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Charles L.

ANALYSIS OF SITING SUITABILITY,
MX LAND MOBILE MISSILE SYSTEM,
BUREAU OF LAND MANAGEMENT AND
DEPARTMENT OF DEFENSE LANDS

Conducted For:

Department of the Air Force Space and Missile Systems Organization (SAMSO) Contract No.: F04701-74-D-0013

Prepared by:

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

Draft
3 September 1976



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Valley ranking is based on criteria & Depth to Rock, Depth to water and

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Topographic profile.

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ABSTRACT

Areal, geotechnical, and cultural factors pertaining to 33 Department of Defense (DoD) and 35 Bureau of Land Management (BLM) Valleys in Arizona, Nevada, and New Mexico siting regions were evaluated to rank Valleys according to their relative favorability for siting of the MX system. Suitable Valley areas totalling 10,000 square nautical miles (nm²) were delineated based on established criteria, derivative maps were produced at a scale of 1:62,500 and areas of suitable Valleys were measured. A matrix analysis utilizing a computer program was developed to obtain Valley ranking scores based on 15 ranking factors and corresponding weighting factors. Maps of the three siting regions, at a scale of 1:1,000,000, depict suitable Valley areas.

Over 70 percent of all Arizona BLM and DoD, and Nevada BLM Fink in the upper 50 percent of the total. Nevada DoD and New Mexico BLM and DoD rank predominantly in the lower 50 percent. Seventy-four percent (7423 nm²) of the total suitable Valley area is in the upper 50 percent; 30 percent (2248 nm²) of this is DoD land of which 76 percent (1715 nm²) is in Arizona. Eighty-eight percent (1514 nm²) of the Arizona DoD land is in Luke Bombing and Gunnery Range.

It is recognized that the heavy weight placed on areal factors dominates the final ranking and smaller key suitable Valleys are important considerations. Matrix analysis scores and final rankings are used with judgement to recommend Arizona DoD and BLM and Nevada BLM core areas for possible wing deployment consideration. It is also suggested that the New Mexico siting region be considered low priority, and Arizona siting region high priority for Phase 1 and Phase 2 field studies.

FOREWORD

This report was prepared for the Department of the Air Force, Space and Missile Systems Organization (SAMSO) in compliance with conditions of the statement of work as part of Contract No. F04701-74-D-0013 and deals with siting of the MX Land Mobile Advanced ICBM system.

The report was prepared by Kenneth L. Wilson, Project Manager; James R. Miller, Project Geologist; and John W. LaViolette and Gary E. Christenson, Staff Geologists. The graphics were prepared by Edd V. Joy, Gordon M. Brown, and Bruce A. Bowen. TRW Systems personnel monitored the study for SAMSO.

A list of applicable MX siting reports is presented in Appendix A to avoid extensive referencing of the geotechnical and siting reports. A partial list of the abbreviations and term definitions used in this report is presented in Table 1. Figure 1 and Table 2 illustrate the relationship of suitable siting area to siting valleys and geographic valleys.

TABLE 1

List of Abbreviations and Definitions

AZB	Arizona BLM Siting Area (Gila Bend Study Area)
AZD	Arizona DoD Siting Area
BLM	Bureau of Land Management
DoD	Department of Defense
Final Score	The summation of all matrix scores times their corresponding weighting factors for each Valley
Four-Quad	Four combined USGS 15-minute quadrangle maps (scale 1:62,500) comprising Volume II Geotechnical Report large graphics
LBGR	Luke Bombing and Gunnery Range
Matrix Score	Value from 0 to 10 for each ranking factor in the matrix analysis assigned to the smoothed area in each Valley
NBGR	Nellis Bombing and Gunnery Range
NVB	Nevada BLM Siting Area (Nellis Group)
NVD	Nevada DoD Siting Area
NMB	New Mexico BLM Siting Area (White Sands Extension Area)
NMD	New Mexico DoD Siting Area
Ranking Factor	Category used in ranking suitable Valley areas in matrix analysis, i.e., Columns A-O
Ranking Score	Summation of matrix scores for each Valley in the matrix analysis
Siting Region (Siting Area)	Three DoD and Three BLM study areas in Arizona, Nevada, and New Mexico.
0111	mt

Suitable Valley Area (or Suitable Area)

Siting Valley

(or Available

Area)

The portion of available area within the siting Valley remaining after application of all criteria defining unsuitable area

Volume II Geotechnical Reports (DoD and BLM)

considered available for siting of the MX

The portion of a Valley described in

(see Figure 1)

system (see Figure 1).

Suitable Contiguous Area

Suitable area in a siting Valley which is connected to an adjacent given siting Valley by less than ten percent topographic grade

Terrain Analysis

Rating

A rating of basin-fill units based on analysis of terrain characteristics such as drainage incision, drainage density, surface slope, drainage shape, surface CBR values, etc.

Terrain Analysis Scaling Factor

Values of 0.25, 0.5, 0.75, 1.0 assigned to terrain analysis ratings of very poor, poor, fair, and good, respectively

Valley

See Figure 1 and Table 2

Weighting Factor

A value, specific to each ranking factor, multiplied by the matrix score in order to give appropriate relative importance to each factor when deriving a ranking score

WSMR/FBMR

White Sands Missile Range/Fort Bliss Military Reservation

YPG

Yuma Proving Grounds

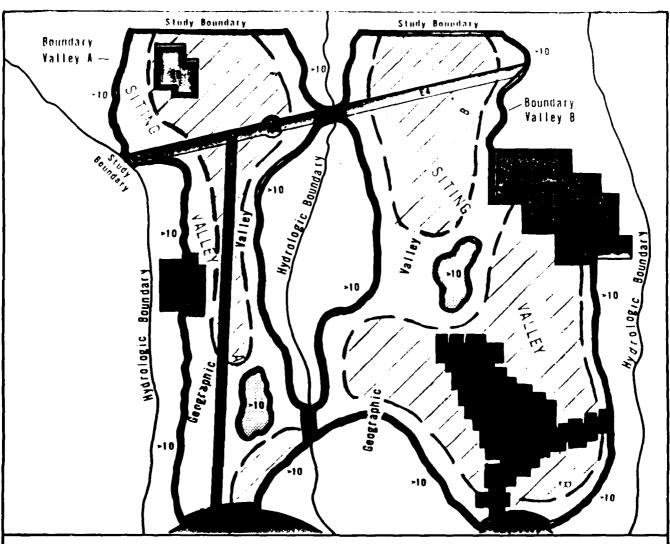
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1	8	Sect 1.1, third paragraph, first line: Clarify "available" siting area.				
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18	26	Sect 2.1.4.1: Delete extraneous discussion. The following are not relevant to the section:					
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27	31	Table 10: (See Comment 16)	į				
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43	39	Sect 3.1: See Comment 2 re ambiguity age terms.	of percent-	A			
46	40	Table 17: Under DOD only - LBGR shou YPG. Under combined DOD/BLM Gila Bend YPG should include LBGR.		A			
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EXPLANATION

Minimum distance from cities with populetion greater than 25,000: 18 nm (33 km)

Minimum distance from cities with populetion of 5,000 to 25,000: 3 nm (5 5 km)

> Minimum distance from populated areas up to 5,000 and WSMR Extension boundaries: 2985 foot (905 m)

Minimum distance from traveled public highways and relireads: 1780 feet (545 m)

Excluded areas, national forests, national menuments, indian reservations: Minimum distance from boundaries: 2965 feet (905 m) Small excluded areas less than 2 sq. nm tetal area have no minimum distance from boundary and are indicated only by the symbol

State fand

Private land

Men-SLM, Mon-DoD federal land (a.g. ERDA)

SYMBOLS

Yaliey boundary

- Siting valley boundary

Area with greater than ten percent topographic grade, within Valley.

 Greater than ten percent topographic grade.

Suitable area

RELATIONSHIPS OF VALLEYS AND SITING VALLEYS TO BEOGRAPHIC VALLEYS

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TABLE 2 Valley Terminology

DoD Lands

A Valley (designated by capitalized "V") is a subarea of a DoD siting area. It is bound by one or both of the following:

- 1. A hydrologic drainage
 divide (most often the
 crest of an intervening
 mountain range); and/or a
- 2. DoD boundary or any other artifically established boundaries such as public highways, township and range lines or national monument borders.

BLM Lands

A Valley (designated by capitalized "V") is a sub-area of a BLM siting area. It is bound by one or more of the following:

- Areas of greater than ten percent topographic grade;
- 2. Large exclusion areas such as National Forests, Indian reservations or quantitydistance exclusion areas;
- 3. DoD boundary or any other (artifically) established boundaries such as public highways, township and range lines, latitude lines; and
- 4. A hydrologic drainage divide (most often at a low relief intervalley connection).

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1.0 INTRODUCTION

1.1 BACKGROUND

This report presents evaluations and rankings of 68 Valleys included in three Department of Defense and three Bureau of Land Management siting areas (Figure 2) with respect to their relative suitability for siting of the MX land mobile advanced ICBM system. Conclusions and recomendations, formulated after evaluation of all available data, are also presented.

A premise of the MX siting study has been to begin with large candidate siting regions and, utilizing data gathered in an ever increasing degree of detail, eliminate areas based on screening or exclusion criteria. Some 26,000 square nautical miles (nm²) of land made up the initial candidate siting regions (Figure 2) in New Mexico, (4462 nm²), Arizona (7220 nm²), and Nevada (14,098 nm²). Data were gathered and analyzed, and after matching data with known or assumed topographic and cultural criteria defining unsuitable land, considerable siting area was determined.

The combined DoD and BLM available siting area totals 18,390 nm² and is made up of increments of land called Valleys which roughly correspond to geographic valleys between mountain ranges. SAMSO's programmed area reduction was from the original candidate siting regions to 12,000 to 14,000 nm² of suitable area for a Phase 1 field program. From this suitable area, a selection of 4000 to 6000 nm² of system deployment area is to be made. This study delineates approximately 10,000 nm² of suitable

1 - 14 15 - 22 13 - 34	35 - 81 82 - 67 68		×
ARIZONA Yuma Proving Grounds Luke Bosbing and Gunnery Range (YPS/LBGR; DoD) Sila Bend Group (BLM) NEVADA Nefits Bosbing and Gunnery Range (MRGR: DoD)	Neifis Group (BLE) XEW MEXICO White Sands Missile Range/Fort Bliss Wilte Sands Missile Range Extension (BLE)	Bureau of Land Management lands Department of Defense land	WHITE SANDS MISSILE RANGE EXTENSION STUDY AREA STUDY AREA
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able area for Phase 1 field work from the 18,390 nm² of available area and also ranks the 68 Valleys comprising this area in order of preference for siting, based on areal, geotechnical, and cultural factors. The actual area reduction schedule is summarized on Table 3. Since the areal values in Table 3 are sums of many smaller numbers and even though the implied accuracy is not required, the number of significant figures has been retained.

TABLE 3
Study Area Reduction Schedule

	ocady i	itea Reduction	Denedule	
As of Study Date Area (nm ²)	May 1974	June 1975	June 1976	September 1976
DoD	12,880	6,894	6,894	4,018
New Mexico	4,031	1,964	1,964	668
Arizona	4,320	2,913	2,913	2,132
Nevada	4,529	2,017	2,017	1,218
BLM	13,000	12,900	11,496	5,987
New Mexico	*	431	203	112
Arizona	*	2,900	2,251	1,801
Nevada	*	9,569	9,042	4,074
Total DoD + BLM	26,000	19,794	18,390	10,005

^{*} BLM area had not been subdivided by siting area.

1.2 PURPOSE AND SCOPE

This study will consider all BLM and DoD Valley areas discussed in the Volume II Geotechnical Reports (Appendix A). The purposes of this study are to:

- Delineate, based on established criteria, the boundaries of land suitable for siting of the MX system;
- 2. Further delineate, based on geologic and engineering judgement, a "smoothed" inner area which would be the most favorable area (suitable area) for Phase 1 field studies; and
- 3. Evaluate all areas Valley-by-Valley by applying existing data to selected matrix ranking factors, weighting each matrix score, and summing the scores in various ways for each Valley (Section 2.0);
- 4. Rank all of the BLM and DoD Valleys based on the matrix analysis according to their relative favorability for siting of the MX system considering areal, geotechnical, and cultural factors; and
- 5. Present an analysis of the ranking including conclusions and recommendations (Section 3.0).

The following ranking factors are categories considered in the matrix analysis (Column letters refer to Table 6):

- 1. Suitable Valley Area (Column A)
- 2. Suitable Contiguous Area (Column B)
- 3. Amount and Quality of Data from Data Summary Sheets:
 - a. Ownership and Control (Column C)
 - b. Geology and Soils Engineering (Column D)

- c. Depth to Rock (Column E)
- d. Depth to Water (Column F)
- e. Surface Hydrology (Column G)
- 4. Favorability of Conditions Based on Existing Data
 - a. Ownership and Control (Column H)
 - b. Geology and Soils Engineering (Column I)
 - c. Depth to Rock (Column J)
 - d. Depth to Water (Column K)
 - e. Surface Hydrology (Column L)
- 5. Potential Impact to Existing BLM or DoD Activities
 - a. Military (Column M)
 - b. Non-Military (Column N)
- Distance from Civilian or Military Support Facilities (Column O)

The above items are based primarily on regional data. The data categories (ranking factors) are compiled from specific data included in the siting and geotechnical reports prepared in the six siting areas and represent geotechnical and cultural elements which can be used to determine siting, deployment, vulnerability, and hardness. However, extensive site specific data will be required before fielding the MX system.

1.3 METHODS AND PROCEDURES

The ranking analysis was performed using the four-quad graphics, text, data summary sheets, and appendices from the DoD and BLM Volume II Geotechnical Reports. Two worksheets at a scale of 1:62,500, termed base and derivative worksheets, were produced for each of the 69 four-quad areas. The suitable siting area remaining after application of criteria defining unsuitable area was accurately delineated on the base worksheet. Unsuitable area criteria were developed following discussions with SAMSO and TRW personnel and represent the most current constraints to siting the MX land mobile missile system; these criteria are listed in Section 2.1.2. To construct the base worksheet, overlays from the four-quad graphics depicting ownership and cultural features (DoD; BLM), geology (DoD; BLM), hydrology (DoD; BLM), and topography (DoD) were superimposed and areas not excluded by established criteria were outlined. The borders of the base suitable area were delineated using coded line symbols representing the individual criteria upon which the boundary line was based. A description of the line symbols used is shown in Table 4.

A derivative worksheet was constructed from each base worksheet. This involved "smoothing" of the base suitable area boundaries based on geologic and engineering interpretation relative to which areas would be most favorable for Phase 1 field studies. The derivative suitable area in most cases varied less than five percent from the base suitable area. Principal changes occurred where a sinuous ten percent topographic grade line was

TABLE 4

Line Symbols for Boundaries of Suitable Area

Line Symbols	Line Description
	Ten percent grade.
	- 100-foot depth to water.
	- 100-foot depth to rock.
	National parks or monuments and Indian reservations (E5).
	Corridors 1780 feet wide on each side of all U. S. highways, state routes and railroads (E4).
	 Minimum distance from inhabited areas (El, E2, E3).
-x-x-x-x-x-x-x	Estimated 100-foot depth to water.

Where two line symbols meet, a perpendicular separation line was drawn (e.g.,

smoothed to eliminate small valley re-entrants and other irregularities along the valley margin. Depth to rock, depth to water, and ownership and culturally controlled boundaries generally were not changed.

A comparison between the suitable area on the base and derivative worksheets for representative four-quad areas is shown in Table 5. All worksheets are on file and available at Fugro National, and are not included with this report.

To facilitate data compilation, Valleys were assigned numbers from one to 68 based on alphabetical groupings of the designated DoD and BLM Valleys in Arizona, Nevada, and New Mexico. These Valley numbers occur on the Valley Analysis Matrix (Table 6,



TABLE 5

Comparison of Suitable Areas on Base and Derivative Worksheets

Four-Quad Sheet (Arizona)	Are Base Worksheet						
GB-5	408	406	0.5				
GB-6	333	329	1.2				
GB-9	193	184	4.7				
GB-10	389	356	8.5				

Section 2.0) and on all report graphics (Drawings 1, 2, and 3), and should not be mistaken for actual ranking values. In this numbering system, Valleys which cross the DoD/BLM boundary and are contiguous were considered to be separate Valleys in the matrix analysis.

Vekol Valley (Arizona, DoD) and Mohave Wash Valley (Arizona, BLM) were eliminated from ranking consideration since neither contained suitable area after applying the criteria defining unsuitable area. These Valleys were assigned matrix scores of zero for all subsequent ranking factors.

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- 2.0 MATRIX ANALYSIS
- 2.1 RANKING FACTORS OF VALLEYS

2.1.1 GENERAL

As presented in Section 1.2 the factors, with their matrix column letter designations, considered in ranking of all Valleys are:

- 1. Suitable Valley area (Column A);
- 2. Amount of suitable contiguous area (Column B);
- Amount and quality of data (Columns C-G);
- 4. Favorability of data (Columns H-L);
- 5. Potential impact (Columns M and N); and
- Distance from civilian or military support facilities
 (Column O).

Each of the ranking factors is discussed in detail in following sections (2.1.2 through 2.1.7). Matrix scores from zero to ten have been assigned to each of the 15 categories (A through O) for each Valley and are presented in matrix form in Table 6 (Matrix Analysis). Factors have been appropriately weighted to yield the Final Score shown on Table 6.

Valleys are ranked in five ways based on ranking scores presented in the matrix analysis (Table 6). The combined Areal plus Geotechnical Score and the Final Score involve the use of weighting factors since not all categories in the matrix analysis are of equal importance. The various rankings are listed below (capital letters refer to column headings in Table 6) and listings of Valleys in order of numerical rank (W) for each of these ranking scores are included in Appendix D (including Wildlife Ranges) and Appendix E (excluding Wildlife Ranges):

TARLE . - MATRIE ANALYSIS

VALLEY			r	n	F	84	VK J NI	G # A	C TOR!	3	"			u	n	,	RAN	4 I NG	8C 70E	•••
MU" MWE	•	_	٠,	"	•	•	•	-	,	,	-	L	_	-	"	•	•	_	,	•
1 CASTLE DIME AZD	5	•	A	•	5	2	•	10	•	•		•	4		10	3	••	**	10.5	49.6
S BILA BEND PLAIN AID	,	1	7	4	•	3	5	10	•	•		10	4	10	10		47	41	14.0	40.0
3 RPHILER/CHILDS AZO	•	7	•	•		?	•	10	•	7	•	•	•	4	10	15	**	30	57.4	75.4
e indiam mash azd 5 king azd	1	;		5	10	5	5	10	7	7		7	•	Ä	10	ສ໌ 3	45	36	21.0	41.4
S KING AZO • LA POSA PLATO AZO	í	,	•	4	3	1	•	10	tó	Á	10	10	4	ä	i	š	51	80	31.4	51,4
7 LECHUGUILLA DESERT AZO	i		•	Ĭ	í	į	Ś	10	30	3	Ä	10	ă	ä	10	í	47	34	30.4	57.8
A MUMANE HASH ASD	1	1	6	4	10		5	10	•	1	5	•	10		10	2	44	44	55.7	43,7
T MOMANK/TULF AZD	1.0	•	6	4	3	?	4	10	•	7	•	•	4		10	16	44	34	41.5	70,5
10 PALIMAS PLATH AZD	1	•	7	5	3	1	•	10		3	2	10	•	10			34	30	24.1	45.0
11 SAM CRISTONAL AZO	5	•	'n	•	•	,	5	10	A	7	•	•	•	4	10	117	44	41	47.1	64,7 58,1
12 BENTINEL PLATO AZO 13 VEKOL AZO	7	3	Ċ	4	ň	5	ō		6	é	i	1 ^	•	7	6	Á	7	7	44.2	,,,
14 YUMA DEBERT AZD	ž	ï	ï	4		ş	3	10	ě	7	Ă	10	Ä	10	10	3	4	40	30.4	50.4
15 MUTLER AZR	ě	5	•	4	3	5	4		7	•	2	10	10			•	45	.3	41.0	59.3
16 CAPTUS PLAIN AZR	3	•	10	5	3	1	3		4	7	•	•	10		10	•	34		37.5	56.9
17 HARQUAMALA PLATY AZH	7	6	10	5	3	5	3	5	7	•	Š	•	10			13	41	•1	49.7	.65.1
IR LA POSA PLAIN A/R	5	4	•	5	3	9	•	•	•	•	Ş	•	10		10	•	30	41	50.5	59,2
19 MC MINLEY AZR	ň	•	10	5	-	7	ō	6	ò	8	5	•	10	6		10	44	- 6	**.1	50,5
21 PALIMAS/MYNER AZR		5	10	ä	ï	ĭ	4	7	Ă	Ť	Ş	ě	10	ĕ	Ä	11	41	43	**:5	. 3, 9
22 RANFGRAS PLATN AZR	ÿ	10	10	\$	ĺ	1	4		ï	•	ž	Ä	10	è	Ā	17	30	40	50.7	74.5
23 BUCKMOARD MERA NAD	1	1		4	1.	6	5	1	10	•	4	•	5	10	10		47	31	26,2	30.6
24 CACTUS FLAT NYR	4	5	•	4	7	5	•	5		•	2	7	2	10	1.0	•	40	34	30.0	53,5
25 PHIGRANT NVD		3	. 7	3	Ů	•	5	Ą	A	5	•	•	4	•	•	7	36	33	34.5	49.9
26 FRENCHMAN FLAT NVD	1	?	10	•	•	•	5	.1	•	3	10	•	š	10	10	3	50	33	1.65	34,7
27 GM O FLAT 440 28 Indian Spaing NVD	;	1		3	6	0	•	10	7	7	10	•	•	10	10	:	30	33	?• ,•	45,4
34 HT-1CH AAU	;	Ś	ă	3	ž	1	į	10		4				ž		•	<i></i>	32	32,5	49.1
SO PANUTE HESA NVO	i	í	ě	á	ż	Ť	Ś	10	ė	ï	10	ě	ž	10	10	ź	41	40	25,1	44.5
31 STINFWALL FLAT NON	i	ż	A	•	5	5	•	10	8	3	7		ě	10	10	3	37	44	53.5	45,8
32 THREE LAKES NON	5	1	A	3	ń	1	•	10		5	4	8	4	?	10	3	34	34	25.1	42.7
53 TERAHOP NVO	1	5		3	0	. 5	5	10	•	5	10	•	•	. ?	A	3	4.1	34	54.1	46,3
34 VUCPA FLAT NVD	•	Ç	10	•	10	10	•	1	À	6	10	7		10	10	4	6.3	33	33,5	44,1
35 AMARGISA DERFRT MVR 36 ANTELIPE NVR	- ?	}	10	5	3	5	•	- 7		÷		10	10	8	10	5	45	44	34,3	53,7
37 BIG SHINE AAN	•	3	10	3	ì		3	ň	Ä	ě	ž	10	10	ő	i	á	46	44	30,0	5A, 3
SR CAVE NVH	ī	Í	Ä	á	ź	ż	ž	Ÿ	•	7	è	5	10	Ä	10	4	36	45	26.3	46.5
39 CLAYTON-ALKALI SPRING NYR	2	4	10	•	1	1	5	•	•	7	4	10	10			7	86	45	37,5	56.9
40 COYNTE SPHINANT SPH NYR	4	1	10	•	5	2	3	5	•	8	4	10	10	•	•	5	43	37	34,2	48,0
41 DELAHAR/PAHROC NVR	3	?	10	•	3	Ş	3	10	•	7	•	•	10	Ą	•	5	43	43	33.7	52.4
42 DRY (AME /MILLE BHOF WAR 43 GARDEN/COAL WAR	•	3	10	-	3	?	•	10	8	•	10	# 7	10	î	:	ï	49	42	44.2	62,6
44 MUL CAEFE MAN	3	ί,	10	5	3	•		10	Ä	•	10 A	16	, ,	8	10	- 1	52	43	45,3	61,5
45 THOTAN SPHING NYR	í	i	10	á	,	ī	i	10	•	•	10	' "	10	Ă	ii	Ĭ	48	48	33.4	54.8
46 JAKES HVR	ż	1	10	5	3	į	3	10	•		i٥	5	10	A	ě	5	42	44	76.4	46.8
47 LTTTLF FISH LARF NVS	Ĩ	0	10	- 5	>	4	5	7	À		7	10	•		•	1	44	70	\$2,3	38,5
48 LITTLE SMIKY NYR	•	1		5	3	•		12	A	•	4	10				•	**	40	43,4	42,4
49 MONITOR NVS	:	•		5	2	3	•		7	•	2	•	10		10	5	42	44	30.9	50.1
SI PAPPARAGAT NYA	1	•	-	4	1	3	3	-	,	:		10	10	-	•	- ?	41	41 39	30,3	40.5
52 PENNYFR NYA	Š	3	Ä	3	ì	5	4	Ť	10	i	7	10	10	Ā	ī	Ä	50	41	47.3	40.5
SE MATLONAN NVH	Š		A	5	Š	á	5	Ą	ě	ě	•	10	·	•	ě	11	49	36	40.	
SA RATI BUAD/REVEILLE NVM	•	٨			3	3		10			8	10			10	11	48		49,1	49,7
SS RALBTON NYR	5	5	1.0		3	4	3	10		•	10	•	10	•	10	10	50	48	47.	44.3
SA BAPCHHATUS PLAT NVR	1	5	10	•	Ş	3	•	7		•	Š	10	10	•		3	45	43	24.	44,3
57 STONE CAMIN MYM 58 STONE-ALL FLAT NYM	3	•	10	2	3	3	3	10	7	•	7	-	.:	i	10	7	37	46	40.3	61.1
39 THREE LAKES NOR	í	1	Ä	4	2	7	;	10	10	10	Z	10	10		10	;	48	35	70.3	46.1
AN THARMO NVA	i	i	Ä	3	2	3	,	Š	•	•	10		10	ä	•	•	30	37	37,3	51,9
61 WHITE RIVER NVR	4		10	5	•	4	5	7	A	•	. 5	•	10	•	8	10	45	41	43.7	00,5
PS HOECH BUTBUN AND	1	3	•	5	10	10	3	10	•	3	4	1	4	A	10	4	47	45	1,55	45.4
63 JORNADA DEL MUFRED N NMP	2	1	10	5		0	3	ě	•	5	5	10				3	4)	40	25.7	41.5
A JORNADA DAL MIRATO & NAO	!	0	•		. 1	7			7	•	Š	10	•	Ā	10	1	40	41	\$0.8	30.3
65 TH ABUSA BASTN N NMD 66 THLABUSA BASTN S NMD	1	,	10	•	10		10		7	10	7		•	8	10	5	57	45	24.1	42.3
67 TULAPOSA MASTY F NYO	Ş	í	17	á	10	3	10	10	7	"	•	Ä	-	7	, 0	ï	44	41	42.1 24.7	43.R
AN JORNADA DEL MITERTII HMM	ž	i	10	ī		í	2	- "5	ÿ	7	ž	Ä	ě	Ä	10	i	33	41	24.0	39.0
· ·					-	-	-	-			_		-		-				•	

MPIGHTING FACTORS

2.7 2.2 .1 .1 .1 .1 1.0 1.0 1.5 .5 .5 .3 .5

SPANNING FACTIONS

- A SHITTARLE VALLEY AREA

 B SUITARLE VALLEY AREA

 C SHARKSHIP AND CONTROLOS AREA

 C SHARKSHIP AND CONTRESS (AMOUNT AND GUALITY)

 D SUPPLICATION OF CAMBURT AND COLLITY

 F SOPERATE (AMOUNT AND COLLITY)

 G SHARACE MYPRIL COY (AMOUNT AND COLLITY)

 H S CONTROLOS AND CONTROLOS AND COLLITY

 H S CONTROLOS AND CONTROLOS (FAVORARILITY)

 J S OFFIN TO MICH (FAVORARILITY)

 F OFFIN TO MICH (FAVORARILITY)

 F OFFIN TO MICH (FAVORARILITY)

 M S OFFIN TO MICH (FAVORARILITY)

 M S POTENTIAL IMPACT (CTITTARY)

 N S POTENTIAL IMPACT (CTITTARY)

 N D OTSTANCE TO SUPPORT PACTITITES (MILITARY AND CIVILIAN)

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- P = AREAL RANKING SCORE (A+R)

 D = GENTECHNICAL RANKING SCORE (B+E+F+B+I+J+K+L)

 R = CULTIFICAL RANKING SCORE (C+H+H+H+L)

 Z = AREAL + SECTECHNICAL SCORE (P+B bith weighting)

 Z = FINAL SCORE (P+D+R nith weighting)

- P. Areal Ranking Score (A + B)
- Q. Geotechnical Ranking Score (D + E + F + G + I + J + K + L)
- R. Cultural Ranking Score (C + H + M + N + O)
- S. Areal plus Geotechnical Score (P + Q with weighting factors)
- T. Final Score (P + Q + R with weighting factors)

The weighted Final Score (T) was determined using the following equation:

$$T = m_{A} (w_{A}) + m_{B} (w_{B}) + \dots + m_{O} (w_{O})$$
where m = unweighted matrix score (Table 6)

w = weighting factor (Table 6)

The weighted Areal plus Geotechnical Score (S) was determined in a similar manner with the exclusion of all cultural factors (C, H, M, N, and O).

The numerical ranking scores, including appropriate weighting factors, were determined by computer, allowing a degree of flexibility and versatility when considering various weighting factors (areal, geotechnical, and cultural). Rankings in Appendices D, E, F, and G are copies of computer output. An additional copy of Table 6 is included in Appendix D to allow continuous reference while reviewing the following sections.

Values used for weighting factors (Table 6) were determined through discussions with TRW and SAMSO personnel after performing several iterations using different sets of weighting factors. The values selected indicate the great importance placed on areal

considerations since siting feasibility is fundamentally dependent on whether or not sufficient suitable area is present to deploy the system. Favorability of ownership and surficial geotechnical and soils engineering data are considered important since these ranking factors directly affect the difficulty and cost of land acquisition and construction and maintenance. Other geotechnical factors such as depth to rock, depth to water, and flooding potential are less precisely known and after initial consideration, are of less direct importance in defining the suitable Valley area. Cultural factors such as distance to support facilities and potential impacts are also considered of secondary importance since both can conceivably be mitigated given the potentially large scope of the project. However, it should be remembered that the direct environmental impacts are not considered here and later considerations may require that the weighting factor applied to this category increase significantly. Amount and quality of data are considered the ranking factors least important since neither relate directly to siting considerations, but are principally indicators of the reliability of the cultural and geotechnical data used to derive the applicable matrix scores and to delineate the limits of the suitable area.

2.1.2 SUITABLE AREA

Suitable area or suitable Valley area (Figure 1) is hereafter the "smoothed" area (derivative) remaining after removing those parts of a Valley having:

- 1. Depth to rock less than 100 feet (including pediments);
- Depth to water less than 100 feet;

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- 3. Areas with greater than 10 percent topographic grade;
- 4. Cultural and quantity-distance exclusions:
 - a. Minimum distance of 2965 feet from National Forest, Monument, Indian Reservation, and Dob boundaries;
 - b. Minimum distance of 1965 feet from inhabited buildings;
 - c. Corridors 1780 feet of each side of all traveled public highways and railroads;
 - d. Minimum distance of 18 nm from cities with populations greater than 25,000;
 - e. Minimum distance of 3 nm from cities with populations between 5000 and 25,000; and
 - f. Minimum distance of 2965 feet from populated areas up to 5000.

These areas are shown at a scale of 1:1,000,000 in Drawings 1, 2, and 3. The actual suitable area values for the six siting areas are shown in Table 7. Suitable areas of individual Valleys are given in Appendix B, along with total Valley areas for comparison.

Suitable Valley areas represent reductions in size of the Valleys ranging from approximately 20 percent to 100 percent. This suitable Valley area was converted to a score of zero to ten by multiplying the suitable Valley area by a constant equal to ten times the reciprocal of the largest suitable Valley area (Mohawk-Tule Valley - No. 9) as shown in the following example for Castle Dome (Valley No. 1) in the Arizona Siting Region:

126 nm² (Castle Dome) x 10 x
$$\frac{1}{521 \text{ nm}^2 \text{ (Mohawk/Tule)}}$$
 = 242 or 2

TABLE 7 Suitable Area (nm^2) in Siting Areas

	Aria	zona	Neva	ada	New Mo	exico	Tota	1
	a	b	a	b	ā	b	a	b
DoD	2132	1612	1.218	937	668	668	4018	3217
BLM	1801	1801	4074	3862	112	112	5987	5776
Total	3933	3413	5292	4799	780	780	10,005	8992

- a. Area including wildlife ranges (Cabeza Prieta, Desert

 National Wildlife Range, Wild Horse Range, see Figure 3).
- b. Area excluding wildlife ranges.

1)

Matrix scores for this ranking factor appear on Table 6 (Matrix Analysis) in Column A. Valleys receiving a score of zero in this column were also assigned a score of zero in all subsequent columns. The scores for Column A in the Matrix Analysis excluding Wildlife Ranges (Appendix E) were recomputed for the suitable area remaining after excluding Wildlife Areas.

2.1.3 AMOUNT OF SUITABLE CONTIGUOUS AREA

Suitable contiguous area is the sum of the suitable area in Valleys which are adjacent and connected by areas of less than ten percent topographic grade to the Valley under consideration. Although the suitable Valley areas are not necessarily contiguous, the Valleys within which they occur are contiguous. Total areas for each Valley (by Valley number) and suitable contiguous Valley areas are tabulated in Appendix B. Matrix scores for suitable contiguous area were assigned in the same manner as for suitable Valley area by multiplying the suitable contiguous area by a constant equal to ten times the reciprocal of the suitable contiguous area of Ranegras Plain - No. 22 (the Valley with the most suitable contiguous area). These scores appear in Column B of Table 6 (Matrix Analysis). An example of such a calculation using Castle Dome, Arizona yields:

148 nm² (Castle Dome) x 10 x $\frac{1}{1446 \text{ nm} \text{ (Ranegras Plain)}}$ = 1.02 or 3

The scores for Column B were also recomputed for Apendix E, when applicable.

2.1.4 AMOUNT AND QUALITY OF DATA

Matrix scores shown on Table 6 representing the amount and quality of data were derived from Data Summary Sheets. These scores are based on data for the entire Valley, but are considered to be valid for the suitable Valley areas. Scores from one to ten were assigned to each of the following Data Summary Sheet categories:

- 1. Ownership and Control;
- 2. Geology and Soils Engineering;
- 3. Depth to Rock;
- 4. Depth to Water; and
- 5. Surface Hydrology.

On the Data Summary Sheets an open circle (O) represents insufficient data, whereas half (Θ) or full (Φ) circles represent estimated or known values derived from the available data, respectively. The value denoting the amount and quality of data was based on the percentage of full and half circles to the total number of circles (i.e., the total number of subcategories within each of the five major categories) according to the formula:

The matrix scores in Columns C, D, E, and F were determined by assigning a score of one to ten, based on the rounded value of the raw score. Categories of data on the Data Summary Sheets differed slightly between DoD and BLM reports. All amount

and quality of data tabulations were done by comparing categories in the Volume II reports and only data categories which were common to both DoD and BLM reports were used in order to equate data and to arrive at a valid comparative assessment.

No data categories meaningful to the ranking were dropped.

2.1.4.1 Ownership and Control

Sub-categories under Ownership and Control were taken from the Ownership and Cultural Features Data Sheets in Volume II DoD reports, and Ownership, Cultural Features, and Topography Data Sheets in Volume II BLM reports. Quality of data symbols representing area of Valley, area of siting Valley, ownership, cultural improvements (location, type, and use of roads, railroads, and utilities), and area and use of contiguous DoD/BLM or Co-Use land were compiled and considered in the matrix analysis (Table 6, Column C). Data regarding topographic conditions (BLM Data Sheets), cultural and quantity distance exclusions (DoD Data Sheets), and military/governmental use areas (DoD Data Sheets) were not utilized primarily because the amount and quality of such data did not change from Valley to Valley, or because such data were not included in both DoD and BLM Data Summary Sheets.

2.1.4.2 Geology and Soils Engineering

Geology and Soils Engineering Data Summary Sheets from DoD and BLM reports were used to calculate amount and quality of data scores. Separate values were calculated for geology and for soils engineering which were averaged to yield the final matrix score

(Table 6, Column D). Geology Data Summary Sheet categories denoting conditions of exposed rock (lithology, location, and seismic velocity), pediment (location and extent), basin-fill deposits (type, thickness, seismic velocity, and lithology), and presence of capable or potentially capable faults (length, location, type, atitude, and minimum age of displacement) were considered. Amount and quality of data on Soils Engineering Data Summary Sheets is not depicted through the use of symbols similar to those on all other sheets. Data included on these sheets were evaluated based on a ratio of the number of categories which contained known values derived from the literature to the total number of categories. Categories considered included sieve analyses, Atterberg limits, dry density, permeability, shear strength, shrink-swell potential, compressibility, compression/ shear wave velocities, water content, and presence of deleterious substances.

2.1.4.3 Depth to Rock

Data for this category were taken from the Geology Data Summary Sheets. Rock at depths of zero to 250 feet, 250 to 500 feet, and at unknown depths were considered in evaluating the amount and quality of data. A matrix score (Table 6, Column E) was calculated from these data categories, with an additional one point being assigned to Valleys for which at least one Defense Mapping Agency (DMA) gravity profile was available (BLM) or could be produced (DoD).

2.1.4.4 Depth to Water

Data symbols characterizing the depth to groundwater information

were compiled for increments of zero to 25 feet, 25 to 50 feet, 50 to 100 feet, greater than 100 feet, and for non-existent water or water at unknown depths in each Valley. The matrix scores for depth to water appear in Column F on Table 6.

2.1.4.5 Surface Hydrology

Existence of surface water and hydrologic characteristics of stream channels are of importance in evaluating surface hydrologic conditions. In terms of surface water, quality of data symbols representing existing playas (duration, extent, depth, source, and water quality) and existing rivers, streams, and springs (duration, flow rate, water quality) were tabulated. Pertinent hydrologic characteristics of stream channels including depth of incision, width, and gradient as well as channel bottom characteristics and channel spacing data symbols were tabulated. All of the symbols for these categories were considered, as well as the symbols for the preliminary flood susceptibility rating. The results of the tabulations for surface hydrology appear in Column G (Table 6).

2.1.5 FAVORABILITY OF DATA

The same categories considered in quality of data have been tabulated for favorability of data. Data for each were derived from the Volume II Geotechnical Reports, and supplemented by additional area calculations and geotechnical considerations within the suitable Valley areas delineated on derivative worksheets.

2.1.5.1 Ownership and Control

The amount of non-DoD and non-BLM controlled land in each Valley is variable, and large percentages of such land detract from the suitability of the area for siting. A maximum score in this category was assigned to Valleys with 100 percent DoD or BLM ownership or control, with lower rankings being given based on the percentage of non-DoD and non-BLM land. Land ownership data were taken from Volume II Data Summary Sheets and were calculated for the entire Valley area. Since the majority of private ownership is in the suitable areas, these figures are applicable. The ratio of the area of DoD and BLM land to the total suitable siting area was used to derive the matrix score (Table 6, Column H). An example computation using Castle Dome, Arizona is as follows:

$$\frac{126 \text{ nm}^2 \text{ (DoD Land)}}{126 \text{ nm}^2 \text{ (Suitable Area)}} \times 10 = 10$$

2.1.5.2 Geology and Soils Engineering

Ratings in this category (Table 6, Column I) were based on geology and soils engineering data incorporated into the Terrain Analysis and presented in the Volume II Geotechnical Reports. The purpose of these Terrain Analyses was to evaluate various geologic, hydrologic, and soils engineering characteristics of the basin-fill units present in each Valley. The final ratings were ordered qualitatively from very poor (least suitable) to good (most suitable). A very poor rating in the Terrain Analysis indicates a basin-fill unit with an irregular surface (great slope variations and relatively great depths of stream

incision) and unfavorable soils engineering properties (low California Bearing Ratio, non-cohesive soils) such as are found in sand dunes. Playas (favorable slope conditions, unfavorable soils engineering and drainage conditions) and old alluvial fan surfaces (unfavorable slopes, favorable soils engineering and drainage characteristics) received intermediate ratings (poor to fair). Intermediate and young alluvial fans were rated good due to good drainage characteristics, favorable soils conditions, and a lack of significant stream incision. Terrain Analysis ratings were assigned scaling factors according to Table 8.

For purposes of the matrix evaluation, the area of each basinfill unit in the suitable Valley area was measured; these areas
are tabulated in Appendix C. The areas of basin-fill deposits
were then multiplied by the designated terrain analysis scaling
factor and added to yield a scaled area for each Valley
(Appendix C). To derive the matrix score for this ranking factor
(Table 6, Column I), the ratio of scaled area to total area was
used. Low ratios represent a high percentage of unfavorable
basin-fill units, whereas high ratios (high scaled area) represent a predominance of favorable basin-fill material in the area.
These ratios were converted to scores of one to ten by multiplying the ratios by ten and rounding to the nearest integer. An
example of the computation using Castle Dome, Arizona is as follows:



TABLE 8
Terrain Analysis Scaling Factors

Basin-Fill Unit (Map Symbol)	Terrain Analysis Rating*	Terrain Analysis Scaling Factor
Undifferentiated (A_Q)	Fair	0.75
Stream Channel and Flood- plain Deposits (Al)	Poor	0.5
Terrace Deposits (A2)	Fair	0.75
Wind-Blown Deposits (A3)	Very Poor	0.25
Playa Deposits (A4)	Very Poor	0.25
Mantled Playa Deposits (A	4 _m) Poor	0.5
Oldest Alluvial Fan Deposits (A5 _o , A5 _t)	Poor	0.5
Intermediate Alluvial Fan Deposits $(A5_{1}, A5_{Q})$	Fair	0.75
Youngest Alluvial Fan Deposits $(A5_{y}, A5_{Q})$	Good	1.0
Undifferentiated Alluvial Fan Deposits (A5 _u)	Fair	0.75

 $^{^\}star$ See Terrain Analysis Section of Volume II Geotechnical Reports for complete derivation of terrain analysis ratings.

2.1.5.3 Depth to Rock

Depth to rock (or thickness of basin fill) estimates were taken from data included in Volume II Geology Data Summary Sheets and applicable appendices. All pediment and shallow rock areas (rock less than 100 feet deep) were excluded in the delineation of suitable Valley area. It is assumed for purposes of this analysis that a Valley with a large percentage of known shallow rock occurrences (i.e. less than 250 feet) has a relatively shallow depth-to-rock profile. Conversely, relatively great depths to rock near basin margins indicate, in general, thick alluvium or a deep Valley profile. Matrix scores (Table 6, Column J) were computed as one-tenth of the percentage of deep rock. For example, a Valley in which 83 percent was underlain by rock at depths of greater than 250 feet received a score of 8. Scores were cross-checked with available DMA profiles and the generally favorable correlations indicate the validity of the basic assumption.

2.1.5.4 Depth to Water

Valleys were rated on the basis of depth to groundwater in portions of suitable Valley areas remaining after application of the 100-foot depth to groundwater criteria. Known or estimated depths were taken from the Volume II Groundwater Hydrology Data Summary Sheets. Where data did not exist in a particular Valley, regional groundwater conditions were used to extrapolate a probable depth to water. Matrix scores were assigned according to Table 9.

TABLE 9

Depth to Water

General Depth	(feet)	Matri	X	Score
100-200			1	
100-300		2	to	3
100-400		4	to	6
>400		7	to	10

Matrix scores for depth to water ratings appear in Column K on Table 6.

2.1.5.5 Surface Hydrology

Flooding potential is the primary concern related to surface hydrologic conditions that is not accounted for in the terrain analysis. Flooding potential was determined by using the relative percentages of stream channel and floodplain deposits (Al) and playa deposits (A4, A4 $_{\rm m}$) in the suitable Valley area. These basin-fill deposits represent the active parts of the hydrologic system, that is, sediment transport and deposition. The areas of these deposits (Al, A4, A4 $_{\rm m}$) have the greatest likelihood of experiencing flooding in the future. The total area covered by such deposits is shown in Appendix C. Scores equal 10 minus the ratio (x 10) of the area of these flood deposits (Al, A4, A4 $_{\rm m}$) to the total suitable Valley area. Valleys such as Cave or Jakes Valley (Nevada BLM) which do not contain large amounts of suitable area (75 $\,$ and 106 $\,$ nm 2 respectively) and of which half or more is either stream channel or playa deposits received low scores (< 5). Large Valleys lacking playas, such as Ranegras Plain (Arizona DoD), scored high

(9-10) since generally less than ten percent of the suitable area was covered by stream channel and floodplain deposits.

An example computation for Castle Dome, Arizona is as follows:

$$10 - \frac{8 \text{ nm}^2 \text{ (Al deposits) x 10}}{126 \text{ nm}^2 \text{ (suitable area)}} = 9.4 \text{ or } 9$$

Results of the analysis of surface hydrology appear in Column L on Table 6.

POTENTIAL IMPACT ON EXISTING BLM OR DOD ACTIVITIES 2.1.6 This ranking factor analyzes the potential impact of a land based MX system upon existing Valley activities. Two subcategories are considered: 1) present military use (Table 6, Column M), and 2) present non-military use (Table 6, Column N). Military activities are present to some degree in all DoD Valleys and in a limited number of BLM Valleys. Non-military use includes public recreation, wildlife protection areas, grazing land, and private agricultural and residential land. If the MX system can co-exist with present Valley activities with only slight modifications or adjustments, a rating of zero or low has been assigned. Impacts resulting in shifting military activities or in severe effects on the Valley's present use and purpose will result in a moderate to high rating. Table 10 defines impact ratings and shows the assigned score for each.

These scores will only reflect environmental conditions as they relate to established, officially designated land areas. The matrix analysis does not specifically address environmental factors since all such impacts to siting of an MX system in a Valley are not available. This analysis is concerned only with

TABLE 10

Potential Impact

Military

Non-Military

High (1 to 3) - Relocation of permanent testing facilities would be required. Decontamination of extensive areas required prior to field investigation and construction. Conditions present in greater than 75 percent of Valley.

High (1 to 3) - Area with conflicting public land use. These conditions present in greater than 75 percent of Valley.

Moderate (4 to 6) - MX system could co-exist with present activities. Decontamination restricted to target areas. Activities in 25 to 75 percent of Valley.

Moderate (4 to 6) - High shortterm impact, but MX system could co-exist. Affects 25 to 75 percent of Valley.

Low (7 to 9) - Decontamination or moving present activities required in less than 25 percent of Valley. Low level of military activity.

Low (7 to 9) - Less than 25 percent of Valley affected by conflicting land use. Includes leased land.

None (10) - No military activity. Includes most BLM land.

None (10) - No impact presently known.

considerations for siting an MX system in a Valley and the gross or immediate impacts.

In the Matrix Analysis excluding Wildlife Ranges (Appendix E), the potential impact scores were re-evaluated. Although this alone tended to raise scores, the effect of the loss of suitable area with a higher weighting factor, over-shadowed potential impact, thereby resulting in a lower Final Score for Valleys which include Wildlife Ranges.

2.1.7 DISTANCE FROM CIVILIAN OR MILITARY SUPPORT FACILITIES

Facilities to support activities during investigation, construction, and operation of the MX system will be required and sites with such facilities both accessible and nearby will be more favorable than sites that are isolated and accessible only with difficulty. For this matrix score, existing civilian and military population centers were rated according to their support potential. A rating of one was assigned to facilities capable of lending support during field investigations. These facilities must contain at least one motel, one restaurant, and one service station. A rating of two was given to facilities capable of lending support during investigation, construction, and operation of the system. Such facilities must contain some construction-related businesses (sand and gravel operations, heavy equipment, ready-mix or concrete contractors, etc.) as well as support for personnel. The ratings of the various existing support facilities (Table 11) were derived from direct field experience of Fugro National personnel.

The distance factor was applied according to Table 12. All distances are straight-line measurements from support facilities to the approximate geographical center of the siting Valley. To determine the score in Column O (Table 6), distance factors were multiplied by the support facility rating factor, yielding values from one to ten for each Valley for each support facility as shown in the following example for Castle Dome, Arizona.

2 (facility rating) x 5 (distance factor) = 10

The highest value was chosen and entered in the matrix ranking. The uniformly high values for New Mexico and Arizona reflect the relative abundance of support facilities and the small area covered by siting Valleys. Remote Valleys and the lack of population centers generally makes this factor lower in Nevada, where ratings of six or below indicate very remote locations.

TABLE 11
Support Facility Ratings

Support rac	iiity katings
Arizona	New Mexico
Parker (1)	Socorro (2)
Aguila (1)	Mountainaire (1)
Tacna-Wellton (1)	Carrizozo (1)
Yuma (2)	Las Cruces (2)
Ajo (2)	Alamogordo-
Gila Bend (1)	Holloman AFB (1)
Blythe, Ca. (2)	El Paso-Ft. Bliss (2)
Neva	da
	Austin (1)
	Eureka (1)
	Tonopah (2)
	Mercury- Indian Springs (2)
	Ely (2)
	Caliente (1)
	Beatty (2)
	Goldfield (1)
	Las Vegas (2)

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TABLE 12
Distance to Support Facility Factors

Distar	nce	
(nautical	miles)	Factor
0 -	25	5
25 -	50	4
50 -	75	3
75 -	100	2
>	100	1

2.1.8 RESULTS OF MATRIX ANALYSIS

It can readily be seen from the final scores (Table 4, Column T) that no Valley is completely favorable from all aspects.

Weighting factors were selected to yield a total possible final score of 100, but the highest score attained was 79.5 (Mohawk-Tule Valley, No. 9). Sixty-three percent of final ranking scores clustered within ten points either side of the 50 percent mark, with an equal number of ranking scores above and below 50 percent (Table 13).

TABLE 13

Distribution of Final Scores (T)

S	Final cores (T)	Number of Valleys	DoD/ BLM	Percentage of Valleys
	< 30	2	1/1	3
	30-40	6	4/2	9
<50%	40-50	26	19/7	38
>50%	50-60	17	5/12	25
	60-70	14	4/10	21
	>70	3	2/3	4

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The high degree of correlation between areal ranking scores (Table 6, Column P) and final scores (Column T) reflects the choice of weighting factors. High final scores generally reflect large amounts of suitable Valley area and suitable contiguous Valley area. Of the top twenty Valleys based on final score, 18 correlate directly with the highest areal ranking. Other ranking factors included in the matrix analysis became important in differentiating Valleys of roughly equivalent suitable Valley area and suitable contiguous area. Collectively, the Valleys of the Gila Bend Group (Arizona BLM) generally rank highest with more than 80 percent of the Valleys ranking above 50 percent (Table 9). The Nellis Group Valleys (Nevada BLM) also rank high with nearly 70 percent above 50 percent. Final scores for DoD Valleys in Arizona, Nevada, and New Mexico fall at or below 50 percent due to the relatively small amounts of suitable area.

Rankings in Table 6 do not reflect exclusions of existing wild-life ranges and proposed wilderness areas in Arizona (Cabeza Prieta) and Nevada (Desert National Wildlife Range and Wild Horse Range). If such areas are excluded, the Valley ranking changes significantly (Appendix E). Although nearly the same Valleys remained in the top twenty and distribution relative to 50 percent remained roughly the same, Arizona DoD Valleys moved down considerably in the ranking due to removal of the Cabeza Prieta. Suitable Valley area (Column A) and suitable contiguous areas (Column B) in Valleys peripheral to the wild-life ranges change, and conditions of ownership and control

TABLE 14

Distribution of Final Scores (T) in Each Siting Region

		Nu	imber (%)	of Valley	's	
Final	Ariz	ona	Nev	ada	New Me	xico
Score (T)	DoD	BLM	DoD	BLM	DoD	BLM
<30	1(7)	1(18)	0	0	0	С
30-40	0	0	2(17)	2(7)	1(16)	1(100)
40-50	6 (43)	0	9 (75)	7 (26)	4 (67)	0
< 50%		ميد اللحد المدانية والمجالات فروب	magnitive till to the coldina of the	والمعارض والمراض والمراض والماس والماس		-
>50%						
50-60	4 (29)	4 (50)	1(8)	8 (30)	0	0
60-70	1(/)	2 (25)	0	10 (37)	1(17)	0
>70	2(14)	1(13)	0	0	0	Ú
Total	14(100)	8(100)	12(100)	27 (100)	6(100)	1(100)

(Column H) and potential impact (Column N) generally become more favorable in Valleys whose suitable area was reduced by exclusion of wildlife ranges. There is little or no effect in the remaining ranking factors and therefore no changes in these matrix scores were made.

Four additional iterations of the matrix analysis were run for the BLM Valleys and DoD Valleys as separate groups. The four iterations include (Appendix F and G):

- DoD Valleys (including Wildlife Areas)
- 2) DoD Valleys (excluding Wildlife Areas)
- 3) BLM Valleys (including Wildlife Areas)
- 4) BLM Valleys (excluding Wildlife Areas).

The only major change represented by these iterations is the exclusion of suitable BLM land contiguous to suitable DoD land

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and vice versa. The purpose is to consider BLM and DoD land separately and rank valleys only in relation to other BLM and DoD lands respectively. In nearly all cases elimination of contiguous suitable areas not controlled by the particular agency (DoD or BLM) did not significantly change the ranking. Only Cactus Flat (24), Emigrant (25), and Kawich (29) Valleys lost significant amounts of suitable contiguous area and dropped in the ranking. Thus, ranking scores in Appendices F and G do not differ greatly from those on other matrix and ranking iterations. These were run principally as a useful aid in visualizing the relative rankings in the event that either BLM or DoD land in any particular siting area became less desirable or became excluded at some point.

Additional columns were added to the tables of rankings (Appendix D, E, F, and G) to indicate suitable Valley area (Column U), suitable area excluding wildlife or wilderness areas (Column V) and numerical rank (Column W). These columns were provided to facilitate visualization and tabulation of total suitable Valley areas based on various composite groupings of Valleys and inclusion or omission of wildlife areas.

2.2 REGIONAL ANALYSIS

2.2.1 GENERAL

Several factors of importance to the siting, construction and maintenance of an MX system were not directly considered in the matrix analysis due to their regional significance and limited applicability to a Valley-by-Valley analysis. These geotechnical factors are mode and occurrence of calibrate, distribution of sand dunes and playas, grain size distribution of the basin fill, relative levels of seismicity, and potential for surface rupture and related phenomena associated with faulting. These items are discussed here since they could not be readily incorporated into the matrix because of the general lack of Valley specific information or because the unpredictable nature of occurrence of these factors in the suitable areas did not allow Valley comparative analyses.

Environmental considerations are only superficially addressed in the matrix analysis since the data base for applicable environmental factors is insufficient at this time to allow for reasonable Valley analyses. Regional environmental considerations such as inclusions of Valleys into wilderness and other environmentally sensitive areas are addressed in Appendices E, F, and G, principally as reduced suitable area. Further discussions of the potential or probability for withdrawal of lands to wilderness or other protective stature are discussed in Section 2.2.6.

2.2.2 CALICHE, SAND DUNES, AND PLAYAS

Caliche is a cementing agent generally occurring near the surface in basin-fill deposits. The presence of caliche cannot be predicted with a high degree of confidence since it is a subsurface phenomena and can be directly observed only in drill holes, open excavations, stream cuts, or stripped areas where upper soil layers have been removed. Factors affecting the degree of caliche cementation and limit and extent of its occurrence in each basin-fill unit include: 1) the composition of rock types in the source crea; 2) land surface morphology and runoff characteristics; and 3) a variety of environmental factors including temperature variations, amounts and intensity of rainfall, and wind.

A Valley-by-Valley comparison relating occurrence and degree of caliche cementation could not be accomplished at this time because of the geat number of variables that exist for predicting caliche occurrence and because of the relatively small data base noting specific examples. However, since caliche is an important consideration for both construction and nuclear weapons effects of a deployed M2. system, some general statements can be made regarding caliche occurrence in all suitable siting areas.

These are:

1. Caliche is present in diffuse or massive forms, or both, in all but the most geologically recent basinfill deposits. It is most likely to be well-developed in the older (A5o) and intermediate (A5i) alluvial fan deposits, and stream terrace (A2) deposits. It will be less prominent in the younger alluvial fans and bajadas (A5y). Caliche is not expected to be significant in recent deposits of stream channels (A1), sand dunes (A3), lake terraces (A2), or playas (A4).

deposits in the suitable Valley areas that are immediately adjacent to the mountain front or near large rock outcroppings. It should be noted that the 100-foot depth to rock exclusion criteria eliminated many of the basin-fill deposits having the highest likelihood of caliche occurence (i.e., pediment deposits-A6; older alluvial fans-A50) and probably significantly decreased areas in the subsurface having a high likelihood of deeply buried older calichified basin fill (i.e., fanglomerates).

Valleys in the eastern portion of LBGR, all Valleys in the Gila Bend Group, and Valleys in WSMR have a higher likelihood for occurrence of well-developed caliche than Valleys in the remaining siting areas. This does not indicate a lack of caliche in these other areas, but rather indicates that the caliche present is probably less well-developed.

The presence of large areas covered by playas or sand dunes was considered in the matrix analysis under favorability of geologic conditions but was not considered an exclusion to siting. However, since this category was assigned a small weighting factor (1.0) in the matrix analysis, and since it is possible that

these less favorable conditions could not be given appropriate consideration, the presence of playas or sand dunes merit further discussion.

Playas are common in the suitable Valley areas of NBGR and WSMR and are particularly significant in many Nellis Group Valleys (Drawings 1 and 3). Playas are small and rare in YPG/LBGR, Gila Bend Group Valleys and the White Sands Missile Range Extension area (Drawings 1 and 2). Table 15 lists the total amount of suitable Valley area and percent of the total suitable area that is covered by playa and sand deposits in each of the six siting areas. These data show that the total suitable area in general decreases only slightly in most siting areas if playas are considered unsuitable siting area. However, as much as a 15 percent decrease occurs in the NBGR siting area. The impact on a relative Valley ranking could be significant, particularly with regard to Stonewall Flat and Jakes Valley where playas compose greater than 25 percent of the total suitable Valley area. Sand dune areas have less total impact (Table 15). If sand dunes are to be considered unsuitable areas at some future time, three Valleys could be significantly affected. Tularosa Basin South (New Mexico DoD) and Mohawk-Tule Valley (Arizona DoD) each have more than 30 nm² of sand dunes and nearly 65 percent of Cactus Plain (Arizona DoD) is covered by sand dunes.

2.2.3 GRAIN-SIZE DISTRIBUTION

Grain size distribution of the basin fill is only indirectly considered in the matrix analysis. Significant accumulations of very coarse- or very fine-grained basin fill could affect

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Table 15

Percent of Sand Dune and Playa Deposits

		Area Cov	Area Covered By (nm ²)	% Area	% Area Covered By
Siting Area	Suitable Area (nm^2)	Playa	Sand Dunes	Playa	Playa Sand Dunes
YPG/LBGR	2132	1	176	0	ω
Gila Bend Group	1801	0	40	0	2
NBGR	1218	186	2	15	0
Nellis Group	4074	215	40	ហ	ı
WSMR/FBMR	899	17	38	м	9
WSMR Extension	112	0	ω	0	7



construction and the hardness of the deployed system. accurate ratios of coarse- to fine-grained units could not be calculated for the basin fill in individual Valleys, only general statements can be made. Grain sizes of basin-fill deposits within the suitable portions of the Valleys will be highly variable depending upon a multitude of geologic, geomorphic, topographic and climatic conditions in individual Valleys. In most instances, the larger grain sizes occur near the mountain front as part of talus accumulations or the apex portions of alluvial fans. These deposits have been excluded or significantly decreased in the suitable Valley area by the 100-foot depth to rock contour. This contour was plotted approximately 1000 to 2500 feet basinward of the mountain front or rock/pediment occurrences. Large accumulations of fine-grained deposits are not common in the Arizona siting region but are quite numerous in the Nevada and New Mexico siting region due to the presence of significant playa deposits.

2.2.4 SURFACE FAULTING

Capable or potentially capable faults are those which may cause ground rupture and surface displacement. Although capable or potentially capable faults were not identified as excluding criteria for determining suitable area, they could become important when considering the vulnerability of a deployed system. Displacements of a few to tens of feet can occur along a capable fault. In addition, movement of small to large blocks in the vicinity of the fault can also occur,



causing differential movement, cracking and slumping of the ground surface jeopardizing the stability and the hardness of structures built upon or across such features. Numerous such faults occur within the Nellis Group siting area and NBGR. Fewer faults are present in YPG/LBGR and WSMR/FBMR and no significant occurences are known in the Gila Bend Group or White Sands Extension study area.

2.2.5 SEISMICITY

Seismicity and ground shaking are of lesser importance since the design specifications of the system more than likely will compensate for projected levels of seismicity. All siting areas lie close to potential sources of earthquakes. Low levels of seismicity (infrequent occurrences of earthquakes greater than M = 4.0 on the Richter Scale) characterize WSMR/FBMR, eastern LBGR, eastern NBGR, all of the Gila Bend Group and southern and eastern parts of the Nellis Group. Moderate to high levels of seismicity prevail in western YPG/LBGR, central NBGR, and central and northern portions of the Nellis Group. No significant zones of seismicity affect the White Sands Extension area.

2.2.6 PROPOSED WILDERNESS AREAS AND OTHER ENVIRONMENTALLY SENSITIVE AREAS

Both the Cabeza Prieta Game Range, Arizona, and the Desert National Wildlife area, Nevada, have had Final Environmental Statements submitted evaluating these areas for wilderness withdrawal. An extension of 79,000 acres to the Cabeza Prieta to the west is presently under consideration. If approved,

this extension would also be included in the proposed Cabeza Prieta Wilderness area. Since these areas may contain minerals vital to the national interest, the President of the United States deferred action (as of June 1974) on granting wilderness status to these areas until an adequate mineral survey has been completed. If the Cabeza Prieta and Desert National Wildlife area are approved for incorporation into the National Wilderness Preservation System, it is likely that a joint-use status with an MX land mobile system would be difficult and probably impossible. An area that is environmentally sensitive, but which is not a proposed inclusion into the National Wilderness Preservation system is the Nevada Wild Horse Range. It is presently entirely within the NBGR on public land under Air Force control. The wild horses are protected by the Free-Roaming Horse and Burro Act f 1971, and probably could not co-exist with the MX system, particularly during construction phases. It is for these reasons that dual rankings (including and excluding areas within these proposed wilderness and environmentally sensitive areas) were performed in the matrix analysis. However, as of the date of this report, the Cabeza Prieta, Nevada Wild Horse Range, and the Desert National Wildlife Refuge are not recognized exclusions. Valleys potentailly affected by these areas and total suitable area are shown in Table 15.



TABLE 16

Vallevs Potentially Affected by Proposed Wilderness and Environmentally Sensitive Areas

Environmentally Sensitive Area	Affected Valley	Suitable Area (nm ²)	Suitable Area $(n\pi^2)$ Excluding Sensitive Areas
Cabeza Prieta* (Arizona)	 Growler/Childs (DoD) Iechuguila (DoD) Mohawk/Tule (DoD) San Cristobal (DoD) 	413 172 521 275	220 140 271 230
Desert National Wildlife Area (Nevada)	25. Emigrant (DoD) 26. Frenchman Flat (DoD) 33. Tikaboo (DoD) 40. Coyote Spring/ Kane Spring (BLM) 45. Indian Spring (BLM) 59. Three Lakes (BLM) 60. Tikaboo (BLM)	191 62 70 276 52 19	135 35 29 209 11 0
N evada W ild Horse R a nge	24. Cactus Flat (DoD) 27. Gold Flat (DoD) 29. Kawich (DoD)	201 108 113	188 132 0

^{*} The proposed extension would also affect a small portion of Yuma Desert (Valley No. 14).



3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 CONCLUSIONS

Over 70 percent of all Arizona BLM, Arizona DoD, and Nevada BLM Valleys have final scores in the upper 50 percent of all Valleys (Matrix Analysis, Table 6). Nevada DoD and New Mexico BLM and DoD Valley Final Scores are predominantly in the lower 50 percent.

Seventy-four percent (7423 nm²) of all suitable Valley area is in the upper 50 percent; of this total, 30 percent (2248 nm²) is DoD land, most of which 76 percent (1715 nm²) is in Arizona. Eighty-eight percent of this Arizona DoD land is present in LBGR.

If the proposed areas within the Cabeza Prieta and Desert National Wildlife Ranges are incorporated into the Wilderness Preservation system (Section 2.2.6, Table 12), then 29 percent (520 nm²) of the suitable area in LBGR, five percent (212 nm²) in the Nellis Group, and ten percent (124 nm²) of the NBGR would be affected. Although the Nevada Wild Horse Range (Nevada DoD) is not eligible for wilderness status, the area has been informally designated as a protected range for the wild horses. This protective status could be incompatible with MX deployment schemes. Exclusion of the Wild Horse Range would result in a further 13 percent reduction (162 nm²) of suitable area in NBGR.

Exclusion of Wildlife Ranges does not affect the Final Score ranking of any BLM Valleys (Appendix G). It does, however,

affect the ranking of individual DoD Valleys (Appendix F). How- ever, none of the final scores change sufficiently to move a Valley from the upper 50 percent to the lower 50 percent.

When DoD Lands (Appendix F) and BLM Lands (Appendix G) are ranked separately, additional conclusions can be drawn.

Arizona DoD Valleys within LBGR score highest in the ranking, with Final Scores in the upper 50 percent for all Valleys in the group. YPG and NBGR rank about evenly with scores ranging from the upper 25 percent to the lower 25 percent.

In the BLM rankings the Arizona BLM Valleys generally score higher than the Nevada BLM Valleys, with all Arizona Valleys except La Posa Plain (18) and Cactus Plain (16) ranking in the upper 50 percent on the Firal Score rankings. Eleven Nevada Valley Final Scores fall in the upper 50 percent, 16 fall in the lower 50 percent.

Playa areas (see Drawings 1, 2, and 3) have not been excluded from the suitable area totals in this report. Suitable areas containing playas have, however, received lower scores because of the presence of playas. If playa or sand areas are excluded from consideration, suitable areas will be reduced accordingly.

Additional iterations of the Matrix Analysis using different sets of weighting factors have been produced, but are not included with this report. When weighting factors are changed, the rankings are, of course, changed accordingly. For example,

to place more emphasis on ownership in BLM areas, the weighting factor for Column H was increased from 1.0 to 3.0 and the weighting factors for Columns A and B were each reduced by 1.0. Using these weighting factors, the BLM Valleys in Arizona were effected the most with Harquahala Plain (17) dropping in numerical rank (w) from 6th to 40th, McMullen (19) dropping from 18th to 50th, Palomas/Hyder (21) from 9th to 25th and Ranegras Plain (22) from 3rd to 18th. BLM Valleys in Nevada were also effected, but not to this degree. Tikaboo Valley (60) dropped from 31st to 51st, Monitor (49) from 34th to 47th, Emigrant (25) from 35th to 51st, and Coyote Spring/Kane Spring (40) from 41st to 59th. Other Arizona and Nevada BLM Valleys had drops of smaller magnitude, while some had a slight increase in rank.

In general, the DoD Valleys rose in numerical rank, although Valleys such as Cactus Flat (24) and Yucca Flat (34) dropped significantly in numerical rank, due to conflicting non-BLM, non-DoD federal control of Valleys within NBGR.

3.2 RECOMMENDATIONS

The New Mexico siting region has less total suitable area (780 nm^2) than necessary for deployment of one wing (1500 nm^2) , assumed). For this reason, it should be eliminated from present consideration as a viable siting area (region).

Suitable Valley areas presently included within the Cabeza Prieta Game Refuge, Desert National Wildlife Range and Nevada Wild Horse Range should be eliminated from present considerations for siting. The boundaries of these Wildlife Ranges are shown on Figure 3.

Valleys with considerable playa and sand dune deposits should be considered low priority suitable area and should be incorporated only if additional area is needed. Playa areas are indicated on Drawings 1, 2, and 3.

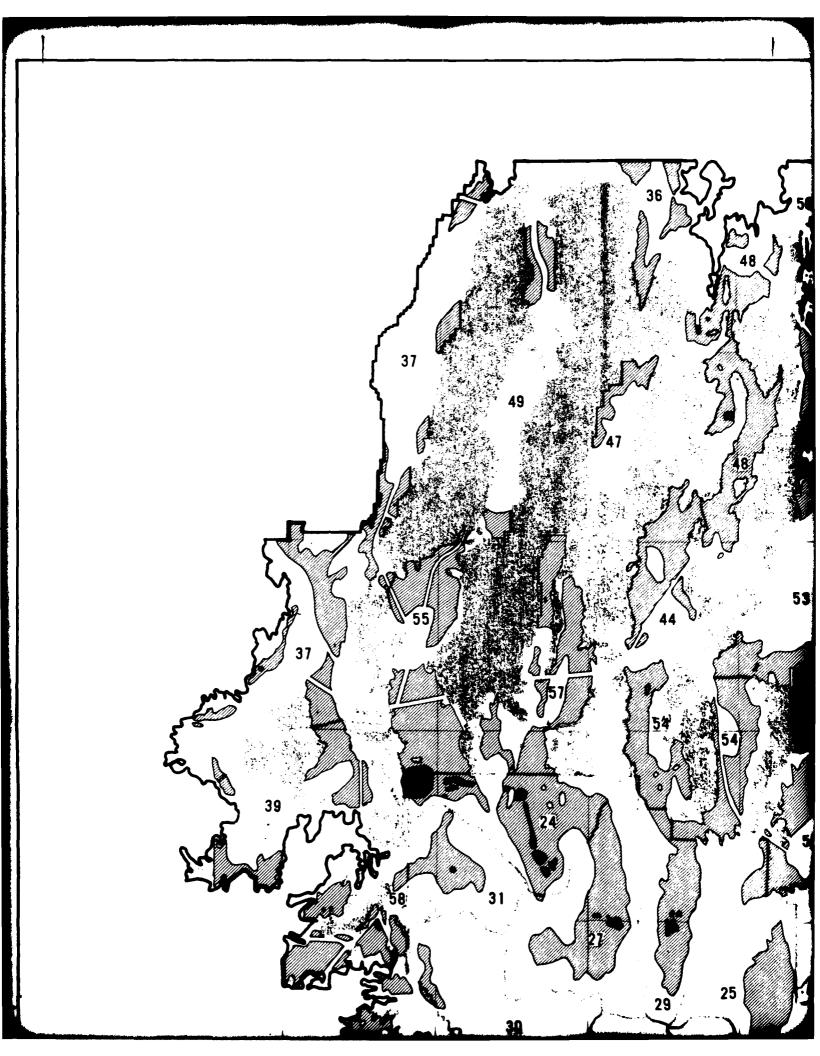
The Arizona and Nevada siting regions are recommended for Phase 1 and 2 studies. Table 17 summarizes the areas considering DoD Lands only, BLM Land only, and combined DoD/BLM Lands.

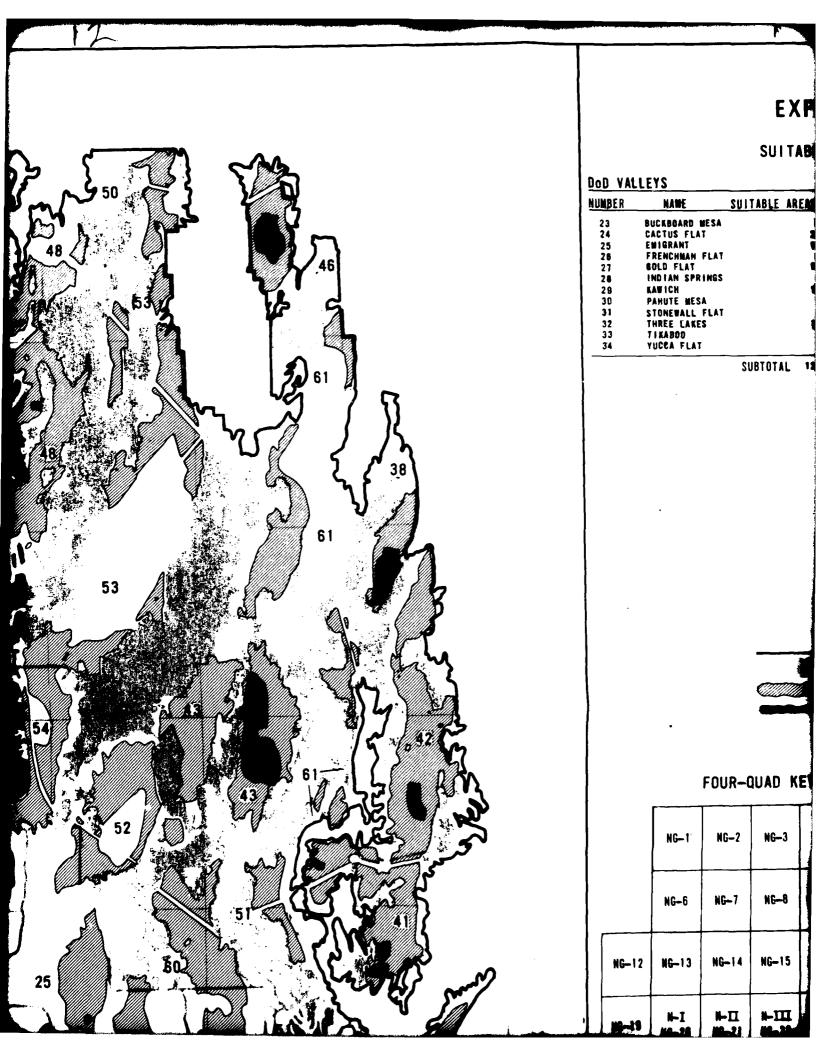
TABLE 17

Preferred Ranking of Siting Areas
for Phase 1 and 2 Geotechnical Studies

DoD Only	BLM Only	Combined DoD/BLM
LBGR (1)	Nellis Group (1)	Gila Bend Group and YPG (2)
NBGR (2)	Gila Bend Group (2)	Nellis Group and NBGR (3)

Individual core Valleys within each of these rankings should be selected with additional land added to make up the area for the necessary deployment scheme. Valleys which score in the upper ten percent are considered to be prime candidates for core Valleys.





EXPLANATION

SUITABLE SITING AREA

LUMBER	NAME	SUITABLE AL	REA dom 2
23	BUCKBOARD MESA		54
24	CACTUS FLAT		20 %
25	EMIGRANT		191
28	FRENCHMAN FLAT		62
27	BOLD FLAT		168
28	INDIAN SPRINGS		87
29	KAW ICH		113
30	PANUTE MESA		10
31	STONEWALL FLAT		56
32	THREE CAKES		117
33	TIKABOO		70
34	YUCCA FLAT	_	89
		SUBTOTAL	1218

BLM VALLEYS

NUMBER	NAME SUITABLE AF	REA (ma²)
35	AMARGOSA DESERT	137
36	ANTELOPE	55
37	BIS SMOKY	248
3.6	CAVE	75
39	CLAYTON-ALKALI SPRING	89
40	COYOTE SPRING-KANE SPRING	197
4Í	DELAMAR-PAHROC	176
42	DRY LAKE-MULESHOE	288
43	GARDEN-COAL	328
44	HOT CREEK	138
45	INDIAN SPRING	52
46	JARES	100
47	LITTLE FISH LAKE	24
48	LITTLE SMOKY	310
49	MONITOR	50
50	NEWARK	50
51	PAHRANAGAT	73
52	PENOYEŘ	157
53	RAILROAD	243
54	RAILROAD-REVEILLE	247
55	RALSTON	238
58	SARCOBATUS FLAT	70
57	STONE CABIN	171
58	STONEWALL FLAT	105
59	THREE LAKES	19
60	TIKABOC	229
61	WHITE RIVER	203
	SUBTOTAL	5282

SUBTOTAL 5292

TOTAL 8510

SYMBOLS



Boundary of Siting Region.

Boundary of Valley.

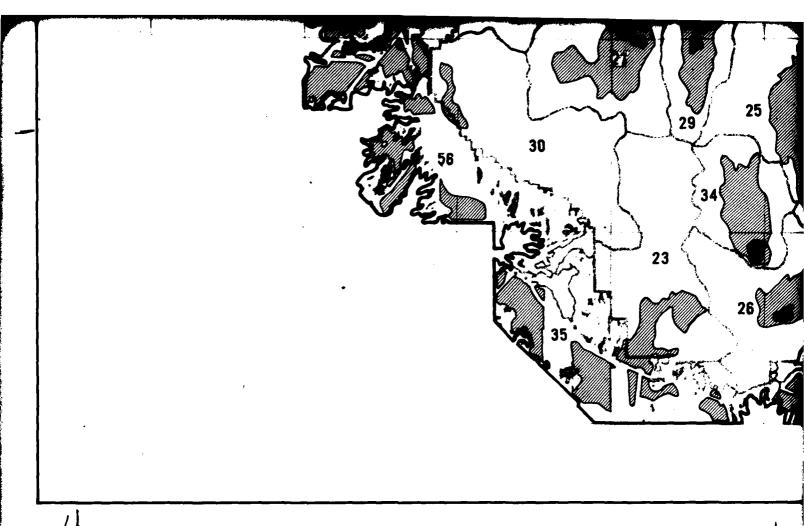
Suitable Valley Area.

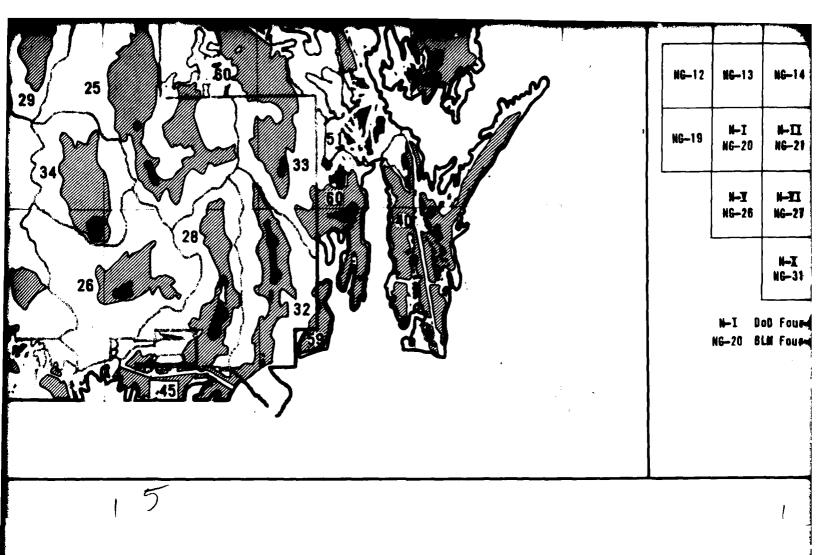
Limit of Playa.

FOUR-QUAD KEY MAP

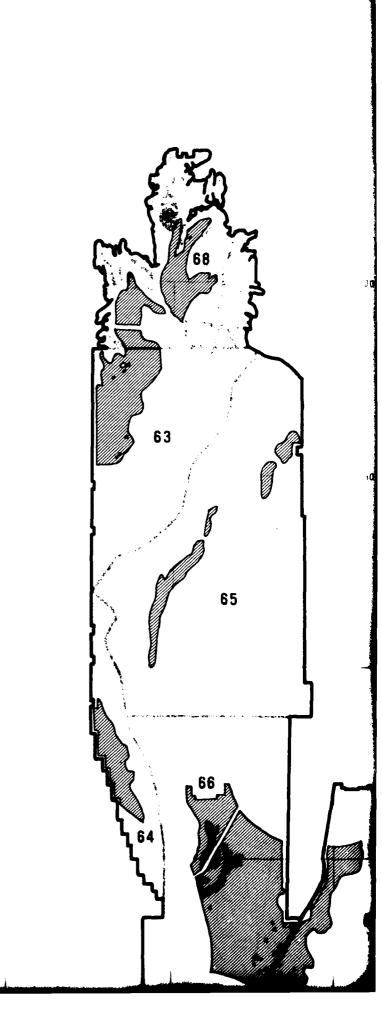
l		4.2	MART	AU	11-4		
	NG-12	HG -13	NG-14	NG-15	NG- 18	NG-17	NG-18
		NG-6	NG-7	NG-8	NG-9	NG-10	NG11
		NG-1	NG-2	NG-3	NG-4	NG-5	

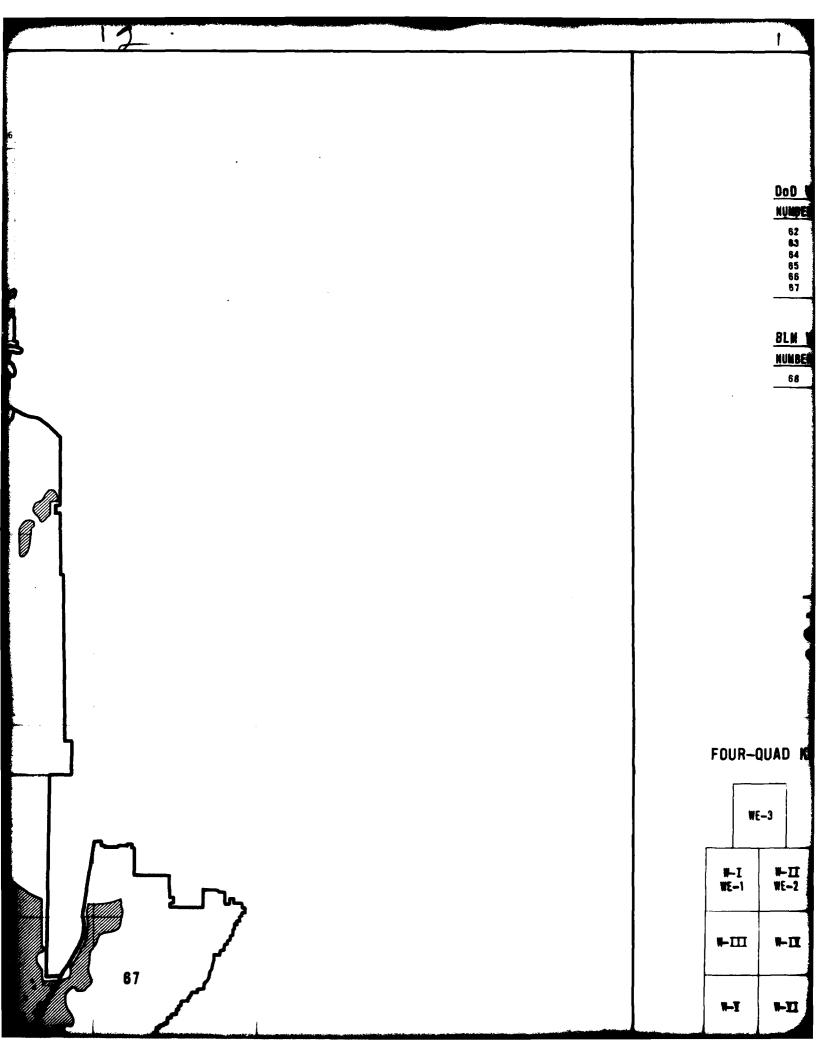






NG-12	NG-13	NG-14	NG-15	¥6-11	6 NG-17	NG-18	0 10	
NG-19	N-I NG-20	N-II NG-21	N-III NG-22	N-11 NG-2		NG25	NAUTICAL MIS O 10 20 KILOMETERS	30
	N-Y NG-26	N- <u>YI</u> NG-27	N- II I	N-YI		NG-30	NEVADA	
		N-X NG-31	N-XI NG-32	N-XI		NG-35	· Rene	
	N-I D NG-20 B	oD Four-	inaq Buat dnaq Buat	phics (VARY "DR	AFT
						NEVADA	SITING REGION	
							VESTIGATION AIR FORCE - SAMSO	DRAWING
				-	fug	20 14	ATIONAL	IMC.





EXPLANATION

SUITABLE SITING AREA

DOD VALLEYS

NUMBER	NAME SULTA	BLE AREA (nm2)
62	HUECO BOLSON	7
63	JORMADA DEL MUERTO NORTH	124
64	JORNADA DEL MUERTO SOUTH	47
85	TULAROSA BASIN HORTH	54
86	TULAROSA BASIN SOUTH	54 332
67	TULAROSA BASIN EAST	100
	SUBTOTAL	868

BLM VALLEYS

NUMBER		N	AME	SUITAB	LE AREA (nm²)
68	JORNADA	DEL	MUERTO		112	
			su	BTOTAL	112	
			_	TOTAL	780	

SYMBOLS

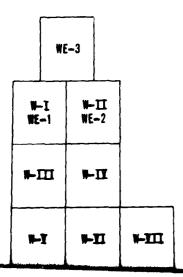
Boundary of Siting Region.

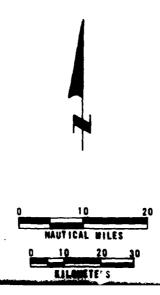
Boundary of Valley

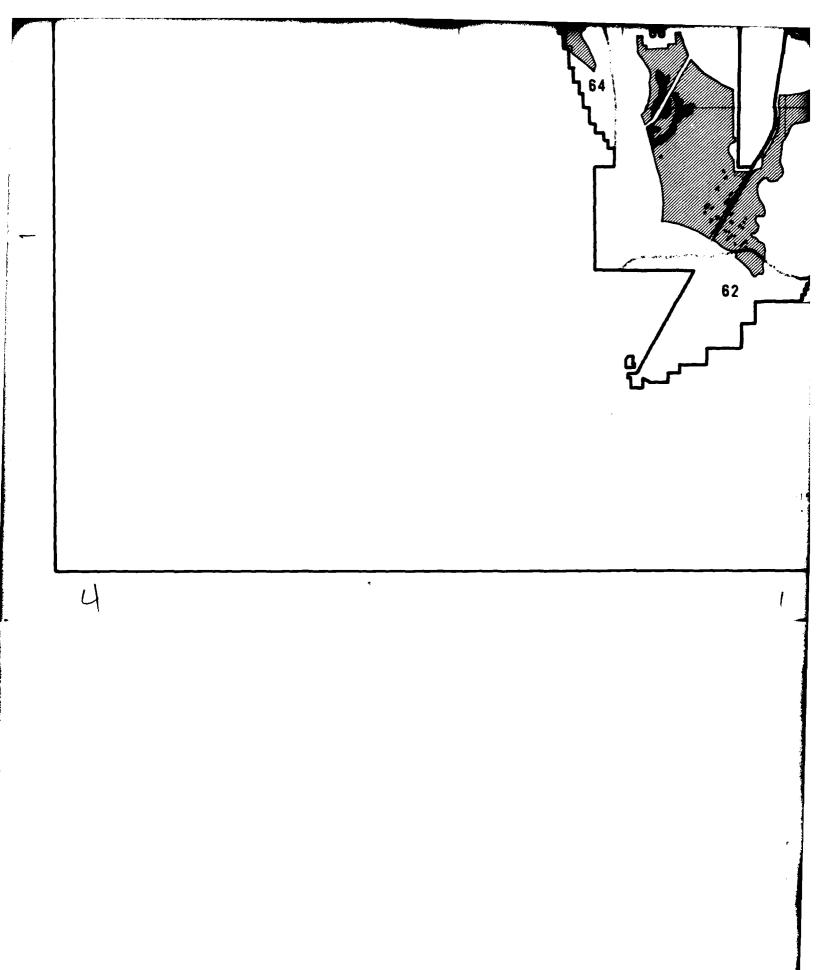
Suitable Valley Area.

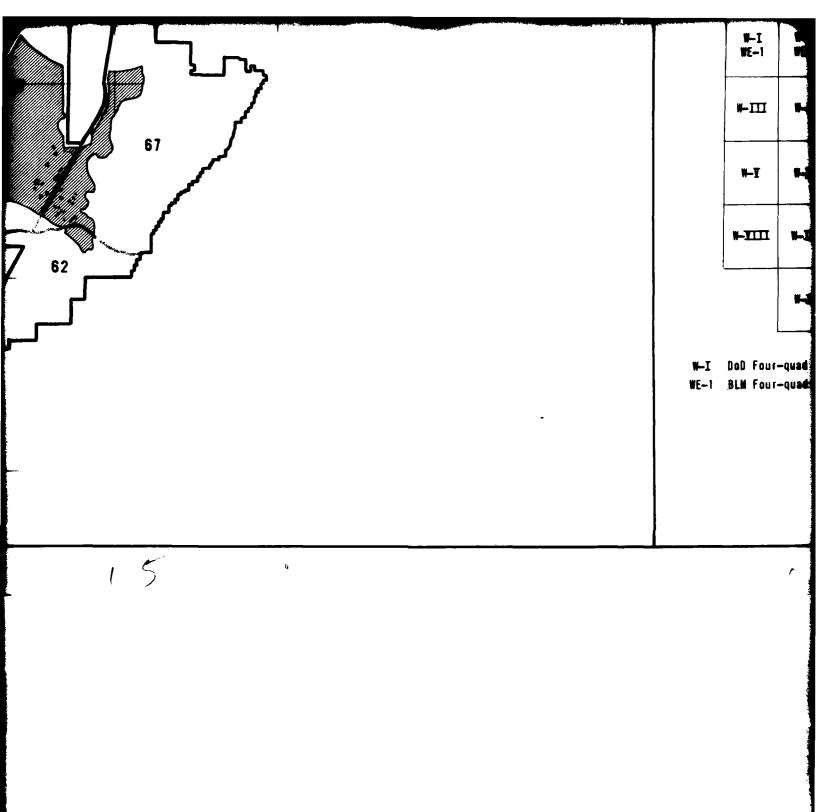
Limit of Playa.

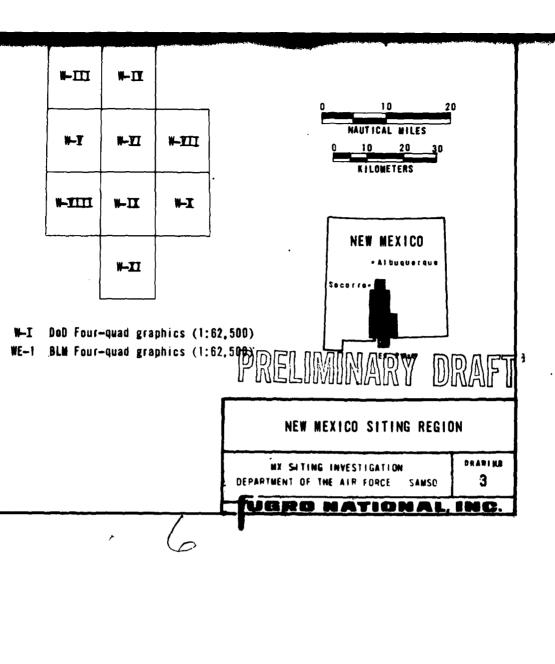
FOUR-QUAD KEY MAP











APPENDIX A
LIST OF REPORTS

Fugro National, Inc., 1975a, Siting evaluation report: Cons. report for SAMSO, v. I, 55 p., appendices. , 1975b, Geotechnical report, White Sands Missile Range/Fort Bliss Military Reservation: Cons. report for SAMSO, v. IIA, 113 p., data summary sheets, appendices and graphics volume. , 1975c, Geotechnical report, Yuma Proving Grounds/ Luke-Williams Bombing and Gunnery Range: Cons. report for SAMSO, v. IIB, 122 p., data summary sheets, appendices and graphics volume. , 1975d, Geotechnical report, Nellis Bombing and Gunnery Range: Cons. report for SAMSO, v. IIC, 125 p., data summary sheets, appendices and graphics volume. , 1975e, Recommended geotechnical field investigation: Cons. report for SAMSO, v. III, 45 p. . 1975f, Environmental assessment report: qeotechnical field investigation: Cons. report for SAMSO, v. IV, 165 p., appendices. , 1975g, Water rights and resources: Cons. report for SAMSO, 104 p., appendices. , 1975h, Comparative environmental assessment of the three MX land mobile missile system concepts: Cons. report for SAMSO, 179 p., appendix. 1976a, Siting evaluation report: Cons. report for SAMSO, 63 p., appendix. , 1976b, Geotechnical report, White Sands Missile Range Extension: Cons. report for SAMSO, v. IIA, 88 p., data summary sheets, appendices and graphics volume. , 1976c, Geotechnical report, Gila Bend Group: Cons. report for SAMSO, v. IIB, 120 p., data summary sheets, appendices and graphics volume. , 1976d, Geotechnical report, Nellis Group: Cons. report for SAMSO, v. IIC, 142 p., data summary sheets, appendices and graphics volume.

, 1976e, REcommended geotechnical field investigations: Cons. report for SAMSO, v. III, 79 p., appendix.

APPENDIX B
SUITABLE AREA AND SUITABLE CONTIGUOUS AREA

	VALLEY NUMBER	VALLEY AREA (nm²)	SUITABLE AREA (nm²)	% REDUCTION
	î	327	126	61
	2	321	92	71
	3	603	413	32
A R	4	324	42	87
A R I Z O N A	5	184	106	42
Ň	6	61	32	48
	7	330	172	48
	8	113	21	84
	9	853	521	39
	10	67	30	55
	11	353	275	22
0	12	385	208	46
0	13	71	0	100
	14	314	94	70
	SUBTOTAL	4326	2132	51
	15	365	230	37
A	16	237	131	45
A R I Z O N A	17	542	352	35
O N	18	349	236	32
^	19	317	201	37
	20	71	0	100
B	21	525	295	44
M	22	494	356	28
	SUBTOTAL	2900	1801	38
	TOTAL	7226	3933	46

SUITABLE AREA ARIZONA

MX SITING INVESTIGATION

APPENDIX B-1

DEPARTMENT OF THE AIR FORCE SAMSO

TUBRO NATIONAL

•		VALLEY		
	VALLEY	VALLEY AREA (nm²)	SUITABLE AREA (nm²)	% REDUCTION
	35	424	137	
	36	201	55	73
	37	1023	246	9/
	38	129	75	
:	38	357	88	7.5
24	40	276	197	29
·~·	7.1	172	176	35
<<	42	475	289	39
· 	43	455	326	28
	44	-	138	20
	45	102	52	49
	46	214	106	20
	47	120	24	90
	48	561	310	45
	49	288	50	83
	50	184	50	73
∞_	51	185	73	91
Æ	52	271	157	42
	53	883	243	72
	54	418	247	4
	52	384	238	38
	56	339	7.0	79
	57	381	171	55
	58	246	105	57
	58	21	61	10
	09	345	229	34
	19	752	203	73
	SUBTOTAL	9569	4074	57
	TOTAL	13,998	5292	62

	VALLEY	VALLEY AREA (nm ²)	SU!TABLE AREA (nm²)	% REDUCTION
	23	476	54	88
Z 1	24	371	201	46
 >	25	646	161	7.0
-	26	399	62	84
_	77	526	168	89
ς .	28	172	87	68
	29	232	113	51
_	30	499	0.1	886
00	31	252	56	78
>	32	336	117	65
	33	189	70	63
	34	232	88	62
	SUBTOTAL	4429	1218	72
Į				

SUITABLE AREA NEVADA

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

B-2

UGRO NATIONAL, INC.

	VALLEY NUMBER	VALLEY AREA (nm²)	SUITABLE AREA (nm²)	% REDUCTION
Ň	62	326	7	98
N E W	63	505	124	75
1	64	180	47	74
Ę	65	1340	58	96
ĵ	66	998	332	67
M E C O	67	682	100	85
D 0 D	SUBTOTAL	4031	668	83
NEW MEXTCO BIM	68	431	112	74

TOTAL 4462 780

SUITABLE AREA
NEW MEXICO

MX SITING IMPESTIGATION
DEPARTMENT OF THE AIR FORCE SAMSO

83

APPENDIX

B-3

UGRO NATIONAL INC

VAL	LEY NUMBER	CONTIGUOUS VALLEY NUMBER	SUITABLE CONTIGUOUS AREA (nm ²)	SUITABLE AREA PLUS SUITABLE CONTIGUOUS AREA (nm ²)
	1	4,5	148	274
	2	12	208	300
R	3	9,11,12	1004	1417
1	4	1	126	168
J Z O N	5	1,10	156	262
N	6	B,18	357	389
,	7	9,14	615	787
	8	6,20	32	53
	g	3,7,11	860	1381
D	10	5,21	401	430
O D	11	3,9	934	1209
,	12	2.3	505	712
	13			
	14	7	172	266
A	15	16,19,22	688	918
R 1 Z N	16	15, 18, 22	822	953
Ż	17	19,21,22	852	1204
N	18	6,16,22	519	755
Ä	19	15,17,22	938	1139
8	20			l
B	21	10,17,22	738	1033
#1	22	15,16,17,18,19, 21	1446	1802

SUITABLE CONTIGUOUS AREA ARIZONA

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE SAMSO

APPENDIX

UGRO NATIONAL

LIME

VALI	VALLEY NUMBER	CONTIGUOUS Valley number	SUITABLE CONTIGUOUS AREA (nm ²)	SUITABLE AREA PLUS SUITABLE CONTIBUOUS AREA (nm ²)
	35	23, 26, 45, 56	238	375
	36	48.49	360	415
	37	39,49,55	377	618
	38	42,61	492	567
	38	24, 37, 55, 58	790	878
Z	40	51	73	270
	-	42	289	465
≪ ⊂	42	41,61	379	899
-	43	52,61	360	654
	44	48.54.57	728	998
	45	26.28,32,35	403	455
	46	61	203	308
	4.7			24
	89	36,44,50,53	486	597
	49	38, 37, 55	539	589
	20	48.53	553	603
	51	33,40,60,61	977	852
٥	52	25,43,54,60	730	887
ــه	53	48,50,54,61	910	1053
Œ	54	25, 29, 44, 52, 53	842	1089
	55	24,37,38,49,57	151	982
	26	30, 35, 58	252	307
	57	24,44,55	577	748
•	58	31,39,56	215	320
	28	32	117	136
_	09	33	7.0	298
	19	38, 42, 43, 46, 51	869	1072

VALE	VALLEY NUMBER	CONTIGUOUS Valley Number	SUITABLE CONTIGUOUS AREA (nm ²)	SUITABLE AREA PLUS SUITABLE CONTIGUOUS AREA (nm ²)
	23	35	137	181
	24	27,31,39,55,57	718	919
Z L	22	52,54	404	585
-	26	28.35,45	275	332
<0	27	24	201	363
<	28	28, 32, 45	231	318
	28	53,54	490	603
	30	31,56	226	136
<u> </u>	31	24.30,58	316	372
	32	28,45,59	158	275
	33	99	229	298
	34			68

SUITABLE CONTIGUOUS AREA NEVADA

MX SETTING INVESTIGATION DEPARTMENT OF THE AIR FORCE SAMSO

APPENDIX D. E.

TUBRO NATIONAL INC.

VAL	LEY NUMBER	CONTIGUOUS Valley Number	SUITABLE Contiguous Area (nm²)	SUITABLE AREA PLUS SUITABLE CONTIGUOUS AREA (nm²)
ZE.	62	66,67	432	439
	63	65,68	170	294
E	64			47
Mmx-co	65	63	124	1 82
0	66	62.67	107	439
D 0 D	67	62,66	339	439
NEW MEX-CO BLM	68	63	124	236

SUITABLE CONTIGUOUS AREA NEW MEXICO

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE SAMSO

APPENDIX
B-6

GRO NATIONAL INC.

APPENDIX C

AREAS OF BASIN-FILL DEPOSITS IN EACH VALLEY

				A	REA OF	BASIN-	FILL U	NIT (n	m ²)			SCALED	SUIT-
VALLEY NAME	VALLEY	A _Q	A,	A ₂	A 3	A4	A ₄	A ₅ _Q	A _{5QT}	A ₅	A ₅	AREA®	AREA (nm²)
ARIZONA DOD	1 :		<u> </u>				}	}	}				
CASTLE DOME	1		8	l	ł	}	}	93	25	}	}	116	126
GILA BEND PLAIN	2	6		1	ł	1	ł	40	46	ł	ł	79	92
GROWLER/CHILDS	3	263	35				į	109	6	i	1	328	413
INDIAN WASH	4		12	[[\	[18	12	ſ		33	42
KING	5		43	ì	}	}	}	20	43]	74	106
LA POSA PLAIN	6]		}	}	}	32]			32	32
LECHUQUILA DESERT	7		6	1	ľ	1	ł	149	17		ł	165	172
MOHAVE WASH	8		2		ĺ	İ	1	17	2		ł	19	21
MOHAWK/TULE	9	83	29	!	32	1	}	335	36		5	450	521
PALOMAS PLAIN	10		ļ						29		}	22	
SAN CRISTOBAL	111	127	19	1	3			108	3		14	227	275
SENTINEL PLAIN	12	127	5		ł	}	}	47	29			166	208
VEKOL	13		[İ	İ		İ]		}		a
YUMA DESERT	14	1			5		<u> </u>	83	5			89	94
ARIZONA BLM					{								
BUTLER	15		3	}	2	}	}	2	215	2	6	170	230
CACTUS PLAIN	18		8		84	Ì	Ì	1	34	4		53	131
HARQUAHALA PLAIN	17		85		i		i	ļ	252	15	1	239	352
LA POSA PLAIN	18	8	19		83]	1	25	101		Ì	139	236
MCMULLEN	19	1	15	ł			ļ	105	79	1		173	201
MOHAVE WASH	20		1			l	İ						
PALOMAS/HYDER	21		19	Ì	Ì			78	182	15	1	233	295
RANEGRAS PLAIN	22	1	64		7	1		1	277	7		246	356

*SCALED AREA IS THE SUM OF THE PRODUCTS OF THE AREA OF EACH BASIN FILL UNIT TIMES THE RESPECTIVE SCALING FACTOR (TABLE 5. SECTION 2.5.2)

AREA OF BASIN-FILL UNITS
ARIZONA

MX SITING INVESTIGATION
: EPAPTMENT OF THE AIR FORCE - SAMSC

APPENDIX
C-1

UGRO NATIONAL, INC.

				Al	REA OF	BASIN-	FILL U	NIT (nm	12)			SCALED	SUIT-
VALLEY NAME	VALLEY No.	Aq	A ₁	A ₂	A ₃	A ₄	A _{4M}	A ₅	A ₅	A ₅₀	A ₅ _U	AREA*	AREA (nm²
NEVADA DOD					!		· •						
BUCKBOARD MESA	23		3		Ì	ļ	ł	50	1			52	54
CACTUS FLAT	24		9	1	Ì	21	26	100	44			157	201
EMIGRANT	25		7	İ	<u> </u>	3	30	87	55	9		152	191
FRENCHMAN FLAT	26		5		į	6		42	9			52	62
GOLD FLAT	27		17	1	ĺ	3	17	83	47			137	168
INDIAN SPRING	28		6	(1	10	20	36	15			63	87
KAWECH	29		5	1		4	8	80	15			100	113
PAHUTE MESA	30		1	1	[1	6	3			9	10
STONEWALL FLAT	31		6	1	•	1	7	34	8	()		47	56
THREE LAKES	32	1	10	1	{	11	7	76	11	1 1		95	117
T I KABOO	33		3	ĺ	ĺ	1	2	51	12	1 !		64	70
YUCCA FLAT	34		16	ĺ	1	9	1	56	9	{		72	89

*SCALED AREA IS THE SUM OF THE PRODUCTS OF THE AREA OF EACH BASIN FILL UNIT TIMES THE RESPECTIVE SCALING FACTOR (TABLE 5, SECTION 2.5.2)

AREA OF BASIN-FILL UNITS
NEVADA DOD

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

C-2

UGRO NATIONAL INC.

				AF	EA OF	BAS IN-	FILL U	NIT (nm	2)			SCALEG	SUIT
VALLEY NAME	VALLEY NO.	Aq	A	A ₂	A ₃	14	A ₄ _M	A ₅ _Y	A5,	A ₅ ₆	A ₅	AREA*	AREA (nm²)
NEVADA BLM			Ţ										
AMARGOSA DESERT	35		23	1	6			96	11		ļ	118	137
ANTELOPE	38	1	3	{	1	[22	29			46	55
BIG SMOKY	37	1	10		7	2	ļ	114	109	2	1	206	246
CAVE	38	17	18	2	1	20		16	1			45	75
CLAYTON/ALKALI SPRING	39		4]				41	43	1	1	76	89
COYOTE SPR./KANE SPR.	40	2	6	2	ĺ	İ	1	149	22	1	15	184	197
DELAMAR/PAHROC	41		19	}	1	6	ļ	135	14	1		157	176
DRY LAKE/MULESHOE	42	11	34	22		10	6	136	70			236	289
GARDEN/COAL	43	9	40	3		59	1	199	15			255	326
HOT CREEK	44	2	5	1	ĺ	ľ	1	41	86	3	i	112	138
INDIAN SPRING	45		5			ļ	}	41	5	,		47	52
JAKES	46		23	12		25	4	31		1	11	68	106
LITTLE FISH LAKE	47		1					[22	1		17	24
LITTLE SMOKY	48	22	15	19	1	1	1	58	42	35	119	234	310
MONITOR	49	3	ļ			}		12	35]]	40	50
NEWARK	50	9	4					5	32			37	50
PAHRANAGAT	51		2		1	1 1		45	24			64	73
PENOYER	52	1	3					133	20			150	157
RAILROAD	53	30	7	1	1			159	42	3		219	243
RAILROAD/REVEILLE	54	6	2	21	6	1		97	109	1	4	205	247
RALSTON	55	70	11	1		4	1	70	73	9		189	238
SARCOBATUS FLAT	56		1		11	1		42	13	1		57	70
STONE CABIN	57	8	17					134	11	1		157	171
STONEWALL FLAT	58	16	7		5		66	9	2			89	105
THREE LAKES	59							18	1			19	19
TIKABOO	60	10	9	1	2	9		160	35	3		203	229
WHITE RIVER	61	16	21	4				74	75	13		163	203

^{*}SCALED AREA IS THE SUM OF THE PRODUCTS OF THE AREA OF EACH BASIN FILL UNIT TIMES THE RESPECTIVE SCALING FACTOR (TABLE 5, SECTION 2.5.2)

AREA OF BASIN-FILL UNITS
NEVADA BLM

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

C-3

TURRO NATIONAL, INC.

				AR	EA OF	BASIN-F	ILL UN	(nm²	2)			SCALED	SUIT-
VALLEY NAME	VALLEY NO.	Aq	A ₁	A ₂	A ₃	A4	A _{4M}	A _{5 Q}	A ₅ QT	A ₅	A ₅ U	AREA*	AREA (nm²)
NEW MEXICO DOD													
HUECO BOLSON	62	1	6	ļ	}	Ì	•	ļ	ļi			4	7
JORNADA DEL MUERTO N.	63	124		l	}		}	}				93	124
JORNADA DEL MUERTO S.	64	47	j	1	ľ	ļ	ł	}			:	35	47
TULAROSA BASIN N.	85	32	9		ļ		1	17				41	58
TULAROSA BASIN S.	66	266	1		31	16	l	18	}			225	332
TULAROSA BASIN E	67	68	24]	7	1						66	100
NEW MEXICO BLM													
JORNADA DEL MUERTO N.	68	73	20		8	}		11				75	112

^{*}SCALED AREA IS THE SUM OF THE PRODUCTS OF THE AREA OF EACH BASIN FILL UNIT TIMES THE RESPECTIVE SCALING FACTOR (TABLE 5, SECTION 2.5.2)

AREA OF BASIN-FILL UNITS
NEW MEXICO

MX SITING INVESTIGATION DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

VERD NATIONAL INC.

APPENDIX D

RANKING TABLES

(Including Wildlife Ranges)

NO. NAME A B C D E F G H I J J K L I CASTLE DOME AZD 2 GILA BEND PLAIN AZD 3 GROWLER/CHILOS AZD 4 INDIAN MASH AZD 1 1 8 4 5 2 5 10 9 9 6 8 10 9 6 9 4 10 10 10 10 10 10 10 10 10 10 10 10 10	'	VALLEY						RAI	NKIN	IG FA	CTOR	S*		
2 5 1 1 1 1 2 2 1 7 4 3 2 5 10 9 6 8 10 3 GROWLER/CHILDS AZD	NO		A	В	С	D	Ε						K	L
2 5 1 1 1 1 2 2 1 7 4 3 2 5 10 9 6 8 10 3 GROWLER/CHILDS AZD		•									_	_		_
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55 RALSTON NVB 5 5 10 4 3 4 3 10 8 9 10 9					-								-	-
56 SARCOBATUS FLAT NVB 1 2 10 4 2 3 4 7 8 9 2 10 57 STONE CABIN NVB 3 4 10 5 3 3 3 10 9 9 8 9			-		_									
57 STONE CABIN NVB 3 4 10 5 3 3 3 10 9 9 8 9 58 STONEWALL FLAT NVB 2 1 8 5 2 2 4 10 8 6 2 8														
59 THREE LAKES NVB 1 1 8 5 2 5 2 1 10 10 4 10				ì						1		-		-

FUGRO NATIONAL INC. LONG BEACH CA ANALYSIS OF SITING SUITABILITY, MX LAND MOBILE MISSILE SYSTEM, --ETC(U) SEP 76 K L WILSON, J R MILLER, J W LAVIOLETTE F04701-74-0-0013 AD-A113 205 UNCLASSIFIED FN-TR-15 NL 2 0.3 END DATE FILMED 04-82 DTIC

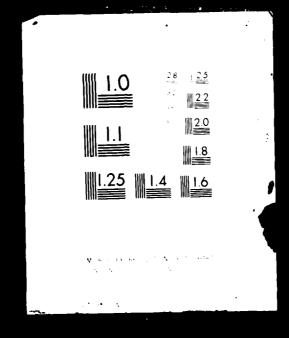


TABLE 6 -

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4		10	8	9	10	9	10	8	8	10	42	43	26.0	44.3
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47 LITTLE FIS	SH LAKE NVB	1	0	10	5	7	4	5	7	8	8	5	Th.
48 LITTLE SMC		6	3	8	5	3	4	4	10	8	8	4	10
49 MONITOR NV	/B	` 1	4	8	5	2	3	4	8	8	9	5	9
50 NEWARK NVE		1	4	8	4	3	3	3	9	7	9	4	8
51 PAHRANAGAT		1	5	8	5	3	3	5	9	9	6	B	10
52 PENOYER NY		3	5	8	5	3	5	4	9	10	9	4	10
53 PAILROAD N	1VB	5	6	8	5	3	4	5	8	9	9	4	10
54 RATLEDADIE	REVEILLE NVB	5	6	8	14	3	3	4	1.0	8	8	8	10
55 RALSTON NV	/B	5	5	1.0	4	3	4	3	10	8	9	10	9.
56 SAPCOBATUS	S FLAT NVB	1	2	10	4	2	3	4	7	8	9	5	10
57 STONE CABI	IN NVB	3	4	10	5	3	3	.3	10	9	9	8	9
58 STONEWALL	FLAT NVB	2	1	8.	5	5	2	4	10	8	6	2	8
59 THREE LAKE	S NVB	1	1	8	5	2	5	2	1	10	10	4	10
60 TIKABOO NV	/B	4	1	8	5	2	3	3	5	9	9	10	9
61 WHITE RIVE	R NVB	4	6	10	5	3	4	5	7	8	9	5	9
62 HUECO BOLS	SON NMD	1	3	9	5	10	10	3	1.0	6	.3	4	1
63 JORNADA DE	L MUERTO N NMD	2	1	10	5	A	0	3	6	8	5	2	10
64 JORNADA DE	L MUERTO S NMD	1	0	9	4	1	·7	3	8	7	6	5	10
65 TULAROSA P	BASIN N NMD	1	1	10	6	10	6	10	8	7	8	5	8
66 TULAROSA B		6	5	10	6	10	4	10	9	7	10	4	9
	BASIN E NMD	5	1	9	6	10	3	5	10	7	2	6	8
68 JORNADA DE	L MUERTO NMB	2	1	10	4	2	1	2	5	7	7	5	8

WEIGHTING FACTORS

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*RANKING FACTORS

**RANKIN

A = SUITABLE VALLEY AREA
B = SUITABLE CONTIGUOUS AREA P = AREAL RANKING Q = GEOTECHNICAL C = OWNERSHIP AND CONTROL (AMOUNT AND QUALITY) R = CULTURAL RANI D = GEOLOGY AND SOILS ENGINEERING (AMOUNT AND QUALITY) S = AREAL + GEOTI E = DEPTH TO ROCK (AMOUNT AND QUALITY) T = FINAL SCORE F = DEPTH TO WATER (AMOUNT AND QUALITY) G = SURFACE HYDROLOGY (AMOUNT AND QUALITY) H = OWNERSHIP AND CONTROL (FAVORABILITY) I = GEOLOGY AND SOILS ENGINEERING (FAVORABILITY)

K = DEPTH TO WATER (FAVORABILITY) L = SURFACE HYDROLOGY (FAVORABILITY)

J = DEPTH TO ROCK (FAVORABILITY)

M = POTENTIAL IMPACT (MILITARY) N = POTENTIAL IMPACT (CIVILIAN)

1.

O = DISTANCE TO SUPPORT FACILITIES (MILITARY AND CIVILIAN)

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7	4	4	10	8	8	4	10	6	8	8	9	46	40	43,4	62.4
5	3	u	å	8	9	5	9	10	8	10	5	42	44	30.9	50.1
5		-	9	•	9	ŭ.	8	10	8	6	5	41	41	30.3	48,5
٤	3	3									6	49	39	36,3	53.9
3	3	5	9	9	6	8	10	10	6	6					
3	5	4	9	10	9	4	10	10	8	6	8	50	41	42,3	60.5
3	4	5	8	9	9	4	10	8	6	6	11	49	36	48 9	64,9
7	3	4	10	8	8	8	10	8	8	10	11	48	44	49.1	69.7
	4	3	10	8	9	10	9	10	8	10	10	50	48	47.9	69,3
ž	3	4	7	8	9	2	10	10	8	8	3	42	43	26,9	44.3
3	3	3	10	9	ý	8	ģ	ัย	8	10	7	49	46	40.3	61.1
	Š	4	10	8	6	ž	8	10	8	10	3	37	46	24.9	46.1
S														20 7	70 0
2	5	2	1	10	10	4	10	10	6	10	5	48	35	28.3	39,9
2	3	3	5	9	9	10	9	10	6	8	5	50	37	37,3	51,9
3	4	5	7	8	9	2	9	10	6	8	10	45	41	43.7	60.5
10	10	3	10	6	.3	4	1	В	8	10	4	42	45	22.1	42.8
A	0	3	6	8	5	2	10	8	8	8	3	41	40	25.7	41.5
1	7	3	8	7	6	5	10	6	8	10	1	40	41	20,2	38.3
10	6	10	8	7	8	5	8	6	8	10	5	57	42	24,1	42.3
10	4	10	9	7	10	4	9	6	å	10	8	60	43	42.1	61.3
									8	8	3	44	41	24.7	43.8
10	3	5	10	7	5	6	- 8	6						54.0	
2	i	2	5	7	7	5	8	8	В	10	3	33	41	24.0	39,8

WEIGHTING FACTORS

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D CIVILIAN)

.1 .1 1.0 1.0 .5 .5 .3 .3 .5

**RANKING SCORES

P = AREAL RANKING SCORE (A+B)

Q = GEOTECHNICAL RANKING SCORF (D+E+F+G+I+J+K+L)

R = CULTURAL RANKING SCORE (C+H+M+N+O)

S = AREAL + GEOTECHNICAL SCORE (P+0 WITH WEIGHTING)

T = FINAL SCORE (P+O+R WITH WEIGHTING)

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SEP 3 1976

MATRIX ANALYSIS - TABLE & (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION DEPARTMENT OF THE AIR FORCE - SAMSO APPENDIX D-1

UGRO NATIONAL, INC.

RANKING BASED ON AREAL FACTORS (P)

V	ALLEY			R	ANKING	SCORE	S.
NO.	NAME	Р	(3	R	S	T	U
						•	-
	BINESDAS DI ATN. A 75	1.7	70	4.0	E0 7	7 / 'E	754
55	RANEGRAS PLAIN AZB	17	39	40	58.7	74.5	356
9	MOHAWK/TULE AZD	16	44	34	61.5	79.5	521
3	GROWLER/CHILDS AZD	15	44	34	57.4	75.4	413
17	HARQUAHALA PLATN AZB	1.3	41	41	49.7	65.1	352
51	PALOMAS/HYDER AZB	11	41	43	46.5	63.9	295
53	RATLEDAD NVB	11	49	36	48.9	64.9	243
54	RAILROAD/REVEILLE NVH	11	48	44	49.1	69.7	247
11	SAN CRISTORAL AZD	11	44	34	47.1	64.7	275
19	MC MULLEN AZB	10	44	41	44.1	59.5	201
55	PALSTON NVB	10	50 45	48	47.9	69.3	238
61	WHITE RIVER NVB	10	45	41	43.7	60.5	203 230
15	BUTLER AZB	9	40	36	41.0 39.0	59,3 53,5	201
24	CACTUS FLAT NVD	9	38	46	37.5	56.9	131
16	CACTUS PLAIN AZR	9	46	42	44.2	62.6	289
42	DRY LAKE/MULESHOE NVA	9	38	44	39.5		236
18	LA POSA PLAIN AZB	9	46			59.2	
48	LITTLE SMOKY NVB			40	43.4	62.4	310
37	PIG SMOKY NVB	8	46	44	39.9	58.3	246
43	GARDEN/COAL NVB	. 8	49	42	42.7	61.9	326
44	HOT CREEK NVB	8	52	43	42.3	61.5	138
52	PENDYER NVB	8	50	41	42.3	60.5	157
66	TULAROSA BASIN S NMD	8	60	43	42.1	61.3	332 89
39	CLAYTON-ALKALI SPRING NVB	7	46	45	37.5	56.9	
25	FMIGRANT NVO	7	36	33	34.2	49.9	191
7	LECHUGUILLA DESERT AZD	7	47	34	39.8 79.3	57.8	172
12	SENTINEL PLATE AZD	7 7	44	41	38.2	58.1	208
57	STONE CABIN NVR		49	46	40.3	61.1	171
51	PAHRANAGAT NVH	6	49	39	36.3	53.9	73
35	AMARGOSA DESERT NVR	5	45	46	34.3	53.7	137
40	COYOTE SPR/KANE SPR NVB	5 5	43 43	37 43	34.2 33.7	48.0 52.6	276 176
41	DELAMAR/PAHROC NVB	5 5	40	32	33.7 32.5	49.1	113
29 49	KAWICH NVD MONITOR NVD	5	42	44	30.9	50.1	50
50	NEWARK NVB	5	41	41	30.3	48.5	50
60	TIKAROO NVR	Ś	50	37	37.3	51.9	229
38	CAVE NVB	ű	36		26.3	46.5	75
27	GOLD FLAT NVD	ū	40	40	29.9	48.9	168
62	HUECO BOLSON NMO	4	42	45	22.1	42.A	7
28	INDIAN SPRING NVD	4	38	33	28.3	45.4	87
45	INDIAN SPRING NVR	ű	48	48	33.4	54.8	52
10	PALDMAS PLAIN AZD	4	36	39	26.1	45.0	30
34	YUCCA FLAT NVD	4	63	33	33.5	44.1	89
36	ANTELOPE NVB	3	46	41	28.1	46.3	55
1	CASTLE DOME AZD	3	49	40	30.2	49.6	126
56	FRENCHMAN FLAT NVD	3	50	33	28.1	3A.7	68
5	GILA BEND PLAIN AZD	3	47	41	30.0	49.9	92
46	JAKES NVA	3	42	46	26.4	46.8	106
6.5	JORNADA DEL MUFRTO N NMD	3	41	40	25.7	41.5	124
6 A	JURNADA DEL MUERTO NMB	3	33	41	24.0	39.8	112
5	KING AZD	3	46	38	26.1	45.3	106
6	LA POSA PLAIN AZO	3	51	40	31.6	51.4	32
56	SARCHRATUS FLAT NVB	3	úż	43	26.9	44.3	70
5A	STONEWALL FLAT NVB	3	37	46	24.9	46.1	105
31	STONEHALL FLAT NVO	3	37	44	53.5	43.8	56
32	THREE LAKES NVD	3	35	34	25.1	42.7	117
33	TIKABOO NVD	3	43	34	29.1	46.5	70
53 67	TULAROSA BASTN E NED	3	44	41	24.7	43.8	100
14	YUMA DESERT AZD	. 3	49	40	30.6	50.4	94
1 "	TOWN VENTUL MEN	2	7	77	77.0		7 7

FACTURS (P)

R R	ANKING S	SCORE	3 ★	٧	w
40	58.7	74.5	356	274	1
34 34	61.5	79.5	521	271	2
41	57.4 49.7	75.4 65.1	413 352	550	3 4
43	46.5	63.9	295		5
36	48.9	64.9	243		6
44	49.1	69.7	247		7
34	47.1	64.7	275	230	8
41	44.1	59,5	201		9
48	47.9	69.3	238		10
41	43.7	60.5	203		1 1 1 2
36	39.0	59.3 53.5	230 201	188	13
46	37.5	56.9	131	• (-(-	14
42	44.2	62.6	289		15
44	39.5	59.2	236		16
40	43.4	62.4	310		17
44	39.9	58.3	246		18
42	42.7	61.9	326		19
43	42.3	61.5	138 157		20
41	42.3	60.5	332		21 22
45	37.5	56.9	89		23
33	34.2	49.9	191	135	24
34	39.8	57.8	172	140	25
41	38.2	58.1	808		95
46	40.3	61.1	171		27
39	36.3	53.9	73		28
46 37	34.3 34.2	53.7	137 276	209	29 30
43	33.7	48.0 52.6	176	204	31
32	32.5	49.1	113	0	32
44	30.9	50.1	50		33
41	30.3	48.5	50		34
37	37.3	51.9	229	144	35
45	26.3	46.5	75	412	36
40 45	29.9 22.1	48.9 42.8	168 7	132	37 38
33	28.3	45.4	87		39
48	33.4	54.8	52	11	40
39	26.1	45.0	30		41
33	33.5	44.1	89		42
41	28,1	46.3	55		43
40	30.2	49.6	126		44
33	28.1	38.7	62	35	45 46
41	30.0 26.4	49.9 46.8	92 106		47
40	25.7	41.5	124		48
41	24.0	39.8	112		49
38	26.1	45.3	106		50
40	31.6	51.4	32		51
43	26.9	44.3	70		52
46	24.9	46.1	105		53 54
44 34	23.2 25.1	43.8 42.7	56 117		54 55
34	29,1	46.3	70	29	56
41	24.7	43.8	100	14 7	57
				براء ومرد والمام المام والمام	

	200	And the second s	7507			
33	ISMESSION WILL	3	43	34	29.1	46.5
67	TULAROSA BASTN E NMD	3	44	41	24.7	43.8
14	YUMA DESERT AZD	3	49	40	30.6	50.4
23	BUCKBOARD MESA NVD	5	47	31	26.2	36.6
4	INDIAN WASH AZD	5	45	42	21.4	41.4
8	MOHAVE WASH AZD	5	44	44	25.2	43.2
30	PAHUTE MESA NVD	2	41	40	25.1	44.5
59	THREE LAKES NVB	5	48	35	28.5	37.9
65	TULAROSA BASIN N MMD	2	57	42	24.1	42.3
64	JORNADA DEL MUERTO S NMD	1	40	41	20.2	38.3
47	LITTLE FISH LAKE NVH	1	44	39	22.3	38.5
50	MOHAVE WASH AZB	0	0	0	.0	.0
13	VEKOL AZD	0	Ó	ò	.0	.0

*RANKING SCORES

- P = AREAL RANKING SCORE (A+B)
- Q = GEOTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+O)
- S = COMBINED AREAL AND GEOTECHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+Q+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- W = NUMERICAL RANK

200					7		
***	44	41	24.7	43.8	100	57	
3	49	40	30.6	50.4	94	58	
5 5	47	31	26.2	36.6	54	59	
5	45	42	21.4	41.4	42	60	
5	44	44	25.2	43,2	21	61	
5	41	40	25.1	44.5	10	62	
	48	35	28.5	39.9	19	63	
5	57	42	24.1	42.3	58	64	
1	40	41	20.2	38.3	47	65	
1	44	39	25.3	38.5	24	66	
0	0	0	• 0	. 0	0	67 DRA	FT
0	0	0	. 0	. 0	0	68	
						SEP 3	1976

J+K+L)

(P+Q WITH WEIGHTING FACTORS)

R HILDERNESS AREAS

RANKING BASED ON COLUMN P (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION

APPENDIX

DEPARTMENT OF THE AIR FORCE - SAMSO

D-2

UGRO NATIONAL, INC.

RANKING BASED ON GEOTECHNICAL FACTORS (9)

V	ALLEY		RANKING SCO					
ุพถ.	NAME	p	G	R	S	Ť	Ų	V
- •								
34	YUCCA FLAT NVD	4	63	33	33.5	44.1	89	
54 66	TULARDSA BASIN S NMD	8	60	43	42.1	61.3	332	
65	TULAROSA BASTN N NMD	ž	57	42	24.1	42.3	58	
97 44	HOT CREEK NVH	8	52	43	42.3	61.5	138	
	LA POSA PLAIN AZD	3	51	40	31.6	51.4	35	
6	FRENCHMAN FLAT NVD	, ,	50	33	28.1		62	35
26 52	PENDYER NVB	8	50	41	42.3		157	
52 55	RALSTON NVR	10	50	48	47.9		238	
55		5	50 50	37	37.3	51.9	559	144
60	TIKABOO NVB Castle Dome AZD	3	49	40	30.2	49.6	126	
1 7	CASTLE DOME AZD	3 8	49	42	42.7	61.9	326	
43	GARDEN/COAL NVB	6	49	39	36.3	53.9	73	
51	PAHPANAGAT NVB	11	49	39 36	48.9		243	
53	RAILROAD NVB	7	49	39 46	40.3	61.1	171	
57	STONE CABIN MVR	3	49	40	30.6	50.4	94	
14	YUMA DESERT AZD	5 4	48	48	33.4	54.8	52	11
45	INDIAN SPRING NVB	11	48	44	49.1	69.7	247	
54	RAILROAD/REVEILLE NVB	5	46 48	35	28.3	59.7 39.9	19	
59	THREE LAKES NVB	S	48 47	35 31	26.2		14 54	
23	BUCKBOARD MESA NVD	3 3	47 47	51 41	30.0	49,9	92	
2	GILA BEND PLAIN AZD	3 7	4 7 4 7	41 34		57.8	172	140
7	LEGHUGUILLA DESERT AZD					57.8 46.3	172 55	¥ 44 O
36	ANTELOPE NVB	3 8	46	41	28.1			
37	BIG SMOKY NVR	8	46	44	39.9 37.5		246 89	
39	CLAYTON-ALKALI SPRING NVB	7	46	45 #2	37.5			
42	DRY LAKE/MULESHOE NVB	9	46	42	44.2	62.6	289 106	
5	KING AZD	3	46	3 8	26.1		106	
48	LITTLE SMOKY NVB	9	46	40	43.4		310	
35	AMARGOSA DESERT NVB	5	45	46		53.7	137	
15	BUTLER AZB	9	45	43	41.0		230	
u	INDIAN WASH A7D	. 2	45	42	21.4		42	
61	WHITE RIVER NVB	10	45	41	43.7		203	300
3	GROWLER/CHILDS AZD	15	44	34	57.4		413	550
47	LITTLE FISH LAKE NVB	1	44	39	22.3		24	
19	MC MILLEN AZH	10	44	41	44.1		201	
8	MOHAVE WASH AZD	2	44	44	55.5	43.2	21	3 -
9	MOHAWK/TULF AZD	16		34		79.5		271
11	SAN CRISTOBAL AZD	1 <u>1</u>	44	34	47.1		275	230
12	SENTINEL PLAIN AZD	7	44	41	38.2		208	
67	TULAROSA BASTN E NMD	3	44	41	24.7		100	• • -
40	COYOTE SPRIKANE SPR NVB	5	43	37	34.2		276	209
41	DELAMAR/PAHROC NVB	5	43	43	33,7		176	-
33	TIKAHOO NVO	3	43	34	29.1		70	29
95	HUFCO BOLSON NMD	4	42	45	1.55	42.8	7	
46	JAKES NVR	3	42	46	26.4	46.8	106	
49	MUNITUS NAB	5	42	44	30.9	50.1	50	
56	SARCHBATUS FLAT NVR	3	42	43	26.9	44.3	70	
70 17	HARQUAHALA PLAIN AZB	13	41	41	49.7	65.1	352	
1 / 63	JORNADA DEL MUERTO N NMO	3	41	40	25,7	41.5	124	
5) 5 ()	NEWARK NVB	5	41	41	30.3	48.5	50	
	PAHUTE MESA NVD	\$	41	40	25.1	-	10	
30 21		11	41	43	46.5		295	
21	PALOMAS/HYDER AZH	11	40	36	39.0		201	188
24	CACTUS FLAT NVD	4	40	40	29.9		168	132
27	GOLD FLAT NVD		40	41	50.5		47	
64	JORNADA DEL MUERTO S NMD	1 4	40	32	32.5		113	0
29	KAWICH NVD	5		32 40	36.7 58.7		113 356	v
55	RANEGRAS PLAIN AZB	17	39 38	46	37.5			
16	CACTUS PLAIN AZB	9	38 38				1 5 1 8 7	٥
38	INDIAN SPRING NVD	4	38	33	28,3	45,4	87	

ECHNICAL FACTORS (0)

	R	ANKING	SCORES	S *		
D	R	S	T	U	٧	W
			* · .			
3	33	33.5	44.1	89		1
0	43	42.1	61.3	332		? 3
7 82	42 43	24.1 42.3	42.3 61.5	58 138		4
1	40	31.6	51.4	32		5
0	33	28.1	38.7	62 52	35	6
50	41	42.3	60.5	157	77	7
50	48	47.9	69.3	238		8
50	37	37.3	51,9	559	144	9
19	40	30.2	49.6	126	•	10
19	42	42.7	61.9	326		11
19	39	36.3	53.9	73		12
19	36	48.9	64.9	243		13
9	46	40.3	61.1	171		14
9	40	30.6	50.4	94		15
8	48	33.4	54.8	52	11	16
18	44	49.1	69.7	247		17
18 17	35 31	28.3	39 . 9	19 54		18 19
7	41	26.2 30.0	36.6 49.9	92		50
7	34	39.8	57.8	172	140	21
16	41	28.1	46.3	55	0	55
16	44	39.9	58.3	246		23
16	45	37.5	56.9	89		24
16	42	44.2	62,6	289		25
16	38	26.1	45.3	106		26
16	40	43.4	62.4	310		27
15	46	34.3	53.7	137		85
15	43	41.0	59.3	230		29
15	42	21.4	41.4	42		30
15	41	43.7	60.5	203	224	31
4	34	57.4	75.4	413	550	32
4	39 41	22.3 44.1	38.5 59.5	24 201		33 34
4	44	22.2	43.2	21		35
4	34	61.5	79.5	521	271	36
14	34	47.1	64.7	275	230	37
4	41	38.2	58.1	208		38
4	41	24.7	43.8	100		39
3	37	34.2	48.0	276	209	40
13	43	33,7	52.6 46.3	176		41
13	34	29.1	46.3	70	29	42
12	45	1.55	42.8	7		43
12	46	26.4	46.8	106		44
2	44	30,9	50.1	50		45
15	43	26.9	40.3	70 753		46
11	41	49.7	65.1	352		47
11	40	25.7 30.3	41.5	124 50		48 49
) 1 1	40	30.3 25.1	44.5	10		50
11	43	46.5	63.9	295		51
10	36	39.0	53.5	201	188	52
10	40	29.9	48.9	168	132	53
0	41	50.5	38.3	47		54
10	32	32,5	49.1	113	0	55
T					•	22

2

			41	- 18	44.4	65.1	3
63	JORNADA DEL MUERTO N NMO	3	41	40	25.7	41.5	
50	NEWARK NVR	5	41	41	30.3	48.5	
30	PAHUTE MESA NVD	5	41	40	25.1	44.5	
21	PALOMAS/HYDER AZR	11	41	43	46.5	63.9	
24	CACTUS FLAT NVD	9	40	36	39.0	53.5	
27	GOLD FLAT NVD	4	40	40	29.9	48.9	
64	JORNADA DEL MUERTO S NMD	1	40	41	20.2	38.3	
29	KAWICH NVD	5	40	32	32.5	49.1	
55	PANEGRAS PLAIN AZB	17	39	40	58.7	74.5	
16	CACTUS PLAIN AZB	9	38	46	37.5	56.9	
28	INDIAN SPRING NVD	4	38	33	28.3	45.4	
18	LA POSA PLAIN AZB	9	38	44	39.5	59,2	
31	STONEWALL FLAT NVD	3	37	44	23.2	43.A	
58	STONEWALL FLAT NVA	3	37	46	24.9	46.1	
38	CAVE NVB	4	36	45	26.3	46.5	
25	EMIGRANT NVD	7	36	33	34.2	49.9	
10	PALOMAS PLAIN AZD	Ц	36	39	26.1	45.0	
32	THREE LAKES NVD	3	35	34	25.1	42.7	
68	JORNADA DEL MUERTO NMB	. 3	33	41	24.0	39.8	
20	MOHAVE WASH AZB	0	0	0	.0	• 0	
13	VEKOL AZD	0	0	0	. 0	. 0	

*RANKING SCORES

P = AREAL RANKING SCORE (A+B)

Q = GEOTECHNICAL RANKING SCORE (D+F+F+G+I+J+K+L)

R = CULTURAL RANKING SCOPE (C+H+M+N+O)

S = COMBINED AREAL AND GEOTECHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)

T = FINAL SCORE (P+Q+R WEIGHTING FACTORS)

U = SUITABLE VALLEY AREA

V = SUITABLE ARFA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS

W = NUMERICAL RANK

B

		30.6.	246.	-		
15	43	26.9	44.3	70		46
41	41	49.7	65.1	352		47
41	40	25,7	41.5	124		48
41	41	30.3	48.5	50		49
41	40	25.1	44.5	10		50
41	43	46.5	63.9	295		51
40	36	39.0	53.5	201	188	52
40	40	59.9	48.9	168	132	53
40	41	50.5	38.3	47		54
40	32	32,5	49.1	113	0	55
39	40	58.7	74.5	356		56
38	46	37.5	56.9	131		57
38	33	28.3	45.4	87		58
38	44	39.5	59.2	236		59
37	44	23.2	43.A	56		60
37	46	24.9	46.1	105		61
36	45	26.3	46.5	75		62
36	33	34.2	49.9	191	135	63
37 36 36 36	39	26.1	45.0	30		64
35	34	25.1	42.7	117		65
33	41	24.0	39.8	112		66
0	0	• 0	• 0	0		67
0	0	. 0	• 0	0		68
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SEP 3 1976

TH WEIGHTING FACTORS)

RNESS AREAS

RANKING BASED ON COLUMN Q (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION

APPENDIX

DEPARTMENT OF THE AIR FORCE - SAMSO

D-3

UGRO NATIONAL, INC.

RANKING RASED ON CULTURAL FACTORS (R)

١.	ALLEY			R	ANKING	SCORE	S*
NO.	NAME	Þ	ດ	R	S	Ť	- ij
45	INDIAN SPRING NVB	4	48	48	33.4	54.8	52
55	RALSTON NVB	10	50	48	47.9	69.3	238
35	AMARGOSA DESERT NVB	5	45	46	34.3	53.7	137
16	CACTUS PLATN AZH	9	38	46	37,5	56.9	131
46	JAKES NVB	3	42	46	26.4	46.8	106
57	STONE CARIN NVB	7	49	46	40.3	61.1	171
58	STONEWALL FLAT NVB	3	37	46	24.9	46.1	105
38	CAVE NVB	4	36	45	26.3	46.5	75
30	CLAYTON-ALKALI SPRING NVB	7	46	45	37.5	56.9	89
62	HUECO BOLSON NMO	Ц	42	45	1,55	42.8	7
37	RIG SMOKY NVR	В	46	44	39.9	58.3	246
18	LA POSA PLAIN AZR	9	38	44	30.5	59.2	836
Я	MOHAVE WASH AZD	2	44	44	55.5	.43.5	21
49	MONITOR NVB	5	42	44	30.9	50.1	50
54	RAILROAD/REVEILLE MVR	11	48	44	49.1	69.7	247
31	STONEWALL FLAT NVD	3	37	44	53.5	43.8	56
15	BUTLER AZB	9	45	43	41.0	59.3	230
41	DELAMAR/PAHROC NVB	5	43	43	33.7	52.6	176
44	HOT CREEK NVB	. 8	52	43	42.3	61.5	138
21	PALOMAS/HYDER AZB	11	41	43	46.5	63.9	295
56	SARCORATUS FLAT NVR	3	42	43	26.9	44.3	70
66	TULAROSA BASIN S NMD	8 9	60 46	43 42	42.1 44.2	61.3	332 289
42	DRY LAKE/MULESHOE MVB	8	49	42	42.7	62.6	326
43	GARDEN/CHAL NVR	5 0	45	45	21.4	41.4	42
4	INDIAN WASH AZD	5	95 57	45	24.1	42.3	5.8
65	TULAROSA BASIN N NMD	3	46	41	28.1	46.3	55
36	ANTELOPE NVA	3	47	41	30.0	49.9	92
? 17	GILA BEND PLAIN AZD Harquahala Plain AZB	13	41	41	49.7	65.1	352
64	JORNADA DEL MUFRTO S NMD	1	40	41	20.2	38.5	33e. 47
68	JORNADA DEL MUERTO NMB	3	33	41	24.0	39.8	112
19	MC MULLEN AZR	10	44	41	44.1	59.5	501
50	NEWARK NVB	Ŝ	41	<i>u</i> 1	30.3	48.5	50
52	PENDYER NVB	8	50	41	42.3	60.5	157
12	SENTINEL PLAIM AZD	7	44	41	38,2	58.1	208
67	THLAROSA BASTN E NMD	3	44	41	24.7	43.8	100
61	WHITE RIVER NVB	10	45	41	43.7	60.5	203
1	CASTLE DOME AZD	3	49	Δ0	30.2	49.6	126
27	GOLD FLAT NVD	4	40	40	29.9	48.9	168
6.5	JORNADA DEL MUFRTO N NMD	3	41	40	25.7	41.5	124
6	I.A POSA PLAIN AZD	3	51	40	31.6	51.4	35
48	LITTLE SMOKY NVB	9	46	40	43.4	62.4	310
30	PAHUTE MESA NVD	2	41	40	25.1	44.5	10
22	RANEGRAS PLATN AZR	17	39	40	5A.7	74.5	356
14	YUMA DESFRE AZD	3	49	40	30.6	50.4	94
47	LITTLE FISH LAKE NVR	1	44	30	22.3	38.5	24
51	PAHRANAGAT NVB	6	49	39	36.3	53.9	73 30
10	PALOMAS PLAIN AZD	4	36	39	26,1 26,1	45.0 45.3	106
5 40	KING AZD COYOTE SPRZKANE SPR NVB	3 5	46	38 37	34.2	48.0	276
60	TIKABOO NVB	5	50	37 37	37.3	51.9	259
24	CACTUS FLAT NVD	9	40	36	39.0	53.5	201
53	RATLENAD NVB	11	49	36	48.9	64.9	243
59	THREE LAKES NVB		48	35	28.3	39.0	19
3	GROWLER/CHILDS AZD	15	44	34	57.4	75.4	413
7	LECHUGUILLA DESERT AZD	7	47	34	39.8	57.8	172
9	MOHAWK/TULF AZD	16	44	34	61.5	79.5	521
11	SAN CRISTORAL AZO	11	44	34	47.1	64.7	275
32	THREE LAKES NVD	3	35	34	25.1	42.7	117

CULTURAL FACTORS (R)

JETURAL	FAC	TORS (F	₹)			
	a	ANKTNG	SCORE	8+		
n	R	5	T	U~ IJ	V	W
	6	37 11	- '0	e: 5		
48 50	48 48	33.4 47.9	54.8 69.3	52	1 1	1
45	46	34.3	53.7	238 137		2
38	46	37.5	56.9	131		4
42	46	26.4	46.8	106		5
49	46	40.3	61.1	171		6
37	46	24.9	46.1	105		7
36	45	26.3	46.5	75		8
46	45	37.5	56.9	89		9
47	45	22.1	42.8	7		10
46 38	11 TI	39,9 30,5	58.3 59.2	246 236		11
44	44	22.2	43.2	21		13
42	44	30.9	50.1	50		14
48	44	49.1	69.7	247		15
37	44	53.5	43.8	56		16
45	43	41.0	59.3	230		17
43	43	33.7	52.6	176		18
52 41	43	42.3	61.5	138		19
42	43	46.5 26.9	63.9 44.3	295 70		21 21
60	43	42.1	61.3	332		55
46	42	44.2	62.6	289		23
49	42	42.7	61.9	326		24
45	45	21.4	41.4	42		25
57	20	24.1	42.3	58		56
46	41	28.1	46.3	55		27
47	41	30.0	49.9	92 753		85
υ1 40	41	49.7	65.1 38.5	352 47		29 30
33	41	24.0	39.8	112		51
44	41	44.1	59.5	201		32
41	41	30.3	48.5	50		5.3
50	41	42.3	60.5	157		34
44	41	38,2	58,1 43,8	208		35 36
44 45	41	24.7 43.7	60.5	100 203		37
49	40	30.2	49,6	126		38
40	40	29.9	48.9	168	132	39
41	40	25,7	41.5	124		40
51	40	31.6	51.4	32		41
46	40	43.4	62.4	310		42
41	40	25.1	44.5 74.5	10 35 6		43
39 49	40	58.7 30.6	50.4	94		45
44	30	22.3	38.5	24		46
49	39	36,3	53.9	73		47
36	39	26,1	45.0	30		48
46	38	26.1	45.3	106		49
43	37	34.2	48.0	276	209	50
50	37	37.3	51.9	229	144	51 52
40	36 36	39.0 48.9	53.5	201 243	188	53
49 48	35	28.3	59.9	19		54
		87.4	75.4	uii	220	55

5	KING AZD	3	46	38	26.1	45.3	106	`
40	COYDTE SPRIKANE SPR NVB	5	43	37	34.2	48.0	276	
60	TIKABOO NVH	5	50	37	37.3	51.9	229	
24	CACTUS FLAT NVD	9	40	36	39.0	53.5	201	
53	RATLEMAD NVB	11	49	36	48.9	64.9	243	
59	THREE LAKES NVB	5	48	35	28.3	39.9	19	
3	GROWLER/CHILDS AZD	15	44	34	57.4	75.4	413	
7	LECHUGUILLA DESERT AZD	7	47	34	39.8	57.8	172	
9	MOHAWK/TULF AZD	16	44	34	61.5	79.5	521	
11	SAN CRISTORAL AZD	11	44	34	47.1	64.7	275	
32	THREE LAKES NVD	3	35	34	25.1	42.7	117	
33	TIKABOO NVD	3	43	34	29.1	46.3	70	
25	EMIGRANT NVD	7	36	33	34.2	49.9	191	
86	FRENCHMAN FLAT NVD	3	50	33	28.1	38.7	62	
28	INDIAN SPRING NVD	4	38	33	28.3	45.4	87	
34	YUCCA FLAT NVD	4	63	33	33.5	44.1	9.8	
٥٥	KAWICH NVD	5	40	32	32.5	49.1	113	
23	PUCKRUARD MESA NVD	Ş	47	31	56.2	36.6	54	
20	MOHAVE WASH AZR	0	0	0	.0	. 0	0	
13	VEKOL AZD	0	0	Q	.0	.0	0	

*RAMKING SCORES

P = AREAL RANKING SCOPE (A+B)

D = GEOTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)

R = CHLTURAL RANKING SCORE (C+4+4+0+0)

S = COMBINED AREAL AND GENTECHNICAL SCORE (P+R WITH WEIGHTING FACTORS)

T = FINAL SCORE (P+Q+R WEIGHTING FACTORS)

U = SUITABLE VALLEY AREA

V = SUITABLE AREA (U) FXCLUDING WILDLIFE OR WILDERNESS AREAS

W = NUMERICAL RANK

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34	36.3	22.4	73		
39	26.1	45.0	30		48
38	26.1	45.3	105		49
37	34.2	48.0	276	209	50
37	37.3	51.9	229	144	51
36	39.0	53,5	201	188	52
36	48.9	64.9	243		53
35	28.3	39.9	19		54
34	57.4	75.4	413	250	55
34	39.8	57.8	172	140	56
34	61.5	79.5	521	271	57
34	47.1	64.7	275	230	58
34	25.1	42.7	117		59
34	29.1	46.3	70	29	60
33	34.2	49.9	191	135	61
33	1.85	38.7	62	35	62
33	28.3	45.4	87		63
33	33.5	44.1	9 8		64
32	32.5	49.1	113	0	65
31	56.5	36,6	54		66
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SEP 3 1976

WEIGHTING FACTORS)

NESS AREAS

RANKING BASED ON COLUMN R (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

D-4

UGRO NATIONAL, INC.

11

	/ALLEY			p	ANKTNG	SCORE	S. +
ุ กก ู	NAME	P	O	R [°]	S	7	U U
		•		•		•	•
9	MNHAWK/TULE AZD	16	44	34	61.5	79.5	521
55	RANEGRAS PLAIN AZB	17	39	40	56.7	74.5	356
3	GRUWLFR/CHILDS AZD	15	44	34	57.4	75.4	413
17	HARQUAHALA PLAIN AZB	1.3	41	41	49.7	65.1	352
54	RAILROAD/REVETILE NVB	11	48	44	49.1	69.7	247
53	RATLENAD NVB	11	49 -		48,9	64.9	243
55	RALSTON NVB	1.0	50	48	47.9	49.3	238
11	SAN CRISTOBAL AZD	1.1	44	34	47.1	64.7	275
21	PALOMAS/HYDER AZB	11	41	43	46.5	63.9	295
42	DRY LAKE/MULESHOE NVB	9	46	42	44.2	62.6	289
19	MC MULLEN AZB	1.0	44	41	44.1	59.5	105
61	WHITE RIVER NVB	10	45	41	43.7	60.5	203
48	LITTLE SMOKY NVR	9	46	40	43.4	62.4	310
43	GARDEN/COAL NVB	8	49	42	42.7	61.9	326
44	HOT CREEK NVB	8	52	43	42.3	61.5	138
52	PENOYER NVB	8	50	41	42.3	60.5	157
66	TULAROSA HASIN S NMD	8	60	43	42.1	61.3	332
15	BUTLER AZB	9	45	43	41.0	59.3	530
57	STONE CARIN NVR	7	49	46	40.3	61.1	171
37	BIG SMOKY NVB	8	46	44	39.9	58.3	246
7	LECHUGUILLA DESERT AZD	7	47	34	39 . R	57.B	172
1.8	LA POSA PLAIN AZB	9	38	44	39,5	59.2	236
24	CACTUS FLAT NVD	9	40	36	39.0	53.5	201
12	SENTINEL PLAIM AZD	7	44	41	38.2	58.1	20R
16	CACTUS PLATM AZR	9	38	46	37.5	56.9	1 31
39	CLAYTON-ALKALI SPRING NVB	7	46	45	37.5	56.9	89
60	TIKABOO NYB	5	50	37	37.3	51,9	229
51	PAHRANAGAT NVB	6	49	39	36.3	53.9	73
35	AMARGOSA DESFRI NVB	5 5	45	46	34.3	53.7	137
40	COYOTE SPRIKANE SPR NVB	7	43 36	37 33	34.2 34.2	48.0 49.9	276 191
25	FMIGRANT NVD DELAMAR/PAHROC NVB	5	43	43	33.7	52.6	176
41 34	YUCCA FLAT NVD	4	63	33	33.5	44.1	89
45	INDIAN SPRING NVR	4	48	48	33,4	54.8	52
29	KAWICH NVD	5	40	32	32.5	49.1	113
6	LA POSA PLAIN AZP	3	51	40	31.6	51.4	32
49	BV TOSA PERIO AZE	5	42	44	30.9	50.1	50
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94
50	NEWARK NVB	ร์	41	41	30.3	48.5	50
1	CASTLE DOME AZD	3	49	40	30.2	49.6	126
Ş	GTLA BEND PLAIN AZD	3	47	41	30.0	49.9	92
27	GOLD FLAT NVD	ä	40	40	29.9	48.9	168
33	TIKABOO NVO	3	43	34	29.1	46.3	70
28	INDIAN SPRING NVD	4	38	33	28.3	45.4	87
59	THREE LAKES NVB	ž	48	35	28.3	39.0	19
36	ANTELOPE NVB	3	46	41	28.1	46.3	55
26	FRENCHMAN FLAT NVD	3	50	33	28.1	38.7	62
56	SARCOBATUS FLAT NVB	3	42	43	26.9	44.3	70
46	JAKES NVB	3	42	46	26.4	46.8	106
38	CAVE NVS	u	36		26.3	46.5	75
23	BUCKBOARD MESA NVD	Š	47	31	56.5	36.6	54
5	KING AZD	3	46	38	26.1	45.3	106
10	PALOMAS PLAIN AZD	e u	36	30	26.1	45.0	30
63	JORNADA DEL MUFRTO N NMD		41	40	25,7	41.5	124
30	PAHUTE MESA NVD	3 2	41	40	25.1	44.5	10
32	THREE LAKES NVD	3	35	34	25.1	42.7	117
58	STONEWALL FLAT NVB	3	37	46	24.9	46.1	105
67	TULAROSA BASIN F NMD	3	44	41	24.7	43.8	100
45	THE APORA MARIN N MAD	J					

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		.		000050			
	_		NKING	SCORES	u U	٧	ler .
Ρ	0	ĸ	S	T	U	•	•
	n h	2 //	41 6	79.5	521	271	1
16	44	34	61.5 58.7	74.5	356	<i>C</i> , .	į
17	39	40		75.4	413	055	3
15	44	34	57.4	65.1	352	G.C.	ű
1.3	41	41	49.7		247		5
11	48	44	49.1	69.7 64.9	243		6
11	49 -	36	48.9	69.3	238		7
1.0	50	48	47.9	64.7	275	230	ė
11	44	34	47.1	63.9	295	٥.,٥	9
11	45	43	46.5	62.6	289		10
9	46	42	44.2		201		11
1.0	44	41	44.1	59.5	203		12
10	45	41	43.7	60.5	310		13
9	46	40	43.4	62.4			10
8	49	42	42.7	61.9	326		15
8	52	43	42.3	61.5	138		16
8	50	41	42.3	60.5	157		17
8	60	43	42.1	61.3	332		18
9	45	43	41.0	59.3	230		19
7	49	46	40.3	61.1	171		50
8	46	44	39,9	58.3	246	4.00	21
7	47	34	39.8	57.8	172	140	55
Q	38	44	39.5	59.2	236	188	23
9	40	36	39.0	53.5	201	100	24
7	44	41	38.2	58.1	208		25
9	38	46	37.5	56.9	131 89		26
7	46	45	37.5	56.9	5 <u>5</u> 8	144	27
5	50	37	37.3	51,9	73	1	28
6	49	39	36.3	53.9 53.7	137		29
5	45	46	34.3 34.2	48.0	276	209	30
5	43	37 33	34.2	49.9	191	1 35	31
7	36 43	43	33.7	52.6	176	•	32
5	63	33	33.5	44.1	89		33
4	48	48	33.4	54.8	52	11	34
5	40	32	32.5	49.1	113	0	35
	51	40	31.6	51.4	32		36
3 5	42	44	30.9	50.1	50		37
7	49	40	30.6	50.4	94		38
3	41	41	30.3	48.5	50		39
5	49	40	30.2	49.6	126		40
3	47	41	30.0	49.9	92		41
	40	40	29.9	48.9	168	132	42
3	43	34	29.1	46.3	70	29	43
4	38	33	28.3	45.4	87		44
	48	35	28.3	39.9	19		45
2	46	41	28.1	46.3	55		46
3 3	50	33	28.1	38.7	62	35	47
7		43	26.9	44.3	70		48
3 3	42	46	26.4	46.8	106		49
	36	45	26.3	46.5	75		50
u		31	59.5	36.6	54		51
2		38	26.1	45.3	106		52
3		39	26.1	45.0	30		53
4		40	25.7	41.5	124		54
3 2	41	40	25.1	44.5	10		55
7	35	34	25.1	42.7	117		56
3	17	46	24.9	46.1	105		57

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1	CASTLE DOME AZD	3	49	40	30.2	49.6	126
ż	GTLA HEND PLAIN AZD	3	47	41	30.0	40.9	92
27	GOLD FLAT NVD	4	40	40	29.9	48.9	168
33	TIKABOO NVD	3	43	34	29.1	46.3	70
28	INDIAN SPRING NVD	4	38	33	28.3	45.4	87
59	THREF LAKES NVH	2	48	35	28.3	39.9	19
36	ANTELOPE NVB	3	46	41	28.1	46.3	55
26	FRENCHMAN FLAT NVD	3	50	33	28.1	38.7	62
56	SARCOBATUS FLAT NVA	3	42	43	26.9	44.3	70
46	JAKES NVB	3	42	46	26.4	46.8	106
38	CAVE NVS	4	36	45	26.3	46.5	75
23	BUCKBOARD MESA NVD	5	47	31	26.2	36.6	54
5	KING AZD	3	46	38	26.1	45.3	106
10	PALOMAS PLAIN AZD	и	36	39	26,1	45.0	30
63	JORNADA NEL MUFRTO N NMD	3	41	40	25.7	41.5	124
30	PAHUTE MESA NVD	5	41	40	25.1	44.5	10
32	THREE LAKES NVD	3	35	34	25.1	42.7	117
58	STONEWALL FLAT NVB	3	37	46	24.9	46.1	105
67	TULAROSA BASIN F NMD	3	44	41	24.7	43.8	100
65	TULARDSA BASTN N NMD	5	57	45	24.1	42.3	58
68	JORNADA DEL MUERTO NMB	3	33	41	24.0	39.8	112
31	STONEWALL FLAT NVD	3	37	44	23.2	43.8	56
47	LITTLE FISH LAKE NVB	1	44	39	22.3	38.5	24
8	MOHAVE WASH AZD	5	44	44	55.5	43.2	21
62	HUECO BOLSON NMD	4	42	45	22.1	42.8	7
4	INDIAN WASH AZD	5	45	42	21.4	41.4	42
64	JORNADA DEL MUERTO S NMD	1	40	41	20.2	38.3	47
50	MOHAVE WASH AZB	0	0	0	• 0	• 0	0
1.3	VEKUL AZD	0	n	0	• 0	• 0	0

*RANKING SCORES

P = AREAL RANKING SCORE (A+B)

Q = GEDTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)

R = CULTURAL RANKING SCORE (C+H+M+N+O)

S = COMBINED AREAL AND GEOTECHNICAL SCOPE (P+Q WITH WEIGHTING FACTORS)

T = FINAL SCORE (P+R+R WEIGHTING FACTORS)

U = SUITABLE VALLEY AREA

V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS

W = NUMERICAL RANK



.46	35	28.3	39.9	19		45	
46	41	28.1	46.3	55		46	
50	33	28.1	38,7	62	35	47	
42	43	26.9	44.3	70		48	
42	46	26.4	46.8	106		49	
36	45	. 56.3	46.5	75		50	
47	31	56.5	36.6	54		51	
46	38	26.1	45.3	106		52	
36	39	26,1	45.0	30		53	
41	40	25.7	41.5	124		54	
41	40	25.1	44.5	10		55	
35	34	25.1	42.7	117		56	
37	46	24.9	46.1	105		57	
44	41	24.7	43.8	100		58	-
57	45	24.1	42.3	58		59	
33	41	24.0	39.8	112		60	
37	44	23.2	43.8	56		61	
44	39	22.3	38.5	24		62	
44	44	55.5	43.2	21		63	
42	45	22.1	42.8	7		64	
45	42	21.4	41.4	42		65	
40	41	20.2	38.3	47		66	DDAET
0	0	. 0	. 0	0		67	DRAFT
0	0	. 0	• 0	0		68	SEP 3 1976

ITH WEIGHTING FACTORS)

ERNESS AREAS

RANKING BASED ON COLUMN S (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION

APPENDIX

DEPARTMENT OF THE AIR FORCE - SAMSO

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UGRO NATIONAL, INC.

APPENDIX E

RANKING TABLES

(Excluding Wildlife Ranges)

	VALLEY						RA	NKIN	G FA	CTOR	S.*			
ND		A	8	С	Ŋ	E	F	G	Н	I	J	K	L	4
1	CASTLE DOME AZD	5	1	8	4	5	2	5	10	9	Ģ	6	9	. 4
	GILA BEND PLAIN AZD	5	i	7	11	3	5	5	10	9	6	8	10	2
	GROWLER/CHILDS AZD	4	5	6	4	3	خ	5	10	8	7	6	ģ	4
	TNDTAN WASH AZD	1	1	A	5	10	5	5	10	B	1	4	7	6
	KING AZD	2	1	6	u	6	Ś	5	10	7	7	6	6	4
	LA POSA PLAIN AZO	1	5	6	4	3	3	5	10	. 10	6	10	10	6
	LECHUGUILLA DESERT AZD	3	4	6	4	3	5	5	10	10	5	8	10	4
	MOHAVE WASH AZD	1	1	6	4	10	4	5	10	9	1	5	9	10
	MOHAWK/TULE AZD	5	4	6	Ц	3	5	4	10	9	7	6	9	4
	PALIMAS PLAIN AZD	1	3	7	5	3	1	4	10	8	3	2	10	4
	SAN CRISTOBAL AZO	4	3	6	4	3	5	5	10	8	7	6	9	4
	SENTINEL PLAIN AZD	4	2	7	4	3	2	4	10	8	7	6	10	6
	VEKOL AZD	0	0	0	0	0	0	0	0	0	0	0	10	0
	YUMA DESERT AZD	2	1 5	6	4	6	5	3	10	9	7	8	10	4
	BUTLER AZB CACTUS PLAIN AZB	3	5	9	5	3 7	5	U Z	8	7 4	•	2,	10	10
	HARQUAHALA PLAIN AZR	7	6 6	10	5	3 3	1 5	3	გ 5	7	7 8	6	8	10
	LA POSA PLAIN AZR	5	4	10	ר 5	3	0	 4	9	6	9	5 5	9	10
	MC MULLEN AZB	э 4	6	10		5	5	4	5	9	Ŗ	5	9	10
	MOHAVE MASH AZB	0	0	0	0	0	 0	0	0	0	0.	0	0	0
	PALOMAS/HYDER AZB	6	5	10	5	3	1	4	7	8	9	ڎ	9	10
	RANEGRAS PLAIN AZB	7	10	10	5 5	3	i	4	6	7	9	ź	8	10
	BUCKBOARD MESA NVD	i	1	8	ú	ź	6	5	1	10	6	4	q	Ş
	CACTUS FLAT NVD	4	5	9	4	Š	Š	6	5	å	6	جَ	7	S
	EMIGRANT NVD	3	3	7	3	Ô	5	Š	8	8	5	Š	Á	4
	FRENCHMAN FLAT NVD	ĺ	Š	10	4	5	6	5	1	8	3	10	9	2
	GOLD FLAT NVD	3	1	8	3	ڃ	0	6	10	8	7	6	8	4
	INDIAN SPRING NVD	5	1	9	3	0	1	6	10	7	5	10	6	2
	KAWICH NVD-	0	0	0	0	0	0	Ú	0	0	0	0	0	0
	PAHUTE MESA NVD	1	1	8	4	S	1	5	10	9	1	10	9	5
	STONEWALL FLAT NVD	1	2	8	3	S	5	6	10	8	3	5	8	6
	THREE LAKES NVD	5	1	8	3	0	1	6	10	8	5	4	8	4
	TIKABON NVD	1	1	8	3	0	2	5	10	9	5	10	9	6
	YUCCA FLAT NVD	и	0	10	6	10	10	6	1	8	6	10	7	2
	AMARGUSA DESERT NVB	3	1	10	5 5	3	5	3	8	9	6	8	9	10
	ANTELOPE NVB BIG SMOKY NVB	1 5	? 3	8 10	5	3 3	4 5	3 5	9 8	8 8	9 8	2	10	10
	CAVE NAB) 1	3	8	4	5	5	5	9	6	7	8	10	10
	CLAYTON-ALKALI SPRING NVB	5	5	10	5	3	3	5	9	9	7	4	10	10
	COYOTE SPRIKANE SPR NVB	4	1	10	5	Š	2	3	5	9	á	4	10	10
	DELAMAR/PAHROC NVB	3	ģ	10	ų.	3	Ş	3	10	9	7	6	9	10
42	DRY LAKE/MULESHOE NVR	6	3	10	5	3	Š	4	10	8	6	10	8	10
	GARDEN/COAL NVR	6	S	8	5	3	. 4	4	10	8	8	10	7	10
44	HOT CREEK NVB	3	5	10	5	3	4	4	9	8	9	8	10	6
	INDIAN SPRING NVR	1	4	10	4	Š	1	4	10	9	9	10	9	10
	JAKES NVB	Š	1	10	5	3	2	3	10	6	A	10	5	10
	LITTLE FISH LAKE NVB	1	0	10	5	5	4	5	7	8	8	5	10	6
	LITTLE SMOKY NVB	6	3	8	5	3	4	4	10	8	8 9	4	10	10
	MONITOR NVB	1	4	8	5	2	3	4	8	8 7	9	? 4	8	10
50	NEWARK NVB PAHRANAGAT NVB	1	4	8 8	4	3	3 3	5	9	9	6	8	10	10
	PENOYER NVB	3	6	о 8	5	3	5	4	9	10	٩٠	4	10	10
	RAILROAD NVB	5	6	8	5	3	4	5	8	9	•	4	10	18
	RAILROAD/REVEILLE NVR	5	5	8		3	3	4	10	8	Ą	A	10	ě
	RALSTON NVB	5	5	10	4	3	4	3	10	8	9	10	9	10
	SARCOBATUS FLAT NVB	٠	į	10	4	٤	3	4	7	ě	9	Š	10	10
	STONE CARIN NVR	3	4	10	5	3	3	3	10	9	9	A	9	8
58	STONEWALL FLAT NVB	5	1	8	5	Ž	Š	ű	10	Ä	6	2	8	19
	THREE LAKES NVS	1				خمَد							سخمد	

LDL	IFE	RANG	ES									
1 FA	CTOR	S*							RAN	KING	SCORE	S**
H	Ī	J	K	L	М,	N	O	P	G	R	S	T
	_	_	,	_	n		. ^	,	410	0.6	70 3	"0 4
10	9	9	6	9	- 4	8	10	3	49 47	40	30.2	49.6
10	9	6	8	10	4	10	10	3	44	41	30.0	49.9
10	8	7	6	9 7	4	10 8	10	2 9	45	40 42	42.2	62.0 41.4
10	8 7	17		6	6 4	8	10	3	46	38	21.4	45.3
10	10	6	6 10	10	6	8	10	3	51	40	31.6	51.4
10	10	5	8	10	4	10	10	7	47	40	39 A	59.6
10	9	1	Š	9	10	8	10	á	44	44	22.2	43.2
10	9	7	6	9	4	10	10	9	44	40	43.6	63.4
10	8	3	2	10	4	10	å	. 4	36	39	26,1	45.0
10	8	7	6	ģ	4	10	8	7	44	38	37 8	56.6
10	8	7	6	10	6	.8	10	6	44	41	36.0	55.9
Ŏ	Õ	Ó	ő	'n	Ŏ	Õ	0	Õ	0	0	0	. 0
10	ģ	7	Ř	10	4	10	10	3	49	40	30.6	50.4
8	7	9	Š	10	10	8	8	9	45	43	41.0	59.3
8	4	7	6	9	10	8	10	9	38	46	37,5	56.9
5	7	8	Ş	8	10		. 8	13	41	41	49.7	65.1
9	6	9	5	9	10	6	10	9	38	44	39.5	59.2
5	9	8	ž	9	10	Ä	8	10	44	41	44.1	59.5
ō	Ó	0	n	Ó	0	0	ō	0	n	Ó	.0	.0
7	Ą	9	ج	9	10	Š	8	11	41	43	46.5	63.9
6	7	9	2	8	10	6	8	17	39	40	58.7	74.5
1	10	6	4	ĝ	S	10	10	2	47	31	26.2	36.6
5	8	6	2	7	S	10	10	9	40	36	39.0	53,5
8	8	5	S	8	4	10	B	6	36	37	31.5	48.4
1	8	3	10	9	2	10	10	. 3	50	33	28,1	38.7
10	B	7	6	8	4	10	8	4	40	40	29.9	48.9
10	7	5	10	6	S	5	10	3	38	33	26,1	43.2
0	0	0	0	0	0	0	0	0	0	0	, 0	, 0
10	9	1	10	9	2	10	10	S	41	40	25.1	44.5
10	8	3	2	8	6	10	10	3	37	44	23.2	43.8
10	8	5	4	8	4	2	10	3	35	34	25.1	42.7
10	9	5	10	9	6	10	8	5	43	42	26,9	46.5
1	8	6	10	7	2	10	10	4	63	33	33,5	44.1
8	9	6	8	9	10	8	10	4	45	46	32.1	51.5
9	8	9	4	10	10	8	6	3	46	41	1,85	46.3
8	Ŗ	8	S	10	10	8	8	8	46	44	39,9	58,3
9	6	7	8	5	10	8	10	4	36	45	26.3	46,5
9	9	7	4	10	10	8	8	7	46	45	37,5	56,9
5	9	8	4	10	10	10	6	5	43	41	34.2	49.2
10	9	7	6	9	10	8 8	5 4	5 9	43	43 42	33.7	6,58
10	8	6 8	10 10	8 7	10	8	6	8	49	45	42 7	61.9
9	8 8	9	8	10	6	8	10	8	52	43	42.7	61.5
10	9	9	10	9	10	10	10	Š	48	50	35.6	57,6
10	6	Ŕ	10	5	10	8	8	3	42	46	35.6 26.4 22.3	46.8
7	Ř	8	Š	10	6	8	8	1	44	39	25.3	38,5
7	8	Ř	4	10	6	8	8	9	46	40	45.4	62.4
8	B	ģ	2	9	10	8	10	5	42	44	30.9	50.1
9	7	9	4	8	10	8	6	5	41	41	30.3	48.5
9	9	6	8	10	10	6	6	5	49	39	34.1	51.7
9	10	.9	4	10	10	8	6	9	50	41	44.5	62,7
8	9	9	4	10	8	6	6	11	49	36	48.9	64.9
10	8	B	8	10	8	8	10	10	48	44	46,9	67,5
10	8	9	10	9	10	8	10	10	50	48	46.9	69.3
7	8	9	5	10	10	8	8	3	42	43	26,9	44.3
10	9	9	8	9	8	8	10	7	49	46	40.3	61.1
10	8	6	S	Ŗ	10	8	10	3	37	46	24,9	46,1
1	10	10	4	10	10	6	10	Ş	48	35	28.3	39,9

53	RAILROAD NVB	-	-	8.	- 5	3	4	5	8	9	9	4	100
54	RAILROAD/REVEILLE NVB	5	5	8	4	3	3	4	10	8	Ŗ	R	10
55	RALSTON NVB	5	5	10	Ц	3	4	3	10	8	9	10	9
56	SARCOBATUS FLAT NVB	1	S	10	4	2	3	4	7	8	9	2	10
57	STONE CARIN NVR	3	4	10	5	3	3	3	1.0	9	9	8	9
58	STONEWALL FLAT NVB	5	1	8	5	2	S	4	10	8	6	5	Ŗ
59	THREE LAKES NVB	1	1	8	5	5	5	5	1	10	10	4	1 0
60	TIKABOD NVB	3	1	Я	5	5	3	3	5	9	9	10	9
61	WHITE RIVER NVR	4	6	10	5	3	4	5	7	8	9	2	9
62	HUECO BOLSON NMD	1	3	9	5	10	10	3	10	6	3	4	1
63	JORNADA DEL MUERTO N NMD	S	1	1.0	5	8	0	3	6	8	5	2	10
64	JORNADA DEL MUERTO S NMD	1	0	9	ü	1	7	3	8	7	6	2	10
65	TULAROSA BASIN N NMD	1	1	10	6	10	6	10	, 8	7	В	2	Ŗ
66	TULAROSA BASIN S NMD	6	2	10	6	. <u>1</u> 0	4	10	Ģ	7	10	4	9
67	TULAROSA HASIN E NMD	2	1	9	6	10	3	2	1.0	7	S	6	8
68	JORNADA DEL MUERTO HMB	5	1	10	4	S	1	2	5	7	7	2	Ą

WEIGHTING FACTORS

2.7 2.2 .1 .1 .1 .1 1.0 1.0 .5 .5 .5

*RANKING FACTORS

A = SUITABLE VALLEY AREA

B = SUITABLE CONTIGUOUS AREA

C = OWNERSHIP AND CONTROL (AMOUNT AND QUALITY)

D = GEOLOGY AND SOILS ENGINEERING (AMOUNT AND QUALITY)

E = DEPTH TO ROCK (AMOUNT AND QUALITY)

F = DEPTH IN WATER (AMOUNT AND QUALITY)

G = SURFACE HYDROLOGY (AMDUNT AND QUALITY)

H = DWNERSHIP AND CONTROL (FAVORABILITY)

I = GEOLOGY AND SOILS ENGINEERING (FAVORABILITY)

J = DEPTH TO ROCK (FAVORABILITY)

K = DEPTH TO WATER (FAVORABILITY)

L = SURFACE HYDROLOGY (FAVORABILITY)

M = POTENTIAL IMPACT (MILITARY)

N = POTENTIAL IMPACT (CTVJLIAN)

O = DISTANCE TO SUPPORT FACILITIES (MILITARY AND CIVILIAN)

**RANKING

P = AREAL RANKING

R = GEOTECHNICAL

R = CULTURAL RANK S = AREAL + GEDTE

T = FINAL SCORE 6

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	4	7	8	9	5	10	10	8	8	3	42	43	26,9	44.3
3	3	10	9	9	д	9	8	8	10	7	49	46	40.3	61.1
S	4	10	8	6	5	Ŗ	10	8	1 C	3	37	46	24.9	46,1
5	S	1	10	10	4	10	10	6	10	2	48	35	28.3	39,9
3	3	5	9	9	10	9	10	10	8	4	50	41	34.6	50,4
4	5	7	8	9	2	9	10	6	8	10	45	41	43.7	60.5
0	3	10	6	3	4	1	8	8	10	4	42	45	22.1	42.8
0	3	6	8	5	5	10	8	Ą	8	3	41	40	25.7	41.5
7	3	8	7	6	5	10	6	8	10	1	40	41	50.5	34,3
6	10	, 8	7	8	2	₿	6	8	10	2	57	42	24.1	42.3
4	10	9	7	10	4	9	6	8	10	8	60	43	42.1	61.3
3	5	10	7	2	6	8	6	B	8	3	44	41	24.7	43.8
1	5	5	7	7	2	Ą	8	8	10	3	33	41	24.0	39,8

IGHTING FACTORS

1 .1 1.0 1.0 .5 .5 .5 .3 .5 .5

**RANKING SCORES

P = AREAL RANKING SCORE (4+B)

Q = GEOTECHNICAL RANKING SCORE (D+F+F+G+I+J+K+L)

R = CULTURAL RANKING SCORE (C+H+M+N+O)

S = AREAL + GEDTECHNICAL SCORE (P+Q WITH WEIGHTING)

T = FINAL SCORE (P+Q+R WITH WEIGHTING)

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MATRIX ANALYSIS (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION

APPENDIX

DEPARTMENT OF THE AIR FORCE - SAMSO

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UGRO NATIONAL, INC.

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RANKING BASED ON AREAL FACTORS (P)

\	ALLEY			R		SCORE	5 *
ND.	NAME	Р	0	R	S	T	U
5 5	RANEGRAS PLATN AZB	17	39	40	58.7	- <u>-</u> .	356
17	HARQUAHALA PLATN AZB	1 3	41	41	49.7	65.1	352
21	PALOMAS/HYDER AZB	11	41	43	46.5	63,9	295
53	RAILRHAD NVB	11	49	36	48,9	64.9	243
19	MC MULLEN AZA	10	44	41	44.1	59.5	201
54	HAILROAD/REVEILLE NVR	10	48	44	46.9	67.5	247
55	RALSTIN NVB	10	50	48	47.9	69.3	238
61	WHITE RIVER NVB	10	45	41	43.7	60,5	203
15	BUTLER AZB	9	45	43	41.0	59.3	230
24	CACTUS FLAT NVD	9	40	36	39.0	53.5	201
16	CACTUS PLAIN AZB	9	38	46	37.5	56.9	131
42	DRY LAKE/MULESHOE NVB	9	46	42	44.2	62.6	289
3	GROWLER/CHILDS AZD	9	44	40	42.2	62.0	413
18	LA POSA PLAIN AZB	9	38	44	39.5	59.2	236
48	LITTLE SMOKY NVB	9	46	40	43.4	62.4	310
9	MOHAWK/TULE AZD	9	44	40	43.6	63.4	521
52	PENOYER NVB		50	41	44.5		157
37	RIG SMOKY NVR	8	46	44	39,9		246
43	GARDEN/COAL NVB	8	49	42	42.7		326
44	HOT CREEK NVB	8	52	43	42.3	61.5	138
66	TULAROSA BASIN S NMD	Ÿ	60	43	42.1	61.3	332
39	CLAYTON-ALKALI SPRING NVB	7 7	46	45	37.5	56.9	89 173
7	LECHUGUILLA DESFRT AZD	7	47 44	40	39.8	59.6	172
11	SAN CRISTOBAL AZD	7	49	38 46	37.8	56.6	275 171
57 20	STONE CARTN NVB			37	40.3	61.1	191
25	FMIGRANT NVD	6 6	36 44	41	36.0	55.9	808
12 40	SENTINEL PLAIN AZD	5	43	41	34.2	49.2	276
_	COYOTE SPRIKANE SPRINVB DELAMARIPAHROCINVB	5 5	43	43	33.7	52.6	176
41 45	INDIAN SPRING NVB	5	48	50	35,6	57,6	52
49	MUNITUR NAB		42	44	30,9	50.1	50
50	NEWARK NVB	5	41	41	30.3	48.5	50
51	PAHRANAGAT NVR	., 5	49	39	34.1	51.7	73
35	AMARGOSA DESERT NVB	4	45	46	32.1	51,5	137
3 <i>9</i>	CAVE NVB	4	36	45	26.3	46.5	75
27	GOLD FLAT NVD	й	40	40			
62	HUECO ROLSON NMD	4	42	45	22.1	42.8	7
10	PALOMAS PLAIN AZD	ų.	36	39	26.1	45.0	30
60	TIKABOO NVB	4	50	41	34.6	50.4	229
34	YUCCA FLAT NVD	ti.	63	33	33,5	44.1	89
36	ANTELOPE NVB	3	46	41	28.1	46.3	55
1	CASTLE DOME AZD	3	49	40	30.2	49.6	126
26	FRENCHMAN FLAT NVD	\$	50	33	1.85	38.7	62
۲	GILA BEND PLAIN AZD	3	47	41	30.0	49.9	92
88	INDIAN SPRING NVD	3	38	33	26.1	43.2	87
46	JAKES NVR	3	42	46	26.4	46.8	106
63	JURNADA DEL MUERTO N NMD	3	41	40	25.7	41.5	124
68	JORNADA DEL MUERTO NHB	3	33	41	54.0	39.8	112
5	KING AZD	3	46	38	26,1	45.3	106
6	LA POSA PLAIN AZD	3	51	40	31.6	51.4	32
56	SARCHBATUS FLAT NVB	3	42	43	56.0	44.3	70
58	STONEWALL FLAT NVP	3	37	46	24.9	46.1	105
31	STONEWALL FLAT NVD	3	37	44	23,2	43.8	56
32	THREE LAKES NVD	3	35	34	25.1	42.7	117
67	TULAROSA HASIN E NMD	3	44	41	24.7	43.8	100
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94
23	BUCKBOARD MESA NVD	2	47	31	26.8	36.6	54
4	INDIAN WASH AZD	5	45	42	21.4	41.4	42
	- CONTRACTOR OF THE CONTRACTOR		A.A.		222	41.2	21.

REAL FACTORS (P)

38 35 26.1 43.2 87 45 42 46 26.4 46.8 106 46 41 40 25.7 41.5 124 47 33 41 24.0 39.8 112 48 46 38 26.1 45.3 106 49 51 40 31.6 51.4 32 50 42 43 26.9 44.3 70 51 37 46 24.9 46.1 105 52 37 44 23.2 43.8 56 53 35 34 25.1 42.7 117 54 44 41 24.7 43.8 100 55 49 40 30.6 50.4 94 56							
39							
41	C	R	S	T	U	V	W
41							
41	39	40	58.7	74.5	356		1
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48 44 46.9 67.5 247 6 40 41 43.7 60.5 203 8 45 41 43.7 60.5 203 8 40 36 39.0 53.5 201 188 10 38 46 37.5 56.9 131 11 46 42 44.2 62.6 289 12 40 42.2 62.0 413 220 13 38 44 39.5 59.2 236 14 40 42.2 62.0 413 220 13 38 44 39.5 59.2 236 14 44 40 43.6 62.4 310 15 44 40 43.6 63.4 521 271 16 50 41 44.5 62.7 157 17 17 40 42.7 61.9 326 19 22 47 40 39.9 61.7 172 140 <t< th=""><td>49</td><td>36</td><td></td><td></td><td>243</td><td></td><td>4</td></t<>	49	36			243		4
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50 41 34.6 50.4 229 144 39 63 33 33.5 44.1 89 40 46 41 28.1 46.3 55 41 49 40 30.2 49.6 126 42 50 33 28.1 38.7 62 35 43 47 41 30.0 49.9 92 44 38 33 26.1 43.2 87 45 42 46 26.4 46.8 106 46 41 40 25.7 41.5 124 47 33 71 24.0 39.8 112 48 46 38 26.1 45.3 106 49 51 40 31.6 51.4 32 50 42 43 26.9 44.3 70 51 37 46 24.9 46.1 105 52 37 44 23.2 43.8 56 53 35 <td>42</td> <td>45</td> <td>22.1</td> <td></td> <td></td> <td></td> <td></td>	42	45	22.1				
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41 40 25.7 41.5 124 47 33 41 24.0 39.8 112 48 46 38 26.1 45.3 106 49 51 40 31.6 51.4 32 50 42 43 26.9 44.3 70 51 37 46 24.9 46.1 105 52 37 44 23.2 43.8 56 53 35 34 25.1 42.7 117 54 44 41 24.7 43.8 100 55 49 40 30.6 50.4 94 56	38			43.2			
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49 40 30.6 50.4 94 56	3 5	_					
	44						
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- B	ST MOTOR WASHINGTON	making province processes,		150-15-15-15-15-15-15-15-15-15-15-15-15-15-			
56	SARCHBATUS FLAT NVR	3	42	43	56.4	44,3	70
58	STONEWALL FLAT NVP	3	37	46	24.9	46.1	105
31	STONEWALL FLAT NVD	3	37	44	23.2	43.8	56
32	THREE LAKES NVD	3	35	34	25.1	42.7	117
67	TULARDSA HASIN E NMD	3	44	41	24.7	43.8	100
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94
23	RUCKROARD MESA NVD	2	47	31	26.2	36.6	54
4	INDIAN WASH AZD	5	45	42	21.4	41.4	42
Ŗ	MAHAVE WASH AZD	2	44	44	55.5	43.2	21
30	PAHUTE MESA NVD	2	41	40	25.1	44.5	10
59	THREE LAKES NVB	?	48	35	28.3	39.9	19
33	TIKAHOO NVD	7	43	42	26.9	46.5	70
65	TULAROSA HASIN N NMD	2	57	42	24.1	42.3	58
64	JORNADA DEL MUERTO S NMD	1	40	41	5,05	38.3	47
47	LITTLE FISH LAKE NVB	1	44	39	22.3	38.5	24
59	KAWICH NVD	0	0	0	. 0	. 0	113
20	MOHAVE WASH AZB	0	0	n	.0	. 0	0
13	VEKOL AZD	0	0	0	. 0	.0	0

*RANKING SCORES

- P = AREAL RANKING SCORF (A+B)
- Q = GEOTFCHNICAL RANKING SCORE (D+F+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+0)
- S = COMBINED AREAL AND GEOTFCHNICAL SCORE (P+D WITH WEIGHTING FACTORS)
- T = FINAL SCORF (P+0+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SUITABLE ARFA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- W = NUMERICAL RANK

DEI

	31.6	51.4	32		34	
3	56.9	44.3	70		5!	
6	24.9	46.1	105		52	
4	23,2	43.8	56		53	
14	25.1	42.7	117		54	
1	24.7	43.8	100		55	
0	30.6	50.4	94		56	
31	56.5	36.6	54		57	
5	21.4	41.4	42		58	
4	25.5	43.2	21		59	
0	25.1	44.5	10		60	
35	28.3	39.9	19		61	
15	26.9	46.5	70	29	62	
S	24.1	42.3	58		63	
1	50.5	38.3	47		64	
39	22.3	38.5	24		65	
0	. 0	. 0	113	0	66	
0	. 0	• 0	0		67	
0	. 0	. 0	0		68	
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DRAFT

SEP 3 1976

GHTING FACTORS)

AREAS

RANKING BASED ON CLUUMN P (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION DEPARTMENT OF THE AIR FORCE - SAMSO APPENDIX

E-2

UGRO NATIONAL, INC.

RANKING RASED ON GEOTECHNICAL FACTORS (9)

\	/ALLEY			F	RANKTNO	SCORE	S.	
NO.	NAME	P	Ç	R	S	T	U	
34	YUCCA FLAT NVD	<i>h</i>	4.7	77	4 1 '6			
66	TULAROSA BASTN S NMD	4 8	63 60	33 43	33.5		89	
65	TULAROSA HASIN N NMD	5	57	42	42.1	61.3	332	
44	HOT CREEK NVB	8	52	43	42.3		58	
6	LA POSA PLAIN AZD	3	51	110		51.4	138 32	
5.6	FRENCHMAN FLAT NVD	3	50	33	28.1		95 25	
52	PENOYER NVH	9	50	41	44.5		157	
55	RALSTON NVA	10	50	48	47.9		238	
60	TIKABON NVR	. 4	50	41	34.6		229	11
1	CASTLE DOME AZD	3	49	40	30.2		126	• •
43	GARDEN/COAL NVR	8	49	42	42.7		326	
51	PAHRANAGAT NVH	5	49	39	34.1		73	
53	RAILROAD NVB	11	49	36	48.9		243	
57	STOME CARIN NVR	7	49	46		61.1	171	
14	YUMA DESERT AZD	3	49	40	30.6		94	
45	INDIAN SPRING NVR	5	48	50	35.6		52	1
54	RAILROAD/REVETILE NVB	10	48	44	46.9		247	,
59	THREE LAKES NVB	2	48	35	28.3		19	
23	PUCKBOARD MESA NVD	5	47	31	26.2	36.6	54	
5	GILA BEND PLAIN AZD	3	47	41	30.0	49.9	92	
7	LECHUGUILLA DESFRT AZD	7	47	40	39.8		172	14
36	ANTELOPE NVB	3	46	41	28.1		55	• •
37	RIG SMOKY NVR	Ŗ	46	44	39.9		246	
39	CLAYTON-ALKALI SPRING NVB	7	46		37.5	56.9	89	
47	DRY LAKE/MULESHOE NVB	9	46	42	44.2		289	
5	KING AZD	3	46	38	26,1	45.3	106	
48	LITTLE SMAKY NVB	9	46	40	43.4		310	
35	AMARGOSA DESERT NVB	4	45	46	32.1		137	
15	BUTLER A7B	9	45	43	41.0		230	
4	INDIAN WASH AZD	2	45	42	21.4	41.4	42	
61	WHITE RIVER NVB	10	45	41	43.7		203	
3	GROWLER/CHILDS AZD	9	44	40	42.2		413	2.
47	LITTLE FISH LAKE NVR	1	44	39		38.5	24	
19	MC MULLEN AZR	10	44	41	44.1		201	
Я 9	MOHAWK/TULF AZD	9 2	44	44 40	22.2	43.2	21	31
11	SAN CRISTORAL AZD			38	43.6 37.8	63,4 56,6	521 376	2; 2;
12	SENTINEL PLAIN AZD	7	4 4 4 4	30 41	36.0	55.9	275 208	٤.
67	TULAROSA BASTN F NMD	6 3	44	41	24.7	43.8	100	
40	COYOTE SPRIKANE SPRINVB	5	43	41	34.2	49.2	276	2(
41	DELAMARZPAHROC NVA	5	43	43	33.7	52.6	176	Ψ,
33	TIKAHOO NVD	Š	43	π5 	26.9	46.5	70	į
62	HUFCO BOLSON NMO	č. 4	42	45	22,1	42.8	7	•
46	JAKES NVB	3	42	46	26.4	46.8	106	
49	MONITOR NVB	5	42	44	30.9	50.1	50	
56	SARCHBATUS FLAT NVB	3	42	43	26.9	44.3	70	
17	HARQUAHALA PLAIN AZB	13	41	41	49.7	65.1	352	
63	JORNADA DEL MUERTO N NMD	3	41	40	25.7	41.5	124	
50	NEWARK NVB	5	41	41	30.3	48.5	50	
30	PAHUTE MESA NVD	ž	41	40	25.1	44.5	10	
21	PALIMAS/HYDER AZB	11	41	43	46.5	63.9	295	
24	CACTUS FLAT NVD	• •	40	36	39.0	53.5	201	18
27	GOLD FLAT NVD	4	40	40	29.9	48.9	168	12
64	JORNADA DEL MUERTO S NMD	1	40	41	20.2	38.3	47	
55	RANEGRAS PLAIN AZR	17	39	40	5A.7	74.5	356	
16	CACTUS PLATM AZR	9	38	. 46	37:5	56.9	131	
85	INDIAN SPRING NVD	3	38	33	26,1	43.2	87	4
	LA BOSA SLAIM ASS							

	A NIV TRIC	econr	٥.		
R	ANKING S	SCORE T	5 ∗ U	v	W
,	G	7	U	V	×
	_				
33	33.5	44.1	89		1
43	42.1	61.3	335		2
42	24.1	42.3	58		3
43	42.3	61.5	138		4
33	28.1	51.4 38.7	32 32	35	5 6
41	44.5	62.7	157	33	7
48	47.9	69.3	238		8
41	34.6	50.4	229	144	9
40	30.2	49.6	126		10
42	42.7	61.9	326		11
39	34.1	51.7	73		12
36	48.9	64.9	243		13
46	40.3	61.1	171		14
40	30.6	50.4	94		15
50 44	35.6	57.6	52	1 1	16
35	46.9 28.3	67.5	247 19		17
31	56.5	39 ₄ 9 36 ₄ 6	54		18 19
41	30.0	49.9	92		50
40	39.8	59.6	172	140	21
41	28.1	46.3	55	• • •	ŞŞ
44	39,9	58.3	246		23
45	37.5	56.9	89		24
42	44.2	62.6	289		25
38	26.1	45.3	106		56
40	43.4	62.4	310		27
46	32.1	51.5	137		85
43 42	41.0	59.3	230 42		29 30
41	43.7	60.5	203		31
40	42.2	62.0	413	220	32
39	22,3	38.5	24		33
41	44.1	59.5	201		34
44	55.5	43.2	21		35
40	43.6	63.4	521	271	36
38	37.8	56.6	275	230	37
41	36.0	55,9	208		38 39
41	24.7 34.2	43.8 49.2	100 276	209	40
43	33.7	52.6	176		41
u2	26.9	46.5	70	29	42
45	1.55	42.8	7	-	43
46	26.4	46.8	106		44
44	30.9	50,1	5 0		45
43	26.9	44.3	70		46
41	49.7	65.1	352		47
40	25.7	41.5	124		48 49
41	30,3 25,1	48.5	50 10		50
40 43	46.5	44,5	595		51
36	39.0	53.5	201	188	52
40	29.9	48.9	168	132	53
41	50.5	38.3	47		54
40	58.7	74.5	356		55
		-	The state of the s		

63	VURNAUL DIEL MUSKING IN NITH	3	41	40	25.7	41.5	12
50	NEWARK NVB	5	41	41	30.3	48.5	5
30	PAHUTE MESA NVD	2	41	40	25.1	44.5	1 4
21	PALOMAS/HYDER AZB	11	41	43	46.5	63.9	29 9
24	CACTUS FLAT NVD	9	40	36	39.0	53.5	201
27	GOLD FLAT NVD	4	40	αO	29.9	48.9	168
64	JORNADA DEL MUERTO S NMD	1	40	41	20.2	38.3	47
55	RANEGRAS PLAIN AZB	17	39	40	58.7	74.5	356
16	CACTUS PLAIM AZB	9	38	. 46	37.5	56.9	131
85	INDIAN SPRING NVD	3	38	33	26.1	43.2	87
18	LA POSA PLAIN AZB	9	38	44	39.5	59.2	236
31	STONEWALL FLAT NVD	3	37	44	23.2	43.8	56
58	STONEWALL FLAT NVB	3	37	46	24.9	46.1	105
38	CAVE NVB	4	36	45	26.3	46.5	75
25	FMIGRANT NVD	6	36	37	31.5	48.4	191
10	PALISMAS PLAIN AZD	4	36	39	26.1	45.0	30
32	THREE LAKES NVD	3	35	34	25.1	42.7	117
68	JORNADA DEL MUERTO NMB	3	33	41	24.0	39.8	112
29	KAWICH NVD	0	0	0	• 0	• 0	113
20	MOHAVE WASH AZR	0	0	0	• 0	. 0	0
13	VEKOL AZD	0	0	0	• 0	• 0	0

*RANKING SCORES

P = AREAL RANKING SCORE (A+B)

Q = GEOTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)

R = CULTURAL RANKING SCORE (C+H+M+N+O)

S = COMPINED AREAL AND GEOTECHNICAL SCORE (P+0 WITH WEIGHTING FACTORS)

T = FINAL SCORE (P+Q+R WEIGHTING FACTORS)

U = SUITABLE VALLEY AREA
V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS

W = NUMERICAL RANK

41	49.7	65,1	352		47	
40	25.7	41.5	124		48	
41	30.3	48.5	50		49	
40	25.1	44.5	10		50	
43	46.5	63.9	295		51	
36	39.0	53.5	201	188	52	
40	29.9	48.9	168	132	53	
41	20.2	38.3	47		54	
40	58.7	74.5	356		55	
. 46	37.5	56.9	131		56	
33	26.1	43.2	87		57	
44	39.5	59.2	236		58	
44	23.2	43.8	56		59	
46	24.9	46.1	105		60	
45	26.3	46.5	75		61	
37	31.5	48.4	191	135	65	
39	26.1	45.0	30		63	
34	25.1	42.7	117		64	
41	24.0	39.8	112		65	
Ō	.0	. 0	113	0	66	
0	.0	.0	0		67	
0	.0	. 0	0		68	

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SEP 3 1076

WEIGHTING FACTORS)

SS AREAS

RANKING BASED ON COLUMN Q (EXCLUDING WILDLIFE RANGES)

WX SITING INVESTIGATION

APPENDIX

DEPARTMENT OF THE AIR FORCE - SAMSO

E-3

UGRO NATIONAL, INC.

11

RANKING BASED ON CULTURAL FACTORS (R)

\	ALLEY			R	RANKING	SCORE	S*	
NO.	NAME	Р	ŋ	R	S	Ť	U	٧
45	JNDIAN SPRING NVB	5	48	50	35,6	57.6	52	1 :
55	RALSTIN NVR	10	5.0	48	47.9	69.3	238	- '
35	AMARGOSA DESERT NVB	4	45	46	32.1	51.5	137	
16	CACTUS PLAIN AZB	9	38	46	37.5	56.9	1 3 1	
46	JAKES NVH	3	42	46	26.4	46.8	106	
57	STONE CARIN NVR	7	49	46	40.3	61.1	171	
58	STONEWALL FLAT NVR	3	37	46	24.9	46.1	105	
38	CAVE NVB	<u>u</u>	36	45	26.3	46.5	75	
39	CLAYTON-ALKALI SPRING NVB	7 "	46	45	37.5	56.9	89	
65	HUECO BOLSON NMD	4	42	45	22.1	42.8	7	
37	BIG SMOKY NVR	8	46	44	39.9	58.3	246	
18	LA POSA PLAIN AZB	9	38	44	39.5	59.2	236	
8 40	MOHAVE WASH AZD	2 5	44 42	44	20.5	43.2	21 50	
49 54	MONITOR NVB RATEROADZREVEILLE NVB	10	42	44	30.9 46.9	50.1 67.5	247	
31	STONEWALL FLAT NVD	3	37	44	23.2	43.8	56	
31 15	BUTLER AZB	9	45	43	41.0	59.3	230	
41	DELAMAR/PAHROC HVB	5	43	43	33.7	52.6	176	
40	HOT CREEK NVB	8	52	43	42.3	61.5	138	
21	PALOMASZHYDER AZB	11	41	43	46.5	63.9	295	
56	SARCDRATUS FLAT NVR	3	42	43	26.9	44.3	70	
66	TULAROSA BASIN S NMD	8	60	43	42.1	61.3	332	
42	DRY LAKE/MULESHOF NVA	9	46	42	44.2	62.6	289	
43	GARDEN/COAL NVR	8	49	42	42.7	61.9	326	
4	INDIAN WASH AZD	2	45	42	21.4	41.4	42	
33	TIKABOO NVO	2	43	42	26.9	46.5	70	2
65	TULAROSA BASIN N NHD	2	57	45	24.1	42.3	58	
36	ANTELOPE NVB	3	46	41	28.1	46.3	55	- -
40	CHYOTE SPRIKANE SPR NVB	5	43	41	34.2	49.2	276	50
2	GILA REND PLAIN AZD	3 13	47 41	4 1 4 1	30.0 49.7	49.9 65.1	92 5 2 8	
17 64	HAPQUAHALA PLAIN AZR JURNADA DEL MUERTO S NMD	1.5	40	41	20.2	38.3	47	
68	JORNADA DEL MUERTO NMB	3	33	41	24.0	39.8	112	
19	MC MULLEN AZB	10	44	41	44.1	59.5	201	
50	NEWARK NVB	• • • • • •	41	41	30.3	48.5	50	
52	PENOYER NVB	9	50	41	44.5	62.7	157	
12	SENTINEL PLAIN AZD	6	44	41	36.0	55.9	805	
60	TIKABUD NVB	4	50	41	34.6	50.4	229	144
67	TULAROSA BASTN F NMD	3	44	41	24.7	43.8	100	
61	WHITE RIVER NVB	10	45	41	43.7	60.5	203	
1	CASTLE DOME AZD	3	49	40	30.2	49.6	126	4 -9 -
27	GOLD FLAT NVD	4	40	40	20.0	48.9	168	138 220
3	GROWLER/CHILDS AZD	9	44	40	42.2	62.0	413 124	261
63	JORNADA DEL MUERTO N NMO	3	41	40	25,7	41.5 51.4	35	
6	LA POSA PLAIN AZO	3 7	51	40	31.6 39.8	59.6	172	140
7 // a	LECHUGUILLA DESFRT AZD LITTLE SMOKY NVP	9	47	40	43.4	62.4	310	1 44 (
48	MOHAWK/TULF AZD	9	46	40 40	43.4	63.4	521	271
30	PAHUTE MESA NVD	5	41	40	25.1	44.5	10	٠, ١
55 20	RANEGRAS PLATN AZB	17	39	40	58.7	74.5	356	
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94	
47	LITTLE FISH LAKE NVB	i	44	39	22.3	3A.5	24	
51	PAHRANAGAT NVB	5	49	39	34.1	51.7	73	
10	PALOMAS PLAIN AZD	ŭ	36	39	26.1	45.0	30	
5	KING AZD	3	46	38	26.1	45.3	106	
11	SAN CRISTOBAL AZD	ž	44	38	37.8	56.6	275	230
25	EMIGRANT NVD	6	36	37	31.5	48.4	191	13:
24	CACTUS FLAT NVD	9	40	36	19.0	53.5	201	14

R	ANKING	SCORES	3 *		
R	S	Ţ	U	V	W
			~ ~		
50	35.6	57.6	52	1 1	1
48	47.9	69.3	238		2
46	32.1	51.5	137		3 4
46	37.5	56.9	131		5
46 46	26.4	46.8	106 171		6
46	24.9	61.1	105		7
45	26.3	46,5	75		8
45	37.5	56.9	89		ĝ
45	22.1	42.8	7		10
44	39.9	58.3	246		11
44	39,5	59.2	236		12
44	55.5	43.2	21		13
44	30.9	50.1	50		14
44	46.9	67.5	247		15
44	23.2	43.8	56		16
43	41.0	59.3	230		17
43	33.7	52.6	176		18
43	42,3	61.5	138		19
43	46.5	63.9	295		50
43	26.9	44.3	70		21
43	42.1	61.3	332		55
42	44.2	62.6	289		23
42	42.7	61.9	326		24
42	21.4	41.4	42	30	25 26
42	26.9	46.5	70 50	29	26 27
42 41	24.1	42.3	58 55		28
41	34.2	49.2	276	209	29
A 1	30.0	49.9	92	1.07	30
41	49.7	65.1	352		31
41	20.2	38.3	47		32
41	24.0	39.8	112		33
41	44.1	59.5	201		34
41	30.3	48.5	50		35
41	44.5	62.7	157		36
4 1	36.0	55.9	208		37
41	34.6	50.4	559	144	38
41	24.7	43.8	100		39
41	43.7	60.5	203		40
40	30.2	49.6	126	173	41
40	20.9	48.9	168	132	42 43
0.0	42.2	.62.0	413	550	44.
40	25,7	41.5	124 32		45
40	31.6	51.4 59.6	172	140	46
40 40	39.8 43.4	62.4	310	140	47
40	43.6	63.4	521	271	48
40	25.1	44.5	10	- / (49
40	58.7	74.5	356		50
#0	30.6	50.4	94		51
39	22.3	38.5	24		52
39	34.1	51.7	73		53
39	26.1	45.0	30		54
38	26.1	45.3	106		55
38	37.8	56.6	275	230	56
57	31.5	48.4	191	135	57

				40			10
55	RANEGRAS PLAIN AZB	17	39	40	58.7	74.5	356
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94
47	LITTLE FISH LAKE NVB	1	44	39	22.3	38.5	24
51	PAHRANAGAT NVB	5	49	39	34.1	51.7	73
10	PALOMAS PLAIN AZD	4	36	39	26.1	45.0	30
5	KING AZD	3	46	38	26.1	45.3	106
11	SAN CRISTORAL AZD	7	44	38	37.8	56.6	275
25	EMIGRANT NVD	6	36	37	31.5	48.4	191
24	CACTUS FLAT NVD	9	40	36	39.0	53.5	201
53	RAILROAD NVR	11	49	36	48.9	64.9	243
59	THREE LAKES NVA	5	48	35	28.3	39.9	19
32	THREE LAKES NVD	3	35	34	25.1	42.7	117
26	FRENCHMAN FLAT NVD	3	50	33	28,1	38.7	68
28	INDIAN SPRING NVD	3	38	33	26.1	43.2	87
34	YUCCA FLAT NVD	4	63	33	33.5	44.1	89
23	BUCKBOARD MESA NVD	٤	47	31	26.2	36.6	54
29	KAWICH NVD	0	0	0	. 0	. 0	113
20	MOHAVE WASH AZB	0	0	0	• 0	. 0	0
13	VEKOL AZD	0	0	0	. 0	.0	0

*RANKING SCORES

- P = AREAL RANKING SCORE (A+B)
- Q = GEOTECHNICAL RANKING SCORE (D+E+F+G+J+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+O)
- S = COMBINED AREAL AND GEOTECHNICAL SCORE (P+D WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+Q+R WFIGHTING FACTORS)
- U = SUTTABLE VALLEY AREA
- V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- W = NUMERICAL RANK

DEPART

	25.7	41.5	124		44 .	and the second s
40	31.6	51.4	32		45	
40	39.8	59.6	172	140	46	
40	43.4	62.4	310		47	
40	43.6	63.4	521	271	4 B	
40	25.1	44.5	10		49	
40	58,7	74.5	356		50	
40	30.6	50.4	94		51	
39	22.3	38.5	24		52	
39	34.1	51.7	73		53	
39	26.1	45.0	30		54	
38	26.1	45.3	106		55	
38	37.8	56.6	275	230	56	
37	31.5	48.4	101	135	57	
36	39.0	53.5	201	188	58	•
36	48.9	64.9	243		59	
35	28.3	39.9	19		60	
34	25.1	42.7	117		61	•
33	28,1	38.7	68	35	65	
33	26.1	43.2	87		63	
33	33.5	44.1	89		64	
31	26.2	36.6	54		65	
0	.0	.0	113	0	66	DDAET
0	• 0	• 0	0		67	UKALI
0	• 0	.0	0		68	SED 0 1070
				•		SEP 3 1976

GHTING FACTORS

ARFAS

RANKING BASED ON COLUMN R (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION

DEPARTMENT OF THE AIR FORCE - SAMSO

E-4

UGRO NATIONAL, INC.

1

V	ALLFY			F	PANKTNG	SCORE	3*	
NO.	NAME	Þ	Q	R	S	T	IJ	V
5 2	RANFGPAS PLAIN AZB	17	39	40	58.7	74.5	356	
17	HARQUAHALA PLAIN AZR	13	41	41	49.7	65.1	352	
53	RAILROAD NVB	11	49	36	48.9	64.9	243	
55	RALSTON NVR	10	50	48	47.9	69.3	238	
54	RAILROAD/REVEILLE NVB	10	48	<i>u</i> 4	46.9	67.5	247	
21	PALOMAS/HYDER AZB	1 1	41	43	46.5	63,9	295	
52	PENDYER NVB	9	50	41	44.5	62.7	157	
42	DRY LAKE/MULESHOE NVR	9	46	42	44.2	62.6	289	
19	MC MULLEN AZB	10	. 44	41	44.1	59.5	201	
61	WHITE RIVER NVB	10	45	41	43.7	60.5	203	
9	MOHAWK/TULE AZD	9	44	40	43.6	63.4	521	271
48	LITTLE SMOKY NVP	9	46	40	43.4	62.4	310	
43	GARDEN/CHAL NVB	8	49	42	42.7	61.9	326	
44	HOT CREEK NVB	8	52	43	42.3	61.5	138	224
3	GROWLER/CHILDS AZD	9	44	40	42.2	62.0	413	220
66	TULAROSA BASIN S NMD	8	60	43	42.1	61.3	332	
15	BUTLER AZB	9	45 49	43 46	41.0	59.3 61.1	230 171	
57	STONE CARTN NVB	/ 8	46	46	39.9	58.3	246	
37	PIG SMOKY NVB	7	47	40	39.8	59.6	172	140
7	LECHUGUILLA DESERT AZD LA POSA PLAIN AZB	9	38	44	39.5	59.2	236	
18 24	CACTUS FLAT NVD	ģ	40	36	39.0	53.5	201	188
11	SAN CRISTOBAL AZD	7	44	38	37.8	56.6	275	230
16	CACTUS PLAIN AZB	9	38	46	37.5	56.9	131	-
39	CLAYTON-ALKALI SPRING NVB	7	46	45	37.5	56.9	89	
12	SENTINEL PLAIN AZD	6	44	41	36.0	55,9	808	
45	INDIAN SPRING NVB	5	48	50	35.6	57.6	52	11
60	TIKABOD NVB	4	50	41	34.6	50.4	559	144
40	COYOTE SPRIKANE SPR NVB	5	43	41	34.2	49.2	276	209
51	PAHRANAGAT NVR	5	49	39	34.1	51.7	73	
41	DELAMAR/PAHROC NVB	5	43	43	33.7	52.6	176	
34	YUCCA FLAT NVD	4	63	33	33.5	44.1	89	
35	AMARGOSA DESERT NVB	4	45	46	32.1	51.5	137 32	
6	LA POSA PLATN AZD	3	51 36	40 37	31.6 31.5	51.4 48.4	191	1 35
25	EMIGRANT NVD	6	42	44			50	
49	MONITOR NVB	3	49	40	30,6	50.4	94	
14	YUMA DESERT AZD	5	41	41	30.3	48.5	50	
50	NEWARK NVB CASTLE DOME AZD	3	49	40	30.2	49.6	126	
1 2	GILA BEND PLAIN AZD	3	47	41	30.0	49.9	92	
27	GOLD FLAT NVD	ű	40	40	29.9	48.9	168	132
59	THREE LAKES NVB	Š	48	35	28.3	39.9	19	
36	ANTELOPE NVB	3	46	41	28.1	46.3	55	
56	FRENCHMAN FLAT NVD	3	50	33	28.1	38.7	68	35
56	SARCOHATUS FLAT NVR	3	42	43	26.9	44.3	70	
33	TIKARDO NVD	5	43	42	26.9	46.5	70	29
46	JAKES NVR	3	42	46	26.4	46.8	106	
38	CAVE NVB	4	36	45	26.3	46.5	75 5/1	
23	BUCKBOARD MESA NVD	5	47	31	26.2	36.6	54 87	
28	INDIAN SPRING NVD	3	3A	33 38	26.1	43.2 45.3	106	
5	KING AZD	3	46	.50 39	26.1 26.1	45.0	30	
10	PALIMAS PLAIN AZD	3	36 41	40	25.7	41.5	124	
63	JORNADA DEL MUERTO N'NMO PAHUTE MESA NVO	5	41	40	25.1	44.5	10	
30		3	35	34	25,1	42.7	117	
32	THREE LAKES NVD STONEWALL FLAT NVR	3	37 37	46	24.9	46.1	105	
58 67	TULAROSA BASIN E NMD	3	44	41	24.7	43.8	100	
65	TULAROSA BASIN N NMD	S	57	42	24.1	42.3	58	1
93	INCRUISE DESTA M MEN	<u> </u>	7/	76				

(3.4	MINE NE	A110 G1	CHECHN	TOME !	AC 1000	(0)	
			ANKTNG	SCORE	Q.		
P	()	R	S	T	جر ال	v	W
•	•	',	J	,	1.7	•	"
17	39	40	58.7	74.5	356		1
13	41	<i>a</i> 1	49.7	65.1	352		S
11	49	36	48.9	64.9	243		3
10	50	48	47.9	69.3	238		4
10	48	44	46.9	67.5	247		5
11	41	43	46.5	63.9	295		6
9	50	41	44.5	62.7	157		7
10	· 46	42	44.2	62.6	289		8 9
10	45	41 41	43.7	59.5 60.5	201 203		10
9	44	40	43.6	63.4	521	271	11
ģ	46	40	43.4	62.4	310	C 1 1	12
á	49	42	42.7	61.9	326		13
8	52	43	42.3	61.5	138		14
9	44	40	42.2	62.0	413	220	15
8	60	43	42.1	61.3	332		16
9	45	43	41.0	59.3	230		17
7	49	46	40.3	61.1	171		18
8	46	44	39.9	58.3	246		19
7	47	40	39.8	59.6	172	140	50
9	38	44	39.5	59.2	236		21
9	40	36	39.0	53.5	201	188	55
7	44	38	37.8	56.6	275	230	23
9	38	46	37.5 37.5	56.9	131		24
7	46	45	3/.5	56.9	89		25
5	44 48	41 50	36.0 35.6	55,9 57,6	208 52	1J.	26 27
4	50	41	34.6	50.4	229	144	28
5	43	41	34.2	49.2	276	209	29
5	49	39	34.1	51.7	73		30
5	43	43	33.7	52.6	176		31
4	63	33	33.5	44.1	89		32
4	45	46	32.1	51.5	1.37		33
3	51	40	31.6	51.4	35		34
6	36	37	31.5	48.4	191	135	35
5	42	44	30.9	50.1	50		36
3	49	40	30.6	50.4	94		37
5 3	41 49	41	30.3 30.2	48.5 49.6	50 1 2 6		38 39
3	47	41	30.0	49.9	92		40
	40	40	29.9	48.9	168	132	41
5	48	35	28.3	39,9	19	• •	42
5	46	41	1.85	46.3	55		43
3	50	33	28.1	38.7	65	35	44
3	42	43	26,9	44.3	70		45
₽	43	42	26.9	46.5	70	29	46
P	42	46	26.4	46.8	106		47
TOTAL STATES	36	45	26.3	46.5	75 64		48
E	47	31	26.2	36.6	54		49
	38	33	26.1	43,2	87 106		50 51
ľ	46 36	38 39	26.1 26.1	45.3 45.0	30		52
	.30 41	40	25.7	41.5	124		53
5	41	40	25.1	44.5	10		54
E	35	34	25.1	42.7	117		55
	37	46	24.9	46.1	105		56

}

				40	CO , 4	~ab, n	100
37	CAVE NVR	4	36	45	26.3	46.5	75
23	BUCKBOARD MESA NVD	2	47	31	26.2	36.6	54
85	INDIAN SPRING NVD	3	38	33	26.1	43.2	87
5	KING AZO	3	46	38	26.1	45.3	106
10	PALMMAS PLAIN AZD	4	36	39	26.1	45.0	30
63	JORNADA DEL MUERTO N NMD	3	41	40	25.7	41.5	124
30	PAHUTE MESA NVD	2	41	40	25.1	44.5	10
32	THREE LAKES NVD	3	35	34	25.1	42.7	117
5 A	STONEWALL FLAT NVR -	3	37	46	24.9	46.1	105
67	TULAROSA BASIN E NMD	,3	44	41	24.7	43.8	100
65	TULARUSA BASIN N NMD	5	57	42	24.1	42.3	58
68	JORNADA DEL MUFRTO NMB	3	33	41	24.0	39.8	112
31	STOMEWALL FLAT NVD	3	37	44	53.2	43.8	56
47	LITTLE FISH LAKE NVR	1	44	59	22.3	38,5	24
A	MIJHAVE WASH AZD	2	44	44	55.5	43.2	21
62	HUECO BOLSON NMD	4	45	45	1.55	42.8	7
4	INDIAN WASH AZD	8	45	ح 4	21.4	41.4	42
64	JORNADA DEL MUERTO S NMD	1	40	41	20.2	38.3	47
29	KAWICH NVD	0	0	0	• 0	. 0	113
20	MOHAVE WASH AZB	0	0	0	• 0	• 0	0
13	VEKOL AZO	0	0	0	• 0	. 0	0

*PANKING SCORES

P = AREAL RANKING SCOPE (4+R)

D = GEOTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)

R = CULTURAL RANKING SCORE (C+H+M+N+O)

3 = COMBINED AREAL AND GEOTECHNICAL SCURE (P+R WITH WEIGHTING FACTORS)

T = FINAL SCORE (P+R+R WEIGHTING FACTORS)

U = SUITABLE VALLEY AREA

V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS

W = NUMERICAL RANK



26.4 46.8 106 47 26.3 46.5 75 48 26.2 36.6 54 49 26.1 43.2 87 50 26.1 45.3 106 51 26.1 45.0 30 52 25.7 41.5 124 53 25.1 44.5 10 54 25.1 42.7 117 55 24.9 46.1 105 56 24.7 43.8 100 57 24.1 42.3 58 58
26.2 36.6 54 49 26.1 43.2 87 50 26.1 45.3 106 51 26.1 45.0 30 52 25.7 41.5 124 53 25.1 44.5 10 54 25.1 42.7 117 55 24.9 46.1 105 56 24.7 43.8 100 57 24.1 42.3 58
26.2 36.6 54 49 26.1 43.2 87 50 26.1 45.3 106 51 26.1 45.0 30 52 25.7 41.5 124 53 25.1 44.5 10 54 25.1 42.7 117 55 24.9 46.1 105 56 24.7 43.8 100 57 24.1 42.3 58 58
26.1 43.2 87 50 26.1 45.3 106 51 26.1 45.0 30 52 25.7 41.5 124 53 25.1 44.5 10 54 25.1 42.7 117 55 24.9 46.1 105 56 24.7 43.8 100 57 24.1 42.3 58 58
26.1 45.3 106 51 26.1 45.0 30 52 25.7 41.5 124 53 25.1 44.5 10 54 25.1 42.7 117 55 24.9 46.1 105 56 24.7 43.8 100 57 24.1 42.3 58 58
26.1 45.0 30 52 25.7 41.5 124 53 25.1 44.5 10 54 25.1 42.7 117 55 24.9 46.1 105 56 24.7 43.8 100 57 24.1 42.3 58 58
25.7 41.5 124 53 25.1 44.5 10 54 25.1 42.7 117 55 24.9 46.1 105 56 24.7 43.8 100 57 24.1 42.3 58 58
25.1 44.5 10 54 25.1 42.7 117 55 24.9 46.1 105 56 24.7 43.8 100 57 24.1 42.3 58 58
25.1 42.7 117 55 24.9 46.1 105 56 24.7 43.8 100 57 24.1 42.3 58 58
24.9 46.1 105 56 24.7 43.8 100 57 24.1 42.3 58 58
24.7 43.8 100 57 24.1 42.3 58 58
24.1 42.3 58 58
24.0 39.8 112 59
23.2 43.8 56 60
22.3 38.5 24 61
22.2 43.2 21 62
22.1 42.8 7 63
21.4 41.4 42 64
20.2 38.3 47 65
.0 .0 113 0 66
.0 .0 0 67
.0 .0 0 68

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TING FACTORS)

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RANKING BASED ON COLUMN S (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

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UGRO NATIONAL, INC.

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APPENDIX F

MATRIX ANALYSIS AND RANKING TABLES

FOR DOD LANDS

APPENDIX F - MATRIX ANALYSIS - DOD VALLEY INCLUDING WILDLIFE RANGES

VALLEY	VALLEY RAUKING FACTO						CTOR	ŪRS∗					
NO. NAME	Δ	В	۲	b	E.	F	G	H	I	J	K	L	
1 CASTLE DOME AZO	ح	1	д	4	5	ڌ	5	1 0	9	9	6	9	
2 GILA BEND PLAIN AZD	5	1	7	4	3	S	5	1.0	9	6	A	1.0	
3 GROWLER/CHILDS AZD	۶	7	h	4	3	Š	5	10	A	7	6	9	
4 INDIAN VASH AZO	1	1	S4	5	1.0	5	5	1.0	Ą	1	Ц	7	
5 KING AZD	2	1	4	4	6	5	5	1.0	7	7	4	6	
6 LA POSA PLAIM AZD	1	1	6	/1	3	3	5	10	1.0	- 6	1.0	10	1
7 LECHUGUILLA DESERT AZD	3	4	6	u	3	2	5	10	10	5	А	1 2	1
A MUHAVE WASH AZD	1	;	6	4	1.0	Ц	5	1.0	9	1	2	9	11
4 MUHAWKITULE AIN	10	ь	6	41	3	5	4	10	9	7	6	Ģ	- 1
10 PALOMAS PLAIN AZD	1	1	7	ς,	3	1	/4	10	₽	3	5	10	- 1
11 SAN CRISTORAL AZD	5	6	6	4	3	۶	5	10	8	7	6	9	1
12 SENTINEL PLATH AZD	/4	3	7	4	3	7	4	10	Ą	7	6	1.0	•
13 VEKUL AZD	0	1	ņ	0	0	O	0	0	Λ	0	0	0	(
14 YUMA DESERT AZD	5	1	4	4	6	5	3	10	9	7	A	10	t
23 BUCKROARD MESA NVD	1	0	8	1	3	6	5	1	10	6	4	9	į
24 CACTUS FLAT NVD	4	5	9	4	Ŝ	5	6	5	Я	6	ج	7	į
25 EMIGRANT NVD	4	n	7	3	Ö	5	چ	Ą	A	5	5	8	4
26 FRENCHMAN FLAT HVD	1	1	1.0	4	5	6	5	1	А	3	10	9	2
27 GOLD FLAT NVD	3	1	A	3	ڎ	ń	6	1.0	8	7	6	R	4
28 INDIAN SPRING NVD	خ	1	9	7	n	1	6	10	7	5	10	6	2
29 KAWTCH NVD	Š	ń	A	3	ج	n	5	10	0	6	6	0	4
30 PAHUTE MESA NVD	1	1	ĸ	4	Š	1	5	10	9	1	10	9	Z
31 STONEWALL FLAT NVD	j	1	я	3	ڿ	5	6	10	Я	3	ž	Ą	6
32 THREE LAKES NVD	ź	1	Я	3	Ô	1	6	1.0	А	5	4	Ą	4
33 TIKABOD NVD	1	ج	P	ź	Ó	ڿ	5	10	9	5	10	Q	6
34 YUCCA FLAT NVD	4	0	1.0	ń	10	10	6	1	B	6	10	7	Z
62 HUECH BOLSON NMO	1	3	9	5	10	10	3	10	6	3	4	1	8
63 JORNADA DEL MUERTO N NAD	خ	1	1.0	5	Ŗ	10	3	6	8	5	Š	10	ē
64 JORNADA DEL MUERTO S NMD	1	Ô	9	ú	1	7	3	Ä	7	ě	خ	10	é
65 TULAROSA BASIM N NMD	í	1	10	6	10	6	10	8	7	8	ڄ	A	6
66 TULAROSA HASIN S NMD	6	ځ	10	6	10	4	10	9	7	10	ŭ	9	ě
67 TULAROSA BASIN E NMD	5	1	9	6	10	3	ڎۜ	10	7	ڿٙ	6	Ŕ	ě
OL COCHUMN MADIA (* 14.0)	<u>_</u>		7	٠,	19		•	, "	,	۲.	J	.,	~

WEIGHTING FACTORS

2.7 2.2 .1 .1 .1 .1 .1 1.0 1.0 .5 .5 .5 .3

*RANKING FACTORS

A = SUITABLE VALLEY AREA

R = SUITABLE CONTIGUOUS AREA

C = OWNERSHIP AND CONTROL (AMOUNT AND QUALITY)

D = GENLINGY AND SHILS ENGINEERING (AMOUNT AND QUALITY)

E = DEPTH TO ROCK (AMOUNT AND QUALITY)

F = DEPTH IN WATER (AMOUNT AND DUALITY)

G = SURFACE HYDROLOGY (AMOUNT AMO QUALITY)

H = OWNERSHIP AND CONTROL (FAVORABILITY)

I = GEOLUGY AND SOILS ENGINFERING (FAVORABILITY)

J = DEPTH ID BOCK (FAVORABILITY)

K = DEPTH ID WATER (FAVORABILITY)

L = SURFACE MYDROLOGY (FAVORABILITY)

M = POTENTIAL IMPACT (MILITAPY)

N = POTENTIAL IMPACT (CTVILIAD)

O = DISTANCE TO SUPPORT FACILITIES (MILITARY AND CIVILIAN)

**RANKING S

P = AREAL RANKING S

D = GENTECHNICAL RA

R = CULTURAL RANKIN

S = AREAL + GEDTECH

T = FINAL SCORE (P+

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SEP 3 1976

F - MATRIX ANALYSIS - DOD VALLEYS INCLUDING WILDLIFE RANGES

		PK I F		CTOR	S*							RAN	KING	SCORE	S**
£	F	G	н	I	J	K	L	М	N	O	Р	G	R	S	Ť
5	Š	5	10	9	9	6	9	4	8	10	3	49	40	30.2	49.6
3	Š	5	10	9	6	В	1.0	4	10	10	3	47	41	30.0	49.9
3	Ś	5	10	А	7	6	9	4	4	10	15	44	34	57.4	75.4
30	5,	5	1.0	8	1	4	7	6	8	1.0	2	45	42	21.4	41.4
6	5	5	1.0	7	7	6	- 6	4	B	10	3	46	34	26.1	45.3
3	3	5	10	10	6	1.0	1.0	6	8	10	2	51	40	29.4	49,2
3	5	5	1.0	10	5	A	10	4	u	10	7	47	34	39.8	57.8
10	Ü	5	10	9	j	5	9	10	8	1.0	2	44	44	22,2	43,2
3	5	4	1.0	9	7	6	9	4	4	10	16	44	34	61.5	79.5
3	1	4	10	Ŗ	3	5	10	4	10	Я	5	36	39	21.7	40.6
3	2	5	10	8	7	6	9	4	6	A	11	44	34	47.1	64.7
3	2	4	10	8	7	6	10	6	В	10	7	44	41	38,2	58.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	, 0	. 0
6	5	3	10	9	7	8	10	и	10	10	3	49	40	30,6	50.4
3	6	5	1	10	6	4	9	5	10	1.0	1	47	31	24.0	34,4
ج	5	6	5	8	6	ج	7	2	10	10	6	40	36	32.4	46.9
0	5	5	é	Я	5	5	8	4	6	8	4	36	33	27.6	43,3
5	6	5	1	А	3	10	9	۶	10	10	5	50	33	25.9	36.5
جَ	ń	6	10	8	7	6	8	4	10	8	4	40	40	29.9	48.9
0	1	6	10	7	5	10	6	2	5	10	3	38	33	26.1	43,2
2	ò	5	10	ġ	6	6	ò	4	٦	8	5	40	32	25.9	42.5
5	1	5	10	9	1	10	9	2	10	10	ž	41	40	25.1	44.5
خ	5	6	10	8	3	5	5	6	10	10	ج	37	44	21,0	41.6
0	ĺ	6	10	Ä	5	4	8	4	۾	10	3	35	34	25,1	42.7
0	ڋ	5	10	9	ś	10	9	6	ج	8	$\tilde{3}$	43	34	29.1	46.3
10	10	6	1	Ŕ	6	10	7	Ž	10	10	4	63	3.3	33.5	44.1
10	10	3	10	6	3	4	1	8	Ą	10	4	42	45	1.55	42.8
Ą	16	3	6	8	5	Ş	10	8	8	8	3	41	40	25.7	41.5
	7	3	9 8	7	6	ج ج	10	6	8	10	1	40	41	50.5	38,3
1		10	8	7	8	5	, n B	6	A A	10	Ş	57	42	24.1	42.3
10	6		9	7			6 ت	_	B		8	60	43	112 1	61.3
10	4	10			10	4		6		10	3			42.1	
10	3	7	10	7	ج	6	8	6	8	8	5	44	41	24.7	43,8

WEIGHTING FACTORS

.1 .1 .1 1.0 1.0 .5 .5 .5 .3 .3 .5

**RANKING SCORES

P = AREAL RANKING SCORF (A+B)

D = GENTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)

R = CULTURAL RANKING SCORE (C+H+M+N+O)

S = ARFAL + GEOTECHNICAL SCORE (P+R WITH WEIGHTING)

T = FINAL SCORE (P+Q+R WITH WEIGHTING)

DRAFT SEP 3 1976 MATRIX ANALYSIS DOD VALLEYS (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

UGRO NATIONAL, INC.

CIVILIAN)

ALTTY)

RANKING BASED ON AREAL FACTORS (P)

\	ALLEY			RANKING SCHR D R S T		SCORE	S*
Mr).	HAME	P	Q	P	\$	T	G.
9	MOHANK/TULE AZD	16	44	34	61.5	79,5	581
3	GROWLER/CHIEDS A7D	15	44	34	57.4	75.4	413
11	SAN CRISTOBAL AZD	11	44	34	47.1	64.7	275
66	TULAROSA BASIN S NMO	Ř	6.0	03	42.1	61.3	332
7	LECHUGUILLA DESERT 470	7	47	34	39.8	57.8	172
12	SENTINEL PLATE AZD	7	44	41	38.2	58.1	808
24	CACTUS FLAT NVO	6	40	36	32.4	46.9	201
25	EMIGRANT NVD	4	36	3.3	27.6	43.3	191
21	GOLD FLAT NVD	.41	40	40	29.9	48.9	168
68	HUECO BOLSON NOO	u	42	45	22.1	42.8	7
3/1	YUCCA FLAT MVD	Ü	63	33	33.5	44.1	39
1	CASTLE DOME AZD	3	49	40	30.2	49.6	126
2	SILA BEND PLAIN AZD	3	07	41	30.0	49.9	92
85	INDIAN SPRING NVD	3	38	33	26.1	43.2	87
63	JURNADA DEL MUFETO PI MAD	3	£1.1	40	25.7	41.5	124
5	KING AZD	3	46	38	26,1	45.3	106
32	THREE LAKES NVD	3	35	34	25,1	42.7	117
33	Τ[ΚΔΡΟΩ ΝΥΟ	3	43	34	29.1	46.3	70
67	TULAROSA BASIN E MMD	3	44	41	24.7	43.A	100
14	YUMA DESERT AZD	3	49	40	30.6	50.4	9/1
26	FRENCHMAN FLAT HVD	5	50	33	25,9	36.5	62
4	INDIAN MASH AZD	2	45	42	21.4	41.4	45
20	KAWICH NVD	5	40	32	25.9	42.5	113
6	LA POSA PLAIN AZO	5	51	40	29.4	99.2	32
8	MINAVE WASH AZD	5	44	44	25.2	43.2	21
30	PAHUTE MESA NVD	5	41	40	25.1	44.5	10
1.0	PALITMAS PLAIN AZD	5	36	39	21.7	40.6	30
31	STONEWALL FLAT NVD	5	37	44	21.0	41.6	56
65	THLARDSA RASTN N NMD	S	57	45	24.1	42.3	58
23	BUCKBRAPD MESA NVD	1	47	31	24.0	34.4	54
64	JORNADA DEL MUEETO S NMD	1	40	41	20.2	38.3	47
1.3	VEXUL AZD	0	ŋ	0	• 0	• 0	0

*RANKING SCORES

- P = AREAL RANKING SCORE (A+R)
- R = GEOTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+0)
- S = COMBINED AREAL AND GENTECHNICAL SCORE (P+0 WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+Q+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- M = NUMERICAL RANK



	R	ANKING	SCORE	S*		
a	R	S	T	U	٧	W
	9.11		30 5		29.	
44	34	61.5	79.5	521	271	1
44	34	57.4	75.4	413	550	5
44	34	47.1	64.7	275	230	3
60	43	42.1	61.3	332		4
47	34	39.8	57.8	172	140	5
44	41	38.2	58.1	808		6
40	36	32.4	46.9	201	188	7
36	3.3	27.6	43.3	191	1.35	8
40	110	59.9	48.9	168	135	9
42	45	22.1	45.8	7		10
63	33	33.5	44.1	д9		11
49	40	30.2	49.6	156		12
07	41	30.0	49.9	95		13
38	33	26.1	43.2	87		14
41	40	25,7	41.5	124		15
46	38	26.1	45.3	106		16
35	34	25,1	42.7	117		17
43	34	29.1	46.3	70	29	18
44	41	24.7	43.8	100		19
49	4.0	30.6	50.4	94		50
50	33	25,9	36.5	62	35	21
45	42	21.4	41.4	11.5		5.5
40	32	25.9	42.5	113	0	23
51	40	29.4	9.2	32		24
44	44	25.2	43.2	21		25
41	40	25.1	44.5	10		26
36	39	21.7	40.6	30		27
37	44	21.0	41.6	56		28
57	42	24.1	42.3	58		29
47	31	24.0	34.4	54		30
40	41	50.5	38.3	47		31
0	0	.0	0	0		35
,	v	• .,	• .,	•		

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NITH WEIGHTING FACTORS)

FRNESS AHEAS

DOD RANKING BASED ON COLUMN P (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

⁰ F-

UGRO NATIONAL, INC.

RANKING BASED ON GEOTECHNICAL FACTORS (Q)

V	ALLEY			F	SANKING	SCORE	S*	
NO.	NAME	Þ	Û	R	S	T	11	V
			. •					
34	YUCCA FLAT NVD	4	6.3	33	33.5	44.1	89	
66	TULARISA HASTN S NMD	8	60	43	42.1	61.3	332	
45	TULAROSA RASTN N NMD	5	57	42	24.1	42.3	58	
- 6	LA POSA PLATN AZD	5	51	40	29,4	49.2	32	
56	FRENCHMAN FLAT NVO	Ş	50	33	25.9	36.5	62	35
1	CASTLE DOME AZD	3	49	40	30.2	49.6	126	
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94	
23	BUCKBOARD MESA NVD	1	47	31	24.0	34,4	54	
>	GTLA BEND PLATH AZD	3	47	41	30.0	49.9	56	
7	LECHUGUILLA DESERT AZD	7	47	34	39.8	57.8	172	140
5	KING AZO	3	46	38	26.1	45.3	106	
4	INDIAN WASH AZD	۶	45	4 S	21.4	41.4	42	
3	GROWLER/CHILDS AZD	15	44	34	57.4	75.4	413	22 0
Ŗ	MUHAVE WASH AVA	8.	44	44	55.5	43.2	21	
9	MOHANK/TULE AZD	16	44	34	61.5	79.5	521	271
11	SAN CRISTOHAL AZD	11	114	34	47.1	64.7	275	230
12	SENTINEL PLATE AZD	7	44	41	38.2	58.1	208	
67	TULAROSA RASIN E NMO	3	44	#1	24.7	43.8	100	
\$3	TIKABOO NYO	3	43	34	29.1	46.3	70	54
62	HUECO ROLSON NMD	4	42	45	22.1	42.8	7	
63	JORNADA DEL MUERTO N. MMD	3	41	40	25.7	41.5	124	
30	PAHUTE MESA NVO	5	41	40	25.1	44.5	10	
24	CACTUS FLAT NVD	6	40	36	32.4	46.9	201	188
27	GOLD FLAT NVD	4	40	40	29.9	48.9	168	132
64	JORNADA DEL MUERTO S NMD	1	40	41	20.5	38.3	47	
29	KAWICH NVD	8	40	32	25.9	42.5	113	0
28	INDIAN SPRING NVP	3	38	3.3	26.1	43.2	87	
31	STONEWALL FLAT MVD	2	37	44	21.0	41.6	56	
25	EMIGRANT NVO	4	36	3.3	27.6	43.3	191	135
10	PALOMAS PLAIN AZO	2	36	39	21.7	40.6	30	
32	THPEE LAKES NVD	3	35	34	25,1	42.7	117	
13	VEKOL AZD	Ô	0	. 0	• 0	.0	0	

*RANKING SCORES

- P = APEAL RANKING SCORE (A+A)
- Q = GEOTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+D)
- S = COMBINED AREAL AND GEOTECHNICAL SCORE (P+D WITH WEIGHTING FACTORS)
- T = FIMAL SCORE (P+Q+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SUITABLE AREA (II) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- W = NUMPRICAL RANK

DOD RANK (INCLUD

WX SITING DEPARTMENT OF T

UBRO

R	ANKING	SCORE	S.*		
R	S	T	ij	٧	W
33	33.5	44.1	89		1
43	42.1	61.3	332		5
45	24.1	42.3	58		3
40	29.4	49.2	32		4
33	25.9	36.5	62	35	5
40	30.2	49.6	126		6
40	30.6	50.4	94		7
31	24.0	34.4	54		8
41	30.0	49.9	9.5		9
34	39.8	57.8	172	140	10
38	26.1	45.3	106		11
45	21.4	41.4	42		12
34	57.4	75.4	413	550	13
44	55.5	43.2	21		14
34	61.5	79.5	521	271	15
34	47.1	64.7	275	230	16
41	38.2	58.1	805		17
<i>u</i> 1	24.7	43.8	100		18
34	29.1	46.3	70	59	19
45	1,55	45 * 8	7		5.0
40	25.7	41.5	124		21
40	25.1	44.5	1.0		S S
36	32.4	46.9	105	188	5.3
40	29.9	48.9	168	132	24
41	20.2	38.3	47		25
32	25,9	42.5	113	0	26
33	26.1	43.2	87		27
44	21.0	41.6	56		85
33	27.6	43,3	191	135	59
39	21.7	40,6	30		30
34	25.1	42.7	117		31
0	• 0	• 0	0		35

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1)-

EIGHTING FACTORS)

8 AREAS

Dod RANKING BASED ON COLUMN Q (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

F-3

UGRO NATIONAL, INC.

PANKING BASED ON CULTURAL FACTORS (R)

V	ALLFY			R	ANKTNG	SCORE	S *	
NO.	NAME	p	(3	R	S	T	U	V
62	HUECO BOUSON MMD	4	42	45	22.1	42.8	7	
A	MINAVE MASH AZD	5	44	44	22.2	43.2	21	
31	STINEWALL FLAT MYD	5	37	44	21.0	41.6	56	
66	TULARDSA BASTE S MMD	8	60	43	42.1	61.3	332	
4	THOIAN WASH AZD	2	45	42	21.4	41.4	42	
65	TULAROSA BASTN N NMU	5	5.7	42	24.1	42.3	58	
2	GILA BEND PLAIN AZD	3	47	41	30.0	49.9	92	
64	JORNADA DEL MUERTO S MAD	1	40	41	20.2	38.3	47	
12	SENTENEL PLAIN AZD	7	44	41	38.2	58,1	208	
67	TULAROSA HASIN E NHD	3	44	41	24.7	43.8	100	
1	CASILE DOME AZO	3	49	40	30.2	49.6	126	
27	GOLD FLAT NVD	4	40	40	29.9	48.9	168	132
63	JORNADA DEL MUFRTO N NMD	3	41	40	25.7	41.5	124	
6	LA POSA PLAIN AZD	. 5	51	40	29,4	49.2	32	
30	PAHUTE MESA NVD	. 5	41	40	25,1	44.5	10	
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94	
10	PALIMAS PLAIN AZD	5	36	39	21.7		30	
Š	KING AZD	3	46	38	26.1	45.3	106	
24	CACTUS FLAT NVD	6	40	36	32.4	116.9	201	188
3	GROWLER/CHILDS 4ZD	15	44	34	57.4	75.4	413	989
7	LECHUGUILLA DESERT AZD	7	47	34	39.8	57.A	172	140
0	MOHAWK/TULE AZD	16	44	34	61.5	79.5	521	271
1 1	SAN CRISTOBAL AZD	11	44	34	47.1	64.7	275	230
32	THREE LAKES NVD	3	35	34	25.1	42.7	117	
33	TIKABOO NYO	3	43	34	29.1	46.3	70	29
źś	FMIGRANT NVD	4	36	33	27.6	43.3	191	135
56	FRENCHMAN FLAT NVD	5	50	33	25.9	36.5	62	35
28	INDIAN SPRING NVD	3	38	33	26.1	43.2	87	
34	YUCCA FLAT NVD	4	6.3	33	33.5	44.1	89	
29	KAWICH NVD	5	40	32	25.9	42.5	113	0
23	HUCKBUARD MESA NVD	<u>,</u>	47	31	24.0	34.4	54	
13	VEKUL AZD	0	0	0	. 0	.0	0	

*RANKING SCORES

- P = AREAL RANKING SCOPE (A+B)
- Q = GENTECHNICAL PANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+D)
- S = CUMBINED AREAL AND GEDTECHNICAL SCORE (P+D WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+D+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- W = NUMERICAL RANK

DOD (INC

DEPARTMENT OF



	R	ANKTNG	SCORES	S *		
(3	R	S	T	U	V	W
42	45	1,55	45.8	7		1
44	44	55.5	43.2	21		5
37	44	21.0	41.6	56		3
60	43	45.1	61.3	332		4
45	45	51.0	41.4	42		5
5.7	42	24.1	42.3	58		6
47	41	30.0	49.9	92		7
40	41	50.5	38.3	47		8
44	41	38,2	58.1	208		9
44	41	24.7	43.8	100		10
49	40	30.2	49.6	126		11
40	40	29.9	48.9	168	132	12
41	40	25.7	41.5	124		13
51	40	29.4	49.2	32		14
41	40	25.1	44.5	10		15
49	40	30.6	50.4	94		16
36	39	21.7	40.6	30		17
46	38	26.1	45.3	106		1.8
40	36	32.4	46.9	201	188	19
44	34	57.4	75.4	413	550	50
47	34	39.8	57.A	172	140	21
44	34	61.5	79.5	521	271	55
44	34	47.1	64.7	275	230	23
35	34	25.1	42.7	117		24
43	34	29.1	46.3	70	29	25
36	33	27.6	43.3	191	135	26
50	33	25.9	36.5	62	35	27
38	33	26.1	43.2	87		28
63	33	33.5	44.1	89		29
40	32	25.9	42.5	113	0	30
47	31	24.0	34.4	54		31
0	Ō	. 0	.0	0		35
•	,	•	• "	•		

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WITH WEIGHTING FACTORS)

DERNESS AREAS

DOD RANKING BASED ON COLUMN R. (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

PARTMENT OF THE AIR FORCE - SAMSO

UGRO NATIONAL, INC.

RANKING BASED ON AREAL AND GENTECHNICAL FACTORS (S)

V	ALLFY			R	ANKING	SCORE	S*	
Nn.	NAME	P	Ü	R	S	7	U	٧
9	HAHAWK/TULF AZD	16	44	34	61.5	79.5	521	271
3	GROWLER/CHILDS AZD	15	44	34	57.4	75.4	413	550
11	SAN CRISTORAL AZD	11	44	34	47.1	64.7	275	230
66	TULARISA BASIN S HMD	8	50	43	42.1	61.3	332	
7	LECHUGUILLA DESERT AZD	7	47	34	39.8	57.8	172	140
12	SENTINEL PLATH AZD	7	44	41	38.2	58.1	805	
34	YUCCA FLAT NVD	4	63	33	33.5	44.1	89	
54	CACTUS FLAT NVD	6	40	36	32.4	46.9	201	188
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94	
1	CASTLE DOME AZD	3	49	40	30,2	49.6	126	
2	GILA BEND PLATE 470	3	47	41	30.0	49.9	9.5	
27	GOLD FLAT NVD	Ц	40	40	50.9	48.9	168	132
6	LA POSA PLAIN AZO	5	51	40	29.4	44.5	32	
33	TIKAROD NVD	3	43	34	29.1	46.3	70	29
25	EMIGRANT NVD	4	36	33	27.6	43.3	191	135
ĄS	INDIAN SPRING NVD	3	38	33	26.1	43.2	87	
5	KING A7D	3	46	38	26.1	45.3	106	
26	FRENCHMAN FLAT NVD	2	50	33	25.9	36.5	62	35
ŻΟ	KAMICH NVD	5	4()	32	25.9	42.5	113	0
63	JURNADA DEL MUFRTO N'NMO	3	41	40	25.7	41.5	124	
30	PAHUTE MESA NVD	2	41	40	25.1	44.5	10	
32	THREE LAKES NVD	3	35	34	25.1	42.7	117	
67	TULAROSA HASIN E NMD	3	44	41	24.7	43.8	100	
65	TULAROSA BASTN N MMD	2	57	42	24.1	42.3	58	
23	BUCKROARD MESA NVD	1	47	31	24.0	34.4	54	
8	MOHAVE WASH AZD	5	44	44	55.5	43.2	21	
65	HUECO ROLSON NMD	4	42	45	1.55	42.8	7	
10	PALOMAS PLAIN AZD	5	36	39	21.7	40.6	30	
u	TUDIAN WASH AZD	5	45	42	21.4	41.4	45	
31	STAMEWALL FEAT NVD	2	37	44	21.0	41.6	56	
6/1	TORNADA DEL MUERTO S NATO	1	u ()	41	20.2	38.3	47	
13	VEKUL AZD	n	0	0	• O	• 0	0	

*RANKING SCORES

- P = APEAL RANKING SCORE (A+B)
- R = GENTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+0)
- S = COMBINED AREAL AND GEOTECHNICAL SCORE (P+0 WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+0+R WEIGHTING FACTORS)
- 1) = SUITABLE VALLEY AREA
- V = SUITABLE AREA (II) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- W = NUMERICAL RANK

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DEPARTMENT OF

VGR

AND GENTECHNICAL FACTORS (S)

R	ANKING	SCORES	5*		
R	8	7	Ų	٧	W
34	61.5	79.5	521	271	1
34	57.4	75.4	413	550	ڄ
34	47.1	64.7	275	230	3
43	42.1	61.3	332	G 30	4
30	39.8	57.8	172	140	5
41	3A.2	58.1	208	140	6
33	33.5	44.1	89		7
36	32.4	46.9	201	188	Ŕ
40	30.6	50.4	94	¥ 1717	9
40	30.2	49.6	126		10
41	30.0	49.9	څو		11
40	20.9	48.9	168	132	12
40	Su n	49.2	32		13
34	29.1	\$6.3	70	29	14
33	27.6	43.3	191	135	15
33	26.1	43.2	87		16
38	26.1	45.3	106		17
33	25.9	36.5	62	35	18
32	25.9	42.5	113	Ö	19
40	25.7	41.5	124	·	20
40	25.1	44.5	10		21
34	25.1	42.7	117		52
41	24.7	43.8	100		23
42	24.1	42.3	58		24
31	24.0	34.4	54		25
44	25.2	43.2	21		26
45	1.55	42.8	7		27
39	21,7	40.6	30		28
42	21.4	41.4	42		29
44	21.0	41.6	56		30
41	20.2	38.3	47		31
0	• 0	• 0	0		32

DRAFT SEP 3 1976

EIGHTING FACTORS)

B AREAS

DOD RANKING BASED ON COLUMN S (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION

APPENDIX

DEPARTMENT OF THE AIR FORCE - SAMSO

F-5

UDRO NATIONAL, INC.

RANKING BASED ON FINAL SCORE (T)

٧	ALLEY		RANKING SCORES*							
MU.	NAME	P	(¹)	R	S	T	U	٧		
9	MOHAWK/TULE AZD	16	44	34	61.5	79.5	521	271		
3	GROWLER/CHILDS AZD	15	44	34	57.4	75.4	413	220		
1 1	SAN CRISTOBAL AZD	11	44	34	47.1	64.7	275	230		
66	TULAROSA BASTN S NMO	8	60	43	42.1	61.3	332			
12	SENTINEL PLAIN AZD	7	44	41	38.2	58.1	808			
7	LECHUGUILLA DESERT AZD	7	47	34	39.8	57.8	172	140		
14	YUMA DESERT AZD	3	49	110	30.6	50.4	94			
2	GTLA BEND PLAIN AZD	3	47	41	30.0	49.9	92			
1	CASTLE DOME AZD	3	49	40	30.2	49.6	126			
6	LA POSA PLAIN AZD	5	51	40	29.4	49.2	32			
27	GOLD FLAT NVD	4	40	40	29.9	48.9	168	132		
24	CACTUS FLAT NVP	6	40	36	32.4	46.9	201	188		
33	TIKAROO NVO	3	45	34	29.1	46.3	7.0	29		
5	KING AZD	3	46	3,8	26.1	45.3	106			
30	PAHUTE MESA NVD	5	41	40	25.1	44.5	10			
34	YUCCA FLAT NVD	4	63	33	33.5	44.1	R9			
67	TULARTISA BASIN E NMD	3	44	41	24.7	43.8	100			
25	EMIGRANT NVD	4	36	33	27.6	43.3	191	1 35		
28	INDIAN SPRING NVD	3	38	33	26.1	43.2	87			
А	MOHAVE WASH AZD	5	44	44	22.2		21			
62	HUECH BOLSON NMD	4	42	45	22.1		7			
32	THREE LAKES NVD	3	35	34	25.1	42.7	117			
29	KANICH NVD	2	40	32	25.9	42.5	113	0		
65	THEARDSA BASTN N NMD	2	57	42	24.1	42.3	58			
31	STONFHALL FLAT NVD	2 2 3	37	44	21.0		56			
63	JORNADA DEL MUERTO N NMD	3	41	40	25.7	41.5	124			
4	INDIAN WASH AZD	2	45	42	21.4	41.4	42			
10	PALOMAS PLAIN AZD	Š	36	39	21.7	40.6	30			
64	JORNADA DEL MIJERTO S NMD	1	40	41	20.2	38.3	47			
96	FRENCHMAN FLAT NVD	į	50	33	25.9	36.5	62	35		
23	BUCKHDARD MESA NVD	ĩ	47	31	24.0	34.4	54			
13	VEKAL AZA	Ó	0	0	. 0	. 0	0			

*RANKING SCORES

- P = AREAL RANKING SCORE (A+B)
- Q = GEOTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORF (C+H+M+N+O)
- S = COMMINED AREAL AND GEOTECHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+Q+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SUITABLE AREA (U) EXCLUDING WILDLIFF OR WILDERNESS AREAS
- W = NUMERICAL RANK

DOD (INC.

WX SI

DEPARTMENT

AL SCORE (T)

	F	ANKING	SCORE	S*		
IJ	R	S	Ť	U	V	₩
4	34	61.5	79.5	521	271	1
4	34	57.4	75.4	413	220	2
4	34	47.1	64.7	275	230	3
0	43	42.1	61.3	332		ű.
4	41	38.2	58.1	808		5
7	34		57.8	172	140	6
3	40	30.6	50.4	94		7
7	41	30.0		92		8
•	40	30.2	49.6	126		9
l	40	29.4	49.2	32		10
)	40	59.9	48.9	168	132	11
9 1 0 5 5	36	32.4	46.9	201	188	12
5	34	29.1	46.3	70	29	13
•	38	26.1	45.3	106		14
	40	25.1	44.5	10		15
3	33	33.5	44.1	89		16
l	41	24.7	43.8	100		17
•	33	27.6	43.3	191	135	18
l	33	26,1	43.2	87		19
}	44	22.2	43.2	21		20
	45	22.1	42.8	7		21
i	34	25.1	42.7	117		55
)	32	25.9	42.5	113	0	23
,	42	24.1	42.3	58		24
	44	21.0	41.6	56		25
	40	25.7	41.5	124		26
	42	21.4	41.4	42		27
•	39	21.7	40.6	30		28
l	41	20,2	38.3	47		وَحَ
)	33	25.9	36.5	62	35	30
)	31	24.0	34.4	54		31
	0	.0	.0	0		32

DRAFT SEP 3 1976

WEIGHTING FACTORS)

SS AREAS

DOD RANKING BASED ON COLUMN T (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION

APPENDIX

DEPARTMENT OF THE AIR FORCE - SAMSO

UGRO NATIONAL, INC.

APPENDIX F - MATRIX ANALYSIS - DOD VALLE EXCLUDING WILDLIFF RANGES

	VALLEY						RA	NKIN	G FA	CTOR	S*		
NO.		Δ	B	С	D	F,	F	G	Н	I	J	K	L
_	ALATIC BONE ATE			•		_	3	_	• •	_	^	,	_
	CASTLE DOME AZD	2 2	1	8 7	4	5 3	5 S	5 5	10	9	9	6 8	9 10
	GILA BEND PLAIN AZD GROWLES/CHILDS AZD	4	ξ,	6	4	., 3	5	5	10	Ą	7	6	7.0
•	TNDIAN WASH AZD	1	1	ē	5	10	5	5	10	Я	í	4	7
	KING AZD	خ	1	6	ä	- 6	5	Š	10	7	7	6	6
	LA POSA PLAIN AZD	1	1	6	u	3	3	5	10	10	6	10	10
	LECHUGUILLA DESERT AZO	3	4	6	ü	3	ڿ	5	10	1.0	5	้ลื	10
	MOHAVE WASH AZD	í	1	6	Ц	10	ü	5	10	9	1	څ	9
•	MOHAWK/TULE AZD	Ε,	Ü	6	4	3	2	4	10	9	7	6	q
	PALCIMAS PLAIN AZD	1	1	7	5	3	1	4	10	Ą	3	Ž	1.0
	SAN CRISTOBAL AZD	Ц	3	6	4	3	5	5	10	8	7	6	٠,
	SENTINEL PLATH AZD	4	خ	7	4	3	Ş	4	10	А	7	6	10
	VEKOL AZD	0	0	0	0	O	0	0	0	0	0	0	0
	YUMA DESERT AZD	2	1	6	t\	6	7	3	10	9	7	А	10
23	BUCKBOARD MESA NVD	1	Ü	Д	4	3	6	5	1	10	6	4	9
24	CACTUS FLAT NVD	4	2	G	U	S	5	6	Ę	8	6	5	7
25	EMIGRANT NVD	3	Ō	7	3	0	5	5	A	8	5	2	Ą
26	FRENCHMAN FLAT NVD	1	1	1.0	/1	5	6	5	1	8	3	10	9
27	GOLD FLAT NVD	3	1	8	3	5	0	6	10	Я	7	6	A
28	INDIAN SPRING UVD	7	1	Ģ	3	0	1	6	10	7	5	1 1	6
59	KAWICH NVD	r	ŋ	0	0	n	0	9	0	0	0	0	0
30	PAHUTE MESA NVD	1	1	Я	4	5	1	5	10	Q	1	1.0	Q
_	STONFHALL FLAT NVD	1	1	8	3	ج	5	4	1.0	Я	3	2	B
	THREE LAKES NVD	>	1	я	.3	0	1	6	1.0	R	5	4	В
33	TIKAROO NVO	1	0	А	3	0	5	5	10	9	5	1.0	9
_	YUCCA FLAT NVD	4	Λ	10	6	10	10	6	1	А	6	10	7
65	HUFCO BOLSON NMD	1	3	9	5	10	1.0	3	1.0	6	3	4	1
	JOPNADA DEL MUERTO N' NMD	5	1	1.0	5	8	0	3	6	8	5	5	1.0
	JORNADA DEL MUERTO S MMD	1	ō	Q	Ц	1	7	3	8	7	6	5	10
-	TULAROSA BASIN N NMD	1	1	10	6	10	6	10	Н	7	Ŗ	5	8
	TULARISA RASTN S NMD	6	5	10	6	10	4	1.0	9	7	10	4	Q
67	TULARUSA BASIN E NHD	7	1	9	6	10	3	5	1.0	7	5	6	В

WETGHTING FACTORS

*RANKING FACTORS

**RANKING

P = ARFAL RANKING

Q = GENTECHNICAL R

R = CULTURAL RANKI

S = APEAL + GENTEC

T = FINAL SCORE (P

A = SHITABLE VALLEY AREA

B = SHITABLE CONTIGUOUS AREA

C = OWNERSHIP AND CONTROL (AMOUNT AND QUALITY)

D = GEOLOGY AND SOILS ENGINEERING (AMOUNT AND QUALITY)

F = DEPTH TO POCK (AMOUNT AND QUALITY)

F = DEPTH TO WATER (AMOUNT AND QUALITY)

G = SUPFACE HYDROLOGY (AMOUNT AND QUALITY)

H = OWNERSHIP AND CONTROL (FAVORABILITY)

I = GEOLOGY AND SOILS ENGINEERING (FAVORABILITY)

J = DEPTH TO ROCK (FAVORABILITY)

K = DEPTH TO WATER (FAVORABILITY)

L = SURFACE HYDROLOGY (FAVORABILITY)

DRAFT SEP 3 1976

M = POTENTIAL IMPACT (MILITARY)
N = POTENTIAL IMPACT (CIVILIAN)

D = DISTANCE TO SUPPORT FACTLITIES (MILITARY AND CIVILIAN)

F - MATRIX ANALYSIS - DOD VALLEYS
XCLUDING WILDLIFF RANGES

	RA	NKIN	G FA	CTOR	S*							RAN	KING	SCORE	S * *
3	F	G	н	1	J	K	L	M	N	Ŋ	P	Û	R	5	T
5	5	5	10	9	q	6	9	4	В	10	3	49	40	30.2	49.6
5 3	5	5	10	9	6	Я	1.0	4	10	10	3	47	41	30.0	49.9
3	5	5	10	н	7	6	9	4	10	10	9	44	40	42.2	62.0
C	5	5	1.0	R	1	4	7	6	8	10	2	45	42	21.4	41.4
6	5	5	10	7	7	6	6	4	А	10	3	46	38	26.1	45.3
3	3	5	1.0	1.0	6	10	1.0	6	8	10	2	51	40	29.4	49.2
3	Ş	5	10	1.0	5	В	10	4	1.0	1.0	7	47	40	59.8	59.6
n	4	5	1.0	9	1	5	9	1.0	8	1.0	2	44	44	55.5	43.2
3	5	4	10	9	7	6	Q	4	10	10	9	44	40	43,6	63.4
3	1	4	1.0	Ŗ	3	2	1.0	4	10	8	2	36	39	21.7	40.6
3	Ś	5	10	8	7	6	9	4	1.0	Я	7	44	38	37.8	56,6
3	Ś	4	10	A	7	6	10	6	8	1.0	6	44	41	36.0	55.9
0	n	0	0	0	0	0	0	0	0	0	0	0	0	, 0	. 0
6	>	3	1.0	9	7	А	10	4	10	10	3	49	40	30.6	50,4
3	6	5	1	10	6	4	9	5	10	10	1	47	31	24.0	34.4
2	5	6	4	Ŗ	6	2	7	ટ	10	10	6	40	36	32.4	46.9
Ò	5	5	A	8	5	5	Ŗ	4	10	8	3	36	37	24.9	41.8
5.	6	5	1	8	3	1.0	9	2	10	10	2	50	33	25,9	36.5
5	0	6	10	8	7	6	A	4	10	8	4	40	40	29.9	48.9
0	1	6	10	7	5	1.0	6	5	2	10	3	38	33	26.1	43.2
0	0	9	0	ŋ	0	0	0	n	0	n	0	0	0	.0	, 0
5	1	5	10	9	•	10	Q	5	10	10	2	41	40	25.1	44.5
5	5	5	1.0	8	3	2	8	6	1.0	1.0	2	37	44	21.0	41.6
0	1	6	1.0	А	5	4	8	4	5	10	3	35	34	25,1	42.7
0	5	5	10	9	5	1.0	9	6	10	8	1	43	42	24.7	44.3
n	10	6	1	A	6	10	7	2	1 0	10	4	63	33	33.5	44.1
O.	1.0	3	1.0	6	3	4	1	8	8	10	4	42	45	1.55	42.8
8	0	3	6	8	5	5	10	8	8	Ą	3	41	40	25.7	41.5
1	7	3	8	7	6	5	10	6	8	10	1	40	41	20.2	38.3
0	6	10	H	7	Ŗ	5	8	6	8	10	5	57	42	24.1	42.3
0	4	1.0	9	7	10	4	9	6	8	10	8	60	43	42.1	61.3
0	3	5	10	7	5	6	8	6	8	8	3	44	41	24.7	43.8
•															

WEIGHTING FACTORS

1 .1 .1 1.0 1.0 .5 .5 .5 .3 .3 .5

**RANKING SCORFS

- P = AREAL RANKING SCORE (A+R)
- D = GENTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+D)
- S = APEAL + GENTECHNICAL SCORE (P+Q WITH WEIGHTING)
- T = FINAL SCORE (P+Q+R WITH WFIGHTING)

DRAFT SEP 3 1976 MATRIX ANALYSIS DOD VALLEYS
(EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAWSO

APPENDIX F-7

TUGRO NATIONAL, INC.

CIVILIAN)

LTTY)

RANKING HASED ON AREAL FACTORS (P)

v	ALLEY	PANKING SCHRES+							
иn.	HAME	P	Q	R	S	T	ίι	٧	
3	GROWLERICHTLDS AZI	9	4 (!	40	42.2	-	413	550	
9	MOHAWK/THLE AZD	9	411	40	43.6	63.4	521	271	
66	TULARDSA RASTN S IND	8	60	43	42.1		332		
7	LECHUGUILLA DESERT AZD	7	47	u O	39.8		172	140	
11	SAN CRISTOMAL AZO	7	44	38	37.8	56.6	275	230	
24	CACTUS FLAT NVD	6	40	36	32.4	46.9	201	188	
12	SENTINEL PLATA AZP	6	44	41	36.0	55.9	805		
27	GOLD FLAT NVD	4	UO	40	50.9	48.9	168	132	
62	HUECO BOLSON NMD	и	45	45	55.1	42.B	7		
34	YUCCA FLAT NVD	и	43	33	33.5	44.1	A 9		
1	CASTLE DOME A7D	3	49	40	30.2	49.6	126		
25	FMIGRANT NVD	3	36	37	24.9	41.P	191	135	
5	GILA REND PLAIN AZD	3	47	41	30.0	49.9	95		
28	INDIAN SPRING MVD	3	34	33	26.1		87		
63	JURNADA DEL MUERTO N NMD	3	41	40	25.7		124		
5	KING AZD	3	46	36	26.1	45.3	106		
32	THREE LAKES NVD	3	35	34	25.1		117		
67	TULAROSA BASTN F UMD	3	44	41	24.7	43.8	100		
14	YUMA DESERT AZD	3	ti 9	40	30.6	50.4	94		
26	FRENCHMAN FLAT NVD	ج	50	33	25.0	36.5	65	35	
4	INDIAN WASH AZD	ج	45	42	21.4	41.4	42		
6	LA POSA PLATH AZD	5 5	51	40	29.4	49.5	32		
Я	MOHAVE WASH AZD	2	44	44	22.2	43.2	21		
30	PAHUTE MESA NVD	5	41	40	25.1	44.5	10		
10	PALOMAS PLATN AZD	5	36	39	21.7	40.6	30		
31	STONEWALL FLAT NVD	2	37	44	21.0	41.6	56		
65	THEARDS BASTN D MAD	Ž	57	42	24.1	42.3	58		
23	PUCKBOARD MESA NVD	1	47	31	24.0	34.4	54		
64	JORNADA DEL MUERTO S NMD	1	40	41	20.2	38.3	47		
33	TIKAROO NVD	1	4.3	42	24.7	44.3	70	29	
وُجُ	KAWICH NVD	Ó	0	Ō	Ô	.0	113	0	
13	VEKOL AZO	Ô	0	0	. 0	. 0	()		

*RANKING SCORES

- P = AREAL RANKING SCORE (A+B)
- D = GEOTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL PANKING SCORE (C+H+M+N+0)
- S = COMBI O AREAL AND GEOTECHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)
- T = FINA SCHRE (P+R+R WEIGHTING FACTORS)
- U = SUITAPLE VALLEY AREA
- V = SUITARLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- * = NUMERICAL RANK

DoD R (EX**C**)

MX SIT



FACTORS (P)

F	ANKING	SCORE	5*			
R	S	Ť	ĹΙ	٧	lui	
40	42.2	62.0	413	250	t	
40	43.6	63.4	521	271	Ś	
43	1.54	61.3	332		3	
40	39.9	59.6	172	140	4	
38	37.8	56.6	275	230	5	
36	32.4	46.9	201	188	6	
41	36.0	55.9	805		7	
40	59,9	48.9	168	132	8	
45	55.1	42.8	7		9	
33	33,5	44.1	89		10	
40	30.2	49.6	156		11	
37	24.9	41.8	191	135	12	
41	30.0	49.9	d S		13	
33	26.1	43.2	87		14	
40	25.7	41.5	124		15	
36	26.1	45.3	106		16	
34	25.1	42.7	117		17	
41	24.7	43.8	100		18	
40	30.6	50.0	94		19	
3.3	25.0	36.5	62	35	50	
42	21.4	41.4	42		51	
40	29.4	49.2	32		55	
44	25.2	43.2	21		23	
40	25.1	44.5	10		24	•
39	21.7	40.6	30		25	
44	21.0	41.6	56		26	
42	24.1	42.3	58		27	
31	24.0	34.4	54		85	
41	20.2	3A, 3	47		29	
42	24.7	44.3	70	29	30	DDAFT
0	.0	. 0	113	0	31	UKAFI
0	.0	, 0	Ü		32	SEP 3 1976

EIGHTING FACTORS)

S AREAS

DOD RANKING BASED ON COLUMN P
(EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX"

UGRO NATIONAL INC

RANKING HASED ON GEOTECHNICAL FACTORS (D)

V	ALIEY			Ł	STUKING	SCORES*	
Nn.	NAME	P	Ü	H	S	T	IJ
34	YUCCA FLAT NVD	4	63	33	33.5	44.1	89
66	THEARMSA BASTN S AMP	8	60	43	42.1	61.3	332
65	TULARDSA BASIN N NMD	2	57	42	24.1	42.3	58
6	LA POSA PLAIN AZO	ટ	51	40	29.4	49.2	32
26	FRENCHMAN FLAT NVD	خ	50	33	25.9	36.5	62
1	CASTLE DOME AZD	3	49	40	30.2	49.6	126
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94
23	BUCKBOARD MESA NVO	1	47	31	24.0	34.4	54
2	GILA BEND PLATH AZD	3	47	41	30.0	49.9	92
7	LECHUGUILLA DESERT AZO	7	47	40	39.8	59.6	172
5	KING AZD	3	46	38	26.1	45.3	106
4	INDIAN WASH AZD	2	45	42	21.4	41.4	42
3	GROWLER/CHILDS AZD	Q	44	40	42.2	62.0	413
Ā	MOHAVE WASH AZD	2	44	44	22.2	43.2	21
q	HOHAWKITHE AZD	9	0.4	40	43.6	63.4	521
11	SAN CRISTORAL AZD	7	11.4	38	37.8	56.6	275
12	SENTINEL PLATE AZD	6	44	41	36.0	55.9	208
67	TILARUSA BASTN F NID	3	44	41	24.7	43.8	100
33	TIKABOD NYD	1	43	42	24.7	44.3	70
62	HUECO BOLSON NMD	4	42	45	22.1	42.A	7
6.5	JORNADA DEL MUFRTO N NMD	3	41	40	25.7	41.5	124
30	PAHUTE MESA NVP	خ	41	40	25.1	44.5	10
24	CACTUS FLAT NVC	6	41.0	36	32.4	46.9	201
27	GOLD FLAT NVD	4	40	40	29.9	48.9	168
64	JARNADA DEL MUFRTO S NMD	1	40	41	20.2	38.3	47
28	THOIAN SPRING NVD	3	48	33	26.1	43.2	87
31	STONE HALL FLAT NVD	Š	37	44	21.0	41.6	56
25	FMTGRANT NVD	3	56	37	24.9	41.8	191
10	PALOMAS PLAIM 470	ž	36	39	21.7	40.6	30
32	THREE LAKES NVD	<u>:</u>	35	34	25.1	42.7	117
20	KANTCH NVD	ō	n	0	.0	. 0	113
13	VEKUL AZD	0	0	n	. 0	. 0	0

ARANKING SCORES

- P = APEAL RANKING SCOPE (A+B)
- 0 = GEOTECHNICAL RANKING SCORF (D+F+F+G+I+J+K+L)
- R = CHLTURAL RANKING SCORE (C+H+M+N+O)
- S = COMBINED AREAL AND GEOTECHNICAL SCORE (P+D WITH WEIGHTING FACTURS)
- T = FIHAL SCORE (P+Q+R METGHTING FACTORS)
- U = SUTTABLE VALLEY APEA
- V = SUITABLE AREA (U) FYCHUDING WILDLIFF OR WILDERNESS AREAS
- W = NUMERICAL RANK

DEPAR

	R	ANKING	SCORES	5*		
(3	R	S	T	U	٧	W
						_
63	33	33.5	44.1	89		1
60	43	42.1	61.3	332		5
57	42	24.1	42.3	58		3
51	40	29.4	49,2	32		4
50	33	25.9	36.5	58	35	5
49	40	30.2	49.6	126		6
49	40	30.6	50.4	94		7
47	31	24.0	34.4	54		В
47	41	30.0	49.9	95		9
47	40	39.8	59.6 45.3	172	140	10
46	38	26.1	45.3	106		11
45	42	21.4	41.4	42		12
44	40	42.2	62.0	413	220	13
44	44	22.2	43.2	21		14
44	40	43.6	63.4	521	271	15
114	38	37.8	56.6	275	230	16
44	41	36.0	55,9	208		17
44	41	24.7	43.8	100		1.8
43	42	24.7	44.3	70	29	19
42	45	22.1	42.8	7		20
41	40	25.7	41.5	124		21
41	40	25.1	44.5	10		22
40	36	32.4	46.9	201	188	23
40	40	29.9	48.9	168	132	24
40	41	20.2	38.3	47		25
48	33	26.1	43.2	87		26
37	44	21.0	41.6	56		27
36	37	24.9	41.8	191	135	85
36	39	21.7	40.6	30		29
35	34	25.1	42.7	117		30
'n	0	.0	.0	113	0	31
0	n	.0	. 0	0		32
		• •	•	-		-

DRAFT, 1976

TH WEIGHTING FACTORS)

RNESS AREAS

Dod RANKING BASED ON COLUMN Q (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX F-9

TUGRO NATIONAL, INC.

PANKING FASED ON CHLTHRAL FACTORS (R)

٧	ALLEY			F	PANKTNO	S SCORE	S±	
<u>۱</u> ۵۰	NAME	Р	C	ħ	5	T	U	٧
4.2	EULEO BOLSON NED	n	/I 3	45	22.1	#3 C	-	
62 8	HURCO ROUSON NMO MOHAVE WASH AZO	4 2	42 44	44	22.2	42.8	7	
31	STONEWALL FLAT NVD	2	37	44	21.0	43.2	21 56	
66	TULAPOSA HASTN S NMD	8	60	43	42.1	41.6	332	
4	TYDIAN WASH AZD	۶	45	42	21.4	41.4	42	
33	TIKABOO NVO	1	43	42	24.7	44.3	70	29
65	TULAROSA BASIN M NMD	2	57	42	24.1	42.3	58	<i>c</i> 7
Š.,	CTIA SEND PLATH AZD	3	117	41	30.0	49.9	څو	
64	JORNADA DEL MUERTO S NMD	1	40	41	20.2	38.3	47	
12	SENTINEL PLAIN AZD	6	44	41	36.0	55.9	Sug	
67	TULAROSA BASIN E NMD	3	411	41	24.7	43.8	100	
1	CASTLE DOME AZD	3	49	40	30.2	40.6	126	
27	GOLD FLAT NVD	ů.	40	40	29.9	48.9	168	1 32
3	GROWLER/CHILDS AZD	9	11.11	40	42.2	62.	413	220
63	JORNADA DEL MUERTO N NMD	3	41	40	25.7	41.5	124	
6	LA POSA PLATN AZD	ج	51	40	29.4	49.2	32	
7	LECHUGUILLA DESERT AZD	7	47	40	30 8	59.6	172	140
9	MICHAWK/TULE AZD	9	114	40	43.6	63.4	521	271
30	PAHUTE MESA NVD	S	Ľ	40	25.1	44.5	10	
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94	
10	PALIDMAS PLATN AZD	2	36	39	21.7	40.6	30	
5	KING AZO	3	46	38	26.1	45.3	106	
11	SAM CRISTOBAL AZD	7	44	38	37.A	56.6	275	230
25	EMIGRANT NVD	3	36	37	24.9	41.8	191	135
24	CACTUS FLAT NVD	6	90	36	32.4	46.9	201	188
32	THREE LAKES NVD	3	35	34	25.1	42.7	117	
95	FRENCHMAN FLAT NVD	5	50	33	25,9	36.5	62	35
85	INDIAN SPRING NVD	3	38	33	26.1	43.2	87	
34	YUCCA FLAT NVD	4	43	33	33.5	44.1	6.8	
23	BUCKBOARD MESA MVD	1	47	3 t	24.0	34.4	54	
20	KAMICH NVD	0	0	0	• 0	• 0	113	0
13	VEKOL AZO	0	0	0	• 0	• 0	0	•

*RANKING SCORES

- P = AREAL RANKING SCORE (A+R)
- R = GEOTECHNICAL RAMKING SCORF (D+F+F+G+I+J+K+L)
- R = CILTURAL RANKING SCORE (C+H+M+N+D)
- S = COMBINED AREAL AND GENTECHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+0+R WEIGHTING FACTORS)
- U = SHITABLE VALLEY AREA
- V = SHITABLE AREA (U) EXCLUDING WILDLIFF OR WILDERNESS AREAS
- W & NUMERICAL RANK

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DEPARTMENT

<u>fua</u>

LIURAL FACTORS (R)

	p	ANKING	SCORE	S*		
C	¥	5	Т	U	٧	M
42	45	1,55	42.8	7		1
14	44	25.2	43.2	21		خ
37	44	21.0	41.6	56		3
60	43	45.1	61.3	332	•	4
45	42	21.4	41.4	42		5
43	42	24.7	44.3	70	29	6
57	42	24.1	42.3	58		7
// 7	41	30.0	49.9	9.5		8
40	41	50°S	38.3	47		9
44	41	36.0	55.9	508		10
44	41	24.7	43.8	100		11
49	40	30.2	40.6	126		12
40	40	29.9	48.9	168	1.32	13
44	40	42.2	65.0	413	550	14
41	40	25.7	41.5	124		15
51	40	29.4	49.2	32		16
47	40	39.8	59.6	172	140	17
44	40	43.6	63.4	521	271	18
41	40	25.1	44.5	10		19
49	40	30.6	50-4	94		50
36	39	21.7	40.6	30		21
46	38	26.1	45.3	106	2.70	55
44	38	37.8	56.6	275	230	23
36	37	24.9	41.8	191	135	24
10	36 34	32.4	46.9	201	188	25
3 5	33	25.1	42.7	117	70	26
2 0 3 8	33	25,9 26,1	36.5	62 87	35	27 28
3	33	33.5	43.2 44.1	87 89		29
7	31	24.0	34.4	54		30
Ó		.0	.0	113	0	31
0	0	• 0	.0	0	V	35
ľ	v	• 4	• 0	v		36

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WEIGHTING FACTORS)

ESS AREAS

DOD RANKING BASED ON COLUMN R (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

F-10

UGRO NATIONAL, INC.

RANKING BASED ON AREAL AND GEOTECHNICAL FACTORS (S

٧	ALI,F.Y			R	PANKING	SCORE	S#	1
NO.	NAMP	P	U	B	S	T	IJ	(
Q	MUHAWKITULE AZD	9	44	40	43,6	63.4	521	21
3	GROWLER/CHILDS AZD	9	44	41 ()	42.2	65.0	413	28
66	TULAROSA PASIN S NHO	8	6.0	43	42.1	61.3	332	
7	LECHUGUILLA DESFRI AZD	7	47	и 0	39.8	59,6	172	14
1.1	SAN CRISTORAL AZD	7	94	38	37.8	56.6	275	21
12	SENTINEL PLATH AZD	6	4.4	4 <u>1</u>	36.0	55.9	805	
34	YUCCA FLAT NVD	4	63	33	33.5	44.1	89	
24	CACTUS FLAT MVD	6	40	36	32.4	46.9	201	1.8
1.4	YUMA DESERT A7D	3	49	40	30.6	50.4	94	
1	CASTLE DOME AZD	3	44	40	30.2	49.6	126	
7	GILA BEND PLAIN AZD	3	47	41	30.0	49.9	92	
27	GNLD FLAT NVD	4	40	40	29.0	48.9	168	13
6	LA POSA PLAIN AZD	2	51	40	29.4	49.2	32	
28	INDIAN SPRING NVD	3	38	33	26.1	43.2	87	
- 5	KING AZD	3	46	38	26.1	45.3	106	
26	FRENCHMAN FLAT NVD	2	50	33	25.9	36.5	65	3
63	JORNADA DEL MUERTO N' NMD	3	41	4.0	25.7	41.5	124	
30	PAHUTE MESA NVD	5	41	40	25.1	44.5	1.0	
32	THREE LAKES NVD	3	35	34	25.1	42.7	117	
25	FMTGRANT NVD	3	36	37	24.9	41.8	191	13
33	TIKABOO NYO	1	9.3	42	24.7	44.3	70	2
67	TULAROSA BASTN E NMP	3	44	41	24.7	43.8	100	
65	TULAROSA BASTN N NMO	5	57	2.0	24.1	42.3	58	
23	BUCKBOARD MESA NVD	1	47	31	24.0	34.4	54	
Ŗ	MCHAVE WASH AZD	S	04	44	22.5	43.2	21	
62	HUECO BOLSON NMD	4	42	45	1.55	42.8	7	
10	PALOHAS PLAIN AZO	8	36	39	21,7	40.5	30	
4	TUDIAN WASH AZD	5	45	42	21.4	41.4	42	
31	STONEWALL FLAT NVD	S	37	44	0.15	41.6	56	
64	JORNADA DEL MUERTO S NMD	1	40	41	20.2	38.3	47	
وج	KAWICH NVD	Ô	Ó	0	. 0	• 0	113	
13	VEKOL AZD	0	0	0	. 0	0	0	

*RANKING SCORES

- P = AREAL RANKING SCORE (4+P)
- Q = GFFTECHNICAL RANKING SCORF (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+0)
- S = COMBINED AREAL AND GENTECHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+Q+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- W = NUMERICAL RANK

DOD (EI MX I DEPARTMENT

AND GEOTECHNICAL FACTORS (S)

D	ANKTHO	cenner	C 4	Í		
B.	ANKING	SCURES T	o# 1)	· v	W	
,	3	'	1,7	٧	~	
40	43.6	63.4	521	271	1	
410	42.2	0.56	413	550	S	
43	42.1	61.3	332		3	
40	39.8	59.6	172	140	4	
38	37.8	56.6	275	230	5	
41	36.0	55.9	808		6	
33	33.5	44.1	89		7	
36	32.4	46.9	201	188	8	
40	30.6	50.4	94		9	
40	30.2	49.6	126		10	
41	30.0	49.9	92		1.1	
40	29.0	48.9	168	132	12	
40	29.4	49.2	32		13	
33	26.1	43.2	87		14	
38	26.1	45.3	106		15	
33	25,9	36.5	68	35	16	
40	25.7	41.5	124		17	
40	25.1	44.5	10		18	
34	25,1	42.7	117		19	
37	24.9	41.8	191	135	20	
42	24.7	44.3	70	29	21	
41	24.7	43.8	100		55	
45	24.1	42.3	58		23	
31	24.0	34.4	54		24	
44	22.2	43.2	21		25	
45	55.1	42.8	7		26	
39	21.7	40.5	30		27	
42	21.4	41.4	42		85	
44	21.0	41.6	56		29	
41	20.2	38.3	47		30	
0	.0	• 0	113	0	31	
0	. 0	.0	0		35	
	-	•				

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EIGHTING FACTORS)

8 AREAS

Dod RANKING BASED ON COLUMN S (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX
F-11

UGRO NATIONAL, INC.

RANKING BASED ON FIRAL SCORE (1)

v	ALLEY			R	ANKING	SCORE	S*	
NO.	NAME	P	U	R	S	Ť	IJ	V
9	MOHAMK/TULE AZD	9	44	40	43.6	63.4	521	271
3	GROWLER/CHILDS AZD	9	44	40	42.2	62.0	413	220
66	TULAROSA BASIN S NUD	8	60	43	42.1	61.3	342	
7	LECHUGUILLA DESERT AZD	7	47	40	39.8	59.6	172	140
11	SAN CRISTOBAL AZD	7	44	38	37.8	56,6	275	230
12	SENTINEL PLATH AZO	6	44	4,1	36.0	55.9	208	
14	YUMA DESERT AZD	3	49	40	30.6	50.4	94	
2	GILA BEND PLAIN AZD	3	47	41	30.0	49.9	92	
1	CASTLE DOME AZD	3	49	40	30.2	49.6	126	
6	LA POSA PLAIN AZO	5	51	40	29.4	49.2	32	
27	GOLD FLAT NVD	4	40	40	29.9	48.9	168	132
24	CACTUS FLAT MVD	6	41 ()	36	32.4	46.9	201	188
5	KING AZD	3	46	38	20.1	45.3	106	
30	PARUTE MESA NVD	5	41	40	25.1	44.5	10	
33	TTKARDO NVD	i	43	42	24.7	44.3	70	29
34	YUCCA FLAT NVD	4	63	33	33.5	44.1	д 9	
67	TULARTISA RASIN E NMP	3	44	41	24.7	43.8	100	
28	INDIAN SPRING NVD	3	38	33	26.1	43.2	87	
А	MOHAVE WASH AZD	2	114	44	22.2	43.2	21	
62	HUECO BOUSON NMD	4	47	45	22.1	42.8	7	
32	THREE LAKES MVD	3	35	34	25.1	42.7	117	
65	TULAROSA BASTN N NMO	5	57	42	24.1	42.3	58	
25	EMIGRANT NVD	3	36	37	24.9	41.8	191	135
31	STONEWALL FLAT NVO	5	57	04	21.0	41.6	56	
63	JORNADA DEL MUERTO PINMO	3	41	40	25.7	41.5	124	
4	THOTAN WASH AZD	5	45	42	21.4	41.4	42	
10	PALOMAS PLATA AZO	S	36	39	21.7	40.6	30	
64	JURNADA DEL MUFRTO S NMD	1	4 C	// 1	20.2	38.3	47	
26	FRENCHMAN FLAT NVD	2	20	33	25.9		62	35
23	BUCKBOARD MESA NVD	ī	47	31	24.0	34.4	54	
20	KANTCH NVD	Ô	0	0	. 0	. 0	113	0
13	VEKOL AZD	0	0	n	. 0	0	0	

*RANKING SCORES

- P = AREAL RANKING SCORE (A+R)
- R = GENTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+0)
- S = COMBINED AREAL AND GEOTECHNICAL SCORE (P+0 WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+Q+R WEIGHTING FACTORS)
- U = SUTTABLE VALLEY AREA
- V = SUTTABLE AREA (U) EXCLUDING BILDLIFE OR WILDERNESS AREAS
- W = NUMERICAL RANK



BC TAI

SCORE (T)

R	ANKING	SCORE	S*			
R	S	T	U	٧	W	
40	43.6	63.4	521	271	1	شو
40	42.2	62.0	413	550	2	
43	42.1	61.3	3 52		3	
40	39.8	59.6	172	140	4	
38	37.8	56.6	275	230	5	
41	36.0	55.9	805		6	
40	30.6	50.4	94		7	
41	30.0	49,9	92		8	
40	30.2	49.6	126		9	
40	29.4	49.5	32		10	
40	24.9	48.9	168	132	11	
36	32.4	46.9	201	188	12	
38	26.1	45.3	106		13	
40	25.1	44.5	1.0		14	
42	24.7	44.3	70	29	15	
33	33.5	44.1	89		16	
41	24.7	43.8	100		17	
33	26.1	43.2	87		18	
44	22.2	43.2	21		19	
45	22.1	8.54	7		20	
34	25.1	42.7	117		21	
45	24.1	42.3	58		25	
37	24.9	41,8	191	135	23	
04	21.0	41.6	56		24	
40	25.7	41.5	124		25	
42	21.4	41.4	42		26	
39	21.7	40.6	30		27	
411	50.5	38.3	47		28	
33	25.9	36.5	65	35	29	
31	24.0	34.4	54		30	
0	. 0	.0	113	0	31	DR
0	• 0	. 0	0		32	
						SEP :

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EIGHTING FACTORS)

B ARFAS

DOD RANKING BASED ON COLUMN T (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

F-12

UGRO NATIONAL, INC

APPENDIX G MATRIX ANALYSIS AND RANKING TABLES FOR BLM LANDS

	VALLEY						H V	NKING	; FA	CTOR	/S*			
NO.	HAME	Δ	В	С	0	F,	٤	G	H	Ţ	Ţ,	K	L	М
15	BUTLER AZB	4	5	ų	5	3	5	4	A	7	9	۶	10	10
-	CACTUS PLATH AZH	3	6	1.0	5	3	1	3	R	4	7	6	9	10
	HARDIAHALA PLATN AZR	7	6	10	5	3	5	3	5	7	8	2	В	10
•	LA PRISA PLAIN AZB	5	3	9	5	3	ñ	4	ý	6	Ġ	5	q	10
	MC MILLEN AZR	4	6	10	5	ڎ	5	a	5	9	A	خ	9	_ 1
•	MOHAVE WASH AZP	C	n	n	ñ	ñ	ò	0	0	0	0	ñ	n	0
	PALOMAS/HYDER AZH	6	ŧ,	10	5	3	1	4	7	Ř	ģ	Ŕ	ģ	10
	RANFGRAS PLATN AZR	7	10	10	5	3	1	4	6	7	9	چ	Я	10
	AMARGOSA DESERT NVB	3	1	10	5	3	2	3	Ą	9	6	A	9	, - 3
	ANTELOPE NVB	1	2	F	5	3	4	3	9	А	4	4	1.0	10
	STG SYOKY NVS	5	3	10	5	3	5	5	B	8	B	2	10	10
	CAVE NVB	1	3	₽.	4	5	2	S	Ġ	6	7	£	5	10
-	CLAYTON-ALKALI SPRING NVR	5	4	1 6	5	3	3	5	3	•	7	4	1.0	10
40	CHYMTE SPRIKANE SPR NVB	4	1	1 C	Ģ	S	2	3	5	Q	В	a	1.0	10
41	DELAMAR/PAHROC NVR	3	2	10	4	3	2	3	10	9	7	6	9	10
	TRY LAKE MULESHOF NVH	6	3	10	Ę.	3	Ş	4	1.0	А	6	10	8	10
	GARDEN/COAL NVP	6	Ş	8	5	3	4	4	1.0	R	Ą	10	7	10
-	HOT CREEK NVR	3	5	10	5	3	4	5	9	Я	G	Ą	1.0	6
	INDIAN SPRING HVB	1	•	م ز	и	ڎ	1	u	10	9	9	10	9	10
-	JAKES NVB	خ	ĺ	10	5	3	Ś	3	10	6	R	10	5	10
	LITTLE FISH LAKE NVP	1	ō	10	ς,	ڿ	4	5	7	Ŕ	Я	ج	10	6
	LITTLE SMOKY NVR	6	3	Å	5	3	4	ú	10	Я	8	4	10	6
	MONITOR NVR	1	4	я	5	چ َ	3	4	А	В	9	2	9	10
	NERARK NVR	1	Ü	я	ú	3	3	3	9	7	9	4	В	10
•	PAHRAMAGAT NVB	1	u	В	ς	3	3	5	ģ	9	6	A	10	10
	PENOVER NVR	3	6	P	ς '	3	., 5,	ú	9	10	9	4	10	10
	PATERDAD NVH	5	6	A	ς,	3	Ľ.	5	Ą	9	9	4	10	8
	RAILRUAD/REVETILE NVR	., 5	4	Ŕ	a	3	3	á	10	á	Ŕ	8	10	Ä
	FALSTON NVB	5	/1	10	//	3	14	3	10	A	9	10	9	10
	SARCHATUS FLAT NVB	1	2	10	4	ڌ	3	.3	7	B	9	ς,	10	10
	STOME CABIN NVR	3	3	1.0	ر ق	3	3		10	9	9	Ŕ	9	8
		2	1) (/ E	۳ د	_		a a	10	Ą	6	۶	P.	10
	STONEWALL FLAT NVR		-			Ś	Š	•	•		10	ū	10	10
	THREE LAKES NVR	1	0	Ą	5	5	5	5	1	10	311			10
	TIKAROO NVR	4	0	Я	5	5	3	3	5			10	c)	- ;
	WHITE RIVER NVR	4	6	10	5	3	4	5	7	Я 7	9	5		10 8
6.5	JURNADA DEL MUERTO NMR	7	r	1.0	и	ج	1	2	5	,	7	5	А	ا ن

WEIGHTING FACTORS

2.7 2.2 .1 .1 .1 .1 .1 .0 1.0 5 .5 .5 , 3

*RANKING FACTURS

A = SUITABLE VALIEY AREA

B = SUITAPLE CONTIGUOUS APEA

C = NUMERSHIP AND CONTROL CAMBUNT AND DUALITY)

D = GEOLOGY AND SOILS ENGINEERING (AMOUNT AND QUALITY)

E = DEPTH TO ROCK (AMOUNT AND QUALITY)

F = DEPTH IN WATER (AMOUNT AND QUALITY)

G = SHREACE HYDROLOGY (ANOTHER AND OUALITY)

H = NWNEPSHIP AND CONTROL (FAVORABILITY)

I = GEOLOGY AND SOILS ENGINEERING (FAVORABILITY)

J = DEPTH TO ROCK (FAVOPABILITY)

K = DEPTH TO MATER (FAVORABILITY)

L = SURFACE HYDROLOGY (FAVORABILITY)

M = PHIENTIAL IMPACT (MILITARY)

N = POTENTIAL IMPACT (CIVILIAN)

O # DISTANCE TO SUPPORT PACTLITTES (MILITARY AND CIVILIAN)

**RANKING SC

P = AREAL RAUKING SC

n = GENTECHNICAL RAN P = CULTUPAL RAHKING

S = AREAL + GEOTECHN

T = FINAL SCORE (P+C

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l .															
		MKIN		CTOR	85*							RAN	KING	SCORE	S**
F.	F	G	H	1	,7	K	L	М	N	O	Р	r)	R	5	T
3	5	4	8	7	9	ج	10	10	8	8	9	45	43	41.0	59.3
3	1	3	A	4	7	6	9	10	8	10	9	38	46	37.5	56.9
3	5	3	5	7	8	څ	8	10	8	8	13	41	41	49.7	65.1
3	ŋ	4	9	6	g	2	Q	10	6	10	8	38	44	37.3	57,0
5	5	4	5	9	A	2	9	10	8	8	10	44	41	44.1	59.5
Ô	9	9	n	0	0	0	0	0	0	0	0	0	Ō	, 0	.0
3	1	4	7	A	9	2	9	10	8	Ŗ	1.5	41	43	0 46,5 58,7	63,9
3	1	4	6	7	9	5	Я	10	6	8	17	39	40	58.7	74.5
	8	3	P	9	6	A	9	10	8	10	Ц	45	46	32.1	51.5
3 3	4	3	9	Ŗ	4	4	10	10	8	6	3	46	41	28.1	46.3
3	5	5	8	8	В	7	10	10	8	8	8	46	44	39.9	58.3
2	2	5	Ü	6	7	ક	5	10	8	10	4	36	45	26.3	46.5
3	3	5	9	0	7	4	1.0	10	А	В	6	46	45	35,3	54,7
5	2	3	5	Q	Ъ	41	10	1.0	6	6	5	43	37	34.2	48.0
3	2	3	10	9	7	6	9	1.0	8	5	5	43	43	33,7	52,6
3	Ś	4	10	д	6	10	8	10	8	Ц	9	46	άŅ	44.2	65.6
3	4	4	1.0	Ŗ	A	10	7	10	8	6	8	49	42	42.7	61.9
3	Ц	5	9	д	G	A	1.0	6	8	10	8	52	43	42.3	61.5
S	1	и	10	9	9	10	Q	10	8	10	S	48	48	29.0	50.4
3	5	3	1.0	6	8	1.0	5	10	8	8	3	42	46	26,4	46.8
5	4	5	7	A	8	5	1.0	6	8	8	1	40	39	25.3	38.5
3	4	4	10	A	8	4	10	6	8	Ŗ	9	46	40	43.4	62.4
2	3	4	Ą	8	9	2	7	10	А	10	5	42	44	30.9	50.1
3	3	3	9	7	9	4	8	10	8	6	5	41	41	30.3	48,5
3	3	5	9	9	6	H	10	10	6	6	5	49	39	34.1	51.7
3	۴,	4	9	1.0	9	U	10	10	8	6	9	50	41	44.5	62.7
3	Ü	5	R	9	9	4	1.0	8	6	6	11	49	36	48.9	64.9
3	3	4	10	8	B	8	1.0	8	8	10	9	48	44	44.7	65,3
3	/1	3	1.0	8	9	10	9	10	R	1.0	9	50	48	45.7	67.1
S	3	4	7	8	9	5	10	10	8	8	3	42	43	26,9	44.3
3	3	3	1.0	9	9	- 8	9	8	B	10	6	49	46	3A,1	58,9
2	Ś	4	10	А	6	7	Я	10	B	10	3	37	46	54.9	46.1
5	5	2	1	10	10	4	1.0	10	6	10	1	48	35	26,1	37.7
5	3	3	5	9	9	1.0	9	1.0	6	8	4	50	37	35.1	49,7
3	4	5	7	8	9	5	9	10	6	8	10	45	41	43.7	60.5
ج	1	2	5	7	7	5	8	8	8	10	5	33	41	8.15	37,6

WEIGHTING FACTORS

.1 .1 1.0 1.0 .5 .5 .5 .3 .3 .5

**RANKING SCORES

- P = AREAL RANKING SCORE (A+B)
- O = GEOTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- P = CULTUPAL RANKING SCORE (C+H+M+N+O)
- S = AREAL + GEOTECHNICAL SCORE (P+R WITH WEIGHTING)
- T = FINAL SCORE (P+G+R WITH WEIGHTING)

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SEP 3 1976

MATRIX ANALYSIS BLM VALLEYS (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION

APPENBIX

DEPARTMENT OF THE AIR FORCE - SAMSO

G-1

UGRO NATIONAL, INC.

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HALTTYD

RANKING PASED ON AREAL FACTORS (P)

٧	AT LEY			R	ANKING	SCORE	S*	
Nn,	N A ME	P	(4	þ	S	T	IJ	٧
22	DANEGRAS OLATA A ZO	4.7	70		rn 7	3	75.	
22	RAMEGRAS PLATI AZB	17	39	40	58.7	74.5	356	
17	HAROUAHALA PLATM AZR	13	41	41	49.7	65.1	352	
21	PALOMAS/HYDER A/R	1;	41	43	46.5	63.9	295	
53	RATERIAD NVB	11	49	36	48.9	64.9	243	
10	MC MULLEN AZR	10	44	41	44.1	59.5	201	
61	WHITE RIVER NVB	10	45	at	43.7	60.5	203	
15	RUTLER AZR	0	45	43	41.0	59.3	230	
16	CACTUS FLAIN AZR	9	3 8	46	37,5	56.9	1 31	
42	DRY LAKE MILE SHOF MVP	9	46	42	44.5	62.6	289	
48	LITTLE SMOKY HVR	9	46	40	43.0	62.4	310	
52	PENOYER NVR	9	50	41	44.5	42.7	157	
54	RATIROAD/REVEILLE MVR	9	48	4	44.7	65.3	247	
55	RALSTON NVB	9	5 ()	48	45.7	67.1	238	
37	PIG SMUKY MVA	8	46	44	39.4	54.3	246	
43	GARDEN/COAL NVB	8	49	42	45.7	61.9	326	
a n	HUL CEEK WAR	8	52	45	42.3	61.5	t 38	
1 A	LA POSA PLATN AZR	8	34	44	37.3	57.0	236	
39	CLAYTOM-ALKALT SPRING NVB	6	46	45	35,3	54.7	8.9	
57	STOME CARID NVR	6	49	46	38.1	58.9	171	
40	COYOTE SPRIKANE SPR NVB	5	43	37	34.2	48.0	276	209
41	DELAMARIPAHROC MVB	5	43	43	33.7	52.6	176	
49	INTTOR NVB	5	42	44	30.9	50.1	50	
50	NEWARK NVR	5	41	41	30.5	48.5	50	
51	PAHRAMAGAT NVB	5	49	39	34.1	51.7	73	
35	AMARGOSA DESERT MVH	4	45	46	32.1	51.5	137	
34	CAVE NVR	a	36	45	26.3	45.5	75	
60	LIKABUU WAB	4	90	37	35.1	49.7	229	144
36	ANTELOPE NVA	3	46	41	28,1	46.3	55	
46	JAKES NVB	3	45	46	26.4	46.8	106	
56	SARCOBATUS FLAT NVP	3	42	43	26.9	44.3	7.0	
58	STONEWALL FLAT NVR	3	37	46	24.9	46.1	105	
45	INDIAN SPRING NVB	۶	48	0.8	50.0	50.4	52	11
68	INRNADA DEL MUERTO NMB	2	33	41	21.A	57.6	112	
47	LITTLE FISH LAKE NVH	ī	44	30	22.3	38.5	PЦ	
59	THREE LAKES NVR	i	43	35	26.1	37.7	19	
20	MOHAVE WASH AZR	ò	Ċ	0	0	0	0	
-		· ·	•	•	•	• •		

*RANKING SCORES

- P = AREAL PANKING SCORE (A+3)
- D = GEOTECHNICAL RANKING SCORE (D+E+F+G+f+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+D)
- S = COMBINED AREAL AND CHOIFCHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+Q+R REJORITING FACTORS)
- U = SHITABLE VALLEY AREA
- V = SUTTABLE AREA (U) EXCLUDING WILDLIFE OR VILDERNESS AREAS
- W = NUMERICAL PANK

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CTOR	S (P)			i		(
R	ANKING	SCORE	5×			
P	S	T	IJ	V	W	
40	58.7	74.5	356		1	
41	49.7	65.1	352		2	
43	46.5	63.9	295		3	
36	48.9	64.9	243		4	
41	44.1	59,5	201		5	
41	43.7	60.5	203		6	
43	41.0	59.3	230		7	
46	37.5	56.9	1.51		8	
42	44.2	62.6	289		9	
40	43.4	62.4	310		1.0	
41	44.5	62.7	157		11	
44	44.7	65.3	247		12	
48	45.7	67.1	238		13	
44	39.9	59,3	246		14	
42	42.7	61.9	326		15	
43	42.3	61.5	1.38		16	
44	37.3	57.0	236		17	
45	35,3	54.7	8.9		18	
46	38.1	58.9	171		19	
37	34.2	48,0	276	509	5.0	
43	33.7	52.6	176		21	
44	30.9	50.1	5.0		55	
41	30.3	48.5	50		23	
39	34.1	51.7	73		24	
46	32.1	51.5	137		25	
45	26.3	45.5	75		56	
37	35 • 1	49.7	559	1 4 4	27	
41	28,1	46.3	55		58	
46	26.4	46.8	106		50	
43	26.9	44.3	70		30	
46	24.9	46.1	105		31	
48	50.0	50.4	52	11	32	
41		57.6	112		33	DDA
39	25.3	38.5	24		34	DRA
70 (*)		77 7	10		7 5	

DRAFT SEP 3 1976

IGHTING FACTORS)

26.1

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38.5 37.7

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BLM RANKING BASED ON COLUMN P (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION DEPARTMENT OF THE AIR FORCE - SAMSO

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APPENDIX

G-2

RANKING PASED ON CEDIFCHNICAL FACTORS (Q)

٧	ALLEY			Ħ	ANKTNG	SCORES	S*
MO.	NAME	p	ŗ	₽	S	T	IJ
-							
4/1	HOT CREEK MVB	8	52	43	42.3	61.5	138
52	BENUAER WAR	Ó	50	41	44.5	62.7	157
55	FALSTIN HVR	9	50	48	45.7	67.1	238
60	TIKARDO NVR	4	50	37	35.1	49.7	وجج
43	CARDEN/COAL NVS	8	49	42	42.7	61.9	326
51	PAHRANAGAT NVR	5	49	39	34 1	51.7	73
53	RATLEDAD NVP	11	49	36	48.9	64.9	243
57	STONE CARIN MVR	6	49	46	38.1	58.9	171
45	THOTAN SPRING NVB	Š	48	48	29.0	50.4	52
5/4	HAILROAD/REVETLLE NVO	ä	uß	44	44.7	65.3	247
50	THREE LAKES NVA	· 1	48	35	26.1	37.7	19
36	ARTELOPE NVB	3	06	41	28.1	46.3	55
37	ATG SMOKY NVA	Я	46	44	39.9	58.3	246
30	CLAYTON-ALKALI SPRING HVB	6	46	45	35.3	54.7	RQ
ú2	DRY LAKEZMULESHIE NYP	ņ	46	42	44.2	62.6	2A9
48	LITTLE SMOKY NVH	Q	46	40	43.4	42.4	310
35	AMARGUSA DESERT NVR	4	45	46	32.1	51.5	137
15	BUTLER AZB	9	45	43	41.0	59.3	230
61	WHITE RIVER UVB	10	45	41	43.7	60.5	203
47	LITTLE FISH LAKE MVB	1	44	39	22.3	38.5	۵ ۵
10	MC MILLEN A79	10	44	41	44.1	59.5	201
40	CHYPTE SPRIKANE SPR NVR	٠,	43	3.7	34.2	48.0	276
4.1	DELAMAR/PAHROC NVS	5	43	43	33.7	52.6	176
46	JAKES NVR	ς.	42	46	26.4	46.8	106
49	MONITOR MAR	5	42	44	30.9	50.1	50
56	SARCORATUS FLAT NVR	3	42	43	26.9	44.3	70
17	HARDIAHALA PLATN AZB	13	41	41	49.7	65.1	352
50	NEWARK NVH	5	41	41	30.3	43.5	50
21	PALOMAS/HYDER AZE	11	41	43	46.5	63.9	295
ڋڋ	FANFGRAS PLATM AZB	17	59	40	58.7	74.5	356
16	CACTUS PLATN AZB	9	38	46	37.5	56.9	131
18	LA POSA PLAIN AZB	А	3 H	44	37.3	57.0	236
58	STONEWALL FLAT WVH	3	37	46	24.0	46.1	105
48	CAVE NVR	4	36	45	26.3	46.5	75
68	JORNADA DEL MUERTO NAB	Ş	33	41	21.8	37.6	112
20	MOHAVE WASH AZB	0	0	0	• 0	. 0	0

*RANKING SCORES

- P = AREAL RANKING SCORE (A+B)
- D = GEOTECHNICAL RANKING SCORE (D+F+F+G+1+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+0)
- S = COMPINED AREAL AND GEOTECHNICAL SCORE (P+R WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+0+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY APFA
- V = SUITABLE AREA (U) EXCLUDING WILDLIFF OR WILDERNESS AREAS
- N = NUMERICAL RANK

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ASED ON GEOTECHNICAL FACTORS (Q)

		R	ANKING	SCORE	S*		
p	r	R	S	T	U	V	W
Ą	52	43	42.3	61.5	138		1
Q	50	41	44.5	62.7	157		7
9	50	48	45.7	67.1	238		.3
4	5 0	37	35.1	49.7	529	144	4
8	40	42	42.7	61.9	326		5
5	49	39	34.1	51.7	7.3		6
11	49	36	48.9	64.9	243		7
6	49	46	38.1	58.9	171		8
5	48	48	29.0	50.4	52	11	9
9	ug	44	44.7	65.3	247		10
1	48	35	26.1	37.7	19		11
3	06	41	28.1	46.3	55		12
8	46	44	39.9	58,3	246		13
6	46	45	35.3	54.7	89		14
9	46	42	44.2	62.6	589		15
Q	46	40	43.4	62.4	310		16
4	45	46	32.1	51.5	137		<u>1</u> 7
9	45	43	41.0	59.3	230		18
10	45	41	43.7	60.5	203		19
1	44	39	25.3	38.5	24		20
10	11 11	41	44.1	59.5	201		21
5	43	37	34.2	48.0	276	509	22
5	43	43	33.7	52.6	176		23
4	45	46	26.4	46.8	106		24
5	42	44	30,9	50.1	50		25
3	45	43	26.9	44.3	70		26
13	41	41	49.7	65.1	352		27
5	41	41	30.3	48.5	50		85
1.1	41	43	46.5	63.9	295		53
17	59	40	58.7	74.5	356		50
9	38	46	37.5	56.9	131		31
Ą	38	44	37.3	57.0	236		32
3	57	46	54.9	46.1	105		33
4	36	45	26.3	46.5	75		34
5	33	41	8.15	37,6	112		35
0	n	0	• Ú	• 0	0		36

DRAFT SEP 3 1976

€+I+J+K+L)

RE (P+Q WITH WEIGHTING FACTORS)

8)

E OR WILDERNESS AREAS

BLM RANKING BASED ON COLUMN Q (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

G-3

<u>ugro national, inc.</u>

RANKING BASED ON CULTURAL FACTORS (R)

v	ALLEY			F	ANKING	SCORE	S*			
tvn.	NAME	þ	ĽI	R	S	Ť	U	٧		
45	TODIAN SPRING AVE	2	48	48	29.0	50.4	52	11		
55	RALSTIM NVA	9	50	48	45.7	67.1	238	•		
35	ANARGOSA DESERT NVR	4	45	46	32.1	51.5	1 37			
16	CACTUS PLATH AZR	9	38	46	37.5	50.9	131			
46	JAKES NVA	3	11 2	46	26.4	46. A	106			
57	STONE CARTH NVB	6	49	46	38.1	58.9	171			
58	STONEWALL FLAT NVB	3	37	46	24.9	46.1	105			
38	CAVE NVB	4	36	45	26.3	46.5	75			
30	CLAYTON-ALKALI SPRING NVR	6	46	45	35.3	54.7	ŖĢ			
37	BIG SMOKY NVB	8	46	44	39,9	58.3	246			
18	LA POSA PLATN AZA	8	3.8	44	37.3	57.0	236			
49	MONITOR NVB	5	42	114	30.9	50.1	50			
54	RATERNAD/PEVELLE NVR	9	48	44	44.7	65.3	247			
15	BUTLER AZB	9	45	43	41.0	59.3	230			
41	DELAMARZPAHROC NVB	5	43	43	33.7	52.6	176			
44	HOT CREEK NVR	B	52	<i>u</i> 3	42.3	61.5	138			
15	FALDMASZHYDER AZB	11	41	43	46.5	63.9	295			
56	SARCOBATUS FLAT IVA	3	42	43	26.9	44.3	70			
47	DRY LAKE/MIRESHOF NVH	0	46	45	44.2	62.6	289			
43	GARDEN/COAL NVR	8	49	u 2	42.7	61.9	326			
36	ASTELOPE NVB	3	46	41	28.1	46.3	55			
17	HARDHAHALA PLATM AZH	13	41	41.1	49.7	65.1	352			
68	JURNADA DEL MUERTO NAH	5	3.3	41	8.15	37.6	112			
19	MC MULLEN AZR	10	04	41	44.1	59.5	201			
50	NEWARK NVB	5	41	41	30.3	48.5	50			
52	PENOYER NVB	9	50	41	44.5	62.7	157			
61	WHITE RIVER NVR	1 0	45	41	43.7	60.5	203			
418	LITTLE SMOKY NVR	9	46	(10	43.4	62.4	310			
25	RANEGRAS PLAIN AZR	17	39	40	58.7	74.5	356			
47	LITTLE FISH LAKE MVP	1	4/1	39	22.3	38.5	24			
51	PAHRANAGAT NVH	5	40	39	34.1	51.7	73			
40	CHYPTE SPRZKANE SZR NVB	5	43	37	34.2	48.0	276	508		
60	TIKAROO NVB	4	50	37	35.1	49.7	559	144		
53	HATI.ROAD NVB	11	49	36	48.9	64.0	243			
59	THAFF LAKES NVA	t	UB	35	26.1	37.7	19	į		
50	MOHAVE WASH AZR	0	0	0	• 0	• 0	ŋ	1		

*RANKING SCORES

- P = AREAL RAMKING SCOPE (1+B)
- R = GENTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+O)
- S = COUBINED AREAL AND GEDIECHNICAL SCORE (P+9 WITH MEIGHTING FACTORS)
- T = FINAL SCORE (P+R+R WETCHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SHITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- W = NUMERICAL RANK

BLM (

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	RANKING				
F	8	T	11	V	W
n P		50.4	52	11	1
9.8	45.7	67.1	238		5
46		51.5	137		3
96	37.5	56.9	131		4
46	26.4	46.R	106		5
46		58.9	171		6
46		46.1	105		7
45		46.5	75		8
05		54.7	ĄQ		Ģ
44	•	58.5	246		10
44		57.0	236		1.1
4		50.1	50		12
44	•	65.3	247		1.3
4.3		59,3	230		14
0 3	•	52.6	176		15
Ø 3	•	61.5	138		16
4 3		63.9	295		17
43		44.3	70		18
42		65.6	289		19
a 2		61.9	326		50
4 1		46.3	55		21
u 1	-	65.1	352		55
4 1		37.6	112		23
4 1		50.5	201		24
41		48.5	50		25
4)		62.7	157		56
41		60.5	203		r 7
Ø 0		4.54	310		28
40	•	74.5	356		29
39		38.5	24		30
39	-	51.7	73		31
37		48.0	276	209	32
37	•	49.7	559	144	33
36		64.9	243		34
35		37.7	19		35
0	.0	• 0	0		36

DRAFT SEP 3 1976

GHTING FACTORS)

AREAS

BLM RANKING BASED ON COLUMN R (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

G-4

UGRO NATIONAL, INC

RANKING BASED ON AREAL AND GEOTECHNICAL FACTORS (S)

v	ALI, EY			þ	ANKING	SCORES	S*	
N'∩ •	HAME	þ	G.	R	S	T	ti	V.
2.5	RANEGRAS FLATN AZR	17	5 0	40	58.7	74.5	356	
17	HARGHAHALA PLATN AZR	13	41	41	49.7	65.1	352	
53	RATERIAD NVH	11	49	36	48.9	64.9	243	
اَحَ	PALUMASZHYDER AZR	11	41	43	46.5	63.4	205	
55	RALSTON NVB	Ģ	50	48	45.7	67.1	238	
54	RAILROAD/REVETLLE NVB	9	48	44	44.7	65.3	247	
52	PENDYER NVA	9	50	41	44.5	62.7	157	
42	DRY LAKE MULESHOE NVB	9	46	42	44.2	62.6	289	
19	MC MULLEM AZB	10	44	41	44.1	59.5	201	
el	WHITE RIVER NVB	10	45	41	43.7	60.5	203	
48	LITTLE SMOKY NVH	9	46	40	43.4	62.4	310	
43	GARDEN/COAL NV9	À	43	42	42.7		326	
44	HOT CREEK NVB	8	څ۶	43	42.3	61.5	138	
15	BUTLER AZB	á	15	43	41.0	59.3	230	
37	BIG SMOKY NVB	8	46	44	39.9	58.3	246	
57	STONE CARIN NVR	6	49	46	38.1	58.9	171	
16	CACTUS PLAIN AZR	9	7 8	46	37.5	56.9	131	
18	LA PUSA PLAIN AZR	д	38	44	37.3	57.0	236	
59	CLAYTON-ALKALI SPRING NVB	6	46	45	35.3	54.7	89	
60	TTKARDO UVA	4	50	37	35.1	49.7	229	14
40	COYOTE SPRIKANE SPR NVB	5	43	37	34.2	48.0	276	20
51	PANRANAGAT NVA	5	49	39	34.1	51.7	73	
41	DELAMAR/PAHROC NVB	5	4.5	43	33.7	52.6	176	
35	APARGOSA DESERT NVB	4	45	46	32.1	51.5	137	
40	MINTTOR NVR	5	42	44	30.9	50.1	50	
50	NEWARK NVR	5	4.1	41	30.3	48.5	50	
45	THOTAN SPRING NVR	خ	18	48	29.0	50.4	52	1
35	ANTELOPE NVR	3	46	41	28.1	46.3	55	•
56	SARCHBATUS FLAT NVB	3	12	43	26.9	44.3	70	
46	JAKES NVR	3	42	46	26.4	46.8	106	
5 pa	CAVE NVB	4	36	45	26.3	46.5	75	
59	THREE LAKES NVR	1	48	35	26.1	37,7	19	
58	STONEWALL FLAT HVB	3	37	46	24.9	46.1	105	
47	LITTLE FISH LAKE NVB	1	44	39		38.5	24	
68	JORNADA DEL MUERTO MMB	Ś	33	41	21.8	37.6	112	
20	MICHAVE WASH AZB	0	0	ō	. 0	. 0	0	
					-	-		

*RANKING SCORES

- P = AREAL RANKING SCHPE (A+A)
- Q = GERITECHNICAL RANKING 3CORF (0+E+F+G+I+J+K+L)
- R = CULTURAL PANKING SCORE (C+H+M+N+D)
- S = COMMINED AREAL AND GEOTECHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)
- T = FIGAL SCORE (P+Q+R WEIGHTING FACTORS)
- U = SUTTABLE VALLEY AREA
- V = SUITABLE APEA (4) EXCLUDING WILDLIFE OR WILDERMESS AREAS
- H = NUMERICAL RANK



EDTECHNICAL FACTORS (S)

ANKING	SCORE	/S*		
S	T	Ų	٧	W
58.7	74.5	356		i
49.7	65.1	352		۶
48.9	64.9	243		3
46.5	63.4	295		4
45.7	67.1	238		5
44.7	65.3	247		6
44.5	62.7	157		7
44.2	62.6	289		Ą
44.1	59.5	201		9
43.7	60.5	203		10
43.4	62.4	310		11
42.7	61.9	326		12
42.3	61.5	138		13
41.0	59.3	230		14
39.4	58.3	246		15
38.1	58.3 58.9	171		16
37.5	56.9	131		17
37.3	57,0	236		18
35,3	54.7	89		19
35.1	49.7	229	144	20
34.2	48.0	276	209	21
34.1	51.7	73	-	2.2
33.7	52.6	176		23
32.1	51.5	137		24
30.9	50.1	50		25
30.3	48.5	50		26
29.0	50.11	52	11	27
28.1	46.3	55		28
26.9	44.3	70		59
26.4	46,8	106		30
26.3	46.5	75		51
26.1	37.7	19		32
24.9	46.1	105		33
22.3	38.5	24		34
21.8	37,6	112		35
. 0	• 0	0		36

DRAFT SEP 3 1976

TING FACTORS)

EAS

BLM RANKING BASED ON COLUMN S
(INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO G-5

IGRO NATIONAL INC.

RANKING BASED ON FINAL SCORE (T)

v	ALLEY			R	ANKING	SCORE	S*
NO.	NAME	Þ	G	R	S	T	U
22	PANEGRAS PLATN AZR	17	39	40	58.7	74.5	356
55	PALSTON NVA	9	50	48	45.7	67.1	238
54	RAILROAD/REVEILLE NVB	9	48	44	44.7	65.3	247
17	HARGUAHALA PLATH AZR	13	41	41	49.7	65.1	352
53	RATIRDAD AVR	11	49	36	48.9	64.9	243
21	PALEMAS/HYDER AZB	11	41	43	46.5	63.9	295
52	PENDYER NVA	Q	50	41	44.5	62.7	157
42	DRY LAKE / MULESHITE AVA	9	46	42	44.2	62.6	289
48	LITTLE SHOKY NVA	9	46	40	43.4	62.4	310
43	GARDEN/COAL NVP	8	49	42	42.7	61.9	326
44	HIT CREEK NVB	8	52	u 3	42.3	61.5	138
61	WHITE RIVER NVB	10	45	41	43.7	60.5	203
19	MC MULLEN AZA	10	44	41	114.1	59.5	201
15	PUTLER AZE	9	45	43	41.0	59.3	230
57	STONE CABIN NVR	6	49	46	38.1	50.9	171
37	FIG SMOKY NVB	Я	46	44	39.9	58.3	246
18	LA PUSA PLAIN AZR	8	38	114	37.3	57.0	236
16	CACTUS PLATN AZE	9	38	46	37.5	56.9	131
39	CLAYTON-ALKALT SPRING NVR	6	46	45	35.3	54.7	89
41	CELAMAR/PAHROC NVR	5	43	43	33.7	52.6	176
51	FAHRANAGAT NVP	5	49	39	34.1	51.7	73
35	AMARGOSA DESERT NVB	4	45	46	32.1	51.5	137
45	INDIAN SPRING NVB	5	44	48	29.0	50.4	52
49	FONITOR NVR	5	42	44	30,9	50.1	50
60	TIKAROO NYB	4	50	37	35.1	49.7	559
50	PEWARK NVR	5	41	41	30.3	48.5	50
u n	COYOTE SPRIKANE SPR NVB	5	43	37	34.2	48.0	276
46	TAKES NVA	3	42	46	26.4	46.8	106
3.8	FAVE NVB	4	36	45	26.3	46.5	75
36	ANTELOPE NVR	3	46	41	28.1	46.3	55
5 A	STONEWALL FLAT UVR	3	37	46	24.9	46.1	105
56	SAPCORATUS FLAT NYB	3	42	43	26.9	44.3	71
47	LITTLE FISH LAKE MVH	1	44	39	25.3	58,5	24
59	THREE LAKES NVB	3	4B	35	26.1	37.7	19
6.8	AMN OTHRIUM 130 AGAINGIL	7	33	a t	21.8	37.6	112
20	LUHAVE WASH AZR	Ø	0	0	• 0	• 0	0

*PANKING SCORES

- P = AFEAL RANKING SCORE (A+B)
- O = GEOTECHNICAL PANKING SCORE (D+E+F+G+I+J+K+L)
- P = CULTURAL RANKING SCORF (C+H+M+H+H)
- S = (CHAINED AREAL AND GEOTECHNICAL SCORE (P+Q VITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+O+R WEIGHTING FACTORS)
- U = SUTTABLE VALLEY AREA
- V = SUITABLE AREA (U) EXCLUDING WILDLIFF OR WILDERNESS APEAS
- W = NUMERICAL RAME



	71	ANKING	SCORE	S *			
G	R	S	Ť	U	٧	W	
39	40	58.7	74.5	356		1	
50	48	45.7	67.1	238		5	
48	44	44.7	65.3	247		3	
41	41	49.7	65.1	352		4	
49	36	48.9	64.9	243		5	
41	43	46.5	63.9	295		6	
50	41	44.5	62.7	157		7	
46	45	44.2	62.6	289		8	
46	40	43.4	62.4	310		9	
49	42	42.7	61.9	326		10	
52	43	42.3	61.5	138		11	
45	41	43.7	60.5	203		12	
44	41	44.1	59.5	201		13	
115	43	41.0	59.3	230		14	
49	46	38.1	5A 0	171		15	
46	44	39.9	58.3	246		16	
38	/14	37.3	57.0	236		17	
38	46	37.5	56.9	131		18	
46	45	35.3	54.7	89		19	
43	43	33.7	52.6	176		20	
49	39	34.1	51.7	73		21	
45	46	32.1	51.5	137		25	
44	48	29.0	50.4	52	11	23	
42	44	30,9	50.1	50	• •	24	
50	37	35.l	49.7	229	144	25	
41	41	30.3	48.5	50		56	
43	37	34.2	48.0	276	209	27	
42	16	26.4	46.8	106		85	
36	45	26.3	46.5	75		29	
46	41	28.1	46.3	55		30	
37	46	24.9	46.1	105		31	
42	43	26.9	44.3	70		32	
44	39	55.3	58,5	24		33	88.
48	35	26.1	37.7	19		34	DRA
33	41	21.8	37.6	112		35	
3,	0	.0	.,,,0	115		36	SEP 3

WITH WEIGHTING FACTORS)

DERNESS AREAS

BLM RANKING BASED ON COLUMN T (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX
G-6

UBRO NATIONAL, INC.

	VALLEY						RAN	4KING	FA	CTOR	S*			
NO.	NAME	۵	4	C	D	F	F	G	Н	Ī	J	K	L	М
15	BUTLER AZB	4	5	9	5	3	5	4	8	7	9	2	10	10
	CACTUS PLATN AZB	3	6	10	5	3	ĺ	3	A	4	7	6	- g	10
	HARQUAHALA PLAIN AZB	7	6	10	5	3	5	3	5	7	A	ج	p	10
	LA POSA PLATM AZA	5	3	9	5	3	ō	4	9	6	9	Š	g	10
	MC MULLEN AZR	4	6	1.0	5	2	5	4	5	Q	А	Š	q	10
	MOHAVE WASH AZR	0	0	Ō	0	0	'n	n	0	0	0	n	0	0
	PALDMAS/HYDER AZB	6	5	10	5	3	1	4	7	8	9	2	9	10
	RANEGRAS PLATH AZR	7	10	10	5	3	1	4	6	7	9	Ž	А	10
35	AMARGUSA DESERT NVB	3	1	10	5	3	2	3	8	9	6	Ą	9	10
	ANTELOPP NVH	1	2	8	5	3	4	3	Q	8	9	4	10	10
37	RIG SMOKY NVR	5	3	1.0	5	3	5	5	8	A	8	2	1.0	1.0
38	CAVE NVB	1	3	8	41	5	2	2	9	6	7	8	5	10
39	CLAYTON-ALKALI SPRING NVB	2	/1	10	5	3	3	5	G	9	7	4	1.0	10
40	COYOTE SPRIKANE SPR NVB	4	1	1.0	5	2	2	3	5	G)	А	4	1.0	10
41	DELAMAR/PAHROC NVB	3	5	1.0	4	3	2	3	1.0	9	7	6	9	10
42	DRY LAKE/MULESHOF NVB	6	3	1.0	5	3	2	U	10	Ą	6	10	Ą	10
43	GARDEN/COAL NVB	6	2	Ą	5	3	4	4	10	8	8	10	7	1.0
44	HOT CREEK MVP	3	5	10	5	3	4	5	9	Я	9	B	10	6
45	INDIAN SPRING NVA	1	1	10	4	ڄ	1	4	10	9	9	10	9	10
	JAKES NVR	>	1	1.0	5	3	2	3	10	6	Я	1.0	5	10
47	LITTLE FISH LAKE NVB	1	0	1.0	5	2	4	5	7	8	8	Š	10	6
48	LITTLE SMOKY NVB	6	3	Ą	r ,	3	4	4	10	В	Ŗ	4	10	6
40	MONITOR NVR	1	4	8	۲,	2	3	4	8	А	Q	5	0	10
51	NEWARK NVR	1	4	А	4	3	3	3	9	7	9	и	А	10
51	PAHRANAGAT NVR	1	Ц	8	5	3	3	5	9	9	6	A	10	10
52	PENOYER NVR	3	6	8	5	3	5	4	9	10	Q	4	10	10
53	PATERDAD MVR	5	6	Ŗ	5	3	4	5	8	9	9	/1	10	Ŗ
54	RATERMADIREVETILE NVB	5	4	R	4	3	て	4	10	B	8	A	10	8
55	RALSTON NVR	5	4	10	/1	3	4	3	10	А	9	1.0	9	10
56	SAPCOBATUS FLAT NVB	1	5	10	4	2	3	4	7	В	Ģ	5	10	10
57	STONE CARTM NVR	3	3	10	5	3	ኣ	3	10	9	9	А	9	8
	STANFHALL FLAT NVR	ج	1	Ą	5	ج	2	4	10	R	6	2	R	10
	THPFF LAKES NVH	1	0	P,	5	ح	5	2	1	10	10	u	10	10
_	TIKAROO NVA	3	0	8	5	ج	3	3	5	9	9	10	9	10
	WHITE RIVER NVR	4	6	10	5	3	ü	5	7	8	9	5	9	10
-	JORNADA DEL MUFRTO MMR	8	0	10	ű	ž	1	Ř	5	7	7	Ž	R	8

WEIGHTING FACTORS

2,7 2,2 ,1 ,1 ,1 ,1 ,1 ,0 1,0 ,5 ,5 ,5 ,3

*PANKING FACTORS

**RANKING SCOR

A = SUITABLE VALLEY AREA

B = SUITABLE CONTIGUOUS AREA

C = OWNERSHIP AND CONTROL (AMOUNT AND QUALITY)

P = GEOLOGY AND SOILS ENGINEERING (AMOUNT AND QUALITY)

E = DEPTH TO ROCK (AMOUNT AND OHALITY)

F = DEPTH TO WATER (AMOUNT AND QUALITY)

G = SURFACE HYDROLOGY (AMOUNT AMO QUALITY)

H = OWNERSHIP AND CONTROL (FAVORABILITY)

T = GEOLOGY AND SOILS ENGINEERING (FAVORABILITY)

J = DEPTH TO ROCK (FAVORABILITY)

K = DEPTH TO WATER (FAVORABILITY)

L = SURFACE HYDROLOGY (FAVORABILITY)

H = PHIENTIAL TMPACT (MILITARY)

N = POTENTIAL IMPACT (CTVTLTAM)

O = DISTANCE TO SUPPOPT FACILITIES (MILITARY AND CIVILIAN)

P = AREAL RANKING SCOR

O = GFOTECHNICAL RANKI

R = CHLTHRAL PANKING

S = AREAL + GENTECHNIC

T = FINAL SCORE (P+0+

DRAFT SEP 3 1976

O,)_

FΔ	CTOR	5*							RANKING		SCORES**	
Н	Ī	J	K	ί	M	M	O	P	Q	R	S	Ť
l												
8	7	9	2	10	10	8	8	9	45	43	41.0	59,3
A	4	7	6	9	10	B	10	9	38	46	37.5	56.9
5	7	8	2	8	10	8	Я	13	41	41	49.7	65.1
9	6	9	Ś	9	10	6	10	8	38	44	57.5	57.0
5	Û	А	2	9	1.0	8	8	10	44	41	44.1	59,5
0	0	0	0	O	0	0	0	0	0	0	•	. 0
7	8	9	2	9	10	8	8	11	41	43	46.5	63,9
6	7	9	2	А	10	6	8	17	39	40	58.7	74.5
8	9	6	8	9	10	8	10	4	45	46	32.1	51.5
C	8	9	4	10	10	8	6	3	46	41	28.1	46,3
8	А	8	2	10	10	8	8	8	46	14.44	39,9	58,3
9	6	7	8	5	10	8	1.0	4	36	45	26.3	46,5
9	9	7	4	1.0	10	8	8	6	46	45	35,3	54.7
5	9	А	4	10	10	10	6	5	43	41	34.2	49.2
10	9	7	6	9	10	8	5	5	43	43	33,7	52.6
10	Ą	6	10	8	10	A	4	9	46	42	44.5	62.6
10	8	8	10	7	1.0	8	6	8	49	42	42.7	61.9
9	R	9	В	10	6	8	1.0	8	52	43	42.3	61.5
10	9	9	10	9	1.0	10	1.0	2	48	50	44.0	51.0
10	6	я	1.0	5	10	8	8	3	42	46	26.4	46.8
7	8	8	2	10	6	А	8	1	44	39	22.3	38,5
10	А	Ŗ	4	1.0	6	8	8	9	46	40	43.4	62.4
8	A	4	5	0	10	8	10	5	42	44	30.9	50.1
9	7	9	4	8	10	8	6	5	41	41	30.3	48.5
9	9	6	8	1.0	10	6	6	5	49	39		51,7
9	10	9	4	10	10	8	6	9	50	41	34.1 44.5 48.9	62,7
8	9	9	11	10	- 8	6	5	11	49	36	48,9	64.9
10	Ą	8	А	1.0	8	8	1.0	9	48	44	44.7	65.3
10	А	9	1.0	9	10	B	10	9	50	48	45.7	67.1
7	8	Ģ	5	10	10	8	8	3	42	43	56.9	44.3
10	9	9	8	9	8	А	1.0	6	49	46	38.1	58,9
10	R	6	2	А	10	8	10	3	37	46	24.9	46.1
1	1.0	10	U	10	10	6	1.0	1	48	35	26.1	37,7
5	9	9	10	9	10	10	А	3	50	41	32.4	48.2
7	8	9	5	9	10	- 6	8	10	45	41	43.7	60.5
5	7	7	2	A	8	8	10	5	33	41	8,15	37.6

FACTORS

.0 1.0 .5 .5 .3 .3 .5

**RANKING SCORES

- P = AREAL RANKING SCORE (4+8)
- Q = GEOTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL PANKING SCORE (C+H+M+N+D)
- S = AREAL + GEDTECHNICAL SCORE (P+0 WITH WEIGHTING)
- T = FINAL SCORF (P+Q+R WITH WEIGHTING)

DRAFT SEP 3 1976 MATRIX ANALYSIS BLM VALLEYS (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

G-7

UGRO NATIONAL INC.

RANKING HASED ON ARFAL FACTORS (P)

ν	ALLEY			R	ANKING	SCORE	S*	
٧n.	NAME	Р	0	R	3	Ť	U	٧
22	RANEGRAS PLAIN AZB	17	34	40	58,7	74.5	356	
17	HAPQUAHALA PLATH AZR	1.3	41	41	49.7	65.1	352	
21	PALOMAS/HYDER AZR	11	41	43	46.5	63,9	295	
53	RAILROAD NVB	1.1	49	36	48.9	64.9	243	
10	MO MULLEN AZB	1 1	4.4	a t	44.1	57.5	105	
61	WHITE RIVER NVB	10	45	41	43.7	60.5	203	
15	BUTLER A76	Ç	45	43	41.0	59.3	230	
16	CACTUS PLAIN AZP	Q	38	46	37.5	56.9	131	
42	DRY LAKEZMILESHOF MVR	Q	46	45	44.2	62.6	289	
48	LITTLE SMOKY NVP	Û	46	40	43.4	62.4	310	
52	PENNYER NVR	4	50	41	44.5	62.7	157	
54	RATERDAD/REVETELE NVR	Ġ	48	11 4	44.7	65.3	247	
55	FALSTON NVB	9	50	ЦΚ	45.7	67.1	238	
37	RIG SMOKY NVR	A	46	71.77	39.4	58.3	246	
43	GARDEN/COAL NVR	8	119	42	42.7	61.9	326	
44	POT CREEK NVR	B	5.2	43	42.5	61.5	138	
18	LA POSA PLATA AZE	A	38	44	37.3	57.0	236	
39	CLAYTON-ALKALT SPRING NVB	•	46	45	35.3	54.7	A9	
57	STONE CARIN MVB	6	49	46	38.1	58.9	171	
40	CHYPTE SPRIKASE SPR NVR	5	43	41	34.2	49.5	276	209
41	DELAMARIPAHROC NVB	5	43	43	35.7	52.6	176	
49	MUNITUR NVR	5	42	44	30.0	50.1	50	
50	NEWARK NVP	5	41	41	30.3	48.5	5 0	
51	PAHRANAGAT NVR	5	49	39	34.1	51.7	73	
35	AMARGOSA DESERT NVB	Ц	45	116	32.1	51.5	1 57	
3B	CAVE NVS	4	36	45	26.3	46.5	75	
36	ANTELOPE NVB	3	46	41	28.1	46.3	55	
46	JAKES MVA	3	43	46	26.4	46,8	106	
56	SARCOBATUS FLAT NVP	3	42	43	26,9	44.3	7.0	
ς p	STOMEWALL FLAT NVB	5	37	46	24.9	46.1	105	
50	TIKARI)() NVR	3	50	41	42.4	48.2	950	144
45	INDIAN SPRING NVB	ح	48	50	29.0	51.0	52	11
68	JORNADA DEL MUERTO NMB	2	33	41	21.B	37.6	112	
47	LITTLE FISH LAKE NVH	1	4.4	39	22.3	38.5	24	
50	THREE LAKES MYR	1	48	35	26.1	37.7	19	
٥٩	MOMAVE HASH AZH	9	n	0	0	. 0	n	

*RANKING SCORES

- P = AREAU RANKING SCORE (4+B)
- H = GEOTECHMICAL RANKING SCORE (D+F+F+G+1+J+K+L)
- R = CULTURAL RANKING SCORF (C+H+M+N+D)
- 3 = COMBINED AREAL AND GEOTECHMICAL SCHRE (P+D WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+0+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SUTTABLE AREA OUT FXCHIDING MILDLIFE OR MILDERNESS AREAS
- A = NUTERTON, RANK



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	R	ANKING	SCORE	S⋆				
o	R	S	T	U	٧	W		
39	40	58.7	74.5	356		1		
1	41	49.7	65.1	352		2		
1	0.3	46.5	63,9	295		3		
19 14	36	48.9	64.9	243		4		
	al	44.1	59.5	105		5		
1 5	41	43.7	60.5	203		6		
5	43	41.0	59.3	230		7		
3 8	46	37.5	56.9	131		8		
146	42	44.2	65.6	289		9		
46	40	43.4	62.4	310		10		
50	41	44.5	62.7	157		11		
άβ	44	44.7	65.3	247		12		
50	ЦŖ	45.7	67.1	238		1.3		
# 6	44	39,9	58.3	246		14		
4 9	42	45.7	61.9	326		15		
58	43	42.3	61.5	138		16		
38	44	37.3	57.0	236		17		
46	45	35.3	54.7	R 9		1.8		
09	46	38,1	58.9	171		19		
43	41	34.2	49.5	276	509	50		
43	43	34.7	52.6	176		21		
47	44	30.9	50.1	50		5.5		
41	41	30.3	48.5	50		23		
49	39	34.1	51.7	73		2.4		
45	46	32.1	51.5	1 37		25		
36	45	26.3	46.5	75		26		
46	41	28.1	46.3	55		27		
46	46	26.4	46.8	106		28		
45	43	26.9	44.3	70		29		
37	46	24.9	46.1	105	4 11 11	30	B B	
50	41	32.4	48.2	220	144	31	1)K	AFT
48	50	29.0	51.0	52	11	32	_ •.	
33	41	21.8	37.6	112		33	SEP	3 1976
44	39	22.3	38.5	24		34		
48	35	26.1	37.7	19		35		
n	0	• 0	• 0	n		36		

TH WEIGHTING FACTORS)

RNESS AREAS

BLM RANKING BASED ON COLUMN P
(EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX
G-8

RANKING BASED ON GEFTECHNICAL FACTORS (Q)

V	ALLFY	•		H	A KIND	SCOPE	S*	
NO.	NAME	P	O.	R	S	Ť	11	V
<i>a 4</i>	HOT CREEK NVA	a	52	43	42.3	61.5	138	
52	PENNYER NVR	()	6 3 ()	<i>u</i> 1	44.5	62.7	157	
55	PALSTON NVR	9	50	48	45.7	67.1	238	
60	TTKABOH NVG	3	50	41	32.4	44.2	550	144
43	GARDEN/COAL NYR	Я	49	11 2	42.7	61.9	326	
51	PAHRANAGAT NVB	5	49	79	34.1	51.7	73	
53	RATERIAD NAR	11	49	36	48.9	64.9	243	
57	STONE CARIN NVB	6	49	46	38.1	58.9	171	
45	JUDIAN SPRING NVR	2	48	5 ()	29.0	51.0	52	1 1
54	PATERNAN/REVETELE MVR	4	38	44	44.7	65.3	247	
59	THREE LAKES MVR	1	48	35	26.1	37.7	19	
36	ANTELOPE NVB	3	46	41	28.1	46.3	55	
37	RIG STOKY NVR	B	46	44	39.9	58.3	246	
30	CLAYTON-ALKALI SPRING MVB	6	46	45	35.3	54.7	89	
42	DRY LAKE/MULESHOE NVP	9	46	u 2	44.2	42.6	PRO	
118	LITTLE SMOKY HVR	9	46	40	43.4	62.4	310	
35	AMARGUSA DESERT MVP	4	45	46	32.1	51.5	137	
1.5	PITLER AZB	?	45	43	41.0	59.3	230	
61	BHITE RIVER NVB	10	45	41	43.7	60.5	203	
47	LITTLE FISH LAKE NVH	1	11 14	39	22.3	38.5	24	
117	MC HILLEN AZR	10	4.0	41	44.1	59.5	105	
40	COYOTE SPRIKANE SPR NVR	5	43	41	34.2	49.2	276	508
41	DELAMAR/PAPROC NVB	5	43	43	33.7	52.6	176	
46	JAKES YVR	3	45	46	26.4	45.8	106	
49	MONTTOR NVA	5	117	44	30.9	50.1	50	
56	SARCHRATUS FLAT NVB	3	ج ن	43	26.9	44.3	70	
17	HARQUAHALA PLATM 678	13	4.1	41	49.7	65.1	352	
50	NEWARK NVA	, 5	4.1	4:1	30.5	48.5	50	
21	PALOMASZHYDER AZR	1.1	41	43	40.5	43.9	245	
22	PANEGRAS PLATH AZB	17	 	40	58.7	74.5	356	
16	CACTUS PLATM AZR	9	3 8	46	37.5	54.9	131	
18	LA PASA PLATH AZR	8	3,8	44	37.3	57.0	236	
58	STONERALL FLAT MYR	3	57	46	24.9	46.1	105	
38	CAVE NVB	4	36	45	26.3	44.5	75	
58	JARMADA DEL MUERTO NAR	7	3.5	41	21.B	37.6	112	
20	MOHAVE WASH AZR	0	0	0	• 0	. 0	0	

*RANKING SCORES

- P = APEAL RANKING SCOPE (A+A)
- A = GROTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+O)
- S = COMMINED AREAL AND GEOTECHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+R+R NEIGHTING FACTORS)
- U = SUTTABLE VALLEY AREA
- V = SUTTABLE AREA (U) EXCLUDING WILDLIFE OR WILDERWESS AREAS
- * = NIMERICAL RAUK

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F	NETNO	SCORE	S*			
R	S	T	()	٧	W	
=						
43	42.3	61.5	138		1	
41	44.5	62.7	157		5	
48	45.7	67.1	238		3	
41	32.4	S.AL	529	144	4	
115	42.7	61.9	326		5	
39	34.1	51.7	73		6	
36	48.9	64.9	243		7	
46	38.1	58.9	171		8	
50	29.0	51.0	52	11	9	
44	44.7	65.3	247		1.0	
35	26.1	37.7	19		1.1	
41	28.1	46.3	55		12	
44	39.9	58.3	246		1.3	
45	35.3	54.7	89		14	
42	44.2	45.6	9 8 9		15	
40	43.4	62.4	310		16	
46	32,1	51.5	1.37		17	
43	41.0	59.3	530		1.8	
41	43.7	60.5	203		10	
39	25.3	38.5	24		50	
41	44.1	59.5	501		21	
41	34.2	49.5	576	508	55	
43	33.7	52.6	176		23	
46	26.4	45.8	106		24	
44	30.9	50.1	50		25	
43	26.9	44.5	70		26	
41	49.7	65.1	352		27	
41	30.5	/IR.5	50		28	
43	46.5	63.9	245		29	
40	58.7	74.5	356		30	
46	37.5	55,9	131		31	
44	37.3	57.0	236		35	
46	24.9	46.1	105		33	
45	26.3	46.5	75		34	
41	21.A	37.6	112		35	
0	• 0	. 0	0		36	

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GHTING FACTORS)

ARFAS

BLM RANKING BASED ON COLUMN Q (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

G-9

RANKING PASED ON CULTURAL FACTORS (P)

٧	ALLFY			R	ANKTNG	SCURE	S*	
NO.	NAME	P	Ç	R	S	T	U	V
45	IUDIAN SPRIMG NVB	2	ан	50	29.0	51.0	52	11
55	RALSTON NVB	9	50	48	45.1	67.1	238	
35	AMARGOSA DESERT NVP	ц	45	46	32.1	51.5	137	
16	CACTUS PLATN AZR	9	3 B	46	37.5	56.9	131	
46	JAKES NVA	3	42	46	26.4	46.8	106	
57	STONE CARIN NVA	6	49	46	38.1	15 A . 9	171	
58	STONEWALL FLAT NVR	3	37	46	24.9	46.1	105	
3.A	CAVE NVB	4	36	45	26.3	46.5	75	
39	CLAYTON-ALKALT SPRING NVR	6	46	45	35.3	54.7	89	
37	HIG SMOKY NV9	Я	116	44	39.9	5A.3	246	
1.8	LA POSA PLAIN AZR	А	3.8	44	37.3	57.0	236	
1) Q	MONITOR NVR	5	42	44	30.9	50.1	5.0	
54	PATERNAD/PEVEILLE NVB	9	48	44	44.7	65.3	247	
15	BUTLER 478	9	45	11.3	41.0	59.3	230	
41	DELAMARZPAHROC NVB	5	43	43	35.7	52.6	176	
44	HOT CREEK NVR	8	52	43	42.3	61.5	138	
21	PALMMAS/HYDER AZH	11	41	43	46.5	63.3	295	
56	SARCHBATUS FLAT NVB	3	42	43	26.9	44.3	7.0	
42	DRY LAKEZMILESHOE NVB	9	46	42	44.2	62.6	289	
43	GAPDENZCOAL NVB	A	49	42	42.7	61.9	326	
36	ANTELOPE NVP	3	46	<i>a</i> 1	28.1	46.3	55	
40	COYOTE SPRIKADE SPR NVB	5	43	41	34.2	49.2	276	209
17	HARAHAHALA PLATI AZA	13	41	41	49.7	65.1	352	
68	JURNADA DEL MUERTO NAR	Ş	33	<i>t</i> ¹ 1	81.8	37.6	112	
19	MC MUILEN AZA	10	44	41	44.1	59.5	201	
50	HEWARK NVB	5	41	41	30.3	48.5	50	
52	PENITYER NVB	9	50	4 [44.5	62.7	157	
60	TIKABOO NVR	3	50	41	32.4	48.2	220	144
61	WHITE RIVER NUR	10	45	41	43.7	60.5	203	
418	LITTLE SMOKY NVR	q	46	40	43.4	62.4	310	
25	RANEGRAS PLATH AZR	17	39	40	58.7	74.5	356	
47	LITTLE FISH LAKE NVR	1	44	39	22.3	38.5	54	
51	PAHRANAGAT NVR	5	49	39	34.1	51.7	73	
53	RATERDAD NVB	11	49	36	48.9	64.9	243	
50	THREE LAKES MVR	1	44	35	26.1	37.7	19	
50	MOHAVE WASH AZR	Ò	0	Ô	.0	• 0	n	
••	· · · · · · · · · · · · · · · · · · ·				-	-		

*RANKING SCORES

- P = APFAL RANKING SCORE (A+B)
- Q = GENTECHNICAL RANKING SCHRE (D+F+F+G+1+J+K+L)
- R = CULTURAL RAMKING SCORE (C+H+M+N+O)
- S = COMBINED AREAL AND GEOTECHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+Q+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SUTTABLE AREA (II) EXCLUDING WILDLIFF OR WILDERNESS AREAS
- W = NUMERICAL MANK

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TURAL	FAC	TORS O	٧)		1		ma marine
	R	ANKTNG	SCURF	S*			
0	R	S	T	U	V	W	
48	50	29.0	51.0	52	11	1	
5 0	48	45.7	67.1	238		2	
45	46		51.5	137		3	
3 8	46		56.9	131		4	
42	46	26.4		106		5	
49	46		5a.9	171		6	
37	46	24.9		105		7	
36	45		46.5	75		8	
46	45		54.7	89		9	
46	44	39.9		246		10	
38	44	37.3	57.0	236		11	
42	44		50.1	50		12	
48	44	44.7	65 <u>.</u> 3	247		13	
45	43	41.0		230		14	
44	43	35.7		176		15	
4 4 52 41	43	42.3	61.5	138		16	
41	43	46.5	63.7	295		17	
42	43	26.9	44.3	7.0		1.8	
46	42	44.2	62.6	589		19	
49	115	42.7		326		50	
44	41	28.1	46.3	55		21	
43	41	34.2	49.2	276	509	S. S	
41	41	49.7	65.1	352		23	
33	<i>t</i> ' 1	8.15	37.6	112		24	
44	41		59.5	201		25	
41	41	30.3	48.5	50		26	
50	a 1	44.5	62.7	157		27	
50	41	32.4	48.2	220	144	2 <u>8</u>	
45	41	43.7	60.5	203		50	
46	40	43.4	62.4	310		30	
39	40		74.5	356		31	DRAFT
<i>t</i> s 4s	39		38.5	24		32	m 1/1/41
49	39	34.1	51.7	73		33	SEP 3 1976
/I O	74	/1 D C)	4 // O	2/12		3/1	OLI 0 1310

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19

0

TH WEIGHTING FACTORS)

UR.9 64.9

• 0

35 26.1 37.7

. 0

RNESS AREAS

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4 P

BLM RANKING BASED ON COLUMN R (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION

34

35

36

APPENDIX

DEPARTMENT OF THE AIR FORCE - SAMSO

G-10

RANKING RASED ON AREAL AND GEOTECHNICAL FACTORS (S)

1	ALLEY			H	ANKTHE	SCURE	S*	
NO.	NAME	ρ	Q	R	5	T	U	v f
2.5	RANEGRAS PLATN AZB	17	39	40	58.7	74.5	356	
17	HARQUAHALA PLAIN AZB	1.3	u j	41	119.7	65.1	352	
53	RATERDAD NVH	11	49	36	4R 9	64.9	243	
21	PALCIMAS/HYDER AZA	11	41	43	46.5	63.9	295	
55	PALSTON NVR	9	50	48	45.7	67.1	238	
54	PATERNAD/REVETELE NVP	9	48	44	44.7	65.3	247	
52	PENOYER NVB	9	50	41	44.5	62.7	157	
42	DRY LAKE/MULESHOE NVR	3	46	42	00.2	62.6	289	
19	PC MULLEN AZB	1.0	44	41	44.1	59.5	201	
61	WHITE RIVER NVB	1.0	45	41	43.7	60.5	203	
418	LITTLE SMOKY NVR	Q	46	4.0	43.4	62.4	310	
43	GARDENICHAL NVR	B	49	32	42.7	61.9	326	
44	HOT CREEK NVB	Я	52	43	42.3	61.5	138	
15	PUTLER AZB	Q	45	43	41.0	59.3	230	
37	RIG SMOKY NVB	8	46	44	39.9	58.3	246	
57	STONE CARTN NVR	6	49	46	38.1	58.9	171	
16	CACTUS PLAIN AZB	9	38	46	37,5	56.9	131	
18	LA POSA PLAIN AZR	8	ζA	44	37.3	57.0	236	
30	CLAYTON-ALKALI SPRING NVH	6	46	45	35.3	54.7	89	
40	COYOTE SPRIKANE SPP NV9	5	45	41	34.2	49.2	276	209
51	PAHRANAGAT NVB	5	49	39	34.1	51.7	73	
41	DELAMAR/PAHRIIC NVR	5	43	43	35.7	52.6	176	
60	TIKABOO NVR	3	50	41	32.4	44.5	529	144
35	AMARGOSA DESERT NVB	4	45	46	32.1	51.5	137	
49	HINJTOR NVB	5	42	44	30.9	50.1	50	
50	LEWARK MVA	5	41	41	30.3	48.5	50	
45	THOTAN SPRING NVB	5	48	5.0	29.0	51.0	52	11
36	ANTELOPE NVB	3	46	41	28.1	46.3	55	
49	SARCOBATUS FLAT NVR	3	42	43	26.9	44.3	7.0	
46	JAKES NVB	3	45	46	26.4	46.8	106	
38	CAME NVB	4	36	45	26.3	46.5	75	
50	THREE LAKES NVR	1	48	35	26.1	37 . 7	19	
5 A	STONFHALL FLAT NVR	3	37	46	54.9	46.1	105	
47	LITTLE FISH LAKE NVB	1	4141	39	25.3	38.5	24	
68	JORNADA DEL MUERTO NUB	2	33	41	8.15	37.6	112	
Šυ	MOHAVE WASH AZB	0	0	0	• 0	• 0	0	

*RANKING SCORES

- P = AREAU RANKING SCORE (A+B)
- Q = GENTECHNICAL RANKING SCORE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+H+O)
- 3 = COMBINED AREAL AND GEOTECHNICAL SCORE (P+Q WITH WEIGHTING FACTORS)
- T = FIMAL SCORE (P+Q+R WEIGHTING FACTORS)
- U = SUTTABLE VALLEY AREA
- V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- A = NUMPRICAL RANK

BLM R (EXCI

DEPARTMENT

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ARFAL AND GENTECHNICAL FACTORS (S)

	R	ANKING	SCORES	5*			
a	R	S	Ť	U	٧	W	
39	40	58.7	74.5	356		1	
Δj	41	119.7	65.1	352		Ś	
49	36	4A 9	64.9	243		3	
41	43	46.5	63.9	295		4	
50	48	45.7	67.1	238		5	
48	44	44.7	65.3	247		6	
50	41	44.5	62.7	157		7	
46	42	00.2	42.6	289		8	
44	41	44.1	59.5	201		9	
45	41	43.7	60.5	203		10	
46	40	43.4	62.4	310		11	
49	a2		61.9	326		12	
52	43		61.5	138		1.3	
45	43		59.3	230		14	
46	44	39.0	58.3	246		15	
49	46	36.1	58.9	171		16	
38	46	37.5	56.9	131		17	
3A	44	37.3	57.0	236		18	
46	45	35.3	54.7	49		19	
43	41		49.2	276	209	ż٥	
49	39		51.7	73		21	
43	43	35.7	52.6	176		22	
50	41	32.4	44.2	229	144	23	
45	46	32.1	51.5	137		24	
42	44	30.9	50.1	50		25	
41	41	30.3	48.5	50		86	
48	50	29.0	51.0	52	11	27	
46	41	28.1	46.3	55		28	
42	43	26.9	44.3	70		29	
42	46	26.4	46.8	106		30	
36	45	26.3	46.5	75		31	
48	35	26.1	37.7	19		32	
37	46	24.9	06.1	105		33	SE
44	39	22.3	38.5	24		34	2.3
33	41	21.8	37.6	112		35	
,,	0	.0	.0	0		36	
17	•,	• *	• "	••			

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WITH WEIGHTING FACTORS)

DERNESS AREAS

BLM RANKING BASED ON COLUMN S (EXCLUDING WILDLIFE RANGES)

A Line

MX SITING INVESTIGATION DEPARTMENT OF THE AIR FORCE - SAMSO APPENDIX G-11

RANKING BASED ON FINAL SCORE (T)

V	ALIFY			A	ANKING	SCORF	S*	
MO.	NAME	P	()	B	S	T	IJ	V
2.5	FANEGRAS PLATH AZB	17	39	40	58.7	74.5	356	
35	FALSTIN NVR	9	50	48	45.7	67.1	238	
54	PAILROADIREVEILLE NVR	g	48	44	44.7	65.3	247	
17	HARRIIAHALA PLATA AZR	13	41	#1	49.7	65.1	352	
53	RATEROAD NVR	11	49	36	48.9	64.9	243	
21	PALTMAS/HYDER AZB	11	4.1	43	46.5	63.9	295	
52	PENNYER NVR	9	50	// 1	44.5	62.7	157	
42	DRY LAKE/MULESHOF NVR	9	46	42	04.2	62.6	289	
4B	ITTLE SMOKY NVA	9	46	40	43.4	62.4	310	
43	GARDEN/COAL NVB	8	49	45	42.7	61.9	326	
44	POT CREEK NVB	8	52	43	42.3	61.5	138	
61	HHITE RIVER NVP	10	45	41	43.7	60.5	203	
19	MC MULLEN AZB	10	44	41	44.1	59.5	201	
15	BUILER AZB	9	45	43	41.0	59.3	230	
57	STONE CARTN NVR	6	47	46	38.1	58.9	171	
37	BIG SMOKY NVR	8	46	44	39.9	58.3	246	
18	LA POSA PLATN AZR	д	38	44	37.3	57.0	236	
16	CACTUS PLAIN AZP	9	34	46	37.5	56.9	131	
30	CLAYTON-ALKALT SPRING NVH	6	46	45	35.3	54.7	89	
41	DELAMAR/PAHROC MVR	5	43	43	33.7	52.6	176	
51	PAHRANAGAT NVP	5	49	39	34.1	51.7	73	
35	AMARGOSA DESERT MVB	4	45	46	32.1	51.5	137	
45	INDIAN SPRING NVB	2	48	50	29.0	51.0	52	11
49	MONITOR MVB	5	42	44	30.9	50.1	50	
40	COYOTE SPRIKANE SPR NVB	5	43	41	34.2	49.2	276	209
50	MENAPK NV4	5	U)	41	30.3	48.5	50	
60	TTKABOO NVB	3	50	41	32.4	48.2	559	144
46	JAKES NVR	3	42	46	26.4	46.8	106	
38	CAVE NVB	4	36	45	26.3	46.5	75	
36	ANTELOPE NVR	3	46	41	28.1	46.3	55	
58	STONEWALL FLAT NV6	3	37	46	24.9	46.1	105	
56	SARCOBATUS FLAT NVB	3	42	43	26.9	44.3	70	
47	LITTLE FISH LAKE NVB	1	44	39	22.3	38.5	24	
50	THREE LAKES NVA	1	4 R	35	26.1	37.7	19	
58	JORNADA DEL MUERTO NMH	2	33	41	21.8	37.6	112	
20	MINANE WASH AZB	Ò	0	0	. 0	.0	0	

*RANKING SCORES

- P = AREAL RANKING SCORE (A+B)
- Q = GEOTECHNICAL RAMKING SCOPE (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+0)
- S = COMBINED AREAL AND GEDIFFINICAL SCORE (P+0 WITH WEIGHTING FACTORS)
- T = FINAL SCORE (P+D+R WEIGHTING FACTORS)
 - H = SHITABLE VALLEY AREA
 - V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
 - W = MIMERICAL RANK

BLM RA (EXCL

MX SE DEPARTMENT



R	ANKING	SCORF	S*			
R	\$	T	IJ	V	W	
40	58.7	74.5	356		1	
48	45.7		238		2	
44	44.7		247		3	
#1		65.1	352		4	
36	48.9				5	
43	46.5	63.9	295		6	
// 1	44.5	62.7	157		7	
42		62.6	289		А	
40	43.4		310		9	
42	42.7	61.9	326		10	
43	42.3		138		11	
41		60.5	203		12	
41		59.5	201		1.3	
43		59.3	230		14	
46	38.1	58.9	171		15	
44	39.9	58.3	246		16	
44		57.0	236		17	
46	37.5		131		1.8	
45	35.3		89		19	
43		52.6	176		20	
39		51.7			21	
46	32.1	51.5	137		55	
50	29.0	51.0	52	11	23	
44	30.9	50.1	50		24	
41	34.2	49.2	276	209	25	
41	30.3	48.5	50		26	
41		48.2		144	27	
46		46.8			28	
45	26.3	46.5	75		29	
41	28.1	46.3	55		30	DDAFT
46	24.9	46.1	105		31	DRAFT
43	26.9	44.3	70		32	A
39		38.5	74		33	SEP 3 1976
35	20.1	37.7	19		34	
41	21.8	37.6	112		35	
		.0	0		36	

WEIGHTING FACTORS)

SS ARFAS

BLM RANKING BASED ON COLUMN T (EXCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

G-12

RANKING BASED ON FINAL SCORE (T)

•	VALLFY			R	ANKING	SCORE
NO.	NAME.	P	Ġ	R	S	T
	MOLLAND ATTHE	4.7		3 //		70 5
9	MOHAWK/TULE AZD	16	44	34	61.5	79.5
3	GROWLER/CHILDS AZD	15	44	34	57.4	75.4
52	RANEGRAS PLAIN AZB	17	39	40	5A.7	74.5
√8 54	FAILROAD/REVEILLE NVB	11	48	44	49.1	69.7
55	RALSTIN NVP	10	50	48	47.9	69.3
17	HARQUAHALA PLATH AZB	1.3	41	41	49.7	65.1
6 2 53	RAILROAD NVB	11	49	36	48.9	64.9
- 11	SAN CRISTORAL AZD	11	44	34	47.1	64.7
/: 21	PALDMAS/HYDER AZB	11	41	43	46.5	63.9
V = 42	DRY LAKE/MULESHOE NVB	9	46	42	44.5	62.6
13 48	LITTLE SMOKY NVB	9	46	40	43,4	62.4
N= 43	GARDEN/CDAL NVR	8	49	42	42.7	61.9
73 44	HOT CREEK NVB	8	52	43	42.3	61.5
66	TULAROSA BASIN S NMD	8	60	43	42.1	61.3
64. 57	STONE CARIN NVR	7	49	46	40.3	61.1
12 52	PENOYER NVA	8	50	41	42.3	60.5
14.61	WHITE RIVER NVB	10	45	41	43.7	60.
19	MC MULLEN AZB	10	44	41	44.1	59.5
15	BUTLER AZB	9	45	43	41.0	59.3
ñ 18	LA POSA PLAIN AZR	9	38	44	39.5	59.2
. 37	RIG SMOKY NVR	,8	46	44	39.9	58.3
12	SENTINFL PLATH AZD	7	44	41	38.2	58.1
) 7	LECHUGUILLA DESERT AZD	7	47	34	39.8	57.8
16	CACTUS PLAIN AZB	Q	38	46	37.5	56.9
39	CLAYTON-ALKALI SPRING NVB	7	46	45	37.5	56.9
N; 45	INDIAN SPRING NVR	4	48	48	33.4	54.8
≥ 51	PAHRANAGAT NVP	6	49	39	36.3	53.9
35	AMARGOSA DESERT NVB	5	45	46	34.3	53.7
/ 24	CACTUS FLAT NVD	9	40	36	39.0	53.5
41	DELAMAR/PAHROC NVB	5	43	43	33,7	52.6
60	TIKAROU NVR	5	50	37	37.3	51.9
N. 6	LA POSA PLAIN AZD	3	51	40	31.6	51.4
14	YUMA DESERT AZD	3	49	40	30.6	50.4
11249	MONITOR NVB	5	42	44	30.9	50.1
25	EMIGRANT NVD	7	36	33	34.2	49.9
45 2	GILA BEND PLAIN AZD	.3	47	41	30.0	49.9
ルン 1	CASTLE DOME AZD	3	49	40	30.2	49.6
v 29	KAMICH NAD	5	40	32	32.5	49.1
·~ 27	GALD FLAT NVD	4	40	40	50.0	48.9
50 شى	MEWARK NVB	5	41	41	30.3	48.5
40	COYOTE SPRIKANE SPR NVR	5	43	37	34.2	48.0
. 46	JAKES NVB	3	42	46	26.4	46.8
3 A	CAVE NVB	4	36	45	26.3	46.5
1/3 36	ANTELOPE NVR	3	46	41	28.1	46.3
NL 33	TIKABOO NYO	3	43	34	50.1	46.3
A258	STONEWALL FLAT MVB	3	37	46	24.9	46.1
A2 28	INDIAN SPRING NVD	4	38	33	28.3	45.4
4 ≥ 5	KING AZD	3	46	38	26.1	45.3
-10	PALOMAS PLAIN AZD	4	36	39	26.1	45.0
MP 30	PAHUTE MESA NVD	2	41	40	25.1	44.5
MAR ELA	SARCONATIO DI AT MAR	the same of the sa				

FINAL SCORE (T)

	R	ANKING	SCORES	*		
Ü	R	S	T	Ų	٧	W
	- "		70 5	634	274	•
44	34	61.5	79.5	521	271 220	5
44	34	57.4 58.7	75.4 74.5	413 356	EEV	3
39 48	40 44	49.1	69.7	247		4
50	48	47.9	69.3	238		5
41	41	49.7	65.1	352		6
49	36	48.9	64.9	243		7
44	34	47.1	64.7	275	230	8
41	43	46.5	63.9	295		9
46	42	44.2	62.6	289		10
46	40	43.4	62.4	310		11
49	42	42.7	61.9	326		51
52	43	42.3	61.5	138		13
60	43	42.1	61.3	332		14
49	46	40.3	61.1	171		15
50	41	42,3	60.5	157		16
45	41	43.7	60.5	203		17
44	41	44.1	59,5	201		18
45	43	41.0	54.3	230		19
3A	44	39.5	59.2	236		20
46	44	39.9	58.3	246		21
44	41	38,2	58.1	208	4	55
47	34	39.8	57.8	172	140	23
38	46	37.5	56.9	131		24
46	45	37.5	56.9	89	4.4	25
u A	48	33.4	54.8	52	11	26 27
49	39	36.3	53.9	73		28
45	46	34.3	53.7 53.5	137 201	188	29
40	36	39.0	52.6	176	100	30
43 50	43 37	33.7 37.3	51.9	559	144	31
51 51	40	31.6	51.4	35	* ***	35
49	40	30.6	50 4	94		33
űź	44	30.9	50.1	50		34
36	33	34.2	49.9	191	135	35
47	41	30.0	49.9	92		36
49	40	30.2	49.6	126		37
40	32	32.5	49.1	113	0	38
40	40	29.9	48.9	168	132	39
41	41	30.3	48.5	50		40
43	37	34.2	48.0	276	209	41
45	46	26.4	46.8	106		42
36	45	26.3	46.5	75		43
46	41	28,1	46.3	55 30	30	44 45
43	34	29.1	46.3	70	29	46
37	46	24.9	46.1	105 87		47
38	33	28.3	45.4 45.3	106		48
46	38	26.1	45.0	30		49

70	54				-3E	72,3	
V.	27	GOLD FLAT NVD	4	40	40	29.9	1
	.: 5 0	MEWARK NVB	5	41	41	30.3	4
	40	COYOTE SPRIKANE SPR NVR	5	43	37	34.2	4
	. 46	JAKES NVB	3	42	46	26.4	4
	3 A	CAVE NVB	4	36	45	26.3	4
11		ANTELOPE NVR	3	46	41	28.1	4
NL	33	TIKABOD NVD	3	43	34	29.1	4
	- 58	STONEWALL FLAT NVB	3	37	46	24.9	4
A.5	28	INDIAN SPRING NVD	4	38	33	28.3	4
	<u>ئ</u> ک ج	KING AZD	3	46	38	26.1	4
	10	PALOMAS PLAIN AZD	4	36	39	26.1	4
* >	30	PAHUTE MESA NVD	2	41	40	25.1	44
	- 56	SAPCOBATUS FLAT NVR	3	42	43	56.9	44
٧٠	34	YUCCA FLAT NVD	4	63	3.3	33.5	44
71 L	31	STONEWALL FLAT NVD	3	37	44	23.2	41
	67	TULAROSA BASIN E NMD	3	44	41	24.7	43
	지도 8 - 교육	MOHAVE WASH AZD	2	44	44	22.2	41
-	62	HUFCH BOLSON NMD	4	42	45	22.1	44
; 7	32	THREE LAKES NVD	3	35	34	25.1	44
	65	TULAROSA BASIN N NMD	5	57	45	24.1	44
	63	JORNADA DEL MUERTO N NMD	3	41	40	25.7	41
	_ 4	INDIAN WASH AZD	5	45	42	21.4	4
1	₩ 59	THREE LAKES NVR	2	48	35	28.3	34
	68	JURNADA DEL MUERTO NMB	3	33	41	54.0	3
د :	95	FRENCHMAN FLAT NVD	3	50	33	28.1	3
	747	LITTLE FISH LAKE NVH	1	44	39	25.3	34
V 2	64	JORNADA DEL MUERTO S NMD	1	40	41	50.5	34
. —	23	BUCKROARD MESA NVD	2	47	31	54.5	34
	20	MOHAVE WASH AZB	9	0	0	• 0	1
,	13	VEKUL AZD	0	0	0	• 0	
							1

*RANKING SCORES

- P = AREAL RANKING SCORE (A+B)
- Q = GENTECHNICAL RANKING SCORF (D+E+F+G+I+J+K+L)
- R = CULTURAL RANKING SCORE (C+H+M+N+O)
- S = COMBINED AREAL AND GEOTECHNICAL SCORE (P+R WITH WEIGHTING FACT
- T = FINAL SCORE (P+0+R WEIGHTING FACTORS)
- U = SUITABLE VALLEY AREA
- V = SUITABLE AREA (U) EXCLUDING WILDLIFE OR WILDERNESS AREAS
- W = NUMERICAL RANK

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W/

3	49	40	30.2	49.6	126		37
5	40	32	32.5	49.1	113	0	38
Ц	40	40	29.9	48.9	168	132	39
5	41	41	30.3	48.5	50		40
5	43	37	34.2	48.0	276	209	41
3	42	46	26.4	46.8	106		42
4	36	45	26.3	46.5	75		43
3	46	41	1,85	46.3	55		44
3 3 3	43	34	29.1	46.3	70	29	45
3	31	46	24.9	46.1	105		46
4	38	33	28.3	45.4	87		47
3	46	38	26.1	45.3	106		48
4	36	39	26.1	45.0	30		49
5	41	40	25.1	44.5	10		50
3	42	43	26.9	44.3	70		51
4	63	3.3	33.5	44.1	9.8		52
3	37	44	23,2	43.8	56		53
3	44	41	24.7	43.8	100		54
5	44	44	55.5	43.2	21		55
4	45	45	1.55	8.54	7		56
3	35	34	25.1	42.7	117		57
3 3 2 3 3 3	57	42	24.1	42.3	58		58
3	41	40	25.7	41.5	124		59
5	45	42	21.4	41.4	42		60
5	48	35	28.3	39.9	19		61
3	33	41	24.0	39.8	112		62
3	50	33	28.1	38.7	68	35	63
t	44	39	25.3	38.5	24		64
1	40	41	20.2	38.3	47		65
2 2	47	31	26.2	36.6	54		66
0	0	0	• 0	. 0	0		67
0	0	0	• 0	.0	0		68

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SEr 3 1976

+J+K+L)

(P+R WITH WEIGHTING FACTORS)

OR WILDERNESS AREAS

RANKING BASED ON COLUMN T (INCLUDING WILDLIFE RANGES)

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - SAMSO

APPENDIX

D-6