

Program Review and Status Report: Mineral Surveys by the  
Geological Survey and the Bureau of Mines of Certain Lands  
Managed by the Bureau of Land Management

by

Susan M. Marcus 1/, Twila Frieders 2/,  
Jean Juilland 3/, and Gary Pavsek 3/

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and nomenclature.

1/ U.S. Geological Survey, Reston, VA

2/ U.S. Bureau of Mines, Washington, D.C.

3/ U.S. Bureau of Land Management, Washington, D.C.

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## PREFACE

This report is composed of two parts. Part I is an annual report on the mineral surveys of Bureau of Land Management wilderness study areas conducted by the Geological Survey and the Bureau of Mines. It presents the status of the mineral survey program as of December 1984. The Appendix to Part I is a list of mineral resource surveys of areas that the Bureau of Land Management was or is considering recommending as suitable for wilderness designation by Congress. The Appendix was revised for this circular and is accurate to September 1, 1985.

Part II is the current Memorandum of Understanding between the Geological Survey, the Bureau of Mines, and the Bureau of Land Management concerning mineral surveys on certain lands managed by the latter agency. Appendix II of Part II lists areas upon which the Geological Survey and the Bureau of Mines are or will be conducting mineral surveys.

For a more complete description of the mineral surveys program, see Mineral Surveys by the Geological Survey and the Bureau of Mines of Bureau of Land Management Wilderness Study Areas (Beikman and others, 1983, USGS Circular 901). Circular 901 presents the history of the program, as well as the survey methods used in these studies.

## MINERAL SURVEYS OF WILDERNESS STUDY AREAS

### THE FIRST ANNUAL REPORT SUMMARY

#### A. Accomplishments:

- ° Approximately 3,700,000 acres in 78 areas have been studied by the Geological Survey and the Bureau of Mines. Completed reports are available to the public.
- ° U.S. Geological Survey Circular 901, written by representatives of the Geological Survey the Bureau of Mines and the Bureau of Land Management helped explain the program to the public.
- ° U.S. Geological Survey Open-File 84-787 set forth uniform guidelines to Bureau of Mines and Geological Survey authors of mineral survey reports.
- ° Approximately 6,000,000 acres are currently under study.
- ° Interagency communication and cooperation is carried out by the interagency Mineral Survey Task Force and by field personnel. This has helped develop and maintain close contacts which allowed the program to proceed expeditiously.

#### B. Expectations:

- ° A revised Memorandum of Understanding between the Bureau of Land Management, the Bureau of Mines, and the Geological Survey will be signed during Fiscal Year 1985. [This was accomplished prior to publication of this report].
- ° Approximately 3,000,000 acres will be studied in the future.

## Introduction

The survey of mineral resources on certain Federal lands managed by the Bureau of Land Management was initiated by the enactment of the Federal Land Policy and Management Act of 1976 (FLPMA). Section 603 of FLPMA states that "prior to any recommendations for the designation of an area as wilderness, the Secretary [of the Department of the Interior] shall cause mineral surveys to be conducted by the Geological Survey and the Bureau of Mines to determine the mineral values, if any, that may be present in such areas." Section 603 of FLPMA also requires the Secretary to complete the review of areas being considered for wilderness by October 21, 1991 ("within 15 years after the date of approval of this Act"). The assessment techniques and respective responsibilities of the three agencies were made known to the public through an interagency report which was published in 1983 as U.S. Geological Survey Circular 901.

The Bureau of Land Management studies all the resources of wilderness study areas, including energy and mineral resources. These energy and mineral resource studies are part of the Bureau of Land Management's Geology-Energy-Minerals resource-assessment program. The Bureau of Land Management studies are predominantly literature searches, but additional geochemical or remote sensing data are gathered in selected areas where such information is necessary. Minerals information from the Geology-Energy-Minerals program was used to help define the minerals issues described in the resource management plans and environmental impact statements of the Bureau of Land Management.

It would have been difficult for the Geological Survey and the Bureau of Mines to complete thorough mineral surveys by 1991 of all areas being studied for possible wilderness designation. So, the three agencies agreed that the Geological Survey and the Bureau of Mines would annually receive a list of

areas that the Bureau of Land Management initially considered suitable for wilderness, based on recommendations in draft resource management plans and on other preliminary data. The Geological Survey and the Bureau of Mines would commence mineral surveys on these "preliminarily suitable" areas the year following receipt of the annual list of areas. This allowed time for the Geological Survey and the Bureau of Mines to plan the surveys, assign personnel, and let helicopter contracts. During the pre-field, field, and report writing phases of the Geological Survey/Bureau of Mines mineral surveys, the Bureau of Land Management continued its land-use planning studies to determine which areas would be recommended to the Secretary as preliminarily suitable for inclusion in the National Wilderness Preservation System. The need to expedite and complete mineral surveys to meet the 1991 deadline, prior to the final identification of suitable areas by the Bureau of Land Management makes the mineral survey program extremely dynamic. In most cases, the Geological Survey and the Bureau of Mines study areas that the Bureau of Land Management plans to recommend to the Secretary as suitable for wilderness designation. However, in some cases, the Geological Survey and the Bureau of Mines study areas where boundaries are modified in response to changes in the Bureau of Land Management preliminarily suitable recommendations. Close coordination between the three agencies minimizes these occurrences.

#### Joint Mineral Surveys

The Geological Survey and the Bureau of Mines commenced mineral surveys of Bureau of Land Management instant study areas during Fiscal Year 1978. The results of the first survey were published in 1979 as a Geological Survey open-file report jointly authored by the Geological Survey and the Bureau of

Mines. Mineral surveys of Bureau of Land Management wilderness study areas commenced during Fiscal Year 1979, and the jointly authored results were published in 1980 as a Geological Survey miscellaneous field investigations map (MF). A list of completed surveys forms Appendix 1 of this annual report. By January 1, 1985, joint reports by the Geological Survey and the Bureau of Mines have been completed on 78 areas, encompassing 3,703,206 acres. The completed reports describe the results of surveys of 22 instant study areas, covering 1,324,487 acres, and 56 wilderness study areas, covering 2,378,719 acres. Mineral surveys of all Bureau of Land Management instant study areas have been completed. Studies are currently in progress by the Geological Survey and/or the Bureau of Mines on 6,138,839 acres of Bureau of Land Management wilderness study areas. In addition, approximately 3,000,000 acres remain to be surveyed.

The Geological Survey studies the geology, geochemistry, and geophysics of each area. The Bureau of Mines studies mines, prospects, and mineral occurrences and determines the extent of identified resources. Based on the results of all these investigations, the Geological Survey formulates the area's mineral potential. Definitions of "mineral potential", "identified resources", and the terms used to describe mineral potential are given in U.S. Geological Survey Open-File Report 84-787, which also includes a guide to current writing and publishing procedures. This guide explains the report writing responsibilities, as they pertain to this program, to Bureau of Mines authors and Geological Survey authors.

## Communication

The Geological Survey, the Bureau of Mines, and the Bureau of Land Management have different roles in the wilderness study area program. Several steps have been taken to foster better communication and understanding between the three agencies. These steps include: a memorandum of understanding stating the responsibilities of each agency; briefings in Bureau of Land Management State offices and, publication of a Geological Survey circular to better explain the program to the public.

A series of memoranda of understanding between the three agencies have set forth the individual agency responsibilities as well as interagency coordination functions. The original memorandum of 1978 was revised in 1981 and again in 1983 to reflect changes in the program. The 1983 memorandum is currently being revised to reflect present conditions (see part II of this circular). The memorandum of 1983 assigns dates and responsibilities for specific aspects of the program. It authorizes a task force, with participants from each agency's headquarters office, to monitor the program of mineral surveys of wilderness study areas conducted jointly by the Geological Survey and the Bureau of Mines. Each agency cooperates through the task force, yet retains its independent role.

Geologists of the Geological Survey and the Bureau of Mines have met with Bureau of Land Management managers, geoscientists, and other personnel involved in the wilderness designation process. Meetings attended by all three agencies have been held in the Nevada and California State offices of the Bureau of Land Management, the California Desert district office of the Bureau of Land Management, and the Geological Survey Menlo Park, California, facility. The agenda of the meetings vary, but they usually include a discussion of Bureau of Land Management concerns and area-specific reports of



preliminary Geological Survey/Bureau of Mines findings. Informal meetings and conversations among field personnel of the Geological Survey, the Bureau of Mines, and the Bureau of Land Management are also conducted.

"Mineral Surveys by the Geological Survey and the Bureau of Mines of Bureau of Land Management Wilderness Study Areas" was published as U.S. Geological Survey Circular 901 in 1983. This interagency report describes the background of the program, agency roles, and how those roles are carried out. It is a useful, explanatory document for the public and for participants of the agency program.

We believe the data gathered and analyzed for this program provide information needed to make informed decisions regarding wilderness designation. These studies also provide reliable, current evaluations of our Nation's mineral resources on public lands.

## Mineral Surveys of BLM Wilderness Study Areas

### APPENDIX

List of Mineral Surveys by the Bureau of Land Management,  
the Geological Survey, and the Bureau of Mines

MINERAL SURVEYS OF WILDERNESS STUDY AREAS  
APPENDIX

Explanation of Abbreviations

Status - Current classification by area by the Bureau of Land Management. Not all areas will be studied by the ROM and the USGS (see text for further explanation).

DC - Dropped; contiguous with other wilderness study areas; non-wilderness study area pending decision of Sierra Club vs. Watt

DS - Dropped due to size, non-wilderness study area pending decision of Sierra Club vs. Watt; may be studied under authority of FLPMA Section 202

DSE - Dropped due to split estate; non-wilderness study area pending decision of Sierra Club vs. Watt

ISA - Instant study area

IU - Inventory unit

REL - Released from wilderness consideration by Congressional action; reverted to regular public domain management

W - Congressionally designated wilderness

WSA - Wilderness study area

GEM - Geology-Energy-Minerals studies, by the Bureau of Land Management

P1 - Phase 1, study based on literature review

P2 - Phase 2, study with additional data from field studies

P12 - Phase 1 and Phase 2, studies completed on area

P22 - Two Phase 2 studies, for example, geochemistry and remote sensing

MLA - Mineral Land Assessment, Bureau of Mines report.

Joint Rep. - Report completed jointly by the Bureau of Mines and the Geological Survey, published by the Geological Survey

IP - Mineral surveys in progress

MF - Miscellaneous Field Investigation series publication

OF - Open-File series publication

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
AZ-010-005	STARVATION POINT	W		27-84	
AZ-010-006A	FERRY SWALE	W		63-82	MF 1475D
AZ-010-006B	JUDD HOLLOW	W		63-82	MF 1475D
AZ-010-006C	PARIA RIM	W		63-82	MF 1475D
AZ-010-006D	CEDAR MOUNTAIN	W		63-82	MF 1475D
AZ-010-008A/19	PARIA PLATEAU	W		63-82	MF 1475D
AZ-010-008B	OVERLOOK	REL		63-82	MF 1475D
AZ-010-009	EMMETT WASH	REL		30-82	OF 82-927
AZ-010-033A	HACK CANYON	REL		37-84	
AZ-010-052	MOUNT TRUMBULL	W		31-84	
AZ-010-105A	NEVERSHINE MESA	REL	P2	8-84	OF 83-888
AZ-010-105B	SNAP POINT	REL	P2	8-84	OF 83-888
AZ-010-109	PIGEON CANYON	REL	P2	8-84	OF 83-888
AZ-010-111	LAST CHANCE	W		8-84	
AZ-010-128	SAND COVE	W		21-83	OF 83-887
AZ-010-132	PURGATORY	REL		10-84	
AZ-010-134	LIME HILLS	W		21-83	OF 83-887
AZ-010-135	NARROWS	W		21-83	OF 83-887
AZ-020-001A	MOUNT WILSON	WSA	P1		
AZ-020-007	VAN DEEMAN	DS	P1		
AZ-020-008	MOCKINGBIRD	DS	P1		
AZ-020-009	BLACK MOUNTAINS NORTH	DSE	P1		
AZ-020-010	BURNS SPRING	DSE	P1		
AZ-020-012/042	MOUNT TIPTON	DSE	P1		
AZ-020-014	GRAPEVINE WASH	DS	P1		
AZ-020-015	GRAND WASH CLIFFS	DSE	P1		
AZ-020-021	MOUNT DAVIS	DS	P1		
AZ-020-024	MOUNT NUIT	DSE	P1		
AZ-020-028/029	WARM SPRINGS	DSE	P1		
AZ-020-059	ARRASTRA MOUNTAIN	WSA		22-85	IP
AZ-020-060	LOWER BURRO CREEK	WSA			IP
AZ-020-068	PEOPLES CANYON	DS			IP
AZ-020-084A	SOUTH BRADSHAW	DS	P1		
AZ-020-095	HARQUAHALA	WSA			IP
AZ-020-099	BIG HORN MOUNTAINS	WSA		44-85	IP
AZ-020-119	HELLS CANYON	WSA	P1		
AZ-020-125	NEW WATER MOUNTAINS	WSA	P1		
AZ-020-126A	LITTLE HORN MINS WEST	WSA	P1		
AZ-020-127	LITTLE HORN MOUNTAINS	WSA	P1		
AZ-020-128	EAGLETAIL MOUNTAINS	WSA	P1		
AZ-020-129	EAST CLANTON HILLS	WSA	P1		
AZ-020-136	FACE MOUNTAIN	WSA	P1		
AZ-020-138	SIGNAL MOUNTAIN	WSA	P1		
AZ-020-142/144	WOOLSEY PEAK	WSA	P1		
AZ-020-157	NORTH MARICOPA MOUNTAINS	WSA	P1		
AZ-020-160	SIERRA ESTRELLA	DSE	P1		
AZ-020-163	SOUTH MARICOPA MOUNTAINS	WSA	P1		

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
AZ-020-164	BUTTERFIELD STAGE MEMORIAL	WSA	P1		
AZ-020-172	TABLE TOP MOUNTAIN	WSA	P1		
AZ-020-187	WHITE CANYON	WSA	P1		
AZ-020-194	PICACHO MOUNTAINS	WSA	P1		
AZ-020-197	RAGGED TOP	DS	P1		
AZ-020-202	COYOTE MOUNTAINS	WSA	P1		
AZ-020-203B	BABOQUITVARI PEAK SOUTH	DS	P1		
AZ-040-001A	NEEDLES EYE	WSA		9-85	IP
AZ-040-008	BLACK ROCK	WSA		5-85	IP
AZ-040-014	FISHHOOKS	WSA		12-85	IP
AZ-040-022/023/024A	GILA BOX	WSA			MF 1315B
AZ-040-022/024B	TURTLE MOUNTAIN	WSA			MF 1315B
AZ-040-065	HAPPY CAMP CANYON	WSA			IP
AZ-050-005B	NEEDLES EASTERN ADDITION	DS			
AZ-050-007B	CROSSMAN PEAK	WSA		82-83	MF 1602A
AZ-050-012	GIBRALTER MOUNTAIN	WSA	P1		
AZ-050-013	PLANET PEAK	DSE	P1		
AZ-050-014A/B	CACTUS PLAIN	WSA	P1		
AZ-050-015A	SWANSEA	WSA	P1		
AZ-050-017	EAST CACTUS PLAIN	WSA	P1		
AZ-050-023A	SOUTH TRIGO MOUNTAINS	DS	P1		
AZ-050-023B	TRIGO MOUNTAINS	WSA	P1		
AZ-050-031	KOFA UNIT 3 SOUTH	DS	P1		
AZ-050-033	KOFA UNIT 4 NORTH	DS	P1		
AZ-050-034	KOFA UNIT 4 SOUTH	DS	P1		
AZ-050-053A	MUGGINS MOUNTAIN	WSA	P2		
AZ-ISA	ARAVAIPA CANYON P.A.	W			OF79-291
AZ-ISA	PAIUTE P.A.	W			OF80-984
AZ-ISA	PARIA CANYON P.A.	W			MF1475D
AZ-ISA	TURBINELLA-GAMBEL OAK N.A.	W			MF1146B
AZ-ISA	VERMILLION CLIFFS N.A.	W			MF1475D
CA-010-026	OWENS PEAK	WSA			IP
CA-010-027	SACATAR MEADOW SOUTH	WSA	P1		IP
CA-010-029	ROCKHOUSE	WSA	P1		
CA-010-055	CERRO GORDO	WSA	P1		
CA-010-056	SOUTHERN INYO	WSA	P1		IP
CA-010-057	INDEPENDENCE CREEK	WSA	P1		
CA-010-058	WONOGA PEAK	DS	P1		
CA-010-059	TINEMAHA	DS	P1		
CA-010-060	PAIUTE	DS	P1		
CA-010-063	COYOTE SOUTHEAST	DS	P1		
CA-010-064	SYMME'S CREEK	WSA	P1		
CA-010-065	BLACK CANYON	DS	P1		
CA-010-075	WHITE MOUNTAIN	DS	P1		
CA-010-077	BENTON RANGE	DS	P1		
CA-010-082	CASA DIABLO	WSA	P1		
CA-010-088	EXCELSIOR (S 1/2)	DS	P1		

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
CA-010-090	GRANITE MOUNTAINS	WSA	Pl		
CA-010-092	WALFORD SPRINGS	WSA	Pl		
CA-010-094	MORMON MEADOW	WSA	Pl		
CA-010-095	MT BIEDEMAN	WSA	Pl		
CA-010-099	BODIE MOUNTAINS	WSA	Pl		
CA-010-100	BODIE	WSA	Pl		
CA-010-102	MASONIC MOUNTAINS	WSA	Pl		
CA-010-103	SWEETWATER	DS	Pl		
CA-010-105/NV-030-531	SLINKARD	WSA	Pl		
CA-020-1012	SHELDON CONTIGUOUS	WSA			IP
CA-020-1013	MASSACRE RIM	WSA			IP
CA-020-103	PIT RIVER CANYON	WSA		33-84	IP
CA-020-311	TUNNISON MOUNTAIN	WSA			IP
CA-020-612	SKEDADDLE MOUNTAIN	WSA			IP
CA-020-615	DRY VALLEY RIM	WSA			IP
CA-020-619A	TWIN PEAKS	WSA			IP
CA-020-913	LITTLE HIGH ROCK CANYON	WSA			IP
CA-020-913B	HIGH ROCK CANYON	WSA			IP
CA-020-914	E. FORK HIGH ROCK CANYON	WSA			IP
CA-030-201	TIMBERED CRATER	WSA			MF 1214B
CA-030-402	TUNNEL RIDGE	DS		52-83	IP
CA-040-303	PINNACLES WILDERNESS CONFIG	WSA		29-85	IP
CA-050-112	KING RANGE	WSA			MF 1196C
CA-050-132	RED MOUNTAIN	WSA	Pl		
CA-060-002	AQUA TIBIA	DS		11-84	
CA-060-024B	SAWTOOTH MOUNTAINS	WSA		30-84	IP
CA-060-025A	CARRIZO GORGE	WSA			IP
CA-ISA	BAKER CYPRESS/LAVA ROCK N.A	ISA			MF1214B
CA-ISA	CHEMISE MOUNTAIN P.A.	ISA			MF1196C
CDCA-102	NW FISHLAKE VALLEY	WSA	Pl		
CDCA-112	LAST CHANCE MOUNTAIN	WSA	Pl		
CDCA-117	SALINE VALLEY	WSA	Pl	16-84	OF 84-560
CDCA-117A	LOWER SALINE VALLEY	WSA	Pl	1-84	OF 84-560
CDCA-119	LITTLE SAND SPRING	WSA	Pl	103-83	OF 84-557
CDCA-122	INYO MOUNTAINS	WSA	Pl	18-85	IP
CDCA-123	HUNTER MOUNTAIN	WSA	Pl	105-83	OF 84-638
CDCA-127	PANAMINT DUNES	WSA	Pl	15-85	OF 84-678
CDCA-134	WILDROSE CANYON	WSA	Pl	37-84	OF 84-665
CDCA-142	SLATE RANGE	WSA	Pl	104-83	OF 84-754
CDCA-143	FUNERAL MOUNTAINS	WSA	Pl	36-84	IP
CDCA-145	RESTING SPRING RANGE	WSA	Pl	6-85	
CDCA-147	GREENWATER RANGE	WSA	Pl		
CDCA-148	GREENWATER VALLEY	WSA	Pl	13-85	IP
CDCA-150	NOPAH RANGE	WSA	Pl	10-85	IP
CDCA-150A	SOUTH NOPAH RANGE	WSA	Pl		
CDCA-156	OWLSHEAD MOUNTAINS	WSA	Pl	14-85	OF 84-755
CDCA-164	EL PASO MOUNTAINS	WSA		40-84	

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
CDCA-206	NEWBERRY MOUNTAINS	WSA	P1	27-85	IP
CDCA-207	RODMAN MOUNTAINS	WSA	P1	36-85	IP
CDCA-217	BIGHORN MOUNTAINS	WSA		107-82	MF 1493A
CDCA-218	MORONGO	WSA	PI	29-84	IP
CDCA-218A	WHITewater	WSA	P1		MF 1478A
CDCA-221	AVAWATZ MOUNTAINS	WSA	P1		
CDCA-222	KINGSTON RANGE	WSA	P1		IP
CDCA-227	CLARK MOUNTAIN	WSA	P1		
CDCA-228	HOLLOW HILLS	WSA	P1		
CDCA-238B	CIMA DOME	WSA	P1		
CDCA-239	CINDER CONES	WSA	P1		IP
CDCA-243	OLD DAD MOUNTAIN	WSA	P1		
CDCA-250	KELSO DUNES	WSA		108-83	OF 84-647
CDCA-251	CADY MOUNTAINS	WSA	P1		
CDCA-256	BRISTOL/GRANITE MOUNTAINS	WSA	P1	28-84	IP
CDCA-262	SOUTH PROVIDENCE MOUNTAINS	WSA		32-84	OF 84-679
CDCA-263	PROVIDENCE MOUNTAINS	WSA			IP
CDCA-266	CASTLE PEAKS	WSA	P1	9-84	IP
CDCA-267	FORT PIUTE	WSA	P1	108-83	IP
CDCA-305	SHEEPHOLE/CADIZ	WSA		110-82	OF 82-957
CDCA-307	TURTLE MOUNTAINS	WSA		6-84	IP
CDCA-310	CHEMEHUEVI MOUNTAINS	WSA		42-83	MF 1584A
CDCA-312	WHIPPLE MOUNTAINS	WSA	P1	82&3985	OF 82-956
CDCA-321	BIG MARIA MOUNTAINS	WSA	P1	142-82	IP
CDCA-322	RICE VALLEY	WSA		59-82	
CDCA-325	PALEN/McCOY	WSA	P1	17-84	IP
CDCA-328	COXCOMB MOUNTAINS	WSA		94-82	MF 1603A
CDCA-334	EAGLE MOUNTAINS	WSA		101-83	OF 84-631
CDCA-341	SANTA ROSA MOUNTAINS	DSE	P1	100-83	
CDCA-343	MECCA HILLS	WSA		35-84	IP
CDCA-344	OROCOPIA MOUNTAINS	DSE		7-84	
CDCA-348	CHUCKWALLA MOUNTAINS	WSA	P1	4-85	OF 84-674
CDCA-350	LITTLE CHUCKWALLA MT.	WSA	P1		
CDCA-355	INDIAN PASS	WSA		39-84	IP
CDCA-355A	PICACHO PEAK	WSA	P1	38-84	IP
CDCA-360	NORTH ALGODONES DUNES	WSA		43-83	OF 84-630
CDCA-368	JACUMBA (IN-KO-PAH) MTNS.	WSA			IP
CDCA-372	FISH CREEK MOUNTAINS	WSA			IP
CO-010-001	BULL CANYON	WSA	P1	3-85	IP
CO-010-208	WEST COLD SPRINGS	WSA	P12		
CO-010-214	DIAMOND BREAKS	WSA	P12		
CO-010-224	DINOSAUR NM	DS	P2		
CO-010-224A	DINOSAUR ADJACENT-N	DS	P1		
CO-010-226	DINOSAUR ADJACENT-N	DS	P1		
CO-010-228	DINOSAUR ADJACENT-N	WSA	P1		
CO-010-229D	DINOSAUR ADJACENT-N	WSA	P1		
CO-010-230	CROSS MOUNTAIN	WSA	P1		

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
CO-030-208	RED CLOUD PEAK	WSA			IP
CO-030-217	AMERICAN FLATS	DS			IP
CO-030-229A	WEST NEEDLES CR. CONT.	WSA		35-83	MF 1632A
CO-030-241	HANDIES PEAK	WSA			IP
CO-030-251	MENEFEE MT	WSA	P1		
CO-030-252	WEBER MOUNTAIN	WSA	P1		
CO-030-265	CROSS CANYON	WSA	P12		
CO-030-265A	SQUAW-PAPOOSE CANYONS	WSA	P12		
CO-030-265D	CAHONE CANYON	WSA	P12		
CO-030-286	McKENNA PEAK	WSA	P1		
CO-030-290	DELORES RIVER CANYON	WSA	P12		
CO-030-300	TABEGUACHE CREEK	WSA	P1		
CO-030-353	CAMEL BACK	WSA	P1		
CO-030-370B	ADOBE BADLANDS	WSA	P1		
CO-030-388	GUNNISON GORGE	WSA	P1		
CO-050-002	BROWNS CANYON	WSA	P2		IP
CO-050-016	BEAVER CREEK	WSA		32-85	IP
CO-050-131	BLACK CANYON	WSA		24-84	IP
CO-050-132B	SOUTH PINEY CREEK	DS		24-84	IP
CO-050-135	SAND CASTLE	DS		24-84	
CO-050-137	PAPA KEAL	WSA		24-84	IP
CO-050-139B	ZAPATA CREEK	DS		24-84	
CO-050-141	SAN LUIS HILLS	WSA			IP
CO-070-009	DEMAREE CANYON	WSA	P12		
CO-070-066	LTL. BOOKCLIFFS WILDHORSE	WSA	P12		
CO-070-113	BLACK RIDGE CANYONS	WSA	P12		
CO-070-113A	BLACK RIDGE CANYONS WEST	WSA	P12		
CO-070-132	THE PALISADE	WSA	P12		
CO-070-132A/UT060122	GRANITE CREEK	IU	P1		
CO-070-150/030-363	DOMINGUEZ CANYONS	WSA	P12		
CO-070-176/030-310A	SEWEMUP MESA	WSA	P12		
CO-070-392	EAGLE MOUNTAIN	DS	P1	7-85	IP
CO-070-425	HACK LAKE	WSA		34-84	IP
CO-070-430	BULL GULCH	WSA		24-85	IP
CO-ISA	POWDERHORN P.A.	WSA			MF 1483A
ID-110-91A	BOX CREEK	DS	P1		
ID-111-17	BRUNEAU RIVER	WSA			IP
ID-111-18	POLE CREEK (SHEEP CREEK W.)	WSA	P1		
ID-111-36A	SHEEP CREEK WEST	WSA			IP
ID-111-36B	SHEEP CREEK EAST	WSA	P1		
ID-111-44	UPPER DEEP CREEK	WSA	P1		
ID-111-6	LITTLE JACK'S CREEK	WSA			IP
ID-111-7B	DUNCAN CREEK	WSA			IP
ID-111-7C	BIG JACK'S CREEK	WSA			IP
ID-16-40	NORTH FORK OWYHEE RIVER	WSA			IP
ID-16-48B	OWYHEE RIVER CANYON	WSA	P1		IP
ID-16-48C	LITTLE OWYHEE RIVER	WSA	P1		IP



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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
ID-16-49A	DEEP CREEK-OWYHEE RIVER	WSA	P1		IP
ID-16-49D	YATAHONEY CREEK	WSA	P1		IP
ID-16-49E	BATTLE CREEK	WSA	P1	48-85	IP
ID-16-52	JUNIPER CRK (UPPER OWYHEE)	WSA	P1		IP
ID-16-53	SOUTH FORK OWYHEE RIVER	WSA	P1		IP
ID-17-10	LOWER SALMON FALLS CREEK	DS	P1		
ID-17-11	JARBRIDGE RIVER	WSA	P1		IP
ID-19-2	KING HILL CREEK	WSA	P1		IP
ID-28-1	PETTICOAT PEAK	WSA	P1		
ID-31-14	APPENDICITUS HILL	WSA	P1		
ID-31-17	WHITE KNOB MOUNTAINS	WSA	P1		
ID-32-3	HAWLEY MOUNTAINS	WSA	P1		
ID-32-9	BLACK CANYON	WSA	P1		
ID-33-15	HELL'S HALF ACRE	WSA	P1	28-85	IP
ID-33-4	CEDAR BUTTE	WSA	P1		
ID-34-2	TABLE ROCK ISLANDS	WSA	P12		
ID-34-3	PINE CREEK ISLANDS	WSA	P12		
ID-34-4	CONANT VALLEY ISLANDS	WSA	P12		
ID-35-3	SAND MOUNTAIN	WSA	P1		
ID-35-77	HENRY'S LAKE	DS	P1		
ID-37-77	WORM CREEK	DS	P1		
ID-43-3	EIGHTEEN MILE	WSA	P12		IP-DROP ?
ID-45-1	GOLDBERG	DS	P1		
ID-46-13	BOULDER CREEK	DS		4-84	MF 1466C
ID-46-14	JERRY PEAK	WSA		4-84	MF 1466C
ID-46-14A	JERRY PEAK WEST	WSA		4-84	MF 1466C
ID-47-4	BORAH PEAK	DS	P1		
ID-53-4	LITTLE WOOD RIVER	DS	P1		
ID-53-5	FRIEDMAN CREEK	WSA	P1		
ID-54-10	DEER CREEK	WSA	P1		
ID-54-2	BLACK BUTTE	DS	P1		
ID-54-5	LITTLE CITY OF ROCKS	WSA	P1		
ID-54-6	BLACK CANYON	WSA	P1		
ID-54-8A	GOODING CITY OF ROCKS	WSA	P1		IP
ID-54-8B	GOODING CITY OF ROCKS	WSA	P12		IP
ID-56-2	LAVA	WSA	P1		
ID-57-02	SHALE BUTTE	WSA	P1		
ID-57-08	SAND BUTTE	WSA	P1		IP
ID-57-10	RAVEN'S EYE	WSA	P1		IP
ID-57-11	LITTLE DEER	WSA	P1		
ID-57-14	BEAR DEN BUTTE	WSA	P1		
ID-59-7	SHOSHONE	WSA	P1		
ID-61-1	SELKIRK CREST	DS	P1		
ID-61-15A	GRANDMOTHER MOUNTAIN	WSA	P1		
ID-61-15B	GRANDMOTHER MOUNTAIN	WSA	P1		
ID-62-1	SNOWHOLE RAPIDS	WSA	P1		
ID-62-10	MARSHALL MOUNTAIN	WSA	P1		

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
ID-ISA	GREAT RIFT	ISA			MF 1462B
MT-024-657B	SEVEN BLACKFOOT	WSA			
MT-024-684	TERRY BADLANDS	WSA			IP
MT-027-701	ZOOK CREEK	WSA	P1		
MT-027-702	BUFFALO CREEK	WSA	P1		
MT-027-736	TONGUE RIVER BREAKS	DS	P1		
MT-060-256	COW CREEK	WSA			IP
MT-064-356	BITTER CREEK	WSA	P1		
MT-065-266	ANTELOPE CREEK	WSA			IP
MT-065-278	BURNT LODGE	WSA			IP
MT-067-205	BURNT TIMBER CANYON	DS	P1		IP
MT-067-206	PRYOR MOUNTAIN	WSA	P1		IP
MT-067-207	BIG HORN TACKON	DS	P1		IP
MT-067-212	TWIN COULEE	WSA	P1		
MT-074-150	WALES CREEK	WSA	P12		
MT-074-151A	HOODOO MOUNTAIN	WSA	P1		
MT-074-151B	GALLAGHER CREEK	DS	P1		
MT-074-155	QUIGG WEST	DS	P1		
MT-075-102	BLIND HORSE CREEK	DS	P1	12-84	OF 84-566
MT-075-105	CHUTE MOUNTAIN	DS	P1	12-84	OF 84-566
MT-075-106	DEEP CREEK/BATTLE CREEK	DS	P1	12-84	OF 84-566
MT-075-107	NORTH FORK SUN RIVER	DS	P1	12-84	OF 84-566
MT-075-110	BEAVER MEADOWS	DS	P1	12-84	OF 84-566
MT-075-114	ELKHORN	DS	P1		
MT-075-115	BLACK SAGE	WSA	P1		
MT-075-133	YELLOWSTONE RIVER ISLAND	WSA	P1		
MT-076-001	RUBY MOUNTAINS	WSA			IP
MT-076-002	BLACKTAIL MOUNTAINS	WSA			IP
MT-076-034	FARLIN CREEK	DS			IP
MT-ISA	BEAR TRAP CANYON P.A.	W			OF 80-835
MT-ISA	HUMBUG SPIRES P.A.	ISA			OF 80-836
MT-ISA	CENTENNIAL MOUNTAINS P.A.	ISA			MF 1342B
NM-010-004	DE-NA-ZIN	W		40-83	OF 83-889
NM-010-009	AH-SHE-SLE-PAH	WSA		40-83	OF 83-889
NM-010-020	IGNACIO CHAVEZ	WSA	P1		IP
NM-010-021	CHAMISA	DSE	P1		
NM-010-022	CABEZON	WSA	P1		IP
NM-010-024	QJITO	WSA	P1		IP
NM-010-055	SABINOSA	WSA			IP
NM-010-057	BISTI	W		40-83	OF 83-889
NM-010-059	NAVAJO PEAK	WSA			IP
NM-010-063	EMPERDRADO	WSA	P1		
NM-010-063A	LA LENA	WSA	P1		
NM-010-092	MANZANO	DS	P1		
NM-020-016	SIERRA LADRONES	WSA			IP
NM-020-018	MESITA BLANCA	WSA	P1		
NM-020-019	EAGLE PEAK	WSA			IP

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NM-020-035	VERANITO	WSA	P1		
NM-020-038	SIERRA DE LAS CANAS	WSA	P1		IP
NM-020-040	STALLION	WSA	P1		
NM-020-043	HORSE MOUNTAIN	WSA	P1		IP
NM-020-044	CONTINENTAL DIVIDE	WSA	P1		IP
NM-020-047A	DEVILS BACKBONE	WSA	P1		
NM-020-047B	DEVILS REACH	DS	P1		
NM-020-053	ANTELOPE	WSA			IP
NM-020-055	JORNADA DE MUERTO	WSA	P1		IP
NM-030-023	GILA LOWER BOX	WSA			IP
NM-030-035	BIG HATCHET MOUNTAINS	WSA			IP
NM-030-052	WEST POTRILLO/MT RILEY	WSA			IP
NM-030-053	ADEN LAVA FLOW	WSA			IP
NM-030-074	ORGAN MOUNTAINS	WSA			IP
NM-030-112	BROKEOFF MOUNTAINS	WSA	P1		
NM-060-109	LITTLE BLACK PEAK	WSA	P1		
NM-060-109/110	LITTLE BLK PK/CARRIZOZO LAV	WSA			IP
NM-060-110	CARRIZOZO LAVA FLOW	WSA	P1		
NM-ISA	EL MALPAIS N.A.	ISA			OF 81-557
NV-010-027	BLUEBELL	WSA	P1		IP
NV-010-033	GOSHUTE PEAK	WSA	P1		IP
NV-010-035	SOUTH PEQUOP	WSA	P1	35-85	IP
NV-010-088	CEDAR RIDGE	WSA	P12		
NV-010-091	RED SPRING	WSA	P12		
NV-010-103A	DEVIL'S CORRAL	WSA	P1		
NV-010-103A	SOUTH FORK OWYHEE RIVER-B	WSA			IP
NV-010-106	OWYHEE CANYON	WSA	P1		IP
NV-010-132	LITTLE HUMBOLDT ROVER	WSA	P12		IP
NV-010-151	ROUGH HILLS	WSA	P12		IP
NV-010-184	BADLANDS	WSA	P1	18-84	IP
NV-020-006A	EAST FORK HIGH ROCK CANYON	WSA	P2		
NV-020-007	HIGH ROCK LAKE	WSA	P2	38-85	IP
NV-020-008	LITTLE HIGH ROCK CANYON	WSA	P2		IP
NV-020-012	POODLE MOUNTAIN	WSA	P2		
NV-020-014	FOX MOUNTAIN RANGE	WSA	P2		
NV-020-014A	POLE CREEK	WSA	P2		
NV-020-019	CALICO MOUNTAINS	WSA	P2		
NV-020-200	SELENITE MOUNTAIN	WSA	P2		
NV-020-201	MOUNT LIMBO	WSA	P2		IP
NV-020-406P	CHINA MOUNTAIN	WSA	P2		
NV-020-406Q	TOBIN RANGE	WSA	P2		
NV-020-600	BLUE LAKES	WSA	P2		IP
NV-020-600D	ALDER CREEK	WSA	P2		
NV-020-603	SOUTH JACKSON MOUNTAINS	WSA	P2		IP
NV-020-606	NORTH JACKSON MOUNTAINS	WSA	P2		
NV-020-620	BLACK ROCK DESERT	WSA	P2		IP
NV-020-621	PAHUTE PEAK	WSA	P2		IP

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
NV-020-622	NORTH BLACK ROCK	WSA	P2		
NV-020-827	NORTH FORK LITTLE HUMBOLDT	WSA	P2	47-85	IP
NV-020-859	DISASTER PEAK	WSA	P2		
NV-030-102	CLAN ALPINE MOUNTAINS	WSA	P1		IP
NV-030-104	STILLWATER RANGE	WSA	P1		
NV-030-108	AUGUSTA MOUNTAINS	WSA	P2		
NV-030-110	DESATOYA MOUNTAINS	WSA	P1		IP
NV-030-127	JOB PEAK	WSA	P1		
NV-030-407	GABBS VALLEY RANGE	WSA	P1		IP
NV-030-525A	BURBANK CANYONS	WSA	P1		IP
NV-040-015	GOSHUTE CANYON	WSA	P12		IP
NV-040-086	GRANITE SPRING	DS	P1		
NV-040-154	PARK RANGE	WSA	P12		IP
NV-040-166	RIORDAN'S WELL	WSA	P12		IP
NV-040-168	SOUTH EGAN RANGE	WSA	P12		
NV-040-169	MOUNT GRAFTON	WSA	P1		IP
NV-040-172	FAR SOUTH EGAN	WSA	P1	12-85	IP
NV-040-177	FORTIFICATION RANGE	WSA	P1		
NV-040-197	TABLE MOUNTAIN	WSA	P1		
NV-040-202/UT-040-216	WHITE ROCK RANGE	WSA	P1	31-85	IP
NV-040-206	PARSNIP PEAK	WSA	P1	42-85	IP
NV-040-242	WORTHINGTON MOUNTAINS	WSA	P1		IP
NV-040-246	WEEPAH SPRINGS	WSA	P1	40-85	IP
NV-050-132	SOUTH PAHROCS RANGE	WSA	P12		IP
NV-050-139	CLOVER MTS (GRAPEVINE SPG)	WSA	P12		IP
NV-050-156	MEADOW VALLEY RANGE	WSA	P12		IP
NV-050-161	MORMON MOUNTAINS	WSA	P12		IP
NV-050-166/UT-060-123	TUNNEL SPRING	WSA	P1		
NV-050-177	DELAMAR MOUNTAINS	WSA	P2		IP
NV-050-1R-16A	EVERGREEN	DS	P1		
NV-050-1R-16B	EVERGREEN	DS	P1		
NV-050-1R-16C	EVERGREEN	DS	P1		
NV-050-201	FISH & WILDLIFE #1	DC	P1		
NV-050-215	ARROW CANYON RANGE	WSA	P1		
NV-050-216	FISH & WILDLIFE #2	DC	P1		
NV-050-217	FISH & WILDLIFE #3	DC	P1		
NV-050-229	MUDDY MOUNTAINS	WSA	P1	112-82	MF 1458C
NV-050-231	LIME CANYON	DC	P1		
NV-050-233	MILLION HILLS	DC	P1		
NV-050-235	GARROTT BUTTES	DC	P1		
NV-050-236	JUMBO SPRINGS	DS	P1		
NV-050-238	BONELLI PEAK	DC	P1		
NV-050-338	SILVER PEAK RANGE NORTH	WSA	P12		IP
NV-050-350	PIGEON SPRING	WSA	P1		
NV-050-354	QUEER MOUNTAIN	WSA	P12		
NV-050-355	BONNIE CLAIRE FLAT	WSA	P12		
NV-050-401	MOUNT STIRLING	WSA	P1	25-85	IP

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
NV-050-411	QUAIL SPRINGS	DC	P1		
NV-050-412	LA MADRE MOUNTAINS	WSA	P1	41-85	IP
NV-050-414	PINE CREEK (RED ROCKS ESCRP)	WSA	P1		MF 1522
NV-050-423	EL DORADO	DC	P1		
NV-050-425	NORTH MCCULLOUGH MOUNTAINS	WSA	P1		
NV-050-435	SOUTH MCCULLOUGH MOUNTAINS	WSA	P1		IP
NV-050-438	IRTEBA PEAKS	DC	P1		
NV-050-460	RESTING SPRINGS RANGE	WSA	P1		
NV-050-4R-15	NELLIS	DS	P1		
NV-060-112	SOUTH REVEILLE	WSA		37-85	IP
NV-060-142/162	PALISADE MESA	WSA		26-85	IP
NV-060-158/199	BLUE EAGLE	WSA			IP
NV-060-163	THE WALL	WSA		26-85	IP
NV-060-190	FANDANGO	WSA			IP
NV-060-191	MOREY	WSA			IP
NV-060-231/241	ANTELOPE	WSA	P1		IP
NV-060-428	SIMPSON PARK	WSA	P1		
NV-060-541	ROBERTS	WSA	P1		IP
NV-ISA	PINE CREEK CANYON N.A.	ISA			MF 1522
NV-ISA	VIRGIN MOUNTAIN N.A.	ISA			MF 1204B
OR-002-81	PUEBLO MOUNTAINS	WSA			IP
OR-002-85F	HIGH STEENS	WSA			IP
OR-002-86F	LITTLE BLITZEN GORGE	WSA			IP
OR-003-77A	HONEYCOMBS	WSA			IP
OR-1-101	ABERT RIM	WSA	P1		
OR-1-117	FISH CREEK RIM	WSA	P1		
OR-1-132	GUANO CREEK	WSA	P1		
OR-1-139	SPAULDING RESERVOIR	WSA	P1		
OR-1-146A	HAWK MOUNTAIN	WSA	P12		
OR-1-146B	HAWK MOUNTAIN	DC	P12		
OR-1-2	DEVILS GARDEN LAVA BED	WSA	P2		
OR-1-22	FOUR CRATERS LAVA BED	WSA	P2		
OR-1-24	SAND DUNES	WSA	P2		
OR-1-3	SQUAW RIDGE LAVA BED	WSA	P2		
OR-1-58	DIABLO MOUNTAIN	WSA	P1		
OR-1-78	OREJANA CANYON	WSA	P1		
OR-11-17	SODA MOUNTAIN	WSA	P2		
OR-13-2	CHOPAKA MTN (WA STATE)	WSA	P2		
OR-2-103	ALDRICH MOUNTAIN	WSA	P1		
OR-2-14	MALHEUR RIVER-BLUEBUCKET C	WSA	P1		
OR-2-23L	STONEHOUSE	WSA	P1		
OR-2-23M	LOWER STONEHOUSE	WSA	P1		
OR-2-72C	SHEEPSHEAD MOUNTAINS	WSA	P1		
OR-2-72D	WILDCAT CANYON	WSA	P1		
OR-2-72F	HEATH LAKE	WSA	P12		
OR-2-72I	TABLE MOUNTAIN	WSA	P12		
OR-2-72J	WEST PEAK	WSA	P12		

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
OR-2-73A	EAST ALVORD	WSA	P1		
OR-2-73H	WINTER RANGE	WSA	P12		
OR-2-74	ALVORD DESERT	WSA	P12		
OR-2-77	MAHOGANY RIDGE	WSA	P1		
OR-2-78	RED MOUNTAIN	WSA	P1		
OR-2-78D	DISASTER PEAK	WSA	P22		
OR-2-81	PUEBLO MOUNTAINS	WSA	P22		
OR-2-82	RINCON	WSA	P12		
OR-2-83	ALVORD PEAK	WSA	P12		
OR-2-84	BASQUE HILLS	WSA	P1		
OR-2-85F	HIGH STEENS	WSA	P12		
OR-2-85G	S.FORK DONNER UND BLITZEN R	WSA	P1		
OR-2-85H	HOME CREEK	WSA	P1		
OR-2-86E	BLITZEN RIVER	WSA	P22		
OR-2-86F	LITTLE BLITZEN GORGE	WSA	P22		
OR-2-87	BRIDGE CREEK	WSA	P1		
OR-3-110	LOWER OWYHEE CANYON	WSA	P22		
OR-3-111	SADDLE BUTTE	WSA	P2		
OR-3-114	PALOMINO HILLS	WSA	P1		
OR-3-118	BOWDEN HILLS	WSA	P2		
OR-3-120	CLARKS BUTTE	WSA	P1		
OR-3-128	JORDAN CRATERS	WSA	P1		
OR-3-152	WILLOW CREEK	WSA	P22		
OR-3-153	DISASTER PEAK	WSA	P22		
OR-3-156	FIFTEEN MILE CREEK	WSA	P22		
OR-3-157	OREGON CANYON	WSA	P22		
OR-3-162	TWELVE MILE CANYON	WSA	P22		
OR-3-173	UPPER WEST LITTLE OWYHEE	WSA	P22		
OR-3-18	CASTLE ROCK	WSA	P1		
OR-3-195	OWYHEE CANYON	WSA	P22		IP
OR-3-27	BEAVER DAM CREEK	WSA	P12		
OR-3-31	CAMP CREEK	WSA	P12		
OR-3-32	COTTONWOOD CREEK	WSA	P12		
OR-3-33	GOLD CREEK	WSA	P12		
OR-3-35	SPERRY CREEK	WSA	P12		
OR-3-47	CEDAR MOUNTAIN	WSA	P1		
OR-3-53	DRY CREEK	WSA	P12		
OR-3-56	DRY CREEK BUTTES	WSA	P22		
OR-3-59	OWYHEE BREAKS	WSA	P22		
OR-3-73	BLUE CANYON	WSA	P1		
OR-3-74	UPPER LESLIE GULCH	DS	P22		
OR-3-75	SLOCUM CREEK	WSA	P22		
OR-3-77A	HONEYCOMBS	WSA	P22		IP
OR-3-77B	WILD HORSE BASIN	WSA	P1		
OR-5-1	THIRTYMILE	WSA	P1		
OR-5-21	BADLANDS	WSA	P1		
OR-5-31	NORTH FORK	WSA	P1		

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
OR-5-33	SOUTH FORK	WSA	P12		
OR-5-34	SAND HOLLOW	WSA	P12		
OR-5-35	GERRY MOUNTAIN	WSA	P12		
OR-5-42	HAMPTON BUTTE	WSA	P12		
OR-5-43	COUGAR WELL	WSA	P12		
OR-5-6	LOWER JOHN DAY	WSA	P1		
OR-5-8	NORTH POLE RIDGE	WSA	P1		
OR-5-9	SPRING BASIN	WSA	P2		
OR-6-1	MCGRAW CREEK	DS	P1		
OR-6-10	CACHE CREEK RANCH	DS	P1		
OR-6-2	HOMESTEAD	WSA	P1		
OR-6-3	SHEEP MOUNTAIN	WSA	P1		
UT-020-060/050-020	DEEP CREEK MOUNTAINS	WSA	P2		
UT-020-089	NORTH STANSBURY MOUNTAINS	WSA	P2		
UT-020-094	CEDAR MOUNTAINS	WSA	P2		
UT-020-105	BIG HOLLOW	DS	P2		
UT-040-046	COTTONWOOD CANYON	WSA	P2		
UT-040-057	BEAVER DAM MTS. (STARVATION)	IU	P2		
UT-040-061	STEEP CREEK	WSA	P2		
UT-040-075	HORSE SPRING CANYON	IU	P2		
UT-040-076	CARCASS CANYON	WSA	P2		
UT-040-077	MUD SPRING CANYON	WSA	P2		
UT-040-078	DEATH RIDGE	WSA	P2		
UT-040-079	BURNING HILLS	WSA	P2		
UT-040-080	FIFTY MILE MOUNTAIN	WSA	P2	IP	IP
UT-040-082	SCORPION	WSA	P2		
UT-040-123/NV-050-166	COUGAR CANYON	WSA	P2		
UT-040-132	RED MOUNTAIN	WSA	P2		
UT-040-143	CANAAN MOUNTAIN	WSA	P2	IP	IP
UT-040-145	ORDERVILLE CANYON	DS	P2		
UT-040-146	DEEP CREEK	DS	P2		
UT-040-147	RED BUTTE	DS	P2		
UT-040-148	SPRING CREEK CANYON	DS	P2		
UT-040-149	THE WATCHMAN	DS	P2		
UT-040-150	NORTH FORK VIRGIN RIVER	DS	P2		
UT-040-153	LA VERKIN CREEK CANYON	DS	P2		
UT-040-154	TAYLOR CREEK CANYON	DS	P2		
UT-040-176	GOOSE CREEK CANYON	DS	P2		
UT-040-177	BEARTRAP CANYON	DS	P2		
UT-040-204B	CENTRAL WAH WAH RANGE	IU	P2		
UT-040-216	WHITE ROCK RANGE	DS	P2		
UT-040-217	MOQUITTH MOUNTAIN	WSA	P2		
UT-040-230	PARUNUWEAP CANYON	WSA	P2		
UT-040-247	PARIA-HACKBERRY	WSA	P2	IP	IP
UT-040-248	WAWHEAP	WSA	P2		
UT-040-268	THE BLUES	WSA	P2		
UT-040-275	PARIA BOOT (THE COCKSCOMB)	WSA	P2		

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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
UT-050-020/020-060	DEEP CREEK MOUNTAINS	WSA	P2		
UT-050-035	CONGER MOUNTAINS	WSA	P2		
UT-050-061	SWASEY MOUNTAIN	WSA	P2		
UT-050-070	KING TOP (STHRN CONFUSION RG	WSA	P2		
UT-050-073	WAH WAH MOUNTAINS	WSA	P2		
UT-050-077	HOWELL PEAK	WSA	P2		
UT-050-078	NOTCH PEAK	WSA	P2		
UT-050-127	FISH SPRINGS RANGE	WSA	P2		
UT-050-186	ROCKWELL	WSA	P2		
UT-050-221	FREMONT GORGE	DS	P2		IP
UT-050-236A	DIRTY DEVIL	WSA	P2	25-84	IP
UT-050-236B	FRENCH SPRING-HAPPY CANYON	WSA	P2	25-84	IP
UT-050-237	HORSESHOE CANYON	WSA	P2	25-84	IP
UT-050-238	BLUE HILLS-MT ELLEN	WSA	P2	26-84	IP
UT-050-241	FIDDLER BUTTE	WSA	P2	132-82	IP
UT-050-242	BULL MOUNTAIN	WSA	P2		
UT-050-247	LITTLE ROCKIES	WSA		19-84	IP
UT-050-248	MOUNT PENNELL	WSA	P2		
UT-050-249	MOUNT HILLERS	WSA	P2		
UT-060-007	MUDDY CREEK	WSA	P2		
UT-060-023	SIDS MOUNTAIN	WSA	P2		
UT-060-025	DEVILS CANYON	WSA	P2		
UT-060-028A	CRACK CANYON	WSA	P2		
UT-060-029A	SAN RAFAEL REEF	WSA	P2		
UT-060-045	HORSESHOE CANYON	WSA	P2		
UT-060-054	MEXICAN MOUNTAIN	WSA	P2		
UT-060-067	TURTLE CANYON	WSA	P2		
UT-060-068A	DESOLATION-GRAY CANYON	WSA	P2		
UT-060-068B	FLOY CANYON	WSA	P2		
UT-060-100B	FLUME CANYON (DIAMOND CYN)	WSA	P2		
UT-060-100C	COAL CANYON/SPRUCE CANYON	WSA	P2		
UT-060-116/117	BLACK RIDGE CANYON WEST	WSA	P12		
UT-060-118	WESTWATER CANYON	WSA	P2		
UT-060-131B	LOST SPRING CYN (S. LST SPR)	DS	P2		
UT-060-138	NEGRO BILL CANYON	WSA	P2		
UT-060-139A	MILL CREEK	WSA	P2		
UT-060-140A	BEHIND THE ROCKS	WSA	P2		
UT-060-164	INDIAN CREEK (LOCKHART BASN)	WSA	P2		
UT-060-167	BRIDGER JACK MESA	WSA	P2		
UT-060-169	BUTLER WASH	WSA	P2		
UT-060-188	PINE CANYON	WSA	P2		
UT-060-191	CHEESE BOX CANYON	WSA	P2		
UT-060-196	BULLET CANYON	WSA	P2		
UT-060-197/198	SLICKHORN	WSA	P2		
UT-060-201	ROAD CANYON	WSA	P2		
UT-060-204	FISH CREEK CANYON	WSA	P2		
UT-060-205B	MULE CANYON	WSA	P2		



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WSA NUMBER	WSA NAME	STATUS	GEM	MLA	JOINT REP.
UT-060-224	SHEIKS FLAT	WSA	P2		
UT-060-227	SQUAW & PAPOOSE CANYONS	IU	P12		
UT-060-229	CROSS CANYON	IU	P12		
UT-080-103	COLD SPRINGS (W COLD SPRGS)	WSA	P1		
UT-080-113	DIAMOND BREAKS	WSA	P1		
UT-080-414	DANIEL'S CANYON	DS	P2		
UT-080-419	BULL CANYON	DS	P1		
UT-080-730	WINTER RIDGE	WSA	P2		
UT-ISA	GRAND GULCH P.A.	ISA	P1		OF 81-748
UT-ISA	DARK CANYON P.A.	ISA			OF 81-734
UT-ISA	ESCALANTE CYN2-4/THE GULCH	ISA	P1		OF 81-559
UT-ISA	NORTH ESCALANTE CYN N.A. (V)	ISA	P1		OF 81-559
UT-ISA	ESCALANTE CANYONS N.A. (I)	ISA	P1?		OF 81-559
UT-ISA	PHIPPS DEATH HOLLOW N.A.	ISA	P1		OF 81-558
WY-010-104A	OWL CREEK	DS	P1		
WY-010-221	HONEYCOMBS	WSA	P1		
WY-010-222	CEDAR MOUNTAIN	WSA	P1		
WY-010-239	PAINT ROCK	DS	P1		
WY-010-240	MEDICINE LODGE	WSA	P1		
WY-010-241	ALKALI CREEK	WSA	P1		
WY-010-242	TRAPPER CREEK	WSA	P1		
WY-010-335	McCULLOGH PEAKS	WSA	P1		
WY-030-101	SWEETWATER CANYON	WSA	P1		
WY-030-109	DUBOIS BADLANDS	DS	P1		
WY-030-110	WHISKEY MOUNTAIN	DS	P1		
WY-030-111	COPPER MOUNTAIN	WSA	P1		
WY-030-120	SWEETWATER ROCKS	WSA	P1		
WY-030-122	SWEETWATER ROCKS	WSA	P1		
WY-030-123A	SWEETWATER ROCKS	WSA	P1		
WY-030-123B	SWEETWATER ROCKS	WSA	P1		
WY-030-303	PROSPECT MOUNTAIN	DS	P1		
WY-030-304	BENNETT MOUNTAINS	WSA	P12		
WY-030-305	PEDRO MOUNTAINS	IU	P1		
WY-030-407	FERRIS MOUNTAINS	WSA			IP
WY-040-106	EAST FORK	DS	P1		
WY-040-221	RAYMOND MOUNTAINS	WSA		97-83	
WY-040-307	SAND DUNES	WSA		33-85	IP
WY-040-323	HONEYCOMB BUTTES	WSA			IP
WY-040-335	MILL CREEK	DS	P1		
WY-060-201	GARDNER MOUNTAIN	WSA	P1		
WY-060-202	NORTH FORK POWDER RIVER	WSA	P1		
WY-060-204	FORTIFICATION CREEK	WSA	P1		
WY-ISA	SCAB CREEK P.A.	ISA			OF 80-1058

Memorandum of Understanding  
between  
the United States Geological Survey, the Bureau of Mines  
and the Bureau of Land Management  
for  
Mineral Surveys of Wilderness Study Areas

I. Policy. It is the policy of the Directors of the U.S. Geological Survey (GS), Bureau of Mines (BM), and Bureau of Land Management (BLM) to effect the letter and spirit of section 202 and section 603(a) of the Federal Land Policy and Management Act which requires "that prior to any recommendation for the designation of an area as wilderness the Secretary shall cause mineral surveys to be conducted by the Geological Survey and the Bureau of Mines to determine the mineral values, if any, that may be present in such areas."

Further, it is the policy of the Director, BLM, that preliminary minerals data for wilderness suitability/nonsuitability recommendations will be provided through BLM's GEM assessments. Consultation with GS or BM relating to these assessments, if necessary, will be done through the Task Force at the request of BLM representatives.

II. Purpose. This memorandum of understanding establishes a Mineral Survey Task Force to coordinate, implement, and monitor the BM/GS Section 603 and Section 202 mineral survey program of those areas preliminarily recommended by BLM State Directors as suitable, as reviewed by the appropriate BLM Assistant Directors, for inclusion in the National Wilderness Preservation System.

III. Budget. GS and BM have justified direct appropriations since FY 1984. For budget justification purposes, by March 15 of each year, BLM will provide BM and GS with the total acreage of areas for which mineral surveys are to be started two years later. For example on March 15, 1986, BLM will provide the total acreage for which the mineral surveys will be started by BM and GS in FY 1988.

IV. Operations. The GS, BM, and BLM will follow the guidelines and procedures listed below:

A. The Mineral Survey Task Force will consist of:

GS--Staff Geologist for BLM Wilderness  
Office of Mineral Resources

BM--Program Manager for BLM Wilderness Studies  
Division of Mineral Land Assessment

BLM--Staff Geologist for BLM Wilderness  
Division of Geology and Mineral Resources

BLM--Mineral Survey Coordinator  
Branch of Wilderness Resources

B. The contact at BLM will be the Mineral Survey Coordinator,  
Branch of Wilderness Resources.

C. The GS will provide for the appropriate distribution of the  
GS/BM mineral survey report to each of the agencies and  
organizations listed in Appendix I as soon as it is printed and  
will notify the Task Force members of its transmittal.

D. The following program actions will be implemented:

1. Scheduling

a. The current schedule for exchanging USBM and USGS sections  
and for furnishing BLM with a final published Bulletin  
appears in Appendix II. A preliminary administrative  
report can be furnished to the BLM by request 6 months  
prior to the joint report date. The addition of future  
starts and changes to on-going schedules can be  
accomplished by mutual consent of all three agencies.

b. The Mineral Survey Task Force will meet by March 15 of  
each year to develop the final 603 (202) mineral survey  
schedule for the following fiscal year's work. At this  
meeting, the BLM will provide GS and BM with the following:

- (1) A list with the name, number, and acreage for each of the Wilderness Study Areas (WSA's) for which the GS and BM will start a mineral survey the following fiscal year.
  - (2) A list containing each BLM area office contact and one set of maps, showing boundaries of the preliminarily suitable parts of WSA's, will be provided to the GS and one set to the BM, at a scale of 1:24,000 if available, or otherwise at the most useful scale, at the March 15 meeting or no later than 30 days following the meeting.
  - (3) Subsequent to the March 15 meeting, any boundary change will be made by the BLM Task Force contact in writing to the BM and GS Task Force members. The written notification will include the name and number of the WSA and revised acreage figure and a new map on the same scale as previously supplied outlining the revised WSA boundary.
- c. The GS and BM Task Force members will provide a list of project leaders with their office addresses and phone numbers, for each WSA, to the BLM Task Force members by no later than September 15 of each year. The estimated start-up and completion dates of fieldwork will be made a part of this list for each WSA.

## 2. Program Review and Program Reports

- a. At the March 15 meeting and at three other meetings to be held no later than June 15, September 15, and December 15, the Task Force will exchange and compare individual status reports. The BLM Task Force member, Branch of Wilderness Resources will schedule the meeting and provide an agenda to the other Task Force members. The Task Force under the lead of the GS member will prepare an annual joint status report concerning BLM's wilderness program and the required GS/BM section 603 and section 202 mineral surveys. The annual report will be transmitted to the Directors of GS, BM, and BLM, following the December 15 Task Force meeting.
- b. The joint report will track such items as:
  - Exchange of lists of project leaders responsible for individual WSA's;
  - Progress of mineral surveys; and
  - Progress of GEM assessments.

E. After the March 15 annual meeting and prior to starting fieldwork GS and BM field representatives will contact the respective BLM Resource Area Manager to arrange details concerning logistics, radio communications, exchange of data, reports of wildlife sighted, and other matters of mutual concern. The GS and BM will provide the BLM Resource Area Manager with a list of contractors (excluding helicopter contracts) who will provide field assistance in the 603 (202) surveys along with the dates when those contractors will be in the field. The GS and BM


will specifically ensure the BLM Area Manager that field operations will not violate the Interim Management Policy dated December 12, 1979, as amended.

The GS and BM will provide the BLM Area Manager with written notification describing their work plans for the Section 603 and 202 Mineral Surveys that are to be conducted by their respective agencies. The Area Manager can then notify local residents of their purpose by notices in local newspapers and posting on bulletin boards.

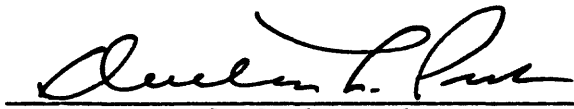
Geological Survey and BM are responsible for obtaining necessary access across private or State lands; however, BLM Area Managers will provide reasonable assistance in any aspect of the field operations.

V. If new data becomes available to the BLM, through submissions from the public or other agency sources, after the GS/BM report on a WSA is completed the BLM State Director may request through the BLM Director (Wilderness Task Force member) a reevaluation of the WSA by the GS and the BM. This reevaluation shall be restricted to a review of the new data in comparison with the data used in the initial report. The reevaluation shall be presented to the BLM State Director in the form of a memorandum signed by representatives of the respective GS and BM field offices. Extensive reevaluations that would delay previously agreed upon deadlines will be subject to inclusion in the cycle of schedules presented by BLM each March 15.

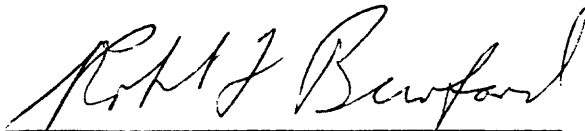
VI. Effective Date. This agreement supersedes the MOU of January 14, 1983, and will become effective on the date of the last signature, and will remain in force unless and until terminated by the Director, GS; or the Director, BM; or the Director, BLM; upon 60 days written notice to all parties. Amendments may be proposed by any party at any time, and will become effective upon joint approval.

  
Director, Bureau of Mines

July 8, 1985  
Date

  
Director, U.S. Geological Survey

July 29, 1985  
Date

  
Director, Bureau of Land Management

Oct 9, 1985  
Date

# APPENDIX I

Joint reports will be distributed by the Geological Survey as follows:

<u>Number of copies each</u>	<u>Recipient</u>
1	Assistant Secretary--Water & Science
1	Assistant Secretary--Land & Minerals Management
1	Assistant Secretary--Fish & Wildlife & Parks (Memorandum with no report)
1	Chairman, Senate Committee on Energy & Natural Resources
1	Minority Leader, Senate Committee on Energy & Natural Resources
1	Minority Leader, House Committee on Interior & Insular Affairs
1	Minority Leader, House Committee on Interior & Insular Affairs
1	(2 State Senators + 1 or more representatives from the District the area covers)
1	State Geologist
50	State Directors (35 copies designated for Deputy State Director for Lands and Renewable Resources, and 15 copies designated for the Deputy State Director for Mineral Resources).
2	Bureau of Land Management Washington Office, Division of Geology and Mineral Resources.
8	Bureau of Land Management Washington Office, Division of Recreation, Cultural and Wilderness Resources, for retention and for distribution to interested parties.
40	Bureau of Mines, Program Manager for BLM Wilderness studies for distributon to Bureau of Mines authors and field offices.
Total	<u>109</u>



# APPENDIX II

<u>AREA NAME</u>	<u>WSA NUMBER</u>	<u>STUDY ACRES</u>	<u>BM/GS EXCHANGE DATE</u>	<u>PUBLISHED REPORT DATE</u>
* JOINT REPORT PUBLISHED DURING FY 1985				
Slate Range	CDCA-142	45,000	Original schedule dates are being revised in conformance with the attached Memorandum of Understanding, Part IV, D. 1.	
Hunter Mountain	CDCA-123	20,600		
Owlshead Mountain	CDCA-156	105,000		
Boulder Creek	ID-46-13	2,573		
Jerry Peak	ID-46-14	46,150		
Jerry Peak West	ID-46-14A	13,530		
Blind Horse Creek	MT-075-102	4,927		
Chute Mountain	MT-075-105	3,205		
Deep Creek/Battle Creek	MT-075-106	3,086		
North Fork Sun River	MT-075-107	196		
Beaver Meadows	MT-075-110	595		
* JOINT REPORT PUBLISHED DURING FY 1986				
Needle's Eye	AZ-040-001A	8,970		
Black Rock	AZ-040-008	6,590		
Fishhooks	AZ-040-014	10,681		
Happy Camp Canyon	AZ-040-065	10,920		
Pit River Canyon	CA-020-103	5,400		
Tunnel Ridge	CA-030-402	4,623		
Inyo Mountain	CDCA-122	62,404		
Funeral Mountains	CDCA-143	13,709		
Nopah Range	CDCA-150	97,151		
Little Lake Canyon	CDCA-157	30,542		
Owens Peak	CDCA-158	26,112		
El Paso Mountain	CDCA-164	13,252		
Golden Valley	CDCA-170	29,887		
Morongo	CDCA-218	6,000		
Turtle Mountains	CDCA-307	123,570		
Palen/McCoy	CDCA-325	81,000		
Mecca Hills	CDCA-343	9,490		
Bull Canyon	CO-010-001/ UT-080-419	11,700		
American Flats	CO-030-217	1,505		
Browns Canyon	CO-050-002	6,614		
Beaver Creek	CO-050-016	20,750		
Black Canyon	CO-050-131	1,100		

<u>AREA NAME</u>	<u>WSA NUMBER</u>	<u>STUDY ACRES</u>	<u>BM/GS EXCHANGE DATE</u>	<u>PUBLISHED REPORT DATE</u>
* JOINT REPORT PUBLISHED DURING FY 1986 (Continued)				
South Piney Creek	CO-050-132B	860		
Papa Keal	CO-050-137	620		
Zapata Creek	CO-050-139B	720		
Eagle Mountain	CO-070-392	330		
Hack Lake	CO-070-425	10		
Bull Gulch	CO-070-430	9,778		
Hell's Half Acre	ID-33-15	66,200		
South Pequop	NV-010-035	34,544		
Badlands	NV-010-184	8,415		
Far South Egans	NV-040-172	42,316		
White Rock Range	NV-040-202/ UT-040-216	23,625		
Worthington Mountains	NV-040-242	26,587		
Dirty Devil	UT-050-236A	61,000		
French Spring/Happy Canyon	UT-050-236B	25,000		
Horseshoe Canyon (South)	UT-050-237	38,800		
Blue Hills/ Mt. Ellen	UT-050-238	54,480		
Fiddler Butte	UT-050-241	27,000		
Little Rockies	UT-050-247	38,700		
Ferris Mountains	WY-030-407	20,495		
Honeycomb Buttes	WY-030-323	36,647		
Sand Dunes	WY-040-307	16,280		

Original schedule dates are being revised in conformance with the attached Memorandum of Understanding, Part IV, D. 1.

\* JOINT REPORT PUBLISHED DURING FY 1987

Arrastra Mountain	AZ-020-059	78,775
Lower Burro Creek	AZ-020-060	21,700
Peoples Canyon	AZ-020-068	10,320
Harquahala Mountains	AZ-020-095	24,735
Big Horn Mountains	AZ-020-099	21,500
Owens Peak	CA-010-026	14,430
Sacatar Meadow South	CA-010-027	11,447
Southern Inyo	CA-010-056	27,420
Pinnacles Wild. Contig.	CA-040-303	2,200
Sawtooth Mountains	CA-060-024B	24,696
Carrizo Gorge/Eastern McCain Valley	CA-060-025A	14,571
Greenwater Valley	CDCA-148	55,044
Newberry Mountains	CDCA-206	27,964
Rodman Mountains	CDCA-207	16,900
Kingston Range	CDCA-222	38,713
Cinder Cones	CDCA-239	44,299
Bristol/Granite Mountain	CDCA-256	45,000
Providence Mountains	CDCA-263	63,297
Castle Peaks	CDCA-266	44,998
Fort Piute	CDCA-267	31,371
Whipple Mountains Add.	CDCA-312	2,500

<u>AREA NAME</u>	<u>WSA NUMBER</u>	<u>STUDY ACRES</u>	<u>BM/GS EXCHANGE DATE</u>	<u>PUBLISHED REPORT DATE</u>
* JOINT REPORT PUBLISHED DURING FY 1987				
Indian Pass	CDCA-355	33,640		Original schedule dates are being revised in conformance with the attached Memorandum of Understanding, Part IV, D. 1.
Picacho Peak	CDCA-355A	5,450		
Jacumba	CDCA-368	28,443		
Fish Creek Mountains	CDCA-372	16,882		
Redcloud Peak	CO-030-208	28,130		
Handies Peak	CO-030-241	7,260		
N. Fork Owyhee River	ID-16-40	39,745		
Owyhee River Canyon	ID-16-48B	33,700		
Little Owyhee River	ID-16-48C	8,460		
Deep Creek-Owyhee River	ID-16-49A	67,400		
Yatahoney Creek	ID-16-49D	9,550		
Battle Creek	ID-16-49E	31,880		
Juniper Creek	ID-16-52	12,350		
S. Fork Owyhee River	ID-16-53	42,430		
Gooding City of Rocks	ID-54-8A	13,063		
Gooding City of Rocks	ID-54-8B	6,287		
Terry Badlands	MT-024-684E&W	29,020		
Seven Blackfoot A	MT-024-657A	1,160		
Seven Blackfoot B	MT-024-657B	4,550		
Antelope Creek A	MT-065-266A	9,600		
Burnt Lodge	MT-065-278	13,730		
Cow Creek	MT-066-256	21,590		
Burnt Timber Canyon	MT-067-205	3,430		
Pryor Mountain	MT-067-206	16,927		
Big Horn Tackon	MT-067-207	2,550		
Ruby Mountains	MT-076-001	15,615		
Blacktail Mountains	MT-076-002	10,610		
Farlin Creek	MT-076-034	610		
Bluebell	NV-010-027	41,324		
Goshute Peak	NV-010-033	61,004		
S. Fork Owyhee River	NV-010-103A	5,180		
Owyhee Canyon	NV-010-106	13,525		
High Rock Lake	NV-020-007	14,000		
Mount Limbo	NV-020-201	12,900		
Blue Lakes	NV-020-600	16,400		
S. Jackson Mountains	NV-020-603	10,300		
Black Rock Desert	NV-020-620	174,300		
Pahute Peak	NV-020-621	25,200		
N. Fork Little Humboldt	NV-020-827	8,900		
Mount Grafton	NV-040-169	30,115		
Parsnip Peak	NV-040-206	53,650		
Weepah Spring	NV-040-246	50,499		
Mount Stirling	NV-050-401	40,275		
LaMadre Mountains	NV-050-412	34,010		
South Reveille	NV-060-112	33,000		

<u>AREA NAME</u>	<u>WSA NUMBER</u>	<u>STUDY ACRES</u>	<u>BM/GS EXCHANGE DATE</u>	<u>PUBLISHED REPORT DATE</u>
* JOINT REPORT PUBLISHED DURING FY 1987 (Continued)				
Palisade Mesa	NV-060-142/162	66,110		Original schedule dates are being revised in conformance with the attached Memorandum of Understanding, Part IV, D. 1.
Blue Eagle	NV-060-158/199	51,350		
The Wall	NV-060-163	30,320		
Fandango	NV-060-190	31,740		
Morey	NV-060-191	14,560		
Antelope	NV-060-231/241	83,100		
Roberts	NV-060-541	15,090		
Pueblo Mountains	OR-002-081	37,595		
High Steens	OR-002-085F	33,420		
Little Blitzen Gorge	OR-002-086F	6,270		
Honeycombs	OR-003-077A	36,000		
Owyhee Canyon	OR-003-195	143,960		

\* JOINT REPORT PUBLISHED DURING FY 1988

Tunnison Mountain	CA-020-311	8,445
Skedaddle	CA-020-612	39,420
Dry Valley Rim	CA-020-615	54,480
Twin Peaks	CA-020-619A	50,570
Little High Rock Canyon	CA-020-913/ NV-020-008	17,320
High Rock Canyon	CA-020-913B	11,980
E. Fork High Rock Canyon	CA-020-914/ NV-020-006A	27,930
Sheldon Contiguous	CA-020-1012	780
Massacre Rim	CA-020-1013	23,260
Jarbridge River	ID-17-11	47,000
King Hill Creek	ID-19-2	27,680
Eighteen Mile	ID-43-3	18,700
Burnt Creek	ID-45-12	8,300
Sand Butte	ID-57-8	20,792
Raven's Eye	ID-57-10	67,110
Little Jacks Creek	ID-111-6	34,000
Duncan Creek	ID-111-7B	9,400
Big Jacks Creek	ID-111-7C	49,875
Bruneau River	ID-111-17	90,000
Sheep Creek West	ID-111-36A	11,680
Upper Deep Creek	ID-111-44B	5,700
Little Humboldt River	NV-010-132	40,000
Rough Hills	NV-010-151	6,685
Clan Alpine Mountains	NV-030-102	68,458

<u>AREA NAME</u>	<u>WSA NUMBER</u>	<u>STUDY ACRES</u>	<u>BM/GS EXCHANGE DATE</u>	<u>PUBLISHED REPORT DATE</u>
* JOINT REPORT PUBLISHED DURING FY 1988				
Desatoya Mountains	NV-030-110	43,096		Original schedule dates are being revised in conformance with the attached Memorandum of Understanding, Part IV, D. 1.
Goshute Canyon	NV-040-015	22,225		
Park Range	NV-040-154	46,831		
Riordan's Well	NV-040-166	37,542		
South Pahroc Range	NV-050-132	28,395		
Clover Mountains	NV-050-139	84,165		
Meadow Valley Range	NV-050-156	97,180		
Mormon Mountains	NV-050-161	23,690		
Silver Peak Range North	NV-050-338	17,850		
S. McCullough Mountains	NV-050-435	19,558		
Ignacio Chavez	NM-010-020	8,780		
Cabezon	NM-010-022	6,475		
Ojito	NM-010-024	11,297		
Sabinosa	NM-010-055	15,760		
Rio Chama	NM-010-059	4,032		
Sierra Ladrones	NM-020-016	31,244		
Sierra de las Canas	NM-020-038	12,838		
Horse Mountain	NM-020-043	4,432		
Continental Divide	NM-020-044	35,635		
Antelope	NM-020-053	9,892		
Jornado Del Muerto	NM-020-055	31,147		
Gila Lower Box	NM-030-023	5,835		
Big Hatchet Mountains	NM-030-035A,B	41,293		
W. Potrillo/Mt. Riley	NM-030-052	147,100		
Aden Lava Flow	NM-030-053	23,857		
Organ Mountains	NM-030-074	7,144		
Little Black Peak/ Carrizozo Lava Flow	NM-060-109/110	24,249		
Canaan Mountain	UT-040-143	38,000		