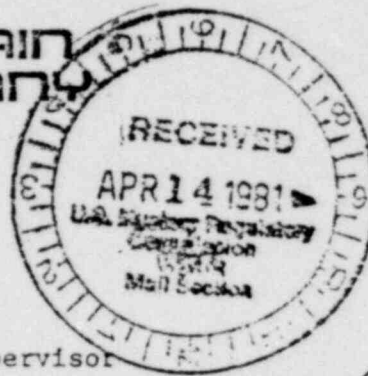


ROCKY MOUNTAIN
ENERGY COMPANY



April 3, 1981

Mr. Richard Chancellor, District Supervisor
DEQ, District IV
Land Quality Division
30 East Grinnell Street
Sheridan, Wy 82801

Dear Mr. Chancellor:

RE: TFN 1 5/186, Nine Mile Lake
Patterns 3 and 4 Status Report



Attached are results of the March sampling of the Pattern 3 and 4 wells at Nine Mile Lake. Also included are arsenic and selenium values for the February sampling of the wells. The Pattern 4 wells are below upper control limits with the exception of vanadium in M-55 and uranium in M-56.

The Pattern 3 wells again show no significant change over the last several months.

Restoration of Pattern 4 continues while Pattern 3 is being maintained at a 10-15 gpm production rate with no injection.

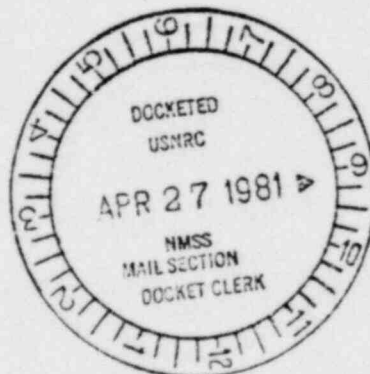
Please call if you have any questions.

Sincerely,

Michael R. Neumann
Michael R. Neumann
Field Environmental Coordinator



MRN/pa
cc: Margery Hulburt (DEQ)
Tony Mancini (DEQ)
Tom Mueller (DEQ)
Fred Ross (NRC)
R. E. Hynes
NRC Region IV
8.20-4



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FEE EXEMPT

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Sample Date	Sample Description	pH	Eh EMF MV	Cond µmhos	Alk mg/l CaCO ₃	CO ₃ mg/l	HCO ₃ mg/l	Ce mg/l	Mg mg/l	Na mg/l	K mg/l	Fe mg/l	SO ₄ mg/l	Cl mg/l	V mg/l	TDS mg/l	Mn mg/l	As mg/l	Sc mg/l	U ₃ O ₈ mg/l	Gross α	Gross β	Pb 210 pCi/l	Po 210 pCi/l	Ra 226 pCi/l	Th 230 pCi/l	
M-41	UCL	6.3						91	48	546	14	0.99	1582	40	0.33	1429	0.34	0.04	0.04	0.07				24.9	17.4	306	2.6
2/3/81		6.7		3200									1650		0.26	1648		0.0015		0.082							
3/10/81																											

* Value given is the LCL (Lower Control Limit)

Sample Date	Sample Description	pH	Eh EMF MV	Cond umhos	Alk mg/l CaCO ₃	Hard mg/l CaCO ₃	CO ₂ mg/l	HCO ₃ mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	Fe mg/l	SO ₄ mg/l	Cl mg/l	V mg/l	TDS mg/l	Mn mg/l	A mg/l	So mg/l	U ₃ O ₈ mg/l	Gross α mg/l	Gross β mg/l	Pb-210 pCi/l	Po-210 pCi/l	Hg-226 pCi/l	Th-232 pCi/l
M-42	UCL	6.4						80	51	545	14	2.1	1716	47	0.39	2245	0.31	0.02	0.02	0.02	0.099		0.45	17.7	62.1	2.6	
2/3/81																			0.006	0.002							
3/10/81		6.79		2000										1099	0.09	1720					0.076						

.....*..Value given is the LCL (Lower Control Limit)

Sample Date	Sample Description	pH	Eh EMF MV	Cond umhos/cm	Alk mg/l as CaCO ₃	Hard mg/l	CO ₃ HCO ₃ mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	Fe 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	Gross α pCi/l	Pb-210 pCi/l	Po-210 pCi/l	Ra-226 pCi/l	Th-230 pCi/l
11-4-83	UCL	6.4						94	49	544	14	0.93	1266	43	0.29	2375	0.05	0.02	0.035			8.2	240	70.9	3.8
2/3/81		7.2		2500									1186		0.27	1900		0.075	0.002	0.584					
3/10/81																									

*Value given is the LCL (Lower Control Limit) ...

POOR ORIGINAL