



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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May 30, 1988

TO: John Whitehead, Permit Supervisor
FROM: Tom Munson, Reclamation Hydrologist *TM*
RE: Review of Plateau's Water Monitoring Amendment, Plateau Mining Company, Star Point Mine, ACT/007/006-88A, File Folder #2, Carbon County, Utah

Synopsis

The operator was requested to amend the water monitoring portion of their PAP in the Division's permit approval process for the Star Point Mine. The operator submitted an amendment entitled "Clarification of Hydrologic Plan" on March 30, 1988. This amendment included tables addressing frequency and parameters for all water monitoring stations. The operator also submitted tables 81 and 82 in response to Stipulation UMC 817.52, 2B. A review of the operator's Hydrologic Annual Report was completed on ~~May 24~~, **APRIL 29** 1988. The fact that all three items are part of the complete monitoring plan required a comprehensive review of all three items.

Prior to the completion of this memo and following the review, a meeting was held with Ben Grimes of Plateau Mining Company on May 25, 1988 at the Division's office to discuss the results of this review. The operator was made aware of the changes addressed in this memo at this time. The operator was asked at this meeting to implement the changes to his monitoring plan this year and he agreed to do so.

Analysis

Presentation of Plateau's current monitoring proposal and the Division's recommendations regarding completeness of data collection at all surface and ground water stations follows in the Recommendation section.

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The operator has failed to provide sufficient baseline data for many sites which the operator feels are adequate. The operator proposes the frequency of sampling and parameters to be sampled, which were incorrect, in Table 80, 81, and 82 and in the PAP, pages 784-82a through 784-82b. A review of past data collection efforts (1979-87) from the 1987 annual Hydrologic Monitoring Report, the stipulations spelled out in the Division's decision document, and the revisions to the PAP text submitted by Plateau, as well as, Table 80, 81, and 82 lead to the following recommendations for the operator to follow.

Recommendations

Approval with conditions:

Conditions

1) The operator needs to revise the PAP language on pages UMC 784-82b and 784-82c to reflect the proper commitments agreed to on page 18, of the Division's Decision Document, specifically the second paragraph under the compliance section of regulation UMC 817.52.

2) The operator must revise Table 80 to reflect the following sampling frequencies for springs. Baseline and Operations water quality samples will be taken three times a year with at least one month between sampling dates. The following combination of months is acceptable to the division. May, July and September would be acceptable months to take water quality samples with June and August acceptable as field water quality parameter months. June can be an alternative month for May, when access is a problem.

For streams and surface water sites the following frequencies are acceptable to the Division. Quarterly for lakes reservoir and impoundments (water level and quality); monthly field measurements and quarterly water quality measurements (one sample at low flow and high flow each) for perennial streams. Monthly field and water quality measurements during period of flow for intermittent streams and ephemeral streams. When accessibility is a problem, then the operator will use the same sampling frequency spelled out for springs.

For underground in-mine wells and in-mine flows a January, April, July, and October sampling date is acceptable to the Division for operational and baseline monitoring.

The operator needs to revise his table 80 accordingly.

2) The following list compiles the Division's assessment of Plateau's water monitoring through 1987 and where additional monitoring is required, it is stated.

PLATEAU'S CURRENT PROPOSAL			DIVISION COMPLIANCE
SPRINGS	<u>BASELINE</u>	<u>OPERATIONAL</u>	
530		X	1 more yr. baseline
511-7		X	Operational O.K.
751		X	Operational O.K.
748		X	Operational O.K.
518	X	X	1 more yr. baseline
749		1994	1 more yr. baseline
429	X		2 years baseline
444	X		2 Years baseline
514-9		1994	Operational O.K.
85-26-7		1994	Operational O.K.
978		X	1 baseline sample (high flow 1988)
753		X	Operational O.K.
299		X	1 baseline sample (high flow 1988)
238	X		2 years baseline
494	X		2 years baseline
518-2		X	Operational O.K.
500	X		1 year baseline
10-7		X	Operational O.K.
36-7		X	Operational O.K.
5-7		X	Operational O.K.
5T-7		X	Operational O.K.
5T-2		X	Operational O.K.
M-8	X		2 years baseline
34-7		X	Operational O.K.
34-2		X	Operational O.K.
<u>WELLS</u>	<u>WATER LEVEL</u>		<u>WATER LEVEL O.K.</u>
86-26-4	X		X
86-26-6	X		X
86-18-2	X		X
P86-01-TD	X		X
P86-02-HO	X		X
P86-03-WD	X		X
85-35-7F	Operational quality		Operational O.K.
86-35-2-3F	Operational quality		Operational O.K.

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IN-MINE

4	X	Operational O.K.
6	X	Operational O.K.
12	X	Operational O.K.
Mudwater	X	Operational O.K.

4. The operator must submit revised Text and Tables to the Division by June 26, 1988 incorporating the appropriate changes.

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