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Ref: UR 82-014

40-8380

January 19, 1982

Manager

Clark M. Bolser DOCKETED USNRC MAR 2 3 1982 NMSS MAIL SECTION DOCKET CLERK

Mr. Ross A. Scarano, Chief Uranium Recovery Licensing Branch Division of Waste Management U.S. Nuclear Regulatory Commission Willste Building 7915 Eastern Avenue Silver Spring, MD 20910

Dear Mr. Scarano:

License SUA-1228 Re: Docket No. 8380

Commission

NMSS Mail Section

As required by the recently issued Source Material License for Rocky Mountain Energy's Nine Mile Lake Project, enclosed are the following:

> Results of the alpha contamination survey (Attachment A) required by Condition no. 17.

A copy of the NPDES permit jointly issued by the Wyoming DEQ and EPA (Attachment B) required by Condition no. 29.

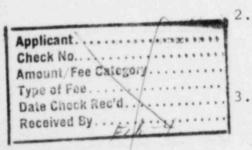
A copy of the surety instrument, that is, the Reclamation Performance Bond posted with the Wyoming DEQ and correspondence concerning the bond amount (Attachment C), required by Condition no. 37.

Regarding the alpha contamination survey required by Condition no. 17, it should be noted that although no surveyed areas exceeded 1000 dpm total alpha, all areas with a count greater than 500 dpm total alpha have been decontaminated as a precautionary measure.

Concerning the Reclamation Performance Bond, note that the current bond covers the cost of Patterns 3 and 4 restoration as well as estimated decommissioning and reclamation costs for a 27 acre pond which was never constructed. The bond therefore reflects a much greater reclamation liability than actually exists.

10 Longs Peak Drive Broomfield, Colorado 80020 303 469 8844

8204260423 FEE EXEMPT20077



Mr. Ross Scarano January 19, 1982 Page Two

Should you have any questions concerning these materials, please call at your convenience.

Sincerely,

Michael R. Neumann

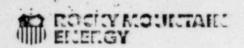
M.R. Neumann

Licensing Specialist

Enclosures

cc: F. Ross/K. Kalman (NRC)

J.A. Yopps
J.A. Yellich
R.E. Iwanicki/P.R. Spieles



MEMORANDUM

PECENTEC 15

Date January 13, 1982

Lyda Hersloff

From:

Pat Spieles

Yot

Subject

Alpha Contamination Survey

Total alpha contamination surveys were conducted in the Nine Mile Lake plant building on October 16, 1981. An Eberline RM-19 alpha meter with a AC-3-8 probe was used. The instrument was calibrated prior to use with 50.9 cpm = 1000 dpm/100 cm².

The results were as follows:

Survey Site	Total dpm/100 cm ²
IX columns exterior	₹200
R/O feed tank exterior	₹ 200
Upper deck railing	< 200
Assay station bench	₹ 200
Lunchroom table	₹200
Yellowcake receiver (exterior)	(200
Yellowcake receiver (interior)	980
Clarifier exterior	<200
Eluant tank 201	790
Reverse osmosis unit	<200
Workshop bench	⟨200
Floor - IX columns	590
Floor - RO feed tank	<200
Floor - Assay station	<300
Floor - Lunch room	₹200
	980
Floor - Yellowcake receiver	
Floor - Eluant tank	<200
Floor - R/O unit	200
Floor - Workshop	₹200

PRS/ima

cc: M. Neumann

7.18-9

THE STATE OF WORING

MRN (86.2.46)

ED HERSCHLER GOVERNOR

Department of Environmental Quality

LAND QUALITY DIVISION

401 WEST 19TH STREET

TELEPHONE 307-777-7756

CHEYENNE, WYOMING 82002

June 5, 1980

Mr. M.R. Neumann Field Environmental Coordinator Rocky Mountain Energy Company PO Box 3719 Casper, WY 82602

RE: License to Explore No. 4

Dear Mr. Neumann:

Enclosed please find a copy of the approved Increase/Decrease Rider for Bond No. 4330515. If you have any questions, please contact our office.

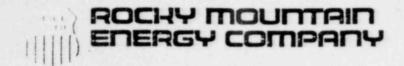
Sincerely,

Lisa Geesey

Adjudicator

LG:sh Enclosure

cc: District IV



May 30, 1980

Mr. Dennis Morrow, District Engineer
District IV, Land Quality Division
DEPARTMENT OF ENVIRONMENTAL QUALITY
30 East Grinnell Street
Sheridan, WY 82801

Dear Mr. Morrow:

RE: Nine Mile Lake, Reclamation Performance Bond

In response to your letter of May 1, 1980, and our last conversation on May 2nd, enclosed is a Reclamation Performance Bond increase rider in the amount of \$458,660.00. This amount, added to the existing bond of \$40,000.00, brings the total bond amount to \$498,660.00, as was requested in your letter of May 1st.

This bond amount reflects the cost of surface and subsurface reclamation for the entire Nine Mile Project, including restoration of the proposed Pattern IV and Cell Number One (Reservoir "C") of the commercial evaporation pond.

If you have any questions, please feel free to give me a call.

Sincerely,

M. R. Neumann

Field Environmental Coordinator

michael R. Neumann

MRN/ph

cc: Glen Mooney (DEQ)
Roger Schaffer (DEQ)
Russ Hynes
Kent Loest



30 EAST GRINNELL STREET

Department of Environmental Quality

LAND QUALITY DIVISION
DISTRICT IV OFFICE
TELEPHONE 307-672-6488

SHERIDAN, WYOMING 82801

May 1, 1980

Mr. Mike Neumann
Field Environmental Coordinator
Rocky Mountain Energy Co.
P.O. Pox 3719
Casper, Wyoming 82602

RE: Nine Mile Lake ISL Uranium Project, LE4

Dear Mr. Neumann:

In response to your letter of April 9, 1980 to Glenn Mooney, the total bond required for the Nine Mile Lake Project is \$498,660. An increase of \$458,660 is needed immediately. We cannot wait for an analysis from your legal department.

The anniversary date for the License for the Nine Mile Project is May 6. Wyoming Stat tes require that bonding be revised yearly. The bond increase for Nine Mile is almost one year overdue. Please initiate action to secure the requested bond increase rider. Please submit the completed bond rider within twenty (20) days of the receipt of this letter.

If you have any questions, please feel free to contact our office.

Sin by,

Dennis Morrow

District IV Engineer

Dain Morrow

DM/kn

cc: Roger Shaffer - LQD - Chey.

Received by: Michael R Newmonn Date: 5/2/80



ED HERSCHLER GOVERNOR

a make to

Department of Environmental Quality

LAND QUALITY DIVISION DISTRICT IV OFFICE

30 EAST GRINNELL STREET

TELEPHONE 307-672-6488

SHERIDAN, WYOMING 82801

· Think

March 27, 1980

Mr. Michael R. Neuman Environmental Specialist Rocky Mountain Energy Co. 4704 Harlan St. Denver, Colorado 80212

RE: Nine Mile Lake Project, License to Explore No. 4

Dear Mr. Neuman:

This letter is in response to your letter of March 21, 1980 enclosing the estimate of reclamation costs for the Nine Mile Project.

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to be for my the difference

Our review of the estimate encountered two problems. First, we must disallow deduction of the salvage value of the reverse osmosis and process equipment. As we pointed out in our meeting on February 22, 1980, it is Land Quality policy not to allow deductions for salvage value for various reasons. We agreed at that time to consider salvage value since title to this equipment would be in the State's name. However, our Cheyenne office has since advised us to disallow the salvage value in this case also as we have no idea if the equipment would have the indicated value or any value at all after use in the projected restoration operation.

The second problem is the request that the reclamation bond estimate be kept confidential. We cannot allow this for two reasons. First, the public has a right to know if the State is upholding its responsibilities in assuring the reclamation of the lands of the State. The assurance of reclamation by holding of reclamation bonds is the primary means of doing this. The public must have some assurance that such bonds are adequate and we are not willing to keep the basic estimates confidential.

The second reason is of a more practical nature. The cost of reclamation used as basis for the bond must reflect the cost to the State of doing the necessary restoration and reclamation, not the cost to the operator. Therefore, the costs must be those incurred by the state going into the open market place on a one time only basis. It is felt the reason RME wishes to keep some of

Rocky Mountain Energy, LE#4 March 27, 1980 Page Two

the cost data confidential is that they reflect discounts given by the various vendors to RME because of your potential market. These discounts would not be available to the State because, hopefully, this situation will seldom arise.

Omitting the salvage value of \$38,000 brings the total bond to \$415,550. Adding a standard 20% contingency for the State's expenses brings the total to \$498,660. The present bond is \$40,000. We therefore request a bond increase in the amount of \$458.660. A form 2LE Increase/Decrease Rider is enclosed for your convenience.

Please call if you have any questions. Thank you for your cooperation.

Sincerely,

Glenn Mooney

Glenn Mooney Geologist

GM/kn

Encl: Form 2LE Increase/Decrease Rider

March 21, 1980

Mr. Dennis Morrow
WYOMING DEQ
Land Quality Division
District IV
30 East Grinnel Street
Sheridan, WY 82801

Dear Mr. Morrow:

RE: Nine Mile Lake Reclamation Bond Estimate; License to Explore #4-A

As agreed upon during our February 22nd meeting in your office, we are submitting with this letter a revised reclamation cost estimate for the Nine Mile Lake Project. This revision replaces the February 21, 1980, estimate, which should be discarded. Included in the revised estimate are the projected costs of restoring an additional test pattern (Pattern IV), which will probably be leached by means of a carbonate lixiviant and the cost of reclaiming a cell of the proposed commercial evaporation pond (not constructed).

Also, in accordance with our February 22nd meeting, RMEC requests that Items II, III, and IV be considered Company Confidential and filed accordingly. For convenience sake, I have enumerated Items II, III and IV on a separate page and included the respective totals only in Part V, Total Reclamation Costs.

We believe that this reclamation cost estimate should provide an adequate basis for the establishment of a reclamation bond. Upon receiving written concurrence from the DEQ, we will procure a bond in the amount agreed upon.

By the way of this letter, RMEC also requests that the bond posted for the hydraulic borehole mining (HBM) operation, License to Explore No. 31, be released at this time. The HBM site was reclaimed during September and October of 1979. Reclamation procedures involved disposing of the liquid effluent and sludge from the impoundment within the borehole cavity. The two cased boreholes were then backfilled to the surface with

Mr. Dennis Morrow March 21, 1980 Page Two

fill and the casing cut off below the ground level. The casing in the observation wells was pulled and the holes plugged below the surface and backfilled to ground level. The two metal tanks, located south of the impoundment, were dismantled and transported from the site.

Finally, the impoundment was backfilled, the entire site graded to approximate original contour, and seeded. Seeding, which was done the last week of October, consisted of drilling the site with a mixture of western wheatgrass, green needlegrass, thick-spike wheatgrass, streambank wheatgrass, yellow sweet clover and alkali sacaton at a rate of 10 pounds P.L.S. per acre. The barbed wire fence around the site has been left in place until such time as the vegetation is capable of withstanding grazing pressure, at which time the fence will be removed.

If you have any questions, please give me a call.

Sincerely,

Mike Neumann

M. R. Neumann Envinromental Specialist Nine Mile Lake

MRN/ph Attachment

cc: K. W. Loest File 86.6.2.13 Glen Mooney (DEQ) R. R. Roberts

1980 ESTIMATE OF RECLAMATION COSTS NINE MILE LAKE ISL TEST SITE

I. Surface Reclamation - Disturbed Areas

		Cost/Acre	Acres	Total Cost
Α.	Evaporation Ponds1			
	1. Backfill & contouring	1430	36	\$51480.00
	2. Ripping & chiseling	30 nt 240	30 36	900.00
	 Topsoil replacement Revegetation (mulching, seeding) 		36	8640.00
	fertilizing) 5. Sludge Haulage	500	36 121000 yd ³	18000.00
	Total Affected Area		36	181870.00
В.	Wellfields - Revegetat	ion		
	1. Pattern II 2. Pattern III 3. Pattern IV	500 500 500	1.3 3.0 3.0	650.00 1500.00 1500.00
	Total Affected Area		10.1	3650.00
C.	Miscellaneous - Revege	etation		
	 Plant site Roads, parking are Office site Topsoil stockpiles Borrow & disturbed areas 	500 500	0.3 4.0 0.5 15.0 5.0	150.00 1500.00 250.00 7500.00 2500.00
	Total Affected Area		24.8	11900.00
		TOTAL	70.9	197420.00

Includes old evaporation pond (six acres), new treated water reservoir (three acres), proposed cell of commercial evaporation reservoir (27-acres)

II. Subsurface Restoration - Pattern III²

			Total Cost
	A. B. C. D.	Sample Analysis - \$315/sample x 36 samples Chemical Reagents	\$35000.00 10000.00 11340.00 3300.00 57500.00
		Subtotal	117140.00
III.	Su	ubsurface Restoration - Pattern IV3	
	В.	Sample Analysis Chemical Reagents Labor, Operating, Overhead Costs	11340.00 1000.00 28750.00
		Subtotal	41090.00
		TOTAL	158230.00
IV.	Dec	commissioning Costs	
		Equipment Removal, Decontamination Well Abandonment	22000.00
		 Pattern wells - 66 @ \$500/well Baseline wells - 16 @ \$250/well Pond monitor wells - 18 @ \$50/well 	33000.00 4000.00 900.00
		Subtotal	59900.00
	c.	Salvage Value	
		1. R.O. circuit 2. Process equipment	(30000.00)
		Subtotal	(38000.00)
		TOTAL	21900.00
	2 _{As}	ssumes 6-month restoration period	
	3 _{As}	ssumes 3-month restoration period	
V.	Tot	tal Reclamation Costs	
	В.	Surface Reclamation Subsurface Restoration Decommissioning	197420.00 158230.00 21900.00
		GRAND TOTAL	\$377550.00

Signed and executed t ROCKY MOUNTAIN ENERG	h.s 20.
BY:	h.s 20th day of May Fond No.4330515 GY COMPANY, A UTAH CORPORATION 1980:
71TLE:	TON
State of	
County of_	ss.
The foregoing increase	
- Strumen	t was acknowledged before me by
Witness my hand and official seal	, this
	day of, 19
	(Notary Public or or)
	(Notary Public or other authorized officer)
	My Commission Expires:
Signed	SURETY
Signed and executed this 2	20th day of
G. Dennie W	May , 19 80 :
Attorney in fact	
State of Nebraska	
County of Douglas) ss.
The foregoing instrument	
The foregoing instrument was	acknowledged before me by
Witness my hand and official seal.	this 20th day of mains Mellechel
A GENERAL PORT	All it land 1977
DELORES M. STOKES My Comm. Exp. Aug. 2, 1981	(Notary Public or other authorized officer)
0 4, 1501	other authorized officer)
	Mu c
	My Commission Expires: Que 12, 197 AGENT FOR SERVICE
RESIDENT	AGENT FOR SERVICE
(Signature)	Date:
(Printed Name)	Address:
Approved as to form and execution:	
Attorney General	
Assistant Assistant	Date:
Administrator, Land Quality Division	Date:
Tr. 12	

State of Wyoming
Department of Environmental Quality
Land Quality Division
Hathaway Building
Cheyenne, Wyoming 82002

RECLAMATION PERFORMANCE BOND INCREASE/DECREASE RIDER

To be attached to and form a part of Surety Company Bond No. 4330515
written by AMERICAN CASUALTY COMPANY OF READING, PENNSYLVANIA, AS SURETY, on behalf of
ROCKY MOUNTAIN ENERGY COMPANY, A UTAH CORPORATION, AS PRINCIPAL, in the sum
Dollars (\$ 40,000.00
in favor of the State of Wyoming and executed on MAY 6, 1978
Whereas, the Department of Environmental Quality, Land Quality Division, issued License to Explore number 4-Al and dated MAY 6, 1978
pursuant to the application of the Principal.
Whereas, said bond and rider shall cover any and all land affected or to be
affected by the exploration operation under the above mentioned license since the date
of issuance of the license.
Now, therefore, the amount of the bond is increased/decreesed by
FOUR HUNDRED FIFTY EIGHT THOUSAND SIX HUNDRED SIXTY Dollars (\$ 458,660.00
to a total sum of FOUR HUNDRED NINETY EIGHT THOUSAND SIX HUNDRED SIXTY
Dollars (\$ 498,660.00), to cover the additional/reduced cost of reclaiming al
affected lands. It is further understood and agreed that all other terms and condit
of this bond shall remain unchanged.

The following land is to be a part of this rider:
Township 35 North, Range 79 West, 6th PM Natrona County
Section 27: SWSE, SESW
Section 34 NENW
including Section 34: N1/2 NE1/4 NW1/4 (20 Acres)
Section 27: SE1/4 SW 1/4 (40 Acres)
W 1/2 SE1/4 (portion (17.7 Acres)
Appendix C

License No. 4-Al