New Mexico Geological Society

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Front Matter

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

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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.

Free Downloads

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.

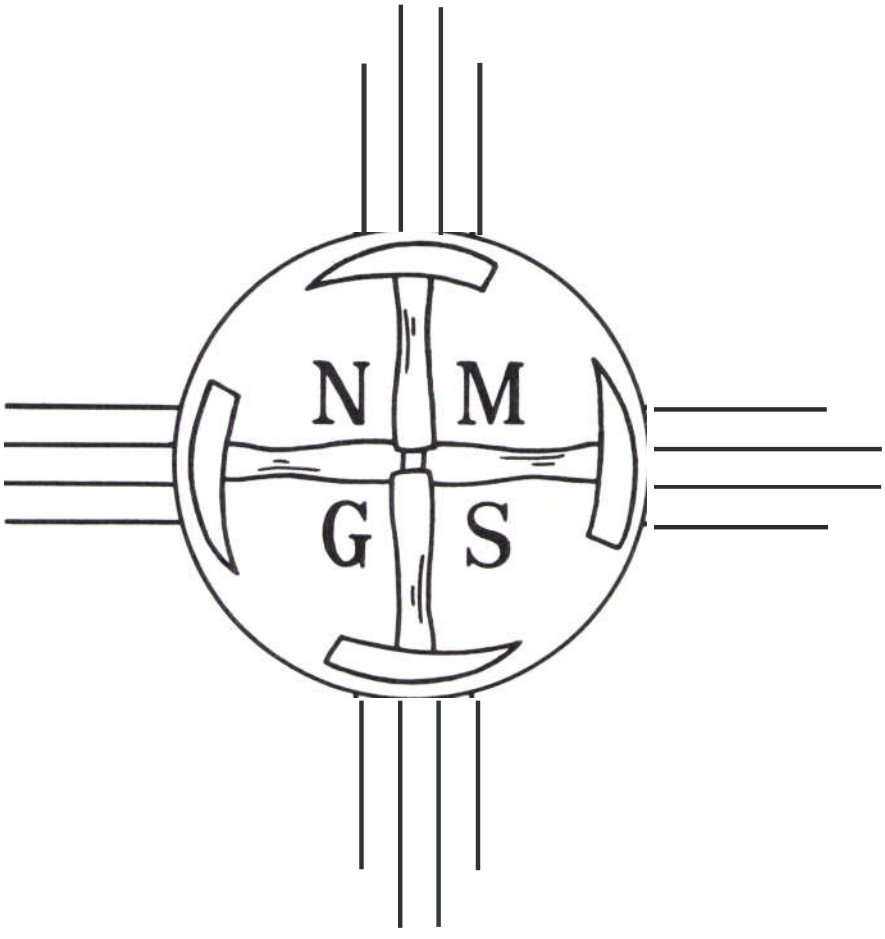
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NEW MEXICO GEOLOGICAL SOCIETY



Guidebook

OF

SOUTH-CENTRAL

NEW MEXICO

SIXTH FIELD CONFERENCE

NOVEMBER 11- 12 & 13, 1955

GREETINGS

The officers and field trip committee members of the New Mexico Geological Society and the Roswell Geological Society wish to extend to all conferees a warm and personal welcome to our Sixth Field Conference. This is the first joint venture of the two Societies, and we are confident that all will agree a field conference such as this could not materialize without the prevalence of an extremely cooperative spirit among those planning and managing this endeavor. Distances separating committee members presented a handicap, yet this conference serves as a commendable example of the ability of geological groups to unite in common purpose. We know that all participants will wish to join us in expressing sincere thanks and congratulations to those individuals of both Societies who assumed the responsibilities of organization and planning.

The region to be examined by this conference has a varied sedimentary section that represents a large majority of the units comprising the geologic column. The complex structure is a challenge to the inquiring mind. Regardless of whether your interest is academic, in the mining field, or in petroleum, you will be stirred by the geology to be observed and discussed.

One of the great advantages of a gathering such as this is the opportunity to form new acquaintances, renew former friendships, and enjoy informal discussion of our chosen field. The undersigned know that you will enjoy the good fellowship afforded by this conference, and we extend to each of you a cordial invitation to return next year.

Rex Alcorn, President
The Roswell Geological Society

Eugene Callaghan, President
The New Mexico Geological Society

TABLE OF CONTENTS

Title Page ---- 1
Greetings of the Two Societies ---- 2
Table of Contents ---- 3
List of Illustrations ---- 5
Officers of the Two Societies ---- 7
Acknowledgements ---- 7
Conference Committees ---- 8
Schedule ---- 9
Enstructions ---- 10
Introduction ---- 11
Index map ---- 13
First Day Road Log ---- 15
Second Day Road Log ---- 25
Third Day Road Log ---- 47
Historical Conspectus of South-Central New Mexico ---- 55
Nomenclature chart (correlation chart) ---- 61
Precambrian Rocks of South-Central New Mexico ---- 62
Pre-Pennsylvanian Stratigraphy of Southern New Mexico
By Rousseau H. Flower ---- 65
Pennsylvanian and Lower Marine Permian Stratigraphy of South-Central New Mexico
By M. L. Thompson and F. E. Kottlowski ---- 71
Stratigraphy of Outcropping Permian Rocks in Parts of South-Central New Mexico ---- 77
Mesozoic Stratigraphy of South-Central New Mexico
By Hugh P. Bushnell ---- 81
Cenozoic Sedimentary Rocks in South-Central New Mexico
By Frank E. Kottlowski ---- 88
Volcanic Rocks of South-Central New Mexico
By Richard H. Jahns, Frank E. Kottlowski, and Fredrick J. Kuellmer ---- 92
Regional Tectonics of South-Central New Mexico
By Vincent C. Kelley ---- 96
Geomorphology of South-Central New Mexico
By J. Paul Fitzsimmons ---- 105
The Occurrence of Ground Water in South-Central New Mexico
By C. S. Conover, E. H. Herrick, J. W. Wood, and J. E. Weir, Jr. ---- 108
Mineral Deposits and Mines in South-Central New Mexico
By E. C. Anderson ---- 121

Some Recent Discoveries of Uranium in Sierra County, *New* Mexico
By Fred S. Boyd, Jr. ---------- 123
Oil and Gas Possibilities of the Basins of the Sierra County Region
By J. L. Albright, Rex Alcorn, and H. S. Cave ---------- 124
Geology of San Andres Mountains
By Frank E. Kottlowski ---------- 136
Geology of the Caballo Mountains
By Caswell Silver ---------- 146
Geology of the Fra Cristobal Range
By Sam Thompson ---------- 155
Geology of the Sierra Cuchillo, New Mexico
By Richard H. Jahns ---------- 158
Some Notes on the Natural History of South-Central New Mexico
By J. Paul Fitzsimmons---------- 175
History of the Roswell Geological Society
By H. H. Krusekopf, Jr. ---------- 177
History of the New Mexico Geological Society
By T. F. Stipp ---------- 177
Members of the New Mexico Geological Society---------- 183
Members of the Roswell Geological Society ---------- 190
Business and Professional Directory ---------- 194

LIST OF ILLUSTRATIONS

(ABBREVIATED OR EXPLANATORY TITLES)

Geologic map of the Sierra County region ---- In pocket
Stratigraphic correlation of pre-Pennsylvanian formations along the Rio Grande Valley ---- In pocket
Structure sections of Caballo Mountains ---- In pocket
Index map of field trip areas showing approximate location of stops ---- 13
Route of first day's field trip ---- 14
Cross section of the San Andres Mountains ---- 17
Looking north from mouth of Rhodes Canyon toward Salinas Peak ---- 19
Thinning of Bursum reef limestone on southwest side of Rhodes Canyon ---- 22
Channel cut into massive Bursum limestone on northeast side of Rhodes Canyon ---- 22
Yeso formation capped by San Andres limestone north of Rhodes Pass ---- 23
Index map of the Truth or Consequences-Winston area ---- 24
Panoramic index on New Mexico Highway 52 one mile west of U. S. Highway 85 ---- 28
The Monticello trough and San Mateo Mountains, viewed northeastward from the north end of the Sierra Cuchillo ---- 30
Panoramic index from Stop No. 1, second day's field trip ---- 31
The west face of Burro Ridge near Willow Springs ---- 33
The Dictator mine area on the east face of the Cuchillo Negro Range ---- 35
Geologic map of the north-central part of the Sierra Cuchillo and adjacent areas ---- 36
East-dipping section of Permian strata near Red Hill Pass ---- 38
Stratigraphic section of Permian formations exposed in the vicinity of Red Hill Pass ---- 39
Poverty Creek "comes down" mildly at Winston during the summer of 1942 ---- 41
Geologic map of the northern part of the Sierra Cuchillo ---- 42
Mine workings developed in magnetite-rick tactite and fluorite-rich tactite on the west slope of Iron Mountain ---- 44
The northern part of the Black Range, viewed northwestward from Iron Mountain ---- 45
Eastward view of Iron Mountain, showing well-defined scarp of the western border fault ---- 46
Stream-cut exposure of "Winston beds" in valley of Poverty Creek about 5 miles north of Winston ---- 46
Air view northeast of Elephant Butte and vicinity ---- 48
Geologic map of the Elephant Butte Recreational Area ---- 49
Vertical air photo of the area near Stop No. 2, third day's field trip ---- 52
Geologic map and cross section of the Truth or Consequences area ---- 54
Paleozoic and Mesozoic correlation chart—south-central New Mexico ---- 61
Lower Paleozoic of southern New Mexico ---- 66
Diagram showing relationships of Permian rocks between Abo Pass and Caballo Mountains, south-central New Mexico ---- 79
Diagram showing relationships of Permian rocks between Caballo Mountains and Sacramento Mountains, New Mexico ---- 79

Diagram showing the relationships of the Hueco limestone to the Abo and Bursum formations in the San Andres Mountains ---- 79
Mesozoic stratigraphic sections in south-central New Mexico ---- 82
Map of south-central New Mexico showing the postulated pinch-outs of the Triassic and marine Lower Cretaceous rocks ---- 83
Diagrammatic cross section showing the lithofacies in the Jose Creek member of the McRae formaton ---- 86
Love Ranch conglomerates ---- 89
Basal Palm Park beds near Caballo Mountains ---- 89
Basalt flow in lower Santa Fe beds near Radium Springs ---- 90
Santa Fe outcrops near Hatch ---- 90
Outline map of the principal tectonic features of the Sierra County region ---- 96
Eastern Rockies belt of Colorado and New Mexico showing the line of principal intermontane troughs 99
Structure sections across south-central New Mexico ---- 100
Generalized geology and approximate altitude of the water table in south-central New Mexico ---- 109
Map of Jornada del Muerto area showing pinch-out of northern edges of pre-Pennsylvanian rocks ---- 125
Stratigraphic correlation diagram of pre-Pennsylvanian formations along east side of Jornada del Muerto and Oscura Mountains ---- 126
Stratigraphic correlation diagram of pre-Pennsylvanian formation to west of Jornada del Muerto in Caballo, Mud Springs, Cuchillo Negro, and Fra Cristobal Mountains ---- 126
Map showing well locations and possible northern limits of several systems in the Sierra County region ---- 128
Data of pertinent wells in south-central New Mexico ---- 130
Armed services land withdrawal data, Tularosa basin area ---- 134
Index map of the San Andres Mountains ---- 136
Typical exposures of lower Paleozoic rocks in central part of the San Andres Mountains ---- 137
Chert in Aleman dolomite 139
Contact of Fusselman dolomite and underlying Cutter-Valmont dolomite ---- 139
Upper Ordovician to Pennsylvanian exposures in central San Andres Mountains ---- 140
Mississippian cliff in southern San Andres Mountains ---- 140
Basal Pennsylvanian conglomerate fill in channel cut through Tierra Blanca and Nunn members and into Alamogordo member of Lake Valley limestone, central San Andres Mountains ---- 141
Virgilian bioherms ---- 142
Stratigraphic table of the Caballo Mountains area ---- 146
Principal tectonic features of Caballo Mountains ---- 154
Geologic map of the Sierra Cuchillo and adjacent areas ---- 158
East-southeastward view of the Northern Cuchillo ---- 160
Structure section across the Sierra Cuchillo and adjacent areas in the general latitude of Winston ---- 161
Vertical air view of a part of the Southern Cuchillo ---- 162
View southeastward from the Sierra Cuchillo in the vicinity of Red Hill Pass ---- 163
Typical light-colored, fine-grained granulite veined by dark-colored, iron-rich tactite, Iron Mountain ---- 164
Typical "ribbon rock" variety of tactite, Iron Mountain ---- 165
Layered rocks of the Sierra Cuchillo and immediately adjacent areas ---- 166
Principal intrusive rocks of the Sierra Cuchillo and immediately adjacent areas ---- 171

OFFICERS

OFFICERS OF THE NEW MEXICO GEOLOGICAL SOCIETY

Eugene Callaghan	President	New Mexico Bureau of Mines and Mineral Resources
Roy F. Milks	Vice-President	Magnolia Petroleum Company
	Secretary	
Arnold Buzzalini (First half)		Pubco Development Company
Robert D. Odell (Second half)		Pubco Development Company
J. Paul Fitzsimmons	Treasurer	University of New Mexico

OFFICERS OF THE ROSWELL GEOLOGICAL SOCIETY

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F. C. Witmer	Vice-President	Atlantic Refining Company
Frank W. Podpechan	Secretary	Stanolind Oil and Gas Company
M. J. Bender	Treasurer	Magnolia Petroleum Company

ACKNOWLEDGMENTS

The officers and members of the New Mexico Geological Society and the Roswell Geological Society wish to express their appreciation to the Military Authorities of the White Sands Proving Grounds for permission to study the stratigraphic section in the San Andres Mountains. Particularly is this appreciation directed to Colonel James R. Mills, Executive Officer, to Colonel F. W. Laskowski, Adjutant, and to Colonel George W. Harris, Provost Marshall, White Sands Proving Grounds. Gratitude is expressed to Stanford L. Rose, of the Standard Oil Company of Texas, who, as General Chairman, did a fine job of organization of the field conference before he was transferred from the territory and was thus prevented from attending the full development of the program. There are no words to repay those who gave freely of their time, effort, and thought to produce this guidebook and to effect, hopefully, a fruitful, informative field conference. There is no money to repay them either, for what was freely given was as freely received. But without the intellectual donations of these competent men, such field conferences would not be possible. Such donations are not everywhere labelled with the author's name ; they may be in part anonymous, in part so involved in the work of others that the product of one man's thoughts cannot be separated from those of another. They are equally appreciated. To all who contributed then, in any form, a grateful smile and a firm handclasp.

CONFERENCE COMMITTEES

General Chairman

Stanford L. Rose	Standard Oil Company of Texas
J. Paul Fitzsimmons	University of New Mexico

Advisory-Executive

Rex Alcorn	Sun Oil Company
Ben Baldwin	Stanolind Oil and Gas Company
Edward C. Beaumont	United States Geological Survey
Hugh P. Bushnell	Humble Oil and Refining Company
Eugene Callaghan	New Mexico Bureau of Mines and Mineral Resources
Vincent C. Kelley	University of New Mexico
Frank E. Kottlowski	New Mexico Bureau of Mines and Mineral Resources

Guidebook

J. Paul Fitzsimmons (Compiler and Editor)	University of New Mexico
H. H. Krusekopf, Jr. (Editor)	Pubco Development, Inc.
Philip T. Hayes	United States Geological Survey

Road Log

Frank E. Kottlowski (Chairman)	New Mexico Bureau of Mines and Mineral Resources
Hugh P. Bushnell	Humble Oil and Refining Company
Richard H. Jahns	California Institute of Technology
Vincent C. Kelley	University of New Mexico

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M. J. Bender	Magnolia Petroleum Company
Richard L. Evans	Stanolind Oil and Gas Company
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W. S. Wallace (Banquet Arrangements)	Cities Service Oil Company

Caravan

Philip T. Hayes (Chairman)	United States Geological Survey

Advertising

A. A. Koenig, Jr.	Sinclair Oil and Gas Company
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Publicity

Ben Bourn	Standard Oil Company of Texas

SCHEDULE

Thursday, November 10.

12 :00 m. Registration. Recreation Center in Truth or Consequences. Afternoon and Evening.

Friday, November 11. Trip to the San Andres Mountains.

7 :00 a.m. Caravan assembles at intersection of Date (U.S.85) and Third (N. M. 51) Avenues.
7:30 a.m. Caravan leaves Truth or Consequences.
12 :00 m. Lunch in Rhodes Canyon near mouth of Bearden Canyon : 43 :3 miles from assembly point.
3 :30 p.m. Caravan leaves San Andres Mountains.
5:00 p.m. Arrival in Truth or Consequences.
7 :30 p.m. Late Registration at the Recreation Center in Truth or Consequences.

Saturday, November 12, Trip to the Sierra Cuchillo

7 :30 a.m. Caravan assembles at the north end of the Cuchillo Creek Bridge ; 2.5 miles north of the Post Office on U. S. 85. (Mileage 2.5 on second day's road log.)
8 :00 a.m. Caravan leaves assembly point.
12:30 p.m. Lunch in vicinity of Winston. 3
:30 p.m. Brown City. Disband.
5 :00 p.m. Arrival in Truth or Consequences.
6 :00 p.m. Cocktail Hour. Recreation Center in Truth or Consequences.
7 :00 p.m. Banquet. Recreation Center in Truth or Consequences.

Sunday, November 13. Trip to Elephant Butte and north end of the Caballo Mountains.

7:30 a.m. Caravan assembles at intersection of Date (U. S. 85) and Third (N. M. 51) Avenues.
8:00 a.m. Caravan leaves Truth or Consequences.
12 :00 m. Lunch in eastern "foothills" of Caballo Mountains ; 27.5 miles from assembly point.
3 :30 p.m. Caravan disbands at Stop No. 4 on west side of Caballo Mountains.

END of CONFERENCE

GENERAL INSTRUCTIONS

1. It is imperative that the caravan starts each morning at the announced departure time. Please assemble at assembly time, not at departure time.
2. If you require transportation for the trip, notify a member of the Caravan Committee at time of registration.
3. Please pay your lodging bill in advance or before you go to breakfast so you will not delay the departure time of the caravan.
4. The person sitting in the front seat with the driver will keep him informed of stops, points of danger, points of interest, etc., noted in the road log, and he should read the geologic road log to the driver.

SPECIAL INSTRUCTIONS TO CAR DRIVERS

1. DO NOT DISREGARD THE WARNINGS IN THE ROAD LOGS CONCERNING ROAD CONDITIONS. THEY ARE FOR YOUR PROTECTION.
2. You will be given numbered placards for attachment to your car windows. This number designates your position in the caravan and must be displayed. NO CAR WILL BE ASSIGNED A NUMBER UNLESS IT WILL CARRY AT LEAST FOUR PASSENGERS.
3. If for any reason you have dropped out of line you may resume your position at any subsequent stop. A space will be left for you by the driver to your rear at all stops until you return.
4. Never pass another conference car while the caravan is in motion unless that car has dropped out of line.
5. If you have car trouble, please stop at the side of the road and allow the caravan to pass. If you need help, flag down the tow-car which will be at the rear of the caravan.
6. Please service your car at night to insure prompt departure the following morning.
7. You should carry water if your car has a tendency to overheat.
8. Please pay particular attention to instructions pertaining to parking at all stops and promptly obey the directions of the flag men.