CROW BUTTE RESOURCES, INC.

CROW BUTTE URANIUM PROJECT

RADIOLOGICAL EFFLUENT AND ENVIRONMENTAL MONITORING REPORT

for

FIRST AND SECOND QUARTERS, 2000

USNRC Source Materials License SUA 1534

Table of Contents

1 WATER QUALITY MONITORING DATA 1

1.1 Excursion Monitoring 1

1.2 Water Supply Wells and Surface Water 2

2 OPERATIONAL 2

2.1 Production Data Summary 2

2.2 Wastewater Summary 2

2.3 Effluent Release 3

2.4 Inspections 4

2.4.1 Pond Inspections 4

2.4.2 Radiation Safety Inspections 7

2.5 Restoration 7

3 ENVIRONMENTAL MONITORING 7

3.1 Air Monitor Stations 7

3.2 TLD Monitors 7

3.3 Stream Sediments 7

1 WATER QUALITY MONITORING DATA

1.1 Excursion Monitoring

Biweekly excursion monitoring in the shallow aquifer and perimeter monitor wells was continued in Mine Units 1 through 7 during the first and second quarters of 2000. Copies of the Nebraska Department of Environmental Quality (NDEQ) Mining Monitoring Reports (MMR's) are included in Appendix A. These reports provide the minimum, maximum and mean monitoring data for each monitor well during both calendar quarters. Complete monitoring results are readily available on site for inspection.

On March 6, 2000 during routine biweekly water sampling of Crow Butte Resources, Inc. (CBR) shallow monitor well SM6-18, the single parameter upper control limit (UCL) was exceeded for chloride. As required by SUA-1534, a second sample was collected within 48 hours and analyzed for the five excursion indicator parameters. The results of the second sample also exceeded the single UCL for chloride. Based upon these results, monitor well SM6-18 was placed on excursion status.

On May 25, 2000 during routine biweekly water sampling of shallow monitor well SM6-13, the single parameter upper control limit (UCL) was exceeded for sulfate. A second sample was collected within 48 hours and analyzed for the five excursion indicator parameters. The results of the second sample also exceeded the single UCL for sulfate. Based upon these results, monitor well SM6-13 was placed on excursion status.

Also on May 25, 2000 during routine biweekly water sampling of shallow monitor well SM6-28, the single parameter upper control limits (UCLs) were exceeded for chloride and sulfate. A second sample was collected within 48 hours and analyzed for the five excursion indicator parameters. The results of the second sample also exceeded the single UCLs for chloride and sulfate. Based upon these results, monitor well SM6-28 was placed on excursion status. SM6-28 was removed from excursion status on June 27, 2000 after three consecutive weekly samples were below the UCLs for chloride and sulfate.

CBR believes that the exceedance of the UCLs in SM6-18, SM6-28, and SM6-13 are due to natural fluctuations in the background concentrations and are not due to impacts from mining solutions. The very low baseline concentrations for these wells result in equally low UCLs. Small variations in the natural concentrations can result in the exceedance of these UCLs.

On April 27, 2000 during routine biweekly water sampling of shallow monitor well SM7-23, the single parameter upper control limit (UCL) was exceeded for sulfate. A second sample was collected within 48 hours and analyzed for the five excursion indicator parameters. The results of the second sample also exceeded the single UCL for sulfate. Based upon these results, monitor well SM7-23 was placed on excursion status. CBR believes that the exceedance of the sulfate single UCL in SM7-23 is due to drilling activities in the immediate vicinity of the well and is not due to migration of

mining solutions. SM7-23 is located in a new area of Mine Unit 7 where mining activities have not begun. The nearest active mining well is approximately 800 feet from SM7-23. In addition, several other shallow monitor wells are located between SM7-23 and these active mining wells. If the excursion were due to mining solutions, these wells would also be affected.

1.2 Water Supply Wells and Surface Water

Summary sheets of quarterly radiological analytical data for the reporting period from all surface waters and water supply wells within one kilometer of the active wellfield boundary are included in Appendix B. The reported radiological data are within the expected ranges for each well or stream. Well No. 28 is a windmill providing water for livestock. During the first half of 2000, the windmill was frozen and then broken, so no sample was obtained from the well.

2 OPERATIONAL

2.1 Production Data Summary

Mining operations continued through the first and second quarters of 2000. The average operating production flow rate was 4393 gpm for the first quarter and 4318 gpm for the second quarter. The annual average production flow for the first half of 2000 was 4355 gpm. Injection and production totals from the totalizers and the calculated bleed totals for the reporting period are included in Appendix C.

The main injection trunkline is equipped with a continuous pressure sensor. The pressure sensor is set to alarm below the 100-psi injection pressure limit contained in the NDEQ UIC Permit. The average and maximum injection pressures for each wellhouse are included in Appendix D in the Wellfield Injection Pressure table.

The chemical analysis summaries for both the injection and production streams are included in Appendix E. The daily chemical analyses were used to calculate a monthly average during the reporting period. The average monthly chemical analysis was calculated for calcium, sodium, chloride, sulfate, and total carbonate.

2.2 Wastewater Summary

The total volume of wastewater discharged to the ponds was 750,050 gallons during the first quarter and 1,904,820 gallons during the second quarter. An additional 298,315 gallons of water generated from well workovers, well development, and well maintenance activities were

discharged to the ponds during the first half of 2000. Currently, all five evaporation ponds contain wastewater.

Wastewater that is not disposed of in the evaporation ponds is injected into the Deep Disposal Well (DDW). Currently, the well is operated on a continuous basis and 12,074,061 gallons of wastewater was injected into the well during the first half of 2000. Operational and monitoring data for the DDW is reported to the NDEQ in the Monthly Monitoring Report (MMR). Copies of the MMRs for the first and second quarters of 2000 are included in Appendix F.

2.3 Effluent Release

License Condition No. 12.1 of SUA-1534 requires that CBR report the results of effluent releases to the environment. In the Application for Renewal of Source Materials License SUA-1534, submitted December 1995, Table 7.3(A) presented calculations of the annual radon emissions for the Crow Butte Plant. These calculations assumed a 7.04×10^{-4} Curies/m^3 radon release from leaching operations and are the basis for the radon release calculations for the first half of 2000.

During the first quarter production occurred at an average flow rate of 4393 gpm (16,629 lpm). During the second quarter production occurred at an average flow rate of 4318 gpm (16,345 lpm). Production was maintained continuously for 91 days for the first quarter with the exception of 9 hours of downtime. This represents a first quarter operating factor of 99.59%. Production was maintained continuously for 91 days for the second quarter with the exception of 25.8 hours of downtime. This represents a second quarter operating factor of 98.82%. The production flow for the first quarter would result in a calculated radon release of 1,100 Curies. The production flow for the second quarter would result in a calculated radon release of 1,073 Curies. Calculations for radon release from production operations are shown in Appendix G.

Additional wells were brought on line during the first half of 2000. Calculations for the start-up of 9.01 acres of a new wellfield are shown in Appendix G. The calculated radon released from start-up of 9.01 acres is 11 Curies.

The total radon emission due to leaching operations from the Crow Butte plant for the first half of 2000 was 2,184 Curies. This calculated annual release rate is comparable with the releases estimated in CBR's License Renewal Application.

Radon is also released from restoration activities. For restoration water that is treated by ion exchange only, the radon concentration is 0.697 μCi/l. Of the total restoration production flow it is assumed that 25% of the radon is released through wellfield loss and 10% of the remaining radon is released during pressurized ion exchange treatment. For water that is treated by reverse osmosis, it is assumed that 100% of the remaining radon is released. For water treated by reverse osmosis the radon concentration is 0.470 μCi/l after adjusting for wellfield loss and ion exchange loss.

During the first half of 2000, a total of 108,762,259 gallons (411,708,655 l) of restoration water was produced from Mine Units 2 and 3. Based upon an estimated radon concentration of 0.697 μCi/l, the total amount of radon in the restoration solution was calculated to be 287 Curies as shown in Appendix G. The estimated release of radon through wellfield loss at 25% of this total was 72 Curies. The plant loss for ion exchange treatment of the restoration water is estimated at 10% of the remaining radon, or 22 Curies.

Of the total amount of restoration water produced in the first half of 2000, 23,437,123 gallons (88,718,885 l) of the water was treated by reverse osmosis. The release of radon from reverse osmosis treatment is estimated to be 100% of the remaining radon, after correction for wellfield and ion exchange losses. These corrections result in an estimated radon concentration of 0.470 μCi/l. The total estimated radon release from reverse osmosis treatment was 42 Curies. An additional 2.59 acres of wellfields were placed in restoration during the first half of 2000. Calculations for the start-up of 2.59 acres of a wellfield placed in restoration are shown in Appendix G. The calculated radon released from start-up of 2.59 acres is 3 Curies.

Based upon the calculations shown in Appendix G, the total estimated semiannual radon emission for the first half of 2000 from restoration activities was 139 Curies. This resulted in a total estimated radon release from the Crow Butte project during the first half of 2000 of 2,323 Curies.

2.4 Inspections

2.4.1 Pond Inspections

Plant operators conduct a daily visual inspection of the evaporation pond areas. Both R&D ponds and commercial ponds Nos. 1, 3, and 4 are inspected. The condition of the fences, pond embankments, and liners are all noted on the inspection form. The depth of water is recorded for all of the cells. Pond freeboard requirements were not exceeded during the first half of 2000.

The Quarterly Evaporation Pond Inspections were conducted for the first and second quarters. Copies of these reports are included in Appendix H.

The leak detection standpipes on each cell are checked on a weekly basis. If six inches or more of fluid is present in the leak detection standpipes of the R&D ponds, License Condition No. 11.4 requires that it be sampled and analyzed for conductivity, chloride, alkalinity, sodium and sulfate. The standpipes at the R & D ponds have never exceeded six inches.

License Condition No. 11.4 also requires that if six inches or more of water is present in the leak detection standpipes of the commercial ponds that the water be sampled on a weekly basis and analyzed for specific conductance. In the event that the specific conductance shows an increase

above the action level, the water in the standpipe would be analyzed for chloride, alkalinity, sodium, and sulfate in an attempt to verify a leak.

The daily pond inspection forms are on file at the plant.

2.4.1.1 Primary Liner Leak in Pond 4

On May 19, 2000 during routine evaporation pond monitoring of Evaporation Pond 4, conductivity readings from the northwest underdrain indicated a potential pond liner leak. As required by License Condition 11.4 of SUA-1534, a sample was collected and analyzed for chloride, alkalinity, sodium, and sulfate. The results of this sample indicated that the concentration of the indicator analytes in the underdrain were similar to the pond contents. A second sample confirmed these results. Based upon these results, it was determined that a primary liner leak potentially existed in the northwest corner of Pond 4.

Following discovery of the leak, CBR began weekly sampling of the northwest underdrain with analysis for alkalinity, chloride, sodium, conductivity, and sulfate. In addition to the required weekly analysis for the underdrain, CBR obtained a non-routine sample from pond monitor well CPM-1. CPM-1 is completed in the first aquifer and is located down gradient of Pond 4 at the fenced restricted area boundary. The sample was obtained and analyzed for the indicator analytes to ensure that there was no indication of leakage in the secondary liner.

Upon confirmation of the liner leak, CBR lowered the level of Pond 4 by pumping water to Pond 3. Concurrently, an immediate visual inspection of the liner in the northwest quadrant of the pond was performed. During the inspection, a patch was located that had a poor weld at one corner. The inspection did not locate any other areas of potential leakage. On June 7, 2000, Serrot International performed repairs on the Pond 4 liner. The poorly welded patch in the northwest corner at approximately the 8-foot level was cut out. The patch was replaced with a 60-mil high-density polyethylene (HDPE) patch. The patch was welded in place and vacuum tested for integrity. An older patch located approximately 2 feet east of the repair and another patch located high on the west side of the northwest corner were also vacuum tested for integrity. The testing indicated good welds on the patches.

Following completion of repairs, water was transferred to increase the Pond 4 water level. CBR began flushing the northwest underdrain with clean water to reduce the underdrain conductivity. This was performed to allow monitoring of the underdrain to determine whether repairs had been successful. A sample of the underdrain on June 14 was analyzed for alkalinity, chloride, conductivity, sulfate, and sodium. The results of this sampling indicated concentrations that were well above those noted during the weekly monitoring. At the same time, the conductivity in the northeast underdrain increased significantly.

CBR is unsure whether these elevated concentrations are due to a pocket of higher conductivity water in the underdrain system that is being flushed out or a primary liner leak that was not located during inspections and repairs. In response to these results, CBR lowered the level in Pond 4 and performed a visual inspection of the northwest and northeast quadrants of the pond. Areas of questionable liner integrity have been located and will be inspected by Serrot International in the near future.

A 30-Day Report of the Pond 4 Primary Liner Leak was submitted to NRC on June 16, 2000.

2.4.1.2 Primary Liner Leak in Pond 1

On June 9, 2000 during routine evaporation pond monitoring of Evaporation Pond 1, conductivity readings from the southwest underdrain indicated a potential pond liner leak. As required by License Condition 11.4 of SUA-1534, a sample was collected and analyzed for chloride, alkalinity, conductivity, sodium, and sulfate. The results of this sample indicated that the concentrations of the indicator parameters in the underdrain were elevated, approaching concentrations that are similar to the pond contents. A second sample confirmed these results. Based upon these results, it was determined that a primary liner leak potentially existed in the southwest corner of Pond 1. Upon confirmation of the primary liner leak, CBR began weekly sampling of the southwest underdrain and analysis for alkalinity, chloride, sodium, conductivity, and sulfate. In addition to weekly analysis for the underdrain, CBR obtained a non-routine sample from pond monitor wells CPM-1 and CPM-2. CPM-1 and CPM-2 are completed in the first aquifer and are located downgradient of Pond 1 at the fenced restricted area boundary. The sample was obtained on June 19 and analyzed for the indicator parameters to ensure that there was no indication of leakage in the secondary liner.

Upon confirmation of the primary liner leak on June 9, CBR began to lower the level of Pond 1 by pumping water to Pond 4. Concurrently, an immediate visual inspection of the liner in the southwest quadrant of the pond was performed. The inspection did not locate any visual indication of potential sources of leakage. Several areas where the liner had indications of abrasion were vacuum tested, but did not indicate liner failure. The contents of Pond 1 were transferred to Pond 4 until the water level was reduced from 10 feet 0 inches to 8 feet 6 inches. A complete visual inspection was repeated, paying particular attention to the waterline. No apparent sources of leaks were identified. CBR is continuing to attempt to identify the source of the leak. Serrot International will inspect the liner in the near future.

A 30-Day Report of the Pond 1 Primary Liner Leak was submitted to NRC on July 7, 2000.

2.4.2 Radiation Safety Inspections

Daily walk-through inspections of all work and storage areas are conducted and the inspection reports are maintained on file at the plant. As required in License Condition 11.5, a weekly inspection by the RSO and the Plant Manager or their designees is conducted to observe general radiation control practices and to review required changes in procedures and equipment. Weekly inspection reports are also on file at the plant.

2.5 Restoration

Restoration activities continued in Mine Unit #2 and Mine Unit #3 during the first half of 2000. Mine Unit 1 is shut-in following completion of the stabilization period and subsequent approval of restoration by the NDEQ. The Mine Unit #1 Restoration Report was submitted to NRC with a related amendment request on January 14, 2000.

Monthly Restoration Reports, detailing restoration activities and associated water sampling results for the period, are included in Appendix I.

3 ENVIRONMENTAL MONITORING

3.1 Air Monitor Stations

Seven air monitoring stations are used to monitor the Crow Butte Plant. Ambient radon-222 concentrations and radionuclide concentrations in air for each monitoring site are listed in Appendix J. All of the data for both quarters are within the expected ranges.

3.2 TLD Monitors

Environmental TLD monitors are located at each air monitoring station. The results of the area TLD monitors fall within the expected ranges and are listed in Appendix J.

3.3 Stream Sediments

Sediment samples are collected from two locations on Squaw Creek and two locations on English Creek on an annual basis. The sample locations are immediately upstream and downstream of the point where the creeks cross the site boundary. Sediment samples for 2000 will be collected during the second half of the year and reported in the next Semiannual Radiological Effluent and Environmental Monitoring Report.

Appendix A

Mining Monitor Reports

First and Second Quarter, 2000

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

Month: January - March Year: 2000

Total volume or water level for reporting period: 554,192,254 gallons injected *
* from individual well injection meters – excluding restoration injection

Quality of Injected Fluid (discuss any significant change in the constituents or concentrations of the injected fluid):

	Chloride (ppm)	Sulfate (ppm)	Sodium (ppm)	Alkalinity** (as ppm $CaCO_3$)	pH (SU)
Minimum	561	986	1284	1395	7.5
Maximum	610	1098	1392	1763	8.1

** Alkalinity = Total Carbonate/1.2

Volume of injected fluid:

Month	Average Daily Injection Commercial (gpm)	Average Daily Injection Restoration (gpm)
January	4253	352
February	4231	377
March	4256	371

1. Have any operational problems occurred over the reporting period? Yes
2. Has any well maintenance (repairs, workovers, etc.) been performed during the period? yes
3. Has any significant change occurred in any of the monitored parameters that might indicate a leak or other failure of any well? no

If the answer to any of the above is yes, describe below.

Question 1:

Mine Unit 1 monitor well PR-15 was placed on excursion status on January 13. The excursion was due to setting UCLs too low by using post-restoration values for the excursion parameters. CBR proposed resetting the UCLs using pre-mining baseline values. By letter dated March 23,

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

Month: January - March Year: 2000

Total volume or water level for reporting period: 554,192,254 gallons injected *
* from individual well injection meters – excluding restoration injection

Quality of Injected Fluid (discuss any significant change in the constituents or concentrations of the injected fluid):

	Chloride (ppm)	Sulfate (ppm)	Sodium (ppm)	Alkalinity** (as ppm $CaCO_3$)	pH (SU)
Minimum	561	986	1284	1395	7.5
Maximum	610	1098	1392	1763	8.1

** Alkalinity = Total Carbonate/1.2

Volume of injected fluid:

Month	Average Daily Injection Commercial (gpm)	Average Daily Injection Restoration (gpm)
January	4253	352
February	4231	377
March	4256	371

1. Have any operational problems occurred over the reporting period? Yes
2. Has any well maintenance (repairs, workovers, etc.) been performed during the period? yes
3. Has any significant change occurred in any of the monitored parameters that might indicate a leak or other failure of any well? no

If the answer to any of the above is yes, describe below.

Question 1:

Mine Unit 1 monitor well PR-15 was placed on excursion status on January 13. The excursion was due to setting UCLs too low by using post-restoration values for the excursion parameters. CBR proposed resetting the UCLs using pre-mining baseline values. By letter dated March 23,

NDEQ approved use of the baseline values for UCLs. As a result, PR-15 was removed from excursion status on March 29.

Mine Unit 6 shallow monitor well SM6-18 was placed on excursion status on March 6. The excursion was due to exceeding the single UCL for chloride (i.e., 19 mg/l). CBR believes that the excursion is due to natural fluctuation of the chloride level in the shallow aquifer and not due to mining solutions. All other parameters for SM6-18 remain at normal levels. CBR is continuing to sample SM6-18 on a weekly basis.

Question 2:

Rig Workovers: CM7-2
Mining wells with casing repaired: P456-11 (MIT Pending); I1854

I CERTIFY UNDER THE PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS APPLICATION AND ALL THE ATTACHMENTS AND THAT, I BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. FURTHER, I CERTIFY AWARENESS THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF A FINE AND IMPRISONMENT.

Signature/Date

Charles R. Miller, Plant Manager
Name/Title (printed)

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

1st qtr. 2000 - page 1

Submitted by:
Crow Butte Resources,Inc.
P.O. Box 169
Crawford, NE 69339

Submitted To:
NDEQ - P/C
P.O. Box 98922
Lincoln, NE 68509

Permit No. NE0122611

Report Date:05-08-2000

Well Number	SM7-1			SM7-2			SM7-3		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	51.6	51.7	52.2	53.3	53.3	53.5	52.5	52.6	52.6
Barometric Pressure, in.	29.0	29.8	30.5	29.0	29.8	30.5	29.0	29.8	30.5
Sodium, ppm	106.0	107.7	109.0	88.0	89.5	91.0	93.0	94.2	96.0
Sulfate, ppm	44.0	45.5	46.0	31.0	31.8	33.0	37.0	38.0	40.0
Chloride, ppm	6.2	6.4	6.7	4.7	5.4	5.9	4.7	5.3	5.6
Conductivity, umhos	510	510	510	420	422	430	450	450	450
Total Alkalinity, ppm	180.0	185.0	190.0	155.0	166.7	170.0	168.0	172.7	180.0

Well Number	SM7-4			SM7-5			SM7-6		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	74.5	74.5	74.6	58.4	58.4	58.5	78.7	78.8	79.0
Barometric Pressure, in.	29.0	29.8	30.5	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	88.0	89.0	90.0	87.0	89.2	91.0	54.0	56.2	58.0
Sulfate, ppm	29.0	31.3	33.0	36.0	36.8	39.0	18.0	18.3	19.0
Chloride, ppm	5.4	6.5	7.4	3.3	3.8	4.3	3.3	3.9	4.4
Conductivity, umhos	420	425	430	430	438	440	360	367	370
Total Alkalinity, ppm	165.0	168.3	170.0	165.0	169.2	170.0	145.0	152.5	155.0

Well Number	SM7-7			SM7-8			SM7-9		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	71.8	71.9	72.0	47.4	47.5	47.5	46.4	46.5	46.5
Barometric Pressure, in.	29.7	29.9	30.2	29.5	29.8	30.1	29.5	29.8	30.1
Sodium, ppm	92.0	93.0	95.0	97.0	100.3	102.0	88.0	90.0	92.0
Sulfate, ppm	38.0	39.0	40.0	56.0	57.8	62.0	33.0	33.8	35.0
Chloride, ppm	4.0	4.3	4.7	4.7	5.0	5.2	4.6	4.7	4.8
Conductivity, umhos	440	442	450	490	495	510	430	437	440
Total Alkalinity, ppm	160.0	169.2	175.0	168.0	173.5	180.0	165.0	170.5	178.0

Well Number	SM7-10			SM7-11			SM7-12		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	55.4	55.5	55.7	78.4	78.7	79.0	50.1	50.8	51.0
Barometric Pressure, in.	29.5	29.8	30.1	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	88.0	90.7	92.0	54.0	55.5	57.0	85.0	86.2	87.0
Sulfate, ppm	37.0	38.3	40.0	18.0	19.5	21.0	42.0	42.8	44.0
Chloride, ppm	2.9	3.3	3.6	1.8	2.2	2.4	2.5	3.1	3.6
Conductivity, umhos	430	438	440	340	340	340	440	442	450
Total Alkalinity, ppm	158.0	168.0	175.0	135.0	146.7	150.0	150.0	160.8	170.0

Well Number	SM7-13			SM7-14			SM7-15		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	54.1	54.5	54.7	83.6	83.8	83.9	102.1	102.4	102.6
Barometric Pressure, in.	29.7	29.9	30.2	29.6	29.9	30.1	29.6	29.9	30.1
Sodium, ppm	72.0	73.8	75.0	55.0	56.4	59.0	49.0	49.7	51.0
Sulfate, ppm	25.0	25.7	27.0	15.0	16.9	18.0	19.0	20.0	21.0
Chloride, ppm	2.5	2.8	3.0	3.6	3.9	4.5	1.8	2.1	2.2
Conductivity, umhos	380	380	380	330	330	330	340	340	340
Total Alkalinity, ppm	150.0	155.0	160.0	135.0	141.4	145.0	135.0	138.6	145.0

Well Number	SM7-16			SM7-17			SM7-18		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	130.7	131.0	131.1	102.8	103.2	103.7	123.8	124.6	125.6
Barometric Pressure, in.	29.6	29.9	30.1	29.6	29.8	30.2	29.6	29.8	30.2
Sodium, ppm	47.0	48.1	50.0	59.0	61.6	64.0	60.0	61.3	62.0
Sulfate, ppm	17.0	18.4	20.0	17.0	17.1	18.0	21.0	23.4	26.0
Chloride, ppm	1.1	1.5	1.9	2.5	3.2	3.7	1.8	2.0	2.2
Conductivity, umhos	330	330	330	360	373	380	340	353	360
Total Alkalinity, ppm	140.0	140.0	140.0	155.0	160.0	170.0	140.0	146.4	150.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

1st qtr. 2000 - page 2

Well Number	SM7-19			SM7-20			SM7-21		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	100.1	100.6	100.9	110.8	111.3	111.6	121.9	122.6	123.0
Barometric Pressure, in.	29.6	29.8	30.2	29.8	30.0	30.2	29.8	30.0	30.2
Sodium, ppm	67.0	69.6	72.0	69.0	69.9	71.0	65.0	67.0	68.0
Sulfate, ppm	22.0	23.4	25.0	20.0	20.7	22.0	21.0	22.1	23.0
Chloride, ppm	2.2	3.0	3.3	2.2	2.5	3.0	2.2	2.8	3.3
Conductivity, umhos	350	356	360	350	351	360	350	353	360
Total Alkalinity, ppm	140.0	145.0	150.0	138.0	144.7	150.0	140.0	146.4	150.0

Well Number	SM7-22			SM7-23			SM7-24		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	91.4	91.8	92.2	100.2	104.6	105.6	108.1	108.2	108.3
Barometric Pressure, in.	29.8	30.0	30.2	29.9	30.0	30.1	29.9	30.0	30.1
Sodium, ppm	68.0	68.1	69.0	100.0	103.4	105.0	113.0	114.6	116.0
Sulfate, ppm	20.0	21.0	22.0	45.0	48.3	55.0	67.0	68.7	71.0
Chloride, ppm	7.2	8.2	9.7	14.0	15.0	16.0	10.0	11.0	12.0
Conductivity, umhos	350	361	370	500	511	530	550	561	570
Total Alkalinity, ppm	140.0	146.4	155.0	170.0	176.3	180.0	170.0	183.3	195.0

Well Number	SM7-25			SM6-1			SM6-2		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	101.2	101.6	101.7	51.0	51.3	52.1	42.4	42.7	43.3
Barometric Pressure, in.	29.9	30.0	30.1	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	72.0	74.6	77.0	121.0	122.5	125.0	122.0	124.5	127.0
Sulfate, ppm	19.0	20.3	21.0	51.0	52.2	53.0	50.0	50.5	51.0
Chloride, ppm	4.0	4.6	5.6	8.9	9.2	9.4	13.0	13.5	14.0
Conductivity, umhos	370	370	370	560	560	560	570	570	570
Total Alkalinity, ppm	150.0	158.6	165.0	200.0	208.3	215.0	200.0	205.8	215.0

Well Number	SM6-3			SM6-4			SM6-5		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	34.1	34.5	34.9	47.2	47.5	47.8	41.1	41.5	41.9
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	120.0	121.0	123.0	115.0	116.5	119.0	113.0	114.5	117.0
Sulfate, ppm	50.0	51.5	53.0	44.0	44.5	45.0	38.0	39.7	41.0
Chloride, ppm	13.0	13.7	14.0	7.6	8.3	8.7	7.2	7.9	8.3
Conductivity, umhos	560	560	560	530	538	540	520	528	530
Total Alkalinity, ppm	200.0	203.0	210.0	210.0	212.5	220.0	205.0	209.7	213.0

Well Number	SM6-6			SM6-7			SM6-8		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	52.2	52.5	52.8	36.0	36.4	36.7	26.0	26.5	27.0
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	107.0	108.3	109.0	114.0	115.2	118.0	64.0	65.3	67.0
Sulfate, ppm	17.0	18.3	20.0	13.0	14.8	16.0	24.0	26.0	28.0
Chloride, ppm	3.3	3.5	3.6	6.2	6.7	7.1	6.5	7.1	7.6
Conductivity, umhos	480	487	490	510	510	510	490	490	490
Total Alkalinity, ppm	220.0	227.2	233.0	230.0	235.8	245.0	200.0	209.2	220.0

Well Number	SM6-9			SM6-10			SM6-11		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	17.5	17.9	18.2	13.4	13.8	14.1	9.3	9.7	10.0
Barometric Pressure, in.	29.8	30.0	30.2	29.7	29.9	30.2	29.6	29.9	30.1
Sodium, ppm	70.0	71.1	73.0	118.0	119.7	123.0	18.0	18.9	20.0
Sulfate, ppm	13.0	13.7	14.0	46.0	47.0	48.0	14.0	14.6	15.0
Chloride, ppm	5.2	5.5	5.8	7.8	8.3	8.7	5.4	5.8	5.9
Conductivity, umhos	500	509	510	550	550	550	480	480	480
Total Alkalinity, ppm	225.0	233.6	240.0	205.0	213.5	220.0	200.0	208.6	220.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT
1st qtr. 2000 - page 3

Well Number	SM6-12			SM6-13			SM6-14		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	12.9	13.4	13.7	10.6	11.1	11.5	25.9	26.3	26.8
Barometric Pressure, in.	29.7	29.9	30.2	29.9	30.0	30.1	29.6	29.8	30.2
Sodium, ppm	23.0	24.0	26.0	22.0	23.3	24.0	120.0	122.4	125.0
Sulfate, ppm	12.0	12.7	14.0	14.0	16.3	20.0	53.0	53.6	54.0
Chloride, ppm	4.0	4.2	4.5	4.7	5.2	5.8	13.0	13.1	14.0
Conductivity, umhos	510	510	510	530	537	550	560	569	570
Total Alkalinity, ppm	223.0	230.3	235.0	240.0	248.3	260.0	200.0	204.3	210.0

Well Number	SM6-15			SM6-16			SM6-17		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	30.9	31.1	31.2	37.7	38.1	38.3	17.3	17.7	18.1
Barometric Pressure, in.	29.5	29.8	30.1	29.5	29.8	30.1	29.7	29.9	30.2
Sodium, ppm	115.0	119.7	122.0	51.0	53.5	55.0	37.0	37.8	39.0
Sulfate, ppm	49.0	49.8	51.0	7.8	8.8	10.0	5.0	6.5	7.5
Chloride, ppm	13.0	13.8	14.0	4.3	4.4	4.7	4.5	5.0	5.2
Conductivity, umhos	550	558	560	450	452	460	480	487	490
Total Alkalinity, ppm	200.0	202.5	205.0	200.0	209.3	213.0	230.0	233.0	240.0

Well Number	SM6-18			SM6-19			SM6-20		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	21.5	21.9	22.7	34.9	35.2	35.5	18.5	18.7	19.3
Barometric Pressure, in.	29.0	29.8	30.5	29.0	29.8	30.5	29.7	29.9	30.2
Sodium, ppm	119.0	122.0	124.0	53.0	53.8	55.0	19.0	19.7	21.0
Sulfate, ppm	50.0	52.1	54.0	22.0	23.7	26.0	15.0	15.3	17.0
Chloride, ppm	18.0	19.4	21.0	5.6	6.1	6.5	5.9	6.3	6.9
Conductivity, umhos	570	576	580	480	487	490	490	490	490
Total Alkalinity, ppm	200.0	201.7	205.0	200.0	203.8	210.0	205.0	210.2	218.0

Well Number	SM6-21			SM6-22			SM6-23		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	2.4	2.7	2.9	0.1	0.3	0.5	1.4	1.8	2.0
Barometric Pressure, in.	29.9	30.0	30.1	29.9	30.0	30.1	29.9	30.0	30.1
Sodium, ppm	19.0	21.3	23.0	18.0	20.1	22.0	25.0	26.1	27.0
Sulfate, ppm	14.0	14.7	15.0	13.0	13.7	14.0	14.0	14.9	16.0
Chloride, ppm	6.2	6.5	6.8	4.2	4.4	4.7	4.7	4.8	4.9
Conductivity, umhos	480	484	490	460	463	470	500	506	510
Total Alkalinity, ppm	205.0	210.4	215.0	205.0	209.9	215.0	230.0	233.6	240.0

Well Number	SM6-24			SM6-25			SM6-26		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	7.9	8.8	9.8	3.3	4.1	5.2	1.5	1.8	2.2
Barometric Pressure, in.	29.9	30.0	30.1	29.9	30.0	30.1	29.9	30.0	30.1
Sodium, ppm	23.0	24.4	26.0	22.0	24.0	25.0	25.0	26.6	28.0
Sulfate, ppm	14.0	14.7	15.0	13.0	14.0	15.0	12.0	12.7	14.0
Chloride, ppm	4.3	4.7	5.1	5.9	6.4	6.8	5.6	5.8	6.2
Conductivity, umhos	470	470	470	470	479	480	460	460	460
Total Alkalinity, ppm	205.0	215.4	220.0	200.0	207.1	220.0	200.0	206.1	213.0

Well Number	SM6-27			SM6-28			SM5-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	0.4	0.6	0.8	9.8	10.4	10.9	23.0	23.6	24.0
Barometric Pressure, in.	29.9	30.0	30.1	29.9	30.0	30.1	29.6	29.8	30.2
Sodium, ppm	24.0	26.1	28.0	27.0	28.7	30.0	133.0	136.0	140.0
Sulfate, ppm	13.0	13.6	14.0	19.0	20.4	22.0	55.0	55.3	57.0
Chloride, ppm	4.3	4.8	5.3	4.7	4.8	5.1	13.0	13.0	13.0
Conductivity, umhos	470	470	470	510	513	520	620	626	630
Total Alkalinity, ppm	200.0	212.6	220.0	228.0	231.0	238.0	230.0	235.0	240.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT
1st qtr. 2000 - page 4

Well Number	SM5-2			SM5-3			SM5-4		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	33.3	33.6	33.8	48.7	49.2	49.8	37.7	38.1	38.5
Barometric Pressure, in.	29.6	29.8	30.2	29.6	29.8	30.2	29.6	29.8	30.2
Sodium, ppm	98.0	100.0	102.0	131.0	133.1	137.0	121.0	123.7	127.0
Sulfate, ppm	31.0	31.9	33.0	50.0	51.4	53.0	47.0	48.0	50.0
Chloride, ppm	5.8	6.5	7.1	14.0	15.4	16.0	15.0	16.0	17.0
Conductivity, umhos	460	461	470	600	606	610	560	566	570
Total Alkalinity, ppm	180.0	187.1	195.0	220.0	227.3	238.0	200.0	206.1	210.0

Well Number	SM5-5			SM5-6			SM5-7		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	51.7	51.9	52.3	54.5	54.8	55.0	40.9	41.3	41.5
Barometric Pressure, in.	29.6	29.8	30.2	29.6	29.8	30.2	29.8	30.0	30.2
Sodium, ppm	134.0	137.1	140.0	126.0	127.6	130.0	128.0	129.1	131.0
Sulfate, ppm	53.0	54.7	56.0	56.0	57.0	58.0	56.0	58.0	61.0
Chloride, ppm	12.0	14.7	17.0	14.0	14.9	16.0	11.0	11.0	11.0
Conductivity, umhos	620	621	630	590	590	590	580	589	590
Total Alkalinity, ppm	230.0	234.7	240.0	200.0	209.0	220.0	208.0	215.9	220.0

Well Number	SM5-8			SM5-9			SM5-10		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	42.6	43.1	43.4	39.8	40.3	40.6	29.6	30.1	30.5
Barometric Pressure, in.	29.8	30.0	30.2	29.8	30.0	30.2	29.8	30.0	30.2
Sodium, ppm	122.0	123.0	124.0	120.0	121.1	122.0	120.0	122.1	124.0
Sulfate, ppm	52.0	53.4	55.0	51.0	52.1	53.0	54.0	55.4	58.0
Chloride, ppm	11.0	11.9	13.0	11.0	11.9	12.0	9.7	10.4	11.0
Conductivity, umhos	570	570	570	560	560	560	560	567	570
Total Alkalinity, ppm	200.0	205.4	210.0	198.0	207.6	220.0	200.0	207.1	215.0

Well Number	SM5-11			SM5-12			SM5-13		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	28.7	29.3	29.7	61.0	61.6	62.0	48.3	48.6	49.2
Barometric Pressure, in.	29.8	30.0	30.2	29.8	30.0	30.2	29.7	29.9	30.2
Sodium, ppm	129.0	131.4	133.0	122.0	123.4	124.0	119.0	120.2	121.0
Sulfate, ppm	54.0	54.9	56.0	53.0	55.1	57.0	52.0	53.3	54.0
Chloride, ppm	14.0	15.3	16.0	10.0	10.9	11.0	13.0	14.0	15.0
Conductivity, umhos	600	607	610	570	570	570	560	560	560
Total Alkalinity, ppm	210.0	221.1	230.0	205.0	210.6	215.0	190.0	195.5	200.0

Well Number	SM5-14			SM5-15			SM5-16		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	23.4	23.8	24.6	31.3	31.9	32.8	5.2	5.4	6.1
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	103.0	105.5	108.0	123.0	124.3	125.0	99.0	100.7	103.0
Sulfate, ppm	47.0	47.7	49.0	49.0	50.2	52.0	36.0	36.7	38.0
Chloride, ppm	7.1	7.4	7.8	15.0	15.7	16.0	5.4	5.8	6.2
Conductivity, umhos	490	490	490	570	575	580	460	460	460
Total Alkalinity, ppm	175.0	179.2	185.0	195.0	205.0	210.0	175.0	181.5	188.0

Well Number	SM5-17			SM5-18			SM5-19		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	61.9	62.0	62.2	78.2	78.5	78.8	50.1	50.2	50.3
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.0	29.8	30.5
Sodium, ppm	88.0	90.3	92.0	93.0	94.7	97.0	104.0	105.3	106.0
Sulfate, ppm	35.0	35.5	36.0	37.0	37.3	38.0	47.0	48.7	51.0
Chloride, ppm	2.2	2.5	2.9	2.9	3.1	3.7	4.0	4.3	4.5
Conductivity, umhos	420	422	430	440	440	440	490	490	490
Total Alkalinity, ppm	160.0	165.0	170.0	170.0	173.3	175.0	180.0	188.3	200.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

Well Number	SM5-20			SM5-21			SM5-22		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	45.4	45.8	46.6	33.6	33.7	33.8	20.6	20.8	21.0
Barometric Pressure, in.	29.6	29.9	30.1	29.6	29.9	30.1	29.6	29.9	30.1
Sodium, ppm	104.0	105.9	108.0	101.0	101.6	104.0	100.0	101.6	104.0
Sulfate, ppm	49.0	51.7	53.0	42.0	43.1	44.0	43.0	43.7	45.0
Chloride, ppm	5.4	5.7	5.9	5.4	5.8	6.3	3.3	3.6	4.0
Conductivity, umhos	490	497	500	470	473	480	470	470	470
Total Alkalinity, ppm	175.0	179.0	183.0	173.0	178.7	185.0	170.0	181.9	190.0

Well Number	SM5-23			SM5-24			SM5-25		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	30.0	30.1	30.2	22.8	22.9	23.0	42.0	42.1	42.2
Barometric Pressure, in.	29.6	29.9	30.1	29.6	29.9	30.1	29.6	29.9	30.1
Sodium, ppm	100.0	100.9	103.0	91.0	92.7	94.0	98.0	99.1	102.0
Sulfate, ppm	42.0	43.0	44.0	39.0	39.1	40.0	45.0	47.0	49.0
Chloride, ppm	3.3	3.4	3.6	5.4	5.7	6.0	6.5	7.0	7.4
Conductivity, umhos	470	470	470	450	450	450	470	473	480
Total Alkalinity, ppm	170.0	178.6	185.0	165.0	169.3	175.0	165.0	171.1	175.0

Well Number	SM4-1			SM4-2			SM4-3		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	73.5	73.5	73.6	70.0	71.1	73.9	81.5	81.8	82.1
Barometric Pressure, in.	29.8	30.0	30.2	29.6	29.9	30.1	29.6	29.9	30.1
Sodium, ppm	75.0	76.6	78.0	128.0	132.6	137.0	126.0	127.4	129.0
Sulfate, ppm	24.0	25.1	27.0	91.0	96.7	100.0	87.0	91.4	95.0
Chloride, ppm	3.7	4.3	5.1	14.0	15.6	17.0	13.0	13.1	14.0
Conductivity, umhos	380	381	390	620	640	660	610	617	620
Total Alkalinity, ppm	140.0	149.3	160.0	165.0	183.0	198.0	170.0	175.7	180.0

Well Number	SM4-4			SM4-5A			SM4-6		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	20.9	21.1	21.2	42.0	42.3	42.5	29.5	29.7	30.0
Barometric Pressure, in.	29.6	29.8	30.2	29.8	30.0	30.2	29.6	29.8	30.2
Sodium, ppm	129.0	131.9	134.0	117.0	118.7	120.0	145.0	147.7	150.0
Sulfate, ppm	75.0	77.4	79.0	52.0	52.7	54.0	47.0	48.1	50.0
Chloride, ppm	14.0	15.4	16.0	13.0	14.0	15.0	14.0	14.1	15.0
Conductivity, umhos	630	630	630	560	560	560	660	660	660
Total Alkalinity, ppm	195.0	200.4	208.0	190.0	198.6	210.0	258.0	262.6	270.0

Well Number	SM4-7			SM4-8			SM4-9		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	37.3	37.5	38.0	35.2	35.3	35.4	34.9	35.6	36.8
Barometric Pressure, in.	29.0	29.8	30.5	29.5	29.8	30.1	29.0	29.8	30.5
Sodium, ppm	117.0	118.8	120.0	155.0	159.8	162.0	154.0	155.3	157.0
Sulfate, ppm	50.0	50.5	51.0	49.0	49.5	50.0	40.0	48.3	52.0
Chloride, ppm	22.0	22.3	23.0	12.0	12.8	13.0	12.0	13.0	14.0
Conductivity, umhos	560	560	560	700	708	710	680	688	690
Total Alkalinity, ppm	180.0	189.2	200.0	288.0	293.0	295.0	283.0	287.7	293.0

Well Number	SM4-10A			SM4-11A			SM3-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	32.3	32.6	33.4	38.6	38.7	38.8	59.0	59.5	60.7
Barometric Pressure, in.	29.7	29.9	30.2	29.0	29.8	30.5	29.5	29.8	30.1
Sodium, ppm	162.0	164.5	167.0	160.0	161.5	163.0	139.0	143.8	146.0
Sulfate, ppm	52.0	53.0	54.0	51.0	53.3	57.0	96.0	97.5	100.0
Chloride, ppm	11.0	11.7	12.0	12.0	12.2	13.0	14.0	14.0	14.0
Conductivity, umhos	720	727	730	720	720	720	680	683	690
Total Alkalinity, ppm	295.0	299.7	308.0	290.0	294.2	295.0	205.0	211.3	218.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

Well Number	SM3-2			SM3-3			SM2-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	80.1	80.2	80.2	46.1	46.1	46.2	36.7	36.9	37.1
Barometric Pressure, in.	29.5	29.8	30.1	29.5	29.8	30.1	29.0	29.8	30.5
Sodium, ppm	94.0	97.2	99.0	96.0	99.3	101.0	116.0	117.5	118.0
Sulfate, ppm	38.0	39.3	41.0	39.0	39.8	41.0	46.0	47.5	49.0
Chloride, ppm	3.6	4.3	4.8	5.1	5.4	5.8	17.0	17.2	18.0
Conductivity, umhos	450	458	460	460	465	470	550	550	550
Total Alkalinity, ppm	170.0	178.3	185.0	180.0	181.3	185.0	180.0	186.3	198.0

Well Number	SM2-2			SM2-3			SM1-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	12.9	13.1	13.3	32.7	32.7	32.9	22.9	23.0	23.1
Barometric Pressure, in.	29.0	29.8	30.5	29.0	29.8	30.5	29.5	29.8	30.1
Sodium, ppm	98.0	99.0	100.0	118.0	119.8	122.0	97.0	100.3	102.0
Sulfate, ppm	43.0	44.2	45.0	51.0	52.0	54.0	32.0	32.2	33.0
Chloride, ppm	8.9	9.3	9.8	12.0	12.0	12.0	6.2	6.7	7.1
Conductivity, umhos	470	470	470	550	552	560	460	468	470
Total Alkalinity, ppm	170.0	171.7	175.0	185.0	196.7	210.0	170.0	182.5	190.0

Well Number	SM1-2			SM1-3			PR-8		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	14.7	14.8	14.8	46.3	46.4	46.4	140.3	142.0	143.0
Barometric Pressure, in.	29.5	29.8	30.1	29.5	29.8	30.1	29.7	29.9	30.2
Sodium, ppm	123.0	126.7	129.0	96.0	99.3	101.0	390.0	405.0	414.0
Sulfate, ppm	60.0	61.3	62.0	40.0	40.7	41.0	347.0	369.7	387.0
Chloride, ppm	13.0	13.3	14.0	7.6	7.9	8.2	139.0	148.1	156.0
Conductivity, umhos	590	590	590	470	470	470	1850	1920	1960
Total Alkalinity, ppm	198.0	206.3	215.0	165.0	178.8	185.0	340.0	348.0	360.0

Well Number	PR-15			IJ-13			CM7-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	125.8	131.3	138.3	163.7	166.7	168.7	206.1	208.0	209.4
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.0	29.8	30.5
Sodium, ppm	280.0	288.8	297.0	425.0	438.5	448.0	382.0	386.8	391.0
Sulfate, ppm	225.0	236.3	247.0	382.0	391.7	403.0	322.0	331.8	352.0
Chloride, ppm	108.0	110.5	114.0	156.0	164.0	168.0	168.0	178.2	186.0
Conductivity, umhos	1370	1419	1450	2010	2090	2150	1840	1852	1860
Total Alkalinity, ppm	275.0	285.3	300.0	378.0	391.3	405.0	280.0	295.0	305.0

Well Number	CM7-2			CM7-3			CM7-4		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	224.1	225.6	227.0	192.6	195.2	197.4	196.5	199.2	201.6
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	368.0	373.5	381.0	387.0	392.8	399.0	383.0	385.8	389.0
Sulfate, ppm	288.0	298.3	309.0	309.0	318.0	323.0	306.0	313.7	319.0
Chloride, ppm	178.0	181.7	185.0	183.0	187.8	195.0	183.0	185.0	187.0
Conductivity, umhos	1760	1782	1800	1870	1882	1900	1840	1842	1850
Total Alkalinity, ppm	280.0	288.0	295.0	295.0	298.5	300.0	295.0	300.5	305.0

Well Number	CM7-5			CM7-6			CM7-7		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	202.2	205.0	207.4	190.7	193.3	195.5	195.3	196.9	199.1
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.5	29.8	30.1
Sodium, ppm	394.0	396.7	402.0	403.0	408.0	411.0	393.0	398.5	407.0
Sulfate, ppm	310.0	318.7	325.0	312.0	321.8	329.0	345.0	349.7	359.0
Chloride, ppm	193.0	204.5	214.0	194.0	214.3	229.0	186.0	189.0	191.0
Conductivity, umhos	1880	1907	1930	1900	1947	1980	1900	1922	1930
Total Alkalinity, ppm	290.0	295.8	305.0	290.0	296.8	305.0	290.0	297.7	308.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

Well Number	CM7-8			CM7-9			CM7-10		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	201.2	202.2	204.2	253.6	254.6	256.3	244.1	245.5	247.0
Barometric Pressure, in.	29.5	29.8	30.1	29.5	29.8	30.1	29.5	29.8	30.1
Sodium, ppm	392.0	395.8	397.0	398.0	400.7	405.0	400.0	405.3	412.0
Sulfate, ppm	318.0	327.0	334.0	323.0	326.0	333.0	349.0	353.5	359.0
Chloride, ppm	185.0	187.3	191.0	188.0	192.8	196.0	186.0	189.3	192.0
Conductivity, umhos	1870	1878	1880	1890	1898	1910	1930	1940	1950
Total Alkalinity, ppm	288.0	294.8	303.0	285.0	293.0	300.0	285.0	292.5	300.0

Well Number	CM7-11			CM7-12			CM7-13		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	210.4	212.5	214.1	195.7	198.5	200.0	179.6	181.1	182.2
Barometric Pressure, in.	29.5	29.8	30.1	29.5	29.8	30.1	29.5	29.8	30.1
Sodium, ppm	397.0	400.0	402.0	398.0	401.5	404.0	405.0	407.0	410.0
Sulfate, ppm	351.0	358.3	368.0	350.0	356.7	365.0	357.0	363.2	369.0
Chloride, ppm	185.0	188.2	190.0	187.0	189.7	192.0	186.0	189.0	191.0
Conductivity, umhos	1920	1937	1940	1930	1938	1940	1950	1960	1970
Total Alkalinity, ppm	290.0	297.5	300.0	285.0	291.7	300.0	290.0	295.5	300.0

Well Number	CM7-14			CM7-15			CM7-16		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	167.0	167.7	168.7	176.9	178.7	179.7	185.4	186.9	188.0
Barometric Pressure, in.	29.5	29.8	30.1	29.5	29.8	30.1	29.5	29.8	30.1
Sodium, ppm	397.0	400.5	402.0	407.0	412.8	416.0	404.0	408.7	411.0
Sulfate, ppm	359.0	362.8	367.0	352.0	361.3	371.0	344.0	350.0	354.0
Chloride, ppm	185.0	186.5	189.0	187.0	189.2	192.0	186.0	186.8	189.0
Conductivity, umhos	1930	1935	1940	1940	1960	1970	1940	1943	1950
Total Alkalinity, ppm	280.0	289.2	300.0	290.0	300.0	305.0	285.0	294.2	305.0

Well Number	CM6-1			CM6-2			CM6-3		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	106.0	109.0	113.8	108.7	112.5	119.9	100.0	103.5	111.3
Barometric Pressure, in.	29.6	29.8	30.2	29.6	29.8	30.2	29.6	29.8	30.2
Sodium, ppm	403.0	407.6	411.0	404.0	406.1	408.0	401.0	403.6	406.0
Sulfate, ppm	367.0	372.9	380.0	371.0	379.6	391.0	350.0	359.0	378.0
Chloride, ppm	185.0	190.3	196.0	176.0	179.4	185.0	179.0	182.9	185.0
Conductivity, umhos	1930	1956	1980	1930	1940	1950	1920	1923	1930
Total Alkalinity, ppm	275.0	280.4	285.0	275.0	281.4	285.0	280.0	290.0	300.0

Well Number	CM6-4			CM6-5			CM6-6		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	120.3	123.8	127.7	110.4	113.2	117.1	103.9	107.0	110.3
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	406.0	409.2	414.0	400.0	402.7	405.0	412.0	415.8	420.0
Sulfate, ppm	358.0	363.2	369.0	373.0	381.3	387.0	362.0	370.0	379.0
Chloride, ppm	179.0	182.8	186.0	179.0	181.0	183.0	180.0	184.9	189.0
Conductivity, umhos	1930	1933	1940	1930	1938	1940	1960	1978	2000
Total Alkalinity, ppm	290.0	295.8	300.0	280.0	285.0	295.0	290.0	300.0	310.0

Well Number	CM6-7			CM6-8			CM6-9		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	90.5	96.7	100.3	96.6	99.0	101.3	92.6	95.1	97.1
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	404.0	406.7	409.0	405.0	409.2	413.0	418.0	428.2	441.0
Sulfate, ppm	372.0	384.0	392.0	363.0	371.7	381.0	369.0	377.0	389.0
Chloride, ppm	174.0	180.3	184.0	177.0	183.0	187.0	190.0	197.9	204.0
Conductivity, umhos	1950	1953	1960	1950	1955	1960	1990	2032	2080
Total Alkalinity, ppm	285.0	290.3	297.0	280.0	290.0	300.0	290.0	306.0	321.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

Well Number	CM6-10			CM6-11			CM6-12		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	79.5	81.5	82.7	60.9	62.9	64.0	85.4	102.1	108.5
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.6	29.9	30.1
Sodium, ppm	403.0	411.2	416.0	402.0	408.5	412.0	410.0	414.9	418.0
Sulfate, ppm	372.0	381.3	386.0	347.0	352.5	358.0	356.0	364.6	379.0
Chloride, ppm	177.0	182.7	186.0	183.0	187.9	191.0	186.0	186.9	189.0
Conductivity, umhos	1960	1968	1970	1940	1942	1950	1950	1966	1990
Total Alkalinity, ppm	280.0	285.8	295.0	290.0	298.0	310.0	290.0	298.6	305.0

Well Number	CM6-13			CM6-14			CM6-15		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	97.2	110.6	115.8	90.5	102.8	108.8	94.5	104.9	111.0
Barometric Pressure, in.	29.6	29.9	30.1	29.6	29.9	30.1	29.6	29.9	30.1
Sodium, ppm	409.0	412.9	416.0	403.0	406.4	410.0	404.0	406.4	409.0
Sulfate, ppm	344.0	351.7	360.0	353.0	358.3	363.0	360.0	364.1	369.0
Chloride, ppm	183.0	186.1	188.0	179.0	182.9	186.0	179.0	181.0	184.0
Conductivity, umhos	1940	1943	1950	1930	1931	1940	1930	1933	1940
Total Alkalinity, ppm	295.0	300.4	305.0	285.0	292.9	300.0	290.0	290.7	295.0

Well Number	CM6-16A			CM6-17			CM6-18		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	93.5	102.8	108.9	93.9	96.9	101.6	88.2	93.4	98.4
Barometric Pressure, in.	29.6	29.9	30.1	29.8	30.0	30.2	29.8	30.0	30.2
Sodium, ppm	406.0	409.0	413.0	400.0	404.0	406.0	399.0	403.1	405.0
Sulfate, ppm	353.0	363.1	367.0	342.0	355.1	368.0	348.0	357.7	366.0
Chloride, ppm	181.0	183.9	186.0	182.0	184.7	187.0	183.0	185.0	186.0
Conductivity, umhos	1940	1941	1950	1930	1931	1940	1930	1933	1940
Total Alkalinity, ppm	285.0	292.9	300.0	290.0	296.1	300.0	290.0	294.0	308.0

Well Number	CM6-19			CM6-20			CM6-21		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	75.9	80.8	85.9	51.7	53.5	54.6	47.3	48.7	49.6
Barometric Pressure, in.	29.8	30.0	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	402.0	408.6	415.0	410.0	414.2	420.0	395.0	400.8	406.0
Sulfate, ppm	348.0	359.0	369.0	343.0	350.3	358.0	345.0	352.0	363.0
Chloride, ppm	182.0	184.4	187.0	194.0	196.3	199.0	177.0	184.3	187.0
Conductivity, umhos	1940	1943	1950	1960	1970	1980	1910	1913	1920
Total Alkalinity, ppm	290.0	295.7	300.0	280.0	296.2	312.0	285.0	292.7	301.0

Well Number	CM6-22			CM6-23			CM6-24		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	44.2	45.3	46.3	40.1	42.3	44.7	39.5	41.2	43.0
Barometric Pressure, in.	29.7	29.9	30.2	29.9	30.0	30.1	29.9	30.0	30.1
Sodium, ppm	392.0	401.0	405.0	401.0	405.4	414.0	400.0	403.6	410.0
Sulfate, ppm	341.0	350.5	359.0	328.0	334.7	339.0	321.0	326.1	332.0
Chloride, ppm	181.0	186.0	189.0	188.0	189.4	191.0	180.0	183.6	186.0
Conductivity, umhos	1920	1920	1920	1900	1917	1920	1900	1901	1910
Total Alkalinity, ppm	290.0	292.2	300.0	305.0	308.7	310.0	300.0	308.7	318.0

Well Number	CM6-25			CM6-26			CM6-27		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	62.7	68.5	72.3	59.9	65.1	68.8	42.9	44.8	46.5
Barometric Pressure, in.	29.9	30.0	30.1	29.9	30.0	30.1	29.9	30.0	30.1
Sodium, ppm	398.0	401.1	404.0	399.0	401.4	405.0	397.0	399.0	403.0
Sulfate, ppm	343.0	348.9	353.0	341.0	350.3	355.0	318.0	322.4	326.0
Chloride, ppm	182.0	185.4	188.0	182.0	184.0	186.0	189.0	189.7	190.0
Conductivity, umhos	1910	1923	1930	1900	1917	1930	1890	1897	1910
Total Alkalinity, ppm	290.0	302.6	310.0	295.0	301.4	310.0	300.0	308.0	315.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

Well Number	CM6-28			CM6-29			CM6-30		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	50.1	52.0	53.7	60.8	65.1	68.8	56.2	57.2	58.9
Barometric Pressure, in.	29.9	30.0	30.1	29.9	30.0	30.1	29.9	30.0	30.1
Sodium, ppm	396.0	397.7	400.0	400.0	403.4	407.0	395.0	397.9	400.0
Sulfate, ppm	308.0	312.3	318.0	342.0	345.7	353.0	316.0	323.4	331.0
Chloride, ppm	177.0	179.6	183.0	185.0	186.4	189.0	181.0	184.6	187.0
Conductivity, umhos	1850	1859	1860	1920	1924	1930	1880	1881	1890
Total Alkalinity, ppm	300.0	313.0	320.0	300.0	303.1	305.0	295.0	305.0	315.0

Well Number	CM6-31			CM6-32			CM5-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	56.1	58.2	60.3	60.0	63.3	66.1	154.6	156.7	158.8
Barometric Pressure, in.	29.9	30.0	30.1	29.9	30.0	30.1	29.0	29.8	30.5
Sodium, ppm	400.0	403.4	407.0	402.0	407.6	415.0	411.0	420.3	427.0
Sulfate, ppm	323.0	326.7	331.0	334.0	339.0	344.0	355.0	360.3	368.0
Chloride, ppm	177.0	180.4	184.0	183.0	184.7	186.0	188.0	191.3	194.0
Conductivity, umhos	1890	1891	1900	1910	1923	1930	1950	1983	2010
Total Alkalinity, ppm	310.0	314.0	320.0	300.0	307.6	315.0	290.0	306.7	320.0

Well Number	CM5-2			CM5-3			CM5-4		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	155.6	158.6	160.9	173.7	177.1	179.1	158.2	162.6	165.0
Barometric Pressure, in.	29.0	29.8	30.5	29.0	29.8	30.5	29.0	29.8	30.5
Sodium, ppm	400.0	402.8	406.0	392.0	395.3	400.0	397.0	399.8	402.0
Sulfate, ppm	341.0	345.8	350.0	324.0	335.7	344.0	322.0	331.5	338.0
Chloride, ppm	179.0	181.7	184.0	179.0	182.0	184.0	182.0	183.2	185.0
Conductivity, umhos	1900	1905	1910	1870	1878	1880	1880	1888	1890
Total Alkalinity, ppm	290.0	299.2	305.0	290.0	298.0	310.0	290.0	298.8	318.0

Well Number	CM5-5			CM5-6			CM5-7		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	144.7	147.5	149.1	145.0	147.2	149.3	142.3	144.4	146.9
Barometric Pressure, in.	29.0	29.8	30.5	29.6	29.8	30.2	29.6	29.8	30.2
Sodium, ppm	400.0	402.2	405.0	398.0	401.6	406.0	398.0	402.4	408.0
Sulfate, ppm	325.0	332.0	338.0	323.0	332.9	340.0	333.0	341.0	351.0
Chloride, ppm	180.0	182.2	185.0	177.0	182.0	186.0	179.0	181.0	183.0
Conductivity, umhos	1880	1890	1900	1880	1880	1880	1890	1897	1900
Total Alkalinity, ppm	300.0	305.0	310.0	290.0	300.0	310.0	290.0	297.6	300.0

Well Number	CM5-8			CM5-9			CM5-10		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	150.9	153.5	156.3	138.9	141.7	144.8	130.8	134.0	137.8
Barometric Pressure, in.	29.6	29.8	30.2	29.6	29.8	30.2	29.6	29.8	30.2
Sodium, ppm	426.0	439.4	452.0	404.0	408.3	412.0	415.0	421.3	426.0
Sulfate, ppm	370.0	379.1	394.0	342.0	347.4	355.0	363.0	370.6	376.0
Chloride, ppm	191.0	199.7	206.0	181.0	183.4	186.0	190.0	194.3	199.0
Conductivity, umhos	2040	2070	2100	1920	1920	1920	1980	1999	2020
Total Alkalinity, ppm	315.0	320.4	325.0	290.0	301.4	310.0	300.0	304.3	310.0

Well Number	CM5-11			CM5-12			CM5-13		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	120.2	124.3	128.3	106.9	112.8	117.4	79.9	109.3	118.1
Barometric Pressure, in.	29.6	29.8	30.2	29.6	29.8	30.2	29.6	29.9	30.1
Sodium, ppm	418.0	424.1	439.0	405.0	414.7	435.0	407.0	417.1	427.0
Sulfate, ppm	350.0	359.3	368.0	348.0	356.3	367.0	371.0	383.1	396.0
Chloride, ppm	197.0	201.0	205.0	183.0	190.7	209.0	188.0	195.6	206.0
Conductivity, umhos	1980	1999	2040	1920	1959	2090	1960	1999	2040
Total Alkalinity, ppm	290.0	297.1	305.0	290.0	297.6	310.0	280.0	284.3	290.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

Well Number	CM5-18			CM5-19			CM5-20		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	92.3	113.2	120.8	137.8	149.7	154.8	110.5	121.0	125.6
Barometric Pressure, in.	29.6	29.9	30.1	29.6	29.9	30.1	29.6	29.9	30.1
Sodium, ppm	402.0	406.1	414.0	406.0	409.6	416.0	405.0	409.4	413.0
Sulfate, ppm	353.0	356.4	362.0	350.0	355.7	358.0	343.0	353.3	363.0
Chloride, ppm	183.0	185.1	186.0	183.0	185.4	187.0	181.0	184.0	189.0
Conductivity, umhos	1920	1926	1930	1940	1941	1950	1930	1933	1940
Total Alkalinity, ppm	295.0	295.7	300.0	290.0	297.6	305.0	290.0	295.0	300.0

Well Number	CM5-21			CM5-22			CM5-23		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	92.7	105.9	110.8	111.7	112.6	114.3	118.8	119.8	120.6
Barometric Pressure, in.	29.6	29.9	30.1	29.8	30.0	30.2	29.8	30.0	30.2
Sodium, ppm	411.0	413.9	417.0	407.0	413.7	418.0	399.0	403.1	410.0
Sulfate, ppm	352.0	356.3	361.0	352.0	362.1	377.0	346.0	359.0	367.0
Chloride, ppm	181.0	182.7	186.0	186.0	187.6	190.0	181.0	184.0	186.0
Conductivity, umhos	1940	1944	1950	1950	1964	1990	1930	1930	1930
Total Alkalinity, ppm	288.0	295.1	303.0	295.0	300.4	310.0	290.0	294.4	300.0

Well Number	CM5-24			CM5-25			CM5-26		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	125.7	127.2	129.2	128.1	131.1	133.0	162.5	167.9	170.7
Barometric Pressure, in.	29.8	30.0	30.2	29.8	30.0	30.2	29.8	30.0	30.2
Sodium, ppm	399.0	406.4	412.0	403.0	411.4	417.0	407.0	409.1	412.0
Sulfate, ppm	344.0	352.7	364.0	360.0	369.6	378.0	354.0	360.6	367.0
Chloride, ppm	181.0	186.9	191.0	182.0	186.0	188.0	184.0	186.1	188.0
Conductivity, umhos	1940	1944	1950	1950	1967	1980	1950	1951	1960
Total Alkalinity, ppm	290.0	296.1	305.0	290.0	297.9	305.0	290.0	295.7	300.0

Well Number	CM5-27			CM4-1			CM4-2		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	188.0	191.9	195.0	143.4	145.4	147.2	162.2	164.5	166.0
Barometric Pressure, in.	29.8	30.0	30.2	29.0	29.8	30.5	29.0	29.8	30.5
Sodium, ppm	413.0	415.0	418.0	394.0	399.0	404.0	386.0	389.3	395.0
Sulfate, ppm	358.0	365.3	374.0	320.0	327.7	330.0	317.0	321.2	325.0
Chloride, ppm	185.0	186.6	188.0	182.0	183.3	185.0	183.0	186.3	188.0
Conductivity, umhos	1960	1966	1970	1870	1873	1880	1860	1865	1870
Total Alkalinity, ppm	293.0	299.9	310.0	295.0	300.5	310.0	300.0	300.8	305.0

Well Number	CM4-3			CM4-4			CM4-5		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	151.2	153.3	154.4	166.8	168.7	169.8	176.0	177.8	179.1
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	397.0	400.0	404.0	393.0	395.5	399.0	380.0	382.8	387.0
Sulfate, ppm	317.0	324.5	333.0	306.0	313.7	318.0	320.0	325.5	332.0
Chloride, ppm	187.0	188.0	189.0	179.0	182.7	186.0	179.0	181.0	183.0
Conductivity, umhos	1870	1887	1910	1850	1850	1850	1840	1842	1850
Total Alkalinity, ppm	300.0	306.7	315.0	300.0	308.0	320.0	290.0	295.5	305.0

Well Number	CM4-6			CM4-7			CM3-5		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	183.0	184.8	186.1	188.0	189.5	191.2	194.1	197.3	200.5
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.8	30.0	30.2
Sodium, ppm	385.0	388.3	391.0	386.0	387.3	390.0	408.0	414.0	418.0
Sulfate, ppm	323.0	326.8	330.0	314.0	324.2	331.0	357.0	368.6	379.0
Chloride, ppm	177.0	180.5	183.0	179.0	181.7	184.0	188.0	189.7	193.0
Conductivity, umhos	1850	1852	1860	1850	1852	1860	1960	1963	1970
Total Alkalinity, ppm	295.0	300.0	305.0	290.0	298.3	305.0	295.0	300.7	310.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT
1st qtr. 2000 - page 11

Well Number	CM3-6			CM2-5			CM2-6		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	195.7	197.9	199.9	143.3	145.4	147.3	145.9	147.9	150.2
Barometric Pressure, in.	29.5	29.8	30.1	29.0	29.8	30.5	29.0	29.8	30.5
Sodium, ppm	408.0	412.0	417.0	397.0	407.2	416.0	396.0	398.2	402.0
Sulfate, ppm	355.0	363.2	370.0	335.0	341.5	348.0	326.0	333.8	342.0
Chloride, ppm	185.0	187.8	189.0	187.0	188.3	190.0	186.0	186.3	188.0
Conductivity, umhos	1940	1948	1950	1920	1938	1950	1890	1893	1900
Total Alkalinity, ppm	290.0	297.5	305.0	310.0	314.2	320.0	295.0	300.8	305.0

Well Number	CM2-7		
	MIN	MEAN	MAX
Water Level, ft.	130.2	132.2	134.5
Barometric Pressure, in.	29.0	29.8	30.5
Sodium, ppm	450.0	455.2	459.0
Sulfate, ppm	386.0	393.8	399.0
Chloride, ppm	206.0	211.5	215.0
Conductivity, umhos	2150	2177	2200
Total Alkalinity, ppm	343.0	348.2	358.0

CROW BUTTE RESOURCES, INC.
PLUGGING PROCEDURE

HOLE NUMBER	METHOD AND MATERIALS USED			TD VIS	FINAL VIS	DATE	INSPECTED BY:
R-486	7	Bags Plug Gel	Soda Ash	27	100	1-6-00	D.C.
R-487	8	Bags Plug Gel	Soda Ash	27	75	1-5-00	
R-488	6	Bags Plug Gel	Soda Ash	28	81	1-5-00	
R-489	6	Bags Plug Gel	Soda Ash	29	90	1-6-00	D.C.
R-490	7	Bags Plug Gel	Soda Ash	27	87	1-6-00	
R-491	5	Bags Plug Gel	Soda Ash	27	86	1-7-00	D.C.
R-492	5	Bags Plug Gel	Soda Ash	28	80	1-7-00	D.C.
R-493	7	Bags Plug Gel	Soda Ash	27	61	1-12-00	
R-494	10	Bags Plug Gel	Soda Ash	27	65	1-11-00	D.C.
R-495	7	Bags Plug Gel	Soda Ash	27	86	1-11-00	
R-496	10	Bags Plug Gel	Soda Ash	29	65	1-5-00	D.C
R-497	10	Bags Plug Gel	Soda Ash	28	62	1-5-00	D. C.
R-498	10	Bags Plug Gel	Soda Ash	28	62	1-4-00	
R-499	10	Bags Plug Gel	Soda Ash	29	68	1-4-00	D.C.
R-500	10	Bags Plug Gel	Soda Ash	28	100+	1-4-00	D.C.
R-501	9	Bags Plug Gel	Soda Ash	29	65	1-5-00	D.C.
R-502	10	Bags Plug Gel	Soda Ash	29	63	1-5-00	
R-503	7	Bags Plug Gel	Soda Ash	28	63	1-6-00	D.C.
R-504	8	Bags Plug Gel	Soda Ash	29	61	1-6-00	D.C
R-505	9	Bags Plug Gel	Soda Ash	28	75	1-6-00	
R-484	10	Bags Plug Gel	Soda Ash	28	65	1-6-00	
R-485	7	Bags Plug Gel	Soda Ash	29	63	1-7-00	D.C.
R-506	8	Bags Plug Gel	Soda Ash	27	60	1-10-00	D.C.
R-507	10	Bags Plug Gel	Soda Ash	28	63	1-10-00	
R-508	11	Bags Plug Gel	Soda Ash	28	80	1-10-00	D.C.
R-509	10	Bags Plug Gel	Soda Ash	28	63	1-11-00	
R-510	10	Bags Plug Gel	Soda Ash	28	66	1-11-00	D.C.
R-511	11	Bags Plug Gel	Soda Ash	27	65	1-11-00	D.C.
R-512	9	Bags Plug Gel	Soda Ash	29	62	1-7-00	
R-513	10	Bags Plug Gel	Soda Ash	27	63	1-7-00	D.C.
R-514	11	Bags Plug Gel	Soda Ash	27	61	1-10-00	

CROW BUTTE RESOURCES, INC.
PLUGGING PROCEDURE

HOLE NUMBER	METHOD AND MATERIALS USED			TD VIS	FINAL VIS	DATE	INSPECTED BY:
R-515	11	Bags Plug Gel	Soda Ash	28	62	1-11-00	D.C.
R-516	9	Bags Plug Gel	Soda Ash	27	75	1-11-00	D.C.
R-517	6	Bags Plug Gel	Soda Ash	27	84	1-10-00	
R-518	7	Bags Plug Gel	Soda Ash	27	90	1-10-00	D.C.
R-519	7	Bags Plug Gel	Soda Ash	27	83	1-10-00	
R-520	5	Bags Plug Gel	Soda Ash	28	76	1-7-00	
R-521	10	Bags Plug Gel	Soda Ash	27	87	1-13-00	D.C.
R-522	8	Bags Plug Gel	Soda Ash	27	60	1-13-00	D.C.
R-523	8	Bags Plug Gel	Soda Ash	27	64	1-13-00	
R-524	7	Bags Plug Gel	Soda Ash	27	68	1-14-00	D.C.
R-525	9	Bags Plug Gel	Soda Ash	27	61	1-14-00	D.C.
R-526	10	Bags Plug Gel	Soda Ash	28	65	1-12-00	
R-527	11	Bags Plug Gel	Soda Ash	29	65	1-12-00	D.C.
R-528	11	Bags Plug Gel	Soda Ash	28	62	1-12-00	
R-529	8	Bags Plug Gel	Soda Ash	28	66	1-12-00	D.C.
R-530	6	Bags Plug Gel	Soda Ash	28	72	1-13-00	
R-531	10	Bags Plug Gel	Soda Ash	27	98	1-13-00	D.C.
R-532	10	Bags Plug Gel	Soda Ash	29	62	1-13-00	D.C.
R-533	7	Bags Plug Gel	Soda Ash	27	61	1-14-00	
R-534	8	Bags Plug Gel	Soda Ash	27	82	1-17-00	
R-535	7	Bags Plug Gel	Soda Ash	28	63	1-14-00	
R-536	7	Bags Plug Gel	Soda Ash	27	67	1-14-00	D.C.
R-537	11	Bags Plug Gel	Soda Ash	28	60	1-14-00	D.C.
R-538	10	Bags Plug Gel	Soda Ash	27	65	1-13-00	
R-539	7	Bags Plug Gel	Soda Ash	27	100 +	1-12-00	D.C.
R-540	6	Bags Plug Gel	Soda Ash	27	69	1-12-00	
R-541	10	Bags Plug Gel	Soda Ash	27	61	1-18-00	D.C
R-542	10	Bags Plug Gel	Soda Ash	28	63	1-17-00	
R-543	8	Bags Plug Gel	Soda Ash	27	80	1-18-00	
R-544	7	Bags Plug Gel	Soda Ash	27	60	1-18-00	D.C.
R-545	9	Bags Plug Gel	Soda Ash	27	79	1-17-00	

CROW BUTTE RESOURCES, INC.
PLUGGING PROCEDURE

HOLE NUMBER	METHOD AND MATERIALS USED			TD VIS	FINAL VIS	DATE	INSPECTED BY:
R-546	8	Bags Plug Gel	Soda Ash	27	82	1-17-00	
R-547	9	Bags Plug Gel	Soda Ash	28	75	1-17-00	
R-548	7	Bags Plug Gel	Soda Ash	27	61	1-17-00	
R-549	8	Bags Plug Gel	Soda Ash	28	66	1-21-00	
R-550	10	Bags Plug Gel	Soda Ash	27	62	1-21-00	D.C.
R-551	6	Bags Plug Gel	Soda Ash	29	67	1-21-00	D.C.
R-552	8	Bags Plug Gel	Soda Ash	27	62	1-27-00	
R-553	8	Bags Plug Gel	Soda Ash	28	65	1-24-00	
R-554	9	Bags Plug Gel	Soda Ash	27	67	1-24-00	D.C.
R-555	7	Bags Plug Gel	Soda Ash	28	74	1-19-00	D.C.
R-556	8	Bags Plug Gel	Soda Ash	27	60	1-19-00	D.C.
R-557	9	Bags Plug Gel	Soda Ash	27	73	1-19-00	
R-558	10	Bags Plug Gel	Soda Ash	27	91	1-20-00	D.C.
R-559	9	Bags Plug Gel	Soda Ash	27	60	1-18-00	
R-560	8	Bags Plug Gel	Soda Ash	27	60	1-18-00	D.C.
R-561	8	Bags Plug Gel	Soda Ash	27	60	1-19-00	D.C.
R-562	10	Bags Plug Gel	Soda Ash	27	61	1-18-00	D.C.
R-563	7	Bags Plug Gel	Soda Ash	28	65	1-18-00	
R-564	6	Bags Plug Gel	Soda Ash	29	70	1-19-00	
R-565	7	Bags Plug Gel	Soda Ash	28	61	1-20-00	D.C.
R-566	8	Bags Plug Gel	Soda Ash	28	65	1-20-00	
R-567	9	Bags Plug Gel	Soda Ash	27	61	1-21-00	
R-568	9	Bags Plug Gel	Soda Ash	28	75	1-21-00	D.C.
R-569	7	Bags Plug Gel	Soda Ash	28	87	1-20-00	D.C.
R-570	9	Bags Plug Gel	Soda Ash	27	61	1-24-00	D.C.
R-571	7	Bags Plug Gel	Soda Ash	27	67	1-25-00	D.C.
R-572	6	Bags Plug Gel	Soda Ash	28	65	1-20-00	
R-573	10	Bags Plug Gel	Soda Ash	27	61	1-21-00	D.C
R-574	7	Bags Plug Gel	Soda Ash	27	87	1-24-00	
R-575	10	Bags Plug Gel	Soda Ash	29	64	1-25-00	D.C.
R-576	7	Bags Plug Gel	Soda Ash	27	69	1-24-00	

CROW BUTTE RESOURCES, INC.
PLUGGING PROCEDURE

HOLE NUMBER	METHOD AND MATERIALS USED			TD VIS	FINAL VIS	DATE	INSPECTED BY:
R-577	9	Bags Plug Gel	Soda Ash	28	71	1-25-00	
R-578	9	Bags Plug Gel	Soda Ash	29	61	1-26-00	D.C.
R-579	8	Bags Plug Gel	Soda Ash	27	65	1-26-00	D.C.
R-580	9	Bags Plug Gel	Soda Ash	29	70	1-27-00	D.C.
R-581	9	Bags Plug Gel	Soda Ash	28	62	1-26-00	
R-582	10	Bags Plug Gel	Soda Ash	27	65	1-25-00	
R-583	10	Bags Plug Gel	Soda Ash	28	65	1-25-00	D.C.
R-584	10	Bags Plug Gel	Soda Ash	28	64	1-24-00	D.C.
R-585	10	Bags Plug Gel	Soda Ash	27	62	1-25-00	D.C.
R-586	10	Bags Plug Gel	Soda Ash	27	60	1-20-00	D.C.
R-587	9	Bags Plug Gel	Soda Ash	28	65	1-26-00	D.C.
R-588	10	Bags Plug Gel	Soda Ash	27	60	1-26-00	D.C.
R-589	9	Bags Plug Gel	Soda Ash	28	65	1-26-00	
R-590	10	Bags Plug Gel	Soda Ash	28	68	1-27-00	D.C.
R-591	7	Bags Plug Gel	Soda Ash	28	67	2-1-00	
R-592	8	Bags Plug Gel	Soda Ash	27	82	1-27-00	D.C.
R-593	9	Bags Plug Gel	Soda Ash	27	100+	1-27-00	D.C.
R-594	9	Bags Plug Gel	Soda Ash	29	60	1-26-00	
R-595	7	Bags Plug Gel	Soda Ash	28	74	1-28-00	
R-596	7	Bags Plug Gel	Soda Ash	28	61	1-27-00	
R-597	7	Bags Plug Gel	Soda Ash	29	95	1-31-00	
R-598	8	Bags Plug Gel	Soda Ash	28	60	1-28-00	D.C.
R-599	9	Bags Plug Gel	Soda Ash	27	60	1-28-00	D.C.
R-600	8	Bags Plug Gel	Soda Ash	27	89	1-31-00	
R-601	9	Bags Plug Gel	Soda Ash	27	96	1-28-00	
R-602	10	Bags Plug Gel	Soda Ash	27	96	1-28-00	D.C.
R-603	10	Bags Plug Gel	Soda Ash	27	62	1-31-00	
R-604	8	Bags Plug Gel	Soda Ash	27	62	2-8-00	D.C.
R-605	6	Bags Plug Gel	Soda Ash	29	65	1-28-00	
R-606	8	Bags Plug Gel	Soda Ash	28	62	1-31-00	
R-607	7	Bags Plug Gel	Soda Ash	27	62	2-9-00	D.C.

CROW BUTTE RESOURCES, INC.
PLUGGING PROCEDURE

HOLE NUMBER	METHOD AND MATERIALS USED			TD VIS	FINAL VIS	DATE	INSPECTED BY:
R-608	7	Bags Plug Gel	Soda Ash	27	78	1-31-00	
R-609	8	Bags Plug Gel	Soda Ash	28	76	1-31-00	
R-610	7	Bags Plug Gel	Soda Ash	28	63	2-1-00	
R-611	8	Bags Plug Gel	Soda Ash	27	61	2-1-00	
R-612	8	Bags Plug Gel	Soda Ash	29	67	2-1-00	
R-613	6	Bags Plug Gel	Soda Ash	28	65	2-2-00	
R-614	7	Bags Plug Gel	Soda Ash	27	62	2-2-00	
R-615	7	Bags Plug Gel	Soda Ash	28	64	2-1-00	
R-616	8	Bags Plug Gel	Soda Ash	28	62	2-1-00	
R-617	7	Bags Plug Gel	Soda Ash	27	63	2-2-00	
R-618	8	Bags Plug Gel	Soda Ash	28	64	2-7-00	D.C.
R-619	7	Bags Plug Gel	Soda Ash	27	62	2-4-00	
R-620	7	Bags Plug Gel	Soda Ash	27	70	2-4-00	
R-621	6	Bags Plug Gel	Soda Ash	28	64	2-4-00	
R-622	7	Bags Plug Gel	Soda Ash	28	65	2-3-00	
R-623	13	Bags Plug Gel	Soda Ash	27	70	2-3-00	
R-624	6	Bags Plug Gel	Soda Ash	28	82	2-2-00	
R-625	7	Bags Plug Gel	Soda Ash	27	100+	2-2-00	
R-626	7	Bags Plug Gel	Soda Ash	28	80	2-2-00	
R-627	8	Bags Plug Gel	Soda Ash	27	62	2-3-00	
R-628	7	Bags Plug Gel	Soda Ash	27	83	2-3-00	
R-629	7	Bags Plug Gel	Soda Ash	28	82	2-3-00	
R-630	7	Bags Plug Gel	Soda Ash	27	64	2-4-00	
R-631	7	Bags Plug Gel	Soda Ash	27	79	2-4-00	
R-632	7	Bags Plug Gel	Soda Ash	28	71	2-4-00	
R-633	8	Bags Plug Gel	Soda Ash	27	65	2-7-00	D.C.
R-634	8	Bags Plug Gel	Soda Ash	28	87	2-8-00	D.C.
R-635	10	Bags Plug Gel	Soda Ash	29	63	2-7-00	D.C.
R-636	7	Bags Plug Gel	Soda Ash	27	72	2-7-00	D.C.
R-637	9	Bags Plug Gel	Soda Ash	27	61	2-7-00	D.C.
R-638	8	Bags Plug Gel	Soda Ash	27	63	2-7-00	D.C.

CROW BUTTE RESOURCES, INC.
PLUGGING PROCEDURE

HOLE NUMBER	METHOD AND MATERIALS USED			TD VIS	FINAL VIS	DATE	INSPECTED BY:
R-639	7	Bags Plug Gel	Soda Ash	27	60	2-8-00	D.C.
R-640	6	Bags Plug Gel	Soda Ash	28	65	2-8-00	D.C.
R-641	7	Bags Plug Gel	Soda Ash	27	100+	2-9-00	D.C.
R-642	6	Bags Plug Gel	Soda Ash	28	61	2-9-00	
R-643	7	Bags Plug Gel	Soda Ash	28	74	2-10-00	D.C.
R-644	8	Bags Plug Gel	Soda Ash	27	66	2-8-00	D.C.
R-645	7	Bags Plug Gel	Soda Ash	28	68	2-8-00	D.C.
R-646	5	Bags Plug Gel	Soda Ash	27	65	2-10-00	
R-647	8	Bags Plug Gel	Soda Ash	27	100+	2-11-00	D.C.
R-648	6	Bags Plug Gel	Soda Ash	28	63	2-11-00	
R-649	7	Bags Plug Gel	Soda Ash	28	62	2-11-00	D.C.
R-650	8	Bags Plug Gel	Soda Ash	28	63	2-10-00	D.C.
R-651		Bags Plug Gel	Soda Ash				
R-652		Bags Plug Gel	Soda Ash				
R-653	10	Bags Plug Gel	Soda Ash	27	69	2-16-00	D.C.
R-654	9	Bags Plug Gel	Soda Ash	27	67	2-15-00	D.C.
R-655	9	Bags Plug Gel	Soda Ash	27	61	2-15-00	
R-656	8	Bags Plug Gel	Soda Ash	28	65	2-14-00	D.C.
R-657	6	Bags Plug Gel	Soda Ash	28	75	2-15-00	D.C.
R-658	7	Bags Plug Gel	Soda Ash	27	74	2-14-00	
R-659	8	Bags Plug Gel	Soda Ash	28	61	2-14-00	D.C.
R-660	10	Bags Plug Gel	Soda Ash	27	65	2-14-00	D.C.
R-661	9	Bags Plug Gel	Soda Ash	27	60	2-23-00	
R-662	6	Bags Plug Gel	Soda Ash	28	65	2-17-00	
R-663	7	Bags Plug Gel	Soda Ash	29	80	2-17-00	
R-664	9	Bags Plug Gel	Soda Ash	29	100+	2-17-00	
R-665	5	Bags Plug Gel	Soda Ash	29	70	2-16-00	
R-666	9	Bags Plug Gel	Soda Ash	27	62	2-23-00	
R-667	7	Bags Plug Gel	Soda Ash	28	61	2-23-00	
R-668	9	Bags Plug Gel	Soda Ash	28	70	2-22-00	
R-669	7	Bags Plug Gel	Soda Ash	27	100+	2-22-00	D.C.

CROW BUTTE RESOURCES, INC.
PLUGGING PROCEDURE

HOLE NUMBER	METHOD AND MATERIALS USED			TD VIS	FINAL VIS	DATE	INSPECTED BY:
R-670	6	Bags Plug Gel	Soda Ash	27	66	2-18-00	D.C.
R-671	14	Bags Plug Gel	Soda Ash	29	65	2-28-00	D.C.
R-672	8	Bags Plug Gel	Soda Ash	27	60	2-25-00	
R-673	10	Bags Plug Gel	Soda Ash	29	61	2-28-00	D.C.
R-674	8	Bags Plug Gel	Soda Ash	28	61	2-25-00	D.C.
R-675	9	Bags Plug Gel	Soda Ash	27	70	2-25-00	D.C.
R-676	6	Bags Plug Gel	Soda Ash	28	67	2-24-00	
R-677	11	Bags Plug Gel	Soda Ash	28	61	2-29-00	D.C.
R-678	7	Bags Plug Gel	Soda Ash	28	71	2-29-00	D.C.
R-679	8	Bags Plug Gel	Soda Ash	27	60	3-1-00	D.C.
R-680	6	Bags Plug Gel	Soda Ash	27	63	2-29-00	
R-681	9	Bags Plug Gel	Soda Ash	27	62	3-1-00	D.C.
R-682	7	Bags Plug Gel	Soda Ash	27	60	2-24-00	D.C.
R-683	7	Bags Plug Gel	Soda Ash	27	61	2-24-00	D.C.
R-684	7	Bags Plug Gel	Soda Ash	27	62	3-1-00	
R-685	10	Bags Plug Gel	Soda Ash	28	65	3-2-00	D.C.
R-686	6	Bags Plug Gel	Soda Ash	27	73	3-2-00	D.C.
R-687	7	Bags Plug Gel	Soda Ash	28	62	3-2-00	
R-688	10	Bags Plug Gel	Soda Ash	27	71	3-3-00	D.C.
R-689		Bags Plug Gel	Soda Ash				
R-690		Bags Plug Gel	Soda Ash				
R-691	13	Bags Plug Gel	Soda Ash	27	64	3-7-00	D.C.
R-692	13	Bags Plug Gel	Soda Ash	27	65	3-7-00	
R-693	13	Bags Plug Gel	Soda Ash	27	67	3-6-00	D.C.
R-694	11	Bags Plug Gel	Soda Ash	28	67	3-7-00	D.C.
R-695	13	Bags Plug Gel	Soda Ash	28	60	3-6-00	D.C.
R-696	11	Bags Plug Gel	Soda Ash	28	60	3-9-00	D.C.
R-697	10	Bags Plug Gel	Soda Ash	28	100+	3-9-00	D.C.
R-698	7	Bags Plug Gel	Soda Ash	27	60	3-6-00	D.C.
R-699	9	Bags Plug Gel	Soda Ash	28	65	3-3-00	
R-700	7	Bags Plug Gel	Soda Ash	27	65	3-3-00	D.C

CROW BUTTE RESOURCES, INC.
PLUGGING PROCEDURE

HOLE NUMBER	METHOD AND MATERIALS USED		TD VIS	FINAL VIS	DATE	INSPECTED BY:
R-701	10 Bags Plug Gel	Soda Ash	28	70	3-10-00	D.C.
R-702	9 Bags Plug Gel	Soda Ash	28	64	3-9-00	
R-703	8 Bags Plug Gel	Soda Ash	28	62	3-10-00	D.C.
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				
	Bags Plug Gel	Soda Ash				

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

Month: April - June Year: 2000

Total volume or water level for reporting period: 543,041,495 gallons injected *
* from individual well injection meters – excluding restoration injection

Quality of Injected Fluid (discuss any significant change in the constituents or concentrations of the injected fluid):

	Chloride (ppm)	Sulfate (ppm)	Sodium (ppm)	Alkalinity** (as ppm $CaCO_3$)	pH (SU)
Minimum	546	882	1203	1125	7.5
Maximum	623	1098	1383	1457	8.3

** Alkalinity = Total Carbonate / 1.2

Volume of injected fluid:

Month	Average Daily Injection Commercial (gpm)	Average Daily Injection Restoration (gpm)
April	4037	287
May	4340	293
June	4068	372

1. Have any operational problems occurred over the reporting period? Yes
2. Has any well maintenance (repairs, workovers, etc.) been performed during the period? yes
3. Has any significant change occurred in any of the monitored parameters that might indicate a leak or other failure of any well? no

If the answer to any of the above is yes, describe below.

Question 1:

Mine Unit 6 shallow monitor well SM6-18 was placed on excursion status in March. The excursion was due to exceeding the single UCL for chloride. CBR believes that the excursion is due to natural fluctuation of the chloride level in the shallow aquifer and not due to mining solutions. All other parameters for SM6-18 remain at normal levels. CBR is continuing to sample

SM6-18 on a weekly basis. The 90-day NDEQ report for the 6-18 excursion was submitted during the period.

SM6-13 was placed on excursion status during the period due to exceedance of a low chloride UCL. All other parameters for SM6-13 have remained stable, indicating a natural variation similar to SM6-18. SM6-13 chloride levels are currently showing a decreasing trend.

SM6-28 was placed on excursion status during the period due to exceedance of a low chloride and sulfate UCL. All other parameters for SM6-28 have remained stable. In addition, SM6-28 is not in an active mining area, indicating a natural variation similar to SM6-13 and SM6-18. SM6-28 was subsequently removed from excursion status after three consecutive samples were below the UCLs. (The well was above the UCLs for sulfate and chloride for one week).

Monitor well IJ-13 was placed on excursion status on April 22. All five excursion parameters in IJ-13 exceeded the UCLs after the recalculation of Mine Unit 1 monitor well UCLs after approval of restoration. The monitored parameters are currently showing a decreasing trend. CBR projects that this well will be removed from excursion status soon.

Monitor well SM7-23 was placed on excursion status due to elevated sulfate levels. It appears that drilling in the immediate area may be the cause. There are no active mining activities in this part of Mine Unit 7.

A pond leak was detected in the northwest underdrain for Pond 4. The pond level was lowered and an apparent source of the leak was identified at a patch with a poor weld. Repairs were made to the patch on the liner in June. Following completion of repairs, water was transferred from Pond 1 to increase the level in Pond 4. The increasing level indicated the potential of another leak at the northeast corner of Pond 4. Efforts are underway to determine the location of this leak.

A pond leak was detected in the southwest underdrain for Pond 1. The pond level has been lowered. Efforts are underway to determine the location of the leak. Visual inspection of the liner has been unable to locate the leak. There is currently no recharge in the underdrain, indicating a small leak that is above the water level in the pond.

Question 2:

Rig Workovers: P-1832
Mining wells with casing repaired: None

I CERTIFY UNDER THE PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS APPLICATION AND ALL THE ATTACHMENTS AND THAT, I BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. FURTHER, I CERTIFY AWARENESS THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF A FINE AND IMPRISONMENT.

Signature/Date

Charles R. Miller, Plant Manager
Name/Title (printed)

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT
Second Quarter 2000 - Page 1

Submitted by:
Crow Butte Resources,Inc.
P.O. Box 169
Crawford, NE 69339

Submitted To:
NDEQ - P/C
P.O. Box 98922
Lincoln, NE 68509

Permit No. NE0122611

Report Date:07-06-2000

Well Number	SM7-1			SM7-2			SM7-3		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	50.9	51.4	51.8	52.5	53.0	53.3	51.6	52.2	52.5
Barometric Pressure, in.	29.8	30.0	30.2	29.8	30.0	30.2	29.8	30.0	30.2
Sodium, ppm	106.0	107.1	109.0	87.0	88.9	91.0	92.0	93.7	96.0
Sulfate, ppm	44.0	44.9	46.0	30.0	30.9	32.0	37.0	37.3	38.0
Chloride, ppm	6.2	6.4	6.6	3.9	4.2	4.7	5.0	5.1	5.4
Conductivity, umhos	500	509	510	420	421	430	440	447	450
Total Alkalinity, ppm	178.0	186.4	194.0	170.0	171.4	175.0	168.0	174.7	184.0

Well Number	SM7-4			SM7-5			SM7-6		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	73.7	74.3	74.6	57.5	58.0	58.3	77.7	78.3	78.8
Barometric Pressure, in.	29.8	30.0	30.2	29.7	29.9	30.1	29.7	29.9	30.1
Sodium, ppm	87.0	88.3	90.0	86.0	86.9	89.0	49.0	50.1	51.0
Sulfate, ppm	29.0	29.4	30.0	34.0	35.0	37.0	17.0	17.6	19.0
Chloride, ppm	5.0	5.5	6.2	2.7	3.8	4.7	2.7	2.8	3.1
Conductivity, umhos	420	423	430	430	431	440	360	360	360
Total Alkalinity, ppm	160.0	165.4	170.0	160.0	167.6	175.0	150.0	154.3	160.0

Well Number	SM7-7			SM7-8			SM7-9		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	70.6	71.2	71.8	46.4	47.0	47.4	45.6	46.1	46.4
Barometric Pressure, in.	29.7	29.9	30.1	29.6	29.8	30.2	29.6	29.8	30.2
Sodium, ppm	92.0	92.9	94.0	98.0	99.4	102.0	88.0	89.4	91.0
Sulfate, ppm	37.0	37.6	38.0	56.0	57.7	59.0	32.0	33.4	34.0
Chloride, ppm	4.0	5.4	6.9	3.9	4.3	4.7	4.2	4.4	4.7
Conductivity, umhos	440	449	450	490	496	500	430	433	440
Total Alkalinity, ppm	170.0	172.1	175.0	170.0	173.6	180.0	170.0	172.9	180.0

Well Number	SM7-10			SM7-11			SM7-12		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	54.5	54.8	55.2	77.5	78.3	78.8	49.9	50.4	50.8
Barometric Pressure, in.	29.6	29.8	30.2	3.1	26.0	30.2	29.6	29.9	30.2
Sodium, ppm	87.0	89.4	91.0	54.0	55.6	57.0	83.0	86.9	90.0
Sulfate, ppm	38.0	38.7	40.0	18.0	18.7	19.0	40.0	42.3	44.0
Chloride, ppm	2.3	2.8	3.3	1.9	2.1	2.4	2.7	3.2	3.8
Conductivity, umhos	440	440	440	340	340	340	440	440	440
Total Alkalinity, ppm	160.0	168.6	175.0	140.0	147.9	150.0	160.0	166.4	170.0

Well Number	SM7-13			SM7-14			SM7-15		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	53.0	53.9	54.4	82.7	83.6	84.5	101.3	102.0	102.4
Barometric Pressure, in.	29.6	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	73.0	74.7	77.0	55.0	55.8	57.0	49.0	49.7	50.0
Sulfate, ppm	25.0	26.9	29.0	15.0	15.5	16.0	18.0	18.5	19.0
Chloride, ppm	2.5	3.1	3.5	3.3	3.6	4.2	1.5	1.8	2.2
Conductivity, umhos	380	384	390	330	330	330	340	340	340
Total Alkalinity, ppm	150.0	153.6	160.0	140.0	141.7	145.0	140.0	141.7	150.0

Well Number	SM7-16			SM7-17			SM7-18		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	129.8	130.6	131.1	102.2	102.7	103.0	123.4	123.9	124.3
Barometric Pressure, in.	29.7	29.9	30.2	29.7	30.0	30.3	29.7	30.0	30.3
Sodium, ppm	47.0	48.2	49.0	61.0	62.0	63.0	57.0	58.5	60.0
Sulfate, ppm	20.0	20.5	21.0	17.0	17.5	18.0	19.0	19.8	21.0
Chloride, ppm	1.4	1.6	1.9	2.9	3.4	3.5	1.4	2.1	2.5
Conductivity, umhos	330	337	340	380	380	380	340	340	340
Total Alkalinity, ppm	140.0	143.8	148.0	160.0	165.5	170.0	140.0	143.8	150.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT
Second Quarter 2000 - Page 2

Well Number	SM7-19			SM7-20			SM7-21		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	99.8	100.3	100.7	110.5	110.9	111.3	122.0	122.7	123.0
Barometric Pressure, in.	29.7	30.0	30.3	29.6	29.8	30.0	29.6	29.8	30.0
Sodium, ppm	66.0	68.8	70.0	67.0	70.0	72.0	65.0	67.5	70.0
Sulfate, ppm	23.0	24.0	27.0	20.0	20.0	20.0	20.0	21.8	23.0
Chloride, ppm	2.3	2.7	3.1	1.9	2.2	2.5	2.7	2.9	3.1
Conductivity, umhos	350	360	370	350	352	360	350	350	350
Total Alkalinity, ppm	145.0	151.7	155.0	148.0	151.0	158.0	140.0	145.0	150.0

Well Number	SM7-22			SM7-23			SM7-24		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	91.2	91.5	91.9	102.5	107.8	117.3	105.9	106.6	107.2
Barometric Pressure, in.	29.6	29.8	30.0	29.6	29.8	30.1	29.7	29.8	30.1
Sodium, ppm	65.0	67.7	70.0	108.0	118.1	122.0	118.0	119.2	122.0
Sulfate, ppm	20.0	20.3	21.0	59.0	79.5	83.0	70.0	71.8	73.0
Chloride, ppm	5.0	5.7	6.9	6.6	8.1	15.0	11.0	11.7	12.0
Conductivity, umhos	350	357	360	540	580	590	570	578	580
Total Alkalinity, ppm	140.0	143.3	150.0	175.0	182.7	192.0	175.0	184.2	190.0

Well Number	SM7-25			SM6-1			SM6-2		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	100.3	101.0	102.8	49.8	50.3	50.8	41.2	41.7	42.2
Barometric Pressure, in.	29.7	29.8	30.1	29.7	29.9	30.1	29.7	29.9	30.1
Sodium, ppm	74.0	75.7	77.0	119.0	121.4	123.0	122.0	123.6	126.0
Sulfate, ppm	18.0	19.3	20.0	50.0	51.0	53.0	49.0	50.0	52.0
Chloride, ppm	3.5	3.9	4.3	8.1	8.6	9.0	13.0	13.6	14.0
Conductivity, umhos	360	365	370	550	559	560	570	570	570
Total Alkalinity, ppm	155.0	160.8	165.0	200.0	207.1	215.0	200.0	209.3	215.0

Well Number	SM6-3			SM6-4			SM6-5		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	33.2	33.7	34.3	46.3	46.7	47.3	40.3	40.7	41.2
Barometric Pressure, in.	29.6	29.9	30.2	29.6	29.9	30.2	29.6	29.9	30.2
Sodium, ppm	119.0	120.3	122.0	114.0	116.9	119.0	112.0	115.1	117.0
Sulfate, ppm	50.0	51.6	53.0	43.0	44.3	45.0	37.0	38.9	40.0
Chloride, ppm	12.0	12.7	14.0	7.7	8.1	8.7	6.6	7.1	7.7
Conductivity, umhos	550	559	560	530	539	540	520	526	530
Total Alkalinity, ppm	200.0	205.4	210.0	200.0	208.3	215.0	200.0	210.7	220.0

Well Number	SM6-6			SM6-7			SM6-8		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	51.3	51.7	52.2	35.1	35.6	36.1	25.2	25.7	26.2
Barometric Pressure, in.	29.6	29.9	30.2	29.6	29.9	30.2	29.6	29.9	30.2
Sodium, ppm	106.0	107.7	110.0	113.0	115.1	118.0	63.0	65.4	68.0
Sulfate, ppm	16.0	17.6	19.0	13.0	14.3	15.0	23.0	24.1	25.0
Chloride, ppm	3.1	3.6	3.9	6.2	6.6	7.2	6.2	6.5	6.9
Conductivity, umhos	480	484	490	510	510	510	490	490	490
Total Alkalinity, ppm	220.0	225.7	230.0	230.0	236.9	240.0	210.0	210.7	215.0

Well Number	SM6-9			SM6-10			SM6-11		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	16.7	17.1	17.6	12.7	13.2	13.6	8.4	9.0	9.4
Barometric Pressure, in.	29.6	29.8	30.0	29.6	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	69.0	71.0	73.0	117.0	120.0	122.0	17.0	18.7	20.0
Sulfate, ppm	12.0	12.7	13.0	45.0	46.7	48.0	14.0	14.2	15.0
Chloride, ppm	5.8	6.0	6.2	8.1	8.6	9.1	5.6	6.1	6.6
Conductivity, umhos	510	510	510	550	551	560	480	487	490
Total Alkalinity, ppm	230.0	236.7	240.0	205.0	215.0	220.0	210.0	214.2	220.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT

Second Quarter 2000 - Page 3

Well Number	SM6-12			SM6-13			SM6-14		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	11.7	12.7	13.2	9.8	10.7	13.6	24.7	25.4	26.0
Barometric Pressure, in.	29.6	29.9	30.2	29.6	29.8	30.1	29.7	30.0	30.3
Sodium, ppm	22.0	23.4	24.0	23.0	25.8	28.0	119.0	120.8	124.0
Sulfate, ppm	10.0	11.7	13.0	19.0	23.6	27.0	52.0	53.5	56.0
Chloride, ppm	4.0	4.4	5.0	6.0	7.2	8.1	13.0	13.0	13.0
Conductivity, umhos	510	510	510	550	558	570	560	567	570
Total Alkalinity, ppm	230.0	237.1	240.0	240.0	249.5	255.0	200.0	207.5	210.0

Well Number	SM6-15			SM6-16			SM6-17		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	29.6	30.1	30.6	36.6	37.2	37.6	16.4	16.8	17.3
Barometric Pressure, in.	29.6	29.8	30.2	29.6	29.8	30.2	29.6	29.9	30.2
Sodium, ppm	117.0	119.9	121.0	52.0	53.1	54.0	37.0	37.9	40.0
Sulfate, ppm	48.0	49.6	51.0	6.9	8.0	9.3	5.1	6.2	7.4
Chloride, ppm	13.0	13.4	14.0	3.5	3.9	4.2	3.9	4.3	4.7
Conductivity, umhos	560	560	560	450	450	450	480	489	490
Total Alkalinity, ppm	200.0	202.9	210.0	205.0	212.6	220.0	228.0	236.6	240.0

Well Number	SM6-18			SM6-19			SM6-20		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	20.5	21.2	22.1	34.0	34.4	35.0	17.5	18.0	18.5
Barometric Pressure, in.	29.7	29.9	30.2	29.8	30.0	30.2	29.7	29.9	30.1
Sodium, ppm	121.0	123.1	126.0	51.0	52.0	54.0	16.0	17.6	19.0
Sulfate, ppm	51.0	51.5	53.0	21.0	22.1	23.0	14.0	16.1	17.0
Chloride, ppm	20.0	21.8	23.0	5.4	5.9	6.2	6.9	8.0	9.6
Conductivity, umhos	580	583	590	480	480	480	500	517	540
Total Alkalinity, ppm	195.0	201.2	205.0	200.0	206.6	213.0	205.0	214.7	220.0

Well Number	SM6-21			SM6-22			SM6-23		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	1.4	2.1	2.6	0.2	0.5	1.1	0.5	1.2	1.9
Barometric Pressure, in.	29.7	29.8	30.1	29.7	29.8	30.1	29.7	29.8	30.1
Sodium, ppm	21.0	22.5	23.0	20.0	21.5	23.0	26.0	27.8	29.0
Sulfate, ppm	14.0	15.3	17.0	12.0	13.2	15.0	14.0	15.3	17.0
Chloride, ppm	6.5	7.1	7.7	4.0	4.4	4.6	4.6	5.1	5.4
Conductivity, umhos	490	497	510	460	465	470	510	515	520
Total Alkalinity, ppm	200.0	213.3	220.0	205.0	210.0	215.0	225.0	234.2	240.0

Well Number	SM6-24			SM6-25			SM6-26		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	4.3	6.4	7.7	3.2	3.8	4.6	0.6	1.3	2.0
Barometric Pressure, in.	29.7	29.8	30.1	29.7	29.8	30.1	29.7	29.8	30.1
Sodium, ppm	24.0	25.5	26.0	24.0	25.5	26.0	26.0	27.7	28.0
Sulfate, ppm	13.0	14.7	17.0	13.0	14.3	16.0	11.0	12.0	13.0
Chloride, ppm	4.7	5.4	6.2	5.8	6.2	6.6	5.0	5.3	5.4
Conductivity, umhos	470	473	480	480	480	480	460	460	460
Total Alkalinity, ppm	210.0	215.5	220.0	210.0	211.7	215.0	200.0	204.2	215.0

Well Number	SM6-27			SM6-28			SM5-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	0.0	0.4	0.7	7.4	8.7	9.8	22.6	23.4	23.9
Barometric Pressure, in.	29.7	29.8	30.1	29.6	29.8	30.1	29.7	30.0	30.3
Sodium, ppm	26.0	27.2	28.0	28.0	31.5	35.0	120.0	132.3	137.0
Sulfate, ppm	12.0	13.0	14.0	20.0	30.7	46.0	51.0	53.7	56.0
Chloride, ppm	4.6	4.9	5.4	4.7	6.2	7.7	12.0	13.0	14.0
Conductivity, umhos	470	470	470	510	546	590	590	617	630
Total Alkalinity, ppm	200.0	211.7	220.0	233.0	239.1	245.0	230.0	235.5	240.0

NEBRASKA DEPARTMENT OF ENVIRONMENTAL QUALITY
MINING MONITORING REPORT
Second Quarter 2000 - Page 4

Well Number	SM5-2			SM5-3			SM5-4		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	32.3	33.0	33.6	48.0	48.6	49.1	37.0	37.5	37.9
Barometric Pressure, in.	29.7	30.0	30.3	29.7	30.0	30.3	29.7	30.0	30.3
Sodium, ppm	97.0	99.5	102.0	129.0	131.5	134.0	117.0	121.0	124.0
Sulfate, ppm	31.0	31.2	32.0	49.0	50.2	52.0	47.0	47.2	48.0
Chloride, ppm	5.8	8.0	12.0	15.0	15.5	16.0	16.0	16.7	17.0
Conductivity, umhos	460	467	480	600	605	610	560	565	570
Total Alkalinity, ppm	190.0	196.7	200.0	225.0	228.3	230.0	200.0	207.5	215.0

Well Number	SM5-5			SM5-6			SM5-7		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	50.9	51.5	51.9	53.7	54.2	54.6	40.1	40.6	41.0
Barometric Pressure, in.	29.7	30.0	30.3	29.7	30.0	30.3	29.6	29.8	30.0
Sodium, ppm	133.0	135.3	137.0	125.0	126.8	128.0	99.0	124.0	131.0
Sulfate, ppm	53.0	54.2	55.0	55.0	56.0	57.0	48.0	55.3	57.0
Chloride, ppm	13.0	14.0	15.0	14.0	14.7	16.0	10.0	10.7	11.0
Conductivity, umhos	620	620	620	590	590	590	530	578	590
Total Alkalinity, ppm	230.0	236.3	240.0	200.0	212.5	220.0	210.0	218.8	225.0

Well Number	SM5-8			SM5-9			SM5-10		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	41.8	42.3	42.7	39.0	39.6	40.0	28.7	29.3	29.7
Barometric Pressure, in.	29.6	29.8	30.0	29.6	29.8	30.0	29.6	29.8	30.0
Sodium, ppm	120.0	123.5	126.0	119.0	121.8	124.0	120.0	122.5	125.0
Sulfate, ppm	52.0	52.7	53.0	51.0	51.7	52.0	53.0	53.8	55.0
Chloride, ppm	11.0	11.8	12.0	11.0	11.7	12.0	10.0	10.0	10.0
Conductivity, umhos	560	567	570	560	562	570	560	562	570
Total Alkalinity, ppm	205.0	210.2	218.0	205.0	209.2	215.0	200.0	206.7	210.0

Well Number	SM5-11			SM5-12			SM5-13		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	27.9	28.4	28.9	60.0	60.6	61.0	47.0	47.5	48.3
Barometric Pressure, in.	29.6	29.8	30.0	29.6	29.8	30.0	29.7	29.9	30.1
Sodium, ppm	130.0	132.0	134.0	120.0	123.5	126.0	117.0	118.7	120.0
Sulfate, ppm	52.0	54.0	55.0	53.0	54.3	55.0	50.0	53.0	55.0
Chloride, ppm	15.0	15.0	15.0	10.0	10.7	11.0	13.0	13.7	14.0
Conductivity, umhos	600	603	610	570	570	570	550	559	560
Total Alkalinity, ppm	210.0	218.0	223.0	203.0	208.8	215.0	200.0	201.9	210.0

Well Number	SM5-14			SM5-15			SM5-16		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	21.8	22.6	23.5	30.3	31.0	31.4	4.0	4.7	5.2
Barometric Pressure, in.	29.7	29.9	30.1	29.7	29.9	30.1	29.7	29.9	30.1
Sodium, ppm	101.0	104.4	106.0	113.0	120.7	124.0	97.0	99.0	100.0
Sulfate, ppm	44.0	46.4	48.0	46.0	48.3	50.0	35.0	35.7	37.0
Chloride, ppm	6.9	9.9	12.0	14.0	14.9	16.0	5.4	5.9	6.2
Conductivity, umhos	490	494	500	540	566	570	460	460	460
Total Alkalinity, ppm	175.0	176.9	180.0	200.0	208.0	218.0	175.0	185.7	190.0

Well Number	SM5-17			SM5-18			SM5-19		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	60.7	61.3	61.9	77.2	77.7	78.3	49.1	49.8	50.1
Barometric Pressure, in.	29.7	29.9	30.1	29.7	29.9	30.1	29.8	30.0	30.2
Sodium, ppm	87.0	88.7	91.0	90.0	92.1	94.0	100.0	103.1	106.0
Sulfate, ppm	34.0	34.6	35.0	35.0	36.9	38.0	46.0	46.7	47.0
Chloride, ppm	1.9	2.2	2.3	2.7	2.9	3.1	3.9	4.1	4.3
Conductivity, umhos	420	420	420	440	440	440	490	490	490
Total Alkalinity, ppm	160.0	168.6	175.0	170.0	175.9	180.0	180.0	190.0	200.0

Well Number	SM5-20			SM5-21			SM5-22		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	44.3	45.0	45.5	32.3	33.1	33.7	18.9	19.9	20.7
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	103.0	104.3	106.0	100.0	101.2	102.0	100.0	100.7	101.0
Sulfate, ppm	50.0	52.0	54.0	42.0	42.5	43.0	42.0	43.2	44.0
Chloride, ppm	5.4	5.7	6.2	5.8	6.0	6.2	3.6	4.1	4.3
Conductivity, umhos	490	498	510	470	475	480	470	470	470
Total Alkalinity, ppm	180.0	181.8	185.0	170.0	180.2	190.0	170.0	178.3	185.0

Well Number	SM5-23			SM5-24			SM5-25		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	28.4	29.6	31.1	21.7	22.3	22.8	40.9	41.5	42.0
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	99.0	99.8	100.0	92.0	93.2	95.0	98.0	98.3	99.0
Sulfate, ppm	41.0	42.3	44.0	37.0	38.3	40.0	45.0	46.2	48.0
Chloride, ppm	3.5	3.7	3.9	5.2	5.6	6.2	6.5	6.8	7.2
Conductivity, umhos	460	468	470	450	450	450	470	472	480
Total Alkalinity, ppm	175.0	182.5	190.0	165.0	172.7	178.0	165.0	171.0	175.0

Well Number	SM4-1			SM4-2			SM4-3		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	72.5	73.1	73.5	73.7	78.1	85.7	81.1	81.7	82.0
Barometric Pressure, in.	29.6	29.8	30.0	23.9	28.9	30.2	29.7	29.9	30.2
Sodium, ppm	76.0	77.7	79.0	135.0	137.0	139.0	125.0	126.3	128.0
Sulfate, ppm	23.0	23.7	24.0	96.0	98.0	99.0	91.0	94.3	98.0
Chloride, ppm	3.5	3.9	4.3	14.0	15.2	16.0	13.0	13.0	13.0
Conductivity, umhos	370	375	380	650	662	680	620	620	620
Total Alkalinity, ppm	145.0	150.8	155.0	175.0	192.5	200.0	170.0	175.0	180.0

Well Number	SM4-4			SM4-5A			SM4-6		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	20.2	20.7	21.2	40.8	42.0	44.2	28.2	28.9	29.5
Barometric Pressure, in.	29.7	30.0	30.3	29.6	29.8	30.0	29.7	30.0	30.3
Sodium, ppm	130.0	132.5	134.0	117.0	119.2	121.0	146.0	148.0	150.0
Sulfate, ppm	76.0	77.5	79.0	50.0	51.3	53.0	47.0	48.2	52.0
Chloride, ppm	14.0	14.5	15.0	14.0	14.2	15.0	14.0	14.8	15.0
Conductivity, umhos	630	630	630	560	560	560	660	660	660
Total Alkalinity, ppm	200.0	204.2	210.0	195.0	199.2	205.0	260.0	265.0	270.0

Well Number	SM4-7			SM4-8			SM4-9		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	36.1	36.9	37.3	33.8	34.6	35.3	34.8	35.2	35.5
Barometric Pressure, in.	29.8	30.0	30.2	29.6	29.8	30.2	29.8	30.0	30.2
Sodium, ppm	116.0	118.9	122.0	158.0	160.0	162.0	150.0	154.4	157.0
Sulfate, ppm	49.0	50.4	51.0	49.0	49.6	51.0	45.0	48.7	50.0
Chloride, ppm	22.0	23.3	24.0	12.0	12.3	13.0	12.0	12.9	14.0
Conductivity, umhos	560	564	570	700	709	710	670	690	700
Total Alkalinity, ppm	185.0	189.6	195.0	285.0	294.9	303.0	275.0	286.9	295.0

Well Number	SM4-10A			SM4-11A			SM3-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	31.2	31.9	32.3	24.3	34.4	38.7	58.1	58.7	59.5
Barometric Pressure, in.	29.7	29.9	30.1	29.8	30.0	30.2	29.6	29.8	30.2
Sodium, ppm	162.0	163.4	164.0	160.0	161.4	164.0	142.0	143.7	146.0
Sulfate, ppm	51.0	52.4	53.0	52.0	52.7	54.0	92.0	96.6	101.0
Chloride, ppm	11.0	11.9	12.0	12.0	12.0	12.0	14.0	14.0	14.0
Conductivity, umhos	720	729	730	720	720	720	680	684	690
Total Alkalinity, ppm	295.0	302.1	305.0	295.0	298.6	305.0	200.0	207.1	215.0

Well Number	SM3-2			SM3-3			SM2-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	79.1	79.7	80.0	45.0	45.5	46.0	35.4	36.2	36.7
Barometric Pressure, in.	29.6	29.8	30.2	29.6	29.8	30.2	29.8	30.0	30.2
Sodium, ppm	94.0	96.9	98.0	97.0	98.4	100.0	116.0	117.1	119.0
Sulfate, ppm	37.0	38.7	39.0	39.0	39.7	41.0	46.0	46.6	47.0
Chloride, ppm	2.9	3.4	3.9	5.0	5.5	5.8	16.0	16.9	17.0
Conductivity, umhos	450	456	460	460	461	470	550	550	550
Total Alkalinity, ppm	175.0	180.7	190.0	180.0	180.7	185.0	190.0	196.6	200.0

Well Number	SM2-2			SM2-3			SM1-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	11.7	12.5	12.9	31.5	32.3	32.7	21.4	22.1	22.8
Barometric Pressure, in.	29.8	30.0	30.2	29.8	30.0	30.2	29.6	29.8	30.2
Sodium, ppm	96.0	98.0	101.0	118.0	119.3	122.0	98.0	100.3	102.0
Sulfate, ppm	43.0	43.6	44.0	51.0	51.9	53.0	32.0	32.9	34.0
Chloride, ppm	9.1	9.3	9.6	11.0	11.9	12.0	5.8	6.2	6.6
Conductivity, umhos	470	473	480	550	553	560	460	467	470
Total Alkalinity, ppm	165.0	175.7	180.0	190.0	202.3	210.0	175.0	185.0	190.0

Well Number	SM1-2			SM1-3			PR-8		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	13.3	14.1	14.6	45.1	45.7	46.2	141.3	147.0	151.5
Barometric Pressure, in.	29.6	29.8	29.9	29.6	29.8	30.2	29.6	29.9	30.2
Sodium, ppm	124.0	126.7	129.0	97.0	99.0	102.0	368.0	378.3	399.0
Sulfate, ppm	59.0	60.7	62.0	38.0	40.3	41.0	314.0	333.1	355.0
Chloride, ppm	13.0	13.3	14.0	6.6	7.2	7.7	128.0	135.9	147.0
Conductivity, umhos	580	589	590	470	470	470	1720	1791	1890
Total Alkalinity, ppm	200.0	201.9	205.0	170.0	179.0	185.0	325.0	335.7	360.0

Well Number	PR-15			IJ-13			CM7-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	128.7	137.0	141.8	169.1	175.1	179.9	203.5	206.8	211.3
Barometric Pressure, in.	29.6	29.9	30.2	29.6	29.9	30.2	29.8	30.0	30.2
Sodium, ppm	205.0	275.3	302.0	473.0	526.0	576.0	387.0	389.3	390.0
Sulfate, ppm	154.0	228.0	250.0	425.0	504.2	582.0	312.0	326.4	379.0
Chloride, ppm	73.0	105.0	112.0	179.0	209.0	240.0	161.0	177.6	183.0
Conductivity, umhos	1040	1386	1480	2260	2525	2790	1850	1864	1880
Total Alkalinity, ppm	233.0	289.0	305.0	400.0	436.8	470.0	300.0	306.1	314.0

Well Number	CM7-2			CM7-3			CM7-4		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	221.0	224.6	229.4	190.9	194.3	198.8	193.9	198.3	202.8
Barometric Pressure, in.	29.7	29.9	30.1	29.7	29.9	30.1	29.7	29.9	30.1
Sodium, ppm	376.0	379.0	390.0	389.0	395.0	404.0	383.0	385.4	389.0
Sulfate, ppm	297.0	302.7	310.0	313.0	318.6	324.0	310.0	316.6	321.0
Chloride, ppm	177.0	181.0	183.0	181.0	190.4	208.0	181.0	184.6	186.0
Conductivity, umhos	1790	1810	1820	1850	1886	1930	1840	1847	1860
Total Alkalinity, ppm	285.0	294.4	300.0	295.0	300.7	310.0	295.0	300.1	305.0

Well Number	CM7-5			CM7-6			CM7-7		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	199.4	204.3	208.6	188.1	193.0	197.4	195.2	198.7	204.7
Barometric Pressure, in.	29.7	29.9	30.1	29.7	29.9	30.1	29.6	29.9	30.2
Sodium, ppm	389.0	393.6	396.0	399.0	404.7	407.0	395.0	399.1	403.0
Sulfate, ppm	310.0	316.7	322.0	311.0	319.9	327.0	337.0	353.6	367.0
Chloride, ppm	188.0	194.3	201.0	197.0	202.6	211.0	183.0	184.6	186.0
Conductivity, umhos	1870	1884	1900	1900	1917	1940	1880	1930	1980
Total Alkalinity, ppm	298.0	301.1	305.0	300.0	302.9	310.0	295.0	301.6	308.0

Well Number	CM7-8			CM7-9			CM7-10		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	200.6	204.0	208.6	253.3	256.5	260.8	244.5	247.5	251.8
Barometric Pressure, in.	29.6	29.9	30.2	29.6	29.9	30.2	29.6	29.9	30.2
Sodium, ppm	389.0	395.1	399.0	393.0	398.1	408.0	400.0	403.0	410.0
Sulfate, ppm	331.0	335.3	340.0	321.0	327.9	340.0	350.0	357.1	363.0
Chloride, ppm	181.0	183.9	185.0	186.0	187.3	189.0	185.0	185.6	187.0
Conductivity, umhos	1880	1883	1890	1880	1889	1900	1910	1939	1960
Total Alkalinity, ppm	295.0	297.9	300.0	295.0	300.0	305.0	290.0	296.9	300.0

Well Number	CM7-11			CM7-12			CM7-13		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	212.1	214.3	217.3	198.2	200.6	203.8	180.3	182.8	185.7
Barometric Pressure, in.	29.6	29.8	30.2	29.6	29.8	30.2	29.6	29.8	30.2
Sodium, ppm	398.0	399.9	402.0	399.0	402.0	405.0	402.0	406.7	415.0
Sulfate, ppm	350.0	357.3	363.0	350.0	359.4	367.0	358.0	364.7	374.0
Chloride, ppm	183.0	185.3	189.0	183.0	186.6	189.0	185.0	186.4	189.0
Conductivity, umhos	1920	1936	1950	1930	1939	1950	1950	1960	1970
Total Alkalinity, ppm	290.0	296.1	300.0	293.0	297.6	305.0	295.0	298.3	305.0

Well Number	CM7-14			CM7-15			CM7-16		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	167.6	170.2	174.0	177.9	181.5	186.8	185.6	190.6	195.9
Barometric Pressure, in.	29.6	29.8	30.2	29.6	29.8	30.2	29.6	29.8	30.2
Sodium, ppm	397.0	403.0	410.0	409.0	413.0	419.0	403.0	407.9	413.0
Sulfate, ppm	360.0	365.7	371.0	357.0	362.1	370.0	337.0	349.7	355.0
Chloride, ppm	181.0	184.0	187.0	183.0	186.0	189.0	183.0	185.1	188.0
Conductivity, umhos	1920	1936	1950	1950	1963	1980	1940	1944	1950
Total Alkalinity, ppm	290.0	292.9	300.0	295.0	300.9	305.0	295.0	300.0	305.0

Well Number	CM6-1			CM6-2			CM6-3		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	106.7	110.6	115.7	109.0	112.0	117.2	99.9	102.3	107.5
Barometric Pressure, in.	29.7	30.0	30.3	29.7	30.0	30.3	29.7	30.0	30.3
Sodium, ppm	396.0	401.7	406.0	399.0	403.0	408.0	400.0	402.8	405.0
Sulfate, ppm	361.0	367.2	376.0	365.0	377.5	383.0	354.0	356.3	359.0
Chloride, ppm	183.0	185.5	191.0	175.0	176.7	179.0	181.0	182.3	185.0
Conductivity, umhos	1910	1928	1950	1930	1935	1940	1920	1923	1930
Total Alkalinity, ppm	280.0	282.5	285.0	285.0	287.5	290.0	290.0	292.5	300.0

Well Number	CM6-4			CM6-5			CM6-6		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	123.5	127.0	130.2	107.5	113.3	119.9	100.7	105.3	110.8
Barometric Pressure, in.	29.7	29.9	30.1	29.6	29.9	30.2	29.6	29.9	30.2
Sodium, ppm	398.0	406.9	412.0	401.0	404.1	412.0	406.0	415.6	426.0
Sulfate, ppm	353.0	363.3	377.0	375.0	382.1	390.0	368.0	374.4	381.0
Chloride, ppm	175.0	180.4	185.0	173.0	178.7	183.0	181.0	184.4	189.0
Conductivity, umhos	1930	1934	1950	1930	1937	1950	1960	1977	2000
Total Alkalinity, ppm	295.0	298.0	303.0	285.0	289.3	295.0	300.0	303.6	315.0

Well Number	CM6-7			CM6-8			CM6-9		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	89.2	94.0	97.8	92.1	96.6	99.6	88.4	92.8	95.6
Barometric Pressure, in.	29.6	29.9	30.2	29.6	29.9	30.2	29.6	29.9	30.2
Sodium, ppm	400.0	407.7	415.0	403.0	406.4	412.0	411.0	427.9	440.0
Sulfate, ppm	371.0	382.3	392.0	364.0	371.7	382.0	362.0	381.4	392.0
Chloride, ppm	175.0	178.3	182.0	179.0	182.1	185.0	187.0	197.0	204.0
Conductivity, umhos	1930	1946	1950	1940	1954	1970	1980	2054	2110
Total Alkalinity, ppm	290.0	292.9	300.0	285.0	293.6	300.0	295.0	312.1	320.0

Well Number	CM6-10			CM6-11			CM6-12		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	75.0	78.9	80.6	55.8	59.5	61.5	103.4	107.0	110.2
Barometric Pressure, in.	29.6	29.9	30.2	29.6	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	405.0	412.3	416.0	400.0	408.1	411.0	407.0	410.7	412.0
Sulfate, ppm	373.0	383.1	394.0	344.0	353.3	364.0	350.0	357.2	367.0
Chloride, ppm	177.0	179.9	183.0	182.0	186.3	190.0	183.0	184.7	187.0
Conductivity, umhos	1950	1964	1980	1920	1933	1940	1940	1953	1970
Total Alkalinity, ppm	283.0	290.6	295.0	300.0	303.6	310.0	295.0	299.7	305.0

Well Number	CM6-13			CM6-14			CM6-15		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	111.1	114.5	117.6	102.3	106.5	109.8	102.9	107.6	111.4
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	408.0	411.0	415.0	402.0	405.5	409.0	400.0	403.0	405.0
Sulfate, ppm	339.0	355.3	364.0	359.0	363.0	365.0	351.0	364.8	372.0
Chloride, ppm	185.0	187.0	189.0	179.0	182.3	187.0	179.0	180.5	183.0
Conductivity, umhos	1940	1943	1950	1920	1930	1940	1920	1928	1940
Total Alkalinity, ppm	295.0	303.3	310.0	298.0	299.7	300.0	290.0	296.8	300.0

Well Number	CM6-16A			CM6-17			CM6-18		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	100.4	105.3	109.2	94.3	96.7	104.1	89.6	92.6	101.6
Barometric Pressure, in.	29.7	29.9	30.2	29.6	29.8	30.0	29.6	29.8	30.0
Sodium, ppm	403.0	405.8	410.0	401.0	402.2	404.0	398.0	404.8	414.0
Sulfate, ppm	357.0	363.3	373.0	343.0	350.3	360.0	338.0	350.8	356.0
Chloride, ppm	183.0	184.3	187.0	181.0	183.3	185.0	181.0	183.3	185.0
Conductivity, umhos	1930	1943	1950	1910	1928	1950	1920	1932	1940
Total Alkalinity, ppm	295.0	298.3	300.0	295.0	300.8	305.0	295.0	299.7	305.0

Well Number	CM6-19			CM6-20			CM6-21		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	75.6	79.1	87.4	45.6	49.0	51.9	39.3	43.8	47.3
Barometric Pressure, in.	29.6	29.8	30.0	29.6	29.9	30.2	29.6	29.9	30.2
Sodium, ppm	403.0	407.7	413.0	406.0	413.3	421.0	396.0	399.4	404.0
Sulfate, ppm	339.0	347.7	359.0	344.0	351.0	359.0	339.0	354.4	364.0
Chloride, ppm	179.0	182.3	185.0	189.0	196.1	203.0	175.0	181.0	187.0
Conductivity, umhos	1930	1937	1950	1940	1969	1990	1900	1913	1920
Total Alkalinity, ppm	300.0	301.7	310.0	295.0	303.6	310.0	295.0	297.9	300.0

Well Number	CM6-22			CM6-23			CM6-24		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	36.1	40.9	44.2	38.9	40.8	44.1	38.5	40.2	42.4
Barometric Pressure, in.	29.6	29.9	30.2	29.7	29.8	30.1	29.7	29.8	30.1
Sodium, ppm	396.0	400.6	404.0	401.0	405.5	412.0	401.0	402.8	405.0
Sulfate, ppm	343.0	348.6	361.0	330.0	335.0	339.0	322.0	328.5	334.0
Chloride, ppm	183.0	184.7	187.0	184.0	187.0	189.0	181.0	184.5	189.0
Conductivity, umhos	1900	1917	1930	1890	1913	1930	1890	1902	1910
Total Alkalinity, ppm	295.0	297.6	300.0	310.0	313.3	320.0	305.0	310.0	315.0

Well Number	CM6-25			CM6-26			CM6-27		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	66.0	69.5	75.5	60.9	65.3	72.1	42.2	43.6	45.9
Barometric Pressure, in.	29.7	29.8	30.1	29.7	29.8	30.1	29.7	29.8	30.1
Sodium, ppm	399.0	403.0	405.0	398.0	400.3	404.0	397.0	400.2	403.0
Sulfate, ppm	340.0	349.7	357.0	330.0	344.8	353.0	314.0	322.5	342.0
Chloride, ppm	181.0	183.3	185.0	179.0	182.0	185.0	183.0	186.7	189.0
Conductivity, umhos	1910	1927	1940	1900	1917	1930	1890	1900	1910
Total Alkalinity, ppm	300.0	304.7	310.0	303.0	306.8	310.0	300.0	307.5	315.0

Well Number	CM6-28			CM6-29			CM6-30		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	49.9	50.9	53.3	60.0	64.9	70.3	53.6	55.9	59.6
Barometric Pressure, in.	29.7	29.8	30.1	29.7	29.8	30.1	29.7	29.8	30.1
Sodium, ppm	395.0	397.0	401.0	399.0	403.0	409.0	391.0	398.5	402.0
Sulfate, ppm	310.0	316.0	320.0	339.0	342.2	347.0	315.0	320.5	336.0
Chloride, ppm	173.0	176.3	177.0	179.0	183.5	185.0	183.0	184.3	187.0
Conductivity, umhos	1850	1868	1900	1890	1912	1930	1880	1888	1900
Total Alkalinity, ppm	310.0	315.5	320.0	295.0	301.7	310.0	300.0	306.8	315.0

Well Number	CM6-31			CM6-32			CM5-1		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	54.7	56.8	59.8	58.8	61.9	66.4	155.9	159.2	162.9
Barometric Pressure, in.	29.7	29.8	30.1	29.7	29.8	30.1	29.8	30.0	30.2
Sodium, ppm	400.0	402.0	405.0	403.0	405.2	406.0	406.0	411.9	423.0
Sulfate, ppm	320.0	325.3	330.0	327.0	335.5	345.0	345.0	349.6	354.0
Chloride, ppm	177.0	179.0	181.0	177.0	181.2	183.0	181.0	183.7	186.0
Conductivity, umhos	1870	1888	1900	1900	1913	1920	1920	1930	1950
Total Alkalinity, ppm	310.0	313.8	320.0	305.0	309.2	315.0	305.0	310.3	320.0

Well Number	CM5-2			CM5-3			CM5-4		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	156.9	160.5	164.1	175.7	178.6	182.0	161.1	163.6	166.7
Barometric Pressure, in.	29.8	30.0	30.2	29.8	30.0	30.2	29.8	30.0	30.2
Sodium, ppm	402.0	405.7	411.0	390.0	396.7	402.0	391.0	401.1	406.0
Sulfate, ppm	333.0	342.1	354.0	320.0	331.0	342.0	310.0	323.3	332.0
Chloride, ppm	179.0	180.3	183.0	179.0	181.6	183.0	177.0	179.9	181.0
Conductivity, umhos	1900	1907	1920	1870	1881	1890	1820	1876	1890
Total Alkalinity, ppm	300.0	304.1	310.0	295.0	305.4	317.0	303.0	308.4	315.0

Well Number	CM5-5			CM5-6			CM5-7		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	146.4	148.5	150.9	145.6	147.1	148.3	142.7	144.1	145.8
Barometric Pressure, in.	29.8	30.0	30.2	29.7	30.0	30.3	29.7	30.0	30.3
Sodium, ppm	400.0	404.4	409.0	397.0	399.7	402.0	397.0	399.0	403.0
Sulfate, ppm	324.0	331.1	337.0	324.0	330.3	336.0	333.0	338.3	346.0
Chloride, ppm	179.0	181.4	183.0	177.0	180.7	183.0	175.0	179.7	182.0
Conductivity, umhos	1880	1893	1910	1870	1882	1890	1880	1892	1900
Total Alkalinity, ppm	305.0	310.9	315.0	295.0	304.2	310.0	295.0	300.8	305.0

Well Number	CM5-8			CM5-9			CM5-10		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	152.6	154.0	155.8	141.1	143.7	145.9	133.4	136.9	139.0
Barometric Pressure, in.	29.7	30.0	30.3	29.7	30.0	30.3	29.7	30.0	30.3
Sodium, ppm	407.0	417.8	428.0	403.0	407.7	411.0	407.0	410.3	417.0
Sulfate, ppm	354.0	359.8	368.0	339.0	344.0	348.0	341.0	354.5	369.0
Chloride, ppm	185.0	188.5	192.0	179.0	180.5	181.0	183.0	188.5	194.0
Conductivity, umhos	1940	1992	2040	1910	1917	1920	1930	1965	2030
Total Alkalinity, ppm	310.0	316.7	325.0	300.0	305.2	310.0	300.0	303.8	308.0

Well Number	CM5-11			CM5-12			CM5-13		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	124.9	128.0	130.3	113.9	116.8	118.7	112.1	114.1	117.2
Barometric Pressure, in.	29.7	30.0	30.3	29.7	30.0	30.3	29.7	29.9	30.2
Sodium, ppm	425.0	432.0	440.0	403.0	405.0	409.0	400.0	404.0	406.0
Sulfate, ppm	359.0	365.8	371.0	344.0	347.5	355.0	364.0	372.2	379.0
Chloride, ppm	204.0	208.7	212.0	181.0	184.3	187.0	186.0	189.0	193.0
Conductivity, umhos	2010	2055	2090	1910	1920	1930	1910	1945	1990
Total Alkalinity, ppm	300.0	307.2	310.0	293.0	296.0	300.0	280.0	288.3	290.0

Well Number	CM5-18			CM5-19			CM5-20		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	116.6	118.0	120.7	150.5	153.0	154.6	122.1	124.3	126.0
Barometric Pressure, in.	29.7	29.9	30.2	29.7	29.9	30.2	29.7	29.9	30.2
Sodium, ppm	400.0	403.8	409.0	404.0	407.0	408.0	403.0	406.0	408.0
Sulfate, ppm	342.0	353.2	360.0	351.0	355.5	363.0	349.0	356.8	366.0
Chloride, ppm	181.0	184.3	189.0	183.0	183.7	185.0	183.0	185.3	189.0
Conductivity, umhos	1920	1927	1940	1930	1937	1950	1930	1937	1940
Total Alkalinity, ppm	295.0	299.2	300.0	300.0	304.7	310.0	295.0	300.5	305.0

Well Number	CM5-21			CM5-22			CM5-23		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	108.3	110.0	112.3	112.5	115.1	118.5	120.3	121.6	123.8
Barometric Pressure, in.	29.7	29.9	30.2	29.6	29.8	30.0	29.6	29.8	30.0
Sodium, ppm	405.0	408.5	411.0	415.0	417.8	423.0	400.0	401.7	405.0
Sulfate, ppm	353.0	356.5	362.0	356.0	369.0	380.0	351.0	359.2	368.0
Chloride, ppm	181.0	183.0	185.0	190.0	194.0	199.0	181.0	182.7	185.0
Conductivity, umhos	1930	1945	1960	1990	1998	2010	1920	1930	1940
Total Alkalinity, ppm	300.0	303.8	305.0	295.0	303.3	310.0	295.0	298.3	300.0

Well Number	CM5-24			CM5-25			CM5-26		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	127.3	130.0	133.2	129.6	134.4	139.5	166.1	171.3	177.6
Barometric Pressure, in.	29.6	29.8	30.0	29.6	29.8	30.0	29.6	29.8	30.0
Sodium, ppm	405.0	406.8	410.0	405.0	409.7	413.0	406.0	408.8	416.0
Sulfate, ppm	350.0	355.2	362.0	358.0	366.3	378.0	348.0	353.3	363.0
Chloride, ppm	183.0	184.7	187.0	183.0	184.2	186.0	183.0	185.3	187.0
Conductivity, umhos	1940	1942	1950	1940	1958	1970	1940	1948	1950
Total Alkalinity, ppm	295.0	298.3	300.0	295.0	301.7	305.0	295.0	302.2	310.0

Well Number	CM5-27			CM4-1			CM4-2		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	189.5	194.2	199.3	142.8	146.3	149.9	161.6	164.9	168.8
Barometric Pressure, in.	29.6	29.8	30.0	29.8	30.0	30.2	29.8	30.0	30.2
Sodium, ppm	413.0	416.5	420.0	392.0	396.4	399.0	391.0	393.4	398.0
Sulfate, ppm	355.0	359.0	371.0	322.0	326.3	331.0	312.0	320.1	328.0
Chloride, ppm	183.0	186.7	191.0	181.0	183.0	185.0	183.0	189.6	198.0
Conductivity, umhos	1960	1962	1970	1860	1877	1890	1870	1894	1920
Total Alkalinity, ppm	295.0	302.5	310.0	305.0	309.1	315.0	295.0	306.0	315.0

Well Number	CM4-3			CM4-4			CM4-5		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	149.9	153.3	156.4	165.3	168.7	171.7	174.4	177.8	180.9
Barometric Pressure, in.	29.7	29.9	30.1	29.7	29.9	30.1	29.7	29.9	30.1
Sodium, ppm	404.0	408.1	411.0	394.0	397.7	400.0	381.0	384.1	388.0
Sulfate, ppm	329.0	332.6	338.0	312.0	317.7	327.0	318.0	322.6	329.0
Chloride, ppm	188.0	193.4	200.0	179.0	186.1	193.0	177.0	179.1	185.0
Conductivity, umhos	1920	1943	1970	1860	1884	1910	1830	1840	1850
Total Alkalinity, ppm	310.0	314.0	318.0	305.0	310.1	315.0	300.0	301.4	305.0

Well Number	CM4-6			CM4-7			CM3-5		
	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
Water Level, ft.	181.1	184.2	187.8	185.4	188.9	193.1	195.3	200.4	204.5
Barometric Pressure, in.	29.7	29.9	30.1	29.7	29.9	30.1	29.6	29.8	30.0
Sodium, ppm	386.0	389.3	392.0	385.0	388.4	393.0	403.0	410.3	414.0
Sulfate, ppm	316.0	325.3	334.0	317.0	322.7	332.0	348.0	361.5	376.0
Chloride, ppm	175.0	178.3	183.0	175.0	177.7	181.0	185.0	187.2	189.0
Conductivity, umhos	1850	1856	1870	1840	1851	1860	1930	1953	1970
Total Alkalinity, ppm	300.0	303.3	310.0	295.0	300.1	310.0	300.0	303.0	310.0

CROW BUTTE RESOURCES, INC.
PLUGGING PROCEDURE

HOLE NUMBER	METHOD AND MATERIALS USED			TD VIS	FINAL VIS	DATE	INSPECTED BY:
1980	11	Bags Plug Gel	Soda Ash	28	63	6/3/98	Capped 5/24/00
1998	11	Bags Plug Gel	Soda Ash	28	65	6/2/98	Capped 5/18/00
2004	9	Bags Plug Gel	Soda Ash	30	70	6/4/98	Capped 5/30/00
2005	12	Bags Plug Gel	Soda Ash	30	63	6/8/98	Capped 5/22/00
2052	10	Bags Plug Gel	Soda Ash	29	75	7/20/98	Capped 5/25/00
2065	10	Bags Plug Gel	Soda Ash	30	83	7/17/98	Capped 6/14/00
2096	5	Bags Plug Gel	Soda Ash	29	61	11/13/98	Capped 5/22/00
2180	7	Bags Plug Gel	Soda Ash	27	73	9/15/98	Capped 5/24/00
2184	5	Bags Plug Gel	Soda Ash	31	100+	10/23/98	Capped 5/22/00
2227	6	Bags Plug Gel	Soda Ash	28	63	11/20/98	Capped 5/22/00
2247	18	Bags Plug Gel	Soda Ash	28	63	11/24/98	Capped 5/22/00
2248	10	Bags Plug Gel	Soda Ash	29	70	11/25/98	Capped 5/23/00
2257	10	Bags Plug Gel	Soda Ash	31	62	12/3/98	Capped 5/23/00
2258	19	Bags Plug Gel	Soda Ash	28	64	12/7/98	Capped 5/23/00
2259	15	Bags Plug Gel	Soda Ash	30	65	12/18/98	Capped 5/23/00
2260	14	Bags Plug Gel	Soda Ash	27	62	12/3/98	Capped 5/22/00
2279	16	Bags Plug Gel	Soda Ash	27	64	1/17/00	Capped 5/24/00
2289	9	Bags Plug Gel	Soda Ash	29	84	4/20/99	Capped 5/22/00
2296	9	Bags Plug Gel	Soda Ash	29	64	4/13/99	Capped 5/22/00
2297	17	Bags Plug Gel	Soda Ash	29	62	4/19/99	Capped 5/22/00
2298	15	Bags Plug Gel	Soda Ash	30	72	1/18/00	Capped 5/22/00
2299	6	Bags Plug Gel	Soda Ash	34	64	12/2/99	Capped 5/23/00
2300	10	Bags Plug Gel	Soda Ash	27	61	12/3/99	Capped 5/22/00
2392	8	Bags Plug Gel	Soda Ash	29	61	9/30/99	Capped 5/23/00
2394	12	Bags Plug Gel	Soda Ash	29	71	10/1/99	Capped 5/23/00
2413	11	Bags Plug Gel	Soda Ash	28	75	12/15/99	Capped 5/24/00
2414	11	Bags Plug Gel	Soda Ash	32	65	12/15/99	Capped 5/22/00
2461	9	Bags Plug Gel	Soda Ash	32	62	2/4/00	Capped 5/23/00
2462	10	Bags Plug Gel	Soda Ash	27	80	2/3/00	Capped 5/23/00
2477	14	Bags Plug Gel	Soda Ash	30	69	2/14/00	Capped 5/18/00
2486	10	Bags Plug Gel	Soda Ash	27	63	2/17/00	Capped 5/18/00

CROW BUTTE RESOURCES, INC.

PLUGGING PROCEDURE

HOLE NUMBER	METHOD AND MATERIALS USED			ID VIS	FINAL VIS	DATE	INSPECTED BY:
2552	13	Bags Plug Gel	Soda Ash	28	63	4/10/00	Capped 5/23/00
2556	11	Bags Plug Gel	Soda Ash	28	68	4/7/00	Capped 5/23/00
2557	10	Bags Plug Gel	Soda Ash	28	70	4/14/00	Capped 5/22/00
2584	5	Bags Plug Gel	Soda Ash	31	79	4/18/00	Capped 5/18/00
2421	17	Bags Plug Gel	Soda Ash	30	63	4/4/00	Capped 5/22/00
2460	9	Bags Plug Gel	Soda Ash	31	72	2/7/00	Capped 5/22/00
1981	10	Bags Plug Gel	Soda Ash	33	63	7/16/98	Capped 6/16/00
1987	13	Bags Plug Gel	Soda Ash	28	61	5/28/98	Capped 6/15/00
2172	6	Bags Plug Gel	Soda Ash	28	77	9/11/98	Capped 6/15/00
2176	16	Bags Plug Gel	Soda Ash	28	100+	9/22/98	Capped 6/16/00
2177	13	Bags Plug Gel	Soda Ash	27	62	9/21/98	Capped 6/16/00
2179	13	Bags Plug Gel	Soda Ash	27	66	9/14/98	Capped 6/15/00
2182	13	Bags Plug Gel	Soda Ash	32	60	10/21/98	Capped 6/21/00
2412	9	Bags Plug Gel	Soda Ash	29	62	12/16/99	Capped 6/15/00
2427	9	Bags Plug Gel	Soda Ash	35	64	1/13/00	Capped 6/16/00
2439	16	Bags Plug Gel	Soda Ash	28	65	1/17/00	Capped 6/16/00
2440	13	Bags Plug Gel	Soda Ash	30	66	2/16/00	Capped 6/16/00
2446	11	Bags Plug Gel	Soda Ash	30	61	1/19/00	Capped 6/15/00
2463	12	Bags Plug Gel	Soda Ash	29	69	2/2/00	Capped 6/15/00
2475	14	Bags Plug Gel	Soda Ash	28	66	2/9/00	Capped 6/16/00
2480	11	Bags Plug Gel	Soda Ash	28	67	2/14/00	Capped 6/14/00
2484	14	Bags Plug Gel	Soda Ash	33	61	2/15/00	Capped 6/16/00
2514	10	Bags Plug Gel	Soda Ash	29	64	2/28/00	Capped 6/14/00
2531	10	Bags Plug Gel	Soda Ash	30	62	3/10/00	Capped 6/15/00
2532	8	Bags Plug Gel	Soda Ash	30	67	3/10/00	Capped 6/15/00
2551	12	Bags Plug Gel	Soda Ash	28	63	4/18/00	Capped 6/16/00
2565	8	Bags Plug Gel	Soda Ash	27	77	3/31/00	Capped 6/16/00
2574	8	Bags Plug Gel	Soda Ash	30	61	3/31/00	Capped 6/14/00
		Bags Plug Gel	Soda Ash				
		Bags Plug Gel	Soda Ash				
		Bags Plug Gel	Soda Ash				

Appendix B

Private Well and Surface Water Radiological Monitoring Results

First and Second Quarter, 2000

LABORATORY ANALYSIS REPORT - CROW BUTTE RESOURCES, INC.

Sample ID:	**Sample #1 Well #19**	**Sample #2 Well #27**	**Sample #3 Stream S5**
Laboratory ID:	**30891-1**	**30891-2**	**30891-3**
Sample Matrix:	**Water**	**Water**	**Water**
Sample Date:	**02-10-00**	**02-10-00**	**02-10-00**
Date Received:	**02-18-00**	**02-18-00**	**02-18-00**
Report Date:	**March 10, 2000**	**March 10, 2000**	**March 10, 2000**

Radiometric	**Results**	**Results**	**Results**
Uranium	0.0066	0.0090	0.0055
Uranium	4.47E-09	6.09E-09	3.72E-09
Radium-226	<0.2	<0.2	<0.2
Radium Precision ±	-	-	-

Sample #4 Well #41	Sample #5 Well #57	Sample #6 Well #17	Sample #7 Well #25
30891-4	30891-5	30891-6	30891-7
Water	Water	Water	Water
02-10-00	02-10-00	02-10-00	02-10-00
02-18-00	02-18-00	02-18-00	02-18-00
March 10, 2000	March 10, 2000	March 10, 2000	March 10, 2000

Results	Results	Results	Results
0.0086	0.0124	0.0047	0.0062
5.82E-09	8.39E-09	3.18E-09	4.20E-09
<0.2	<0.2	<0.2	<0.2
-	-	-	-

Sample #8 Well #24	Sample #9 Well #11	Sample #10 Well #26	Sample #11 Well #63
30891-8	30891-9	30891-10	30891-11
Water	Water	Water	Water
02-10-00	02-10-00	02-11-00	02-11-00
02-18-00	02-18-00	02-18-00	02-18-00
March 10, 2000	March 10, 2000	March 10, 2000	March 10, 2000

Results	Results	Results	Results
0.0051	0.0093	0.0076	0.015
3.45E-09	6.30E-09	5.15E-09	1.01E-08
<0.2	0.7	<0.2	<0.2
-	0.2	-	-

Sample #12 Stream S2	Sample #13 Stream S1	Sample #14 Swamp E1	Sample #15 Swamp E2
30891-12	30891-13	30891-14	30891-15
Water	Water	Water	Water
02-11-00	02-11-00	02-11-00	02-11-00
02-18-00	02-18-00	02-18-00	02-18-00
March 10, 2000	March 10, 2000	March 10, 2000	March 10, 2000

Results	Results	Results	Results
0.0050	0.0051	0.0178	0.0021
3.39E-09	3.45E-09	1.21E-08	1.42E-09
<0.2	<0.2	<0.2	<0.2
-	-	-	-

Sample #16 Mayfield Wetlands E4	Sample #17 Well #16	Sample #18 Well #12	Sample #19 Well #8
30891-16	30891-17	30891-18	30891-19
Water	Water	Water	Water
02-11-00	02-11-00	02-11-00	02-11-00
02-18-00	02-18-00	02-18-00	02-18-00
March 10, 2000	March 10, 2000	March 10, 2000	March 10, 2000

Results	Results	Results	Results
0.032	0.0072	0.0039	0.020
2.19E-08	4.87E-09	2.64E-09	1.35E-08
<0.2	<0.2	<0.2	<0.2
-	-	-	-

Sample #20 Well #129	Sample #21 Well #125	Sample #22 Furnace Room Drinking Water	Sample #23 Stream S1A
30891-20	30891-21	30891-22	30891-23
Water	Water	Water	Water
02-11-00	02-11-00	02-11-00	02-11-00
02-18-00	02-18-00	02-18-00	02-18-00
March 10, 2000	March 10, 2000	March 10, 2000	March 10, 2000

Results	Results	Results	Results
0.0094	0.0068	0.0067	0.0050
6.36E-09	4.60E-09	4.54E-09	3.39E-09
<0.2	<0.2	<0.2	<0.2
-	-	-	-

Sample #24 Mayfield Wetland E4A
30891-24
Water
02-11-00
02-18-00
March 10, 2000

Results	Units	Reporting Limit
0.032	mg/L	0.0003
2.15E-08	µCi/mL	2.03E-10
<0.2	pCi/L	0.2
-		

LABORATORY ANALYSIS REPORT
CROW BUTTE RESOURCES, INC.

Sample ID:	**Sample #1E - Drinking Water**	**Sample #2E - Well #125**	**Sample #3E - Well #19**
Laboratory ID:	**32828-1**	**32828-2**	**32828-3**
Sample Matrix:	**Water**	**Water**	**Water**
Sample Date:	**05-11-00**	**05-11-00**	**05-11-00**
Date Received:	**05-17-00**	**05-17-00**	**05-17-00**
Report Date:	**June 14, 2000**	**June 14, 2000**	**June 14, 2000**

Radiometric	**Results**	**Results**	**Results**
Uranium	0.0079	0.0072	0.0072
Uranium	5.35E-09	4.87E-09	4.87E-09
Radium-226	<0.2	<0.2	<0.2
Radium Precision ±	-	-	-

Sample #4E - Well #27	Sample #5E - E1 & E2 Comp.	Sample #6E - E4	Sample #7E - Well #63
32828-4	32828-5	32828-6	32828-7
Water	Water	Water	Water
05-11-00	05-11-00	05-11-00	05-11-00
05-17-00	05-17-00	05-17-00	05-17-00
June 14, 2000	June 14, 2000	June 14, 2000	June 14, 2000

Results	Results	Results	Results
0.0097	0.015	0.024	0.016
6.57E-09	1.02E-08	1.62E-08	1.07E-08
<0.2	<0.2	<0.2	0.5
-	-	-	0.3

Sample #8E - Well #41	Sample #9E - Well #8	Sample #10 - Well #12	Sample #11E - Well #24
32828-8	32828-9	32828-10	32828-11
Water	Water	Water	Water
05-11-00	05-12-00	05-12-00	05-12-00
05-17-00	05-17-00	05-17-00	05-17-00
June 14, 2000	June 14, 2000	June 14, 2000	June 14, 2000

Results	Results	Results	Results
0.0097	0.016	0.0037	0.0055
6.57E-09	1.10E-08	2.50E-09	3.72E-09
<0.2	0.4	<0.2	<0.2
-	0.2	-	-

Sample #12E - Well #41A	Sample #13E - Stream S-1	Sample #14E - Well #25	Sample #15E - Stream S-2
32828-12	32828-13	32828-14	32828-15
Water	Water	Water	Water
05-11-00	05-12-00	05-12-00	05-12-00
05-17-00	05-17-00	05-17-00	05-17-00
June 14, 2000	June 14, 2000	June 14, 2000	June 14, 2000

Results	Results	Results	Results
0.0096	0.0059	0.0068	0.0056
6.50E-09	3.99E-09	4.60E-09	3.79E-09
<0.2	<0.2	<0.2	<0.2
-	-	-	-

Sample #16E - Well #17	Sample #17E - Stream S-5	Sample #18E - Well #16	Sample #19E - Well #11
32828-16	32828-17	32828-18	32828-19
Water	Water	Water	Water
05-12-00	05-12-00	05-12-00	05-12-00
05-17-00	05-17-00	05-17-00	05-17-00
June 14, 2000	June 14, 2000	June 14, 2000	June 14, 2000

Results	Results	Results	Results
0.0046	0.0057	0.0079	0.0092
3.11E-09	3.86E-09	5.35E-09	6.23E-09
<0.2	2.6	<0.2	<0.2
-	0.3	-	-

Sample #20E - Well #26	Sample #21E - Stream S-5A	Sample #22E - Well #57	Sample #23E - Well #129
32828-20	32828-21	32828-22	32828-23
Water	Water	Water	Water
05-12-00	05-12-00	05-12-00	05-12-00
05-17-00	05-17-00	05-17-00	05-17-00
June 14, 2000	June 14, 2000	June 14, 2000	June 14, 2000

Results	Results	Results	Results
0.0080	0.0058	0.011	0.0093
5.42E-09	3.93E-09	7.18E-09	6.30E-09
<0.2	<0.2	<0.2	<0.2
-	-	-	-

Units	Reporting Limit
mg/L	0.0003
µCi/mL	2.03E-10
pCi/L	0.2

Appendix C

Plant Production and Waste Totals

First and Second Quarter, 2000

Appendix C
Crow Butte Resources

WELLFIELD TOTALIZER/BLEED DATA
FIRST AND SECOND QUARTERS, 2000

MONTH	PLANT POND WASTE	TOTAL DPW WASTE	TOTAL PLANT DPW WASTE	RO-DPW WASTE	PLANT POTABLE	PLNT PROD TO RO-FEED	PROD GALS	INJ GALS	PLANT BLEED %	ON-LINE FLOW
January	211650	2165628	962827	1202801	330667	628424	195767294	189839254	0.8%	4386
February	293810	2074519	970011	1104508	278968	498511	182380699	176167977	0.8%	4379
March	244590	2101868	1023102	1078766	318022	646270	195182208	188185023	0.8%	4413
April	733270	1230596	774696	455900	300369	380350	182394984	174159553	0.9%	4378
May	542820	2042622	1337976	704646	267268	387566	195486209	187289002	1.0%	4384
June	628730	2458828	1444653	1014175	288639	629295	187424952	181592935	1.3%	4337
1st Qtr Sum\Avg	750050	6342015	2955940	3386075	927657	1773205	573330201	554192254	0.8%	4393
2nd Qtr Sum\Avg	1904820	5732046	3557325	2174721	856276	1397211	565306145	543041490	1.1%	4366.3333
1st Half Sum\Avg	2654870	12074061	6513265	5560796	1783933	3170416	1138636346	1097233744	0.9%	4380

PLANT BLEED %=(PLANT POND WASTE+TOTAL DPW WASTE-'RO-DPW' WASTE-PLANT POTABLE+PLNT PROD TO RO FEED)/PRODUCTION

RESTORATION TOTALIZER DATA
FIRST AND SECOND QUARTERS, 2000

MONTH	MU1 PROD GALS	MU2 PROD GALS	MU3 PROD GALS	RO BRINE GALS	RO PERM GALS	PLNT PROD TO RO-FEED	REST. RO GALS TREATED
January	0	5317923	12956234	1202801	4585743	628424	5160120
February	0	4733027	13453736	1104508	3905938	498511	4511935
March	0	4595225	14514615	1078766	3809091	646270	4241587
April	0	2139347	13863730	455900	1797580	380350	1873130
May	0	3493930	14452575	704646	2874034	387566	3191114
June	0	47551966	14490221	1014175	4074357	629295	4459237
Sum	0	67831418	83731111	5560796	21046743	3170416	23437123

TOTAL GALLONS-INJECTION
FIRST AND SECOND QUARTERS, 2000

January	189839254	April	174159553
February	176167977	May	187289002
March	188185023	June	181592935

WELLFIELD BLEED CALCULATIONS
FIRST AND SECOND QUARTERS, 2000

MONTH	PLANT WASTE	REST WASTE	TOTAL POTABLE	PLANT PRODUCTION	REST. PRODUCTION	REST. INJECTION	WELLFIELD BLEED %
January	1174477	1202801	330667	195767294	18274157	15709922	1.0%
February	1263821	1104508	278968	182380699	18186763	18186763	1.0%
March	1267692	1078766	318022	195182208	19109840	16402523	0.9%
April	1507966	455900	300369	182394984	16003077	14035977	0.8%
May	1880816	704646	267628	195486209	17946505	15406228	1.1%
June	2073383	1014175	288639	187424952	62042187	16606765	1.1%
Sum/Avg.	9168155	5560796	1784293	1138636346	151562529	96348178	1.0%

Note: All totals are in gallons. Wellfield bleed is calculated as Plant Waste plus Restoration Waste minus Total Potable divided by Plant Production plus Restoration Production.

Appendix D

Wellfield Injection Pressures

First and Second Quarter, 2000

Appendix D
Crow Butte Resources
Wellfield Injection Pressures
First and Second Quarters 2000

WELLFIELD INJECTION PRESSURE
First Quarter 2000

	WF HOUSE #1		WF HOUSE #2		WF HOUSE #3		WF HOUSE #4		WF HOUSE #5	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
January	0	0	0	0	53	78	57	82	47	70
February	0	0	0	0	42	64	49	96	34	56
March	0	0	0	0	67	80	71	85	59	71
AVERAGE	0	0	0	0	54	80	59	96	47	71
	WF HOUSE #6		WF HOUSE #7		WF HOUSE #8		WF HOUSE #9		WF HOUSE #10	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
January	40	45	19	25	34	45	84	86	72	78
February	42	46	21	40	34	39	83	88	72	75
March	43	45	21	25	35	39	84	88	72	75
AVERAGE	42	46	20	40	34	45	84	88	72	78
	WF HOUSE #11		WF HOUSE #12		WF HOUSE #13		WF HOUSE #14		WF HOUSE #15	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
January	71	75	0	0	80	83	86	90	80	88
February	71	75	0	0	80	84	88	95	81	85
March	70	74	0	0	80	83	89	92	82	85
AVERAGE	70	75	0	0	80	84	88	95	81	88
	WF HOUSE #16		WF HOUSE #17		WF HOUSE #18		WF HOUSE #19		WF HOUSE #20	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
January	96	99	74	90	88	95	94	98	81	85
February	96	99	73	79	89	94	95	99	81	89
March	95	97	74	78	90	94	95	98	83	86
AVERAGE	96	99	74	90	89	95	95	99	82	89
	WF HOUSE #21		WF HOUSE #22		WF HOUSE #23		WF HOUSE #24		WF HOUSE #25	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
January	94	99	90	92	96	99	91	94	0	0
February	94	99	90	90	96	99	89	91	0	0
March	93	96	89	90	89	94	93	96	0	0
AVERAGE	94	99	89	92	94	99	91	96	0	0
	WF HOUSE #28		WF HOUSE #30							
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM						
January	69	72	66	69						
February	69	73	66	72						
March	67	70	62	68						
AVERAGE	68	73	65	72						

WELLFIELD INJECTION PRESSURE
Second Quarter 2000

	WF HOUSE #1		WF HOUSE #2		WF HOUSE #3		WF HOUSE #4		WF HOUSE #5	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	0	0	0	0	36	82	38	86	32	74
May	0	0	0	0	40	71	43	80	34	63
June	0	0	0	0	54	70	59	75	46	63
AVERAGE	0	0	0	0	44	82	47	86	37	74
	WF HOUSE #6		WF HOUSE #7		WF HOUSE #8		WF HOUSE #9		WF HOUSE #10	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	47	53	28	60	40	45	82	94	70	78
May	48	70	28	30	41	45	84	88	70	74
June	44	46	24	26	39	56	84	87	71	78
AVERAGE	46	70	27	60	40	56	83	94	70	78
	WF HOUSE #11		WF HOUSE #12		WF HOUSE #13		WF HOUSE #14		WF HOUSE #15	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	68	75	0	0	77	82	88	92	82	95
May	68	72	0	0	79	82	89	95	83	90
June	69	74	0	0	80	86	90	96	84	89
AVERAGE	69	75	0	0	79	86	89	96	83	95
	WF HOUSE #16		WF HOUSE #17		WF HOUSE #18		WF HOUSE #19		WF HOUSE #20	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	93	99	74	80	90	96	94	98	83	87
May	95	99	75	80	91	95	96	99	84	87
June	95	99	75	80	92	95	96	99	84	90
AVERAGE	95	99	75	80	91	96	95	99	84	90
	WF HOUSE #21		WF HOUSE #22		WF HOUSE #23		WF HOUSE #24		WF HOUSE #25	
	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	MAXIMUM
April	92	99	87	95	91	98	91	95	0	0
May	94	99	93	96	90	92	94	98	91	92
June	95	99	89	93	91	92	93	95	94	96
AVERAGE	94	99	90	96	91	98	93	98	91	96
	WF HOUSE #28			WF HOUSE #30						
	AVERAGE	MAXIMUM		AVERAGE	MAXIMUM					
April	65	72	April	63	65					
May	65	71	May	63	67					
June	66	70	June	63	67					
AVERAGE	65	72	AVERAGE	63	67					

Appendix E

Production and Injection Chemistry

First and Second Quarter, 2000

Appendix E
Crow Butte Resources
Production and Injection Chemistry
First and Second Quarter, 2000

AVERAGE CHEMICAL ANALYSIS, MONTHLY Second Quarter 2000					
WELLFIELD PRODUCTION	Ca ppm	Na ppm	Cl ppm	SO4 ppm	CO_3^- ppm(Ct)*
April	98.7	1249.0	557.5	1037.2	1430.5
May	95.4	1226.7	553.5	1005.2	1418.0
June	94.4	1201.5	541.3	970.8	1413.1
WELLFIELD INJECTION	Ca ppm	Na ppm	Cl ppm	SO4 ppm	CO_3^- ppm(Ct)*
April	97.7	1322.3	580.3	1028.9	1566.8
May	94.0	1304.3	576.7	985.1	1567.0
June	93.0	1285.0	562.9	967.2	1601.0

MAXIMUM & MINIMUM ASSAYS INJECTED Second Quarter 2000					
WELLFIELD INJECTION	pH s.u.	Na ppm	Cl ppm	SO4 ppm	CO_3^- ppm(Ct)*
MINIMUM	7.5	1203.0	546.0	882.0	1350.0
MAXIMUM	8.3	1383.0	623.0	1098.0	1748.0

AVERAGE CHEMICAL ANALYSIS, MONTHLY First Quarter 2000					
WELLFIELD PRODUCTION	Ca ppm	Na ppm	Cl ppm	SO4 ppm	CO_3^- ppm(Ct)*
January	101.1	1265.1	549.8	1024.4	1476.0
February	101.9	1263.0	555.4	1055.5	1479.3
March	101.4	1261.7	558.1	1053.5	1449.7
WELLFIELD INJECTION	Ca ppm	Na ppm	Cl ppm	SO4 ppm	CO_3^- ppm(Ct)*
January	100.2	1339.5	560.5	1021.5	1610.8
February	100.5	1337.0	580.7	1048.0	1626.2
March	100.4	1325.9	580.3	1048.3	1579.6

MAXIMUM & MINIMUM ASSAYS INJECTED First Quarter 2000					
WELLFIELD INJECTION	pH s.u.	Na ppm	Cl ppm	SO4 ppm	CO_3^- ppm(Ct)*
MINIMUM	7.5	1284.0	561.0	986.0	1395.0
MAXIMUM	8.1	1392.0	610.0	1098.0	1763.0

* ALK = Ct / 1.2

AVERAGE CHEMICAL ANALYSIS, MONTHLY First Quarter 2000					
WELLFIELD PRODUCTION	Ca ppm	Na ppm	Cl ppm	SO4 ppm	CO_3^- ppm(Ct)*
January	101.1	1265.1	549.8	1024.4	1476.0
February	101.9	1263.0	555.4	1055.5	1479.3
March	101.4	1261.7	558.1	1053.5	1449.7
WELLFIELD INJECTION	Ca ppm	Na ppm	Cl ppm	SO4 ppm	CO_3^- ppm(Ct)*
January	100.2	1339.5	560.5	1021.5	1610.8
February	100.5	1337.0	580.7	1048.0	1626.2
March	100.4	1325.9	580.3	1048.3	1579.6

MAXIMUM & MINIMUM ASSAYS INJECTED First Quarter 2000					
WELLFIELD INJECTION	pH s.u.	Na ppm	Cl ppm	SO4 ppm	CO_3^- ppm(Ct)*
MINIMUM	7.5	1284.0	561.0	986.0	1395.0
MAXIMUM	8.1	1392.0	610.0	1098.0	1763.0

*** ALK = Ct / 1.2**

AVERAGE CHEMICAL ANALYSIS, MONTHLY Second Quarter 2000					
WELLFIELD PRODUCTION	**Ca ppm**	**Na ppm**	**Cl ppm**	**SO4 ppm**	**CO_3^- ppm(Ct)***
April	98.7	1249.0	557.5	1037.2	1430.5
May	95.4	1226.7	553.5	1005.2	1418.0
June	94.4	1201.5	541.3	970.8	1413.1
WELLFIELD INJECTION	**Ca ppm**	**Na ppm**	**Cl ppm**	**SO4 ppm**	**CO_3^- ppm(Ct)***
April	97.7	1322.3	580.3	1028.9	1566.8
May	94.0	1304.3	576.7	985.1	1567.0
June	93.0	1285.0	562.9	967.2	1601.0

MAXIMUM & MINIMUM ASSAYS INJECTED Second Quarter 2000					
WELLFIELD INJECTION	**pH s.u.**	**Na ppm**	**Cl ppm**	**SO4 ppm**	**CO_3^- ppm(Ct)***
MINIMUM	7.5	1203.0	546.0	882.0	1350.0
MAXIMUM	8.3	1383.0	623.0	1098.0	1748.0

*** ALK = Ct / 1.2**

Appendix F

Monthly Deep Disposal Well Reports

First and Second Quarter, 2000

CROW BUTTE RESOURCES, INC.

86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169

(308) 665-2215
(308) 665-2341 – FAX

February 18, 2000

Nebraska Department of Environmental Quality
Ground Water Section
PO Box 98922
Lincoln, Nebraska 68509-8922

Attention: Mr. Dave Miesbach

Re: **January 2000** Monthly Monitoring Report for Crow Butte Mine Class I Non-Hazardous Waste Injection Well, Permit Number NE0206369

Dear Mr. Miesbach:

Attached is the monthly monitoring report (MMR) data for the Class I Injection Well (Deep Disposal Well (DDW)) located at the Crow Butte Mine near Crawford, Nebraska. The MMR is submitted in accordance with Part II, B. of the referenced UIC permit.

Table 1 lists the operation statistics for the DDW continuous recording devices for the month. All the permit parameters were in compliance for the month. Table 2 lists the operating statistics based on the daily inspection readings. The process plant operators take the daily readings twice per day and a copy of the actual recording sheet is shown on Table 3. A summary of the weekly grab sample assay results is given on Table 4.

If you have any questions or require any further information, please do not hesitate to call me at (308) 665-2215.

Sincerely,
CROW BUTTE RESOURCES, INC.

Michael Griffin
Manager of Environmental and Regulatory Affairs

Attachments: As Stated

cc: Dave Carlson – NDEQ

Table 1			
Crow Butte Project Deepwell Operational Monitoring Continuous Data Record Statistics January 2000			
	Min.	**Average**	**Max.**
Injection Pressure	0.0	5.3	90.0
Flowrate (GPM)	0.0	48.8	97.0*
Annulus Pressure (psi)	412.0	424.1	445.0
pH		7.6	
Gallons/Day (Gals.)		69859	
Total Gals. in Month			2165628

* January 11th a momentary injection flowrate of 102 gpm was reached on high pressure pump startup.

Table 2			
Crow Butte Project Deepwell Operational Monitoring Daily Manual Inspection Statistics January 2000			
	Min.	**Average**	**Max.**
Injection Pressure	0.0	2.1	60.0
Flowrate (GPM)	15.0	47.6	75.0
Annulus Pressure (psi)	416.0	435.0	428.9
Total Gals. in Month			2165628

Crow Butte Project
Deep Well Injection Data Record

Month Jan.
Year 2000

	DAY SHIFT							EVENING SHIFT						
Date	Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F	Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F
1	0835	TC	64	27312	430	0	68°	1930	JE	56	60740	435	0	68°
2	08:05	von	36	16352	430	0	66°	2151	SH	75	59644	430	60	68°
3	07:15	von	35	19304	430	0	66°	2245	SH	64	57281	430	0	66°
4	07:15	von	37	28957	426	0	66°	2346	SH	35	2360	430	0	68°
5	07:11	von	47	20230	430	0	67°	2230	SH	66	68429	430	0	68°
6	0745	HZ	27	30341	433	0	66°	2042	TC	61	60931	430	0	66°
7	0706	HZ	30	20469	435	0	66°	2230	TC	37	59153	430	0	66°
8	0800	HZ	35	17300	428	0	66°	2130	TC	68	56568	430	0	66°
9	0745	JE	44	24709	430	0	66°	2015	TC	67	60401	430	0	66°
10	1410	SH	63	42286	430	0	66°	19:55	von	29	59202	428	0	66°
11	0858	SH	67	37278	430	0	66°	20:06	von	64	72657	428	0	67°
12	0546	SH	24	26645	430	0	66°	20:19	von	68	49114	429	0	67°
13	1400	SH	24	36406	435	0	66°	19:49	von	68	53324	429	0	67°
14	0705	HZ	61	24845	420	0	67°	21:57	TC	27	53660	420	0	67°
15	0745	JE	59	28166	430	0	67°	2130	TC	44	68166	430	0	67°
16	0730	JE	22	25559	430	0	67°	2104	TC	69	68011	430	0	68°
17	0710	JE	69	29506	430	0	67°	1925	TC	84	69629	430	0	67°
18	1800	SH	33	46585	430	0	66°	19:40	von	31	49681	438	0	67°
19	0903	SH	64	32506	430	0	68°	19:40	von	65	67060	426	0	67°
20	1040	SH	45	33483	430	0	68°	19:51	von	43	56123	430	0	66°
21	1:10	SH	37	46033	430	0	67°	19:54	von	18	58912	430	0	67°
22	0815	TC	28	31229	435	0	67°	1945	JE	64	65564	430	0	67°
23	1005	TC	24	32509	430	0	67°	1945	JE	35	65839	430	0	67°
24	0720	TC	33	16620	430	0	67°	1946	JE	15	53493	430	0	67°
25	0724	TC	31	28973	430	0	68°	1930	JE	58	68538	490	0	67°
26	07:26	von	54	16476	424	0	66°	2217	SH	32	51609	425	0	66°
27	07:46	von	67	21549	425	0	66°	2149	SH	67	68673	425	14	67°
28	07:46	von	75	33896	424	50	67°	2130	SH	39	84892	425	0	67°
29	07:40	von	65	33539	427	0	67°	2240	SH	48	76980	430	0	67°
30	0951	TC	56	23633	430	0	67°	2010	JE	28	51782	430	0	67°
31	1530	TC	58	53457	430	0	67°	1920	HZ	58	74102	416	8	66°

Weekly Composite Sample

DATE	TIME	INITIALS

Weekly Composite Sample

DATE	TIME	INITIALS

CROW BUTTE PROJECT
DEEP WELL DATA ANALYSIS
JANUARY 2000

LABORATORY	ELEMENT				MONTHLY AVG.		LIMIT
		JAN6,2000	JAN13,2000	JAN20,2000	JAN27,2000		
CROW BUTTE LAB	Na mg/l	6,984	9,450	4,633	1,683	5,688	40,000
CROW BUTTE LAB	SO4 mg/l	1,948	2,133	1,936	1,310	1,832	10,000
CROW BUTTE LAB	Cl mg/l	7,128	11,775	5,049	780	6,183	40,000
ENERGY LAB	As mg/l					0.22	1
ENERGY LAB	Ba mg/l					0.10	20
ENERGY LAB	Se mg/l					<0.10	2
CROW BUTTE LAB	V mg/l	12.0	23.0	11.0	2.8	12	50
CROW BUTTE LAB	U-nat mg/l	9.7	3.5	7.1	1.5	5	25
ENERGY LAB	Ra 226 pCI/l					1,510	5,000
CROW BUTTE LAB	Alkalinity mg/l	1,550	1,400	1,450	1,575	1,494	4,100
CROW BUTTE LAB	Ph STD UNIT	8.4	8.3	8.4	8.4	8.4	5.0-8.5
CROW BUTTE LAB	Temp (F)	66	67	67	67	67	NONE

Report Approved By:
Energy Lab - CRM for ELI
Crow Butte Lab - SM
Plant Superintendent - CRM

ENERGY LABORATORIES
Billings • Casper • Gillette
Helena • Rapid City

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

LABORATORY ANALYSIS REPORT
CROW BUTTE RESOURCES

Sample ID:	Monthly Deep Well Composite January 2000
Sample Date:	01-01-00
Sample Matrix:	Water
Laboratory ID:	30645-1
Report Date:	February 17, 2000

Trace Metals	Method	Units	Reporting Limit	Results
Arsenic	EPA 200.8	mg/L	0.10	0.22
Barium	EPA 200.8	mg/L	0.10	0.10
Selenium	EPA 200.8	mg/L	0.10	< 0.10

Radiometrics				
Radium 226	EPA 903.0	pCi/L	0.2	1510
Radium Error Estimate ±				53.9

msj r:\reports\clients2000\crow_butte\water\mdwcomp\30645-1.xls

ELI

QUALITY ASSURANCE REPORT
CROW BUTTE RESOURCES

Laboratory ID Range: 30644.00
Report Date: February 17, 2000

Trace Metals	Method	RPD[1] #1 %	RPD #2 %	Spike[2] #1 %	Spk #2 %	Analyst	Date Analyzed
Arsenic	EPA 200.8	0.0	-	95	-	TS	02-09-00
Barium	EPA 200.8	0.2	-	99	-	TS	02-09-00
Selenium	EPA 200.8	0.5	-	96	-	TS	02-09-00

Signature Rod Schilt

Radiometrics							
Radium 226	EPA 903.0	0.0	-	97	-	RS	02-08-00

Signature Ralph Stanley

NOTES:

(1) These values are an assessment of analytical precision. The acceptance range is 0-20% for sample results above 10 times the reporting limit. This range is not applicable to samples with results below 10 times the reporting limit.

(2) These values are an assessment of analytical accuracy. They are a percent recovery of the spike addition. ELI performs a matrix spike on 10 percent of all samples for each analytical method.

Report Approved By:

Reviewed By:

msj r:\reports\clients2000\crow_butte\water\qa\30645-1.xls

CROW BUTTE RESOURCES, INC.

86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169

(308) 665-2215
(308) 665-2341 – FAX

March 20, 2000

Nebraska Department of Environmental Quality
Ground Water Section
PO Box 98922
Lincoln, Nebraska 68509-8922

Attention: Mr. Dave Miesbach

Re: **February 2000** Monthly Monitoring Report for Crow Butte Mine Class I Non-Hazardous Waste Injection Well, Permit Number NE0206369

Dear Mr. Miesbach:

Attached is the monthly monitoring report (MMR) data for the Class I Injection Well (Deep Disposal Well (DDW)) located at the Crow Butte Mine near Crawford, Nebraska. The MMR is submitted in accordance with Part II, B. of the referenced UIC permit.

Table 1 lists the operation statistics for the DDW continuous recording devices for the month. All the permit parameters were in compliance for the month. Table 2 lists the operating statistics based on the daily inspection readings. The process plant operators take the daily readings twice per day and a copy of the data recording sheet is shown on Table 3. A summary of the weekly grab sample assay results is given on Table 4.

If you have any questions or require any further information, please do not hesitate to call me at (308) 665-2215.

Sincerely,
CROW BUTTE RESOURCES, INC.

Michael Griffin
Manager of Environmental and Regulatory Affairs

Attachments: As Stated

cc: Dave Carlson – NDEQ

Table 1			
Crow Butte Project Deepwell Operational Monitoring Continuous Data Record Statistics February 2000			
	Min.	**Average**	**Max.**
Injection Pressure	0.0	9.0	125.0
Flowrate (GPM)	0.0	49.9	92.0
Annulus Pressure (psi)	414.0	418.0	453.0
pH		7.5	
Gallons/Day (Gals.)		71535	
Total Gals. in Month			2074519

Table 2			
Crow Butte Project Deepwell Operational Monitoring Daily Manual Inspection Statistics February 2000			
	Min.	**Average**	**Max.**
Injection Pressure	0.0	8.6	93.0
Flowrate (GPM)	16.0	50.3	77.0
Annulus Pressure (psi)	417.0	426.8	432.0
Total Gals. in Month			2074519

Crow Butte Project
Deep Well Injection Data Record

Month Feb
Year 2000

	DAY SHIFT							EVENING SHIFT						
Date	Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F	Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F
1	0725	JC	39	18154	430	0	67	1930	JC	24	43445	430	0	67°
2	1435	JC	64	44872	430	0	67	0360	PR	29	6813	424	0	67°
3	07:42	von	62	21125	425	0	67°	2222	SH	58	66745	430	0	66°
4	08:22	von	66	33454	425	42	66°	2245	SH	69	84870	425	70	68°
5	08:00	von	61	38620	425	15	68°	2230	SH	72	93488	425	93	68°
6	07:48	von	27	35776	430	0	67°	2240	SH	35	75954	430	0	66°
7	0710	PR	64	21160	417	17	67°	2102	JC	36	56318	420	0	68°
8	0708	PR	64	26100	419	14	67°	2020	JC	43	10588	420	0	67°
9	0715	PR	50	28488	424	0	67°	2035	JC	47	58516	420	0	67°
10	0710	JC	65	25493	430	0	67	2200	JC	44	63664	430	0	67°
11	0800	SH	30	22896	430	0	67°	2014	von	49	56008	425	0	66°
12	0900	SH	29	26890	425	0	67°	2002	von	73	72373	425	30	66°
13	1030	SH	26	30571	425	0	68°	1948	von	77	63187	425	53	67°
14	1904	SH	64	25605	430	0	67°	2004	von	28	55040	425	0	66°
15	0740	PR	47	23078	421	0	68°	1923	JC	66	53328	420	0	68°
16	0710	JC	30	25210	430	0	67°	2011	JC	43	57527	430	0	68°
17	0708	PR	30	28460	419	0	67°	2000	JC	24	56720	430	0	68°
18	0708	PR	61	19784	426	0	67°	1945	JC	65	55787	425	0	68°
19	1014	SH	29	31041	430	0	66°	19152	von	64	54857	428	0	68°
20	1140	SH	43	32878	430	0	68°	1942	von	73	61981	430	15	68°
21	0905	SH	39	31744	430	0	68°	1931	von	63	60718	426	0	68°
22	081	SH	37	23157	430	0	66°	1937	von	65	62408	430	0	67°
23	0725	JC	41	26522	430	0	67°	2030	PR	65	74068	423	17	67°
24	0800	JC	37	31113	430	0	67°	1957	PR	72	63471	432	0	67°
25	0840	JC	16	28631	430	0	67°	1935	PR	63	70240	430	0	67°
26	0841	JC	51	22504	430	0	67°	1922	JC	52	47447	430	0	67°
27	07127	von	53	24591	428	0	67°	2311	SH	68	77938	430	50	67°
28	0751	PR	51	27013	425	0	67°	2214	SH	34	66157	425	0	67°
29	07:10	von	62	16552	430	0	68°	2205	SH	75	63542	425	84	68°
30														
31														

Weekly Composite Sample

DATE	TIME	INITIALS

Weekly Composite Sample

DATE	TIME	INITIALS

CROW BUTTE PROJECT
DEEP WELL DATA ANALYSIS
FEBRUARY 2000

LABORATORY	ELEMENT				MONTHLY AVG.		LIMIT
		FEB3,2000	FEB10,2000	FEB17,2000	FEB24,2000		
CROW BUTTE LAB	Na mg/l	7,564	4,982	3,276	8,200	6,006	40,000
CROW BUTTE LAB	SO4 mg/l	1,832	2,199	1,873	2,131	2,009	10,000
CROW BUTTE LAB	Cl mg/l	2,462	11,018	2,861	10,444	6,696	40,000
ENERGY LAB	As mg/l					0.26	1
ENERGY LAB	Ba mg/l					0.11	20
ENERGY LAB	Se mg/l					0.10	2
CROW BUTTE LAB	V mg/l	21.0	22.0	6.2	25.0	19	50
CROW BUTTE LAB	U-nat mg/l	4.9	3.3	8.1	7.4	6	25
ENERGY LAB	Ra 226 pCI/l					1,590	5,000
CROW BUTTE LAB	Alkalinity mg/l	1,500	1,525	1,900	1,400	1,581	4,100
CROW BUTTE LAB	Ph STD UNIT	8.3	8.2	8.5	8.2	8.3	5.0-8.5
CROW BUTTE LAB	Temp (F)	67	67	68	67	67	NONE

Report Approved By:
Energy Lab - CRM for ELI
Crow Butte Lab - SM
Plant Manager - CRM

CROW BUTTE RESOURCES, INC.

86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169

(308) 665-2215
(308) 665-2341 – FAX

April 17, 2000

Nebraska Department of Environmental Quality
Ground Water Section
PO Box 98922
Lincoln, Nebraska 68509-8922

Attention: Mr. Dave Miesbach

Re: **March 2000** Monthly Monitoring Report for Crow Butte Mine Class I Non-Hazardous Waste Injection Well, Permit Number NE0206369

Dear Mr. Miesbach:

Attached is the monthly monitoring report (MMR) data for the Class I Injection Well (Deep Disposal Well (DDW)) located at the Crow Butte Mine near Crawford, Nebraska. The MMR is submitted in accordance with Part II, B. of the referenced UIC permit.

Table 1 lists the operation statistics for the DDW continuous recording devices for the month. All the permit parameters were in compliance for the month. Table 2 lists the operating statistics based on the daily inspection readings. The process plant operators take the daily readings twice per day and a copy of the data recording sheet is shown on Table 3. A summary of the weekly grab sample assay results is given on Table 4.

If you have any questions or require any further information, please do not hesitate to call me at (308) 665-2215.

Sincerely,
CROW BUTTE RESOURCES, INC.

Michael Griffin
Manager of Environmental and Regulatory Affairs

Attachments: As Stated

cc: Dave Carlson – NDEQ

Table 1			
Crow Butte Project Deepwell Operational Monitoring Continuous Data Record Statistics March 2000			
	Min.	**Average**	**Max.**
Injection Pressure	0.0	9.9	112.7
Flowrate (GPM)	0.0	47.4	77.0
Annulus Pressure (psi)	413.0	423.4	485.0
pH		7.5	
Gallons/Day (Gals.)		67802	
Total Gals. in Month			2101868

Table 2			
Crow Butte Project Deepwell Operational Monitoring Daily Manual Inspection Statistics March 2000			
	Min.	**Average**	**Max.**
Injection Pressure	0.0	5.0	100.0
Flowrate (GPM)	0.0	49.0	75.0
Annulus Pressure (psi)	410.0	427.1	435.0
Total Gals. in Month			2101868

Crow Butte Project
Deep Well Injection Data Record

Month: May
Year: 2000

	DAY SHIFT							EVENING SHIFT						
Date	Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F	Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F
1	07:23	von	23	29689	430	0	66°	2243	SH	74	66975	430	100	68°
2	0720	PC	52	27560	430	0	68°	1940	PC	18	60393	435	0	68°
3	0735	PC	58	17421	430	0	68°	1935	PR	36	49167	422	0	68°
4	0738	PC	35	30366	430	0	68°	1936	PR	62	61430	425	18	68°
5	0750	PC	65	29400	430	0	68°	1940	PR	23	62980	432	0	68°
6	0711	von	38	28296	432	0	68°	2150	SH	60	70905	430	32	68°
7	07:11	von	61	32394	430	30	68°	2212	SH	31	77604	430	0	68°
8								1955	P.S.	58	51507	410	0	68°
9	07:11	von	28	14046	423	0	66°	2213	SH	34	48458	430	0	68°
10	0730	PC	33	29660	425	0	66°	2140	PC	61	26461	425	0	67°
11	0730	PC	52	21825	430	0	66°	2055	PC	72	63695	430	0	67°
12	0735	PC	37	24774	430	0	66°	2002	PC	95	58268	430	0	66°
13	0715	PC	33	17168	430	0	66°	2018	PC	37	55435	430	0	66°
14	1:10	SH	26	23463	430	0	66°	19:46	von	64	56586	428	0	68°
15	0845	SH	58	32449	425	0	68°	19:37	von	60	68913	428	0	68°
16	0853	SH	34	31500	425	0	67°	19:42	von	66	63223	428	0	68°
17	1113	SH	42	29233	425	0	68°	19:23	von	63	50692	428	0	68°
18	0800	LC	58	19503	430	0	68°	2000	PC	58	45635	421	0	68°
19	0730	PR	44	22720	418	0	68°	2030	PC	44	52030	420	0	68°
20	0795	LC	53	20655	430	0	68°	2050	PC	39	50323	420	0	68°
21	0715	LC	32	29968	430	0	68°	1920	PC	10	13562	430	0	68°
22	0903	SH	63	28270	430	0	68°	20:14	von	64	55514	426	0	67°
23	0837	SH	62	32067	430	0	68°	19:41	von	61	57282	430	0	66°
24	1236	E.D.	28	47460	423	0	68°	19:32	von	69	61429	428	25	68°
25	0745	LC	23	26875	430	0	68°	20:00	von	59	60990	430	0	68°
26	1145	SH	32	26406	430	0	66°	1940	PR	72	51000	419	72	68°
27	0820	PC	60	21878	420	0	68°	1950	PR	64	57200	419	21	68°
28	0755	PC	60	25885	420	0	68°	1943	PR	59	50795	424	0	68°
29	0720	PC	42	23359	420	0	68°	1955	PR	60	57680	414	8	68°
30	0745	SH	33	15111	430	0	67°	2022	SH	31	46883	430	0	68°
31	07:14	von	29	27717	430	0	67°	2223	SH	62	71554	430	0	68°

Weekly Composite Sample

DATE	TIME	INITIALS

Weekly Composite Sample

DATE	TIME	INITIALS

CROW BUTTE PROJECT
DEEP WELL DATA ANALYSIS
MARCH 2000

LABORATORY	ELEMENT					MONTHLY AVG.		LIMIT
		MAR 2,2000	MAR9,2000	MAR16,2000	MAR23,20	MAR30,2000		
CROW BUTTE LAB	Na mg/l	8,733	5,453	7,974	6,888	3,675	6,545	40,000
CROW BUTTE LAB	SO4 mg/l	2,380	1,887	2,087	2,125	1,789	2,054	10,000
CROW BUTTE LAB	Cl mg/l	10,909	6,083	9,994	8,546	3,386	7,784	40,000
ENERGY LAB	As mg/l						0.18	1
ENERGY LAB	Ba mg/l						0.13	20
ENERGY LAB	Se mg/l						<0.10	2
CROW BUTTE LAB	V mg/l	21.0	14.0	17.0	14.0		.17	50
CROW BUTTE LAB	U-nat mg/l	5.6	7.3	5.4	5.5	5.1	6	25
ENERGY LAB	Ra 226 pCI/l						1,330	5,000
CROW BUTTE LAB	Alkalinity m	1,650	1,550	1,400	1,500	1,750	1,570	4,100
CROW BUTTE LAB	Ph STD UN	8.3	8.2	8.2	8.3	8.3	8.2	5.0-8.5
CROW BUTTE LAB	Temp (F)	68	67	68	67	68	68	NONE

Report Approved By:
Energy Lab - CRM for ELI
Crow Butte Lab - SM
Plant Manager - CRM

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

Billings • Casper • Gillette
Helena • Rapid City

LABORATORY ANALYSIS REPORT
CROW BUTTE RESOURCES

Sample ID:	Monthly Deep Well Composite March 2000
Sample Date:	March 2000
Sample Matrix:	Water
Laboratory ID:	31713-1
Report Date:	April 13, 2000

Trace Metals	Method	Units	Reporting Limit	Results
Arsenic	EPA 200.8	mg/L	0.10	0.18
Barium	EPA 200.8	mg/L	0.10	0.13
Selenium	EPA 200.8	mg/L	0.10	< 0.10

Radiometrics				
Radium 226	EPA 903.0	pCi/L	0.2	1330
Radium Error Estimate ±				13.1

msj r:\reports\clients2000\crow_butte\water\mdwcomp\31713-1.xls

QUALITY ASSURANCE REPORT
CROW BUTTE RESOURCES

Laboratory ID Range: 31713-1
Report Date: April 13, 2000

Trace Metals	Method	RPD[1] #1 %	RPD #2 %	Spike[2] #1 %	Spk #2 %	Analyst	Date Analyzed
Arsenic	EPA 200.8	0.0	-	88	-	TS	04-10-00
Barium	EPA 200.8	0.9	-	93	-	TS	04-10-00
Selenium	EPA 200.8	0.0	-	-	-	TS	04-10-00

Signature _____

Radiometrics							
Radium 226	EPA 903.0	6.5	-	98	-	RS	04-11-00

Signature _____

NOTES:

(1) These values are an assessment of analytical precision. The acceptance range is 0-20% for sample results above 10 times the reporting limit. This range is not applicable to samples with results below 10 times the reporting limit.

(2) These values are an assessment of analytical accuracy. They are a percent recovery of the spike addition. ELI performs a matrix spike on 10 percent of all samples for each analytical method.

Report Approved By: Reviewed By:

msj r:\reports\clients2000\crow_butte\water\qa\31713-1.xls

-00 02:12pm From-ENERGY LABORATORIES Inc. CASPER 1-307-234-1639 T-633 P.03/03 F-250

FILE

CROW BUTTE RESOURCES, INC.

86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169

(308) 665-2215
(308) 665-2341 – FAX

May 19, 2000

Nebraska Department of Environmental Quality
Ground Water Section
PO Box 98922
Lincoln, Nebraska 68509-8922

Attention: Mr. Dave Miesbach

Subject: **April 2000** Monthly Monitoring Report for Crow Butte Mine Class I Non-Hazardous Waste Injection Well, Permit Number NE0206369

Dear Mr. Miesbach:

Attached is the monthly monitoring report (MMR) data for the Class I Injection Well (Deep Disposal Well (DDW)) located at the Crow Butte Mine near Crawford, Nebraska. The MMR is submitted in accordance with Part II, B. of the referenced UIC permit.

Table 1 lists the operation statistics for the DDW continuous recording devices for the month. All the permit parameters were in compliance for the month. Table 2 lists the operating statistics based on the daily inspection readings. The process plant operators take the daily readings twice per day and a copy of the data recording sheet is shown on Table 3. A summary of the weekly grab sample assay results is given on Table 4.

On April 16, the mine experienced a power outage that affected the data storage system. Data for deep well flow, injection pressure and annulus pressure for the period of 0320 to 0600 hours on April 16. Waste was not injected during this time since power was also not available for the waste pumps. Attached are graphs for this period for the three parameters.

If you have any questions or require any further information, please do not hesitate to call me at (308) 665-2215.

Sincerely,
CROW BUTTE RESOURCES, INC.

Michael Griffin
Manager of Environmental and Regulatory Affairs

Attachments: As Stated

cc: Dave Carlson – NDEQ

Table 1			
Crow Butte Project Deepwell Operational Monitoring Continuous Data Record Statistics April 2000			
	Min.	**Average**	**Max.**
Injection Pressure	0.0	2.5	105.8
Flowrate (GPM)	0.0	28.7	80.0
Annulus Pressure (psi)	413.0	524.7	830*
pH		7.4	
Gallons/Day (Gals.)		41020	
Total Gals. in Month			1230596

*The meter malfunctioned 4/19/00 due to a lightning strike and had a reading of 1500 psi.

Table 2			
Crow Butte Project Deepwell Operational Monitoring Daily Manual Inspection Statistics April 2000			
	Min.	**Average**	**Max.**
Injection Pressure	0.0	0.9	26.0
Flowrate (GPM)	0.0	27.7	69.0
Annulus Pressure (psi)	420.0	554.9	730.0
Total Gals. in Month			1230596

Crow Butte Project
Deep Well Injection Data Record

Month April
Year 2000

	DAY SHIFT							EVENING SHIFT						
Date	Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F	Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F
1	0805	JE	55	28446	430	0	68°	2246	SH	62	63690	430	17	68°
2	07:49	vm	69	27433	430	10	68°	2215	SH	62	78772	430	26	68°
3	0835	P.S.	26	25653	421	0	68°	1930	PR	21	52661	422	0	68°
4	0724	JE	35	26355	421	0	68°	1956	PR	31	52573	429	0	68°
5	0725	JE	22	24829	430	0	68°	1925	PR	17	53000	433	0	68°
6	0715	JE	33	14591	420	0	68°	1930	PR	22	39100	427	0	68°
7	07:21	vm	28	19256	435	0	67°	2131	SH	47	52925	430	0	68°
8	08:00	vm	28	23488	432	0	67°	2223	SH	62	66506	430	0	68°
9	07:41	vm	58	22433	428	0	67°	0148	SH	58	3143	430	0	66°
10	07:20	vm	23	14820	434	0	66°	2158	SH	31	42328	430	0	66°
11	10:30	JE	30	19481	435	0	66°	1927	JE	31	36515	700	0	66°
12	0715	JE	32	13583	700	0	66°	1935	JE	31	37382	700	0	66°
13	0705	JE	33	13460	705	0	66°	1925	JE	32	34887	705	0	66°
14	0845	JE	32	14698	705	0	66°	1955	JE	32	37806	700	0	66°
15	0800	JE	31	15002	700	0	66°	1105	SH	31	20733	700	0	66°
16	1215	SH	30	16293	700	0	66°	20:00	vm	31	30691	700	0	66°
17	0855	SH	30	15025	700	0	66°	19:50	vm	31	35471	700	0	67°
18	1005	E.D.	32	18604	709	0	66°	19:47	vm	0	24265	554	0	52°
19	0810	JE *	0	0	650	0	66°	2030	JE	0	1	650	0	52°
20	0850	E.D.	29	0	650	0	53	2035	JE	0	0	650	0	54°
21	0800	JE	0	0	650	0		2020	JE	0	0	650	0	53°
22	0750	PR	0	0	650	0		2020	JE	0	0	650	0	54°
23	1024	SH	0	0	695	0	57	19:27	vm	0	0	721	0	57°
24	1556	SH	30	137	730	0	62°	19:41	vm	19	5976	492	0	65°
25	~~1045~~	~~E.D.~~	~~31~~	~~18~~				19:34	vm	34	41745	496	0	67°
26	1245	E.D.	31	18201	495	0		19:40	vm	23	30462	500	0	66°
27	0730	JE	24	25180	480	0	66°	1950	JE	16	39351	505	0	66°
28	0733	JE	20	14278	500	0	66°	1950	PR	50	27483	519	0	66°
29	0752	JE	0	15726	520	0	66°	1925	PR	24	30911	477	0	66°
30	0835	JE	14	6794	500	0	66°	1915	JE	23	16907	510	0	66°
31														

* Power outage

Weekly Composite Sample

DATE	TIME	INITIALS

Weekly Composite Sample

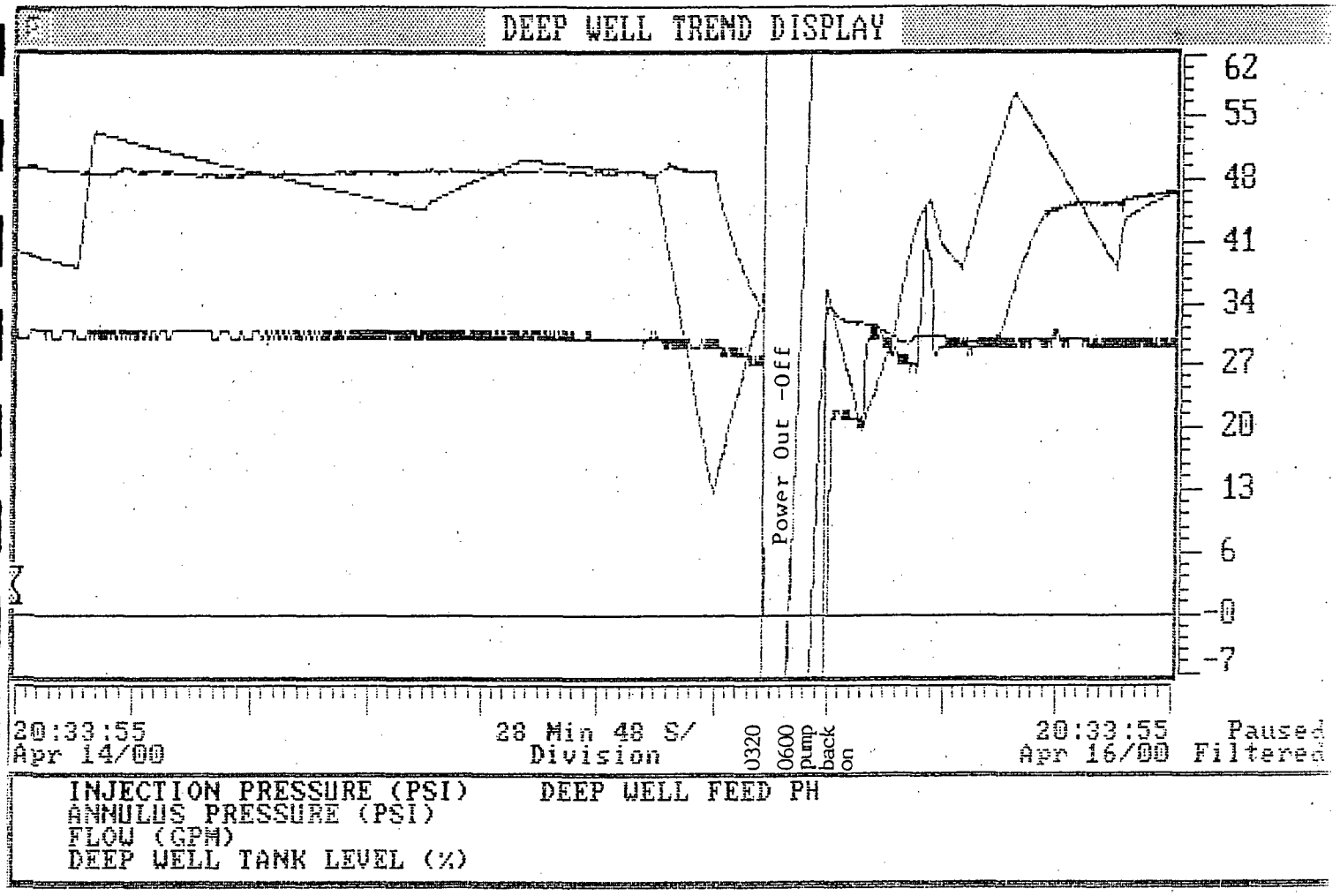
DATE	TIME	INITIALS

CROW BUTTE PROJECT
DEEP WELL DATA ANALYSIS
APRIL 2000

LABORATORY	ELEMENT				MONTHLY AVG.		LIMIT
		APR 6,2000	APR 13, 2000	APR 18,2000	APR 27,2000		
CROW BUTTE LAB	Na mg/l	6,088	2,189	8,548	2,734	4,890	40,000
CROW BUTTE LAB	SO4 mg/l	2,055	1,763	1,912	1,014	1,686	10,000
CROW BUTTE LAB	Cl mg/l	6,952	887	11,834	2,929	5,651	40,000
ENERGY LAB	As mg/l					<0.10	1
ENERGY LAB	Ba mg/l					0.11	20
ENERGY LAB	Se mg/l					<0.10	2
CROW BUTTE LAB	V mg/l	16.0	4.3	22.0	5.1	12	50
CROW BUTTE LAB	U-nat mg/l	3.5	2.3	9.8	3.7	5	25
ENERGY LAB	Ra 226 pCI/l					1,210	5,000
CROW BUTTE LAB	Alkalinity m	1,675	2,050	888	875	1,372	4,100
CROW BUTTE LAB	Ph STD UN	8.3	8.7	8.2	8.4	8.4	5.0-8.5
CROW BUTTE LAB	Temp (F)	68	66	66	66	67	NONE

Report Approved By:
Energy Lab - CRM for ELI
Crow Butte Lab - SM
Plant Manager - CRM

Flow GPM

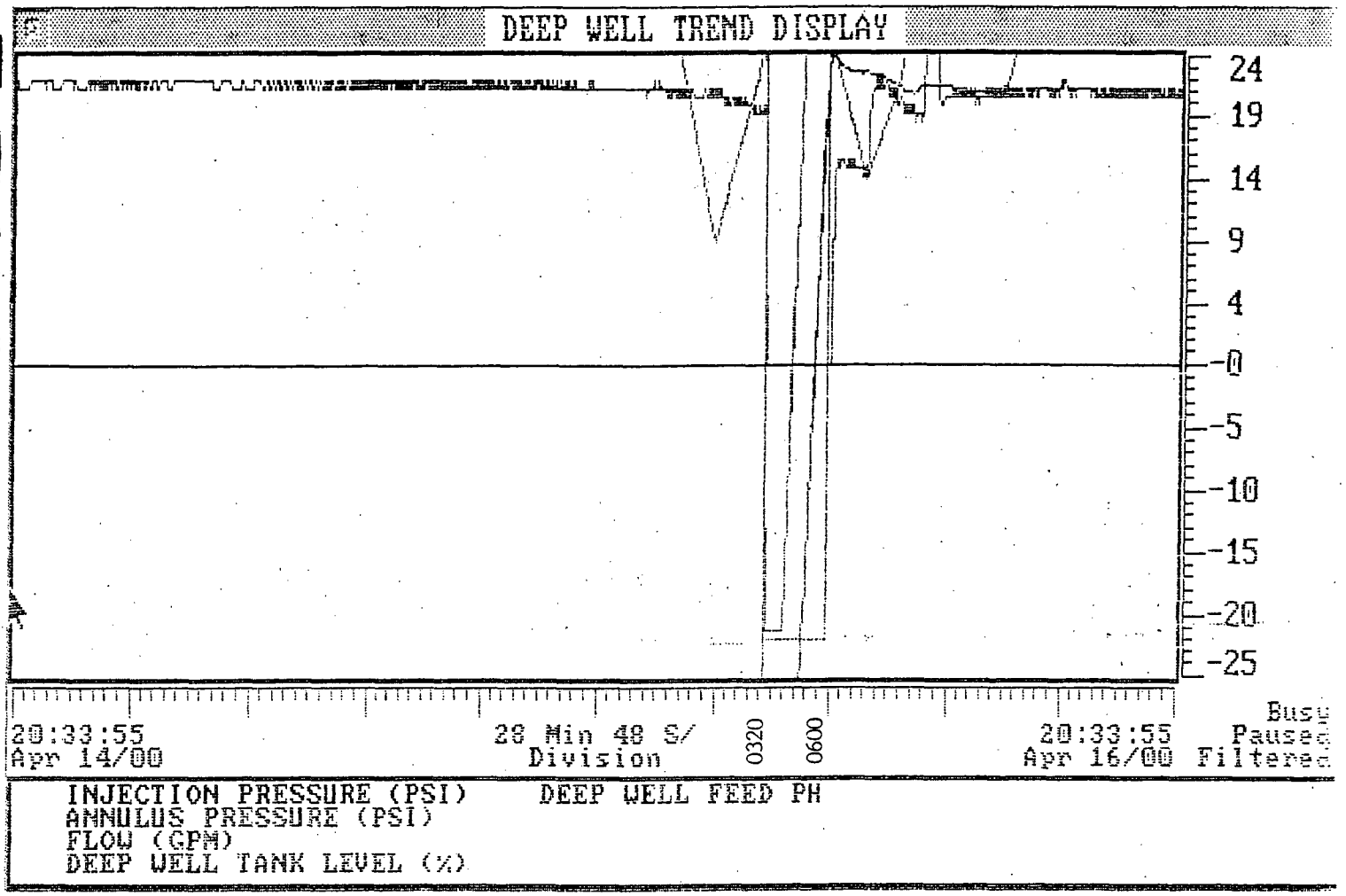


Screenprint

Sup:8

HW1: 2 HW2:PLC540EC NW1: CVE Apr 17, 2000 11:30:12 a

Injection Pressure

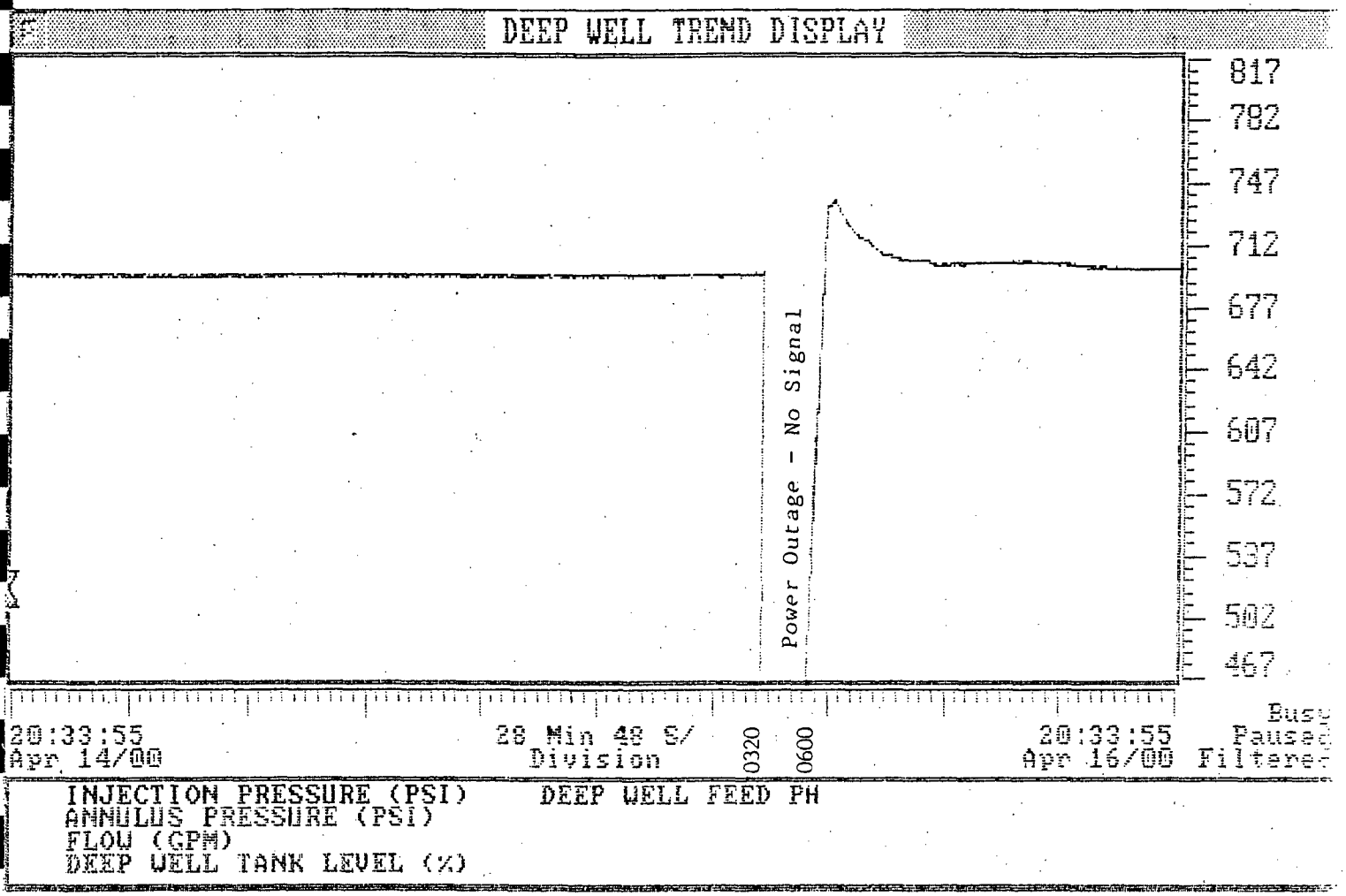


screenprint

Sup:8

HW1: 2 HW2: NW1: Apr 17, 2000 11:32:11 a

Annulus Pressure



screenprint

Sup:8

HW1: 2 HW2:PLC540EC NW1: Apr 17, 2000 11:32:38 a

ENERGY LABORATORIES
Billings • Casper • Gillette
Helena • Rapid City

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

LABORATORY ANALYSIS REPORT
CROW BUTTE RESOURCES

Sample ID:	Monthly Deep Well Composite
Sample Date:	April 2000
Sample Matrix:	Liquid, Water
Laboratory ID:	32325-1
Report Date:	May 18, 2000

Trace Metals	Method	Units	Reporting Limit	Results
Arsenic	EPA 200.8	mg/L	0.10	< 0.10
Barium	EPA 200.8	mg/L	0.10	0.11
Selenium	EPA 200.8	mg/L	0.10	< 0.10

Radiometrics				
Radium 226	EPA 903.0	pCi/L	0.2	1210
Radium Error Estimate ±				43.2

msj r:\reports\clients2000\crow_butte\liquid\mdwcomp\32325-1.xls

CROW BUTTE RESOURCES, INC.

86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169

(308) 665-2215
(308) 665-2341 – FAX

June 15, 2000

Nebraska Department of Environmental Quality
Ground Water Section
PO Box 98922
Lincoln, Nebraska 68509-8922

Attention: Mr. Dave Miesbach

Re: **May 2000** Monthly Monitoring Report for Crow Butte Mine Class I Non-Hazardous Waste Injection Well, Permit Number NE0206369

Dear Mr. Miesbach:

Attached is the monthly monitoring report (MMR) data for the Class I Injection Well (Deep Disposal Well (DDW)) located at the Crow Butte Mine near Crawford, Nebraska. The MMR is submitted in accordance with Part II, B. of the referenced UIC permit.

Table 1 lists the operation statistics for the DDW continuous recording devices for the month. All the permit parameters were in compliance for the month. Table 2 lists the operating statistics based on the daily inspection readings. The process plant operators take the daily readings twice per day and a copy of the data recording sheet is shown on Table 3. A summary of the weekly grab sample assay results is given on Table 4. The analysis for natural uranium indicates that the monthly average of the weekly grab samples of 27.8 mg/l exceeds the permit limitation of 25 mg/l. The cause of this exceedance was plant upset conditions due to a lightning strike that interrupted the plant power supply.

If you have any questions or require any further information, please do not hesitate to call me at (308) 665-2215.

Sincerely,
CROW BUTTE RESOURCES, INC.

Michael Griffin
Manager of Environmental and Regulatory Affairs

Attachments: As Stated

cc: Dave Carlson – NDEQ

Table 1			
Crow Butte Project Deepwell Operational Monitoring Continuous Data Record Statistics May 2000			
	Min.	Average	Max.
Injection Pressure	0.0	0.3	34.3
Flowrate (GPM)	0.0	45.9	97.0
Annulus Pressure (psi)	469.0	485.3	548.0
pH		7.4	
Gallons/Day (Gals.)		65891	
Total Gals. in Month			2042622

Table 2			
Crow Butte Project Deepwell Operational Monitoring Daily Manual Inspection Statistics May 2000			
	Min.	Average	Max.
Injection Pressure	0.0	0.0	0.0
Flowrate (GPM)	7.0	46.3	72.0
Annulus Pressure (psi)	475.0	490.0	520.0
Total Gals. in Month			2042622

Crow Butte Project
Deep Well Injection Data Record

Month May
Year 2000

	DAY SHIFT							EVENING SHIFT						
Date	Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F	Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F
1	07:16	von	16	15844	506	0	65°	2218	SH	63	42541	500	0	68°
2	07:10	von	11	11566	518	0	66°	2253	SH	23	28153	515	0	68°
3	07:27	von	32	14088	504	0	67°	2230	SH	57	56465	500	0	68°
4	07:15	von	28	18046	504	0	67°	2151	SH	15	35003	510	0	68°
5	0725	TC	15	6478	505	0	67°	1925	JE	7	14322	520	0	68°
6	0820	TC	23	11024	500	0	63°	1920	TC	70	25564	488	0	68°
7	0755	TC	30	17327	500	0	68°	1930	JE	43	55380	495	0	68°
8	0712	TC	57	22041	500	0	65°	1440	JE	18	62114	500	0	68°
9	0724	RR	28	9724	500	0	65°	2035	TC	67	35744	500	0	70
10	0722	RR	27	17415	496	0	68°	2225	SH	60	60101	490	0	68°
11	0750	RR	25	4776	486	0	68°	2204	SH	29	71254	490	0	68°
12	0724	RR	71	23666	475	0	68°	2300	SH	65	72846	490	0	68°
13	0745	RR	49	24816	450	0	68°	1930	JE	72	58465	500	0	68°
14	0725	JR	70	28368	476	0	68°	1952	TC	91	69210	480	0	68°
15	0730	JE	27	26496	480	0	68°	2000	TC	72	62871	480	0	68°
16	0705	JE	57	18659	480	0	68°	1954	TC	69	50688	480	0	68°
17	1014	SH	33	29600	490	0	68°	19:06	von	62	54552	486	0	67°
18	0853	SH	29	24982	496	0	66°	19:21	von	65	58797	484	0	68°
19	0904	SH	17	24322	490	0	68°	19:30	von	42	51644	485	0	68°
20	1045	SH	41	26553	490	0	65°	19:38	von	69	53141	485	0	68°
21	0816	RR	34	21924	451	0	65°	2007	TC	48	53260	480	0	68°
22	0655	JE	69	19112	430	0	68°	1925	TC	49	61280	480	0	68°
23	0765	JE	64	25418	490	0	68°	1935	TC	48	55469	480	0	68°
24	0707	RR	59	22999	482	0	65°	1936	TC	56	52923	480	0	68°
25	1125	SH	45	32585	485	0	68°	19:31	von	21	52987	485	0	69°
26	1141	SH	36	30520	487	0	68°	19:25	von	66	53830	485	0	69°
27	1030	SH	69	40419	485	0	70°	19:40	von	72	79388	484	0	69°
28	1012	SH	69	42079	485	0	69°	20:01	von	46	73745	485	0	70°
29	0810	TC	46	22738	480	0	69°	1990	PR	67	62530	455	0	70°
30	1440	TC	42	38558	480		70°	1920	PR	42	48046	483	0	70°
31	1930	TC	50	18228	480	0	70	1950	PR	31	51138	483	0	69°

Weekly Composite Sample

DATE	TIME	INITIALS

Weekly Composite Sample

DATE	TIME	INITIALS

CROW BUTTE PROJECT
DEEP WELL DATA ANALYSIS
May 2000

LABORATORY	ELEMENT				MONTHLY AVG.		LIMIT
		MAY4,2000	MAY 11,2000	May 18,2000	MAY 25,2000		
CROW BUTTE LAB	Na mg/l	1,248	3,997	4,956	1,854	3,014	40,000
CROW BUTTE LAB	SO4 mg/l	1,003	1,473	1,833	1,507	1,454	10,000
CROW BUTTE LAB	Cl mg/l	617	4,316	5,780	809	2,881	40,000
ENERGY LAB	As mg/l					<0.10	1
ENERGY LAB	Ba mg/l					<0.10	20
ENERGY LAB	Se mg/l					<0.10	2
CROW BUTTE LAB	V mg/l	1.1	7.8	13.0	3.6	6.4	50
CROW BUTTE LAB	U-nat mg/l	10.8	7.9	90.0	2.4	27.8	25
ENERGY LAB	Ra 226 pCI/l					1,260	5,000
CROW BUTTE LAB	Alkalinity mg/l	1,125	1,400	1,400	1,750	1,419	4,100
CROW BUTTE LAB	Ph STD UNIT	7.8	8.3	8.1	8.5	8.2	5.0-8.5
CROW BUTTE LAB	Temp (F)	68	68	67	68	68	NONE

Report Approved By:
Energy Lab - CRM for ELI
Crow Butte Lab - SM
Plant Manager - CRM

CROW BUTTE RESOURCES, INC.

86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169

(308) 665-2215
(308) 665-2341 – FAX

July 19, 2000

Nebraska Department of Environmental Quality
Ground Water Section
PO Box 98922
Lincoln, Nebraska 68509-8922

Attention: Mr. Dave Miesbach

Re: June **2000** Monthly Monitoring Report for Crow Butte Mine Class I Non-Hazardous Waste Injection Well, Permit Number NE0206369

Dear Mr. Miesbach:

Attached is the monthly monitoring report (MMR) data for the Class I Injection Well (Deep Disposal Well (DDW)) located at the Crow Butte Mine near Crawford, Nebraska. The MMR is submitted in accordance with Part II, B. of the referenced UIC permit.

Table 1 lists the operation statistics for the DDW continuous recording devices for the month. All the permit parameters were in compliance for the month. Table 2 lists the operating statistics based on the daily inspection readings. The process plant operators take the daily readings twice per day and a copy of the data recording sheet is shown on Table 3. A summary of the weekly grab sample assay results is given on Table 4.

If you have any questions or require any further information, please do not hesitate to call me at (308) 665-2215.

Sincerely,
CROW BUTTE RESOURCES, INC.

Michael Griffin
Manager of Environmental and Regulatory Affairs

Attachments: As Stated

cc: Dave Carlson – NDEQ

Table 1			
Crow Butte Project Deepwell Operational Monitoring Continuous Data Record Statistics June 2000			
	Min.	**Average**	**Max.**
Injection Pressure	0.0	10.9	116.3
Flowrate (GPM)	10.0	57.2	80.0
Annulus Pressure (psi)	471.0	486.5	507.0
pH		7.5	
Gallons/Day (Gals.)		81961	
Total Gals. in Month			2458828

Table 2			
Crow Butte Project Deepwell Operational Monitoring Daily Manual Inspection Statistics June 2000			
	Min.	**Average**	**Max.**
Injection Pressure	0.0	3.1	87.0
Flowrate (GPM)	23.0	56.2	74.0
Annulus Pressure (psi)	480.0	496.2	500.0
Total Gals. in Month			2458828

Crow Butte Project
Deep Well Injection Data Record

Month June
Year 2000

Date	DAY SHIFT Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F	EVENING SHIFT Time	Initials	Injection Flow	Daily Gallons	Annulus Pressure	Wellhead IJ Press	Temp F
1	0735	RC	23	20877	500	0	70°	1930	PR	40	51240	483	0	70°
2	07:19	von	47	18032	485	0	68°	2156	SH	68	64809	485	0	70°
3	07:40	von	67	30900	485	0	69°	0017	SH	34	247	490	0	70°
4	07:48	von	66	26705	485	0	69°	2211	SH	67	77122	490	0	70°
5	07:15	von	52	24824	485	0	68°	2014	SH	46	69663	490	0	70°
6	0712	RC	30	19636	490	0	70°	1945	PR	33	51570	493	0	70°
7	0715	RC	34	27905	495	0	70°	1926	PR	41	58356	493	0	70°
8	0748	RC	39	23379	495	0	70°	1930	PR	68	54850	498	0	70°
9	0725	RC	27	28311	498	0	70°	1947	PR	69	66536	496	0	70°
10	09:10	von	47	33032	496	0	70°	2257	SH	69	79680	496	0	72°
11	09:10	von	68	33071	494	0	70°	2220	SH	66	86109	495	0	71°
12	0907	E.D.	63	35612	495	0	70°	2240	SH	66	83271	500	0	71°
13	0500	RC	51	29201	488	0	70°	0800	TC	69	7947	500	0	70°
14	0716	RC	45	29629	500	0	70°	1920	TC	30	15647	500	0	70°
15	0655	RC	56	18324	500	0	70°	1951	E.D.	65	56153	484	0	70°
16	0725	RC	49	27500	500	0	70°	2130	E.D.	64	67294	481	0	70°
17	~~2088~~	SH	~~65~~	~~40447~~	500	0	70°	19:50	von	57	72468	495	0	70°
18	1213	SH	48	34538	490	0	70°	20:20	von	70	66300	495	0	71°
19	1000	SH	65	25500	495	0	70	20:10	von	74	60622	497	0	70°
20	1109	SH	36	39601	495	0	70	19:57	von	67	71626	496	0	70°
21	1017	SH	44	28002	495	0	70°	19:54	von	73	63457	495	0	70°
22	0711	PR	60	21712	452	0	70°	1920	RC	73	68470	500	0	70°
23	0715	PR	74	25059	486	82	70°	1915	RC	28	73756	500	0	70°
24	0725	PR	74	29040	484	87	70	2010	P.S.	67	74085	492	0	72°
25	1215	RC	65	44777	490	15	70°	1959	TC	30	22465	490	0	70°
26	0905	SH	65	32346	490	0	70°	19:23	von	65	70749	485	0	70°
27	0857	SH	64	33255	490	0	70°	20:05	von	72	74567	488	0	70°
28	1012	SH	45	37758	485	0	70°	19:57	von	65	68051	485	0	70°
29	1130	SH	30	41724	495	0	70°	2000	TC	62	69305	485	0	70°
30	0714	RC	24	28508	485	0	70°	1945	PR	66	66846	487	0	70°
31														

Weekly Composite Sample

DATE	TIME	INITIALS

Weekly Composite Sample

DATE	TIME	INITIALS

CROW BUTTE PROJECT
DEEP WELL DATA ANALYSIS
JUNE 2000

LABORATORY	ELEMENT					MONTHLY AVG.		LIMIT
		JUNE1,2000	JUNE8,2000	JUNE 15,2000	JUNE 22,2000	JUNE29,2000		
CROW BUTTE LAB	Na mg/l	1,760	3,717	5,430	2,568	2,541	3,203	40,000
CROW BUTTE LAB	SO4 mg/l	1,488	1,653	1,910	1,410	1,441	1,580	10,000
CROW BUTTE LAB	Cl mg/l	713	3,699	5,857	2,081	2,081	2,886	40,000
ENERGY LAB	As mg/l						<0.10	1
ENERGY LAB	Ba mg/l						<0.10	20
ENERGY LAB	Se mg/l						<0.10	2
CROW BUTTE LAB	V mg/l	3.8	8.2	11.0	5.6	5.2	6.8	50
CROW BUTTE LAB	U-nat mg/l	1.3	2.1	3.0	4.0	15.8	5.2	25
ENERGY LAB	Ra 226 pCI/l						1,240	5,000
CROW BUTTE LAB	Alk mg/l	1,575	1,500	1,550	1,450	1,575	1,530	4,100
CROW BUTTE LAB	Ph STD UNIT	8.5	8.4	8.3	8.3	8.3	8.3	5.0-8.5
CROW BUTTE LAB	Temp (F)	70	70	70	70	70	70	NONE

Report Approved By:
Energy Lab - CRM for ELI
Crow Butte Lab - SM
Plant Manager - CRM

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515
Billings • Casper • Gillette
Helena • Rapid City

LABORATORY ANALYSIS REPORT
CROW BUTTE RESOURCES

Sample ID:	Monthly Deep Well Composite
Sample Date:	June 2000
Sample Matrix:	Liquid, Water
Laboratory ID:	34000-1
Report Date:	July 14, 2000

Trace Metals	Method	Units	Reporting Limit	Results
Arsenic	EPA 200.7	mg/L	0.10	< 0.10
Barium	EPA 200.7	mg/L	0.10	< 0.10
Selenium	EPA 200.7	mg/L	0.10	< 0.10

Radiometrics				
Uranium	EPA 200.7	mg/L	1.0	< 1.0
Radium 226	EPA 903.0	pCi/L	0.2	1240
Radium Error Estimate ±				44.2

msj: r:\reports\clients2000\crow_butte(c)\liquid\mdwcomp\34000-1.xls

ELI

QUALITY ASSURANCE REPORT
CROW BUTTE RESOURCES

Laboratory ID Range: 34000-1
Report Date: July 14, 2000

Trace Metals	Method	RPD[1]	Spike[2]	Analyst	Date Analyzed
Arsenic	EPA 200.7	2.3	89	jal	07-06-00
Barium	EPA 200.7	2.2	90	jal	07-06-00
Selenium	EPA 200.7	3.1	97	jal	07-06-00

Signature _____

Radiometrics					
Uranium	EPA 200.7	2.0	88	jal	07-06-00
Radium 226	EPA 903.0	0.0	96	rs	07-12-00

Signature _____

NOTES:

(1) These values are an assessment of analytical precision. The acceptance range is 0-20% for sample results above 10 times the reporting limit. This range is not applicable to samples with results below 10 times the reporting limit.

(2) These values are an assessment of analytical accuracy. They are a percent recovery of the spike addition. ELI performs a matrix spike on 10 percent of all samples for each analytical method.

Report Approved By:

msj: r:\reports\clients2000\crow_butte(e)\liquid\qa\34000-1.xls

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515
Billings • Casper • Gillette
Helena • Rapid City

LABORATORY ANALYSIS REPORT
CROW BUTTE RESOURCES

Sample ID:	Monthly Deep Well Composite
Sample Date:	June 2000
Sample Matrix:	Liquid, Water
Laboratory ID:	34000-1
Report Date:	July 14, 2000

Trace Metals	Method	Units	Reporting Limit	Results
Arsenic	EPA 200.7	mg/L	0.10	< 0.10
Barium	EPA 200.7	mg/L	0.10	< 0.10
Selenium	EPA 200.7	mg/L	0.10	< 0.10

Trace Metals				
Cadmium	EPA 200.7	mg/L	0.0	< 0.01
Chromium	EPA 200.7	mg/L	0.1	< 0.05
Lead	EPA 200.7	mg/L	0.05	< 0.05
Mercury	EPA 200.8	mg/L	0.001	In Progress
Silver	EPA 200.7	mg/L	0.01	< 0.01

Radiometrics				
Uranium	EPA 200.7	mg/L	1.0	< 1.0
Radium 226	EPA 903.0	pCi/L	0.2	1240
Radium Error Estimate ±				44.2

msj: r:\reports\clients2000\crow_butte(c)\liquid\mdwcomp\34000-1.xls

Appendix G

Radon Release Calculations

First and Second Quarter, 2000

Radon Effluent Release Calculation (Production and Startup)

First Quarter 2000 Radon Release from Leaching Operations:

$$\left[\left(\frac{7.04E^{-4}\ \text{Curies}}{\text{meter}^3}\right)\times\left(\frac{16{,}629\ \text{liters}}{\text{min}}\right)\times(0.72)\times(91\ \text{days})\times(0.9959)\times\left(\frac{\text{meter}^3}{1000\ \text{liters}}\right)\times\left(\frac{24\ \text{hours}}{\text{day}}\right)\times\left(\frac{60\ \text{min}}{\text{hour}}\right)\right]=1{,}100\ \text{Curies}$$

Second Quarter 2000 Radon Release from Leaching Operations:

$$\left[\left(\frac{7.04E^{-4}\ \text{Curies}}{\text{meter}^3}\right)\times\left(\frac{16{,}345\ \text{liters}}{\text{min}}\right)\times(0.72)\times(91\ \text{days})\times(0.9882)\times\left(\frac{\text{meter}^3}{1000\ \text{liters}}\right)\times\left(\frac{24\ \text{hours}}{\text{day}}\right)\times\left(\frac{60\ \text{min}}{\text{hour}}\right)\right]=1{,}073\ \text{Curies}$$

Radon Release from Wellfield Startup:

$$\left[\left(\frac{7.04E^{-4}\text{Curies}}{\text{meter}^3}\right)\times(9.01\ \text{acres})\times\left(\frac{4074\ \text{meter}^2}{\text{acre}}\right)\times(1.52\ \text{meters})\times(0.29)\right]=11\ \text{Curies}$$

Total Estimated Radon Emissions from Leaching: 2,184 Curies

Radon Effluent Release Calculation (Restoration)

First Half 2000 Radon Release from Restoration:

$$(411{,}708{,}655 \text{ liters}) \times \left(\frac{0.697\ \mu\text{Ci}}{\text{liter}}\right) = 287 \text{ Curies (production potential)}$$

$$287 \text{ Curies} \times 0.25 = 72 \text{ Curies (25\% Wellfield Loss)}$$

$$(287 \text{ Curies} - 72 \text{ Curies}) \times 0.10 = 22 \text{ Curies (10\% Ion Exchange Loss)}$$

$$(88{,}718{,}885 \text{ liters}) \times \left(\frac{0.470\ \mu\text{Ci}}{\text{liter}}\right) = 42 \text{ Curies (100\% Reverse Osmosis Loss)}$$

Startup of additional restoration patterns:

$$\left[\left(\frac{7.04\text{E}^{-4}\text{Curies}}{\text{meter}^3}\right) \times (2.59 \text{ acres}) \times \left(\frac{4074 \text{ meter}^2}{\text{acre}}\right) \times (1.52 \text{ meters}) \times (0.29)\right] = 3 \text{ Curies}$$

Total Estimated Radon Emissions from Restoration: 139 Curies

Total Estimated Radon Emissions from Crow Butte Operations, 1st Half 2000: 2,323 Curies

Appendix H

Quarterly Pond Inspections

First and Second Quarter, 2000

CROW BUTTE RESOURCES, INC.

86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169

(308) 665-2215
(308) 665-2341 – FAX

TO: File
THROUGH: Chuck Miller
FROM: Rhonda Grantham
DATE: March 10, 2000
SUBJECT: First Quarter Visual Evaporation Pond Inspection

On March 6, 2000 the quarterly visual evaporation pond inspection was performed as required by License Condition No. 11.4 of SUA-1534. The R & D Evaporation Ponds and the Commercial Evaporation Ponds #1, #3, and #4 were all included in the inspection. All ponds are inspected on a daily basis.

1. No apparent settlement or erosion problems with dikes or slopes have occurred at the R & D Ponds. Other than small erosional gullies on the slopes of all of the Commercial Ponds, generally the pond slopes are in good condition. There is no evidence of new gopher activity on the pond slopes. No apparent settlement of dikes or slopes was evident at the Commercial Ponds.

2. The game proof fences and entrance gates at both sets of Ponds appear to be in good condition. The Radioactive Materials signs posted on the fences are visible and readable.

3. No pond or feed line seepage has been noted.

4. The standpipe underdrains of the R & D ponds remain at less than six inches and no sampling has been required. As per License Condition No.11.4, on a weekly basis, CBR samples any underdrain of the Commercial Ponds that contains six inches or more of fluid. The samples are analyzed for conductivity and if the sampling results are below the action level no further sampling is necessary. Currently seven of the underdrains are measured at a weekly frequency for conductivity. At no time during the first quarter, 2000, did the conductivity of the underdrains of the Commercial Ponds exceed the action level.

5. Except for the markers on Pond #4, the footage markers on all of the ponds are readable. All liners appear to be in good condition. However, a scrape mark was identified on the NE end of Pond #4 approximately two feet from the top of the pond. Upon examination, it was noted that although the liner was scuffed in that area it was not punctured through.

6. Inspections are performed on all of the ponds on a daily basis. Inspection forms were reviewed and are on file.

cc: Steve Collings
Steve Magnuson

CROW BUTTE RESOURCES, INC.

86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169

(308) 665-2215
(308) 665-2341 – FAX

TO: File
THROUGH: Chuck Miller CRM
Mike Griffin MG
FROM: Rhonda Grantham RG
DATE: July 12, 2000
SUBJECT: Second Quarter Visual Evaporation Pond Inspection

On June 29, 2000 the quarterly visual evaporation pond inspection was performed as required by License Condition No. 11.4 of SUA-1534. The R & D Evaporation Ponds and the Commercial Evaporation Ponds #1, #3, and #4 were all included in the inspection. All ponds are inspected on a daily basis.

1. No apparent settlement or erosion problems with dikes or slopes have occurred at the R & D Ponds. As shown on the attached map of the Commercial Ponds, erosional gullies and rills were identified on the majority of the slopes of all of the Commercial Ponds. Although poisoning activities conducted since the last quarterly inspection appears to have slowed down the spread of the gophers, there was some new gopher activity discovered on the pond slopes, as well as several holes as shown on the map. In addition, a badger hole that was located in April on the south slope of Pond #1 has not yet been filled. No apparent settlement of dikes or slopes was evident at the Commercial Ponds.

2. The game proof fences and entrance gates at both sets of Ponds appear to be in good condition. With three exceptions, the Radioactive Materials signs posted on the fences are visible and readable. Three signs on the east side of Pond #1 need to be replaced.

3. No pond or feed line seepage has been noted. Since the water level of Pond #1 has been drawn down, the cascading water action warrants the installation of a discharge hose on the feed line.

4. The standpipe underdrains of the R & D ponds remain at less than six inches and no sampling has been required. As per License Condition #11.4, on a weekly basis, CBR samples any underdrain of the Commercial Ponds that contains six inches or more of fluid. The samples are analyzed for conductivity and if the sampling results are below the action level no further sampling is necessary. Currently ten of the underdrains are measured at a weekly frequency for conductivity.

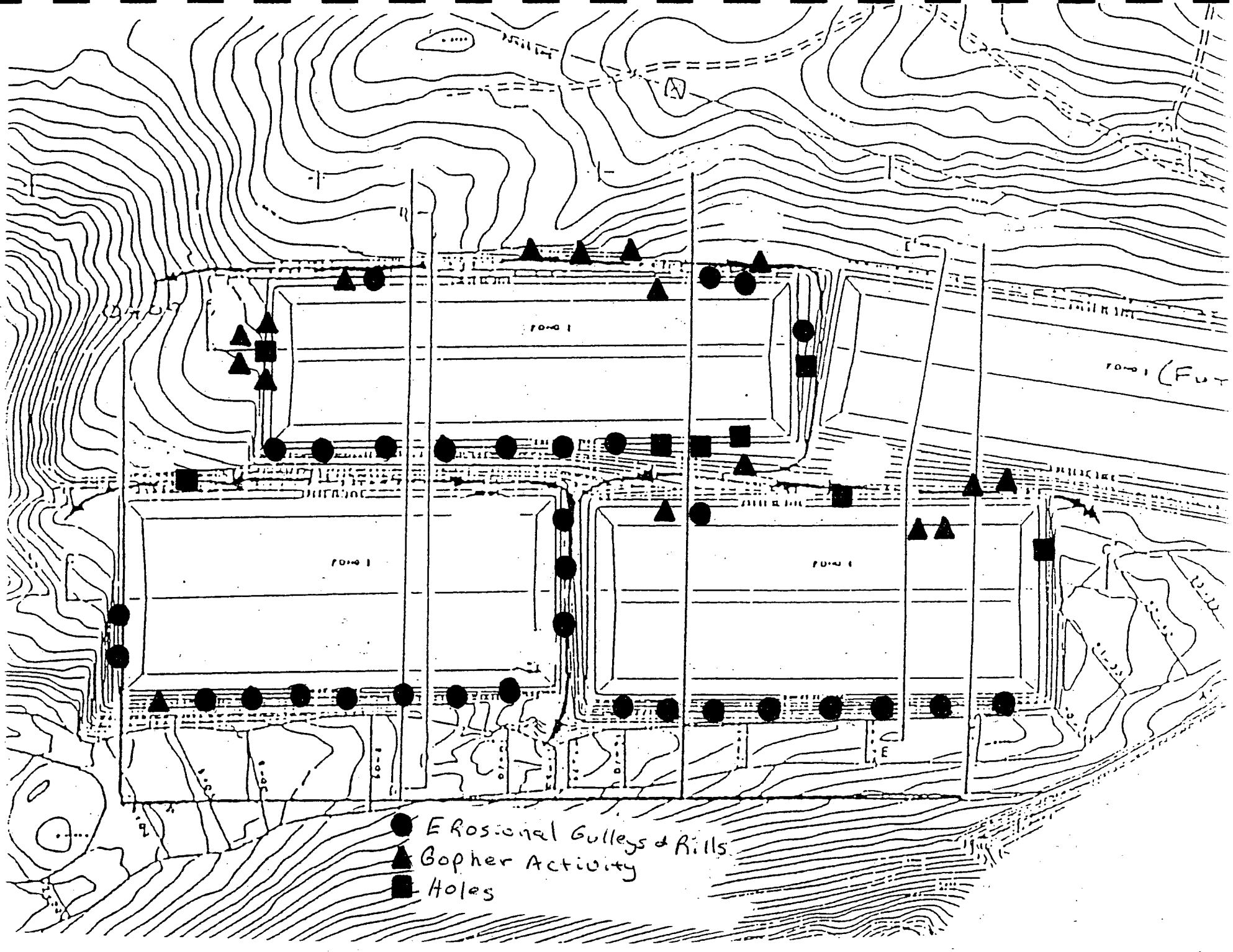
   During the second quarter, 2000 conductivity measurements and water level measurements of three of the underdrains of the Commercial Ponds indicated potential liner leaks. The SW underdrain of Pond #1 and the NE and NW underdrains of Pond #4 showed rapid increases in the conductivities and in the water levels during routine weekly monitoring. In each instance, after the increases occurred, the levels of the pond contents were lowered and the liners were examined for damage. Agency reporting was made and increased monitoring was initiated. Currently, the sources of the leaks are undetermined.

5. Footage markers on all of the ponds are readable, with the exception of the interval between the top of the Pond slope and the 13-foot level on Pond #1. Visually, all liners appear to be in good condition.

6. Other items that were identified during the inspection included the absence of safety ropes at the centers of the pond ends, that the safety rope in the NE corner of Pond #1 is too short since the pond level has been lowered, that there is a great deal of miscellaneous materials and trash lying around all of the ponds, that the boat is being stored on the pond liner, and that the truck discharge line into Pond #3 needs to be extended or a hose needs to be placed on the end to reach the water line.

7. Inspections are performed on all of the ponds on a daily basis. Inspection forms were reviewed and are on file.

cc: Steve Collings
Steve Magnuson


Erosional Gulleys & Rills
Gopher Activity
Holes

Appendix I

Monthly Restoration Reports

First and Second Quarter, 2000

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

JANUARY 2000

MINE UNIT 2

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment	x		
d. Wellfield Recirculation		x	
e. Other (explain):		x	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P83, P103, P115, P121, P127, P210, I147P, I175P

Mine Unit 2 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
i147p	04-Jan-00	2.3	0.2	—	—	—	—	—	—	2230
i147p	10-Jan-00	2.1	0.1	—	—	—	—	—	—	2230
i147p	18-Jan-00	2.4	<0.1	—	—	—	—	—	—	2190
i147p	25-Jan-00	2.7	0.1	—	—	—	—	—	—	2280
i175p	04-Jan-00	1	0.8	—	—	—	—	—	—	1427
i175p	10-Jan-00	1	0.7	—	—	—	—	—	—	1317
i175p	18-Jan-00	1.1	0.6	—	—	—	—	—	—	1287
i175p	25-Jan-00	1	0.6	—	—	—	—	—	—	1263
p103	10-Jan-00	0.3	0.7	—	—	—	—	—	—	784
p103	18-Jan-00	0.6	0.7	—	—	—	—	—	—	842
p103	25-Jan-00	0.8	0.8	—	—	—	—	—	—	1052
p115	04-Jan-00	1.5	1.5	—	—	—	—	—	—	992
p115	10-Jan-00	1.2	1.9	—	—	—	—	—	—	862
p115	17-Jan-00	1.1	1.9	—	—	—	—	—	—	802
p115	24-Jan-00	1.1	1.9	—	—	—	—	—	—	750
p121	04-Jan-00	2.3	0.9	—	—	—	—	—	—	1525
p121	10-Jan-00	2.2	1.1	—	—	—	—	—	—	1306
p121	17-Jan-00	2.2	1	—	—	—	—	—	—	1229
p121	24-Jan-00	2.2	0.9	—	—	—	—	—	—	1151
p127	04-Jan-00	184	0.4	—	—	—	—	—	—	2660
p127	10-Jan-00	18.4	0.2	—	—	—	—	—	—	2570
p127	17-Jan-00	18.5	0.1	—	—	—	—	—	—	2530
p127	24-Jan-00	18	0.2	—	—	—	—	—	—	1560
p210	04-Jan-00	5.4	0.6	—	—	—	—	—	—	3360
p210	10-Jan-00	4.9	0.4	—	—	—	—	—	—	3180
p210	18-Jan-00	5.4	0.1	—	—	—	—	—	—	3250
p210	25-Jan-00	5.2	0.2	—	—	—	—	—	—	3200
p83	04-Jan-00	0.9	1.3	—	—	—	—	—	—	1427
p83	10-Jan-00	0.9	1.3	—	—	—	—	—	—	1363

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

FEBRUARY 2000

MINE UNIT 2

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment	x		
d. Wellfield Recirculation		x	
e. Other (explain):		x	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P90, P92, P103, P115, P121, P127, P128, P129, P210, I133P, and I147P.

CRM.

Mine Unit 2 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
i133p	08-Feb-00	2.6	1.5	—	—	—	—	—	—	1300
i133p	15-Feb-00	2.6	1.2	—	—	—	—	—	—	1309
i133p	22-Feb-00	2.2	1	—	—	—	—	—	—	1290
i133p	29-Feb-00	2.2	1	—	—	—	—	—	—	1364
i147p	01-Feb-00	2.9	<.1	—	—	—	—	—	—	2220
i147p	08-Feb-00	3	<.1	—	—	—	—	—	—	2190
i147p	15-Feb-00	3.1	0.1	—	—	—	—	—	—	2220
i147p	22-Feb-00	3.2	0.1	—	—	—	—	—	—	2290
i147p	29-Feb-00	3.3	0	—	—	—	—	—	—	2330
p103	01-Feb-00	0.5	0.7	—	—	—	—	—	—	1049
p103	08-Feb-00	0.5	0.7	—	—	—	—	—	—	969
p103	10-Feb-00	0.5	0.7	—	—	—	—	—	—	969
p115	01-Feb-00	1.1	1.8	—	—	—	—	—	—	708
p115	08-Feb-00	0.6	1.8	—	—	—	—	—	—	709
p121	01-Feb-00	2.2	0.8	—	—	—	—	—	—	1028
p121	08-Feb-00	2	0.6	—	—	—	—	—	—	1060
p121	15-Feb-00	2.5	0.6	—	—	—	—	—	—	1099
p121	22-Feb-00	2.4	0.6	—	—	—	—	—	—	1081
p121	29-Feb-00	2.3	0.7	—	—	—	—	—	—	1054
p127	01-Feb-00	17.9	<0.1	—	—	—	—	—	—	2520
p127	08-Feb-00	18.7	0	—	—	—	—	—	—	2580
p127	15-Feb-00	19.6	0.1	—	—	—	—	—	—	2610
p127	22-Feb-00	20.2	0.1	—	—	—	—	—	—	2670
p127	29-Feb-00	20.7	0	—	—	—	—	—	—	2620
p128	15-Feb-00	5.3	0.6	—	—	—	—	—	—	1727
p128	22-Feb-00	5.2	0.7	—	—	—	—	—	—	1578
p128	29-Feb-00	4 2	0.6	—	—	—	—	—	—	1385
p129	15-Feb-00	43.3	0.6	—	—	—	—	—	—	5090
p129	22-Feb-00	30.7	0.8	—	—	—	—	—	—	4310
p129	29-Feb-00	24	1	—	—	—	—	—	—	3780
p210	01-Feb-00	5.3	<0.1	—	—	—	—	—	—	3250
p210	08-Feb-00	5.4	0.1	—	—	—	—	—	—	3180
p210	15-Feb-00	5 4	0.1	—	—	—	—	—	—	3090
p210	22-Feb-00	5.1	0.2	—	—	—	—	—	—	3040
p210	29-Feb-00	5.1	0	—	—	—	—	—	—	3060
p90	22-Feb-00	0.9	0.8	—	—	—	—	—	—	1211
p90	29-Feb-00	1.6	0.6	—	—	—	—	—	—	1569
p92	08-Feb-00	1.4	0.4	—	—	—	—	—	—	1245
p92	11-Feb-00	1.4	0.4	—	—	—	—	—	—	1245

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

MARCH 2000

MINE UNIT 2

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment	x		
d. Wellfield Recirculation		x	
e. Other (explain):		x	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P121, P127, P128, P129, P210, I133P, I147P, and I160P.

CRM.

Mine Unit 2 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
i133p	07-Mar-00	2	1	—	—	—	—	—	—	1421
i133p	14-Mar-00	1.7	1	—	—	—	—	—	—	1437
i133p	22-Mar-00	2.1	1.2	—	—	—	—	—	—	1459
i133p	28-Mar-00	2.1	1	—	—	—	—	—	—	1527
i147p	07-Mar-00	3.6	<.1	—	—	—	—	—	—	2360
i147p	14-Mar-00	3.9	0.1	—	—	—	—	—	—	2400
i147p	22-Mar-00	4.7	0.2	—	—	—	—	—	—	2410
i147p	28-Mar-00	5.3	0.2	—	—	—	—	—	—	2530
i160p	02-Mar-00	0.8	0	—	—	—	—	—	—	1625
i160p	02-Mar-00	0.5	0	—	—	—	—	—	—	1903
i160p	02-Mar-00	0.8	0	—	—	—	—	—	—	2030
i160p	02-Mar-00	0.9	0.1	—	—	—	—	—	—	2070
p121	02-Mar-00	2.3	0.7	—	—	—	—	—	—	1054
p127	07-Mar-00	20.6	0	—	—	—	—	—	—	2510
p127	14-Mar-00	21.1	0.1	—	—	—	—	—	—	2510
p127	22-Mar-00	24.5	0.2	—	—	—	—	—	—	2690
p127	28-Mar-00	25.6	0.2	—	—	—	—	—	—	2730
p128	07-Mar-00	3.6	0.6	—	—	—	—	—	—	1213
p128	14-Mar-00	2.7	0.6	—	—	—	—	—	—	1084
p128	22-Mar-00	3.4	0.6	—	—	—	—	—	—	1134
p128	28-Mar-00	3	0.5	—	—	—	—	—	—	1181
p129	07-Mar-00	20.8	1	—	—	—	—	—	—	3460
p129	14-Mar-00	16.6	1	—	—	—	—	—	—	2930
p129	22-Mar-00	13.9	1.3	—	—	—	—	—	—	2520
p129	28-Mar-00	12.1	1.4	—	—	—	—	—	—	2340
p210	07-Mar-00	4.8	<0.1	—	—	—	—	—	—	3010
p210	14-Mar-00	4.6	0.1	—	—	—	—	—	—	2930
p210	22-Mar-00	4.9	0.2	—	—	—	—	—	—	2960
p210	28-Mar-00	4.7	0.2	—	—	—	—	—	—	2960

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

APRIL 2000

MINE UNIT 2

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment	x		
d. Wellfield Recirculation		x	
e. Other (explain):	x		RO System shut-in 4/16/00 for trunkline repair

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P127, P128, P129, P210, I133P, I147P, I160P

CKM

Mine Unit 2 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
i133p	04-Apr-00	1.7	1.2	—	—	—	—	—	—	1538
i133p	11-Apr-00	1.8	—	—	—	—	—	—	—	1498
i147p	04-Apr-00	5.4	0.1	—	—	—	—	—	—	2580
i147p	11-Apr-00	5.4	—	—	—	—	—	—	—	2610
i160p	04-Apr-00	0.6	0.2	—	—	—	—	—	—	2100
i160p	11-Apr-00	0.6	—	—	—	—	—	—	—	2170
p127	04-Apr-00	25.4	0.3	—	—	—	—	—	—	2730
p127	11-Apr-00	25.2	—	—	—	—	—	—	—	2670
p128	04-Apr-00	33	0.7	—	—	—	—	—	—	1226
p128	11-Apr-00	3.2	—	—	—	—	—	—	—	1237
p129	04-Apr-00	9.8	1.3	—	—	—	—	—	—	2160
p129	11-Apr-00	9.1	—	—	—	—	—	—	—	2090
p210	04-Apr-00	4.5	0.3	—	—	—	—	—	—	2900
p210	11-Apr-00	4.4	—	—	—	—	—	—	—	2900

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

MAY 2000

MINE UNIT 2

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment	x		
d. Wellfield Recirculation		x	
e. Other (explain):	x		RO System re-started 5/10/00 after trunkline repair and testing

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P127, P128, P129, P210, I133P, I147P, and I160P.

Mine Unit 2 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
i133p	16-May-00	1.5	1.3	—	—	—	—	—	—	1314
i133p	23-May-00	1.7	—	—	—	—	—	—	—	1346
i133p	31-May-00	1.9	1.3	—	—	—	—	—	—	1407
i147p	16-May-00	5.5	0.3	—	—	—	—	—	—	2770
i147p	23-May-00	5.8	—	—	—	—	—	—	—	2490
i147p	31-May-00	6.2	0.1	—	—	—	—	—	—	2600
i160p	16-May-00	0.4	0.2	—	—	—	—	—	—	2070
i160p	23-May-00	1	—	—	—	—	—	—	—	2110
i160p	31-May-00	0.9	0.1	—	—	—	—	—	—	2170
p127	16-May-00	30	0.2	—	—	—	—	—	—	3090
p127	23-May-00	25.5	—	—	—	—	—	—	—	2870
p127	31-May-00	23.6	0.1	—	—	—	—	—	—	2740
p128	16-May-00	3.3	0.3	—	—	—	—	—	—	1458
p128	23-May-00	3.3	—	—	—	—	—	—	—	1331
p128	31-May-00	3.5	0.4	—	—	—	—	—	—	1284
p129	16-May-00	9.7	0.8	—	—	—	—	—	—	2440
p129	23-May-00	8.4	—	—	—	—	—	—	—	2140
p129	31-May-00	8.3	1	—	—	—	—	—	—	2070
p210	16-May-00	4.1	0.3	—	—	—	—	—	—	2880
p210	23-May-00	4.4	—	—	—	—	—	—	—	2820
p210	31-May-00	4.6	0.1	—	—	—	—	—	—	2770

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

JUNE 2000

MINE UNIT 2

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment	x		
d. Wellfield Recirculation		x	
e. Other (explain):		x	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P97, P127, P128, P129, P210, I133P, I147P, and I160P.

CRPL

Mine Unit 2 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
i133p	6-Jun-00	1.9	1.3	—	—	—	—	—	—	1393
i133p	13-Jun-00	1.9	—	—	—	—	—	—	—	1397
i133p	20-Jun-00	1.9	1.4	—	—	—	—	—	—	1428
i133p	27-Jun-00	1.9	—	—	—	—	—	—	—	1372
i147p	6-Jun-00	6.2	0.3	—	—	—	—	—	—	2630
i147p	13-Jun-00	6.2	—	—	—	—	—	—	—	2590
i147p	20-Jun-00	6.2	0.2	—	—	—	—	—	—	2590
i147p	27-Jun-00	6.2	—	—	—	—	—	—	—	2570
i160p	6-Jun-00	0.9	0.2	—	—	—	—	—	—	2150
i160p	13-Jun-00	0.9	—	—	—	—	—	—	—	2220
i160p	20-Jun-00	0.9	0	—	—	—	—	—	—	2190
i160p	27-Jun-00	0.9	—	—	—	—	—	—	—	2190
p127	6-Jun-00	23.6	0	—	—	—	—	—	—	2640
p127	13-Jun-00	23.6	—	—	—	—	—	—	—	2580
p127	20-Jun-00	23.6	0	—	—	—	—	—	—	2430
p127	27-Jun-00	23.6	—	—	—	—	—	—	—	2390
p128	6-Jun-00	3.5	0.2	—	—	—	—	—	—	1228
p128	13-Jun-00	3.5	—	—	—	—	—	—	—	1162
p128	20-Jun-00	3.5	0.02	—	—	—	—	—	—	1113
P128	23-Jun-00	2.9	0.2	—	—	—	—	—	—	1113
p129	6-Jun-00	8.3	0.7	—	—	—	—	—	—	1947
p129	13-Jun-00	8.3	—	—	—	—	—	—	—	1772
p129	20-Jun-00	8.3	0.7	—	—	—	—	—	—	1629
p129	27-Jun-00	8.3	—	—	—	—	—	—	—	1559
p210	6-Jun-00	4.6	0.2	—	—	—	—	—	—	2850
p210	13-Jun-00	4.6	—	—	—	—	—	—	—	2810
p210	20-Jun-00	4.6	0.2	—	—	—	—	—	—	2690
p210	27-Jun-00	4.6	—	—	—	—	—	—	—	2700
p97	27-Jun-00	5.7	—	—	—	—	—	—	—	1649

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

JANUARY 2000

MINE UNIT 3

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment		x	
d. Wellfield Recirculation	x		
e. Other (explain):		x	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P211, P213, P216, P219, P223, P226, P228, P230, P232, P233, P241, P244, P246, P248, P250, I307P

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
I307P	10-Jan-00	6.1	0.8	-	-	-	-	-	-	5040
I307P	18-Jan-00	5.6	0.9	-	-	-	-	-	-	4980
I307P	25-Jan-00	5	1	-	-	-	-	-	-	5010
P211	25-Jan-00	24.1	0.6	-	-	-	-	-	-	4890
P213	4-Jan-00	13.7	0.5	-	-	-	-	-	-	5130
P213	10-Jan-00	11.9	0.4	-	-	-	-	-	-	5010
P213	18-Jan-00	10.8	0.6	-	-	-	-	-	-	4950
P213	25-Jan-00	10.3	0.8	-	-	-	-	-	-	5050
P216	25-Jan-00	25.6	1	-	-	-	-	-	-	5420
P219	4-Jan-00	25.9	0.4	-	-	-	-	-	-	5170
P219	10-Jan-00	23.4	0.3	-	-	-	-	-	-	5070
P219	18-Jan-00	20.1	0.4	-	-	-	-	-	-	4980
P219	25-Jan-00	19.1	0.7	-	-	-	-	-	-	5000
P223	4-Jan-00	18.4	0.5	-	-	-	-	-	-	4590
P223	10-Jan-00	16.8	0.4	-	-	-	-	-	-	4550
P223	18-Jan-00	16.4	0.4	-	-	-	-	-	-	4560
P223	25-Jan-00	16	0.8	-	-	-	-	-	-	4560
P226	4-Jan-00	27.8	0.4	-	-	-	-	-	-	5110
P226	10-Jan-00	27.4	0.3	-	-	-	-	-	-	5030
P226	18-Jan-00	26.8	0.6	-	-	-	-	-	-	5020
P226	25-Jan-00	25.9	0.8	-	-	-	-	-	-	5010
P228	4-Jan-00	18.9	0.4	-	-	-	-	-	-	5310
P228	10-Jan-00	19.2	0.4	-	-	-	-	-	-	5240
P228	18-Jan-00	19.8	0.7	-	-	-	-	-	-	5230
P228	25-Jan-00	18.9	0.8	-	-	-	-	-	-	5190
P230	25-Jan-00	9.1	0.7	-	-	-	-	-	-	4480
P232	4-Jan-00	20	0.6	-	-	-	-	-	-	5130
P232	18-Jan-00	17.9	0.6	-	-	-	-	-	-	5000
P232	25-Jan-00	18.4	0.8	-	-	-	-	-	-	4910
P233	4-Jan-00	23	0.6	-	-	-	-	-	-	5170
P233	10-Jan-00	19.4	0.4	-	-	-	-	-	-	5090
P233	18-Jan-00	17.8	0.7	-	-	-	-	-	-	4960
P233	25-Jan-00	15.7	0.8	-	-	-	-	-	-	4960
P241	4-Jan-00	24.7	0.2	-	-	-	-	-	-	4750
P241	10-Jan-00	21.6	0.1	-	-	-	-	-	-	4600
P241	18-Jan-00	21.9	0.3	-	-	-	-	-	-	4610
P241	25-Jan-00	20.9	0.4	-	-	-	-	-	-	4670
P244	4-Jan-00	13.1	1.3	-	-	-	-	-	-	5000
P244	10-Jan-00	12.2	1.2	-	-	-	-	-	-	4890
P244	18-Jan-00	12.4	1.4	-	-	-	-	-	-	4940
P244	25-Jan-00	11.4	1.4	-	-	-	-	-	-	4860
P246	4-Jan-00	8.3	1	-	-	-	-	-	-	4980
P246	10-Jan-00	7.1	1	-	-	-	-	-	-	4840
P246	18-Jan-00	8.1	1.1	-	-	-	-	-	-	4920
P246	25-Jan-00	8.4	1.2	-	-	-	-	-	-	4910
P248	4-Jan-00	-	0.7	-	-	-	-	-	-	4060
P248	10-Jan-00	18.3	0.8	-	-	-	-	-	-	4110
P248	18-Jan-00	18.4	0.8	-	-	-	-	-	-	4180
P248	25-Jan-00	17.4	1	-	-	-	-	-	-	4250
P250	4-Jan-00	25.3	0.6	-	-	-	-	-	-	5000
P250	10-Jan-00	22.9	0.6	-	-	-	-	-	-	4940
P250	18-Jan-00	21.4	0.7	-	-	-	-	-	-	5010
P250	25-Jan-00	19.8	0.9	-	-	-	-	-	-	4960

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

FEBRUARY 2000

MINE UNIT 3

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment		x	
d. Wellfield Recirculation	x		
e. Other (explain):		x	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P211, P213, P216, P218, P219, P223, P226, P228, P229, P230, P232, P233, P241, P244, P246, P248, P250, I307P

CRM

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
I278P	01-Feb-00	44.8	0.6	-	-	-	-	-	-	5160
I278P	08-Feb-00	41.5	0.9	-	-	-	-	-	-	5090
I278P	15-Feb-00	36.6	0.8	-	-	-	-	-	-	5100
I278P	22-Feb-00	35.2	0.8	-	-	-	-	-	-	-
I278P	29-Feb-00	33.1	0.9	-	-	-	-	-	-	5040
I307P	01-Feb-00	4.3	0.9	-	-	-	-	-	-	5040
I307P	08-Feb-00	3.6	0.9	-	-	-	-	-	-	5010
I307P	15-Feb-00	3.4	1	-	-	-	-	-	-	4990
I307P	22-Feb-00	3.1	0.9	-	-	-	-	-	-	4910
I307P	29-Feb-00	3.2	1	-	-	-	-	-	-	4960
P211	01-Feb-00	20.1	0.7	-	-	-	-	-	-	5000
P211	08-Feb-00	21.9	0.9	-	-	-	-	-	-	4940
P211	15-Feb-00	20.6	0.8	-	-	-	-	-	-	4940
P211	22-Feb-00	19.8	0.8	-	-	-	-	-	-	4920
P211	27-Feb-00	18.1	1	-	-	-	-	-	-	4880
P213	01-Feb-00	9.2	0.6	-	-	-	-	-	-	4980
P213	08-Feb-00	8.4	0.4	-	-	-	-	-	-	5000
P213	15-Feb-00	8.4	0.6	-	-	-	-	-	-	5130
P213	22-Feb-00	7.8	0.4	-	-	-	-	-	-	4940
P213	29-Feb-00	7.9	0.9	-	-	-	-	-	-	5010
P216	01-Feb-00	18.5	1	-	-	-	-	-	-	5270
P216	08-Feb-00	16.8	0.8	-	-	-	-	-	-	5250
P216	15-Feb-00	15	1	-	-	-	-	-	-	5170
P216	22-Feb-00	14.5	0.9	-	-	-	-	-	-	5150
P216	27-Feb-00	14.4	0.9	-	-	-	-	-	-	5230
P218	15-Feb-00	16.7	0.5	-	-	-	-	-	-	4940
P218	22-Feb-00	16.1	0.5	-	-	-	-	-	-	4970
P218	27-Feb-00	15.4	0.4	-	-	-	-	-	-	4940
P219	01-Feb-00	18.1	-	-	-	-	-	-	-	4970
P219	08-Feb-00	17.5	0.4	-	-	-	-	-	-	4970
P219	15-Feb-00	16.4	0.6	-	-	-	-	-	-	4960
P219	22-Feb-00	15.9	0.6	-	-	-	-	-	-	4910
P219	27-Feb-00	15.5	0.7	-	-	-	-	-	-	4950
P223	01-Feb-00	16.1	0.6	-	-	-	-	-	-	4550
P223	08-Feb-00	15.7	0.5	-	-	-	-	-	-	4570
P223	15-Feb-00	15.3	0.4	-	-	-	-	-	-	4520
P223	22-Feb-00	15.2	0.6	-	-	-	-	-	-	4560
P223	27-Feb-00	15.2	0.6	-	-	-	-	-	-	4580
P226	01-Feb-00	26.5	0.6	-	-	-	-	-	-	4990
P226	08-Feb-00	27.3	0.6	-	-	-	-	-	-	5030
P226	15-Feb-00	26.3	0.3	-	-	-	-	-	-	4960
P226	22-Feb-00	27	0.4	-	-	-	-	-	-	4960
P226	27-Feb-00	27.6	0.6	-	-	-	-	-	-	5020
P228	01-Feb-00	19	0.7	-	-	-	-	-	-	5200
P228	08-Feb-00	19.4	0.7	-	-	-	-	-	-	5210
P228	15-Feb-00	18.9	0.6	-	-	-	-	-	-	5210
P228	22-Feb-00	19.4	0.8	-	-	-	-	-	-	5080
P228	27-Feb-00	19	0.8	-	-	-	-	-	-	5240
P229	08-Feb-00	8.8	0.3	-	-	-	-	-	-	5010
P229	15-Feb-00	7.6	0.2	-	-	-	-	-	-	4920
P229	22-Feb-00	7.2	0.4	-	-	-	-	-	-	4960

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total CO3	PH	Ca	Na	Cl	SO4	Cond
P229	27-Feb-00	7.2	0.3	-	-	-	-	-	-	4950
P230	01-Feb-00	8.7	0.6	-	-	-	-	-	-	4640
P230	08-Feb-00	8.6	0.4	-	-	-	-	-	-	4600
P230	15-Feb-00	8.2	0.7	-	-	-	-	-	-	4610
P230	22-Feb-00	8	0.6	-	-	-	-	-	-	4570
P230	27-Feb-00	7.7	0.7	-	-	-	-	-	-	4610
P232	01-Feb-00	17.7	0.8	-	-	-	-	-	-	5020
P232	08-Feb-00	15.9	0.8	-	-	-	-	-	-	4990
P232	15-Feb-00	15.4	1	-	-	-	-	-	-	4940
P232	22-Feb-00	15.1	0.7	-	-	-	-	-	-	4940
P232	27-Feb-00	14.8	1	-	-	-	-	-	-	5110
P233	01-Feb-00	15.3	0.8	-	-	-	-	-	-	4970
P233	08-Feb-00	15.3	0.7	-	-	-	-	-	-	5220
P233	15-Feb-00	14.2	1	-	-	-	-	-	-	4960
P233	22-Feb-00	14	0.7	-	-	-	-	-	-	4930
P233	27-Feb-00	13.4	0.9	-	-	-	-	-	-	4920
P241	01-Feb-00	20.9	0.3	-	-	-	-	-	-	4670
P241	08-Feb-00	21.7	0.3	-	-	-	-	-	-	4720
P241	15-Feb-00	22.6	0.2	-	-	-	-	-	-	4730
P241	22-Feb-00	23.5	0.2	-	-	-	-	-	-	4760
P241	27-Feb-00	23.8	0.7	-	-	-	-	-	-	4790
P244	01-Feb-00	11	1.3	-	-	-	-	-	-	4880
P244	08-Feb-00	10.7	1.6	-	-	-	-	-	-	4920
P244	15-Feb-00	10.3	1.4	-	-	-	-	-	-	4880
P244	22-Feb-00	10.1	1.3	-	-	-	-	-	-	4960
P244	27-Feb-00	10.1	1.8	-	-	-	-	-	-	4960
P246	01-Feb-00	5.9	1	-	-	-	-	-	-	4980
P246	08-Feb-00	6.5	1.2	-	-	-	-	-	-	4990
P246	15-Feb-00	6.4	1.1	-	-	-	-	-	-	4900
P246	22-Feb-00	6.5	1.1	-	-	-	-	-	-	4930
P246	27-Feb-00	6.7	1.5	-	-	-	-	-	-	5050
P248	01-Feb-00	17	0.8	-	-	-	-	-	-	4320
P248	08-Feb-00	17.3	0.9	-	-	-	-	-	-	4360
P248	15-Feb-00	16.6	0.9	-	-	-	-	-	-	4330
P248	22-Feb-00	-	0.7	-	-	-	-	-	-	-
P248	27-Feb-00	16.3	1	-	-	-	-	-	-	4250
P250	01-Feb-00	19	0.6	-	-	-	-	-	-	4970
P250	08-Feb-00	20	0.6	-	-	-	-	-	-	4960
P250	15-Feb-00	18.9	0.9	-	-	-	-	-	-	4930
P250	22-Feb-00	18.7	0.9	-	-	-	-	-	-	4920
P250	27-Feb-00	18.7	0.9	-	-	-	-	-	-	4980

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

MARCH 2000

MINE UNIT 3

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment		x	
d. Wellfield Recirculation	x		
e. Other (explain):		x	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P211, P213, P216, P218, P219, P223, P226, P228, P229, P230, P232, P233, P241, P244, P246, P248, P250, I278P, I307P

cm.

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total CO3	PH	Ca	Na	Cl	SO4	Cond
I278P	07-Mar-00	32.5	0.8	-	-	-	-	-	-	5100
I278P	14-Mar-00	29.4	0.9	-	-	-	-	-	-	5040
I278P	22-Mar-00	28.4	0.5	-	-	-	-	-	-	4970
I278P	28-Mar-00	27.8	0.9	-	-	-	-	-	-	5000
I307P	07-Mar-00	3.2	0.8	-	-	-	-	-	-	5010
I307P	14-Mar-00	3	0.9	-	-	-	-	-	-	4920
I307P	22-Mar-00	3.6	0.8	-	-	-	-	-	-	4970
I307P	28-Mar-00	4.6	0.7	-	-	-	-	-	-	4960
P211	07-Mar-00	18.4	0.9	-	-	-	-	-	-	4910
P211	14-Mar-00	18	0.9	-	-	-	-	-	-	4850
P211	22-Mar-00	19	0.8	-	-	-	-	-	-	4940
P211	28-Mar-00	16.5	0.9	-	-	-	-	-	-	4980
P213	07-Mar-00	8	0.6	-	-	-	-	-	-	4990
P213	14-Mar-00	7.3	0.6	-	-	-	-	-	-	4950
P213	22-Mar-00	8.4	0.4	-	-	-	-	-	-	5010
P213	28-Mar-00	8.4	0.6	-	-	-	-	-	-	5000
P216	07-Mar-00	13.9	1.2	-	-	-	-	-	-	5210
P216	14-Mar-00	13.6	0.9	-	-	-	-	-	-	5180
P216	22-Mar-00	14.3	1	-	-	-	-	-	-	5190
P216	28-Mar-00	14.6	1	-	-	-	-	-	-	5170
P218	07-Mar-00	15.4	0.7	-	-	-	-	-	-	4990
P218	14-Mar-00	14.3	0.6	-	-	-	-	-	-	4910
P218	22-Mar-00	14.6	0.3	-	-	-	-	-	-	4940
P218	28-Mar-00	15.1	0.4	-	-	-	-	-	-	5100
P219	07-Mar-00	16	0.7	-	-	-	-	-	-	4980
P219	14-Mar-00	14.8	0.8	-	-	-	-	-	-	4960
P219	22-Mar-00	14.9	0.4	-	-	-	-	-	-	4880
P219	28-Mar-00	14.1	0.6	-	-	-	-	-	-	4970
P223	07-Mar-00	15.2	0.2	-	-	-	-	-	-	4650
P223	14-Mar-00	14.9	0.4	-	-	-	-	-	-	4590
P223	22-Mar-00	15.9	0.3	-	-	-	-	-	-	4590
P223	28-Mar-00	16.1	0.6	-	-	-	-	-	-	4600
P226	07-Mar-00	26.4	0.4	-	-	-	-	-	-	5000
P226	14-Mar-00	27.2	0.3	-	-	-	-	-	-	4970
P226	22-Mar-00	27.5	0.3	-	-	-	-	-	-	5000
P226	28-Mar-00	26.7	0.6	-	-	-	-	-	-	5040
P228	07-Mar-00	18	0.7	-	-	-	-	-	-	5200
P228	14-Mar-00	17.2	0.7	-	-	-	-	-	-	5120
P228	22-Mar-00	18	0.8	-	-	-	-	-	-	5170
P228	28-Mar-00	18	0.7	-	-	-	-	-	-	5100
P229	07-Mar-00	6.7	0.3	-	-	-	-	-	-	4910
P229	14-Mar-00	6.3	0.2	-	-	-	-	-	-	4890
P229	22-Mar-00	7.3	0.3	-	-	-	-	-	-	4940
P229	28-Mar-00	8.2	0.3	-	-	-	-	-	-	4930
P230	07-Mar-00	7.2	0.6	-	-	-	-	-	-	4590
P230	14-Mar-00	7	0.4	-	-	-	-	-	-	4470
P230	22-Mar-00	7.5	0.6	-	-	-	-	-	-	4550
P230	28-Mar-00	7.7	0.4	-	-	-	-	-	-	4560

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
P232	07-Mar-00	13.7	0.8	-	-	-	-	-	-	5080
P232	14-Mar-00	12.3	0.8	-	-	-	-	-	-	4890
P232	22-Mar-00	13.8	0.7	-	-	-	-	-	-	5940
P232	28-Mar-00	13.1	0.8	-	-	-	-	-	-	7800
P233	07-Mar-00	12.4	0.7	-	-	-	-	-	-	4940
P233	14-Mar-00	12.2	7	-	-	-	-	-	-	4900
P233	22-Mar-00	13.7	0.7	-	-	-	-	-	-	5540
P233	28-Mar-00	12.6	0.6	-	-	-	-	-	-	4950
P241	07-Mar-00	24.3	0.6	-	-	-	-	-	-	4780
P241	14-Mar-00	25.6	0.2	-	-	-	-	-	-	4740
P241	22-Mar-00	26.5	0.2	-	-	-	-	-	-	4790
P241	28-Mar-00	26.8	0.2	-	-	-	-	-	-	4940
P244	07-Mar-00	9.8	1.5	-	-	-	-	-	-	4910
P244	14-Mar-00	9.3	1.4	-	-	-	-	-	-	4840
P244	22-Mar-00	9.8	1.3	-	-	-	-	-	-	4900
P244	28-Mar-00	10	1.3	-	-	-	-	-	-	4930
P246	07-Mar-00	6.3	1.2	-	-	-	-	-	-	4960
P246	14-Mar-00	6.4	1.1	-	-	-	-	-	-	4900
P246	22-Mar-00	7.1	1.1	-	-	-	-	-	-	5020
P246	28-Mar-00	8	1.2	-	-	-	-	-	-	5000
P248	07-Mar-00	16.2	1.1	-	-	-	-	-	-	4290
P248	14-Mar-00	15.9	0.8	-	-	-	-	-	-	4270
P248	22-Mar-00	16.3	0.8	-	-	-	-	-	-	4320
P248	28-Mar-00	16.8	0.9	-	-	-	-	-	-	4260
P250	07-Mar-00	19	0.9	-	-	-	-	-	-	5010
P250	14-Mar-00	18.3	0.6	-	-	-	-	-	-	4940
P250	22-Mar-00	19.8	0.6	-	-	-	-	-	-	5050
P250	28-Mar-00	19.5	0.7	-	-	-	-	-	-	5020

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

APRIL 2000

MINE UNIT 3

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment		x	
d. Wellfield Recirculation	x		
e. Other (explain):		x	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P211, P213, P216, P218, P219, P223, P226, P228, P229, P230, P232, P233, P241, P244, P246, P248, P250, P254, I278P, I307P

CRM

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
I278P	04-Apr-00	26	0.7	-	-	-	-	-	-	5170
I278P	11-Apr-00	23.8	-	-	-	-	-	-	-	5000
I278P	18-Apr-00	21.9	0.9	-	-	-	-	-	-	4920
I278P	25-Apr-00	21.8	-	-	-	-	-	-	-	5030
I307P	04-Apr-00	4.5	0.6	-	-	-	-	-	-	4990
I307P	11-Apr-00	3.8	-	-	-	-	-	-	-	5000
I307P	18-Apr-00	3.9	0.8	-	-	-	-	-	-	4900
I307P	25-Apr-00	3.6	-	-	-	-	-	-	-	4870
P211	04-Apr-00	16.1	0.9	-	-	-	-	-	-	4900
P211	11-Apr-00	15.9	-	-	-	-	-	-	-	4930
P211	18-Apr-00	14.2	1.2	-	-	-	-	-	-	4860
P211	25-Apr-00	14.7	-	-	-	-	-	-	-	4860
P213	04-Apr-00	7.9	0.7	-	-	-	-	-	-	4970
P213	11-Apr-00	8	-	-	-	-	-	-	-	5020
P213	18-Apr-00	8.3	0.6	-	-	-	-	-	-	4890
P213	25-Apr-00	7.7	-	-	-	-	-	-	-	4910
P216	04-Apr-00	13.7	1.2	-	-	-	-	-	-	5130
P216	11-Apr-00	13.6	-	-	-	-	-	-	-	5150
P216	18-Apr-00	12.8	0.9	-	-	-	-	-	-	5080
P216	25-Apr-00	13	-	-	-	-	-	-	-	5090
P218	04-Apr-00	13.3	0.4	-	-	-	-	-	-	5000
P218	11-Apr-00	12.8	-	-	-	-	-	-	-	5020
P218	18-Apr-00	12.6	0.4	-	-	-	-	-	-	5000
P218	25-Apr-00	11.8	-	-	-	-	-	-	-	4860
P219	04-Apr-00	13.5	0.6	-	-	-	-	-	-	4950
P219	11-Apr-00	12.8	-	-	-	-	-	-	-	4890
P219	18-Apr-00	12.6	0.4	-	-	-	-	-	-	4880
P219	25-Apr-00	12	-	-	-	-	-	-	-	4920
P223	04-Apr-00	15.3	0.6	-	-	-	-	-	-	4550
P223	11-Apr-00	15	-	-	-	-	-	-	-	4610
P223	18-Apr-00	15	0.6	-	-	-	-	-	-	4600
P223	25-Apr-00	15.2	-	-	-	-	-	-	-	4600
P226	04-Apr-00	26	0.6	-	-	-	-	-	-	4960
P226	11-Apr-00	25.9	-	-	-	-	-	-	-	5050
P226	18-Apr-00	25.6	0.6	-	-	-	-	-	-	4940
P228	04-Apr-00	17.3	0.6	-	-	-	-	-	-	5150
P228	11-Apr-00	17.9	-	-	-	-	-	-	-	5220
P228	18-Apr-00	17	0.6	-	-	-	-	-	-	5170
P228	25-Apr-00	16.5	-	-	-	-	-	-	-	5050
P229	04-Apr-00	6.9	0.3	-	-	-	-	-	-	4920
P229	11-Apr-00	6.3	-	-	-	-	-	-	-	5000
P229	18-Apr-00	6	0.6	-	-	-	-	-	-	4860
P229	25-Apr-00	5.4	-	-	-	-	-	-	-	4890
P230	04-Apr-00	7.1	0.6	-	-	-	-	-	-	4530
P230	11-Apr-00	7.2	-	-	-	-	-	-	-	4580
P230	18-Apr-00	6.6	0.6	-	-	-	-	-	-	4500
P230	25-Apr-00	6.1	-	-	-	-	-	-	-	4520

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
P232	04-Apr-00	11.5	0.6	-	-	-	-	-	-	5050
P232	11-Apr-00	10.6	-	-	-	-	-	-	-	4920
P232	18-Apr-00	11.7	0.9	-	-	-	-	-	-	4910
P232	25-Apr-00	10.8	-	-	-	-	-	-	-	4880
P233	04-Apr-00	12.4	0.6	-	-	-	-	-	-	4940
P233	11-Apr-00	12.2	-	-	-	-	-	-	-	4930
P233	18-Apr-00	11.2	0.9	-	-	-	-	-	-	4860
P233	25-Apr-00	11.8	-	-	-	-	-	-	-	4850
P241	04-Apr-00	27.8	0.3	-	-	-	-	-	-	4770
P241	11-Apr-00	29.5	-	-	-	-	-	-	-	4740
P241	18-Apr-00	29.6	0.6	-	-	-	-	-	-	4700
P241	25-Apr-00	29.6	-	-	-	-	-	-	-	4730
P244	04-Apr-00	9.2	1.3	-	-	-	-	-	-	4930
P244	11-Apr-00	9.4	-	-	-	-	-	-	-	4950
P244	18-Apr-00	9.3	1.2	-	-	-	-	-	-	4900
P244	25-Apr-00	8.9	-	-	-	-	-	-	-	4980
P246	04-Apr-00	7.4	1	-	-	-	-	-	-	5020
P246	11-Apr-00	6.8	-	-	-	-	-	-	-	5030
P246	18-Apr-00	7	1.1	-	-	-	-	-	-	4900
P246	25-Apr-00	6.6	-	-	-	-	-	-	-	4900
P248	04-Apr-00	15.9	0.9	-	-	-	-	-	-	4340
P248	11-Apr-00	16	-	-	-	-	-	-	-	4310
P248	18-Apr-00	16.2	0.8	-	-	-	-	-	-	4330
P248	25-Apr-00	15.6	-	-	-	-	-	-	-	4350
P250	04-Apr-00	19	0.8	-	-	-	-	-	-	4970
P250	11-Apr-00	18	-	-	-	-	-	-	-	5010
P250	18-Apr-00	17.4	0.8	-	-	-	-	-	-	4930
P250	25-Apr-00	17.6	-	-	-	-	-	-	-	4840
P254	25-Apr-00	14	-	-	-	-	-	-	-	4450

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

MAY 2000

MINE UNIT 3

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment		x	
d. Wellfield Recirculation	x		
e. Other (explain):		x	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P211, P213, P216, P218, P219, P223, P226, P228, P229, P230, P232, P233, P241, P244, P246, P248, P250, P254, I278P, I307P

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
I278P	03-May-00	20.5	0.9	-	-	-	-	-	-	4990
I278P	09-May-00	19.8	-	-	-	-	-	-	-	4850
I278P	16-May-00	18.6	0.3	-	-	-	-	-	-	4830
I278P	23-May-00	18.5	-	-	-	-	-	-	-	4790
I278P	31-May-00	18.5	0.4	-	-	-	-	-	-	4820
I307P	03-May-00	3.3	0.8	-	-	-	-	-	-	4860
I307P	09-May-00	3.5	-	-	-	-	-	-	-	4840
I307P	16-May-00	2.8	0.7	-	-	-	-	-	-	4870
I307P	23-May-00	2.6	-	-	-	-	-	-	-	4840
I307P	31-May-00	2.8	0.8	-	-	-	-	-	-	4860
P211	03-May-00	14.1	0.8	-	-	-	-	-	-	4920
P211	09-May-00	13.8	-	-	-	-	-	-	-	4790
P211	16-May-00	14.1	0.8	-	-	-	-	-	-	4780
P211	23-May-00	14	-	-	-	-	-	-	-	4810
P211	31-May-00	13.9	0.8	-	-	-	-	-	-	4750
P213	03-May-00	7.3	0.7	-	-	-	-	-	-	4880
P213	09-May-00	7.1	-	-	-	-	-	-	-	4790
P213	16-May-00	6.8	0.6	-	-	-	-	-	-	4870
P213	23-May-00	6.5	-	-	-	-	-	-	-	4860
P213	31-May-00	4.6	0.6	-	-	-	-	-	-	4880
P216	03-May-00	12	0.9	-	-	-	-	-	-	5120
P216	09-May-00	12	-	-	-	-	-	-	-	5010
P216	16-May-00	11.3	0.7	-	-	-	-	-	-	5040
P216	23-May-00	10.7	-	-	-	-	-	-	-	4920
P216	31-May-00	11.1	0.9	-	-	-	-	-	-	5000
P218	03-May-00	10.6	0.6	-	-	-	-	-	-	5020
P218	09-May-00	11.6	-	-	-	-	-	-	-	5180
P218	16-May-00	10.8	0.2	-	-	-	-	-	-	4930
P218	23-May-00	9.6	-	-	-	-	-	-	-	4880
P218	31-May-00	10.9	0.3	-	-	-	-	-	-	5170
P219	03-May-00	11.6	0.5	-	-	-	-	-	-	4840
P219	09-May-00	11.8	-	-	-	-	-	-	-	4790
P219	16-May-00	10.4	0.2	-	-	-	-	-	-	4750
P219	23-May-00	9.5	-	-	-	-	-	-	-	4510
P219	31-May-00	11.1	0.8	-	-	-	-	-	-	4820
P223	03-May-00	15.3	0.6	-	-	-	-	-	-	4580
P223	09-May-00	15.6	-	-	-	-	-	-	-	4630
P223	16-May-00	15.7	0.3	-	-	-	-	-	-	4670
P223	23-May-00	14.5	-	-	-	-	-	-	-	4630
P223	31-May-00	14.9	0.3	-	-	-	-	-	-	4610
P226	03-May-00	25.5	0.6	-	-	-	-	-	-	5010
P226	09-May-00	25.4	-	-	-	-	-	-	-	4950
P226	16-May-00	24.5	0.2	-	-	-	-	-	-	4900
P226	23-May-00	23.6	-	-	-	-	-	-	-	4890
P226	31-May-00	23.8	0.2	-	-	-	-	-	-	4890
P228	03-May-00	16.5	0.8	-	-	-	-	-	-	5220
P228	09-May-00	16.4	-	-	-	-	-	-	-	5010
P228	16-May-00	15.9	0.3	-	-	-	-	-	-	5050
P228	23-May-00	15.9	-	-	-	-	-	-	-	4980
P228	31-May-00	16.2	0.3	-	-	-	-	-	-	5020

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
P229	03-May-00	5	0.5	-	-	-	-	-	-	4920
P229	09-May-00	5	-	-	-	-	-	-	-	4860
P229	16-May-00	4.6	0	-	-	-	-	-	-	4830
P229	23-May-00	4.5	-	-	-	-	-	-	-	4860
P229	31-May-00	4.6	0	-	-	-	-	-	-	4830
P230	03-May-00	6.3	0.7	-	-	-	-	-	-	4480
P230	09-May-00	6.6	-	-	-	-	-	-	-	4550
P230	16-May-00	5.9	4420	-	-	-	-	-	-	4420
P230	23-May-00	9.6	-	-	-	-	-	-	-	4560
P230	31-May-00	6.4	0.6	-	-	-	-	-	-	4580
P232	03-May-00	10.6	0.9	-	-	-	-	-	-	4990
P232	09-May-00	10	-	-	-	-	-	-	-	4880
P232	16-May-00	9.2	0.7	-	-	-	-	-	-	4820
P232	23-May-00	9.3	-	-	-	-	-	-	-	4820
P232	31-May-00	9	1	-	-	-	-	-	-	4850
P233	03-May-00	11.5	0.6	-	-	-	-	-	-	4820
P233	09-May-00	11.5	-	-	-	-	-	-	-	4850
P233	16-May-00	10.6	0.8	-	-	-	-	-	-	4770
P233	23-May-00	13	-	-	-	-	-	-	-	1200
P233	31-May-00	11.3	0.9	-	-	-	-	-	-	4870
P241	03-May-00	29.9	0.6	-	-	-	-	-	-	4710
P241	09-May-00	29.9	-	-	-	-	-	-	-	4600
P241	16-May-00	31.5	0.3	-	-	-	-	-	-	4680
P241	23-May-00	31.5	-	-	-	-	-	-	-	4660
P241	31-May-00	32.5	0.2	-	-	-	-	-	-	4690
P244	03-May-00	8.7	1.6	-	-	-	-	-	-	4870
P244	09-May-00	8.8	-	-	-	-	-	-	-	4760
P244	16-May-00	8	1.6	-	-	-	-	-	-	4800
P244	23-May-00	8.4	-	-	-	-	-	-	-	4800
P244	31-May-00	8.7	1.2	-	-	-	-	-	-	4820
P246	03-May-00	6.3	1.1	-	-	-	-	-	-	4900
P246	09-May-00	6.3	-	-	-	-	-	-	-	4820
P246	16-May-00	5.7	0.9	-	-	-	-	-	-	4880
P246	23-May-00	6	-	-	-	-	-	-	-	4840
P246	31-May-00	5.6	0.9	-	-	-	-	-	-	4810
P248	03-May-00	15	0.9	-	-	-	-	-	-	4270
P248	09-May-00	15.6	-	-	-	-	-	-	-	4360
P248	16-May-00	15.8	0.7	-	-	-	-	-	-	4490
P248	23-May-00	14.5	-	-	-	-	-	-	-	4260
P248	31-May-00	15.2	0.9	-	-	-	-	-	-	4280
P250	03-May-00	17.2	0.9	-	-	-	-	-	-	4960
P250	09-May-00	16.9	-	-	-	-	-	-	-	4890
P250	16-May-00	16.6	0.6	-	-	-	-	-	-	4860
P250	23-May-00	16.2	-	-	-	-	-	-	-	4830
P250	31-May-00	16.5	0.6	-	-	-	-	-	-	4850
P254	09-May-00	14.3	-	-	-	-	-	-	-	4350
P254	16-May-00	13.9	0.2	-	-	-	-	-	-	4410
P254	23-May-00	13.4	-	-	-	-	-	-	-	4290
P254	31-May-00	13.9	0.3	-	-	-	-	-	-	-

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

JUNE 2000

MINE UNIT 3

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		x	(if yes, complete part 2)
b. Groundwater Sweep		x	(if yes, complete part 3)
c. Groundwater Treatment		x	
d. Wellfield Recirculation	x		
e. Other (explain):		x	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P211, P213, P216, P218, P219, P223, P226, P228, P229, P230, P232, P233, P241, P244, P246, P248, P250, P254, I278P, I307P

CRM.

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
I278P	6-Jun-00	17.5	0.4	-	-	-	-	-	-	4780
I278P	13-Jun-00	17.1	-	-	-	-	-	-	-	4860
I278P	20-Jun-00	16.5	0.9	-	-	-	-	-	-	4700
I278P	27-Jun-00	16	-	-	-	-	-	-	-	4720
I307P	6-Jun-00	2.4	-	-	-	-	-	-	-	4790
I307P	13-Jun-00	1.4	0.6	-	-	-	-	-	-	4730
I307P	20-Jun-00	2	-	-	-	-	-	-	-	4710
I307P	27-Jun-00	2	0.6	-	-	-	-	-	-	4750
P211	6-Jun-00	13.1	-	-	-	-	-	-	-	4750
P211	13-Jun-00	12.7	0.8	-	-	-	-	-	-	4760
P211	20-Jun-00	12.7	-	-	-	-	-	-	-	4720
P211	27-Jun-00	12	0.8	-	-	-	-	-	-	4660
P213	6-Jun-00	6	-	-	-	-	-	-	-	4780
P213	13-Jun-00	6.1	0.8	-	-	-	-	-	-	4760
P213	20-Jun-00	6.1	-	-	-	-	-	-	-	4750
P213	27-Jun-00	6	0.5	-	-	-	-	-	-	4790
P216	6-Jun-00	9.5	0.7	-	-	-	-	-	-	4890
P216	13-Jun-00	9.2	-	-	-	-	-	-	-	4860
P216	20-Jun-00	9.2	0.6	-	-	-	-	-	-	4840
P216	27-Jun-00	8.7	-	-	-	-	-	-	-	4940
P218	6-Jun-00	10.5	0.2	-	-	-	-	-	-	4830
P218	13-Jun-00	9.5	-	-	-	-	-	-	-	4800
P218	20-Jun-00	10.2	0.04	-	-	-	-	-	-	4700
P218	27-Jun-00	9.4	-	-	-	-	-	-	-	4730
P219	6-Jun-00	10.4	0.2	-	-	-	-	-	-	4680
P219	13-Jun-00	9.7	-	-	-	-	-	-	-	4800
P219	20-Jun-00	10.2	0.4	-	-	-	-	-	-	4680
P219	27-Jun-00	10.1	-	-	-	-	-	-	-	4670
P223	6-Jun-00	13.8	0.3	-	-	-	-	-	-	4590
P223	13-Jun-00	13.5	-	-	-	-	-	-	-	4700
P223	20-Jun-00	13.8	0.6	-	-	-	-	-	-	4600
P223	27-Jun-00	13.3	-	-	-	-	-	-	-	4570
P226	6-Jun-00	22.8	0.3	-	-	-	-	-	-	4830
P226	13-Jun-00	22.1	-	-	-	-	-	-	-	4790
P226	20-Jun-00	21.3	0.6	-	-	-	-	-	-	4770
P226	27-Jun-00	21.2	-	-	-	-	-	-	-	4800
P228	6-Jun-00	15.1	-	-	-	-	-	-	-	5030
P228	13-Jun-00	14.6	0.4	-	-	-	-	-	-	4990
P228	20-Jun-00	14.4	-	-	-	-	-	-	-	4890
P228	27-Jun-00	15	0.7	-	-	-	-	-	-	5110
P229	6-Jun-00	4.2	-	-	-	-	-	-	-	4720
P229	13-Jun-00	2.7	0.4	-	-	-	-	-	-	4800
P229	20-Jun-00	3.7	-	-	-	-	-	-	-	4680
P229	27-Jun-00	3.9	0.4	-	-	-	-	-	-	4700
P230	6-Jun-00	6.1	-	-	-	-	-	-	-	4460
P230	13-Jun-00	5	0.6	-	-	-	-	-	-	4450
P230	20-Jun-00	5.7	-	-	-	-	-	-	-	4370
P230	27-Jun-00	5.8	0.6	-	-	-	-	-	-	4410

Mine Unit 3 Restoration Data

WellNum2	Date	U3O8	V	Total_CO3	PH	Ca	Na	Cl	SO4	Cond
P232	6-Jun-00	8.2	-	-	-	-	-	-	-	4700
P232	13-Jun-00	7.6	0.7	-	-	-	-	-	-	4770
P232	20-Jun-00	8	-	-	-	-	-	-	-	4700
P232	27-Jun-00	8.1	0.7	-	-	-	-	-	-	4670
P233	6-Jun-00	10.3	-	-	-	-	-	-	-	4720
P233	13-Jun-00	10	0.6	-	-	-	-	-	-	4770
P233	20-Jun-00	10.9	-	-	-	-	-	-	-	4680
P233	27-Jun-00	12.1	0.6	-	-	-	-	-	-	4760
P241	6-Jun-00	31.9	-	-	-	-	-	-	-	4620
P241	13-Jun-00	32.5	0.3	-	-	-	-	-	-	4620
P241	20-Jun-00	31.7	-	-	-	-	-	-	-	4570
P241	27-Jun-00	32.2	0.2	-	-	-	-	-	-	4590
P244	6-Jun-00	7.9	-	-	-	-	-	-	-	4730
P244	13-Jun-00	7.4	1.2	-	-	-	-	-	-	4850
P244	20-Jun-00	7.5	-	-	-	-	-	-	-	4790
P244	27-Jun-00	7.1	1.2	-	-	-	-	-	-	4680
P246	6-Jun-00	5.1	-	-	-	-	-	-	-	4770
P246	13-Jun-00	4.2	1.1	-	-	-	-	-	-	4810
P246	20-Jun-00	4.9	-	-	-	-	-	-	-	4790
P246	27-Jun-00	4.6	0.9	-	-	-	-	-	-	4730
P248	6-Jun-00	14.6	-	-	-	-	-	-	-	4300
P248	13-Jun-00	13.6	0.7	-	-	-	-	-	-	4270
P248	20-Jun-00	14.1	-	-	-	-	-	-	-	4250
P248	27-Jun-00	14.2	0.8	-	-	-	-	-	-	4200
P250	6-Jun-00	15.6	-	-	-	-	-	-	-	4850
P250	13-Jun-00	15.1	0.7	-	-	-	-	-	-	4810
P250	20-Jun-00	14.9	-	-	-	-	-	-	-	4760
P250	27-Jun-00	14.8	0.6	-	-	-	-	-	-	4780
P254	6-Jun-00	13.1	-	-	-	-	-	-	-	4140
P254	13-Jun-00	12.6	0.1	-	-	-	-	-	-	4280
P254	20-Jun-00	12.9	-	-	-	-	-	-	-	4200
P254	27-Jun-00	12.4	0.1	-	-	-	-	-	-	4060

Appendix J

Environmental Air, Gamma Exposure and Sediment Monitoring Results

First and Second Quarter, 2000

Crow Butte Resources, Inc.
Crow Butte Uranium Project

Track Etch Cup Ambient Radon Concentrations

Air Monitoring Station No.

Period: January 4, 2000 to July 5, 2000

	Gross Count	Average Radon Concentration (x 10^{-9} uCi/ml)	Accuracy (x 10^{-9} uCi/ml)	Percent Effluent Concnetration
AM-1	56	0.5	0.07	5.0%
AM-2	89	1	0.11	10.0%
AM-3	61	0.6	0.08	6.0%
AM-4	80	0.8	0.09	8.0%
AM-5	83	0.9	0.10	9.0%
AM-6	47	0.8	0.12	8.0%
AM-8	52	0.9	0.12	9.0%
AB-3 (AM-3 Duplicate)	73	0.7	0.08	7.0%
AB-6 (AM-6 Duplicate)	56	0.5	0.07	5.0%

LLD (x 10^{-9} uCi/ml)	0.2
Effluent Concentration Limit, 10 CFR 20 App B Column 2:	10

ENERGY LABORATORIES
Billings • Casper • Gillette
Helena • Rapid City

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 20, 2000

SAMPLE ID: A.M-1

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Error Estimate µCi/mL	L.L.D. µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
31541-1	^{nat}U	1.24E-16	N/A	1.00E-16	9.00E-14	1.38E-01
01/04/00-03/15/00	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
Air Volume in mLs	^{210}Pb	1.19E-14	5.48E-16	2.00E-15	6.00E-13	1.99E+00
2.08E+09						
33699-1	^{nat}U	1.24E-16	N/A	1.00E-16	9.00E-14	1.38E-01
04/03/00-06/15/00	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
Air Volume in mLs	^{210}Pb	7.72E-15	5.48E-16	2.00E-15	6.00E-13	1.29E+00
2.08E+09						

Final prep volume is 0.95 liter
LLD's are from Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Week for Radium-226
Day for Lead-210

lmh r:\Reports\Clients.2000\Crow_Butte\Air\2q2000.xls

ENERGY LABORATORIES
Billings • Casper • Gillette
Helena • Rapid City

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 20, 2000

SAMPLE ID: A.M-2

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Error Estimate µCi/mL	L.L.D. µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
31541-2	^{nat}U	1.24E-16	N/A	1.00E-16	9.00E-14	1.38E-01
01/04/00-03/15/00	^{226}Ra	5.94E-16	1.83E-16	1.00E-16	9.00E-13	6.60E-02
Air Volume in mLs	^{210}Pb	2.06E-14	6.39E-16	2.00E-15	6.00E-13	3.43E+00
2.08E+09						
33699-2	^{nat}U	2.06E-16	N/A	1.00E-16	9.00E-14	2.28E-01
04/03/00-06/15/00	^{226}Ra	3.90E-16	1.74E-16	1.00E-16	9.00E-13	4.34E-02
Air Volume in mLs	^{210}Pb	1.01E-14	5.64E-16	2.00E-15	6.00E-13	1.68E+00
2.19E+09						

Final prep volume is 0.95 liter
LLD's are from Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Week for Radium-226
Day for Lead-210

lmh r:\Reports\Clients.2000\Crow_Butte\Air\2q2000.xls

ENERGY LABORATORIES
Billings • Casper • Gillette
Helena • Rapid City

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 20, 2000

SAMPLE ID: A.M-3

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Error Estimate µCi/mL	L.L.D. µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
31541-3	^{nat}U	1.81E-15	N/A	1.00E-16	9.00E-14	2.01E+00
01/04/00-03/15/00	^{226}Ra	2.03E-15	8.64E-17	1.00E-16	9.00E-13	2.26E-01
Air Volume in mLs	^{210}Pb	1.72E-14	5.61E-16	2.00E-15	6.00E-13	2.87E+00
2.20E+09						
33699-3	^{nat}U	1.55E-16	N/A	1.00E-16	9.00E-14	1.72E-01
04/03/00-06/15/00	^{226}Ra	1.32E-15	9.13E-17	1.00E-16	9.00E-13	1.47E-01
Air Volume in mLs	^{210}Pb	8.50E-15	9.13E-17	2.00E-15	6.00E-13	1.42E+00
2.08E+09						

Final prep volume is 0.95 liter
LLD's are from Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Week for Radium-226
Day for Lead-210

lmh r:\Reports\Clients.2000\Crow_Butte\Air\2q2000.xls

ENERGY LABORATORIES
Billings • Casper • Gillette
Helena • Rapid City

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 20, 2000

SAMPLE ID: A.M-4

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Error Estimate µCi/mL	L.L.D. µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
31541-4	^{nat}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
01/04/00-03/15/00	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
Air Volume in mLs	^{210}Pb	1.54E-14	5.74E-16	2.00E-15	6.00E-13	2.57E+00
2.15E+09						
33699-4	^{nat}U	3.76E-16	N/A	1.00E-16	9.00E-14	4.18E-01
04/03/00-06/15/00	^{226}Ra	1.11E-15	9.27E-17	1.00E-16	9.00E-13	1.24E-01
Air Volume in mLs	^{210}Pb	1.09E-14	6.02E-16	2.00E-15	6.00E-13	1.82E+00
2.05E+09						

Final prep volume is 0.95 liter
LLD's are from Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Week for Radium-226
Day for Lead-210

lmh r:\Reports\Clients.2000\Crow_Butte\Air\2q2000.xls

ENERGY LABORATORIES
Billings • Casper • Gillette
Helena • Rapid City

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 20, 2000

SAMPLE ID: A.M-5

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Error Estimate µCi/mL	L.L.D. µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
31541-5	^{nat}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
01/04/00-03/15/00	^{226}Ra	4.15E-16	1.38E-16	1.00E-16	9.00E-13	4.61E-02
Air Volume in mLs	^{210}Pb	1.32E-14	5.53E-16	2.00E-15	6.00E-13	2.20E+00
2.06E+09						
33699-5	^{nat}U	1.86E-16	N/A	1.00E-16	9.00E-14	2.07E-01
04/03/00-06/15/00	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
Air Volume in mLs	^{210}Pb	1.34E-14	5.97E-16	2.00E-15	6.00E-13	2.23E+00
2.07E+09						

Final prep volume is 0.95 liter
LLD's are from Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Week for Radium-226
Day for Lead-210

lmh r:\Reports\Clients.2000\Crow_Butte\Air\2q2000.xls

ENERGY LABORATORIES
Billings • Casper • Gillette
Helena • Rapid City

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 20, 2000

SAMPLE ID: A.M-6

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Error Estimate µCi/mL	L.L.D. µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
31541-6	^{nat}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
01/04/00-03/15/00	^{226}Ra	4.55E-16	1.36E-16	1.00E-16	9.00E-13	5.05E-02
Air Volume in mLs	^{210}Pb	1.47E-14	5.91E-16	2.00E-15	6.00E-13	2.45E+00
2.09E+09						
33699-6	^{nat}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
04/03/00-06/15/00	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
Air Volume in mLs	^{210}Pb	6.48E-15	5.40E-16	2.00E-15	6.00E-13	1.08E+00
2.11E+09						

Final prep volume is 0.95 liter
LLD's are from Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Week for Radium-226
Day for Lead-210

lmh r:\Reports\Clients.2000\Crow_Butte\Air\2q2000.xls

ENERGY LABORATORIES
Billings • Casper • Gillette
Helena • Rapid City

ENERGY LABORATORIES, INC.
SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601
MAILING: P.O. BOX 3258 • CASPER, WY 82602
E-mail: energy@trib.com • FAX: (307) 234-1639
PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

HIGH VOLUME AIR SAMPLING REPORT

CLIENT: CROW BUTTE RESOURCES

REPORT DATE: July 20, 2000

SAMPLE ID: A.M-8

Quarter/Date Sampled Air Volume	Radionuclide	Concentration µCi/mL	Error Estimate µCi/mL	L.L.D. µCi/mL	Effluent Conc.* µCi/mL	% Effluent Concentration
31541-7	^{nat}U	< 1.00E-16	N/A	1.00E-16	9.00E-14	< 1.11E-01
01/04/00-03/15/00	^{226}Ra	4.17E-16	1.39E-16	1.00E-16	9.00E-13	4.63E-02
Air Volume in mLs	^{210}Pb	1.19E-14	5.56E-16	2.00E-15	6.00E-13	1.98E+00
2.05E+09						
33699-7	^{nat}U	8.12E-16	N/A	1.00E-16	9.00E-14	9.02E-01
04/03/00-06/15/00	^{226}Ra	< 1.00E-16	N/A	1.00E-16	9.00E-13	< 1.11E-02
Air Volume in mLs	^{210}Pb	8.21E-15	5.53E-16	2.00E-15	6.00E-13	1.37E+00
2.06E+09						

Final prep volume is 0.95 liter
LLD's are from Reg. Guide 4.14
*Effluent Concentration from the NEW 10 CFR Part 20 - Appendix B - Table 2
Year for Natural Uranium
Week for Radium-226
Day for Lead-210

lmh r:\Reports\Clients.2000\Crow_Butte\Air\2q2000.xls

Eberline Dosimetry Services
7021 Pan American Fwy NE
Albuquerque, NM 87109
(505) 345-9931 Voice (505) 761-5410 Fax
(888) 343-8537 Toll-Free

TLD ENVIRONMENTAL MONITOR REPORT

Customer No. 06192
Report Date April 27, 2000

Exposure Period 1/4/00 - 4/3/00

Badge No		Dosimeter Readings (mrem)						
		Chip 1	Chip 2	Chip 3	Chip 4	Chip 5	Date Issued	Date Annealed
Type	Freq	Identification		Average	± 2σ	mrem Per Week	Date Returned	Date Read
01000		72	72	69	64	74	1/1/00	12/15/99
S	Q	CONTROL		70.2	7.8	3.69	4/7/00	4/26/00
01001		27	37	37	37	38	1/1/00	12/15/99
S	Q	AM-1		35.2	9.2	1.85	4/7/00	4/26/00
01002		36	37	32	34	35	1/1/00	12/15/99
S	Q	AM-2		34.8	3.8	1.83	4/7/00	4/26/00
01003		41	39	35	37	30	1/1/00	12/15/99
S	Q	AM-6		36.4	8.4	1.92	4/7/00	4/26/00
01008		34	34	45	37	44	1/1/00	12/15/99
S	Q	AM-8		38.8	10.7	2.04	4/7/00	4/26/00
01009		39	38	34	36	34	1/1/00	12/15/99
S	Q	AM-3		36.2	4.6	1.91	4/7/00	4/26/00
01010		33	27	32	32	30	1/1/00	12/15/99
S	Q	AM-4		30.8	4.8	1.62	4/7/00	4/26/00
01011		24	35	41	34	37	1/1/00	12/15/99
S	Q	AM-5		34.2	12.6	1.80	4/7/00	4/26/00

Frequency Code
W - Weekly
B - BiWeekly
M - Monthly
P - BiMonthly
Q - Quarterly
S - SemiAnnual
A - Annual
I - Irregular

Company CROW BUTTE RESOURCES
Attention RHONDA GRANTHAM
Address P.O. BOX 169

CRAWFORD, NE 69339

Eberline Dosimetry Services
7021 Pan American Fwy NE
Albuquerque, NM 87109
(505) 345-9931 Voice (505) 761-5410 Fax
(888) 343-8537 Toll-Free

TLD ENVIRONMENTAL MONITOR REPORT

Customer No. 06192
Report Date July 20, 2000

Exposure Period 4/3/00-7/5/00

Badge No		Dosimeter Readings (mrem)					Date Issued	Date Annealed
		Chip 1	Chip 2	Chip 3	Chip 4	Chip 5		
Type	Freq	Identification		Average	± 2σ	mrem Per Week	Date Returned	Date Read
01000		68	77	55	80	59	4/1/00	3/17/00
S	Q	CONTROL		67.8	21.8	3.86	7/11/00	7/18/00
01001		31	32	33	24	28	4/1/00	3/17/00
S	Q	AM-1		29.6	7.3	1.68	7/11/00	7/18/00
01002		28	34	34	30	35	4/1/00	3/17/00
S	Q	AM-2		32.2	6.1	1.83	7/11/00	7/18/00
01003		30	33	36	33	25	4/1/00	3/17/00
S	Q	AM-6		31.4	8.3	1.79	7/11/00	7/18/00
01008		40	39	39	36	28	4/1/00	3/17/00
S	Q	AM-8		36.4	9.9	2.07	7/11/00	7/18/00
01009		34	34	34	31	31	4/1/00	3/17/00
S	Q	AM-3		32.8	3.3	1.87	7/11/00	7/18/00
01010		34	20	32	33	32	4/1/00	3/17/00
S	Q	AM-4		30.2	11.5	1.72	7/11/00	7/18/00
01011		35	31	17	34	30	4/1/00	3/17/00
S	Q	AM-5		29.4	14.5	1.67	7/11/00	7/18/00

Frequency Code
W - Weekly
B - BiWeekly
M - Monthly
P - BiMonthly
Q - Quarterly
S - SemiAnnual
A - Annual
I - Irregular

Company CROW BUTTE RESOURCES
Attention RHONDA GRANTHAM
Address P.O. BOX 169

CRAWFORD, NE 69339