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MX SITING INVESTIGATION. SUMMARY OF SUITABLE AREA, NEVADA-UTAH.--ETC(U)

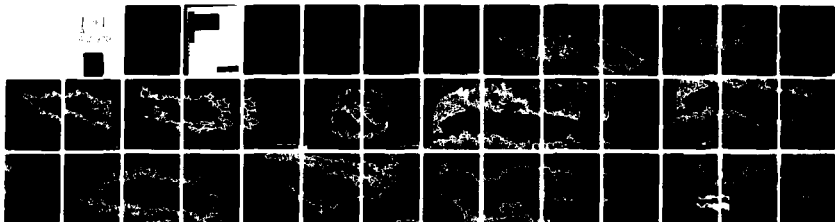
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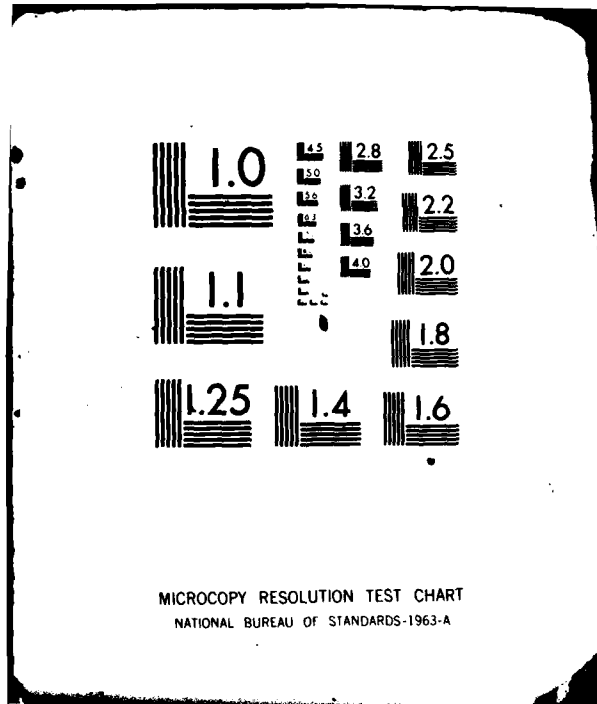
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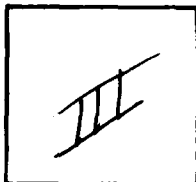


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DTIC ACCESSION NUMBER



LEVEL



INVENTORY

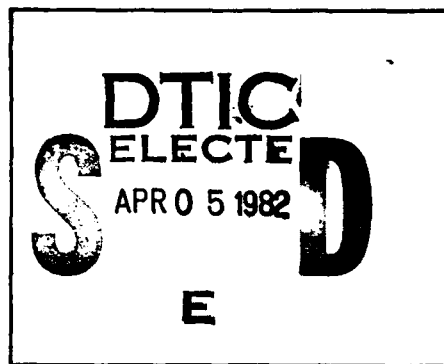
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FN-TR-39-II

MX SITING INVESTIGATION
SUMMARY OF SUITABLE AREA
NEVADA-UTAH
VERIFICATION STUDIES, FY 79 AND FY 80
VOLUME II

Prepared for:

U.S. Department of the Air Force
Ballistic Missile Office (BMO)
Norton Air Force Base, California 92409

Prepared by:

Fugro National, Inc.
3777 Long Beach Boulevard
Long Beach, California 90807

14 July 1980

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Suitable areas: Cave Junction, Antelope, Delamar, Pahre, Dry Lake, Gardent Coal white Lick Bedrock, ground water, water level, terrain, geology, mining		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The valleys covered in this report constitute the area of verification studies during FY79 + 1/2 of FY80. They verified suitability of area for MY system. Included are composite suitable area maps for Cave, Antelope, Delamar, Pahre, Dry Lake, Garden, Coal, and White River valleys in Nevada and Utah.		

FOREWORD

This report was prepared for the Department of the Air Force, Ballistic Missile Organization (BMO), in compliance with Contract No. F04704-80-C-0006, CDRL Item 004A2. It summarizes the results of an evaluation of the suitability of portions of Nevada and Utah for siting the MX Land Mobile Advanced ICBM system.

The valleys covered in this report constitute the area of Verification studies during fourth quarter FY 79 and first half FY 80. The objective of the Verification studies is to verify the suitability of sufficient area for deployment of the MX system. The Verification studies are the final phase of a site-selection process which was begun in 1977. Previous phases have been termed Screening, Characterization, and Ranking. In preparing this report, it has been assumed that the reader is familiar with these previous studies.

An important result of the Verification studies is the delineation of suitable area in the subject valleys. It is the purpose of this report to present the derivative maps of suitable area. The basic data, and intermediate-step interpretive maps on which the suitable area maps are based, will be the subjects of subsequent reports, along with preliminary assessments of physical and engineering characteristics of the valley soils.

This report consists of two volumes:

Volume I - Contains sections 1.0, 2.0, and 3.0; Introduction, Methodology, and Results. Volume I also contains composite suitable area maps for all or portions of six valleys: Dugway, Whirlwind, Tule, Snake, Hamlin, and Spring valleys. This volume was issued on 2 July 1980.

Volume II - Contains composite suitable area maps for all or portions of eight valleys: Cave, Muleshoe, Delamar, Pahroc, Dry Lake, Garden, Coal, and White River valleys. This volume is presented herein.

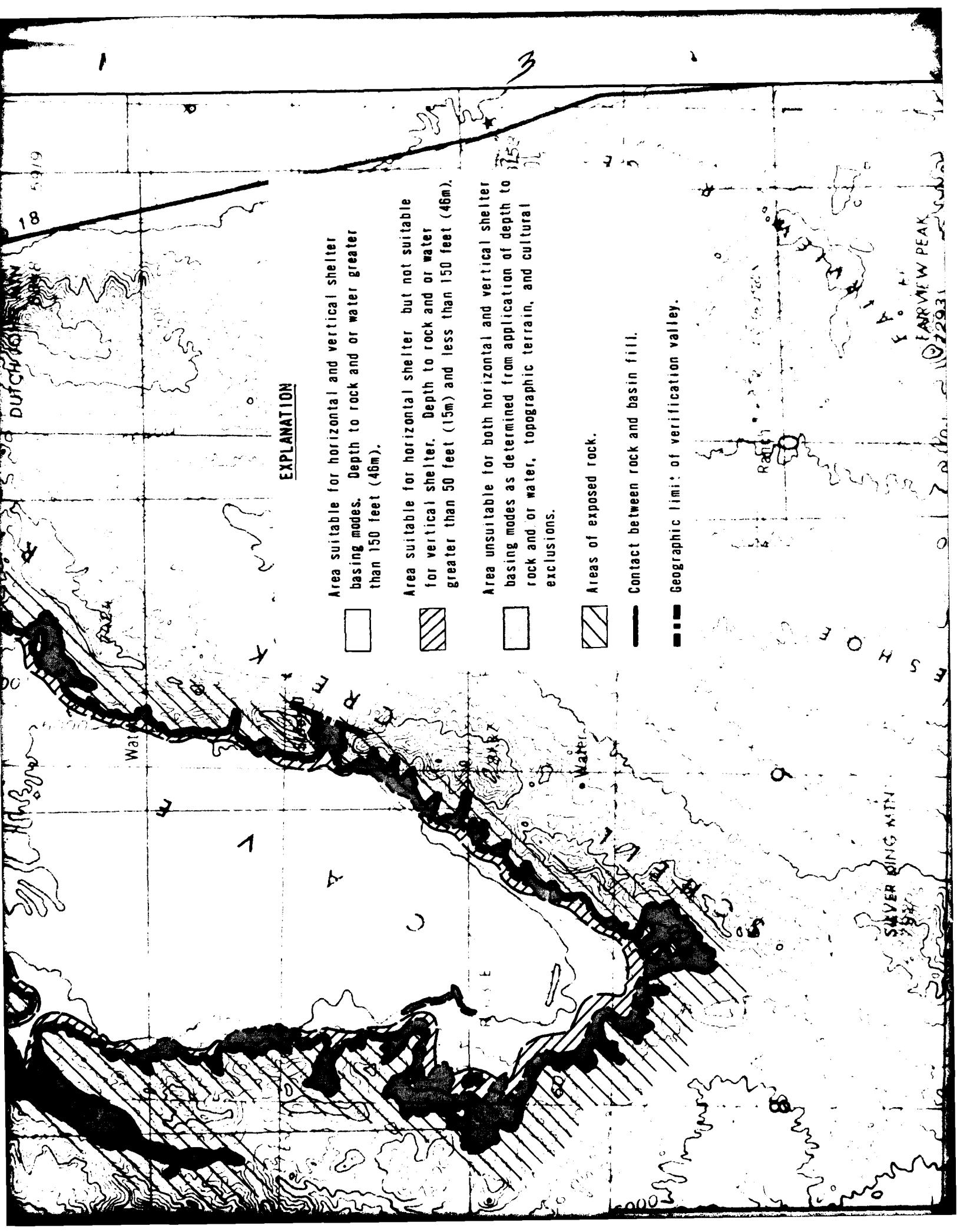
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3-13	Suitable Area, White River Valley, Nevada





EXPLANATION

- 
 Area suitable for horizontal and vertical shelter basing modes. Depth to rock and or water greater than 150 feet (46m).
- 
 Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and or water greater than 50 feet (15m) and less than 150 feet (46m).
- 
 Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and or water, topographic terrain, and cultural exclusions.
- 
 Areas of exposed rock.
- 
 Contact between rock and basin fill.
- 
 Geographic limit of verification valley.

18 5919

DUTCHMAN

Water

Water

SILVER KING MOUNTAIN

FAIRVIEW PEAK

192931

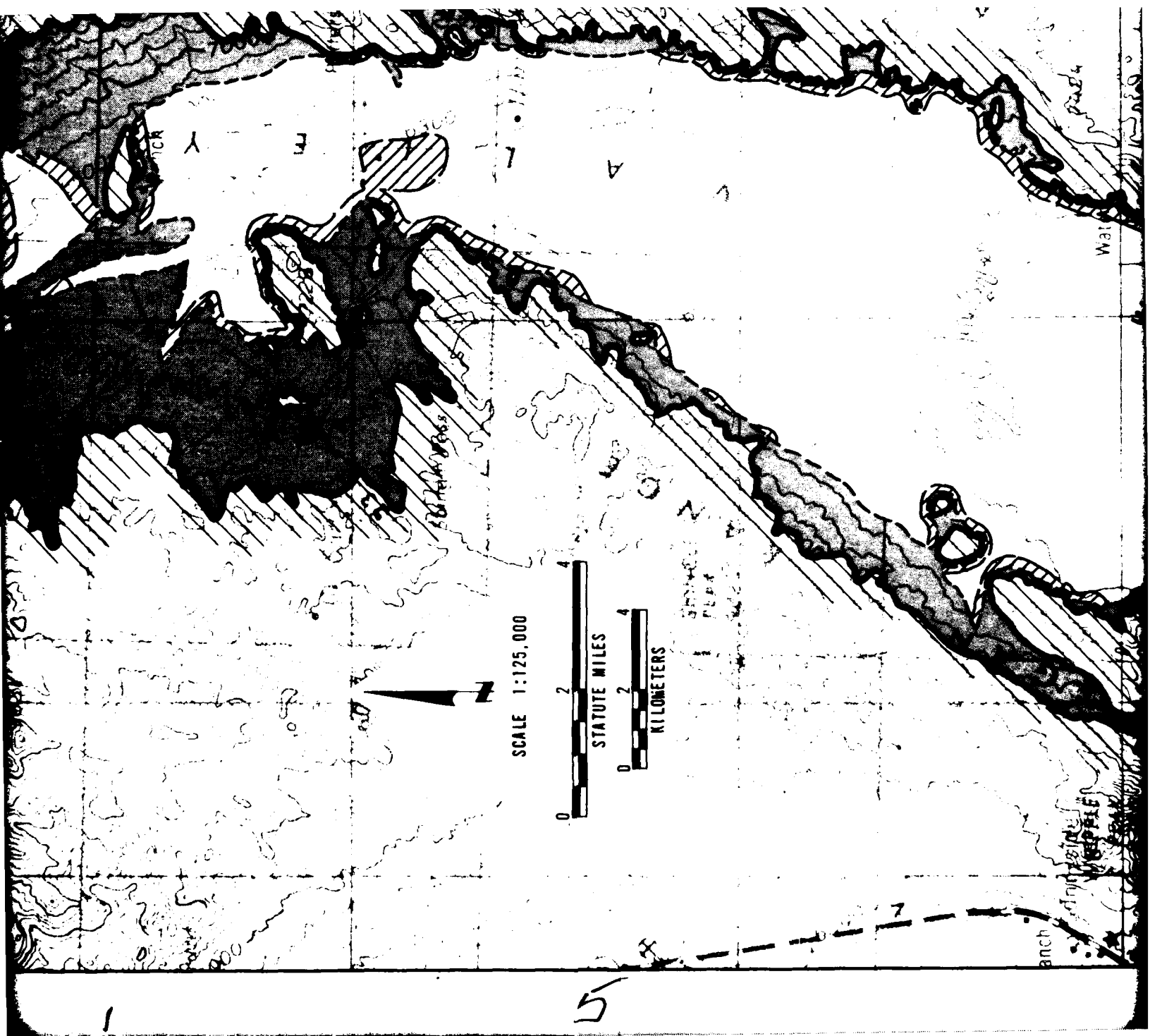
RATON

S H O W S



14 JUL 69

4



SCALE 1:125,000

STATUTE MILES

KILOWMETERS

1

5

EXPLANATION

Area suitable for horizontal and vertical shelter basing modes. Depth to rock and or water greater than 150 feet (46m).



Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and or water greater than 50 feet (15m) and less than 150 feet (46m).



Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and or water, topographic terrain, and cultural exclusions.



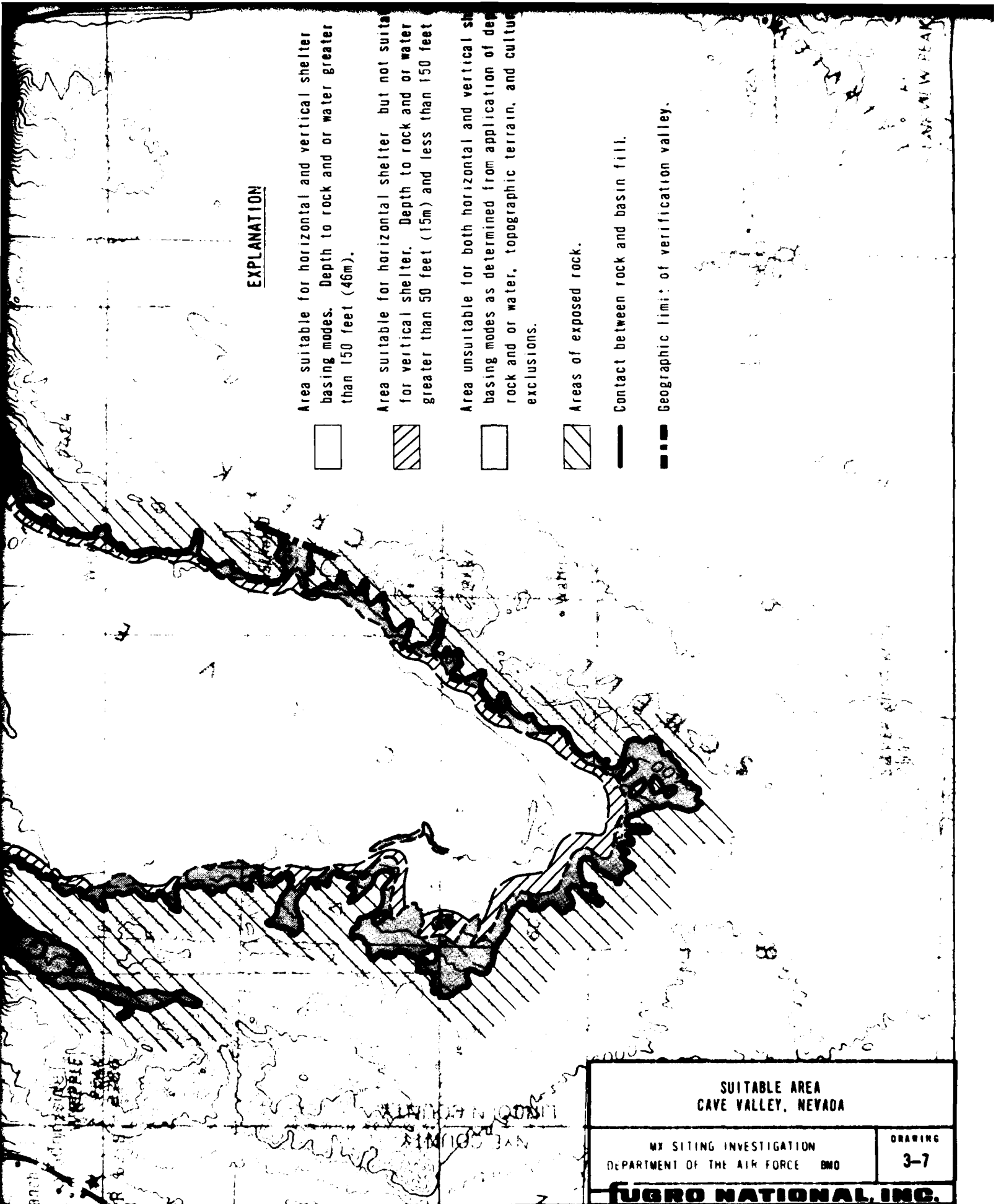
Areas of exposed rock.



Contact between rock and basin fill.



Geographic limit of verification valley.

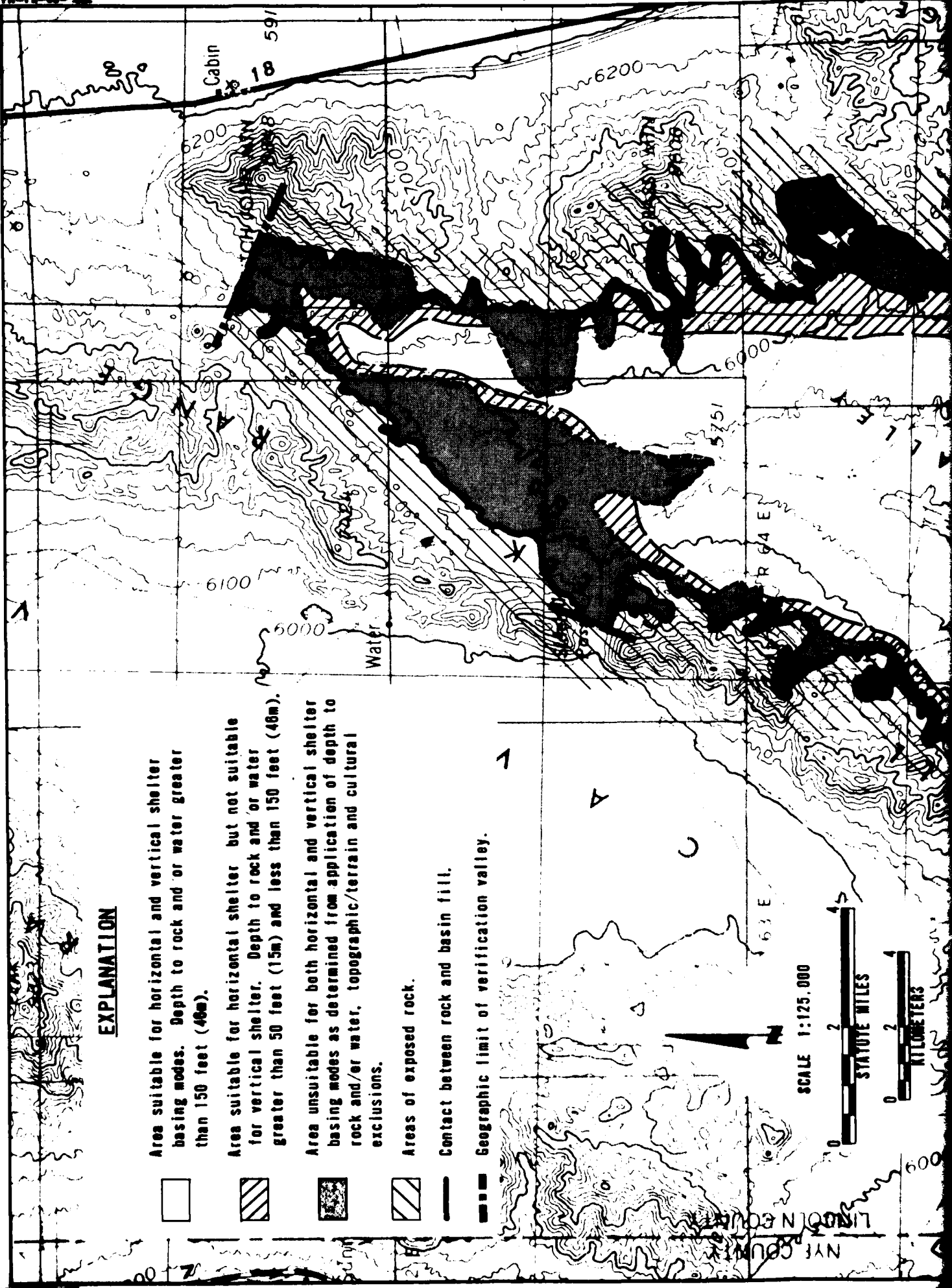


**SUITABLE AREA
CAVE VALLEY, NEVADA**







MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE BMD

DRAWING
3-7

FUGRO NATIONAL, INC.



EXPLANATION

-  Area suitable for horizontal and vertical shelter basing modes. Depth to rock and/or water greater than 150 feet (46m).
-  Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and/or water greater than 50 feet (15m) and less than 150 feet (46m).
-  Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and/or water, topographic/terrain and cultural exclusions.
-  Areas of exposed rock.
-  Contact between rock and basin fill.
-  Geographic limit of verification valley.

SCALE 1:125,000



NYE COUNTY
 LINCOLN COUNTY



14-41-14

BURN

Corral
Corral

44

Corral

487

ALLEY

Water

Pahroc Summit
Pass

4966

P 63

SCALE 1:125,000

STATUTE MILES

KILOMETERS

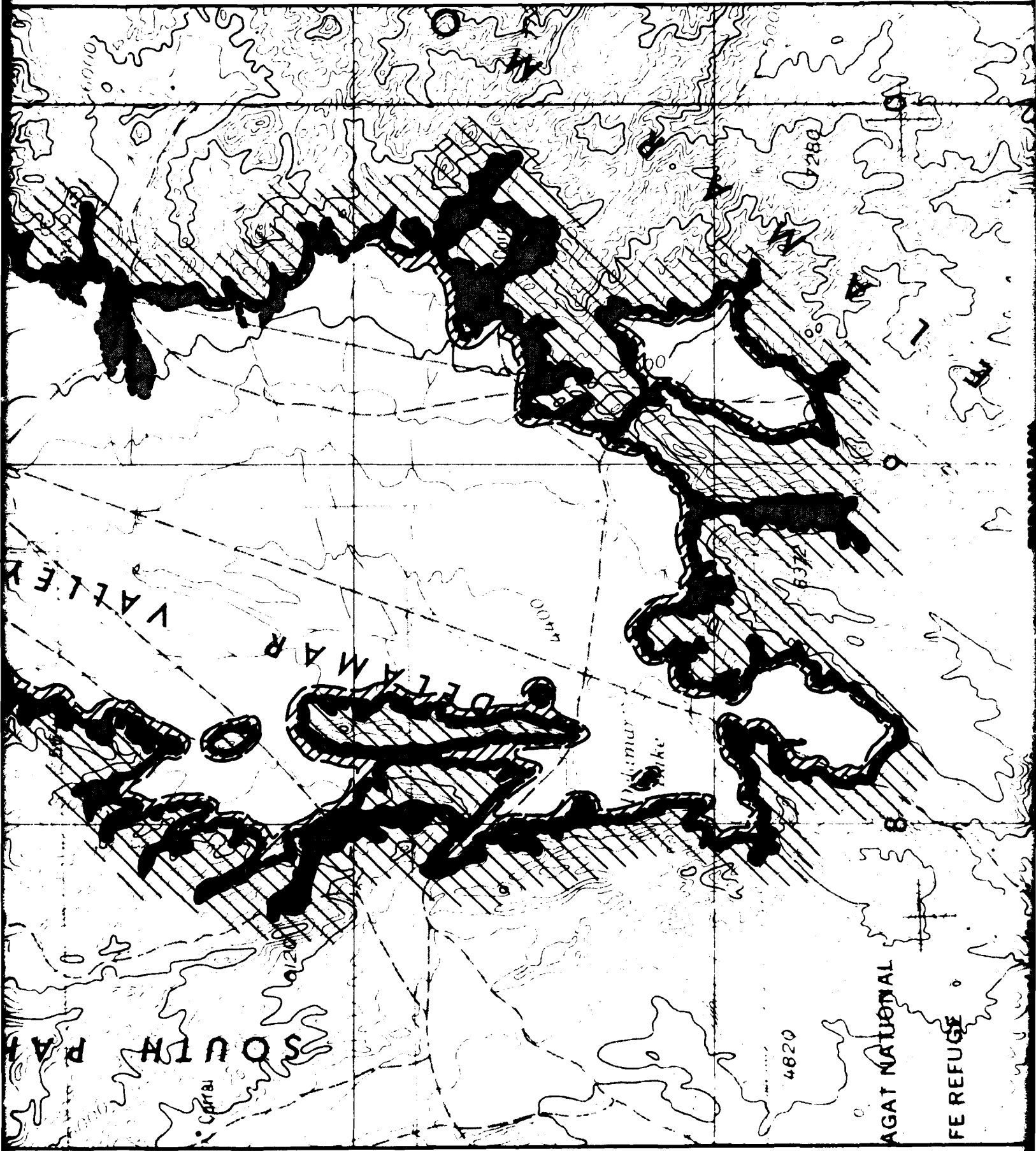
PAHROC

LEY

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3



AGAT NATIONAL

FE REFUGE

SOUTH PATTER

MYANMAR

Capital

Myanmar
Lake

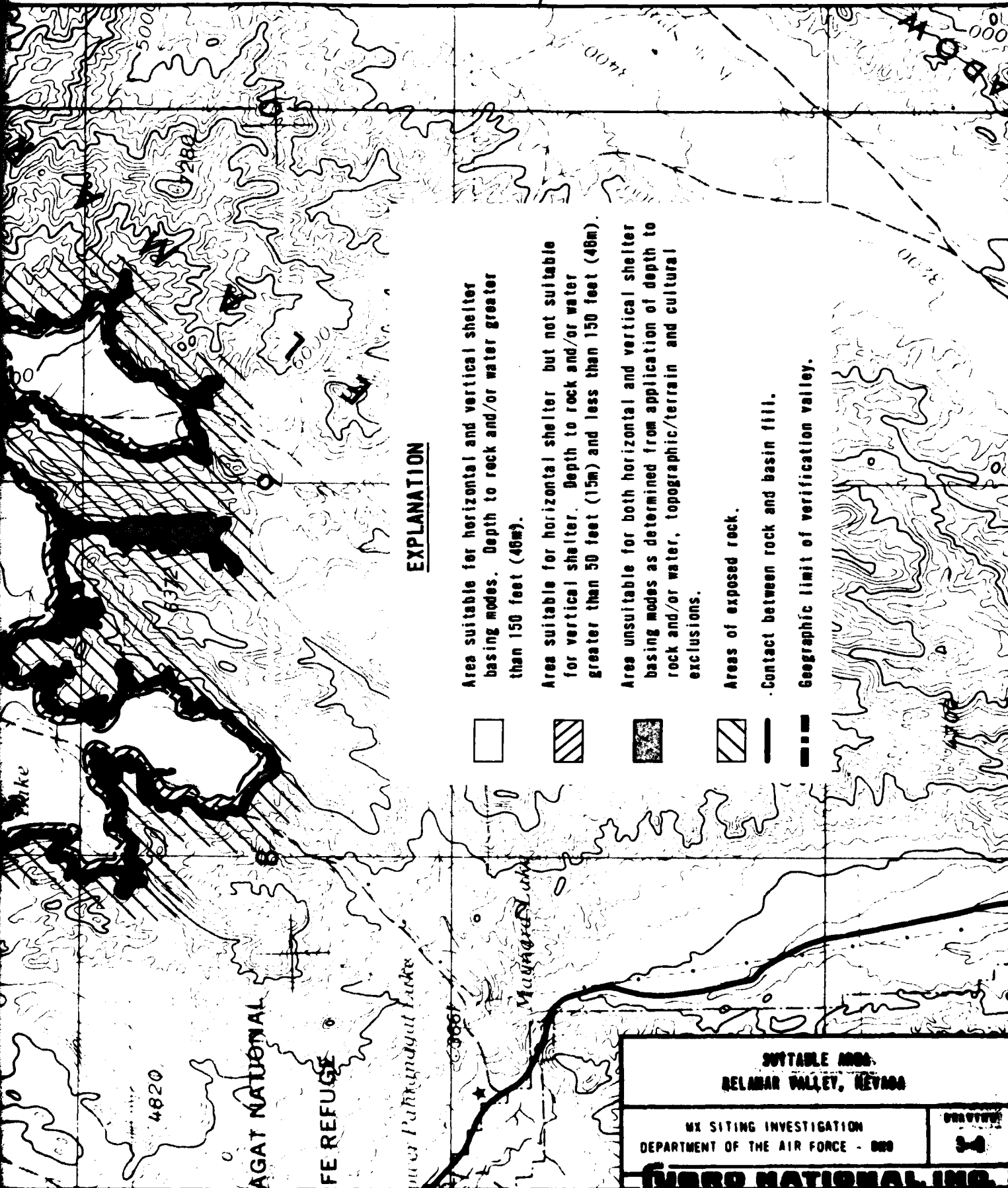
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EXPLANATION

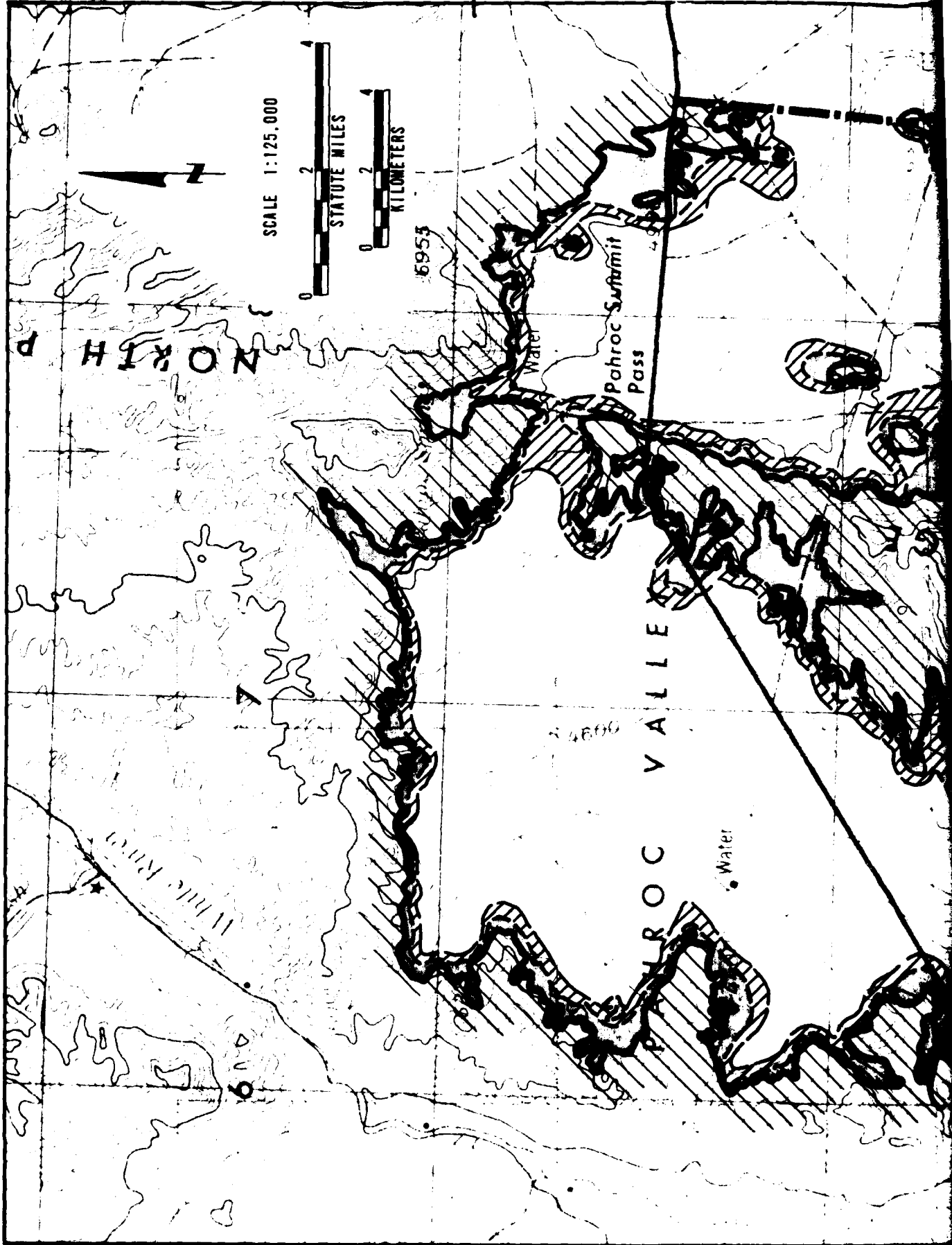
- 
 Area suitable for horizontal and vertical shelter basing modes. Depth to rock and/or water greater than 150 feet (46m).
- 
 Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and/or water greater than 50 feet (15m) and less than 150 feet (46m).
- 
 Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and/or water, topographic/terrain and cultural exclusions.
- 
 Areas of exposed rock.
- 
 Contact between rock and basin fill.
- 
 Geographic limit of verification valley.

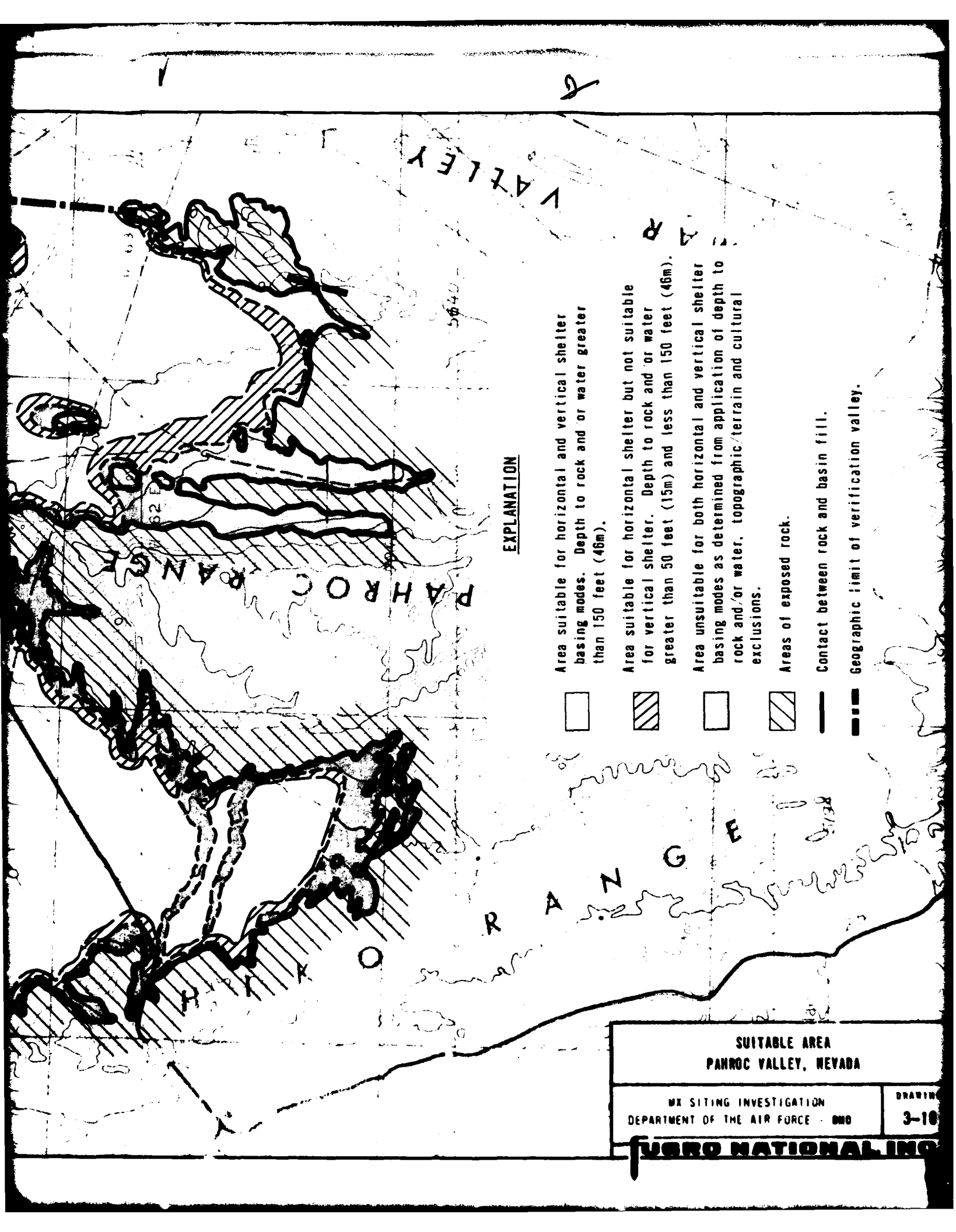
**SUITABLE AREA
BELMAR VALLEY, NEVADA**

**MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - 000**







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34**

THIRD NATIONAL INC.





EXPLANATION

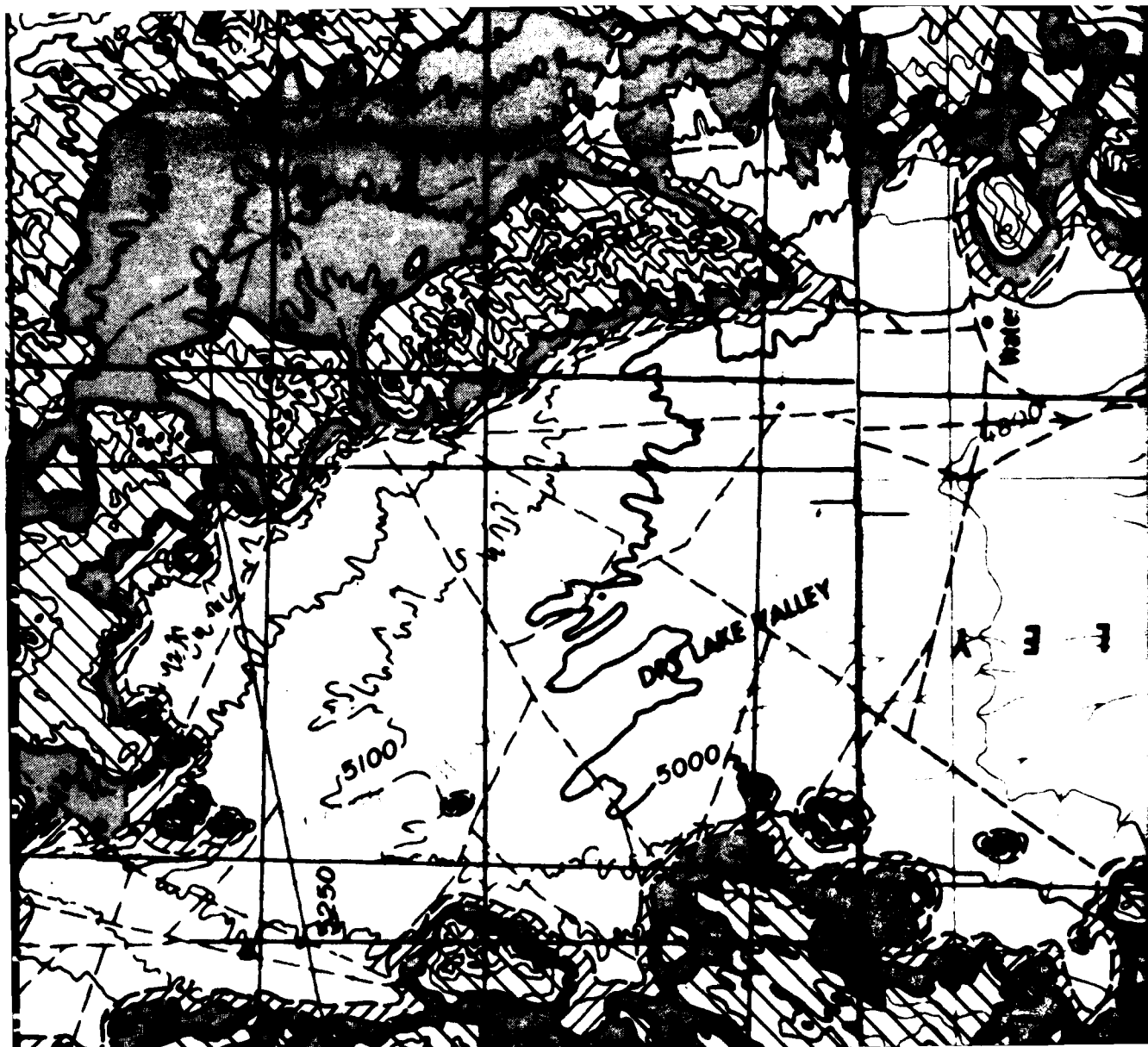
- 
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- 
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- 
 Areas of exposed rock.
- 
 Contact between rock and basin fill.
- 
 Geographic limit of verification valley.

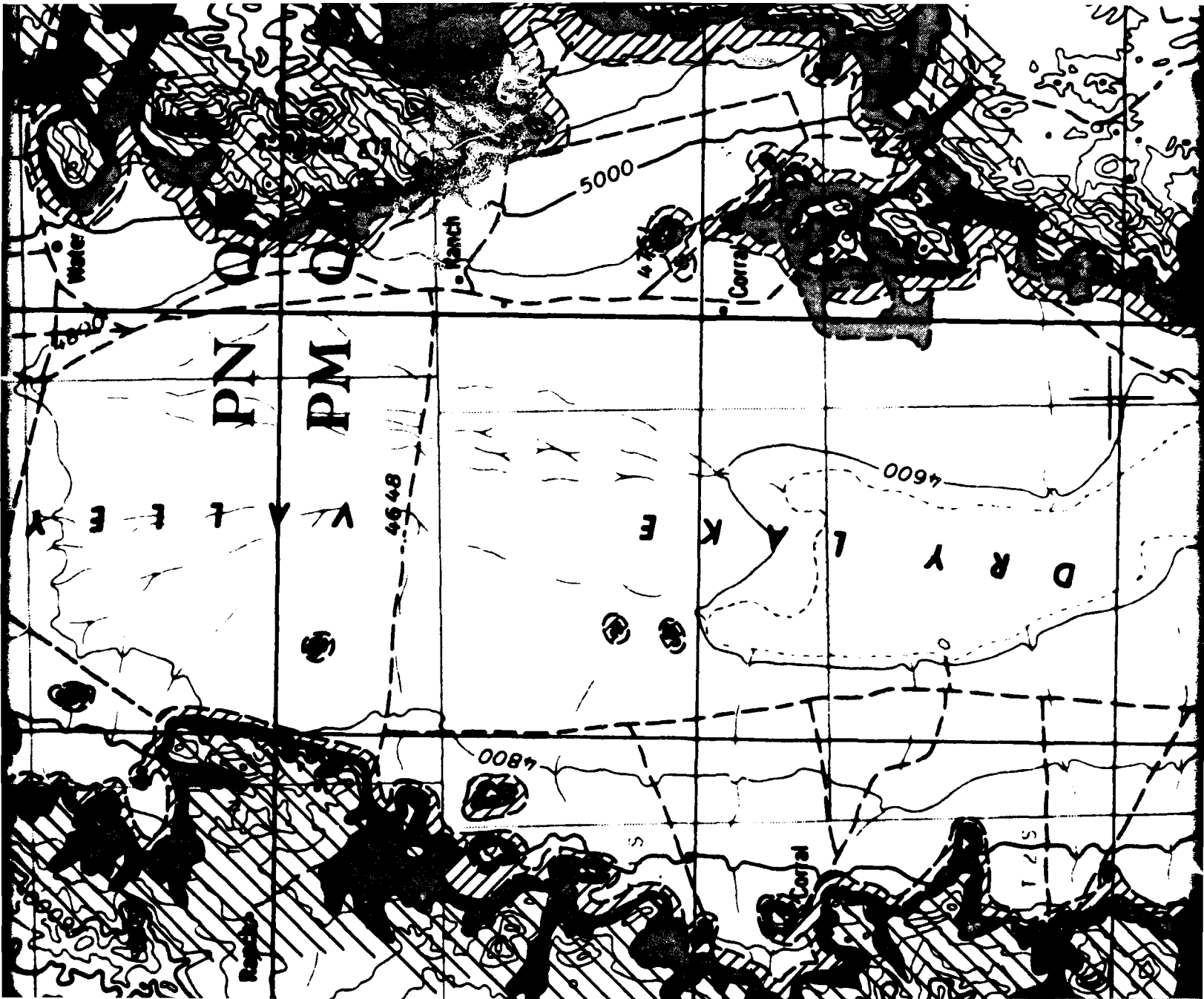
SUITABLE AREA
PAHROC VALLEY, NEVADA

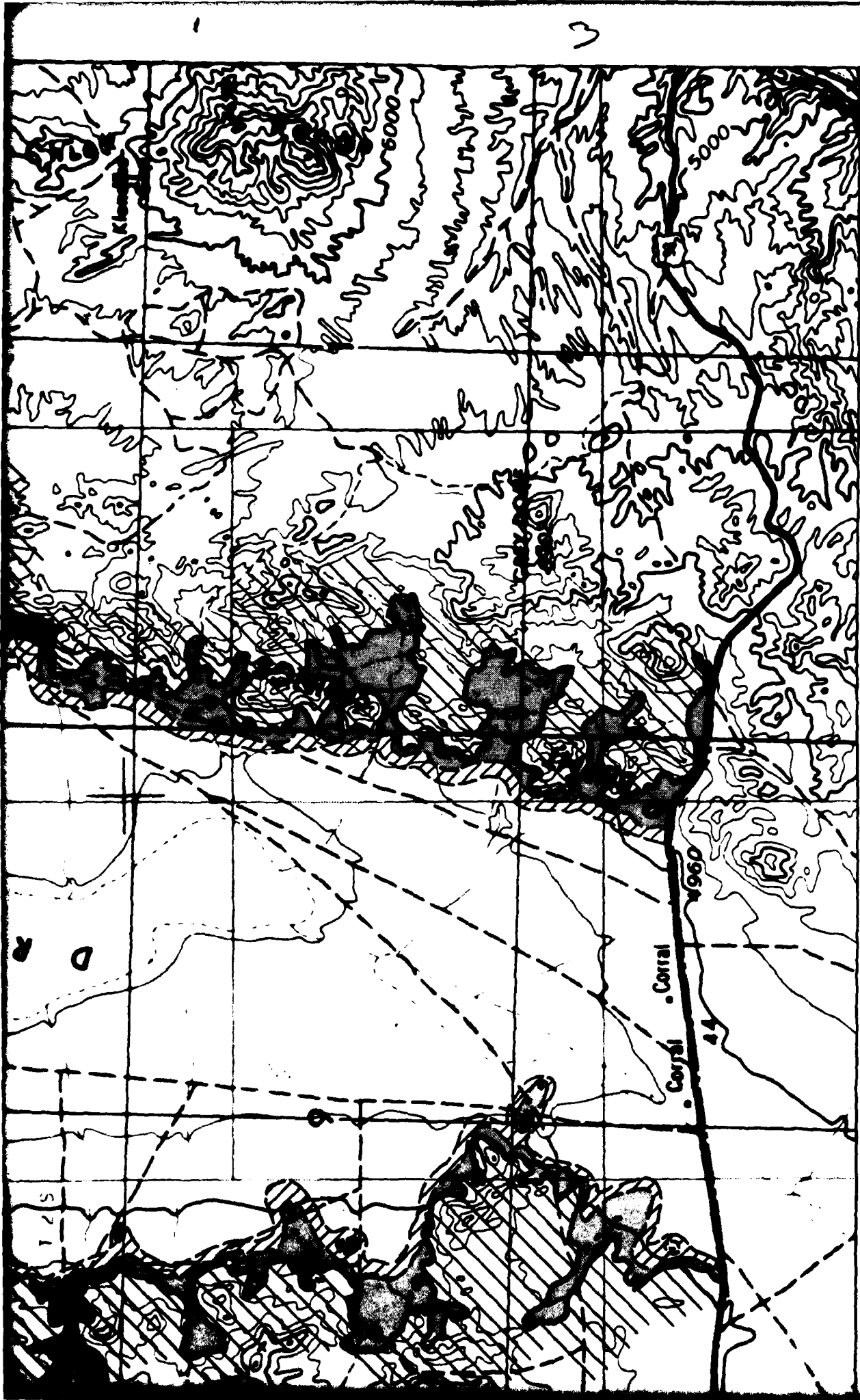
MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - DMO

DRAWING
3-18

FUGRO NATIONAL INC.













EXPLANATION

Area suitable for horizontal and vertical shelter



EXPLANATION

- 
 Area suitable for horizontal and vertical shelter basing modes. Depth to rock and water greater than 150 feet (46m).
- 
 Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and/or water greater than 50 feet (15m) and less than 150 feet (46m).
- 
 Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and/or water, topographic/terrain and cultural exclusions.
- 
 Areas of exposed rock.
- 
 Contact between rock and basin fill.
- 
 Geographic limit of verification valley.



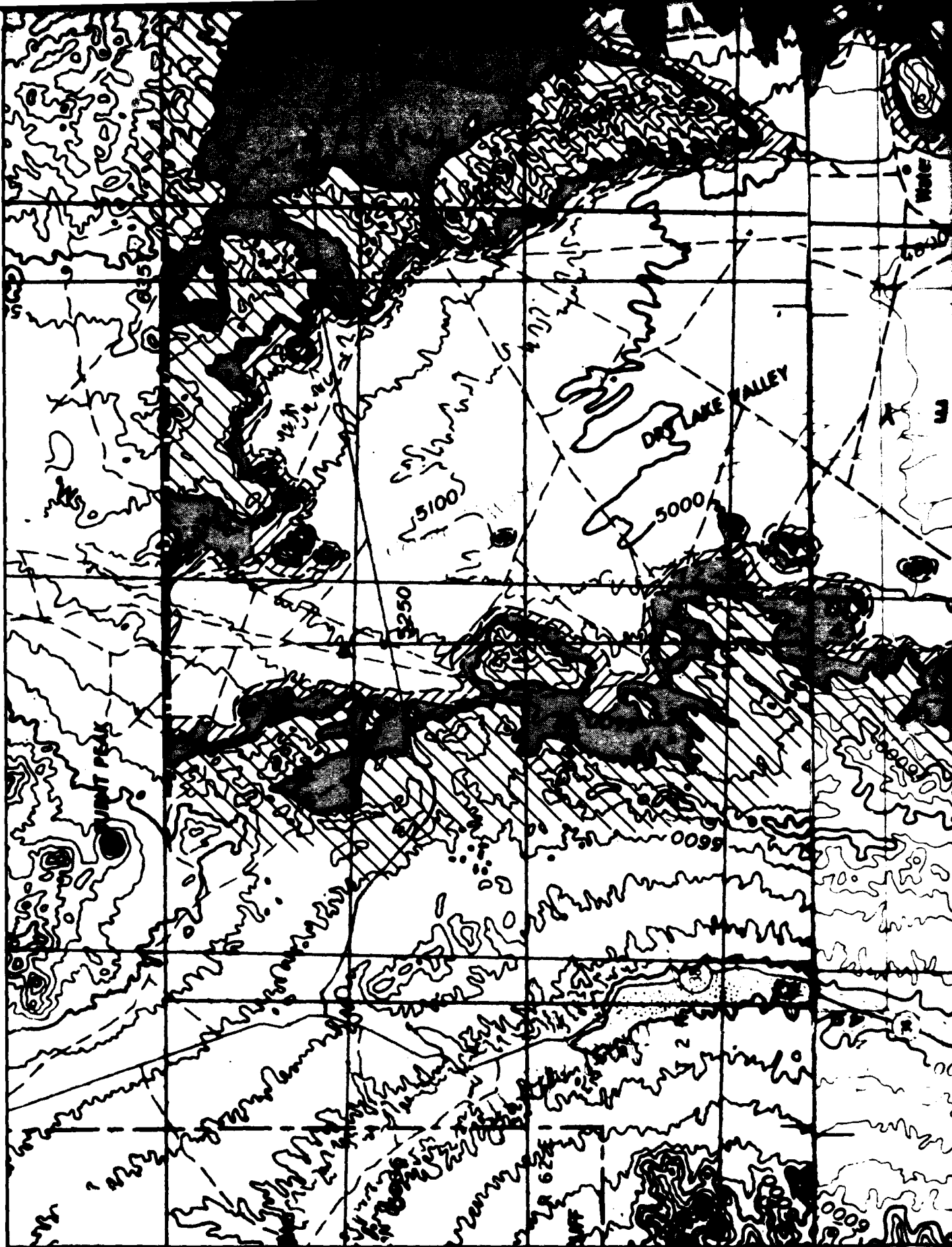
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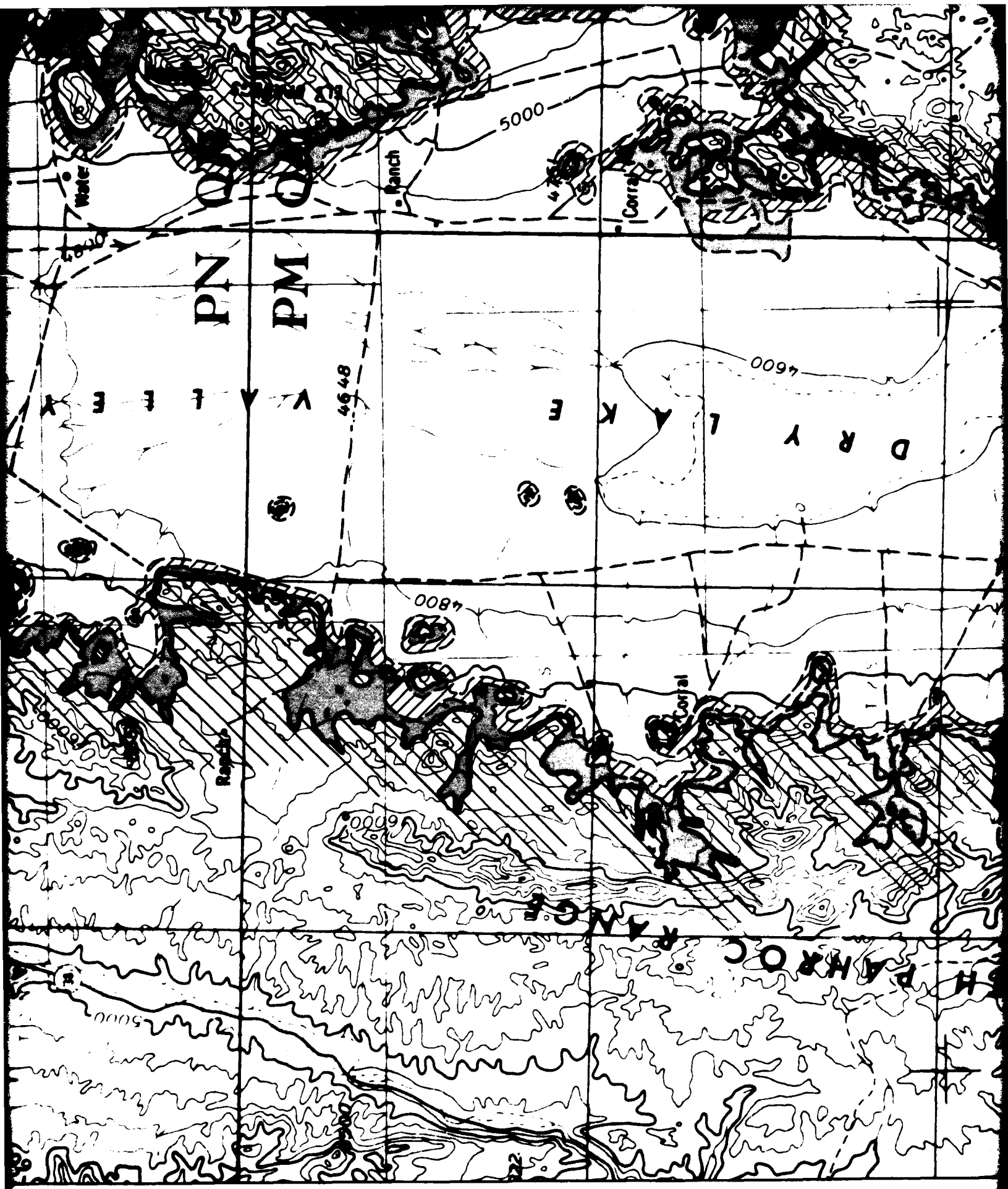


STATUTE MILES



KILOMETERS













EXPLANATION

- Area suitable for horizontal and vertical shelter basing modes. Depth to rock and water greater than 150 feet (46m).
- ▨ Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and/or water.





EXPLANATION

- 
 Area suitable for horizontal and vertical shelter basing modes. Depth to rock and water greater than 150 feet (46m).
- 
 Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and/or water greater than 50 feet (15m) and less than 150 feet (46m).
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 Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and/or water, topographic terrain and cultural exclusions.
- 
 Areas of exposed rock.
- 
 Contact between rock and basin fill.
- 
 Geographic limit of verification valley.

SUITABLE AREA DRY LAKE VALLEY, NEVADA	
MX SITING INVESTIGATION DEPARTMENT OF THE AIR FORCE - DMO	DRAWING 3-11
FUGRO NATIONAL, INC.	

7

1

V A



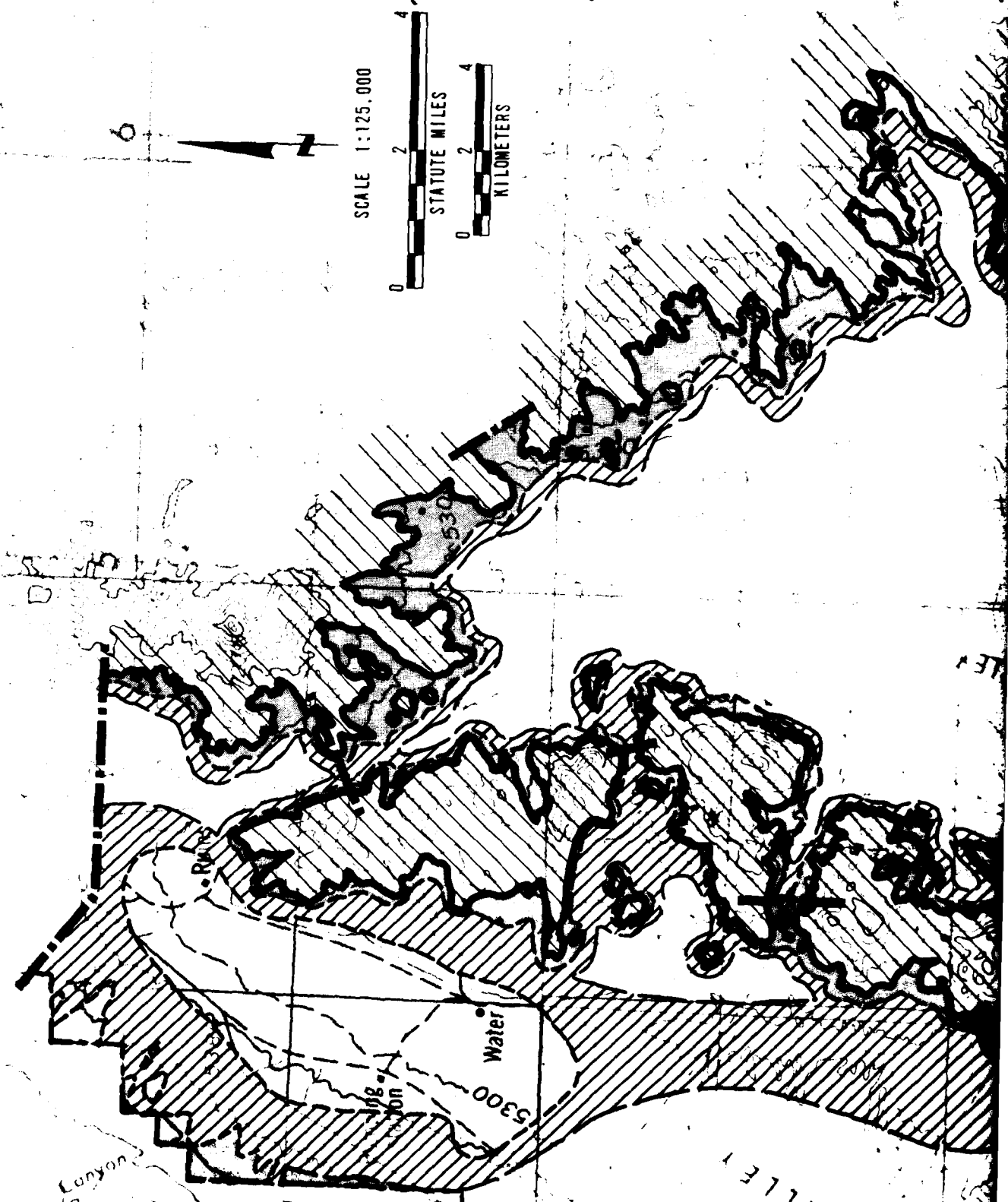
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STATUTE MILES

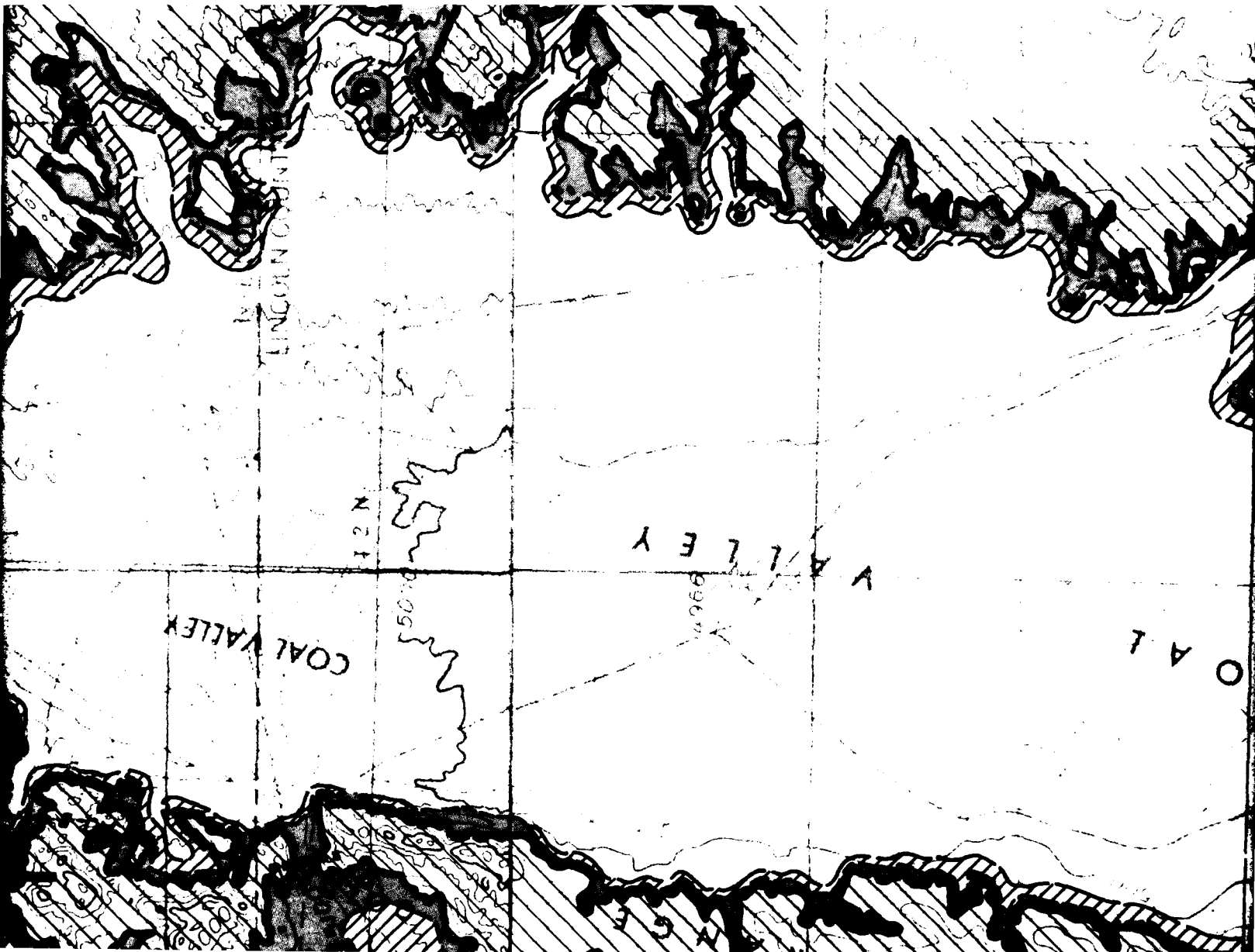


KILOMETERS



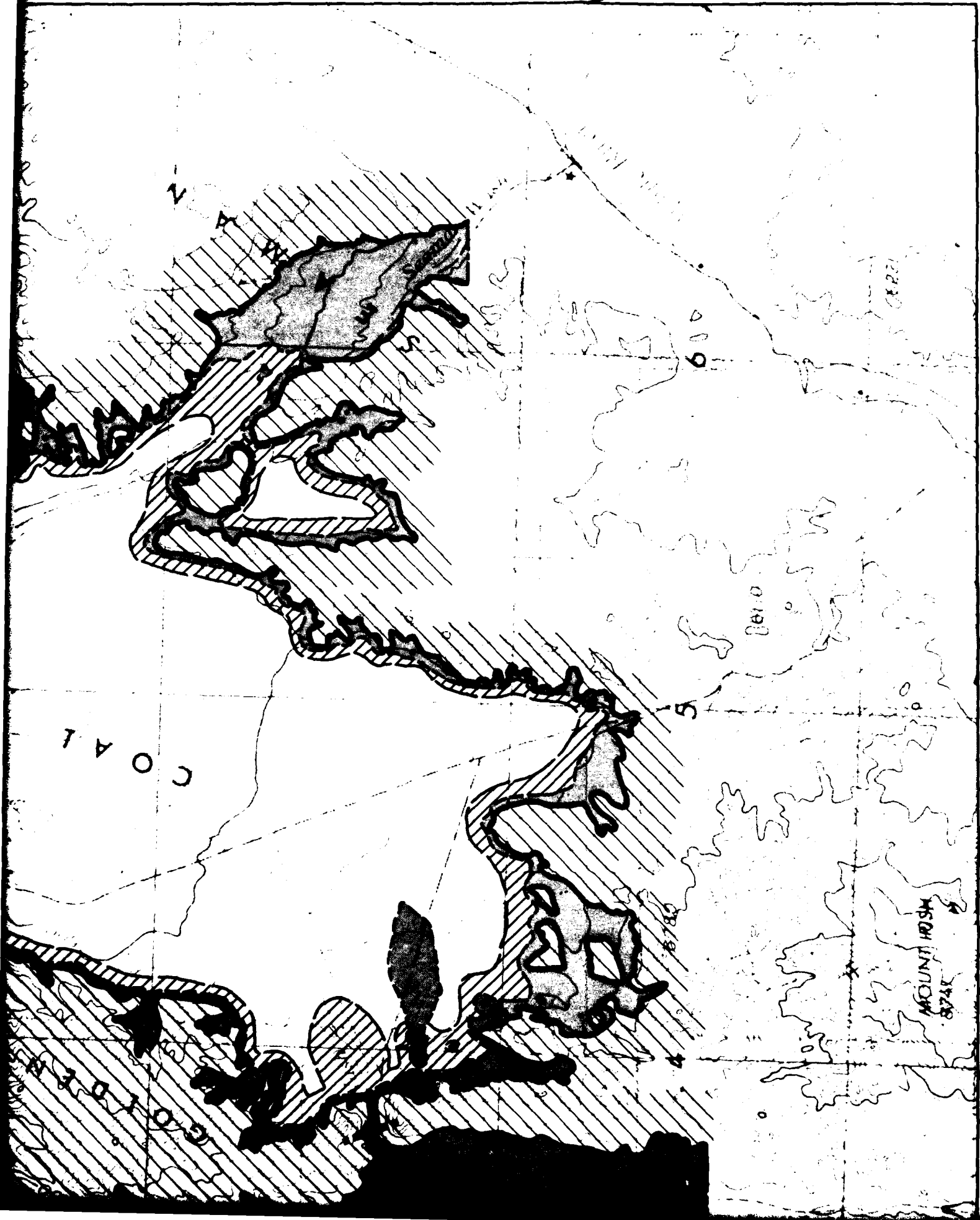
Lanyon

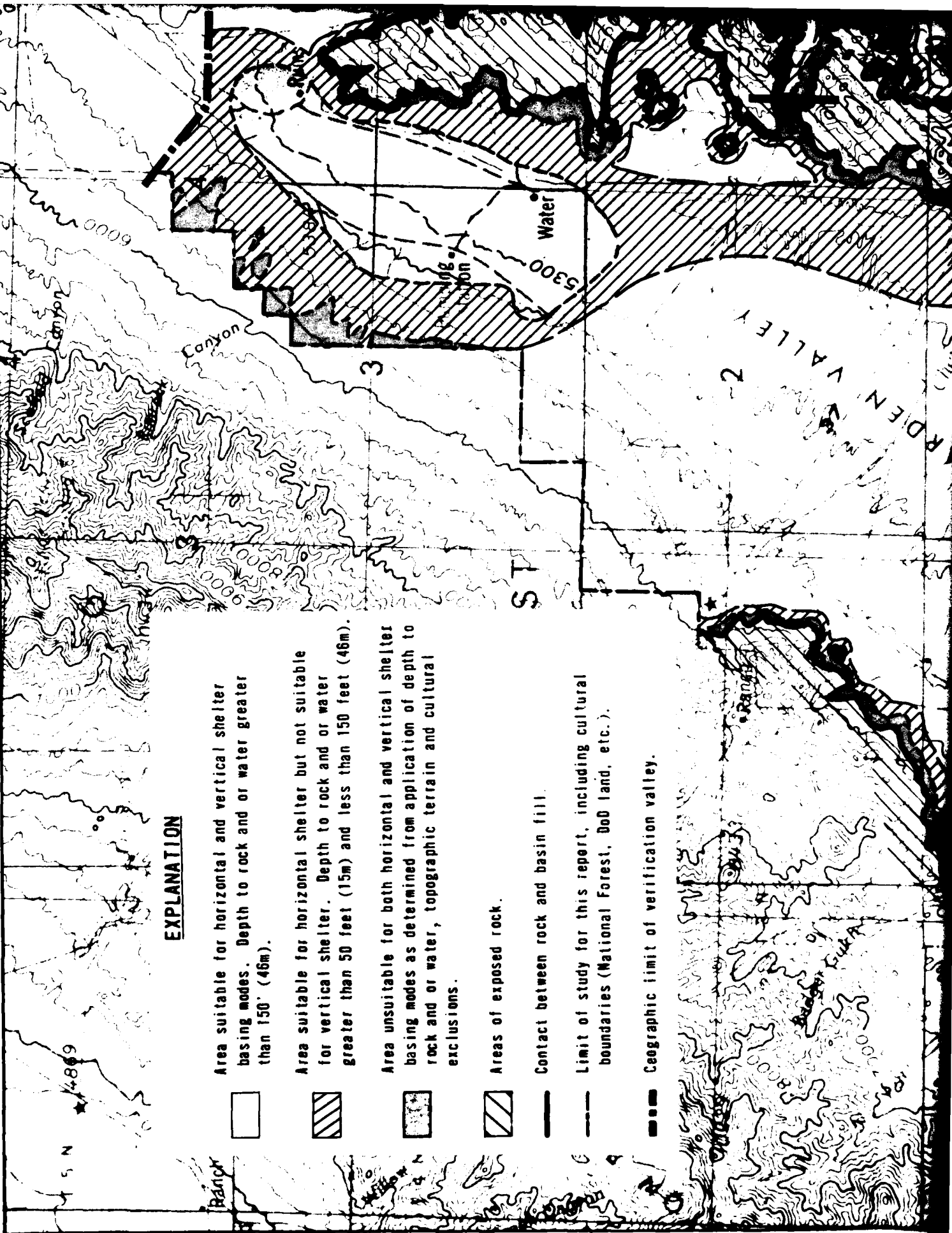
ALLEY










A

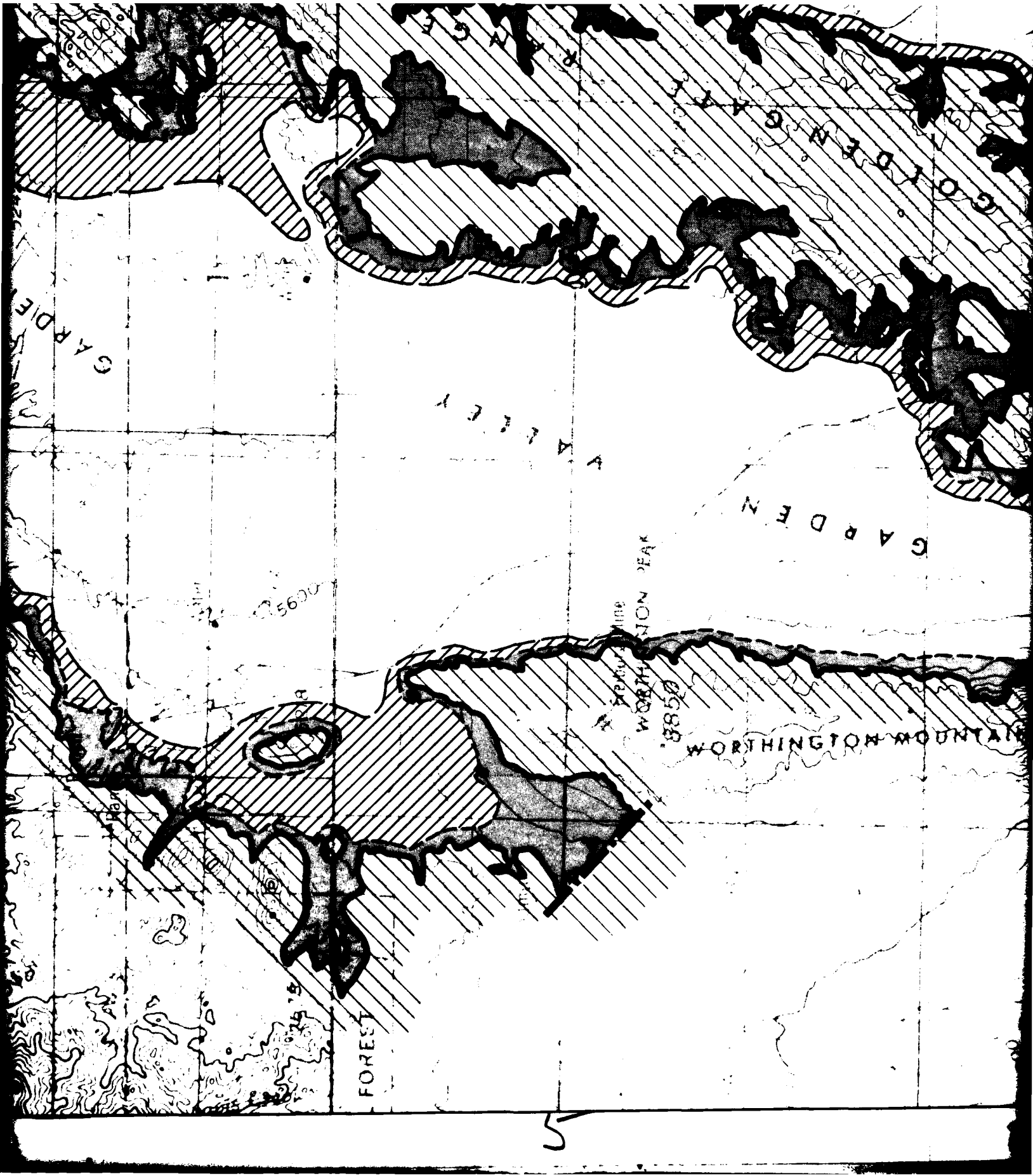
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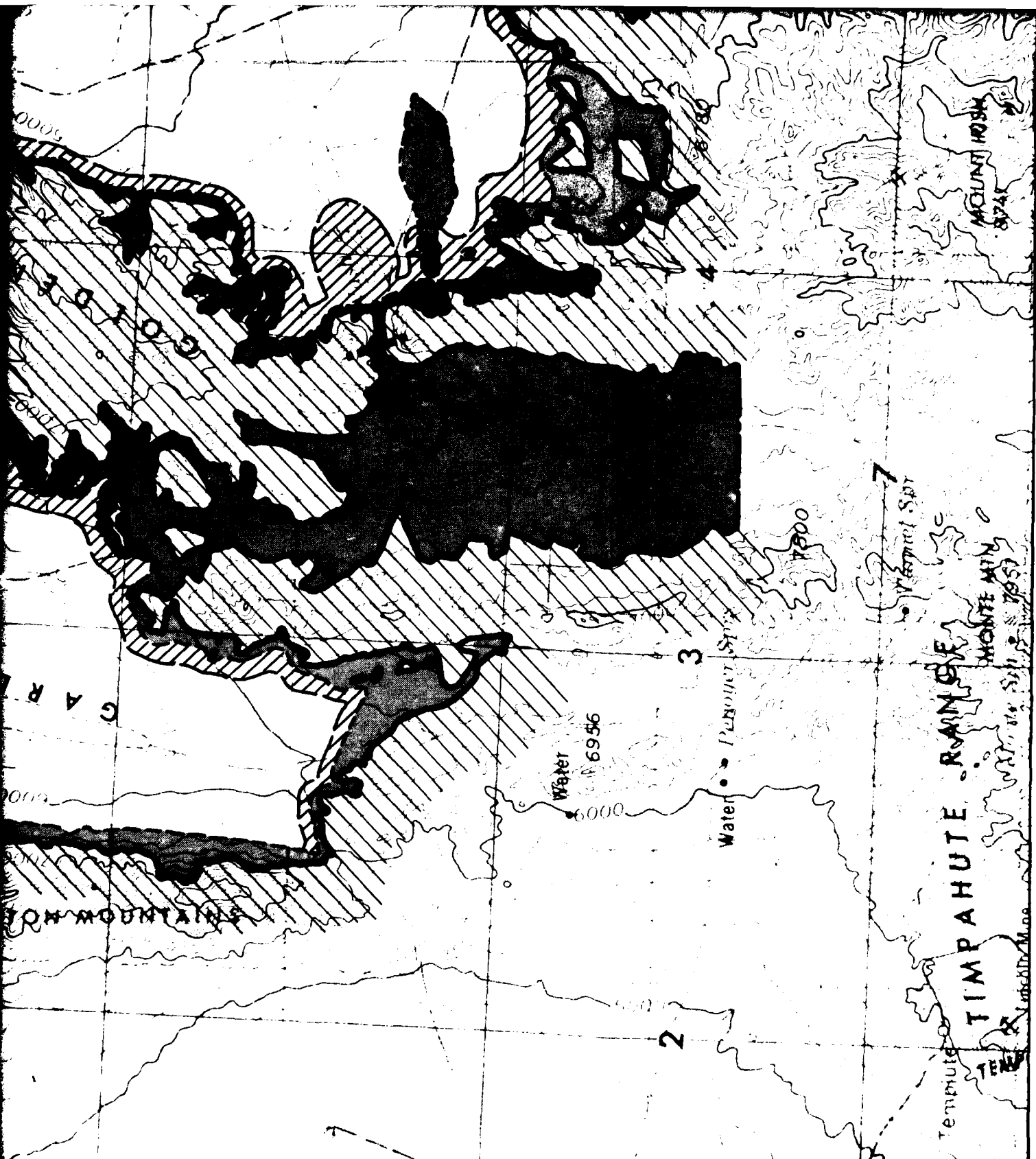




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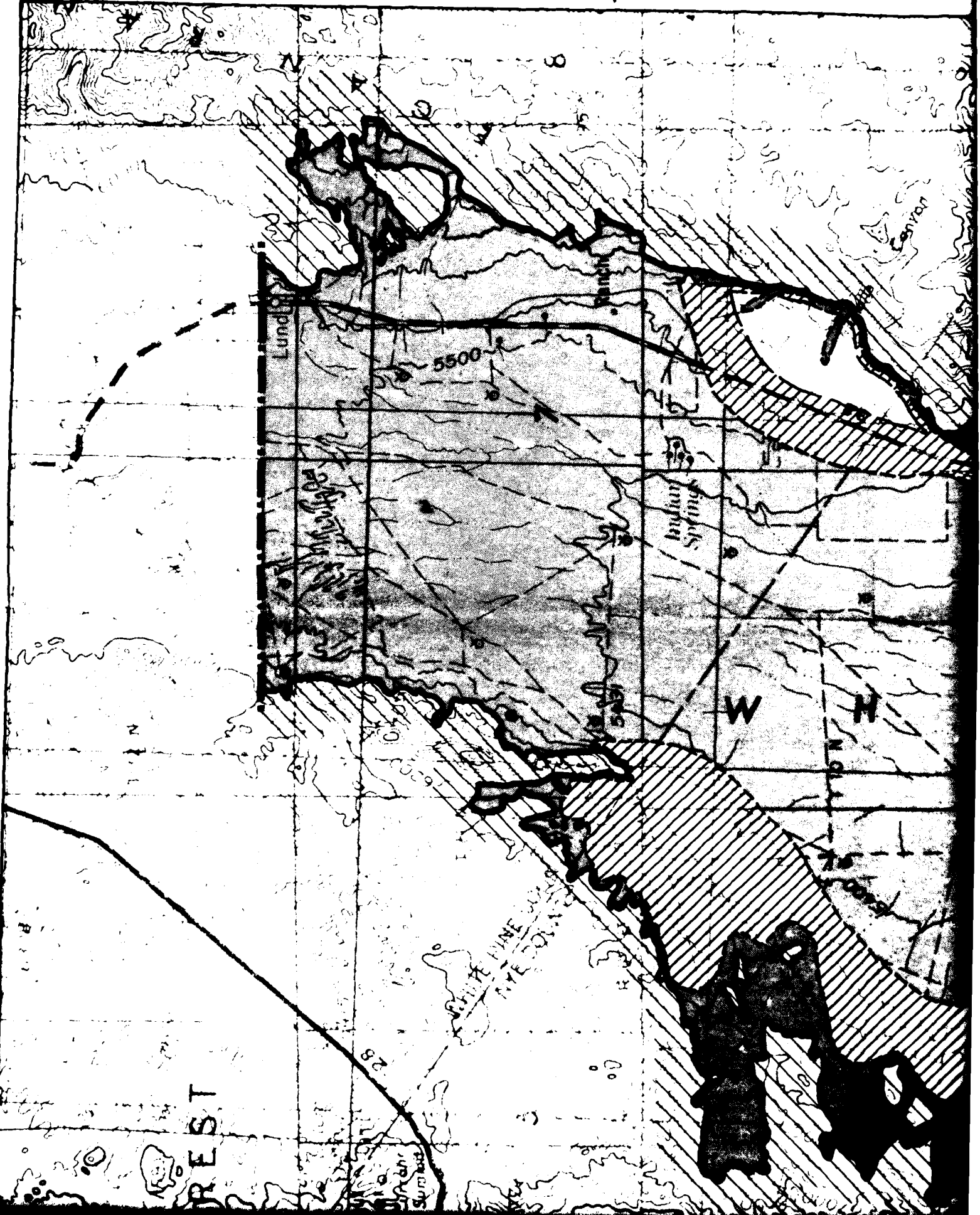
- 
 Area suitable for horizontal and vertical shelter basing modes. Depth to rock and or water greater than 150' (46m).
- 
 Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and or water greater than 50 feet (15m) and less than 150 feet (46m).
- 
 Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and or water, topographic terrain and cultural exclusions.
- 
 Areas of exposed rock.
- 
 Contact between rock and basin fill.
- 
 Limit of study for this report, including cultural boundaries (National Forest, DoD land, etc.).
- 
 Geographic limit of verification valley.





VALLEY

SUITABLE AREA GARDEN AND COAL VALLEYS, NEVADA	
MX SITING INVESTIGATION DEPARTMENT OF THE AIR FORCE	DND
FURRO NATIONAL, INC.	
DRAWING 3-12	



1

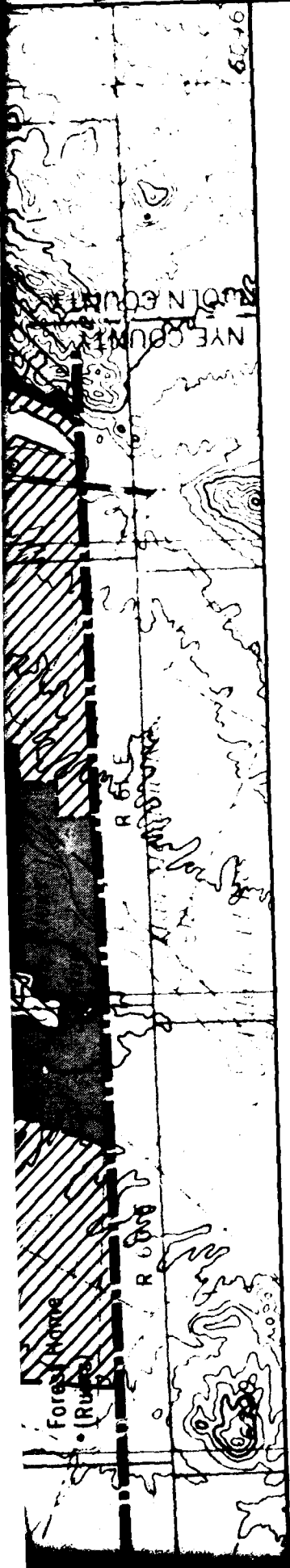
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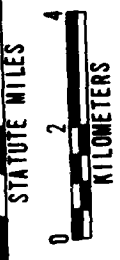
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EXPLANATION

- Suitable for horizontal and vertical shelter
g modes. Depth to rock and or water greater
150 feet (46m).
- Suitable for horizontal shelter but not suitable
vertical shelter. Depth to rock and or water
r than 50 feet (15m) and less than 150 feet (46m).



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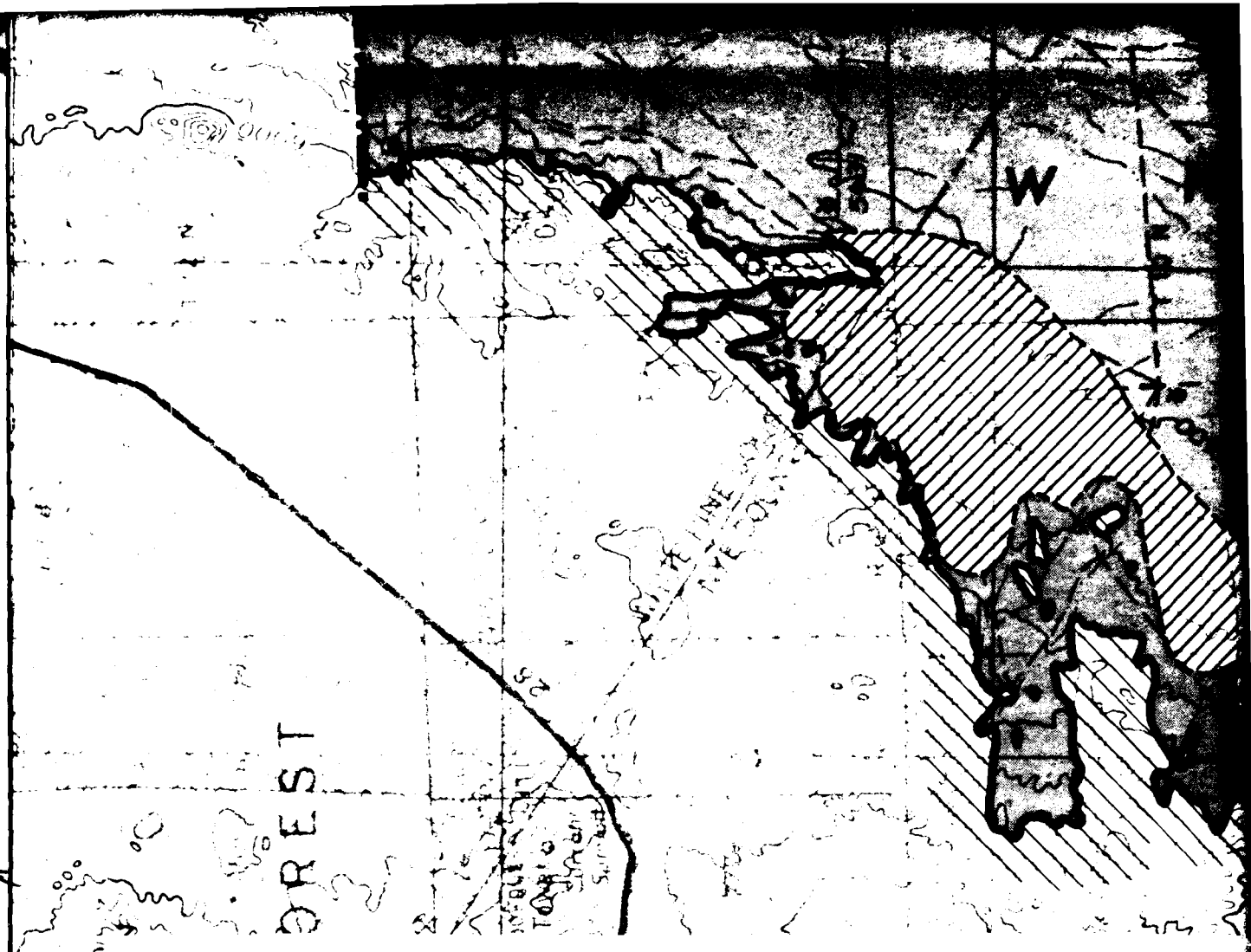
EXPLANATION

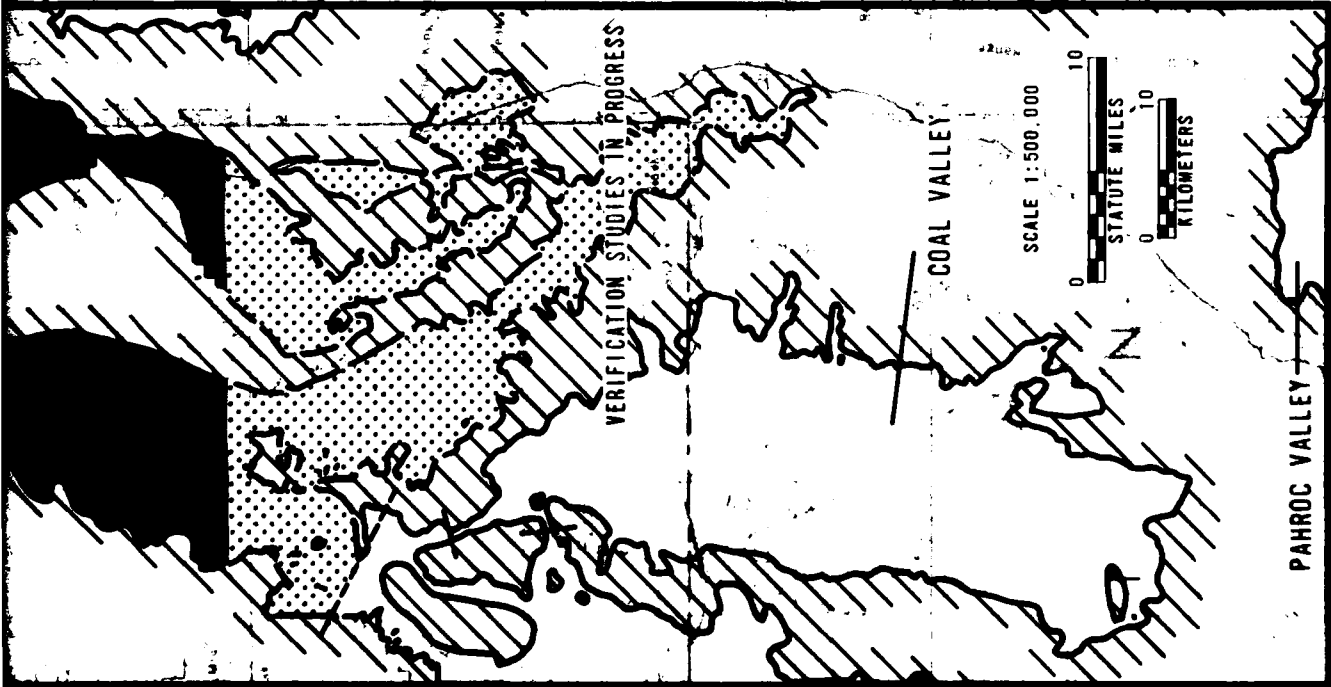
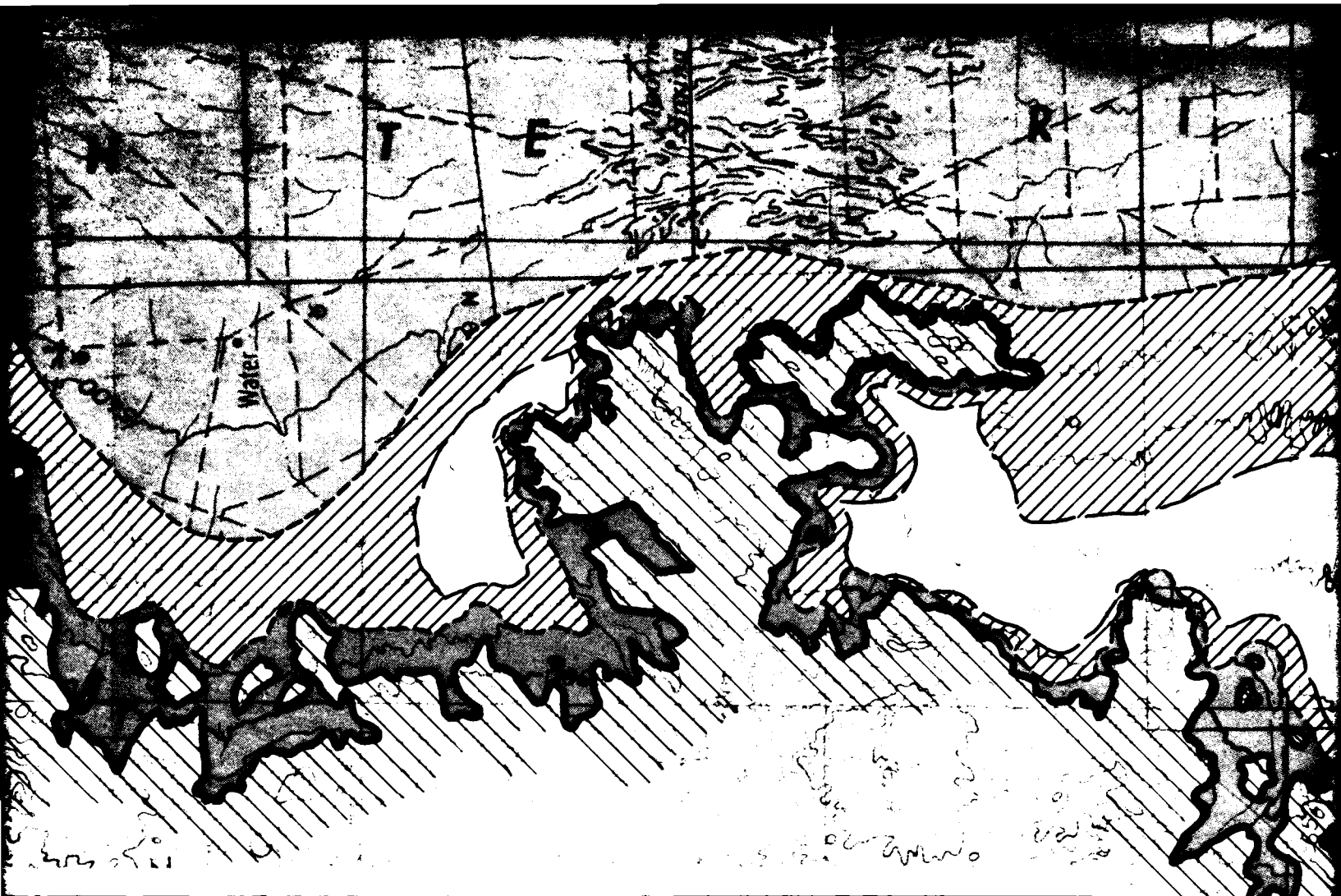
- Suitable for horizontal and vertical sheltering modes. Depth to rock and/or water greater than 150 feet (46m).
- Suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and/or water greater than 50 feet (15m) and less than 150 feet (46m).
- Suitable for both horizontal and vertical sheltering modes as determined from application of depth to rock and/or water, topographic terrain and cultural features.
- Exposed rock.
- Area between rock and basin fill.
- Topographic limit of verification valley.

3

1

4

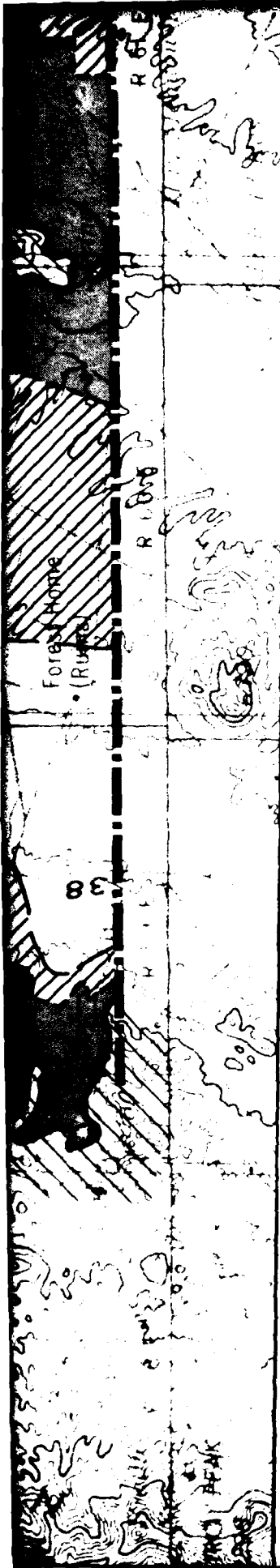












EXPLANATION

□ Area suitable for horizontal and vertical shelter basing modes. North to north and east to east.



EXPLANATION

- 
 Area suitable for horizontal and vertical shelter basing modes. Depth to rock and or water greater than 150 feet (46m).
- 
 Area suitable for horizontal shelter but not suitable for vertical shelter. Depth to rock and or water greater than 50 feet (15m) and less than 150 feet (46m).
- 
 Area unsuitable for both horizontal and vertical shelter basing modes as determined from application of depth to rock and or water, topographic terrain and cultural exclusions.
- 
 Areas of exposed rock.
- 
 Contact between rock and basin fill.
- 
 Geographic limit of verification valley.

SUITABLE AREA WHITE RIVER VALLEY, NEVADA	
MX SITING INVESTIGATION DEPARTMENT OF THE AIR FORCE - DMO	DRAWING 3-13
TRURO NATIONAL, INC.	

