

LOCATION MAP

SCALE: 1" = 2000'

NOTE: COORDINATES SHOWN ARE MINE COORDINATES, NOT WYOMING STATE PLANE COORDINATES

PLAN VIEW

SCALE: 1" = 200'

GEOTECHNICAL BORING LOCATIONS

HP-2 EVAPORATION POND BORINGS  
(10-20) TOTAL DEPTH DRILLED 20'

EVAPORATION PONDS (TWO REQUIRED WITH SAME DIMENSIONS)  
VOLUME CALCULATIONS (USING PRISMOIDAL FORMULA)  
OPTION A (SINGLE LINER OPTION)

A. CAPACITY AT HWL (MAXIMUM OPERATING LEVEL)

TOP AREA = 1.09 ac  
BOTTOM AREA = 0.48 ac  
MIDDLE AREA = 0.77 ac  
DEPTH = 8.5 ft  
VOLUME = 6.58 ac-ft

B. CAPACITY AT NWL (NORMAL OPERATING LEVEL)

TOP AREA = 0.82 ac  
BOTTOM AREA = 0.48 ac  
MIDDLE AREA = 0.65 ac  
DEPTH = 5.0 ft  
VOLUME = 3.24 ac-ft

C. AUXILIARY CAPACITY

= CAPACITY AT HWL - CAPACITY AT NWL  
= 6.58 - 3.24 = 3.34 ac-ft

NOTE: AUXILIARY CAPACITY (3.34 ac-ft) EXCEEDS THE NORMAL OPERATING CAPACITY (3.24 ac-ft) FOR EACH POND SUCH THAT THE ENTIRE CONTENTS OF EITHER POND CAN BE TRANSFERRED TO THE OTHER WHILE STILL MAINTAINING 1.0 FT OF FREEBOARD.

EVAPORATION PONDS (TWO REQUIRED WITH SAME DIMENSIONS)  
VOLUME CALCULATIONS (USING PRISMOIDAL FORMULA)  
OPTION B (DOUBLE LINER OPTION)

A. CAPACITY AT HWL (MAXIMUM OPERATING LEVEL)

TOP AREA = 0.94 ac  
BOTTOM AREA = 0.49 ac  
MIDDLE AREA = 0.70 ac  
DEPTH = 9.5 ft  
VOLUME = 6.71 ac-ft

B. CAPACITY AT NWL (NORMAL OPERATING LEVEL)

TOP AREA = 0.73 ac  
BOTTOM AREA = 0.49 ac  
MIDDLE AREA = 0.61 ac  
DEPTH = 5.4 ft  
VOLUME = 3.29 ac-ft

C. AUXILIARY CAPACITY

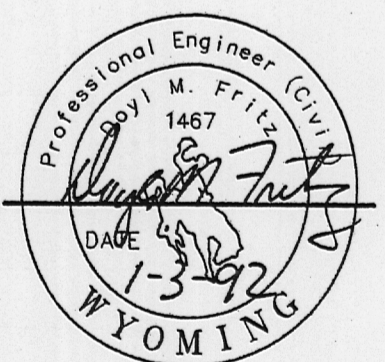
= CAPACITY AT HWL - CAPACITY AT NWL  
= 6.71 - 3.29 = 3.42 ac-ft

NOTE: AUXILIARY CAPACITY (3.42 ac-ft) EXCEEDS THE NORMAL OPERATING CAPACITY (3.29 ac-ft) FOR EACH POND SUCH THAT THE ENTIRE CONTENTS OF EITHER POND CAN BE TRANSFERRED TO THE OTHER WHILE STILL MAINTAINING 1.0 FT OF FREEBOARD.

CERTIFICATE OF ENGINEER

STATE OF WYOMING)  
COUNTY OF SHERIDAN) SS

I, Doyle M. Fritz, hereby certify that these drawings were prepared by myself or under my direct supervision based on topographic maps supplied by Pathfinder Mines Corporation and that they correctly represent the facilities described in the accompanying application which are designed to meet the requirements of the Wyoming Environmental Quality Act and its regulations.



SHEET 1 OF 5

POWER RESOURCES, INC.

LOCATION MAP AND  
PLAN VIEW,  
NORTH BUTTE ISL PROJECT  
EVAPORATION PONDS

REVISIONS  
Date By

**WWC**  
**ENGINEERING**  
A DIVISION OF WESTERN WATER CONSULTANTS, INC.

• CIVIL • MINING • CONSTRUCTION ENGINEERING •

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FILE: PB\_SH1 Drawn By: RAM Checked By: DMF Date: 12-11-91 Scale: AS SHOWN

CHANGE NO. 5

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