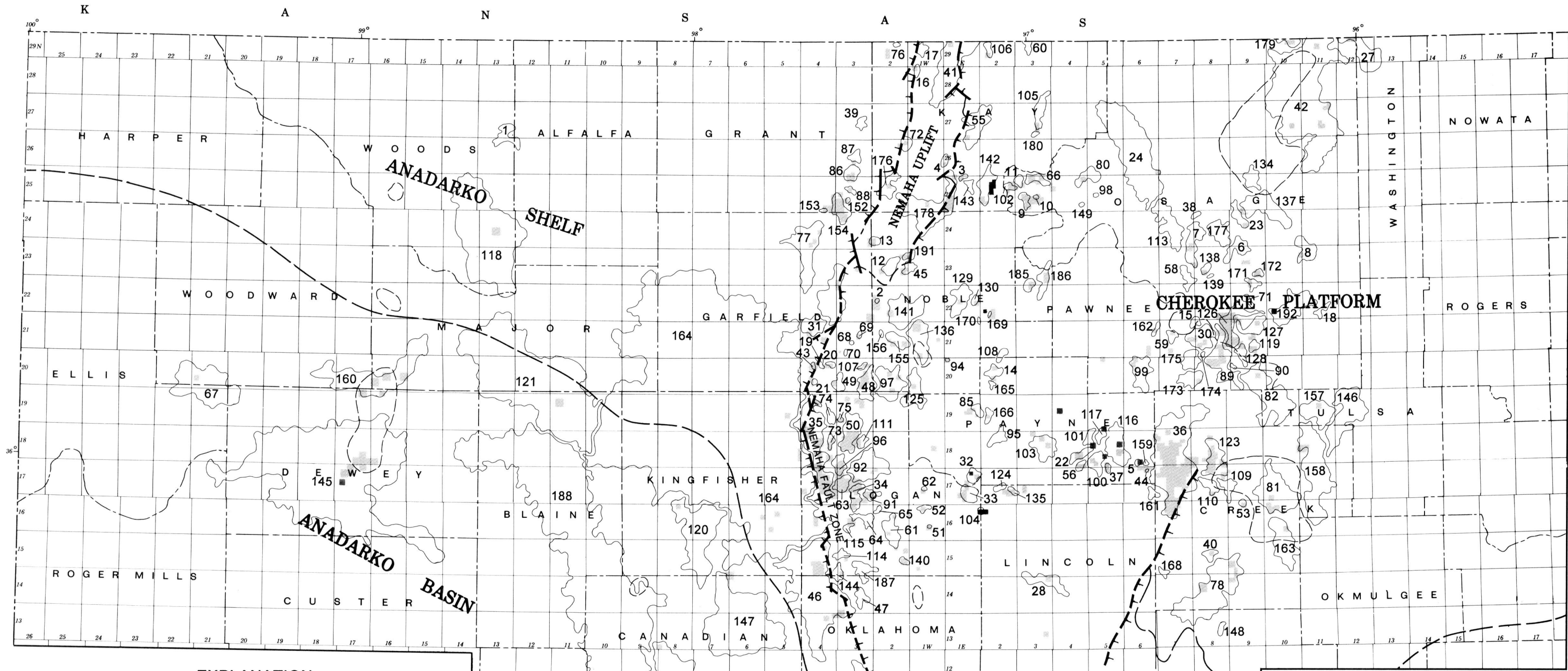
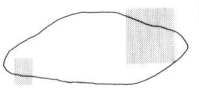


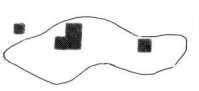


EXPLANATION

Based on NRIS lease production-file data,
1-1979 through 12-1994, and on NRIS well-
file data through 12-1994.



Generalized areas of oil production from
Layton sand, as identified by operators.
Actual production may be from Osage-
Layton sand locally.



Generalized areas of oil production from
Osage-Layton sand, as identified by operators.

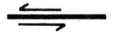


Other fields with oil production from
Layton sand and/or Osage-Layton sand
reservoirs. Based on NRIS well-file data
(Plate 5). Pre-1979 oil production is lo-
cally substantial.



Areas prone to production of natural gas
from Layton and/or Osage-Layton sands.
Natural gas is co-produced with oil in
most of the area.

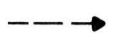
Structural boundaries



Major faults, exposed at, or interpreted to
occur at the surface. Overthrust faults
identified with solid barbs on hanging
wall block. Normal faults identified by
hachures on relatively downthrow block.
Arrows indicate relative horizontal
movement



Major subsurface faults. Overthrust
faults identified with open barbs on
hanging wall block



Plunge of subsurface structure

Stratigraphic/Structural boundaries



Surface contact between rock units. May
be approximated or locally generalized



Buried contact, structural contour, or
structural trend



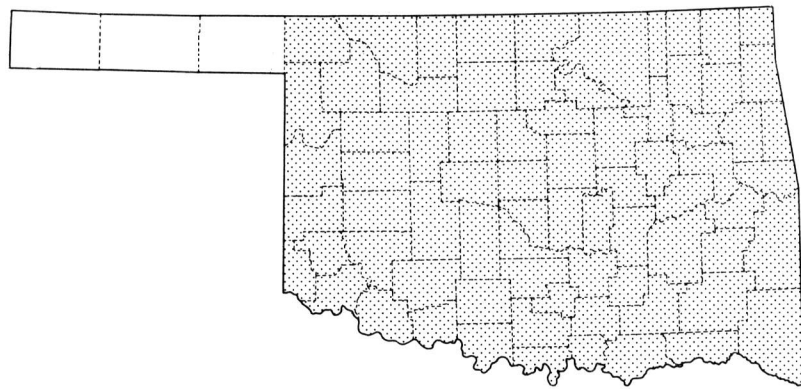
Change in rate of thickening of strata or
generalized structural trend

Basement outcrop and subcrop



Pre-Pennsylvanian strata missing

INDEX MAP OF OKLAHOMA SHOWING MAPPED AREA



Map no.	Field name	T - R	Location Section
21	Brown, SW	20N-4W	28
22	Broyles	18N-4E	25
23	Bulldog District, N	18N-5E	20
24	Burbank	24N-9E	5,6
25	Byars, NE	25N-9E	30,31
26	Byars, SW	25-26N-6E	
27	Caney	27N-5-6E	
28	Chandler	5N-3E	4
29	Chisum, S	6N-3E	33
30	Cleveland	5N-2E	
31	Covington, W	28N-12-13E	
32	Coyle*	29N-12-13E	
33	Coyle, S	14N-3-4E	
34	Crescent, E	17N-1E	12,13
35	Crescent-Lovell	17N-1E	34,35
36	Cushing	16N-3W	9,23
37	Cushing Townsite	17N-3W	33,34
38	Dalton	22N-4W	33
39	Deer Creek	22N-4W	12,13
40	Depey, SE	17N-1E	34,35
41	Dilworth District	16N-3W	9,23
42	Domes-Pond Creek	17N-3W	33,34
43	Douglas, SE	16-19N-4W	
44	Drumright, W	19N-5W	
45	Echo, E	16-19N-7E	
46	Edmond, W	19N-8E	
47	Edmond Townsite	17N-5E	3
48	Elk Horn, NE	18N-5E	34
49	Elk Horn, NW	24N-8E	6,7
50	Elk Horn, S	27N-3W	
51	Fair Oak	15N-8E	15
52	Fair Oak, N	27N-1W	
53	Fortyfour	28N-1E-1W	
54	Garber	29N-1E-1W	
55	Garrett, NW	29N-1E-1W	
56	Georgia	26N-10-11E	
		27N-10-12E	
		28N-10-11E	
		29N-10-12E	
		20N-4W	16
		17N-6E	3
		23N-1W	19
		23N-2W	24
		12-13N-4W	
		14N-3-5W	
		15N-4-5W	
		14N-3W	15,22
		19N-3W	1
		20N-3W	26
		20N-3W	30,31
		18-19N-3W	
		16N-1W	22
		16N-1W	5
		16N-9E	4
		21N-4E	
		22N-3-4W	
		23N-3-4W	
		26N-1E	
		27N-1-2E	
		18N-4E	36

Map no.	Field name	T - R	Location Section
57	Golden Trend	1N-1-2W	
		2N-1-3W	
		3N-2-4W	
		4N-2-5W	
		5N-2-5W	
58	Gilliland	22N-7E	
		23N-7E	
59	Greenup	21N-7E	21
60	Grey Noret	29N-3E	
61	Guthrie Lake, E	15-16N-2W	
62	Guthrie, NE	17N-1W	21
63	Guthrie, NW	17N-3W	18
		17N-4W	24
64	Guthrie, W	16N-3W	13
65	Guthrie Townsite	16N-2W	6
66	Hardy*	25N-3E	3,4
67	Harmon, E	19N-20-22W	
		20N-21-22W	
68	Hayward	21N-3W	21
69	Hayward, N	21N-3W	15
70	Hayward, SW	21N-3W	32
71	Hominy, E	22N-9E	
72	Hubbard	26N-1-2W	21
73	Hull	18N-4W	11
74	Hull, N	19N-4W	24
75	Hull, NE	19N-3W	30
76	Hunnswell, E	20N-2W	14
77	Hunter, S	22-23N-4W	
		24N-4-5W	
78	Iron Post	13N-7-8E	
		14N-7-9E	
		15N-8-9E	
79	Katie, SE	1N-1W	9
80	Kaw South	25N-4-5E	
		26N-5E	
81	Kellyville District, W	16N-9-10E	
		17N-9-11E	
		18N-10E	
		19N-9-10E	
		20N-9-10E	
83	Klondike, N	3N-1W	12
84	Konawa-Dora	6N-5-6E	
		7N-6E	
85	Lake Blackwell, E	19N-1-2E	
86	Lamont, E	25-26N-3W	
87	Lamont, NE	26N-3W	21
88	Lamont, SE	25N-3W	15
89	Lauderdale	20N-8-9E	
		21N-8E	
90	Lauderdale, SE	17N-2W	7,18
91	Lawrie, W	17N-2W	30
		17N-3W	25
92	Lawrie, W	17N-2-3W	
		18N-2-3W	
93	Little River	7N-4-7E	
		8N-6E	
94	Lone Elm, NW	20N-1E	6
95	Lost Creek	18N-2E	9,10
		19N-2E	34
96	Lovell, SE	17N-3W	5
		18N-3-4W	
97	Lucien	19-20N-2W	
98	Lucy Creek	25N-5E	20
99	Maramac	20N-6E	
100	March*	17N-5E	5
		18N-5E	13
101	March, N**	18N-4E	
		18N-5E	6
		19N-5E	31
102	McCord, SW	25N-2E	12
		25N-3E	18
103	Mehan	18N-3-4E	
104	Merrick, N**	16N-1-2E	
105	Mervin	27-28N-3E	
106	Middleton, N	29N-2E	
107	Mitchell	20N-3W	10
108	Morrison, SW	23N-9E	3,4
		21N-2E	34,35
109	Mosquito Creek	17N-8E	25,36
		17N-9E	
110	Mosquito Creek, W	17N-8E	22
111	Mulhall, W	18N-3W	11
112	Mustang, N	10N-4-5W	
		11N-4-6W	
113	Naval Reserve	23N-7E	3
		24N-7E	17,18
		25N-7E	30,31
114	Navina	15N-3W	19
		15N-4W	24
115	Navina, NE	16N-3W	21
116	Norfolk*	18N-5-6E	
		19N-5E	
117	Norfolk, W**	18N-5E	5
		19N-5E	33
118	Oakdale	22N-13W	
		23N-13-14W	
		24N-12-14W	
		25N-13-14W	
119	Ohio-Osage	21N-9E	26
120	Okarche, N	14N-7W	
		15N-7-8W	
		16N-7-8W	
		17N-8W	
		18N-10-11W	
		19N-10-12W	
		20N-11-13W	
		21N-12-14W	
		10N-2W	
		11N-2-4W	
		12N-3W	
		17-18N-8E	
123	Olive	17N-2E	21,22
124	Olivet	17N-2E	
125	Orlando	19-20N-1-2W	
126	Osage City	21N-8-9E	
		22N-9E	
127	Osage City District, E	21-22N-9E	
128	Osage City District, SE	20-21N-9E	
129	Otoe City	22N-1E	22
130	Otoe City, E	22N-1E	13
131	Pauls Valley	4N-1E-1W	
132	Pauls Valley, E	3N-1-2E	
133	Pauls Valley, W	4N-1W	28,29

Map no.	Field name	T - R	Location Section
134	Pawhuska	25N-9E	14,15
		26N-9E	34,35
135	Perkins, S	17N-2E	24
136	Perry District	20-21N-1W	
		21N-2W	
137	Pershing	24N-9-10E	
		25N-9-10E	
138	Pettit	23N-8E	20
139	Pettit, SE	23N-8E	28
140	Pleasant Valley,	SE15N-2W	24
141	Polo	21N-2W	
		22N-2-2W	
142	Ponca City*	25N-1-2E	
		26N-2E	
143	Ponca City, SW	25N-1E	12,13
144	Prairie Bell, NW	14N-3W	6
		14N-4W	1
		15N-4-4W	
145	Putnam*	15N-15W	
		16N-15-19W	
		17N-16-21W	
		18N-16-20W	
		19N-16-18W	
		18N-11E	1,2
		18N-12E	5,6
		19N-11E	13,25
		19N-12E	22,23
147	Richland	12N-6-7W	
		13N-5-7W	
		14N-6-7W	
148	Rosenwald	13N-8E	13,14
149	Ross Day, NE	25N-4E	25
150	Rover	6N-3E	27
151	Rover, N	6N-3E	9
152	Salt Fork, E	25N-3W	29
153	Salt Fork, S	25N-4W	25
154	Salt Fork, SE	24-25N, 3-4W	
155	Sams	21N-2W	15
156	Sams, W	21N-2W	8
157	Sand Springs District	19N-11E	3
158	Sapulpa District	16-17N-11E	22
		18N-10-11E	
		19N-11E	
		19N-11E	
159	Schlegel, SE	19N-6E	34
160	Seiling, NE	19N-6-17W	
		20N-15-18W	
		21N-15W	
161	Shamrock District, W	17N-6E	23,26
		17N-7E	30,31
162	Skedee, SE	21N-6E	1
163	Slick	15-16N-10E	
164	Sooner Trend	15N-4-7W	
		16N-4-7W	
		17N-4-9W	
		18N-4-10W	
		19N-4-10W	
		20N-5-10	
		21N-5-10W	
		22N-6-9W	
		23N-7-9W	
165	Stillwater Airport	20N-2E	28,29
166	Stillwater, W	19N-2E	
167	St. Louis	7N-4E	20
		7N-5E	
		8N-4E	
		14N-7E	5
		15N-7E	30,31
168	Stroud, E	22N-2E	32
169	Sumner District, N	21N-1E	1
170	Sumner, NW	22N-1E	36
		22N-9E	2,3
171	Sunset	23N-9E	33,34
		23N-9E	
172	Sunset, NE	20N-7E	26
173	Terlton	20N-7E	23
		20N-8E	19
174	Terlton, NE	20N-8E	5
		21N-8E	31,32
175	Terlton, N	20N-7E	10,11
		20N-8E	6,7
		21N-7E	35,36
		21N-8E	30,31
		25N-2W	
176	Thomas	26N-2W	
		24N-8E	
177	Tidal Osage	24N-9E	21,22
		24N-1-2W	30,31
178	Tonkawa	25N-1E-2W	
		29N-10E	
179	Turkey Creek	10N-7-8W	13,14
180	Uncas, W	11N-7-9W	34
181	Union City	12N-8-9W	
		13N-8-9W	
182	Verden	5N-8W	
		6N-8-9W	
		7N-8-10W	
		8N-9W	
183	Wanette	5N-3E	6
		6N-3E	31
184	Wanette, S	5N-2E	13
185	Watchorn	22N-3E	4
		22N-3E	
186	Watchorn, E	23N-3E	32
		22N-3E	10
187	Waterloo, N	23N-3E	35
		14N-3W	2,11
		15N-3W	25,26
188	Watonga-Chickasha Trend	6-9N, 6-10W	
		10-14N, 8-11W	
		15-19N, 10-12W	
189	Wheatland	11N-4W	28
190	Whitehead, S	3N-1W	22
191	Whitlock, SE	23N-1W	6
		23N-2W	12
192	Wildhorse*	21N-10E	
		22N-10-11E	
193	Willow-Garvin	3N-2E	2