

# New Mexico Geological Society

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## ***Front Matter***

*(Usually includes Dedication, President's Message, & Conference Organizer's Message.)*

*in:*

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*This is a section from the 1975 NMGS Fall Field Conference Guidebook.*

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## **Annual NMGS Fall Field Conference Guidebooks**

Every fall since 1950, the New Mexico Geological Society (NMGS) has held an annual [Fall Field Conference](#) that explores some region of New Mexico (or surrounding states). Always well attended, these conferences provide a guidebook to participants. Besides detailed road logs, the guidebooks contain many well written, edited, and peer-reviewed geoscience papers. These books have set the national standard for geologic guidebooks and are an essential geologic reference for anyone working in or around New Mexico.

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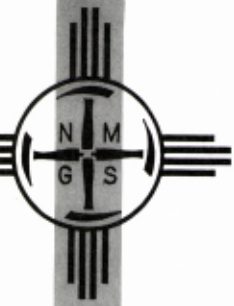
NMGS has decided to make peer-reviewed papers from our Fall Field Conference guidebooks available for free download. This is in keeping with our mission of promoting interest, research, and cooperation regarding geology in New Mexico. However, guidebook sales represent a significant proportion of our operating budget. Therefore, only *research papers* are available for download. *Road logs*, *mini-papers*, and other selected content are available only in print for recent guidebooks.

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# GUIDEBOOK of the LAS CRUCES COUNTRY

Editors

WILLIAM R. SEAGER

RUSSELL E. CLEMONS

JONATHAN F. CALLENDER

NEW MEXICO GEOLOGICAL SOCIETY

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Twenty-Sixth Field Conference—November 13, 14, and 15, 1975

# CONTENTS

President's Message .....	vii
Committees .....	viii
Publications of the New Mexico Geological Society.....	x
Field Conference Schedule .....	xi
Advertisers' Index .....	xii
Index Map of Dona Ana County and Field Trip Routes .....	xiv
Apollo 6 photo, Las Cruces Country .....	xv

## ROAD LOGS

First Day: Las Cruces to Southern San Andres Mountains and Return .....	<i>Frank E. Kottlowski and John W. Hawley</i>	1
Second Day: Las Cruces to the Sierra de las Uvas and Aden Volcanic area and Return .....	<i>Russell E. Clemons, John W. Hawley, Jerry M. Hoffer and William R. Seager</i>	17
Third Day: Las Cruces to North Mesilla Valley, Cedar Hills, San Diego Mountain, and Rincon Area .....	<i>John W. Hawley, William R. Seager, and Russell E. Clemons</i>	35
<b>Exit A (North):</b> Rincon Area to Derry Hills via Interstate 25 North .....	<i>John W. Hawley and William E. King</i>	54
Exit B (West): 'Hatch and Deming via New Mexico 26 .....	<i>John W. Hawley, William R. Seager, and Leroy L. Corbitt</i>	56
Exit C (South): Upham Interchange to Anthony, New Mexico-Texas via Interstates 25 South and 10 East .....	<i>John W. Hawley</i>	61
Exit D (East): Mesilla Valley to Tularosa Basin via U.S. 70 East .....	<i>John W. Hawley and Russell E. Clemons</i>	65

## A R T I C L E S

### History and Botany

Dona Ana County, New Mexico: Historic Themes .....	<i>Paige W. Christiansen</i>	71
Scenes from the Past .....	<i>William L. Hiss</i>	75
Vegetation of Southern New Mexico .....	<i>William A. Dick-Peddie</i>	81
Tertiary Floras from the Rio Grande Rift .....	<i>Daniel I. Axelrod</i>	85

### Stratigraphy, Paleontology, and Petrology

Precambrian Rocks of the Sierra Oscura and Northern San Andres Mountains, South-Central New Mexico .....	<i>A. J. Budding and Kent C. Condie</i>	89
Stratigraphy of the San Andres Mountains in South-Central New Mexico .....	<i>Frank E. Kottlowski</i>	95
The Lead Camp Limestone and Its Correlatives in South-Central New Mexico .....	<i>George O. Bachman and Donald A. Myers</i>	105

Lower Permian (Wolfcampian) Sedimentation in the Orogrande Basin, New Mexico .....	<i>Clifton F. Jordan</i>	109
Wolfcampian Upper Hueco Formation of the Robledo Mountains, Dona Ana County, New Mexico .....	David V. LeMone, R. D. Simpson, and Karl W. Klement	119
Petrology of the Bell Top Formation .....	<i>Russell E. Clemons</i>	123
A Note on the Volcanic Features of the Aden Crater Area, Southcentral New Mexico .....	Jerry M. Hoffer	131
Malpais Maar Volcano .....	<i>R. O. Page</i>	135
Quaternary History of Dona Ana County Region, South-Central New Mexico .....	<i>John W. Hawley</i>	139

### **Economic and Environmental Geology**

Geology and Base Metal Mineralization of the Southern Jarilla Mountains, Otero County, New Mexico .....	<i>R.E. Beane, L. E. Iramillo, and M. S. Bloom</i>	151
Geology of the Central Organ Mountains, Dona Ana County, New Mexico .....	Thomas J. Glover	157
The Lost Padre Mine and the Organ Mining District .....	<i>T.E. Kelly</i>	163
Fluorspar Deposits and the Rio Grande Rift System .....	<i>W. N. McAnulty</i>	167
A Model for Subduction Origin and Distribution of Fluorite Deposits in the Western United States .....	<i>Albert L. Lamarre</i>	169
Oil and Gas Exploration Wells in Dona Ana County, New Mexico .....	Sam Thompson and Robert A. Bieberman	171
Detection of Geothermal Components in Groundwaters of Dona Ana County, Southern Rio Grande Rift, New Mexico .....	Chandler Swanberg	175
The Broad Canyon Dam .....	<i>William J. Fox</i>	181
The Desert Soil-Geomorphology Project .....	<i>John W. Hawley</i>	183
Why All the Fuss About Our Environment? .....	Charles B. Hunt	187

### Hydrology

Geology and Ground-Water Resources of the Las Cruces Area, New Mexico .....	<i>William E. King and John W. Hawley</i>	195
Rainfall-Runoff Relationships for a Small Semiarid Watershed, Western Flank San Andres Mountains, New Mexico .....	<i>William J. Stone and Daniel R. Brown</i>	205
Mixing of Thermal and Nonthermal Waters in the Margin of the Rio Grande Rift, Jemez Mountains, New Mexico .....	Frank W. Trainer	213
Chemical Quality of Ground Water in the Northern Part of the Albuquerque-Belen Basin, Bernalillo and Sandoval Counties, New Mexico .....	<i>William L. Hiss, Frank W. Trainer, Bruce A. Black and Douglas R. Posson</i>	219
Saline Ground Water in the Tularosa Basin, New Mexico .....	<i>J.S. McLean</i>	237

## Structure and Geophysics

Tectonic Map of the Rio Grande Region, Colorado-New Mexico Border to Presidio, Texas .....	Compiled by L. A. Woodward, J. F. Callender, J. Gries, W. R. Seager, C. E. Chapin, R. E. Zilinski and W. L. Shaffer	239
Cenozoic Tectonic Evolution of the Las Cruces Area .....	William R. Seager	241
Significance of Geothermal and Gravity Studies in the Las Cruces Area .....	<i>E.R. Decker, F. A. Cook, I. B. Ramberg, and S. B. Smithson</i>	251
An Interpretation of the Structural Geology of the Franklin Mountains, Texas .....	<i>Earl M. P. Lovejoy</i>	261
Combined Geophysical Studies at Kilbourne Hole maar, New Mexico .....	<i>Lindrith Cordell</i>	269
Direct-Current Soundings on the La Mesa Surface near Kilbourne and Hunt's Holes, New Mexico .....	<i>Dallas B. Jackson and Robert I. Bisdorf</i>	273
A Reconnaissance Audio-Magnetotelluric Survey at Kilbourne Hole, New Mexico .....	<i>D. B. Hoover and C. L. Tippens</i>	277
Telluric Current Sounding near Kilbourne and Hunt's Holes, New Mexico .....	<i>I. E. O'Donnell, R. Martinez and J. Williams</i>	279
Geomagnetic Variations at Kilbourne Hole, New Mexico .....	<i>I. N. Towle and D. V. Fitterman</i>	281
Emory Cauldron, Black Range, New Mexico: Source of the Kneeling Nun Tuff .....	<i>Wolfgang E. Elston, William R. Seager, and Russell E. Clemons</i>	283
Tectonic Significance of the Pony Hills, Luna County, New Mexico .....	<i>Leroy L. Corbitt and Fred L. Nials</i>	293
Evolution of the Rio Grande Rift in the Socorro and Las Cruces Areas .....	<i>Charles E. Chapin and William R. Seager</i>	297
Geology and Oil and Gas Potential of the Northeast Otero Platform Area, New Mexico .....	<i>Bruce A. Black</i>	323

## ABSTRACTS

Abstracts of Technical Papers: Base Metal and Precious Metal Districts of New Mexico and Arizona: A Symposium: New Mexico Geological Society and Arizona Geological Society: May 21-24, 1975, Silver City, New Mexico .....		335
Professional Directory.....		371

## POCKET CONTENTS

Tectonic Map of the Rio Grande Region, Colorado-New Mexico Border to Presidio, Texas .....	<i>L. A. Woodward, et al</i>	
Tectonic Map of Emory Cauldron and Adjacent Areas (Figure 1) .....	<i>Wolfgang E. Elston, William R. Seager, and Russell E. Clemons</i>	
Time-Stratigraphic Section East-West Across Otero Platform Area (Figure 2) .....	<i>Bruce A. Black</i>	
Geologic Cross Sections (Figure 4) .....	<i>Bruce A. Black</i>	

## THE 1974-75 TRANSITION



Newly elected officers of the New Mexico Geological Society and other committee members are shown as they attended a meeting held in Albuquerque. The officers and committee members shown in the photograph are, left to right, *back row*, Mr. Jack L. Ahlen, Consulting Geologist, Roswell, Treasurer; Dr. Charles E. Chapin, New Mexico Bureau of Mines and Mineral Resources, Socorro, Past President and Publications Chairman; Mr. Robert A. Bieberman, New Mexico Bureau of Mines and Mineral Resources, Socorro, AAPG Delegate; Ms. Anne K. Loring, Geologist, Continental Oil Company, Albuquerque, Treasurer-elect; Mr. William L. Hiss, Hydrologist, U.S. Geological Survey, Albuquerque, President; Dr. Jonathan F. Callender, Department of Geology, University of New Mexico, Albuquerque, Secretary-elect; and Dr. Lee A. Woodward, Chairman, Department of Geology, University of New Mexico, General Co-Chairman, Silver Anniversary Field Conference; *front row*, Mr. Robert L. Borton, Geologist, New Mexico State Engineer Office, Santa Fe, Publicity Chairman; Dr. William E. King, Chairman, Earth Sciences Department, New Mexico State University, Las Cruces, Chairman, Las Cruces Country Field Conference; Dr. Russell E. Clemons, Earth Sciences Department, New Mexico State University, President-elect; and Mr. James E. Fassett, Geologist, U.S. Geological Survey, Farmington, Vice President-elect. Photo taken November 23, 1974 by Dick Kent Studio.

## PRESIDENT'S MESSAGE

Welcome to the twenty-sixth consecutive Fall Field Conference of the New Mexico Geological Society! The pervasive Silver Anniversary spirit of 1974 did not wane. Thanks to the efforts of individuals dedicated to the betterment of the geological profession in New Mexico through the Society, the record accomplishments of last year have been surpassed. These achievements did not just happen. They were brought about by hard work and fruition of ideas by many energetic persons. Most of these are listed on the following pages under the committees.

In May, the New Mexico and Arizona Geological Societies co-sponsored a Symposium on Base Metal and Precious Metal Districts of New Mexico and Arizona in Silver City. Co-chairmen Chuck Chapin (N.M.G.S.) and Jim Sell (A.G.S.) put together a superb program attended by more than 400 geologists. They were ably assisted by Jim Robertson (Registration), Jack Cunningham (Local Arrangements), and many other members from New Mexico Bureau of Mines and Mineral Resources, Western New Mexico University, and the Arizona Geological Society. Abstracts of papers presented at the symposium, and highlights of the 1-day field trip that followed, are printed in this guidebook.

Continued efforts of the Publications and Sales Committee, under the guidance of Chuck Chapin and George Austin, have maintained guidebook sales at a record pace. Sales averaged about \$3500/month through June. This sales volume depleted the stock of some guidebooks but provided capital to reprint six guidebooks. The "sales-reprinting-sales treadmill" now appears to be going full speed and six more guidebooks will need reprinting in 1976 to keep full sets in print. The Executive and Publications-Sales Committees will be giving much consideration toward possibly letting some of the older guidebooks go "out of print" as they are duplicated wholly or in part by future conferences.

The size and quality of this guidebook would not have been possible without the support of our advertisers. A super effort by this year's Advertising Committee, guided by Stan Harrison and Bill Hiss, brought in over \$12,000 in income which

doubled last year's record high. In addition to the advertisements herein, American Smelting and Refining Co., Mobil Oil Corp., Occidental Minerals, Tucson Gas and Electric Co., and John West Engineering Co., contributed donations.

Membership in the New Mexico Geological Society now totals more than 800, an increase of about 300 over last year's record high. To Jon Callender and Anne Loring, into whose capable hands and sagacious heads fell the tasks and worries of maintaining the Society's books and financial records, I extend my thanks.

The success of any conference lies mainly with its chairman. We are fortunate this year to have Bill King at this post. His experience and consideration of detail have made this year's conference another milestone in the Society's history. Appreciation is also extended to John Hawley who spent long hours preparing the road logs. The editors wish to thank Chas. B. Hunt who prepared the sketch for the guidebook cover. All these persons deserve special thanks and congratulations on a job well done.

The foundation of the New Mexico Geological Society's continued success stands on the unceasing support of the New Mexico Bureau of Mines and Mineral Resources (Frank E. Kottowski, Director) and the U.S. Geological Survey (William E. Hale, District Chief, WRD). The directors and supervisors of these organizations, as well as those of the Geology Departments of the State Universities, State Highway Department, State Engineers Office, and many energy and mineral industry companies, have generously made available a vast store of professional, technical, and secretarial services. Sincere thanks are hereby extended to all these individuals and their staffs for their genuine interest in the welfare of the State through development of its energy and mineral resources.

On behalf of the Executive Committee and all the standing and organizing committees I hope you have a pleasant, instructive, and memorable stay in "Las Cruces Country."

Russell E. Clemons

# COMMITTEES

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Guidebooks 1-26 inclusive, Special Publications 1-4, and Geologic highway map of New Mexico (folded), postpaid. ....	\$260.00
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\*Prices shown include \$1.00 per item for postage and handling.

All publications are available by mail from the New Mexico Bureau of Mines and Mineral Resources, Socorro, NM 87801. Guidebooks, and the geologic highway map, are available over the counter at the New Mexico Bureau of Mines and Mineral Resources; the Department of Geology, University of New Mexico; Holman's, Inc. 401 Wyoming Blvd., Albuquerque; the Museum of Northern Arizona, Flagstaff; Pebble Pups Rock Shop, Las Cruces; and Roswell Map and Blueprint Co., 125 East 3rd St., Roswell.

A 30 percent reduction from the price of each publication is offered to students. Sales to students will be made only at the New Mexico Bureau of Mines at Socorro, the Department of Geology, University of New Mexico, Albuquerque, and the Department of Earth Sciences, New Mexico State University, Las Cruces. Student orders must be verified by the Department Chairman or another official of similar authority in the school attended. Only one copy of each publication may be purchased at the student price.

# 1975 FIELD CONFERENCE SCHEDULE

WEDNESDAY, NOVEMBER 12

1:00 p.m.-9:00 p.m.

5:30 p.m.-7:00 p.m.

REGISTRATION DAY

Register at Rodeway Inn

"Welcome" Party

THURSDAY, NOVEMBER 13

7:30 a.m.

6:00 p.m.-7:00 p.m.  
beer and soft drinks

7:00 p.m.  
dinner

FIRST DAY FIELD TRIP

Board Buses (Rodeway Inn) Charter to San Andres Mountains

Lunch enroute

Distance: 70.5 miles

Stops: 5

!FIESTA! Holy Cross Retreat

FRIDAY, NOVEMBER 14

7:30 a.m.

SECOND DAY FIELD TRIP

Board Buses (Rodeway Inn) Charter to Sierra de Las Uvas, Aden Crater, and southern Mesilla Valley

Lunch enroute

Distance: 130.1 miles

Stops: 5

Evening Free

SATURDAY, NOVEMBER 15

7:30 a.m.

THIRD DAY FIELD TRIP

Auto-caravan assembly (eastside Valley Drive). Caravan will tour north Mesilla Valley, Cedar Hills, Selden Canyon, San Diego Mountain and Rincon Valley.

Lunch enroute

Distance: 52.7 miles

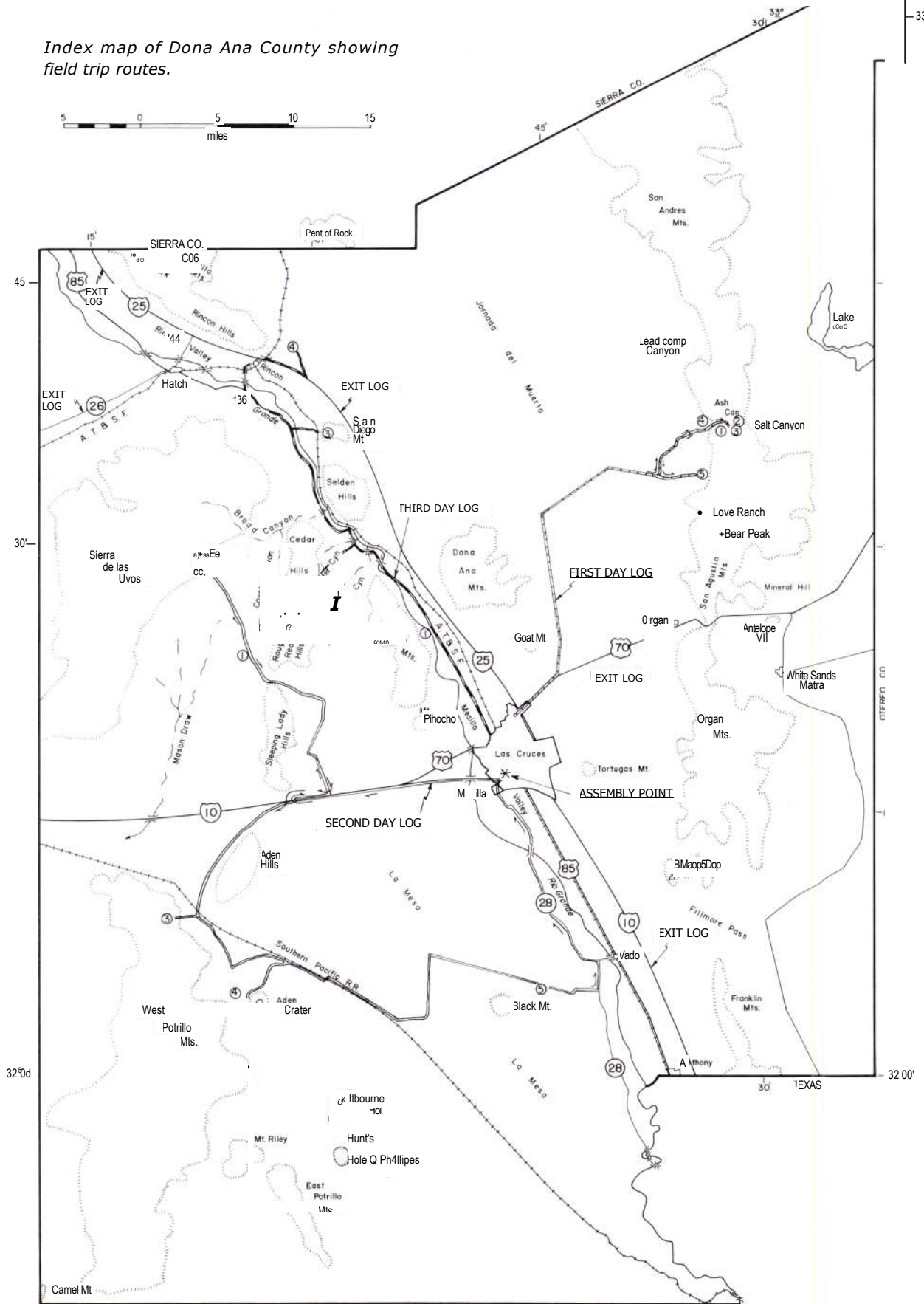
Stops: 4

# ADVERTISERS INDEX

Jack L. Ahlen	371	Falcon Research and Development Company	352
Alfco, Inc.	365	Fiesta Travel, Inc.	368
Amarex, Inc.	276	First National Bank of Dona Ana County	334
Amarillo Oil Company	351	First National Bankshare Corporation	358
AMAX Chemical Corporation	150	First State Bank of Socorro	361
AMAX Exploration, Inc.	118	Forestry Suppliers, Inc.	364
American Mud Company	355	Four Corners Exploration Company	350
American Paulin System	117	Franklin, Aston & Fair, Inc.	357
American Stratigraphic Company	353	French American Metals Corporation	364
Applied Geophysics, Inc.	368	Frontier Logging Corporation	117
Artesia Lumber Co.	367	Frontier Resources, Inc.	366
Ashland Oil	150	Fugro	362
Atlantic Richfield	186	G and G Jeep and Kawasaki	94
Atwater, Carter, Miller and Heffner	371	General Exploration Company	165
Bank of New Mexico	174	Geogestalt, Inc.	354
William B. Barnhill	371	Geohydrology Associates	372
Bass Enterprises Production Company	356	GeoMetrics/Exploranium	358, 360
Beard Oil Company	367	Geophysical Service, Inc.	104
Edward C. Beaumont	371	Geoscience Research Group	165
Robert E. Boling	371	Geoterrex Limited	74
Bovay Engineers, Inc.	371	Go International, Inc.	359
Boyd Operating Company	367	Grants Radiotelephone Service	361
Burmah Oil and Gas Company	351	Eugene Greenwood	372
C & C Drilling Company	367	Groundwater Surveys, Inc.	357
C & K Petroleum Company	355	Gulf Energy and Minerals Company	368
Carrico Lake Mining	240	William F. Guyton and Associates	372
Cementation Company of America, Inc.	356	W. Dow Hamm	372
Century Geophysical Corporation	334	Hanagan Petroleum Corporation	362
Century 21 Motel, Inc.	346	Lawrence C. Harris	372
Chapman, Wood & Griswold, Inc.	372	Harshbarger & Associates	372
Chesney Drilling Company	363	Harvard Exploration Company	369
Chevron Oil Company	350	Hecla Mining Company	357
Cleary Petroleum Corporation	369	Hewlett-Packard Company	351
Russell E. Clemons	372	Holiday Inn de Las Cruces	346
Coachlight Inn	346	Holman's, Inc.	369
Coastal States Gas Corporation	352	Howard Johnson's Motor Lodge	346
Cockrell Corporation	366	Mark Hurd Aerial Surveys, Inc.	364
Colorado Plateau Geological Services, Inc.	130	Charles B. Hunt	372
Consulting Professionals, Inc.	372	Hunt Oil Company	351
Continental Equipment and Supply Company	161	Hydrotechnics	204
Coquina Oil Corporation	368	I MCO Services	352
Glenn Cutter Jewelers, Inc.	367	International Harvester Co.	94
D & G Drilling Company	104	Intrasearch, Inc.	366
The Double Eagle Restaurant	346	I. R. Equipment Corporation	367
Dresser Atlas Division-Dresser Industries, Inc.	130	Jacobs Assay Office	359
John C. Drissel and Associates	372	Clyde L. Jones Drilling Company, Inc.	321
Dugan Production Corporation	88	John W. Jones Drilling Co., Inc.	365
Duval Corporation	156	L. C. Jones Drilling Contractor	276
Earth Environmental Consultants	372	Justis Supply Co., Inc.	161
Earth Resources Company	363	Kellogg Exploration Company	366
E G & G Environmental Consultants	194	Chino Mines Division, Kennecott Copper Corporation	260
El Adobe French Restaurant	346	Keradamex, Inc.	150
El Paso Natural Gas Company	348	Kern Instruments, Inc.	321
Equity Oil Company	349	Kerr-McGee Corporation	236
Exploration Surveys, Inc.	366	La Posta Restaurant	346
EXXON Co., U.S.A.	272		

Las Cruces Inn .....	346	Rocky Mountain Energy Company .....	349
Las Cruces Travelodge .....	346	Rocky Mountain Helicopters .....	356
Laughlin-Simmons & Company .....	361	Rocky Mountain Surveyors .....	359
Leggette, Brashears, & Graham .....	374	Rodeway Inn of Las Cruces .....	346
Curtis J. Little .....	374	Rogers Explorations, Inc. ....	272
Loman- Reed Chevrolet .....	94	Rust Tractor .....	322
Longyear .....	369	Sandoval Dodge .....	94
Lynes, Inc. ....	365	Scherer Custom Saddles .....	366
Charles A. Mardirosian .....	374	Schlumberger Well Services .....	334
Martin Water Laboratories, Inc. ....	122	George L. Scott .....	375
Mar-Win Development Company .....	365	Seismograph Service Corporation .....	218, 278
McAnulty & McAnulty .....	374	Shell Pipeline Corporation .....	88
Jerome!), McHugh .....	374	John W. Shomaker .....	375
McKnight Petroleum Trust—MACPET .....	368	Sierra Designs, Inc.....	352
McNutt Tool Company .....	365	Singer Water Resources .....	282
Mesa Petroleum Company .....	358	Sky Choppers, Inc. ....	355
Mesilla Book Center .....	367	J. K. Smit & Sons, Diamond Products, Ltd. ....	156
MG F Oil Corporation .....	365	Southwest Mud and Chemical Company .....	357
Midland Map Company .....	364	Southwestern Explosives, Inc. ....	368
Minerals Exploration Company .....	280	William R. Speer .....	375
Mining Geophysical Surveys .....	366	Stewart Brothers Drilling Company .....	212
Mission Inn .....	346	Structurmaps, Ltd. ....	360
Thomas W. Mitcham .....	374	Sunco Trucking Company .....	360
Mitron Systems Corporation .....	138	Superior Oil Company .....	353
Monsanto Company .....	368	SYN-AN, Inc. ....	322
Monument Energy Corporation .....	359	Tatsch Associates .....	356
Morrison-Maierle, Inc. ....	374	Technology Application Center .....	353
New Mexico Landmen's Association .....	350	Terradex Corporation .....	108
New Mexico Mining Association .....	366	Teton Exploration Drilling Company .....	349
N L Industries, Inc.....	369	Texaco, Inc. ....	182
Nord Resources Corporation .....	130	Texas American Oil Corporation .....	134
North American Exploration Company .....	355	Texas Oil and Gas Corporation .....	354
Northwest Exploration Company .....	363	Texas Pacific Oil Company, Inc. ....	358
Numonics Corporation .....	282	Tipperary Corporation .....	360
Odessa Reproduction Co. ....	361	Todd Travel .....	368
Willard Owens Associates, Inc. ....	375	Frederick D. Trauger .....	376
Oxford Exploration Company .....	369	Trollinger Geological Associates, Inc. ....	376
Ralph M. Parsons Company .....	375	Tyree Surveying Company .....	321
Thomas H. Paul and Associates .....	375	Union Carbide .....	367
Pebble Pups Rock Shop .....	250	Union Oil Company of California .....	204
Pennsylvania Drilling Company .....	362	Union Texas Petroleum .....	348
Petroleum Geophysical Company .....	349	University Ford .....	94
Petroleum Information Corporation .....	350	Utah International, Inc. ....	369
Petty-Ray Geophysical, Inc. ....	162	UV Industries, Inc. ....	365
Phelps Dodge Corporation .....	166	George Warnock .....	376
Phillips Petroleum Company .....	363	Warton Drilling Company .....	354
Pioneer Nuclear, Inc. ....	362	Water Development Corporation .....	137
Plateau, Inc. ....	108	Webb Resources, Inc.....	361
Potash Company of America .....	156	Welex—A Halliburton Company .....	348
Radare .....	365	Sherman A. Wengerd .....	376
Ranchers Exploration and Development Corporation .....	359	West Texas Well Log Service .....	348
Ranger Exploration, Inc. ....	137	Western Coal Co., Inc. ....	354
Read & Stevens, Inc. ....	361	Western Gasification Company .....	353
Ed L. Reed and Associates .....	375	Mark D. Wilson .....	376
Val R. Reese, Inc. ....	375	Woodward-Clyde Consultants .....	376
Reliable Reproductions, Inc. ....	334	Yates Petroleum Company .....	185
Reserve Oil & Gas Company .....	369	Zonge Engineering .....	376

Index map of Dona Ana County showing field trip routes.





*Apollo 6 photo of the Las Cruces Country. Scale is approximately 1 inch equals 10 miles.*