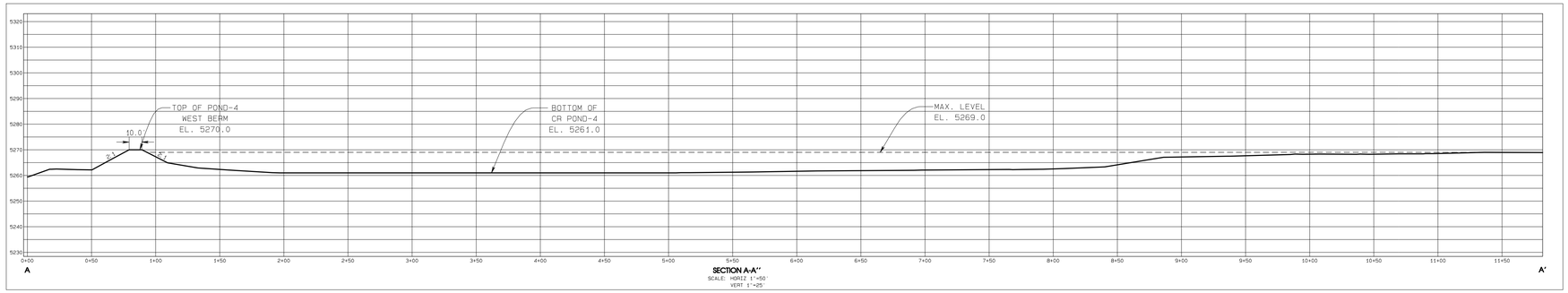
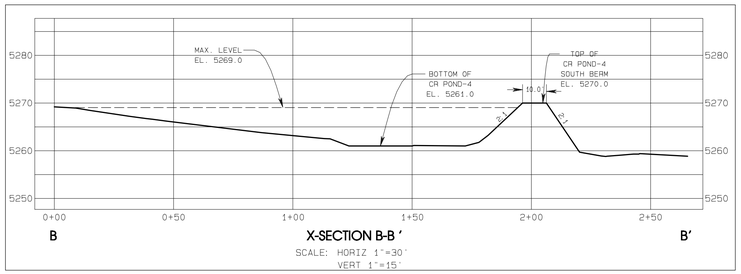
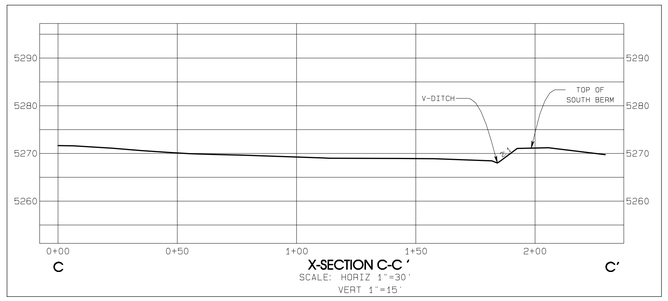


SECTION A-A''
SCALE: HORIZ 1"=50'
VERT 1"=25'



X-SECTION B-B'
SCALE: HORIZ 1"=30'
VERT 1"=15'



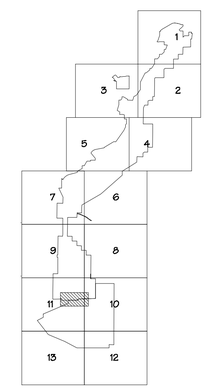
X-SECTION C-C'
SCALE: HORIZ 1"=30'
VERT 1"=15'

LEGEND

- ROAD
- WATERSHED
- BUILDING
- FENCE
- IRRIGATION LINE
- CULVERT
- DAM
- DRAINAGE
- RAILROAD
- TREES
- POWERLINE
- ×5338.5 SPOT ELEVATION
- 5300 INDEX CONTOUR
- 5298 INTERMEDIATE CONTOUR
- 218 5422.45
- L-30 LEASE CORNER
- PERMIT/LEASE BOUNDARY

NOTES

1. For hydrology and design information refer to Appendix 11-AA in the approved PAP.
2. Refer to Table 11-5 for additional data.



SCALE AS NOTED

CR POND-4
STAGE STORAGE DATA

ELEV feet	AREA acres	VOLUME ac-ft	CUM. VOLUME ac-ft
5261	0.319	0.0	0.0
5262	0.660	0.5	0.5
5263	1.036	0.8	1.3
5264	1.296	1.2	2.5
5265	1.524	1.4	3.9
5266	1.730	1.6	5.5
5267	1.938	1.8	7.4
5268	2.179	2.1	9.4
5269	2.646	2.4	11.8

Pond Crest Elevation-5270.0
As-Built Volume at Crest (Ac-Ft)-11.84

CERTIFICATION STATEMENT

I, Ron C. Van Valkenburg, hereby certify that this embankment has been constructed in accordance with the approved design plans and that the information shown is complete and accurate to the best of my knowledge except as noted below:
1. Approximatley 1,000 feet of the embankment extension was removed at the East end to construct the Cottonwood Crossing Haulroad. This reduced the watershed area for CR Pond-4.The hydrology for the pond was revised accordingly. See Appendix 11-AA for supporting data.

RON C. VAN VALKENBURG
NEW MEXICO
9263
LICENSED PROFESSIONAL ENGINEER

REVISION	DATE
1 PREPARED AS-BUILT FOR CR POND-4 AND SUBMITTED TO GSM FOR REVIEW	DEC. 17, 2009

PROJECT MANAGER: F. GOODMAN
ENGR. of RECORD: RON C. VAN VALKENBURG
REG. NO: NM 9263
SRVYR of RECORD:
REG. NO:

bhpbilliton
NAVAJO COAL COMPANY
NAVAJO MINE
PO BOX 1717, FRUITLAND, NEW MEXICO, 87416 PHONE 505-598-3209/FAX 505-598-3361

PROJECT: AREA-3 CR POND-4 AS-BUILT
DATE: DEC. 14, 2009
PREPARED BY: PJFOSTER
DRAWN BY: PJFOSTER
CHECKED BY: RON C. VAN VALKENBURG
APPROVED BY: RON C. VAN VALKENBURG

X-SECTIONS

EXHIBIT 11-109
CR POND-4
AS-BUILT

DRAWING
PLAN2

SHEET 2
OF 2

G:\Gis\Permit F\Ch 11\Exh 11-109_S Dixon CR Pd 4\As-Built\Exh 11-109_Ch-Pond-4 As-Built.prp
Mon Mar 07 08:05:33 2011