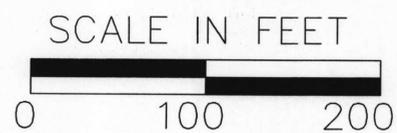
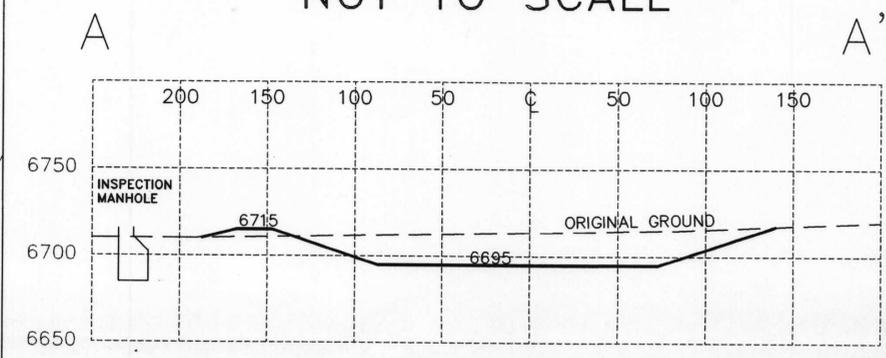


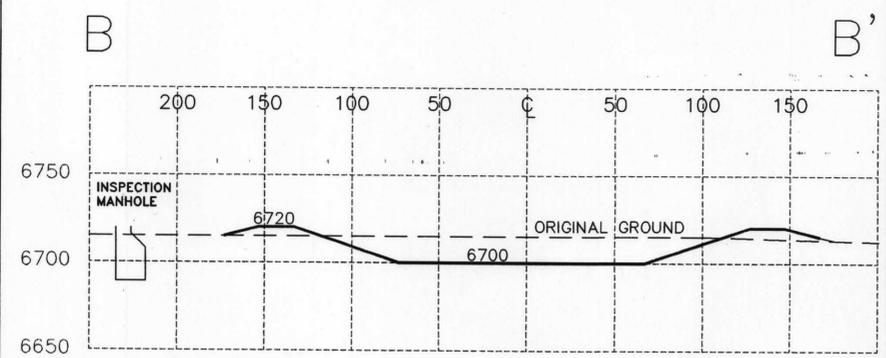
PONDS #1 & #2 - PLAN VIEW



POND CROSS SECTIONS NOT TO SCALE

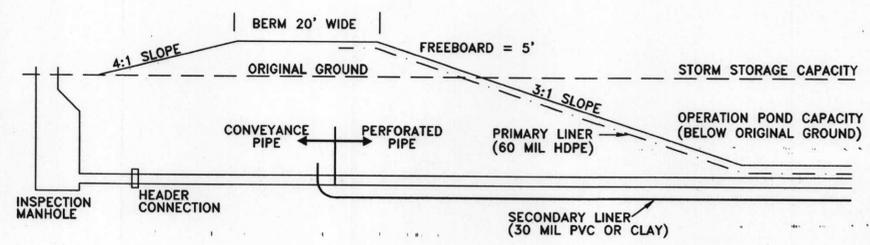


POND #1



POND #2

TYPICAL DETAILS NOT TO SCALE



APERTURE CARD

NOTES

- GENERAL CONSTRUCTION REQUIREMENTS:
1. ALL EXCAVATION CUT SURFACES AND EMBANKMENTS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
 2. GRANULAR BEDDING MATERIAL SHALL BE COMPACTED TO 90% OF STANDARD PROCTOR DENSITY.
 3. SECONDARY LINER SHALL BE CONSTRUCTED OF NATIVE SOILS OR A SYNTHETIC LINER, AS DETERMINED BY THE ENGINEER.
 4. AN AUTOMATIC SUMP PUMP SHALL BE INSTALLED IN THE INSPECTION MANHOLE WITH A FLOAT SWITCH AND DISCHARGE PIPE BACK INTO THE EVAPORATION POND.
 5. INFLUENT PIPES SHALL BE PLACED SUCH THAT THE PIPE INVERT IS AT LEAST SIX INCHES ABOVE THE MAXIMUM OPERATING LEVEL OF THE POND.
 6. A VENTED CLEANOUT WYE SHALL BE INSTALLED PRIOR TO THE ENTRANCE OF THE INFLUENT PIPE INTO THE PONDS, LOCATED CLOSE TO THE POND EMBANKMENT.
 7. ALL EMBANKMENTS AND DISTURBED AREAS WHICH ARE NOT BELOW THE INTERNAL OPERATING LEVEL OF THE PONDS SHALL BE SEEDED WITH DRYLAND GRASSES TO PREVENT EROSION.
 8. PERIMETER FENCES SHALL BE INSTALLED AROUND ALL PONDS, CAPABLE OF KEEPING LIVESTOCK AND WILDLIFE FROM ENTERING THE AREAS (NOT SHOWN).

- CONSTRUCTION INSPECTION AND QUALITY CONTROL:
1. DURING CONSTRUCTION, SITE INSPECTION AND QUALITY CONTROL TESTING SHALL BE COMPLETED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER DULY REGISTERED IN THE STATE OF WYOMING AND EXPERIENCED IN SIMILAR CONSTRUCTION REQUIREMENTS AND/OR METHODS.

- PERFORATED PIPE SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATIONS:
1. NOMINAL INSIDE DIAMETER 4 INCHES.
 2. PIPE STIFFNESS RATING 50 PSI.
 3. WATER INLET AREA 2.95 SQUARE INCHES PER LINEAR FOOT.
 4. MAXIMUM PERFORATION DIMENSIONS (MANUFACTURER); DRILLED HOLE DIAMETER 3/16 INCH; SLOTTED HOLES WIDTH 1/8 INCH (3.18 MM), LENGTH 7/8 INCH (22.2MM).
 5. COMPLETELY ENCASED IN GEOTEXTILE FABRIC.

- CONVEYANCE PIPE SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATIONS:
1. NOMINAL INSIDE DIAMETER 4 INCHES.
 2. PIPE STIFFNESS RATING 50 PSI.
 3. HDPE OR SDR 35 PIPE.
 4. WATER TIGHT CONNECTIONS.

- PRIMARY LINERS SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATIONS:
1. NOMINAL THICKNESS (GAUGE) SHALL BE AT LEAST 60 MIL (1.5 MM).
 2. MINIMUM TENSILE STRENGTH AT BREAK SHALL BE AT LEAST 240 LBS/INCH WIDTH.
 3. MINIMUM PUNCTURE RESISTANCE SHALL BE AT LEAST 270 LBS.
 4. LINER INSTALLATION, INCLUDING PERFORMANCE AND INSPECTION, SHALL MEET OR EXCEED THE LINER MANUFACTURER'S RECOMMENDATIONS.

SITE LOCATION

PONDS ARE LOCATED IN FREMONT COUNTY: NW1/4, SECTION 28, T33N, R89W. (REFER TO PRI GAS HILL PROJECT, MINING PERMIT, PLATE OP-1E.)

POND STORAGE CAPACITIES

NOTE: PONDS #1 AND #2 ARE EQUAL IN SIZE AND VOLUME.

POND #1 CONTOUR (ELEVATION)	POND #2 CONTOUR (ELEVATION)	AREA (ACRES)	AVERAGE (ACRES)	CAPACITY (ACRE-FEET)
6695	6700	0.50		
			0.62	3.10
6700	6705	0.74		
			0.87	4.35
6705	6710	1.00		
			1.15	5.75
6710	6715	1.30		
			1.49	7.45
6715	6720	1.67		

TOTAL AVAILABLE STORAGE CAPACITY = 13.20 ACRE-FEET
TOTAL AVAILABLE FREEBOARD CAPACITY = 7.45 ACRE-FEET

LEGEND

- EXISTING TOPOGRAPHY
- DESIGN CONTOURS
- STORMWATER CUTOFF DITCH

REVISION DATE: 3/98
LAST PLOT DATE:
CAD FILENAME: NRCPL3-1

POWER RESOURCES, INC.

NO. _____ REVISION _____ DATE BY _____ ISSUED FOR _____ DATE BY _____

SCALE: AS SHOWN DATE: 12/28/97 DWG. NO. _____ REV. _____

CHECKED: _____

APPROVED: _____

PLATE 3-1

GAS HILLS PROJECT
EVAPORATION POND DESIGN LAYOUT
FREMONT AND NATRONA COUNTIES, WY