PACIFIC POWER • UTAH POWER

324 South State
P.O. Box 26128
Salt Lake City, Utah 84126-0128

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Copy Jim, Bill M, Henry, Pam

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MAY 16 1991

DIVISION OF
OIL GAS & MINING

PACIFICORP
ELECTRIC OPERATIONS GROUP

May 13, 1991

Ms. Pamela Grubaugh-Littig
Permit Supervisor
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: FINAL ABATEMENT DEFICIENCIES FOR NOV 91-32-3-1, PACIFICORP ELECTRIC OPERATIONS, COTTONWOOD/WILBERG MINE, ACT/015/019. #2

Dear Pamela:

As requested in your May 3rd letter and telephone conversations with Division staff members, I am enclosing the following design information, strawbale/gravel filter calculation and 2 drawings, as response to submittal deficiencies for NOV 91-32-3-1. This additional submittal information along with the initial submittal drawing will answer concerns regarding the strawbale/gravel filter.

Maintenance of the strawbale/gravel filter will be the responsibility of PacifiCorp and will be scheduled for cleaning as required.

Upon approval the proposed abatement work will be scheduled and constructed. After completion the Facilities Map will be revised and submitted to the Division.

If you have any questions, please call Guy Davis at 653-2312 or myself at 220-4584.

Sincerely,

Guy Davis (for)

J. Blake Webster
Permitting Administrator

GD/do
Enclosure

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DIVISION OF
OIL GAS & MINING

STRAWBALE/GRAVEL FILTER CALCULATIONS

RUNOFF VOLUME - 2 YR/24 HR EVENT

AREA - APPROX. 16,250 SQ.FT.

CN - 98

PRECIPITATION - 1.2 IN.

EQUATIONS:

$$Q = \frac{(P - 0.2S)^2}{P + 0.8S}$$

$$S = \frac{1000}{CN} - 10$$

WHERE:

P = PRECIPITAION

Q = RUNOFF DEPTH

CN = CURVE NUMBER

S = MAX. INFILTRATION DEPTH

CALCULATIONS:

$$S = \frac{1000}{CN} - 10 = .20$$

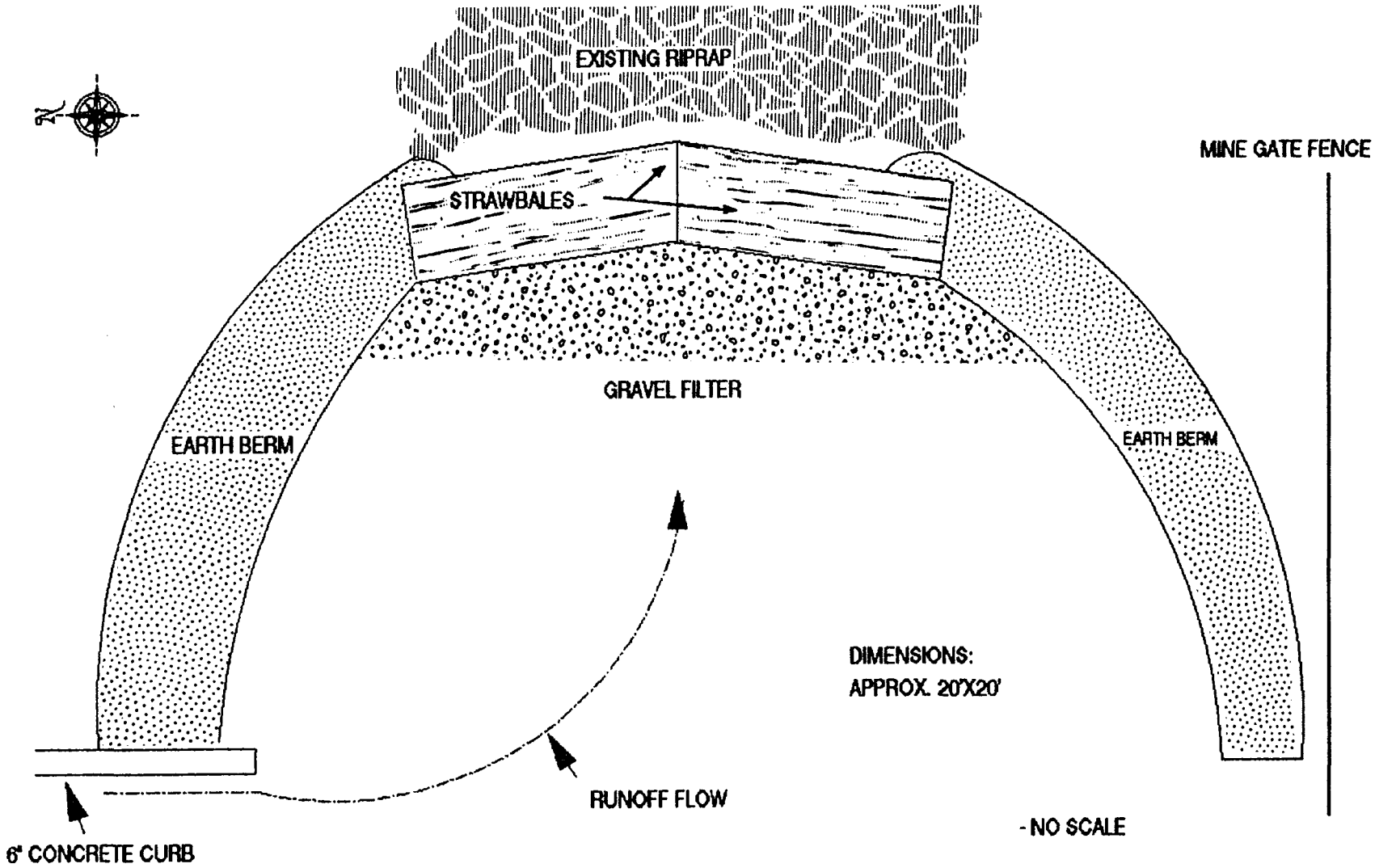
$$Q = \frac{(1.2 - .04)^2}{1.2 + .16} = \frac{1.35}{1.36} = .99 \text{ INCHES}$$

$$16{,}250 \text{ SQ.FT. X } .99 = \frac{16087}{12} = 1340.6 \text{ CU. FT.}$$

APPROX. BASIN CAPACITY:

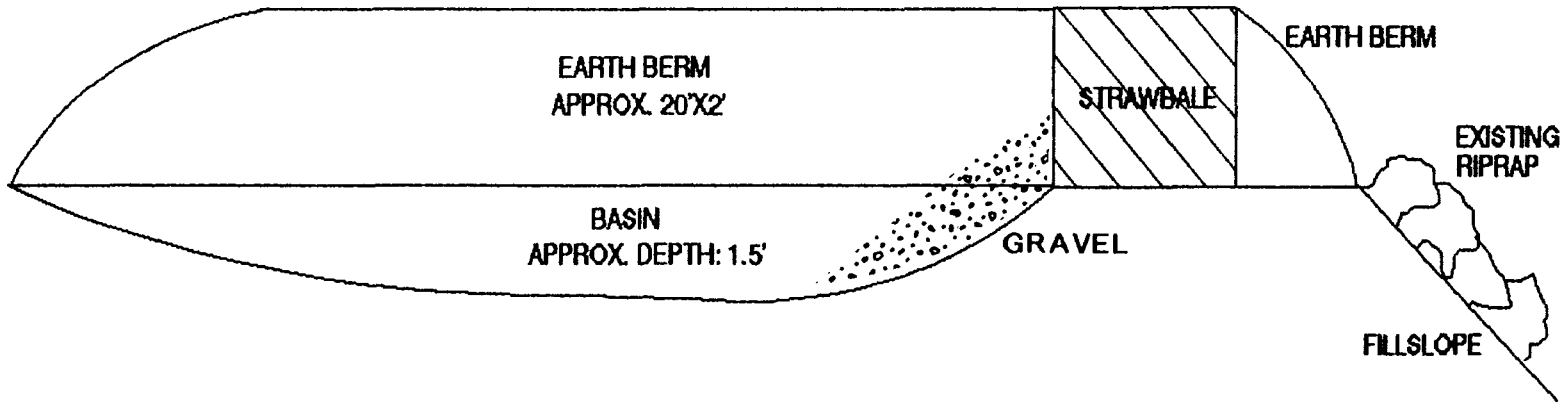
20' X 20' X 3.5' = 1400 CU. FT.

STRAWBALE/GRAVEL FILTER - PLAN VIEW
COTTONWOOD MINE



STRAWBALE/GRAVEL FILTER - CROSS SECTION

COTTONWOOD MINE



* NO SCALE

RUNOFF CAPACITY: 1400 CU.FT.

DRAINAGE AREA: 16250 SQ.FT.