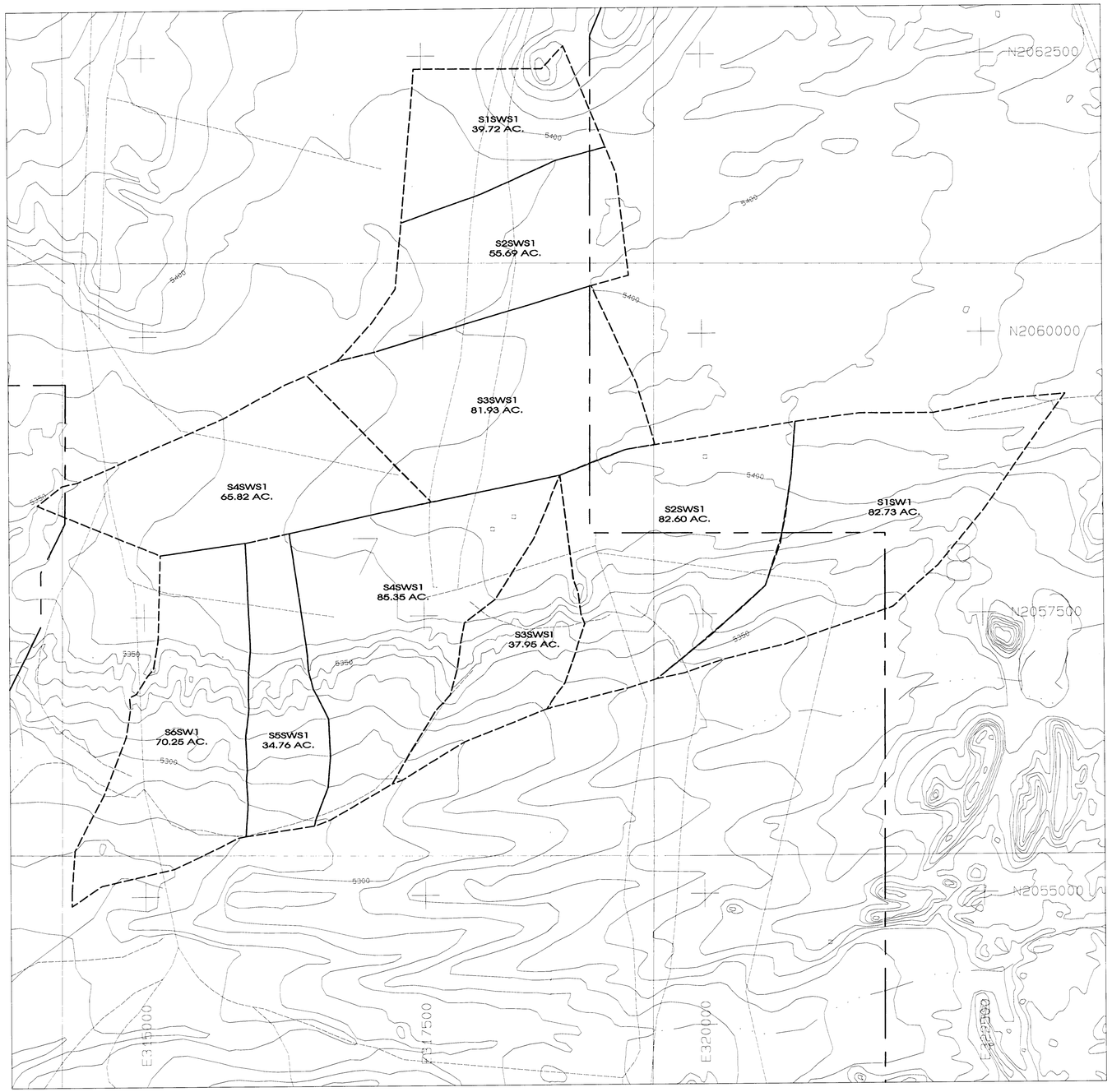
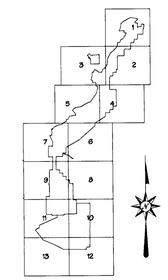


LEGEND

- DIRT ROAD
- WATERSHED
- BUILDING
- FENCE
- IRRIGATION LINE
- CULVERT
- DAM
- DRAINAGE
- RAILROAD
- TREES
- POWERLINE
- ×5338.5 SPOT ELEVATION
- 5300 INDEX CONTOUR
- 5299 INTERMEDIATE CONTOUR
- 218 5422.45 LEASE CORNER
- L-30 LEASE/PERMIT BOUNDARY



NOTES:
1. FOR RESULTS OF THE RULSE ANALYSIS REFER TO CHAPTER 12.3.10 OF THE MINE PERMIT.

CERTIFICATION STATEMENT

I, Leonard Raymond, hereby certify that this drawing was reviewed by me and that the information shown is accurate and complete to the best of my knowledge.

LEONARD RAYMOND NEW MEXICO 6600 REGISTERED PROFESSIONAL ENGINEER

5-8-02

REV. NO.	DATE	DRAFT BY	REVISION DESCRIPTION	ENG	E.G.	P.E.
A	5-07-02	PJF	SUBMITTED TO OSM FOR REVIEW AND APPROVAL	LR	MC	LR

APPROVALS

EXHIBIT 12-45A

BHP BILLITON NAVAJO COAL COMPANY

NAVAJO MINE

P.O. BOX 155 FRUITLAND, NEW MEXICO 87416

DOBY RAMPS 12, 13 AND 14 PREMINE TOPOGRAPHY AND DEPICTED AREAS FOR RUSLE 1.06 ANALYSIS

PREPARED BY LR	DRAWN BY PJF	SCALE 1" = 500'
APPROVED BY LR	DATE 4-08-02	

PATH: J:\DGN_SUBM\PER_PROGION_12\12-45\EXH12-45_45A-R13.DGN
PJFOSTER Wed May 08 09:13:19 2002

JUN 2002