

POND ANALYSIS SHEET
MARY COMBS, CLAIM NO. 94-9298
T47N R2W SECTION 7 NW1/4NE1/4 & NE1/4NE1/4

SOURCE: DIFFUSED WATER TRIBUTARY TO: SINKS

DIMENSIONS OF POND: 47 YD (564') X 13 YD (156') X 6 FT DEEP (AS MEASURED BY CLAIMANT)

SURFACE AREA: 564 FT X 156 FT = 87,984 SQ FT

87,984 SQ FT / 43,560 CU FT = 2.02 ACRES

TOTAL POND SIZE: 2.02 ACRES X 6 FT = 12.12 ACRES

EVAPORATION = 5485 GPD X 245 DAYS / 325,850 GAL/AF = 4.12 AF

SEEPAGE = 0

STOCKWATER USAGE = 20 HEAD HORSES X 12 GPD X 365 DAYS/YR / 325,850 GAL/AF = 0.27 AF

STOCKWATER STORAGE:	A. POND SIZE	12.1 AF
	B. EVAPORATION	4.1 AF
	C. SEEPAGE	0
	D. STOCK	<u>0.3 AF</u>
	TOTAL	16.5 AF

INPUTS

CLAIM 94-9298 MARY COMBS

NOTES/SUGGESTED VALUES

POND

SURFACE AREA (SQFT) ----- 87984

AVERAGE DEPTH (FT) ----- 6.00

FILL OR REFILL RATE (CFS) ----- 0

USE 0 IF FILLED NATURALLY FROM GW

CONVERT TO GPD -----

0 GPD

EVAPORATION (IN/DAY) ----- 0.1

IF UNKNOWN, USE REFERENCE ETpk80 FROM ABOVE

CONVERT TO GPD -----

5485 GPD

EVAPORATION (GPYper year) ----- 2001912.886
6.143663912 AFPY

4.123829201 AFPY AT 245 DAY IN THE YEAR (FROZEN)

SEEPAGE RATE (FT/DAY) ----- 0.00

SEEPAGE RATE (GPY per year) ----- 0

SEEPAGE RATE (AF PER YEAR) ----- 0 AF

SUGGESTED VALUES FOR DIFFERENT SOIL TYPES:

(FT/DAY) 0 = NATURALLY FILLED FROM GW, OR LINED

(FT/DAY) 0.001 = CLAY SOILS

(FT/DAY) 0.01 = Ponds with vegetation, aquatic life.

(FT/DAY) 0.1 = SANDS/GRAVELS MIX (APPROX 30% OF VOLUME LOSS IN SEEPAGE)

CONVERT TO GPD -----

0

GPD

RESULTS

TOTAL AF FOR THIS WATER RIGHT -----

0.0 AF

IRRIGATION -----

0 AF

SEEPAGE AF -----

0.0 AF

EVAPORATION (GPYper year) -----

4.1 AFPY

POND SIZE -----

12.1 AF

CAPACITY -----

527904 CUFT

3948722 G

REFERENCE EXAMPLE:

ESTIMATED NUMBER OF DAYS

TO FILL BASED ON PROVIDED

INPUTS -----

NA DAYS
NA HR