

**VISIONS**

**DESCRIPTION**

Yr. Permit Renewal

-11 Haulroad Realign

Ine Plan Update

O-W Revision

Yr. Mine Plan Rev.

SM Response

Yr. Permit Renewal

Yr. Mineplan Rev.

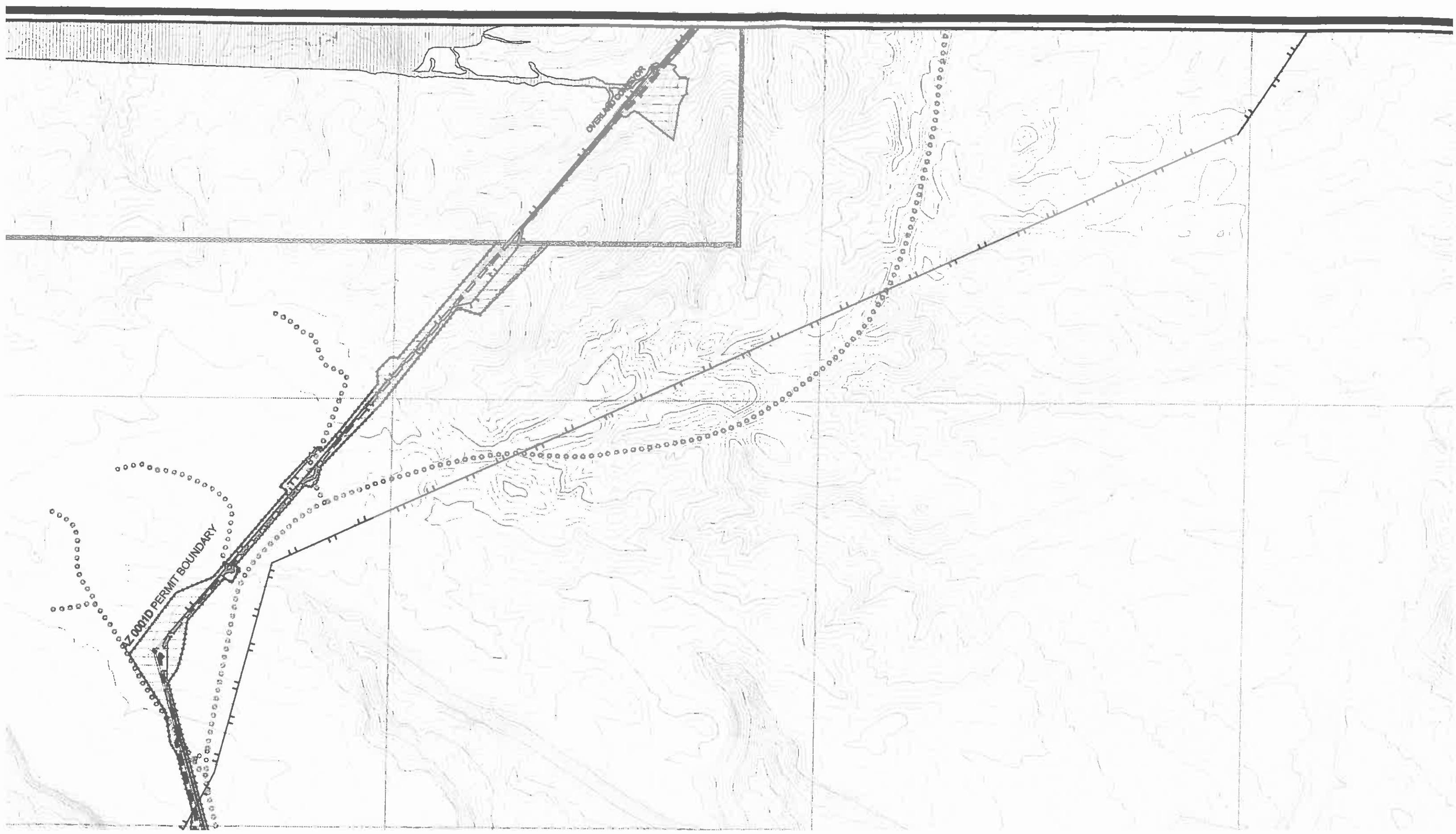
Yr. Mineplan Rev.

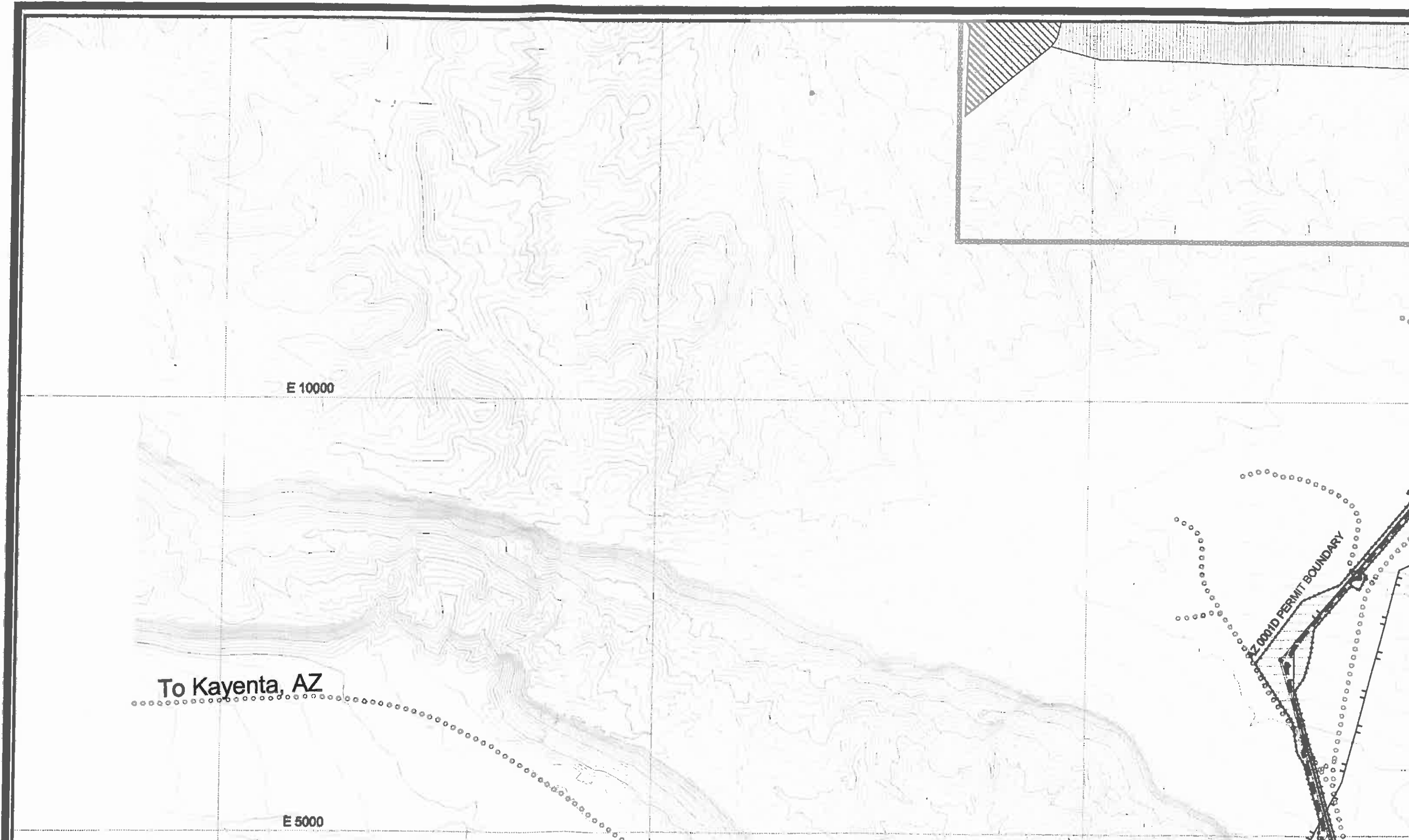


**Jurisdictional Permit and Affected Lands Map  
Drawing No. 85360  
(Silo Sheet)**

**Black Mesa Complex  
PO Box 650, Kayenta, Arizona 86033**

|   |                    |                          |                  |
|---|--------------------|--------------------------|------------------|
| <b>Produced For:</b>                        | Jim Schlienvogt    | <b>Map By:</b>           | J. Hamilton      |
| <b>Map Scale:</b>                           | 1 Inch = 1000 Feet | <b>Contour Interval:</b> | 20               |
| <b>Photo Date:</b>                          | 5/27/97            | <b>Photo Resolution:</b> | N/A              |
| e:\gis\bm_data_r89\projects\jpm_r89\rev.zpr |                    | <b>Plot Date:</b>        | January 21, 2004 |





E 1000

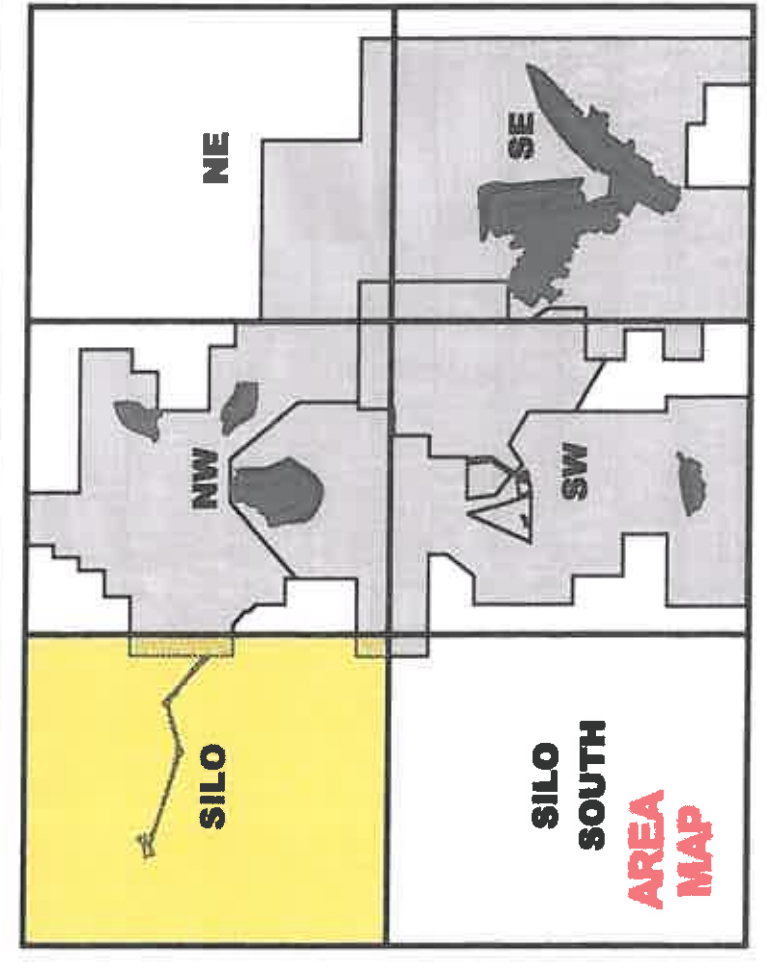
To Kayenta, AZ

E 5000

PERMIT BOUNDARY



| EQ Sites |                  |
|----------|------------------|
| ◆        | 01 EQ Major Site |
| +        | 01 EQ Minor Site |
| ✱        | 01 Recl EQ Site  |
| ⊠        | 1D EQ Minor Site |
| ×        | 1D EQ Major Site |
| ⊙        | 1D Recl EQ Site  |
| ●        | Buildings        |
| ○        | Coal Stockpiles  |



| REVISION |          |                           |
|----------|----------|---------------------------|
| CHK'D    | DATE     | DESCRIPTION               |
| JGS      | 3-1-95   | 5 Yr. Permit Renewal      |
| JGS      | 7-24-95  | N-11 Haulroad Reclamation |
| JGS      | 7-15-96  | Mine Plan Update          |
| JGS      | 8-12-96  | R-O-W Revision            |
| JGS      | 11-25-96 | 5 Yr. Mine Plan Renewal   |
| JGS      | 10-15-97 | OSM Response              |
| JGS      | 02-15-00 | 5 Yr. Permit Renewal      |
| JGS      | 12-7-01  | 5 Yr. Mineplan Renewal    |
| JGS      | 1-20-04  | 5 Yr. Mineplan Renewal    |
|          |          |                           |
|          |          |                           |



NAVAR ROUTE 48

W  
A

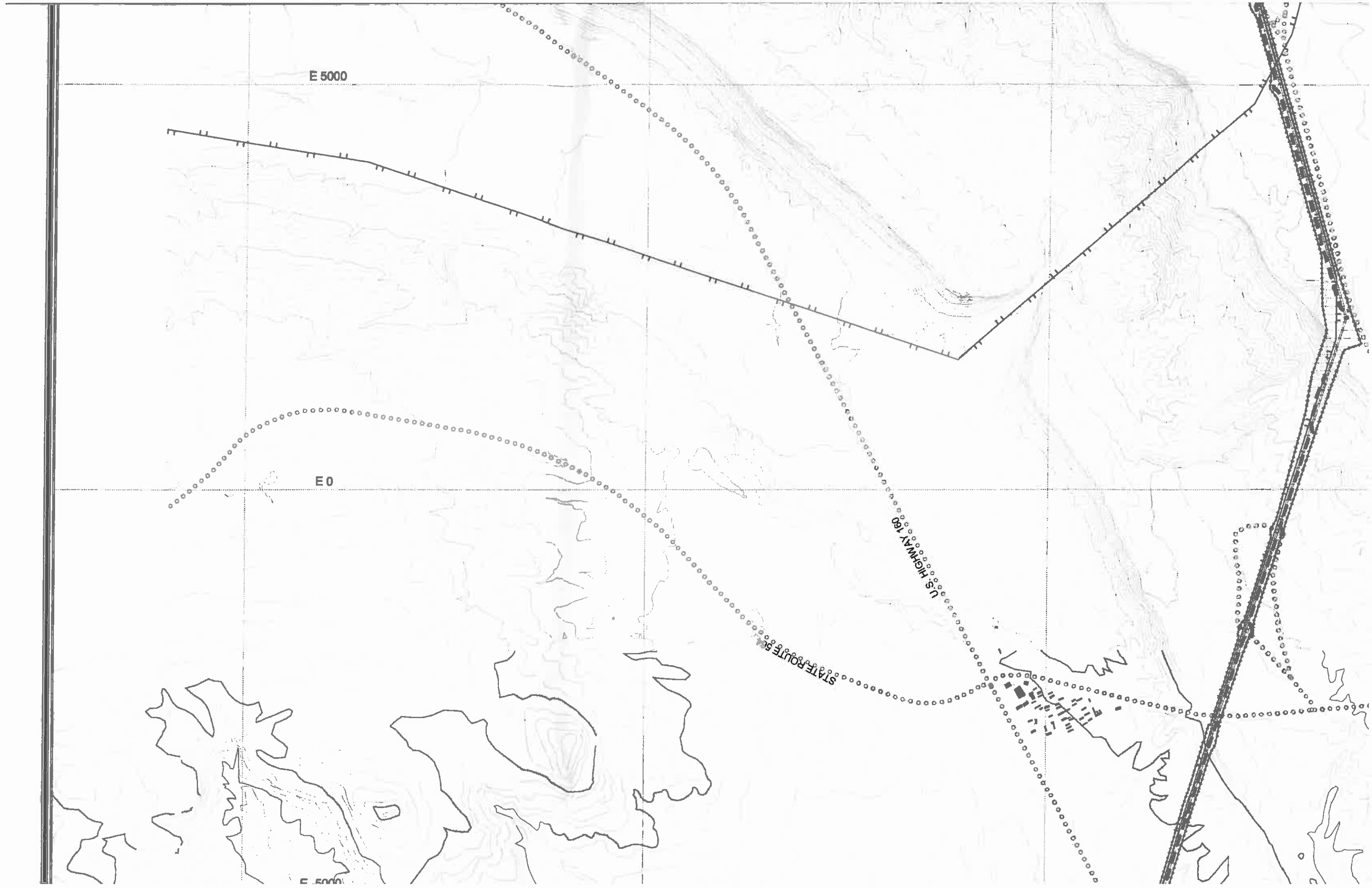
E 5000

E 0

U.S. HIGHWAY 160

STATE ROUTE 54

E 5000



before 12-16-77), Affected Lands

Program Only (12-16-77 to 2-1-82), Affected Lands

Program Permit AZ-0001 (2-1-82 to 7-6-90), Affected Lands - Kayenta Mine  
(2-1-82 to Present), Affected Lands - Black Mesa Mine

† Permit AZ-0002A (12-28-84 to 7-6-90), Affected Lands

† Permit AZ-0001D (7-6-90 to 7-5-2005), Affected Lands

† Permit AZ-0001D (2005-2011), Affected Lands

111

stripping Area; Line indicates Orientation of Pit Only.

see in which Disturbance other than Dragline  
in Removal may Occur.

see in which Draglines Overburden Removal is  
for the Purpose of Recovering Coal.

wing identifies those areas within the AZ-0001D permit  
here various reclamation standards apply. Additionally,  
indicates the orientation and direction of mining pits  
indicates of dragline stripping areas and associated  
for the current five-year permit term.

pit reference index can be found in Volume 11, Chapter  
In addition, identification of individual mining-  
may be found on the following drawings:

- 0 Mine Plan Map
- 500 Estimated PMT Map
- Drainage Area and Facilities Map
- Sediment and Water Control Structures Map
- Permanent Roads Map
- 0 Mine Facilities Map
- 500 Environmental Monitoring Maps
- Bonding Map

he extensive aerial extent of the Black Mesa Complex,  
well or narrow linear disturbance sites (e.g.,  
l monitoring sites, sedimentation ponds, topsoil  
ility lines, conveyors, roads, etc.) are assumed to  
disturbance created during the construction and/or  
of these sites. For purposes of this map only, the  
center or centerline of the disturbance area is shown.

# IFICATION

DEC 15 2003  
GT DATE

iger

100 2000

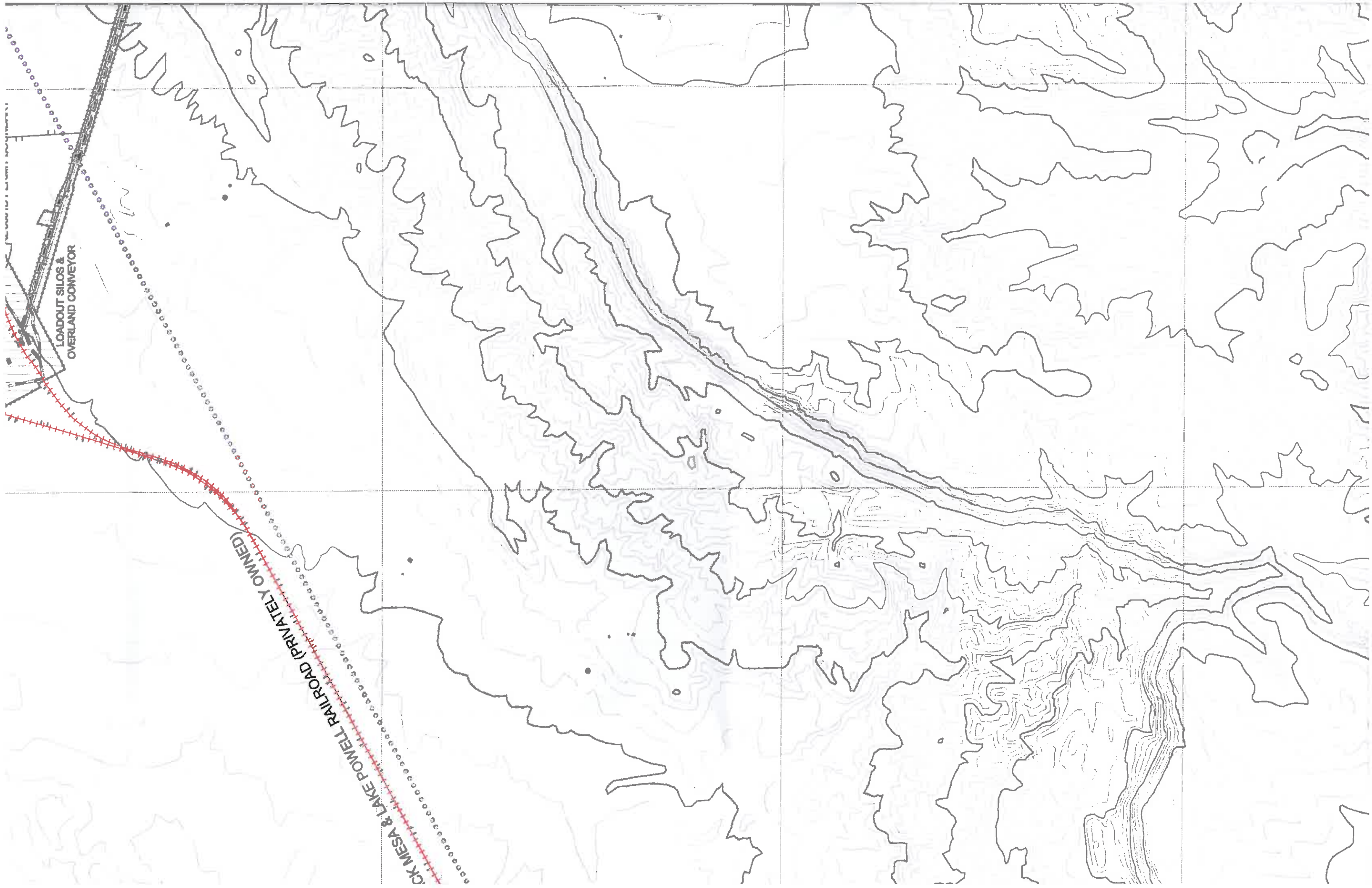


set

|  |                         |
|--|-------------------------|
|  | PWCC PRE-LAW RD         |
|  | PWCC 01 PRIMARY RD      |
|  | PWCC 01 ANCILLARY RD    |
|  | PWCC 01 RAMP            |
|  | PWCC 1D PRIMARY RD      |
|  | PWCC 1D ANCILLARY RD    |
|  | PWCC 1D RAMP            |
|  | NON-MINING RELATED ROAD |

|  |                         |
|--|-------------------------|
|  | PWCC Lease Line         |
|  | Permit Areas            |
|  | Existing 01 Permit Line |
|  | Existing 1D Permit Line |
|  | Power Lines             |
|  | PWCC                    |
|  | Non-PWCC                |

|  |                            |
|--|----------------------------|
|  | Navajo-Hopi Partition Line |
|  | Railroad                   |
|  | PWCC Conveyor              |
|  | PWCC Waterlines            |
|  | PWCC Sewage Facilities     |
|  | Highway (7-6-90)           |
|  | Major Drainage             |



LOADOUT SILOS &  
OVERLAND CONVEYOR

OK MESA & LAKE POWELL RAILROAD (PRIVATELY OWNED)



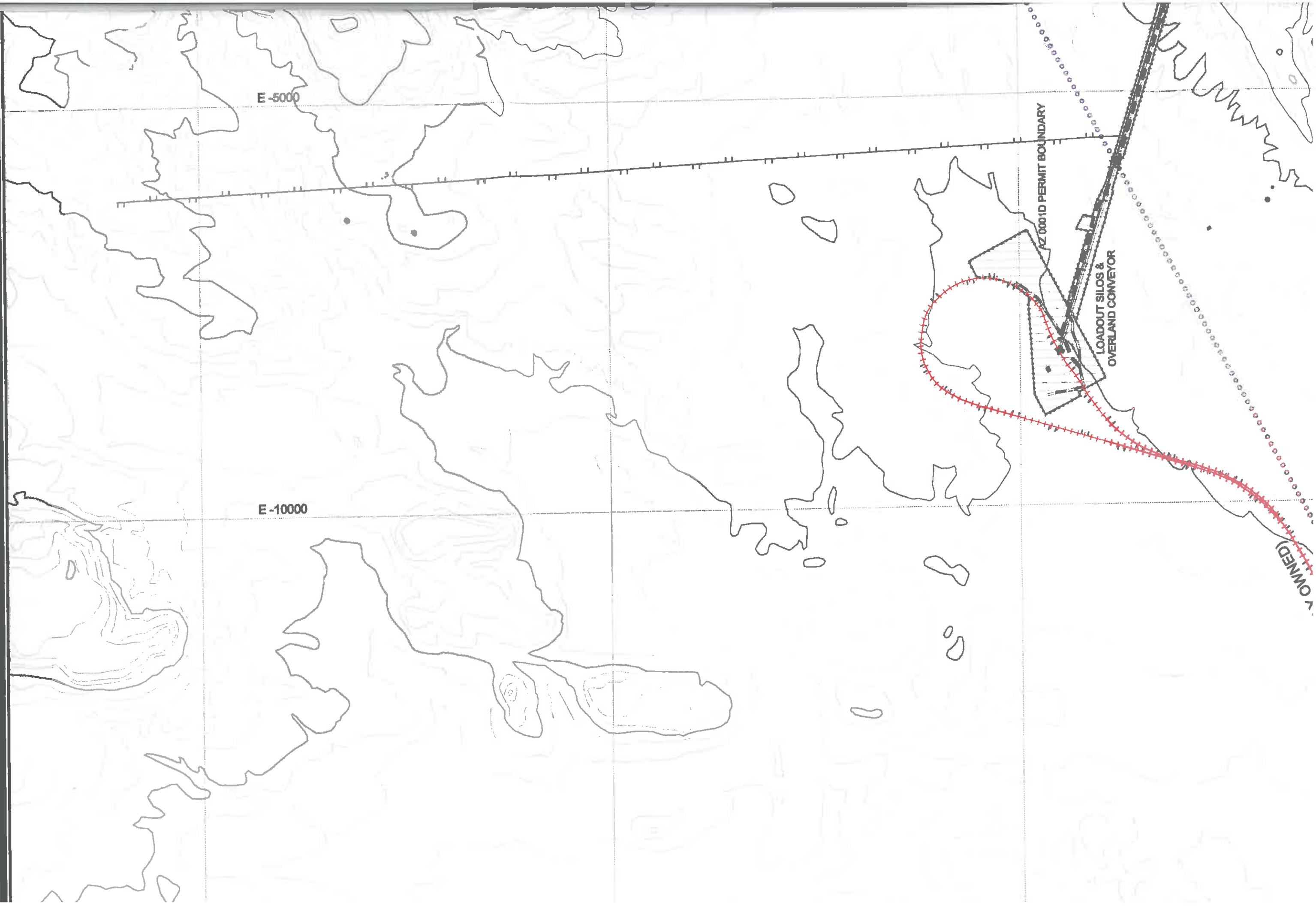
E-5000

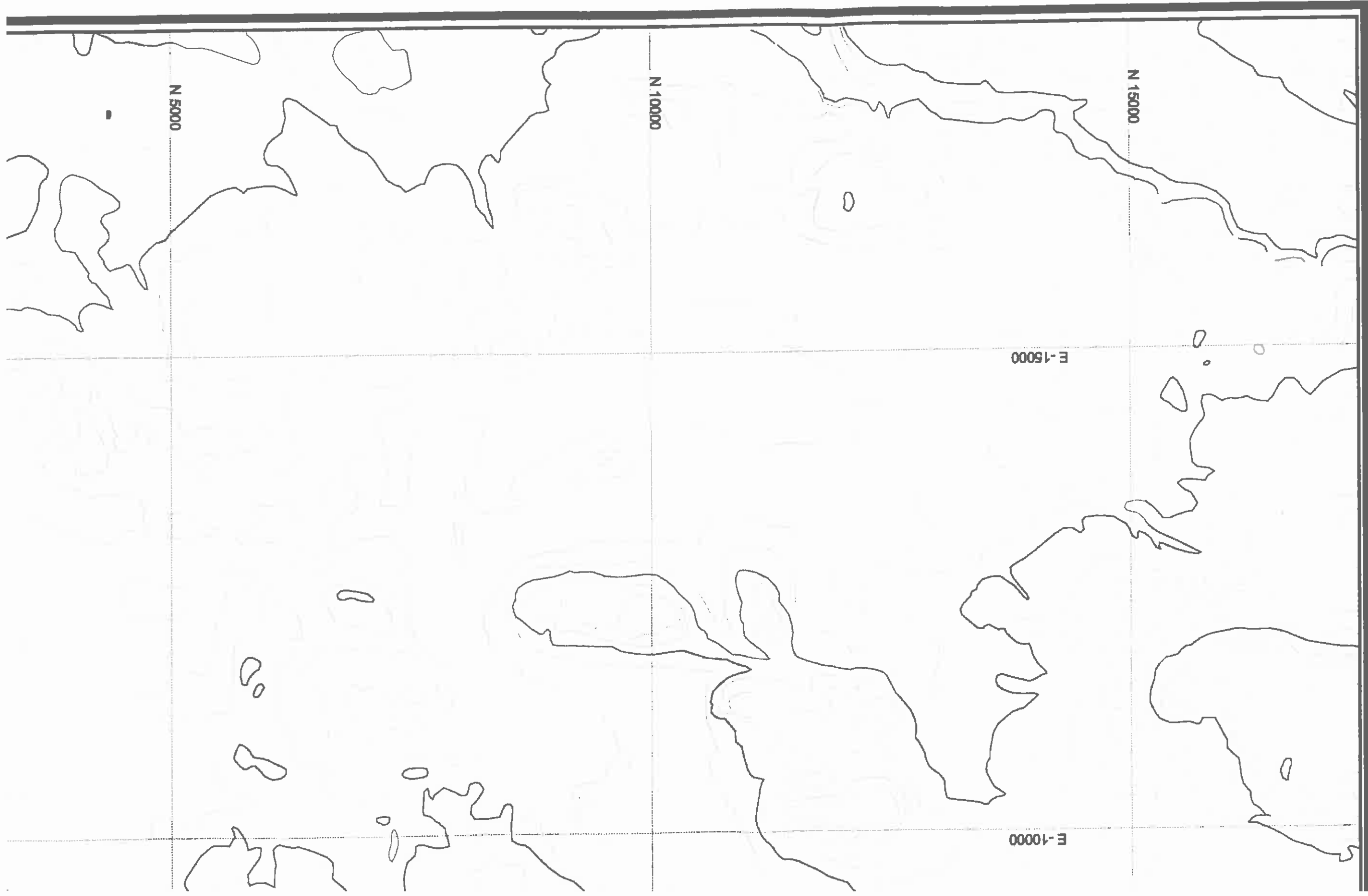
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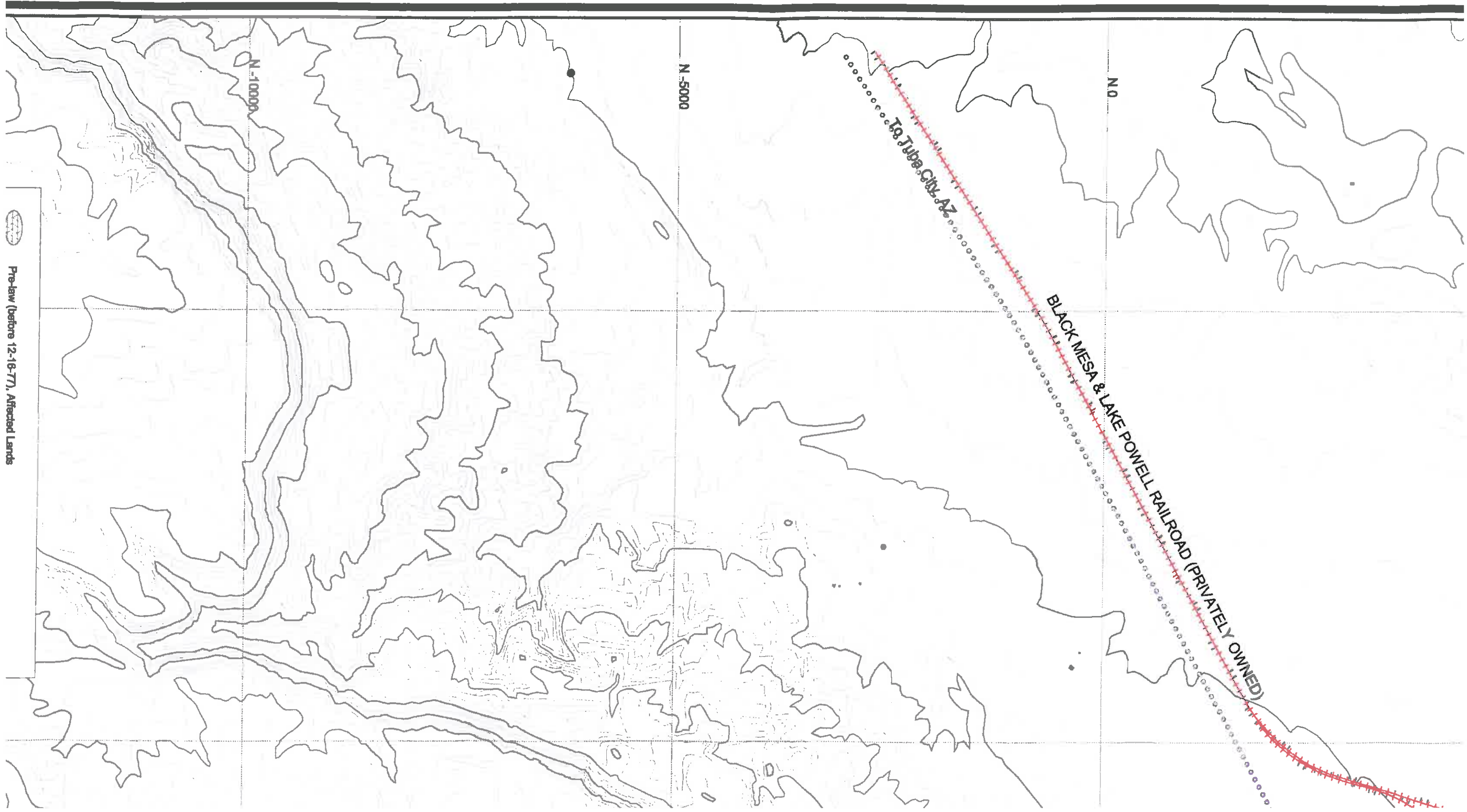
AZ 0001D PERMIT BOUNDARY

LOADOUT SILOS &  
OVERLAND CONVEYOR

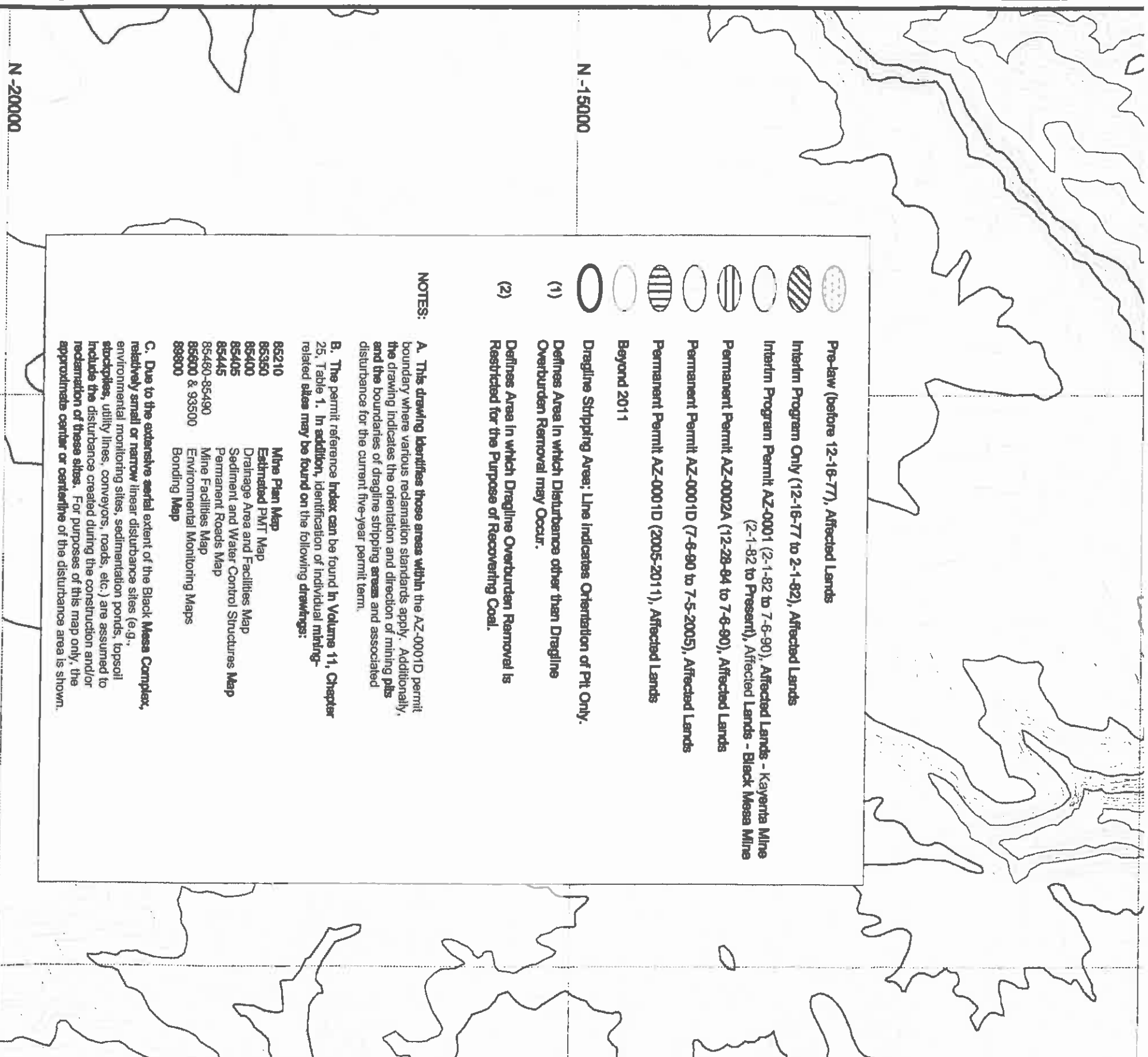
(OWNED)







Pre-law (before 12-16-77), Affected Lands



- Pre-law (before 12-16-77), Affected Lands
- Interim Program Only (12-16-77 to 2-1-82), Affected Lands
- Interim Program Permit AZ-0001 (2-1-82 to 7-6-90), Affected Lands - Kayenta Mine (2-1-82 to Present), Affected Lands - Black Mesa Mine
- Permanent Permit AZ-0002A (12-28-84 to 7-6-90), Affected Lands
- Permanent Permit AZ-0001D (7-6-90 to 7-5-2005), Affected Lands
- Permanent Permit AZ-0001D (2005-2011), Affected Lands
- Beyond 2011
- Dragline Stripping Area; Line indicates Orientation of Pit Only.
- Defines Area in which Disturbance other than Dragline Overburden Removal may Occur.
- Defines Area in which Dragline Overburden Removal is Restricted for the Purpose of Recovering Coal.

**NOTES:**

A. This drawing identifies those areas within the AZ-0001D permit boundary where various reclamation standards apply. Additionally, the drawing indicates the orientation and direction of mining pits and the boundaries of dragline stripping areas and associated disturbance for the current five-year permit term.

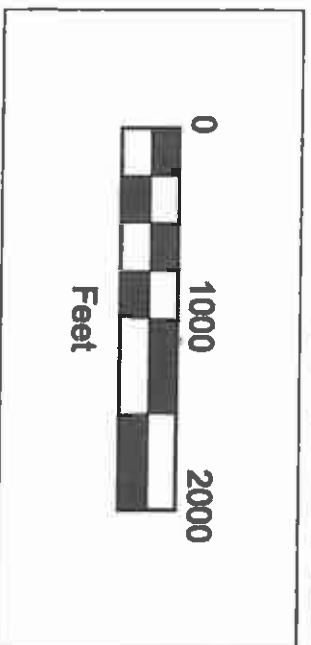
B. The permit reference index can be found in Volume 11, Chapter 25, Table 1. In addition, identification of individual mining-related sites may be found on the following drawings:

- 85210 Mine Plan Map
- 85350 Estimated PMT Map
- 85400 Drainage Area and Facilities Map
- 85405 Sediment and Water Control Structures Map
- 85445 Permanent Roads Map
- 85480-85490 Mine Facilities Map
- 85600 & 93500 Environmental Monitoring Maps
- 89800 Bonding Map

C. Due to the extensive aerial extent of the Black Mesa Complex, relatively small or narrow linear disturbance sites (e.g., environmental monitoring sites, sedimentation ponds, topsoil stockpiles, utility lines, conveyors, roads, etc.) are assumed to include the disturbance created during the construction and/or reclamation of these sites. For purposes of this map only, the approximate center or centerline of the disturbance area is shown.

# ENGINEER'S CERTIFICATION

**JAMES G. SCHLENVOGT** DATE **DEC 15 2003**  
 Engineering & Reclamation Manager  
 Peabody Western Coal Company



- Roads
- PWCC PRE-LAW RD
- PWCC 01 PRIMARY RD
- PWCC 01 ANCILLARY RD
- PWCC 01 RAMP
- PWCC 1D PRIMARY RD
- PWCC 1D ANCILLARY RD
- PWCC 1D RAMP
- NON-MINING RELATED ROAD