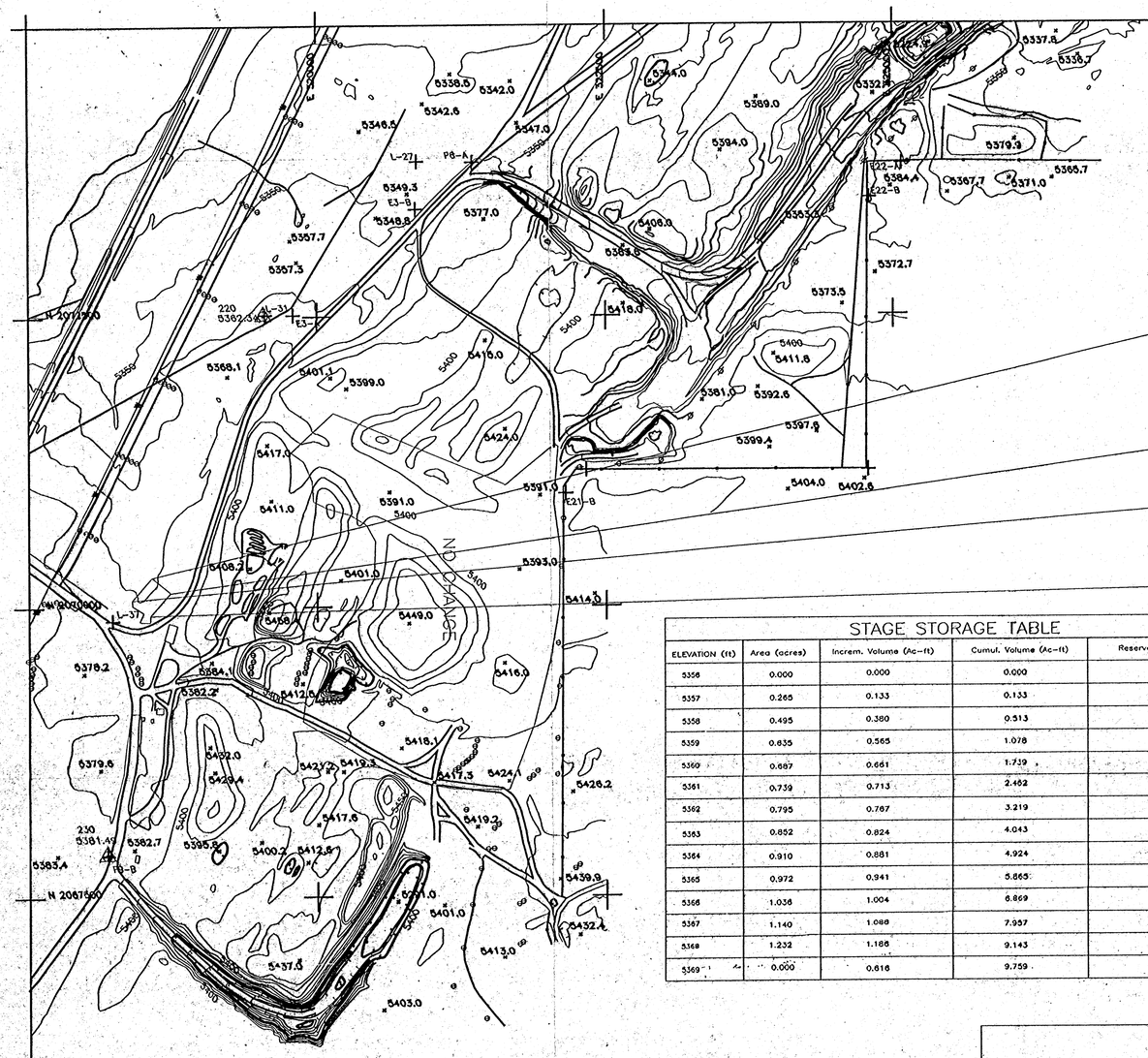
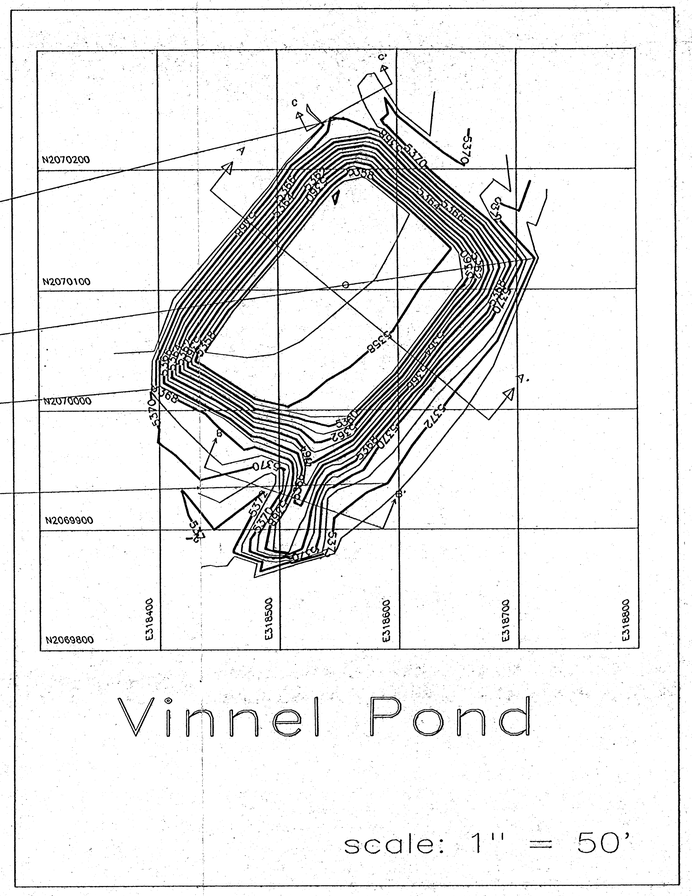


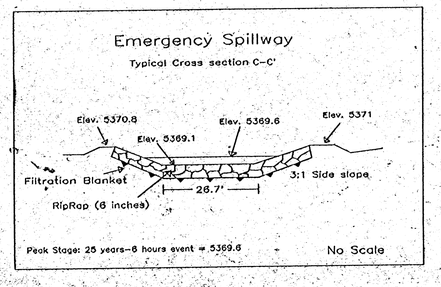


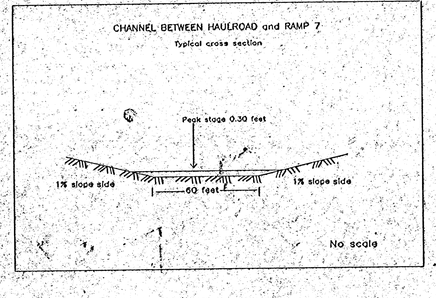
Vinnel Pond

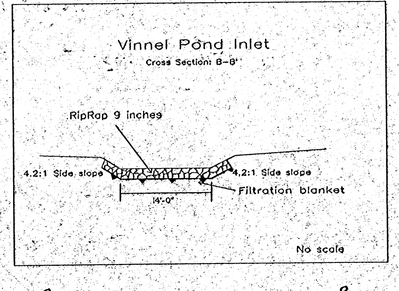
scale: 1" = 50'

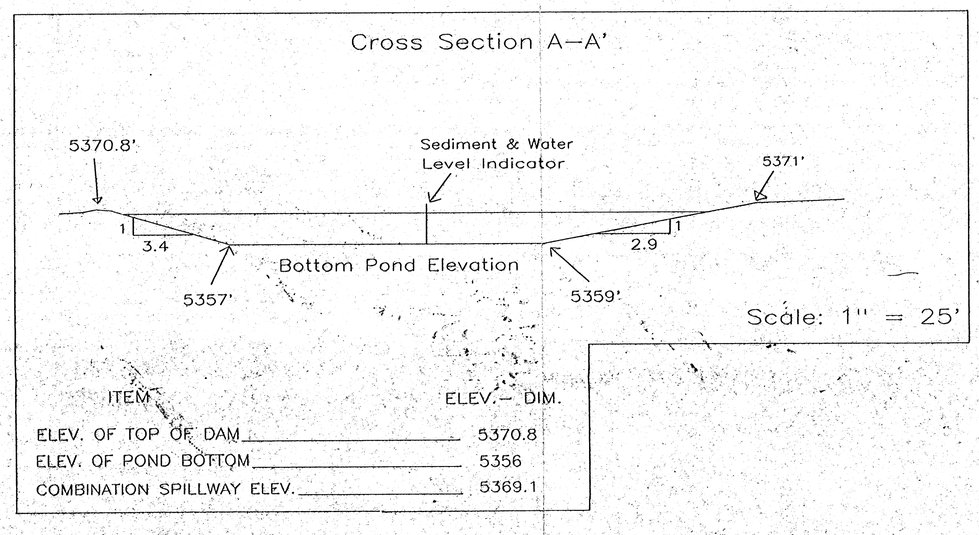
STAGE STORAGE TABLE

ELEVATION (ft)	Area (acres)	Increm. Volume (Ac-ft)	Cumul. Volume (Ac-ft)	Reserve Volume (Ac-ft)
5356	0.000	0.000	0.000	9.759
5357	0.265	0.133	0.133	9.626
5358	0.495	0.380	0.513	9.246
5359	0.635	0.565	1.078	8.681
5360	0.687	0.661	1.739	8.020
5361	0.739	0.713	2.452	7.307
5362	0.795	0.767	3.219	6.540
5363	0.852	0.824	4.043	5.716
5364	0.910	0.881	4.924	4.835
5365	0.972	0.941	5.865	3.894
5366	1.036	1.004	6.869	2.890
5367	1.140	1.088	7.957	1.802
5368	1.232	1.186	9.143	0.616
5369	0.000	0.616	9.759	0.000









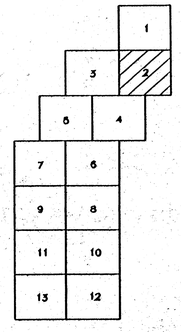
ITEM	ELEV.- DIM.
ELEV. OF TOP OF DAM	5370.8
ELEV. OF POND BOTTOM	5356
COMBINATION SPILLWAY ELEV.	5369.1

LEGEND

- PAVED ROAD
- DIRT ROAD
- HAUL ROAD
- TRAIL
- BUILDING
- FENCE
- CULVERT
- DAM
- DRAINAGE
- RAILROAD
- TREES
- POLES
- 5338.5 SPOT ELEVATION
- 5300 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- 218 5422.45 HORIZ. & VERT. CONTROL
- L-30 LEASE CORNER

NOTES:

1. GAUGE POST BASE ELEVATION 5357.8 GPS.
2. FOR BLUELINE ELEVATION REFER TO TABLE II-5AF IN THE PAP.



N

500 0 500 1000

CONTOUR INTERVAL: 10'
DATE OF PHOTOGRAPHY: 10-26-91

Revised by
DATAMAP
DIGITAL SERVICES, INC.
Revision photography May 30, 1993

Construction Certification and Inspection Report

Vinnel Pond construction have been in accordance with the approved design except for these noted minor changes:

1. Pond length, width, top and bottom elevations, spillway width and Elevation varied slightly from the design plan, however the as-built volume is greater than the designed volume and does not affect the safety operation of the pond.
2. The inlet channel width was increased to 60 feet with a flatter slope to accommodate the flow rates and field limitations.

I, Steve Robert Flanmang, hereby certify this as-built information concerning the Vinnel Pond is being complete and accurate to the best of my knowledge.

MAR 1999 APPROVED

As-Built

LEONARD RAYMOND NEW MEXICO 6600 REGISTERED PROFESSIONAL ENGINEER

9-25-98

BHP Minerals International
NAVAJO MINE
FRUITLAND, NEW MEXICO

Vinnel Pond

DRAWN BY SJP	SCALE 1" = 500'
APPROVED BY	DATE May 1994
DRAWING NO EXHIBIT II-46A	LOCATION NO