HCO ₃ - Bicarbonate	3.0	3.6	3.4	3.0	0.539
SO ₄ - Sulfate	1.0	1.0	1.0	1.0	0.088
Cl - Chloride	1.8	1.6	1.6	1.7	1.528
NH ₄ - Ammonium	0.13	0.33	0.60	0.42	0.156
NO ₂ - Nitrite	<0.10	<0.10	<0.10	<0.10	0.000
NO ₃ - Nitrate	<0.10	<0.10	<0.10	<0.10	0.000
F - Fluoride	0.71	0.32	0.95	0.68	0.281
SiO ₂ - Silica	12.8	13.3	12.7	12.9	0.321
TDS - Total Dissolved Solids	116	111	126	117	6.616
EC - Conductivity (umho/cm)	177	155	193	174	79.777
Alk - Alkalinity as CaCO ₃	302	302	292	299	5.774
pH (std units)	8.42	8.17	8.34	8.31	0.128

TRACE METALS mg/l:

Al - Aluminum	<0.10	0.10	<0.10	<0.100	0.000
As - Arsenic	<0.001	<0.001	<0.001	<0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	1.00	1.00	0.96	0.98	0.023
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	<0.01	0.01	0.02	<0.013	0.006
Fe - Iron	<0.05	<0.05	<0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	<0.01	<0.01	<0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	0.002	<0.001	<0.001	<0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	<0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.064	0.034	0.037	0.045	0.017
Ra226 - Radium 226	123.0	132	132	129.000	5.196
Radium 226 Precision +/-	4.0	5.4	5.0	4.800	0.721

Quality Assurance Data:

Anion Milliequivalents	19.79	19.10	19.79
Cation Milliequivalents	20.96	20.30	21.21
Anion-Cation Balance	2.851	5.046	3.133
Calculated TDS mg/l	1272	1226	1278
TDS Balance A/C %	0.917	0.955	0.991

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

PROJECT: CROW BUTTE PROJECT

Sample Identification:	I-326 Round 1	I-326 Round 2	I-326 Round 3		
Sample Date:	09-25-92	10-08-92	10-22-92		
Report Date:	10-30-92	11-04-92	11-12-92		
Laboratory I.D. #:	92-35565	92-40793	92-41786	Mean	Standard Deviation

MAJOR IONS mg/l:

Ca - Calcium	11.0	12.2	14.0	12.400	1.510
Mg - Magnesium	3.0	3.4	3.0	3.133	0.413
Na - Sodium	45.5	44.5	44.4	44.800	0.650
K - Potassium	1.0	1.5	1.2	1.233	0.350
CO ₃ - Carbonate	0.0	0.0	0.0	0.000	0.000
HCO ₃ - Bicarbonate	3.5	3.3	3.6	3.467	0.150
SO ₄ - Sulfate	3.8	3.5	3.9	3.733	0.150
Cl - Chloride	2.2	1.8	1.6	1.867	0.343
NH ₄ - Ammonium	0.39	0.23	0.31	0.310	0.080
NO ₂ - Nitrite	<0.10	<0.10	<0.10	<0.100	0.000
NO ₃ - Nitrate	<0.10	<0.10	<0.10	<0.100	0.000
F - Fluoride	0.23	0.60	0.03	0.287	0.221
SiO ₂ - Silica	1.1	1.7	1.3	1.367	0.355
TDS - Total Dissolved Solids	13.4	11.7	12.3	12.300	1.015
EC - Conductivity (umho/cm)	17.0	18.7	19.3	18.500	1.015
Alk - Alkalinity as CaCO ₃	2.4	2.6	3.0	2.667	0.650
pH (std units)	8.31	8.22	8.37	8.300	0.075

TRACE METALS mg/l:

Al - Aluminum	<0.10	<0.10	<0.10	<0.100	0.000
As - Arsenic	<0.001	<0.001	<0.001	<0.001	0.000
Ba - Barium	<0.10	<0.10	<0.10	<0.100	0.000
B - Boron	1.00	0.90	1.13	1.010	0.115
Cd - Cadmium	<0.01	<0.01	<0.01	<0.010	0.000
Cr - Chromium	<0.05	<0.05	<0.05	<0.050	0.000
Cu - Copper	0.01	0.01	0.01	0.010	0.030
Fe - Iron	<0.05	<0.05	<0.05	<0.050	0.000
Pb - Lead	<0.05	<0.05	<0.05	<0.050	0.000
Mn - Manganese	<0.01	0.01	0.01	0.010	0.000
Hg - Mercury	<0.001	<0.001	<0.001	<0.001	0.000
Mo - Molybdenum	<0.10	<0.10	<0.10	<0.100	0.000
Ni - Nickel	<0.05	<0.05	<0.05	<0.050	0.000
Se - Selenium	0.002	<0.00	<0.001	<0.001	0.001
V - Vanadium	<0.10	<0.10	<0.10	<0.100	0.000
Zn - Zinc	<0.01	<0.01	<0.01	<0.010	0.000

RADIOMETRIC pCi/l:

U-nat - Uranium Natural (mg/l)	0.051	0.041	0.054	0.049	0.007
Ra-226 - Radium 226	191.0	197	176	188.000	10.817
Radium 226 Precision +/-	7.2	4.6	5.4	5.733	1.332

Quality Assurance Data:

Anion Milliequivalents	20.41	19.20	19.73
Cation Milliequivalents	20.98	20.60	20.65
Anion-Cation Balance	1.361	3.623	2.283
Calculated TDS mg/l	1289	1237	1260
TDS Balance A/C %	1.020	0.903	0.999

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MINE UNIT 3

PROPOSED RESTORATION STANDARDS

PROPOSED RESTORATION TABLE
MINE UNIT 3

All parameters are in mg/l unless noted.

<u>Parameter</u>	<u>Groundwater Standard</u>	<u>Wellfield Average</u>	<u>Standard Deviation</u>	<u>Restoration Value</u>
Ammonia	10			10
Arsenic	0.05			0.05
Barium	1.00			1.00
Cadmium	0.01			0.01
Chloride	250			250
Copper	1.00			1.0
Fluoride	4.00			4.0
Iron	0.30			0.30
Mercury	0.002			0.002
Manganese	0.05			0.05
Molybdenum	1.00			1.00
Nickel	0.15			0.15
Nitrate	10.0			10.0
Lead	0.05			0.05
Radium (pCi/l)	5.0	165	223	611
Selenium	0.01			0.01
Sulfate	250	377	13.4	404
Uranium	5.00			5.00
Vanadium	0.20			0.20
Zinc	5.00			5.00
pH (std. units)	6.5-8.5			6.5-8.5
Calcium	--	13.3		133
Total Carbonate	--	377		592
Potassium	--	13.9		139
Magnesium	--	3.5		35
TDS	--	1183		1183

MINE UNIT 3

EASTING

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595 594 593 592 591 590 589 588 587 586 585 584 583 582 581 580 579 578 577 576 575 574 573 572 571 570 569 568 567 566 565 564 563 562 561 560 559 558 557 556 555 554 553 552 551 550 549 548 547 546 545 544 543 542 541 540 539 538 537 536 535 534 533 532 531 530 529 528 527 526 525 524 523 522 521 520 519 518 517 516 515 514 513 512 511 510 509 508 507 506 505 504 503 502 501 500 499 498 497 496 495 494 493 492 491 490 489 488 487 486 485 484 483 482 481 480 479 478 477 476 475 474 473 472 471 470 469 468 467 466 465 464 463 462 461 460 459 458 457 456 455 454 453 452 451 450 449 448 447 446 445 444 443 442 441 440 439 438 437 436 435 434 433 432 431 430 429 428 427 426 425 424 423 422 421 420 419 418 417 416 415 414 413 412 411 410 409 408 407 406 405 404 403 402 401 400 399 398 397 396 395 394 393 392 391 390 389 388 387 386 385 384 383 382 381 380 379 378 377 376 375 374 373 372 371 370 369 368 367 366 365 364 363 362 361 360 359 358 357 356 355 354 353 352 351 350 349 348 347 346 345 344 343 342 341 340 339 338 337 336 335 334 333 332 331 330 329 328 327 326 325 324 323 322 321 320 319 318 317 316 315 314 313 312 311 310 309 308 307 306 305 304 303 302 301 300 299 298 297 296 295 294 293 292 291 290 289 288 287 286 285 284 283 282 281 280 279 278 277 276 275 274 273 272 271 270 269 268 267 266 265 264 263 262 261 260 259 258 257 256 255 254 253 252 251 250 249 248 247 246 245 244 243 242 241 240 239 238 237 236 235 234 233 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 200 199 198 197 196 195 194 193 192 191 190 189 188 187 186 185 184 183 182 181 180 179 178 177 176 175 174 173 172 171 170 169 168 167 166 165 164 163 162 161 160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 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