

Report of Investigation Number Four



# SELECTED PALEOZOIC STRATIGRAPHIC SECTIONS IN ARIZONA

By Edward A. Koester

John Bannister  
Executive Secretary

ARIZONA OIL AND GAS CONSERVATION COMMISSION  
4515 North Seventh Avenue, Phoenix, Arizona 85013  
November, 1973

## CONTENTS

	Page		Page
INTRODUCTION	1	SELECTED REFERENCES	2
INDEX TO LOCALITIES AND SOURCES	1	APPENDIX	2
Stratigraphic interval	1	DISCUSSION	2
Location of sections	1	ACKNOWLEDGMENTS	2
Name of section	2		
Source reference number	2		

## INDEX MAP

Selected Paleozoic Stratigraphic Sections,  
State of Arizona  
(in envelope)

## TABLES

		Page
Table 1	Index to localities and sources	3
2	Selected references	13
3	Index to localities and sources	23
4	Source references	24

# SELECTED PALEOZOIC STRATIGRAPHIC SECTIONS IN ARIZONA

By Edward A. Koester

## INTRODUCTION

Strata of Paleozoic age crop out extensively within the Colorado Plateau province, Central Mountainous region, and the southeastern part of the Basin and Range province of Arizona. These rocks are known to occur in southwestern Arizona but are not well covered in geologic publications.

The purpose of this report is to provide geologists with the location, name, and stratigraphic interval of selected measured and described outcrop sections of Paleozoic rocks in Arizona and the references to such sections.

Uniformity of treatment, desirable as it may be, has not been achieved. For example, due to the excellent studies of McKee and Gutschick, the Mississippian has been better covered than the Permian. The detailed work of Teichert, Wright, Beus, LeMone, and Pine has given us an excellent understanding of the Devonian. Recent work in southeastern Arizona by Hayes and Krieger has cleared up many of the problems of the Cambrian.

In the preparation of this report, carefully measured sections for which locations can be determined accurately have been given preference. Unfortunately, many of the "classic" sections referred to in the geologic literature of Arizona do not come up to these standards. This is especially true of many of the very old geologic sections in the mining districts, many of which have not been listed. Fortunately, later workers

in some cases have measured and described nearby sections. In many instances this work, chiefly by U. S. Geological Survey geologists, has corrected earlier determinations and correlations.

## INDEX TO LOCALITIES AND SOURCES TABLE 1

In this table, each outcrop section and pertinent source reference have been numbered. The tabulation shows: (a) the map number of each outcrop section; (b) its location by township, range, and section (insofar as possible); (c) the principal stratigraphic interval encompassed by the section; (d) the name of the section; (e) the county in which it is located; and (f) the number or numbers of the references in which the section is described or mentioned.

Stratigraphic interval. The age of rocks exposed at each section is shown in this column. The system abbreviations used are: P = Permian; Pn = Pennsylvanian; M = Mississippian; D = Devonian; O = Ordovician; C = Cambrian; and PC = Precambrian.

Location of sections. Four symbols have been used to indicate the degree of geographic information available for positioning the localities on the index map: circle = located within a specified section; upright triangle = located within two or more specified contiguous sections; inverted triangle = located within a specified township (approximate part thereof, if reported); and bar = located within two or more specified townships.

Sections 109, 112, 134 and 137 are not shown on the map.

In order to eliminate crowding of numbers on the map, sections by one author in some instances have been consolidated with sections of another author so that the net result has been the inclusion of longer stratigraphic intervals and the creation of a more or less typical stratigraphic section for that locality.

Name of section. The naming of the sections has presented problems. Wherever feasible the name originally used for any definite section has been retained. However, some names are too indefinite (such as Pedregosa Mountains section) or have been used by different authors for sections in different local areas (such as Salt River section). Recent workers, fortunately, have helped clear up this problem by using more localized names for their measured sections. However, in other cases it has been necessary to give new names to these sections. When this has been done, some prominent topographical or cultural feature that identifies the outcrop section has been used. When this has not been possible, an older and broader identification name has been used.

Source reference number. The number or numbers of the references in which the stratigraphic section is described and(or) measured is shown in the right-hand column. Not all pertinent references are included. Rather, the references which give the latest and most detailed information on the stratigraphy of each section are shown.

## SELECTED REFERENCES - TABLE 2

The number of the source reference(s) listed in Table 1 for each stratigraphic section shown on the map, and supplemental references, are included in this tabulation.

## APPENDIX 1

Table 3, Index to Localities and Sources and Table 4, Source References present stratigraphic section data from Northern Arizona University unpublished Master Theses obtained too late to incorporate in Tables 1 and 2.

## DISCUSSION

Most of the sections listed in Table 1, and shown on the map, are along or near the southwest edge of the Colorado Plateau province. This province is one that offers various kinds of traps in Paleozoic reservoir rocks capable of containing oil and gas accumulations. Hopefully this publication will be useful to geologists searching for energy resources in Arizona.

## ACKNOWLEDGMENTS

In the preparation of this report helpful information and advice relating to its preparation obtained from J. N. Conley, John Jett, H. W. Peirce, Richard R. Rawson, and J. J. Wright, Jr. are greatly appreciated.

TABLE 1. INDEX TO LOCALITIES AND SOURCES

---

SELECTED PALEOZOIC STRATIGRAPHIC SECTIONS

IN

ARIZONA

TABLE 1. Index to Localities and Sources

Map No.	Location	Stratigraphic Interval	Name of Section	County	Source Reference Number
1	4N-18E-26	D	Sawmill Road	Gila	123
2	4N-20E-2 SW4	D	Black River	Gila	123
3	5N-18E-16 20 29	P-D	Flying V Canyon	Gila	123 57 127
4	5N-19E-30	D	Salt River Asbestos Mine	Gila	123
5	5N-17E-36	D	Salt River Bridge, south of	Gila	123
6	6N-16E-25 SE NE	D	Salt River Draw, south	Gila	123
7	6N-16E-1	D	Salt River Draw, north	Gila	123
8	6N-16E-9 E of Center	D	Canyon Creek	Gila	123
9	8N-16E-32 E of Center	M D	Oak Creek Farm Road	Navajo	123 56 57
10	9N-15½E-36 SW NW	M D	Chediski	Navajo	123 56 57
11	9N-15½E-36 SE SW	D	Spring Canyon	Navajo	123
12	9N-15E-1 2	D	Lost Tank Canyon	Gila	123
13	9N-15E-3 NW4	D	Lost Tank Canyon SW	Gila	123
14	27N-15W-16	C	Clay Spring	Mohave	90
15	29N-15W NW part	D	S Grand Wash Cliffs	Mohave	90
16	10N-14E-23 NE4	D	Naeglin Rim	Gila	123
17	10½N-14E-26?	D	Upper Colcord Canyon	Gila	123
18	10N-14E-5 NW4	D	Turkey Peak	Gila	123
19	10½N-13E-12	D	Christopher Mtn Ridge	Gila	123
20	36N-5E-20?	M	Marble Canyon	Coconino	87
21	35N-5E	M	Mile 44	Coconino	87
22	31N-5E-33?	M	Tanner Trail	Coconino	87
23	30N-4E-2	M	Hance Trail, Red Canyon	Coconino	87 11
24	31N-4E-32	Pn M	Grandview Trail	Coconino	87 127
25	31N-3E-5? 8?	Pn M	Kaibab Trail, south	Coconino	87 127
26	31N-2E-14	P Pn M	Bright Angel Trail	Coconino	87 15
27	31N-2E-8?	M	Hermit Trail	Coconino	87
28	33N-3E-35	M	Kaibab Trail, North Rim	Coconino	87
29	32N-1W NE part & 33N-1W SE part	P-PC	Bass Trail	Coconino	87 95 127
30	11N-13E-32 NW4	D	Hunter & Sharp Creeks	Gila	123
31	11N-13E-30 W2 SE4	D	Hunter Creek	Gila	123
32	33N-4W	M	Havasut Canyon	Coconino	87
33	35N-2W-25 SW4	M	Thunder River	Coconino	87
34	36N-3W-20	M	Kanab Canyon	Mohave & Coconino	87
35	33N-9W	P-C	Hurricane Cliffs, south	Mohave	90

TABLE 1. Index to Localities and Sources

Map No.	Location	Stratigraphic Interval	Name of Section	County	Source Reference Number
36	33N-7W-32 SW4	M	Toroweap Point	Mohave	81 87 88
37	32N-9W-24 25	M D	Whitmore Wash	Mohave	12 86 87
38	32N-9W NW part	M	Parashant Canyon	Mohave	87
39	26N-9W-6	M	Metuck Canyon	Coconino	81 87
40	27N-10W-4 5	M D	Diamond Creek	Mohave	81 87
41	26N-10W-8	M	Peach Springs Wash	Mohave	42 87
42	27N-12W-23	M	Hindu Canyon	Mohave	87
43	27N-12W-10 14	M D	Bridge Canyon	Mohave	87 12
44	28N-13W-31	M D	Meriwitica Canyon	Mohave	87 81 88
45	30N-14W-SE part	M D C	Quartermaster Canyon	Mohave	87 81 88
46	32N-16W-7	M D	Iceberg Canyon	Mohave	87 81 12
47	34N-14W	M	Grand Wash Cliff, near Trail	Mohave	87
48	35N-16W-10	Pn M	Pakoon Ridge	Mohave	87 15 90
49	32N-16W SE part	C	Rampart Cave	Mohave	81 87 90
50	17S-24E-18 SW4	D	Cochise Stronghold	Cochise	68
51	19S-15E-1?	D	Greaterville	Pima	113
52	10S-16E-21	D	Peppersauce Camp	Pinal	113
53	20S-15E-1	D	Sawmill Canyon	Santa Cruz	120
54	18S-24E-7	D	Dragoon Mtns	Cochise	45
55	18S-18E-1 11 13 24	P-PC	Whetstone NW	Pima	30
56	25N-10W-19 20 27 28	M	Nelson Station	Yavapai	87
57	24N-11W-8	M D	Cherokee Point	Mohave	87 132 12
58	24N-11W-21	M	Rock-Blye	Mohave	87 132
59	23N-11W-20	M D	Ring Cone	Mohave	87 132 12
60	24N-9W-1	M	Yampai	Yavapai	87
61	24N-8W-19	M	Pica Station	Yavapai	87
62	22N-7W-3	M	Chino Point	Yavapai	87
63	22N-8W-4	M	Seligman Field	Yavapai	87
64	22N-8W-22	M	Seligman South	Yavapai	87
65	21N-9W-21	M	North Cross Mountain	Yavapai	87
66	21N-9W-33	M D C	South Cross Mountain	Yavapai	87 90 132
67	20N-7W-2	M	West Juniper	Yavapai	87
68	21N-5W-4 11	M	Picacho 1	Yavapai	87
69	21N-4W-18	M	Picacho 2	Yavapai	87
70	20N-4W-23 26	M D	South Butte	Yavapai	87 12
71	19N-3W-9	M	Fritsche Peak	Yavapai	87
72	19N-6W-23	M	Red Mountain	Yavapai	87

TABLE 1. Index to Localities and Sources

Map No.	Location	Stratigraphic Interval	Name of Section	County	Source Reference Number
73	18N-7W-12 S2	M	Geo Wood Canyon	Yavapai	87
74	16N-3W-1 & 16N-2W-6	M	Simmons	Yavapai	87
75	19N-3W-13	M	Black Mesa F	Yavapai	87
76	19N-2W-19	M	Black Mesa E	Yavapai	87
77	19N-2W-30	M	Black Mesa D	Yavapai	87
78	7N-31E-28 29	P Pn	Mamie Creek	Apache	134 41
79	22N-8E-30 NW4	D	Mt Elden	Coconino	121 123 12
80	18N-2W-9	M	Black Mesa A	Yavapai	87
81	19N-1W-30	M	Hell Canyon 1	Yavapai	87
82	24N-5E-2	M	Slate Mountain	Coconino	87
83	23N-6E-12	M	White House Hills	Coconino	87
84	22N-7E-25	M	Elden Mountain	Coconino	87
85	18N-1E-28	M	Perkinsville	Yavapai	87
86	18N-3E-32	M	Sycamore Canyon	Yavapai	87
87	16N-1E-12	M	Bodkin	Yavapai	87
88	16N-1W-14	M	Lonesome Valley	Yavapai	87
89	16N-1E-25	M	Mingus Mountains, West	Yavapai	87
90	16N-2E-21	M D	Jerome	Yavapai	87 123
91	15N-2E-8	M	Mingus Pass	Yavapai	87
92	12N-7E-13 14	P Pn M	Fossil Creek	Gila	87 56 127
93	12N-9E-36 NW4	M	Webber Creek	Gila	87
94	11N-9E-8	M D	Natural Bridge	Gila	87 123
95	11N-10E-6 7	M	East Verde River	Gila	87
96	11N-12E-9	M D	Tonto Creek	Gila	87 57
97	11N-12E-20	M	Kohl Ranch	Gila	87 114
98	10½N-14E-34	M D	Colcord Canyon	Gila	87 57
99	10½N-15E-27 W2	M D	OW Ranch 1	Gila	87 57
100	10½N-15E-34	M D	OW Ranch 2	Gila	87 57 123
101	7N-16E-8?	M	Brush Mountain	Navajo	87
102	7N-16E-24	M	Salt River Draw 1	Gila	87
103	6N-16E-1	M	Salt River Draw 2	Gila	87
104	5N-18E-20	M D	Salt River	Gila	87 57
105	4N-20E-11	Pn-PC	Black River Crossing	Gila	87 57 123
106	11N-13E-30 NW4	D	Christopher Ranch	Gila	123
107	11N-12E-25 NE4	D	Christopher Creek	Gila	123
108	11N-12E-25 NE4	D	Christopher Creek Camping Area	Gila	123



TABLE 1. Index to Localities and Sources

Map No.	Location	Stratigraphic Interval	Name of Section	County	Source Reference Number
109	11N-12E-26 N2 SE4	D	Boy Scout Ranch	Gila	123
110	11N-12E-22 Center	D	Doubtful Creek	Gila	123
111	11N-12E-16 NW4	D	Tonto & Horton Creeks	Gila	123 114
112	11N-12E-21 SE4	D	Kohl Ranch SE	Gila	123
113	11N-12E-29	D	Thompson Wash	Gila	123
114	25N-10W-28	M	Shipley Quarry	Mohave	87
115	32N-10W	M	Andrus Canyon	Mohave	87
116	18N-6W-14?	D C	Walnut Creek	Yavapai	90 12
117	16N-3W	D C	Simmons Pueblo	Yavapai	90 12
118	21N-5W	M	Chino Valley	Yavapai	90
119	24N-7W to 26N-7W	P	Aubrey Cliffs	Coconino	90
120	26N & 27N - 9W & 10W	P	Peach Springs Canyon	Mohave & Coconino	90
121	22N-6W-33	M	Chino North	Yavapai	87
122	25N-11W-24?	M	Peach Springs Roadcut	Mohave	87
123	19N-3W-23	M	Black Mesa G	Yavapai	87
124	15N-3E-7	M	Clemenceau Quarry	Yavapai	87
125	16N-2E-16	M	Jerome Quarry	Yavapai	87
126	25N-10W-26	M	Nelson Quarry	Yavapai	87
127	7S-18E-15 SE4	M	Virgus Canyon	Pinal	124
128	8S-1W	M D C	Sand Tank Mountains	Maricopa	118
129	17S-17E S part	P	Eagle Cliff	Pima	38
130	1N-14E-5 6	M D	Gold Gulch	Gila	57
131	5S-15E-1?	M D	Tornado Peak	Gila	57
132	24N-11W-17 NE4	C	Cherokee Point, east	Mohave	132
133	25N-12W-20?	C	Music Mountain	Mohave	132
134	16N-2E-17?	M	Supai Shale Pit	Yavapai	87
135	19N-1W-32	M	Drake Quarry	Yavapai	87
136	18N-1W-5	M	Hell Canyon 2	Yavapai	87
137	16N-2E-16	M	First View	Yavapai	87
138	11N-11E-23 NW4	D	Diamond Point	Gila	123
139	12N-10E-31 S2	D	Webber Creek	Gila	123
140	11N-10E-6 7 8 17	Pn M D C?	East Verde River	Gila	127 123 57
141	6N-17E-30	M D	Rockhouse Butte	Gila	57
142	6N-16E-1 2 13	M D	Salt River Draw	Gila	57
143	7N-16E-4 5 8	M D	Cliff House Canyon	Navajo	57
144	3S-15E & 3S-16E	M D C	Mescal Mountains	Gila	100

TABLE 1. Index to Localities and Sources

Map No.	Location	Stratigraphic Interval	Name of Section	County	Source Reference Number
145	4N-12E-20 29	D	Roosevelt Dam	Gila	123 57
146	4N-12E-24	M D	Windy Hill	Gila	123 57
147	1S-12E-36 & 2S-12E-2	Pn M D	Queen Creek Mine	Pinal	127 96 102
148	5N-17E-25	D	Prochnow Mines	Gila	57
149	14S-21E-16 21	M D C	Rattlesnake Ridge	Cochise	45 133 29
150	15S-22E-21 27	D C	Little Dragoon Mountains	Cochise	29
151	15S-22E-23 SW4	D C	Johnson Mining District	Cochise	29
152	16S-23E-4 9	Pn M D C	Gunnison Hills	Cochise	127 133 29
153	15S-21E-20 SE4	C	Johnny Lyon Hills	Cochise	29
154	15S-22E-30 SE4	C	Lime Peak	Cochise	29
155	15S-21E-10 11	D C	Javelina Hill	Cochise	68 39
156	16S-23E-4 & 15S-23E-33	Pn	Main Peak Gunnison Hills	Cochise	29
157	15S-23E-28 NW4	P	Scherrer Ridge	Cochise	29 75
158	21S-23E-5	P	Earp Hill	Cochise	45 114 127
159	12S-11E-26 27	Pn-PC	Twin Peaks	Pima	16 114 127
160	15S-28E-1 2	M D O C	Apache Pass	Cochise	115 52 133
161	16S-31E-20 SW4	M D O C	Blue Mountain	Cochise	114 8 115
162	17S-31E-15 21	P-C	Portal	Cochise	114 115 127
163	14S-26E-26 NE4	Pn-PC	Dos Cabezas	Cochise	114 115 52
164	22S-18E-7 NE4	D	Escabrosa Hill	Santa Cruz	33
165	15S-30E-14 23 27	Pn	Dunn Springs Mountain	Cochise	114 115
166	16S-30E-17 18	P Pn	Indian Creek	Cochise	114 115
167	19S-19E-15 19	Pn	Dry Canyon	Cochise	107
168	21S-29E-32 E2	O C	Big Bend Creek	Cochise	35
169	21S-30E-31 32	D O C	Boss Ranch 1	Cochise	35 96
170	20S-29E-21	O	Deer Mountain	Cochise	35
171	21S-28E-28 29	D O	Leslie Pass	Cochise	35
172	19S-27E-35 & 20S-27E-2	D O C	Small Gulch	Cochise	35 74
173	21S-28E-26 N2	D	S Big Bend Creek	Cochise	35
174	21S-28E-27 NE4	D	N Castle Dome	Cochise	35
175	4S-30E-19?	O C	Morenci East	Greenlee	52 71
176	4S-29E-16 21	D C	Morenci Pit	Greenlee	52 102
177	23S-24E-7 18	D C	Mule Mountains	Cochise	53 52
178	23S-23E-27 35	Pn	Naco Hills	Cochise	53 114 127
179	23S-23E-4 9	M D	Rim Rock Ranch	Cochise	53
180	23S-24E-26 N2	M D	Black Gap	Cochise	96 53 133

TABLE 1. Index to Localities and Sources

Map	Location	Stratigraphic Interval	Name of Section	County	Source Reference Number
181	22S-23E-20 SE4	P Pn	Northwest Mule Mountains	Cochise	53
182	4S-15E-26 NW4	M	Hayden	Gila	96
183	20S-22E-23	M D	Military Hill	Cochise	96 133 45
184	10S-2E-1	P-PC	Vekol Mountains	Pinal	26 127 54
185	10S-4E-1 12?	M D C	Slate Mountains	Pinal	54 77
186	12S-7E-24	M	Kohtkohl Hill	Pima	78
187	12S-8E-36 & 12S-9E-31	P-PC	Waterman Mountains	Pima	77 114
188	10S-16E-33	M D C	Nuggett Canyon	Pinal	30 133 102
189	21S-16E?-2?	P	Alamo Gorge	Santa Cruz	38
190	12S-18E-5 8	M D	Buehman Canyon	Pima	133 89
191	21S-31E-29 NW4	D	Boss Ranch 2	Cochise	133
192	16S-17E-9	D	Colossal Cave	Cochise	133
193	14S-21E-34 35	D	Deepwell Ranch	Cochise	133
194	18S-24E-31 NW4	M D C	Dragoon Mountains	Cochise	133 45
195	19S-19E-14 15 21 22 23 27	Pn M D	Dry Canyon	Cochise	133 30 114
196	15S-22E-9 15	M D	Seven Dash Ranch	Cochise	133 45 46
197	9S-5E-30	M D C	Lake Shore Mine	Pinal	133 50
198	12S-8E-25 W2	D C	Waterman Mountains	Pima	133 76 68
199	15S-12E-3 4	P	Snyder Hill	Pima	38
200	15N-2E-NE part	M D	Hairpin Turn	Yavapai	90
201	18S-19E-27 34	M D C	Middle Canyon	Cochise	126 30 45
202	20S-14E-29	P Pn M	Montosa Canyon	Santa Cruz	4 127
203	20S-22E-22 SE4	Pn M D C	Ajax Hill	Cochise	45 68
204	20S-22E-26 35	P Pn	Colina Ridge	Cochise	45 127 114
205	14S-21E-16 SW4 & 14S-21E-15 SE4	Pn	Johnny Lyon Hills	Cochise	114
206	20S-29E-25 & 20S-30E-31	P Pn	Limestone Mountain	Cochise	114
207	7S-18E-7 SE4	D C	Holy Joe Peak	Pinal	102 64
208	32N-8W-18?	Pn	Mile 187	Mohave	15
209	33N-7W-31	P Pn	Toroweap Valley	Mohave	15 111
210	33N-4W-15	P Pn	Supai	Coconino	15
211	36N-14W-2	P Pn	Nutter Twists	Mohave	15
212	6S-17E-7 8	M D C	Whitakker Ranch North	Pinal	65
213	26N-9W-4 5	Pn	Hualapai Indian Res NW	Coconino	15
214	1N-14E-19 SW4	D	Castle Dome	Gila	102
215	1N-14E-1 SE4	D	Sleeping Beauty	Pinal	102

TABLE 1. Index to Localities and Sources

Map No.	Location	Stratigraphic Interval	Name of Section	County	Source Reference Number
216	1N-15E-10 SE4	D	Pinal Creek	Gila	102 123
217	1N-15E-13 NW4	D	Globe Hills	Gila	102
218	2N-15E-19 SE4	D	Apache Trail	Gila	102
219	1N-17E-35 SW4	D	Job Corps Camp	Gila	102
220	1S-11E-13 SW4	D	Roblos Canyon	Pinal	102
221	2S-13E-32	D	Arnell Creek	Pinal	102
222	2S-16E-10 SW4	D	Ranch Creek	Gila	102
223	3S-13E-13 SW4	D	Ray	Pinal	102
224	3S-15E-10	D	Highway 77	Gila	102
225	4S-14E-12 SE4	D	Steamboat Mountain	Pinal	102
226	5S-14E-19 SW4	D	Jim Thomas Wash	Pinal	102
227	7S-16E-8 NW4	D	Putnam Wash	Pinal	102
228	6S-16E-1 2	D	Kelly Camp	Pinal	102
229	4S-19E-21 SE4	D	Copper Reef Mountain	Graham	102
230	4S-30E-5	D	San Francisco River	Graham	102
231	3S-18E-17 NW4	D	Coolidge Dam	Gila	102 130
232	2S-22E-20 SW4	M-C	Calva	Graham	102
233	2S-26E-19 20 29 30	D	Point of Pines	Graham	102
234	3S-29E-16 W2	D	Highway 666	Greenlee	102
235	20S-29E-22	P Pn	Pedregosa Mountains	Cochise	34 61
236	11N-7E-28	D	Limestone Hills	Gila	123
237	12N-5E-5 8	D	Chasm Creek	Yavapai	123
238	13N-5E-31	D	Squaw Peak Mine	Yavapai	123
239	16N-2E-14	D-PC	Hopewell	Yavapai	123
240	17N-3E-7 SE4	D	Sycamore Creek	Yavapai	123 12
241	9N-15½E-15	D	Iron King Mine	Navajo	123
242	4N-19E-18	D	Mormon Tank	Gila	123
243	2N-17E-8 SE4	D	Seven Mile Creek	Gila	123
244	11½N-9E-14	D	Upper Sycamore Canyon	Gila	123
245	6N-14E 33 34	D	Aztec Peak	Gila	123
246	17N-6E-8 17	P Pn	Oak Creek Canyon	Yavapai	56 127
247	6N & 7N - 19E & 20E	P Pn	Carrizo Creek	Gila	56
248	37N-5W-23 to 37N-4W-36	P Pn	Hacks Canyon	Mohave	111
249	40N-10W-3?	P Pn	Black Rock Canyon	Mohave	111
250	41N-9W-9 NW4	P	Rock Canyon Head	Mohave	111
251	41N-9W-7 NW4	P	Rock Canyon Mouth	Mohave	111
252	40N-12W	P	Wolf Hole	Mohave	111

TABLE 1. Index to Localities and Sources

Map No.	Location	Stratigraphic Interval	Name of Section	County	Source Reference Number
253	38N-14W?-24?	P	Black Rock Spring	Mohave	111
254	41N-14W-21	P	Virgin River Narrows	Mohave	111 15
255	31N-6E-29	P	Cedar Mountain	Coconino	95
256	17N-2E-4 9	D	Verde River Canyon	Yavapai	67 12
257	39N-3E-5 NE4	P	Burro Canyon	Coconino	129
258	38N-3E-3 N2	P	House Rock Canyon	Coconino	129
259	3N-17W-9	P-PC	Six Price Mine	Yuma	92
260	4N-12W-7 & 4N-13W-12	D	L Harquahala Mountains, NE	Yuma	51
261	4N-13W-27 S2	P Pn	Harquahala Mine	Yuma	127
262	5S-16E-22 SE4	Pn	Roach Wash Gap	Pinal	127 65
263	18S-17E-7	P Pn	Empire Mountains	Pima	127 42
264	2S-29E-32 SE4	Pn	Sardine Saddle	Greenlee	127
265	3S-18E-10 15	Pn	San Carlos Reservoir	Pinal	127
266	20S-27E-12	Pn	Swisshelm Mine	Cochise	127
267	6N-20E & 21E?	Pn	Carrizo Tributary	Gila	127
268	20S-27E-15	C	Swisshelm Lodge	Cochise	45
269	4 $\frac{1}{2}$ N-21E?-27	Pn	White River	Gila	126 56 57
270	41N-22E?	P	Comb Ridge	Apache	98
271	5N-8W?	P	Canyon de Chelly	Apache	98
272	3N-9W?	P	Nazlini Canyon	Apache	98
273	27N-30E-13 14	P	Bonito Canyon	Apache	98
274	25N-30E?	P	Hunters Point	Apache	98
275	24N-30E?	P	Oak Spring Cliff	Apache	98
276	23N-30E?-8?	P	Black Creek Canyon	Apache	98
277	23N-29E-14?	P	Pine Springs	Apache	98
278	1N-13E	Pn M D C	Haunted Canyon	Apache	101
279	26N-11W	D	Peach Springs	Mohave	12
280	19N-5W-8	D	West Chino Valley	Yavapai	12
281	15N-1E-1	D	Coyote Canyon	Yavapai	12
282	17N-1W-3 4	D	Verde Monocline	Yavapai	12
283	17N-1E-4	D	Verde River	Yavapai	12
284	32N-5E-10 14	D	Temple Butte	Coconino	12
285	33N-16W SE part	D	North Grand Wash	Mohave	83
286	22N-6W	D	Seligman	Yavapai	12
287	23N-11W-19 30	C	Lion Mountain	Mohave	132
288	23N-11W-33	D	Lion Mountain South	Mohave	132
289	23N-11W-15	C	Lion Mountain A	Mohave	132

TABLE 1. Index to Localities and Sources

Map No.	Location	Stratigraphic Interval	Name of Section	County	Source Reference Number
290	23N-11W-2 NE4	C	Rock Canyon Mouth	Mohave	132
291	39N-7E-16 21	P	Badger Canyon	Coconino	80
292	40N-7E & 8E?	P	Lees Ferry	Coconino	72
293	12N-9E-31 SW4	P Pn	Pine	Gila	114
294	11N-13E-19 20 30	Pn	Christopher Creek	Gila	114
295	34° 3'N 110° 41'W	Pn	Oak Creek Road	Gila	114
296	5N-15E-12 & 5N-16E-7	Pn	Winkleman	Gila	114
297	5S-16E-25 36	Pn	Eskiminzin Wash	Pinal	114
298	18S-26E-23 SW4	P Pn	Predham Creek	Cochise	114
299	19S-26E-12 13	P Pn	Squaretop Hills	Cochise	114
300	24S-31E-3 SW4	P	McDonald Ranch	Cochise	114
301	2S-22E S part?	Pn	Five Mile Wash, Gila Mountains	Graham	114
302	9S-2E-34 S2 NE4	Pn	Vekol Mine	Pinal	127 114
303	10N-15E S2	D	Canyon Creek	Navajo	24
304	5N-21E-34 Center	P	Kelly Butte	Gila	121
305	33N-7E SW part	P Pn	Salt Trail	Coconino	58
306	7N-20E-8?	P	Corduroy Creek	Navajo	43
307	32N-5E-25?	C	Lava Canyon	Coconino	81 83
308	33N-6W-19?	C	Gateway Canyon	Coconino	81 83
309	28N-12W-35	C	Bridge Canyon	Mohave	81 83
310	30N-10W-24	C	Granite Park	Coconino	81 83
311	27N-10W-17 NE4	C	Peach Springs Wash	Mohave	81 83
312	28N-13W-28	C	Meriwitica Springs	Mohave	81 83
313	29N-16W-22	C	Diamond Bar Ranch	Mohave	81 83
314	7N-19E-20 SE4	P	Cibecue Ridge	Gila	131 56

TABLE 2. SELECTED REFERENCES

---

SELECTED PALEOZOIC STRATIGRAPHIC SECTIONS

IN

ARIZONA

TABLE 2. Selected References

1. Akers, J. P., Geology and ground water in the central part of Apache County, Arizona: USGS Water-Supply Paper 1771 (1962)
2. Alexis, C. O., The geology of the northern part of the Huachuca Mountains, Arizona: Univ. Ariz., PhD Thesis, 74 p., maps (1949)
3. Anderson, Charles A., and Creasey, S. C., Geology and ore deposits of the Jerome area, Yavapai County, Arizona: USGS Prof. Paper 308, 185 p., illus., maps (1958)
4. Anthony, John W., Geology of the Montosa-Cottonwood Canyon area, Santa Cruz County, Arizona: Univ. Ariz., MS Thesis, 84 p., maps (1951)
5. Arizona Geological Society, Guidebook for field trip excursions in Southern Arizona, Cordilleran Section, Geological Society of America, April 10-14, 1952, Tucson, Arizona: 150 p., illus., road logs, maps (1952)
6. \_\_\_\_\_, Guidebook II for field trip excursions in Southern Arizona, Cordilleran Section, Geological Society of America, April 2-6, 1959, Tucson, Arizona: 290 p., illus., road logs, maps (1959)
7. \_\_\_\_\_, Guidebook III for field trip excursions in Southern Arizona, Cordilleran Section, Geological Society of America, April 11-13, 1968, Tucson, Arizona: 354 p., illus., road logs, maps (1968)
8. Armstrong, A. K., Stratigraphy and paleontology of the Mississippian System in southwestern New Mexico and southeastern Arizona: N. Mex. Bur. Mines and Miner. Res. Memoir 8, 99 p. (1962)
9. Baars, D. L., Permian blanket sandstone of the Colorado Plateau: in Geometry of Sandstone Bodies, AAPG, p. 179-207 (1961)
10. \_\_\_\_\_, Permian System of Colorado Plateau: AAPG Bull., v. 46, no. 2, p. 149-218 (1962)
11. Baker, A. A., and Reeside, J. B., Jr., Correlation of the Permian of southern Utah, northern Arizona, northwestern New Mexico, and southwestern Colorado: AAPG Bull., v. 13, p. 1413-1448 (1929)
12. Beus, Stanley S., Devonian stratigraphy in northwestern Arizona: Four Corners Geol. Soc. Guidebook, p. 127-133 (1969)
13. Bissell, H. J., Permian and lower Triassic transition from the Shelf to Basin: Four Corners Geol. Soc. Guidebook 5th Field Conference, p. 135-169 (1969)
14. Brennan, D. J., Geological reconnaissance of Cienega Valley, Pima County, Arizona: Univ. Ariz., PhD Thesis, 53 p. (1957)
15. Brill, K. G., Jr., Permo-Pennsylvanian stratigraphy of western Colorado Plateau and eastern Great Basin regions: Geol. Soc. Am. Bull., v. 74, no. 3, p. 307-330 (1963)
16. Britt, T. L., Geology of the Twin Peaks area, Pima County, Arizona: Univ. Ariz., MS Thesis, 58 p. (1955)
17. Bromfield, C. S., and Shride, A. F., Mineral resources of the San Carlos Indian Reservation, Arizona: USGS Bull. 1027-N, p. 613-691, illus., maps (1956)
18. Bryant, D. L., The geology of the Mustang Mountains, Santa Cruz County, Arizona: Univ. Ariz., MS Thesis, 142 p., maps (1951)



TABLE 2. Selected References

19. Bryant, D. L., and Lance, J. R., Paleozoic and Cretaceous stratigraphy of the Tucson Mountains: Ariz. Geol. Soc., Guidebook Southern Ariz., p. 27-42, illus. map (1952)
20. Bryant, D. L., Stratigraphy of the Permian System in southern Arizona: Univ. Ariz., PhD Thesis, 209 p. (1955)
21. \_\_\_\_\_, Marker zones in Permian formations of southern Arizona: Ariz. Geol. Soc., Guidebook II Southern Ariz., p. 38-42 (1959)
22. Bryant, D. L., and McClymonds, N. E., Permian Concha limestone and Rainvalley formation, southeastern Arizona: AAPG Bull., v. 45, no. 8, p. 1324-1333 (1961)
23. Bryner, L., Geology of the South Comobabi Mountains and Ko Vaya Hills, Pima County, Arizona: Univ. Ariz., PhD Thesis, 156 p. (1959)
24. Burchard, E. F., Iron ore in Canyon Creek, Fort Apache Indian Reservation, Arizona: USGS Bull. 821, p. 51-75 (1931)
25. Butler, Wm., Permian sedimentary environments in southeastern Arizona: Ariz. Geol. Soc., v. 9, p. 71-94 (1971)
26. Carpenter, Robert H., The geology and ore deposits of the Vekol Mountains, Pinal County, Arizona: Stanford Univ., PhD Thesis, 110 p., illus. (1947)
27. Cederstrom, D. J., Geology of the central Dragoon Mountains, Arizona: Univ. Ariz., PhD Thesis, 93 p., maps (1946)
28. Cooley, M. E., Akers, J. P., and Stevens, P. R., Geohydrologic data in the Navajo and Hopi Indian Reservations, Arizona, New Mexico, and Utah: in Pt. 3, Selected lithologic logs, drillers' logs, and stratigraphic sections, Ariz. State Land Dept. Water Res. Rep. 12-C, 157 p. (1964)
29. Cooper, J. R., and Silver, L. T., Geology and ore deposits of the Dragoon Quadrangle, Cochise County, Arizona: USGS Prof. Paper 416 (1964)
30. Creasey, S. C., Geologic map of the Benson quadrangle, Cochise and Pima Counties, Arizona: USGS Misc. Geol. Inv. Map I-470 (1967)
31. Darton, N. H., A resume of Arizona geology: Univ. Ariz., Ariz. Bur. Mines Bull. 119, 298 p., maps (1925)
32. \_\_\_\_\_, The Permian of Arizona and New Mexico: AAPG Bull., v. 10, p. 819-852 (1926)
33. Denney, Philip P., Geology of the southeast end of the Paleozoic portion of the Canelo Hills, Santa Cruz County, Arizona: Univ. Ariz., unpub. MS Thesis (1968)
34. Epis, R. C., Geology of the Pedregosa Mountains, Cochise County, Arizona, Univ. of Calif., PhD Thesis (1956)
35. Epis, R. C., and Gilbert, C. M., and Langenheim, R. L., Jr., Upper Devonian Swisshelm formation of southeastern Arizona: AAPG Bull., v. 41, no. 10, p. 2243-2256, illus. (1957)
36. Epis, R. C., Early Paleozoic strata in southeastern Arizona: AAPG Bull., v. 41, no. 10, p. 2223-2242, illus. (1957); addendum: v. 42, no. 11, p. 2750-2756, illus., map (1958)

TABLE 2. Selected References

37. Feth, J. H., The geology of the northern Canelo Hills, Santa Cruz County, Arizona: Univ. Ariz., PhD Thesis, 150 p., map (1947)
38. \_\_\_\_\_, Permian stratigraphy and structure, northern Canelo Hills, Arizona: AAPG Bull., v. 32, p. 82-108 (1948)
39. Feth, J. H., and Hem, J. D., Reconnaissance of Headwater Springs in the Gila River drainage basin, Arizona: USGS Water-Supply Paper 1619-H, 54 p. (1963)
40. Foster, R. W., and others, Gallup to Globe via Zuni, St. Johns, Show Low and Salt River Canyon (Road log): N. Mex. Geol. Soc., Guidebook 13th Field Conf., p. 10-26 (1962)
41. Foster, Roy W., Stratigraphy and petroleum possibilities of Catron County, New Mexico: New Mex. Bur. Mines Bull. 85 (1964)
42. Galbraith, F. W., The Empire Mountains, Pima County, Arizona: Ariz. Geol. Soc., Guidebook II Southern Ariz., p. 127-133 (1959)
43. Gerrard, T. A., Environment studies of the Fort Apache member, Supai formation (Permian), east-central Arizona: Univ. Ariz., PhD Thesis, 187 p. (1946); AAPG Bull., v. 50, no. 11, p. 2434-2463 (1966)
44. Gillerman, E., Geology of the central Peloncillo Mountains, Hidalgo County, New Mexico, and Cochise County, Arizona: N. Mex. Bur. Mines Miner. Res. Bull. 57, 152 p., illus., map (1958)
45. Gilluly, James, General geology of central Cochise County, Arizona: USGS Prof. Paper 281, 169 p., illus., maps (1956)
46. Gilluly, James, Cooper, J. R., and Williams, J. S., Late Paleozoic stratigraphy of central Cochise County, Arizona: USGS Prof. Paper 266, 49 p., illus. (1954)
47. Gregory, H. E., The Navajo country: a geographic and hydrographic reconnaissance of parts of Arizona, New Mexico, and Utah: USGS Water-Supply Paper 380, 219 p., maps (1916); (abst.): Wash. Acad. Sci. Jour., v. 7, p. 132 (1917)
48. Gregory, H. E., and Moore, R. C., The Kaiparowits region, a geographic and geological reconnaissance of parts of Utah and Arizona: USGS Prof. Paper 164, 161 p., maps (1931)
49. Gutschick, R. C., The Redwall limestone (Mississippian) of Yavapai County, Arizona: Plateau, v. 16, no. 1, p. 1-11, illus., map (1943)
50. Hammer, D. F., Geology and ore deposits of the Jackrabbit area, Pinal County, Arizona: Univ. Ariz., MS Thesis, 156 p. (1961)
51. Hayes, Phillip T., Letter, June 15, 1971
52. \_\_\_\_\_, Stratigraphic nomenclature of Cambrian and Lower Ordovician rocks of easternmost southern Arizona and adjacent westernmost New Mexico: USGS Bull. 1372-B (1972)
53. Hayes, P. T., and Landes, E. R., Paleozoic stratigraphy of the southern part of the Mule Mountains, Arizona: USGS Bull. 1201-F (1965)

TABLE 2. Selected References

54. Heindl, L. A., and McClymonds, N. E., Younger Precambrian formations and the Bolsa (?) quartzite of Cambrian age, Papago Indian Reservation, Arizona: USGS Prof. Paper 501-C, p. 43-49 (1964)
55. Hogue, William G., Geology of the northern part of the Slate Mountains, Pinal County, Arizona: Univ. Ariz., unpub. MS Thesis (1940)
56. Huddle, J. W., and Dobrovoly, E., Late Paleozoic stratigraphy and oil and gas possibilities of central and northeastern Arizona: USGS Oil and Gas Invest. Prelim. Chart 10 (1945); revised: (1952)
57. \_\_\_\_\_, Devonian and Mississippian rocks in central Arizona: USGS Prof. Paper 233-D, 112 p., map (1952); (abst.): Geol. Soc. Am. Bull., v. 57, p. 1205-1206 (1946)
58. Irwin, J. H., Stevens, P. R., and Cooley, M. E., Geology of the Paleozoic rocks, Navajo and Hopi Indian Reservations, Arizona, New Mexico and Utah: USGS Prof. Paper 521-C (1971)
59. Jones, S. M., and Bacheller, W. D., Measured sections near Dos Cabezas, Arizona: N. Mex. Geol. Soc., Guidebook 4th Field Conf., p. 149, illus. (1953)
60. Jones, W. R., The geology of the Sycamore Ridge area, Pima County, Arizona: Univ. Ariz., MS Thesis, 89 p., maps (1941)
61. Kottowski, F. E., Summary of Pennsylvanian sections in southwestern New Mexico and southeastern Arizona: N. Mex. Bur. Mines Miner. Res. Bull. 66, 163 p., illus., maps (1960)
62. \_\_\_\_\_, Pennsylvanian rocks of southwestern New Mexico and southeastern Arizona: AAPG Spec. Pub. Pennsylvanian System in the United States, p. 331-371 (1962)
63. Kottowski, F. E., and Havenor, K. C., Pennsylvanian rocks of the Mogollon Rim area, Arizona: N. Mex. Geol. Soc., Guidebook 13th Field Conf., p. 77-84 (1962)
64. Krieger, Medora H., Troy quartzite (Younger Precambrian) and Bolsa and Abrigo formations (Cambrian), northern Galiuro Mountains, southeastern Arizona: USGS Prof. Paper 424-C, p. 160-164 (1961)
65. \_\_\_\_\_, Geologic map of Saddle Mountain quadrangle (1968)
66. Lee, W. T., Geologic reconnaissance of a part of western Arizona: USGS Bull. 352, p. 9-80, map (1908)
67. Lehner, R. E., Geology of the Clarkdale quadrangle, Arizona: USGS Bull. 1021-N, p. 511-592, illus., map (1958)
68. LeMone, D. V., The Devonian stratigraphy of Cochise, Pima, and Santa Cruz Counties, Arizona, and Hidalgo County, New Mexico: Univ. Ariz., MS Thesis, 108 p. (1959)
69. Lessentine, Ross H., Kaiparowits and Black Mesa Basins: Stratigraphic Synthesis: AAPG Bull., v. 49, p. 1997-2019, 20 figs. (1965)
70. Lindgren, W., The copper deposits of the Clifton-Morenci district, Arizona: USGS Prof. Paper 43, 375 p., maps (1905)
71. \_\_\_\_\_, Ore deposits of the Jerome and Bradshaw Mountains quadrangles, Arizona: USGS Bull. 782, 192 p., maps (1926)

TABLE 2. Selected References

72. Longwell, C. R., and Miser, H. D., Moore, R. C., Bryan, K., and Paige, S., Rock formations in the Colorado Plateau of southeastern Utah and northern Arizona: USGS Prof. Paper 132, p. 1-23 (1923)
73. Longwell, C. R., Geology of the Muddy Mountains, Nevada, with a section through the Virgin Range to the Grand Wash Cliffs, Arizona: USGS Bull. 798, 152 p., maps (1928)
74. Loring, W. F., Geology and ore deposits of the Mountain Queen area, northern Swisshelm Mountains, Arizona: Univ. Ariz., MS Thesis, 65 p., maps (1947)
75. Luepke, Gretchen, A re-examination of the type section of the Scherrer formation (Permian) in Cochise County, Arizona: Ariz. Geol. Soc. Dig., v. 9, p. 245-257 (1971)
76. McClymonds, Neal E., Stratigraphy and structure of the southern portion of the Waterman Mountains, Pima County, Arizona: Univ. Ariz., MS Thesis, 157 p. (1957)
77. \_\_\_\_\_, Paleozoic stratigraphy of the Waterman Mountains, Pima County, Arizona: Ariz. Geol. Soc., Guidebook II Southern Ariz., p. 67-76 (1959)
78. \_\_\_\_\_, Precambrian and Paleozoic sedimentary rocks on the Papago Indian Reservation, Arizona: Ariz. Geol. Soc., Guidebook II Southern Ariz., p. 77-84 (1959)
79. McKee, E. D., The Coconino sandstone--its history and origin: Carnegie Inst. Wash. Pub. 440, p. 77-115, map (1934)
80. \_\_\_\_\_, The environment and history of the Toroweap and Kaibab formations of northern Arizona and southern Utah: Carnegie Inst. Wash. Pub. 492, 268 p., maps (1938)
81. \_\_\_\_\_, Cambrian history of the Grand Canyon region: Carnegie Inst. Wash. Pub. 563, 168 p. (1945)
82. \_\_\_\_\_, Paleozoic seaways in western Arizona: AAPG Bull., v. 31, no. 2, p. 282-292 (1947)
83. \_\_\_\_\_, Sedimentary basins of Arizona and adjoining areas: Geol. Soc. Am. Bull., v. 62, p. 481-506, maps (1951)
84. \_\_\_\_\_, Uppermost Paleozoic strata of northwestern Arizona and southwestern Utah: Utah Geol. Soc., Guidebook no. 7, p. 52-55 (1952)
85. \_\_\_\_\_, Lithologic subdivisions of the Redwall limestone in northern Arizona--their paleogeographic and economic significance: USGS Prof. Paper 400-B, p. 243-245 (1960)
86. \_\_\_\_\_, Nomenclature for lithologic subdivisions of the Mississippian Redwall limestone, Arizona: USGS Prof. Paper 475-C, p. 21-22 (1963)
87. McKee, Edwin D., and Gutschick, Raymond C., History of the Redwall limestone of northern Arizona: Geol. Soc. Am. Memoir 114 (1969)
88. McKee, Edwin D., Paleozoic rocks of Grand Canyon: Four Corners Geol. Soc. Guidebook, p. 78-90 (1969)
89. McKenna, John J., Buehman Canyon Paleozoic section, Pima County, Arizona: Univ. Ariz. unpub. MS Thesis (1965)
90. McNair, A. H., Paleozoic stratigraphy of part of northern Arizona: AAPG Bull., v. 35, no. 3, p. 532, maps (1951)

TABLE 2. Selected References

91. Maxson, J. H., Geologic map of the Bright Angel quadrangle, Grand Canyon National Park, Arizona (text on back): Grand Canyon Nat. Hist. Assoc., Grand Canyon, Arizona (1961)
92. Miller, Fred K., Geologic map of the Quartzite quadrangle: USGS Map GQ-841 (1970) with text
93. Nations, Jack D., Evidence for a Morrowan Age for the Black Prince limestone of southeastern Arizona: Jour. Paleo., v. 37, p. 1252-1264 (1963)
94. Noble, L. F., The Shinumo quadrangle, Grand Canyon district, Arizona: USGS Bull. 549, 100 p., maps (1914)
95. \_\_\_\_\_, A section of the Paleozoic formations of the Grand Canyon at the Bass Trail: USGS Prof. Paper 131, p. 23-73 (1922)
96. Norby, R. D., Conodont biostratigraphy of the Mississippian rocks of southeastern Arizona: Ariz. State Univ. unpub. MS Thesis (1971)
97. Parker, J. Wm., and Roberts, J. W., Regional Devonian and Mississippian stratigraphy, central Colorado Plateau: AAPG Bull., v. 50, no. 11, p. 2404-2433 (1966)
98. Peirce, H. W., Stratigraphy of the DeChelly sandstone of Arizona and Utah: Univ. Ariz., PhD Thesis, 206 p. (1962)
99. Peirce, H. W., and Gerrard, T. A., Evaporite deposits of the Permian Holbrook Basin, Arizona: 2nd Symposium on Salt, Ohio Geol. Soc., p. 1-10 (1966)
100. Peirce, H. W., and Peirce, F. L., Paleozoic stratigraphy across central Arizona, private report, 1955
101. Peterson, D. W., Geology of the Haunted Canyon quadrangle, Arizona: USGS Map GQ-128 (1960)
102. Pine, Gordon L., Devonian stratigraphy and paleogeography in Gila, Graham, Greenlee and Pinal Counties, Arizona: Univ. Ariz. unpub. PhD Thesis (1968)
103. Ransome, F. L., Geology of the Globe copper district, Arizona: USGS Prof. Paper 12, 168 p. maps (1903)
104. \_\_\_\_\_, The geology and ore deposits of the Bisbee quadrangle, Arizona: USGS Prof. Paper 21, 168 p., maps (1904)
105. \_\_\_\_\_, The Paleozoic section of the Ray quadrangle, Arizona: Wash. Acad. Sci. Jour., v. 5, p. 380-388 (1915)
106. \_\_\_\_\_, Some Paleozoic sections in Arizona and their correlation: USGS Prof. Paper 98, p. 133-166 (1916)
107. Rea, David K., and Bryant, Donald L., Permian red chert-pebble conglomerate in Earp formation, southeastern Arizona: AAPG Bull., v. 52, p. 809-815 (1968)
108. Read, C. B., Stratigraphy of the outcropping Permian rocks around the San Juan Basin: N. Mex. Geol. Soc., Guidebook of the San Juan Basin, p. 80-84, illus. (1951)
109. Read, C. B., and Wanek, A. A., Stratigraphy of outcropping Permian rocks in parts of northeastern Arizona and adjacent areas: USGS Prof. Paper 374-H, p. 1-10 (1961)

TABLE 2. Selected References

110. Read, C. B., and Wanek, A. A., Correlation of Permian rocks in northeastern Arizona and adjoining parts of New Mexico and Utah: USGS Prof. Paper 424-C, p. 156-159 (1961)
111. Reeside, J. B., Jr., and Bassler, H., Stratigraphic sections in southwestern Utah and northwestern Arizona: USGS Prof. Paper 129, p. 53-77 (1922)
112. Reid, Alastair M., Biostratigraphy of Naco (Pennsylvanian) in south-central Arizona: Univ. Ariz. unpub. PhD Thesis (1968)
113. Reid, Robert R., Some Devonian sections in southeastern Arizona and their correlation: Univ. Ariz., MS Thesis, 54 p. (1928)
114. Ross, Charles A., Pennsylvanian and early Permian depositional history, southeastern Arizona: AAPG Bull., v. 57, p. 887-912 (1973)
115. Sabins, F. F., Jr., Stratigraphic relations in Chiricahua and Dos Cabezas Mountains, Arizona: AAPG Bull., v. 41, no. 3, p. 466-510, illus., map (1957)
116. \_\_\_\_\_, Geology of the Cochise Head and western part of the Vanar quadrangles, Arizona: Geol. Soc. Am. Bull., v. 68, no. 10, p. 1315-1341, illus., map (1957)
117. Schenk, E. T., and Wheeler, H. E., Cambrian sequence in western Grand Canyon, Arizona: Jour. Geol., v. 50, no. 7, p. 882-899, map (1942)
118. Sell, James D., Sections in Sand Tank Mountains: Personal Comm. July 20, 1972
119. Shride, Andrew F., Younger Precambrian geology in southern Arizona: USGS Prof. Paper 566 (1967)
120. Stauffer, C. R., Devonian of the Santa Rita Mountains, Arizona: Geol. Soc. Am. Bull., v. 39, p. 429-433 (1928)
121. Stoyanow, A. A., Correlation of Arizona Paleozoic formations: Geol. Soc. Am. Bull., v. 47, p. 459-540 (1936); (discussion): p. 1994-1998 (1937)
122. \_\_\_\_\_, Paleozoic paleogeography of Arizona: Geol. Soc. Am. Bull., v. 53, no. 9, p. 1255-1282, paleogeog. maps (1942)
123. Teichert, Curt, Devonian rocks and paleogeography of central Arizona: USGS Prof. Paper 464, 181 p., illus., maps (1965)
124. Thomssen, R. W., and Barber, G. A., A partial section of Escabrosa limestone in the Galiuro Mountains, Pinal County, Arizona: Ariz. Geol. Soc. Dig., v. 1, p. 12-14 (1958)
125. Twenter, F. R., Geology and promising areas for ground-water development in the Hualapai Indian Reservation, Arizona: USGS Water-Supply Paper 1576-A, 38 p. (1962)
126. Tyrell, W. W., Jr., Geology of the Whetstone Mountains area, Cochise and Pima Counties, Arizona: Yale Univ., PhD Thesis (1957)
127. Wanless, Harold R., Unpublished measured sections of Pennsylvanian rocks in Arizona (1949)

TABLE 2. Selected References

128. Wanless, Harold R., Pennsylvanian rocks of Arizona and bordering areas (abst.): Geol. Soc. Am. Bull., v. 66, no. 12, p. 1631 (1955)
129. Wells, J. D., Stratigraphy and structure of the House Rock Valley area, Coconino County, Arizona: USGS Bull. 1081-D, 40 p. (1960)
130. Willden, Ronald, Geology of the Christmas quadrangle, Gila and Pinal Counties, Arizona: USGS Bull. 1161-E (1964)
131. Winters, S. S., Supai formation (Permian) of eastern Arizona: GSA Memoir 89 (1963)
132. Wood, William H., The Cambrian and Devonian carbonate rocks at Yampai Cliffs, Mohave County, Arizona: Univ. Ariz., unpub. PhD Thesis, 228 p. (1956)
133. Wright, Jerome J., Petrology of the Devonian rocks in eastern Pima and Cochise Counties, Arizona: Univ. Ariz., unpub. PhD Thesis (1964)
134. Wrucke, C. T., Paleozoic and Cenozoic rocks in the Alpine-Nutrioso area, Apache County, Arizona: USGS Bull. 1121-H, 26 p. (1961)





APPENDEX 1

SELECTED PALEOZOIC STRATIGRAPHIC SECTIONS IN ARIZONA

---

TABLE 3. INDEX TO LOCALITIES AND SOURCES

---

TABLE 4. SOURCE REFERENCES

TABLE 3. Index to Localities and Sources

Map No.	Location	Stratigraphic Interval	Name of Section	County	Source Reference Number
<u>315</u>	33N-6W-1	C	Tuckup Canyon 1	Mohave	1a
<u>316</u>	34N-6W-22 26	P-D	Tuckup Canyon 2	Mohave	1a
<u>317</u>	34N-6W-32 33	P	Tuckup Canyon 3	Mohave	1a
<u>318</u>	16N-3W-11 SE NE	C		Yavapai	2a
<u>319</u>	17N-2W-13 NW	C		Yavapai	2a
<u>320</u>	18N-6W-17 NW SW	C		Yavapai	2a
<u>321</u>	19N-3W-22 SE SE	C		Yavapai	2a
<u>322</u>	20N-3W-26 SW NE	C		Yavapai	2a
<u>323</u>	21N-4W-32 NE	C		Yavapai	2a

TABLE 4. Source References

- 1a. Billingsley, G. H., Jr., General geology of Tuckup Canyon, Central Grand Canyon, Mohave County, Arizona: Northern Arizona Univ., MS Thesis, 115 p. (1970)
- 2a. Hereford, Richmond, Cambrian-Devonian stratigraphy and Cambrian petrology in northern Yavapai County, Arizona: Northern Arizona Univ., MS Thesis, 137 p. (1971)