

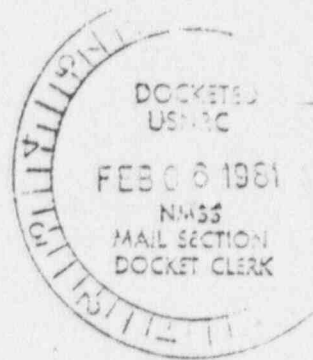
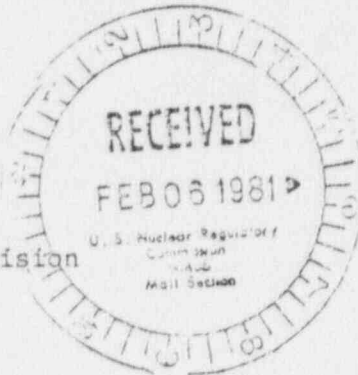
**ROCKY MOUNTAIN
ENERGY COMPANY**

PDR

40-8380

November 19, 1980

Mr. Glen Mooney
DEQ, Land Quality Division
District IV
30 East Grinnell St.
Sheridan, WY 82801



Dear Mr. Mooney:

RE: Nine Mile Lake Pattern 3 Status Report

Attached are the results of the October 7th and November 7th sampling of the Pattern 3 monitor wells. Results demonstrate that there have been no significant changes recently in groundwater quality although it would appear that uranium and vanadium levels in wells M-40 and M-43 have stabilized since production from the pattern was increased during August.

Plans are currently underway to modify the existing water treatment circuit so that restoration of Pattern 3 can begin in the near future.

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

Sincerely,

Michael R. Neumann

Michael R. Neumann
Field Environmental Coordinator

MEU/pa

CC: Mr. Tom Mueller (DEQ, WQD)
Mr. Tony Mancini (DEQ, WQD)
Ms. Margery Hulburt (DEQ, LQD)
Mr. Hub Miller (NRC)
NRC - Region IV
R. E. Iwanicki
P. R. Spiales
3.20-4 (D. Murphy)



8108051016

PATTERN 3

M-40, 40A, 40B

Sample Date	Sample Description	pH	Ln EMF	Cond	Alk	Hard	CO ₃	HCO ₃	Ca	Mg	Na	K	Fe	SO ₄	Cl	V	TDS	Mn	As	Se	U ₃ O ₈		Gross α	Gross β	Pb	Cd	Cu	Th-230
		MV	MV	umhos	mg/l CaCO ₃	mg/l CaCO ₃	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		ppCi/l	ppCi/l	ppCi/l	ppCi/l	ppCi/l	ppCi/l
-40	UCL	6.3		3110					137	85	615	16	1.4	2522	42	0.42	2719		0.04	0.05	0.055				2.24	0.3	1.6	37.9
1/7		6.6		2000										1112		0.23			-	0.014	0.165							
1/7		6.5		2110										1370		0.40			-	0.014								
M-40A																												
1/7		7.2		3400										1755		0.18				0.020	0.025							
1/7		6.8		3400										1837		0.05				-	0.035							
M-40B																												
1/7		6.8		2200										1218		0.05				0.005	0.115							
1/7		6.8		2700										1242		0.05				0.005	0.112							

* Value given is the LCL (Lower Control Limit)

M-43

*Value given is the LCL (Lower Control Limit)

* Value given is the LCL (Lower Control Limit)

PATTERN 3

11-42

Sample Date	Sample Description	pH	Eh MV	Cond umhos/cm	Alk mg/l as CaCO ₃	Hard mg/l as CaCO ₃	CO ₂ mg/l	HCO ₃ mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	Fa mg/l	SO ₄ mg/l	Cl mg/l	V mg/l	TDS mg/l	Mn mg/l	As mg/l	Se mg/l	U ₃ O ₈ mg/l	Com pCa/l	Gross pCa/l	Dis pCa/l	Calc pCa/l	TDS pCa/l
1-42	UCL	6.4		300					80	51	545	14	2.1	1716	47	0.35	2243	0.31	.02	.02	.049			2.15	12.7	62.1
2-17		6.7		330										961		.04			-	-	-					
4-7		6.8		3200										1034		4.05			-	-	-					

* Value given is the LCL (Lower Control Limit)