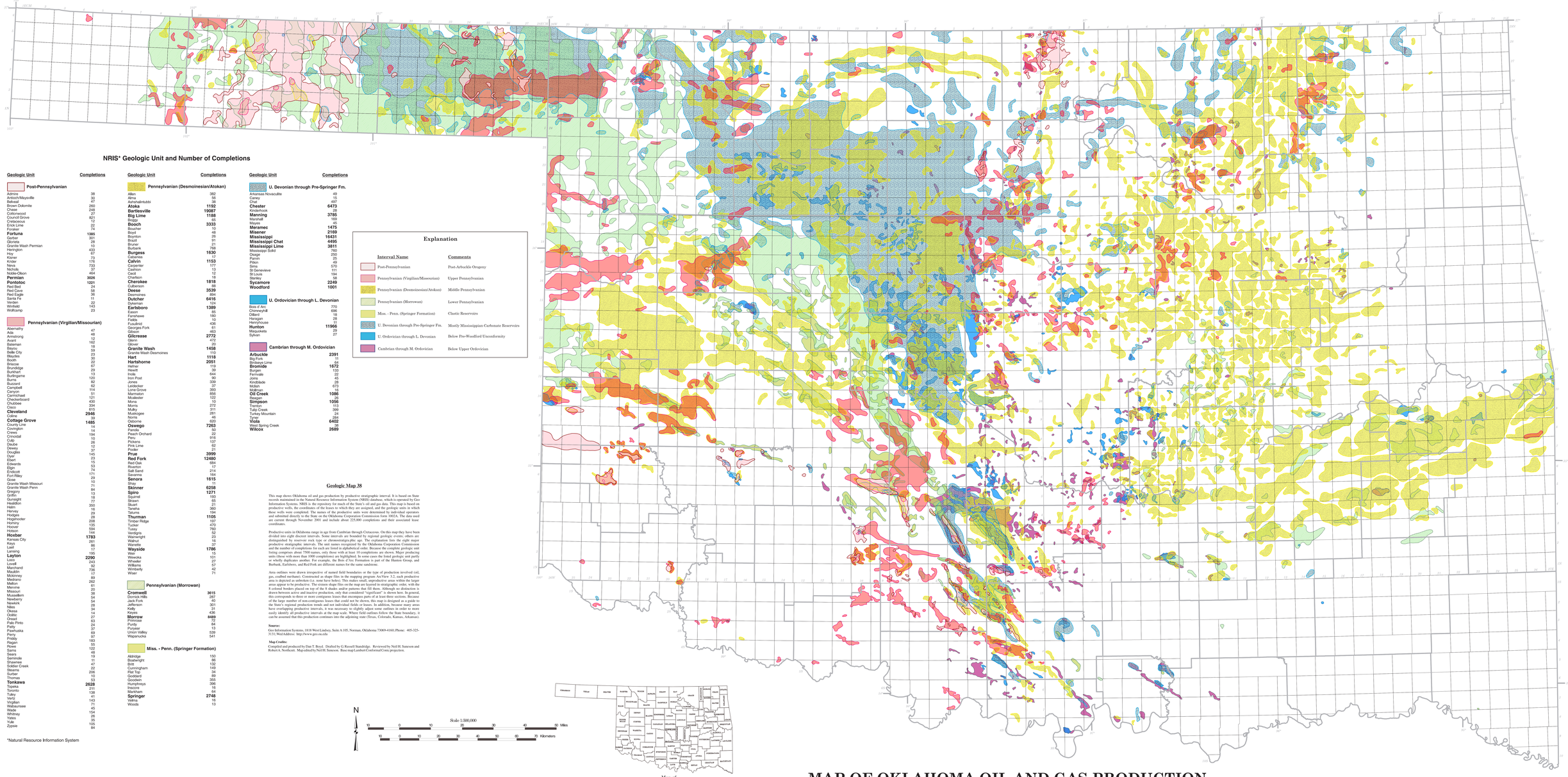
OKLAHOMA GEOLOGICAL SURVEY
Charles J. Mankin, Director

MAP GM-38
Oklahoma Oil and Gas Production
By Reservoir Age



NRIS* Geologic Unit and Number of Completions

Geologic Unit	Completions
Post-Pennsylvanian	
Admire	38
Antioch/Maysville	30
Bellvail	47
Brown Dolomite	260
Chase	248
Cottonwood	27
Council Grove	821
Crouse Limestone	12
Enola Lime	32
Foraker	74
Fortuna	**1385**
Garber	301
Glorieta	28
Granite Wash Permian	10
Herington	433
Hoy	67
Kianer	73
Kinder	176
Nolan	1177
Nichols	37
Noble-Olson	464
Permian	**3026**
Pontotoc	**1221**
Red Bed	24
Red Cave	58
Red Eagle	36
Santa Fe	11
Verden	22
Winfield	143
Wolfcamp	23
Pennsylvanian (Virgilian/Missourian)	
Abernathy	47
Ada	48
Armstrong	12
Avant	162
Bateman	7
Bayou	59
Belle City	23
Blaydes	30
Bluejacket	22
Boone	67
Brundidge	29
Burlingame	13
Burns	120
Buzzard	62
Campbell	114
Canyon	51
Carmichael	121
Checkerboard	430
Chubbee	334
Cisco	1946
Cleveland	**2945**
Coline	95
Cottage Grove	**1485**
County Line	5
Covington	14
Crews	194
Crossroad	10
Cubs	26
Daube	12
Dewey	37
Douglas	51
Dyer	23
Ebert	15
Edwards	53
Elgin	74
Fayett	171
Fort Riley	29
Gose	10
Granite Wash Missouri	21
Granite Wash Penn	31
Gregory	13
Griffin	18
Hartnight	77
Hamilton	350
Helm	16
Hervey	29
Hodges	39
Hogshooter	208
Hominy	135
Hoover	594
Hotson	144
Hoxbar	**1783**
Kansas City	261
Lake	86
Lasl	17
Lansing	199
Layton	**2290**
Loco	41
Lovell	62
Marchand	736
Mauldin	17
Mckinney	89
Mcpherson	262
Melton	61
Mervine	20
Missouri	38
Musselfem	36
Newberry	54
Newkirk	28
Niles	34
Oakley	14
Oolitic	27
Oread	63
Palo Pinto	53
Patty	27
Pawhuska	69
Perry	97
Priddy	183
Prueitt	55
Rowe	122
Sams	48
Sears	19
Seminole	54
Shawnee	47
Soldier Creek	22
Stearns	206
Tarrant	10
Thomas	53
Tonkawa	**2628**
Topeka	211
Toronto	138
Tuley	47
Vertz	143
Virgilian	71
Wabaunsee	45
Wade	154
Wapanucka	26
Velma	35
Yule	105
Zypsie	84

*Natural Resource Information System

Geologic Unit	Completions
Pennsylvanian (Desmoinesian/Atokan)	
Allen	382
Alma	56
Ashshalintubbi	38
Atoka	**1192**
Bartlesville	**19087**
Big Lime	**1188**
Briggs	93
Booch	**3333**
Boucher	10
Boyd	48
Boynton	26
Brazil	91
Bruner	23
Burbank	1215
Burgess	**1630**
Calvanna	7
Calvin	**1153**
Carpenter	12
Cashion	73
Cecil	12
Charlson	18
Cherokee	**1818**
Culbertson	88
Deese	**3539**
Desmoines	894
Dutcher	**6416**
Dykeman	124
Earlsboro	**1389**
Eason	85
Fanshawe	180
Fitts	1
Frisbybird	436
Georges Fork	61
Gibson	463
Gilcrease	**2772**
Glenn	472
Glover	39
Granite Wash	**1458**
Granite Wash Desmoines	110
Hart	**1118**
Hartshorne	**2051**
Hefner	119
Hewitt	39
Inola	644
Iron Post	190
Jefferson	39
Leidecker	37
Lone Grove	393
Mannaton	856
Mcalester	122
Morris	15
Morris	272
Mulky	31
Muskogee	281
Norris	46
Osborne	620
Oswego	**7263**
Pandis	50
Peach Orchard	22
Perry	916
Pickens	137
Pink Lime	91
Porter	31
Prue	**3999**
Red Fork	**12480**
Red Oak	1107
Riverton	53
Salt Sand	214
Savanna	164
Senora	**1615**
Shay	11
Skinner	**6258**
Spiro	**1271**
Squirrel	193
Strawn	65
Stuart	21
Tahalha	1393
Thurman	350
Thurman	**1105**
Timber Ridge	197
Turkett	470
Tussy	760
Verdigris	52
Wainwright	23
Walnut	16
Wanette	37
Wayside	**1786**
Weir	15
Wewoka	101
Wilcox	537
Williams	57
Wimberly	42
Wirer	71
Pennsylvanian (Morrowan)	
Cromwell	**3615**
Domick Hills	287
Jack Fork	40
Jefferson	301
Kelly	31
Keyes	436
Morrow	**8489**
Primrose	72
Purdy	15
Puryear	13
Union Valley	539
Wapanucka	541
Miss. - Penn. (Springer Formation)	
Aldridge	150
Boatwright	17
Britt	132
Cunningham	149
Flat Top	34
Goddard	89
Goodwin	355
Humphreys	396
Ireton	54
Morrison	58
Springer	**2748**
Velma	16
Woods	13

Geologic Unit	Completions
U. Devonian through Pre-Springer Fm.	
Arkansas Novaculite	49
Caney	15
Chat	497
Chester	**6473**
Kinderhook	28
Manning	**3785**
Marshall	169
Mayes	45
Meramec	**1475**
Misener	**2169**
Mississippi	**16431**
Mississippi Chat	**4495**
Mississippi Lime	**3811**
Mississippi Solid	760
Osage	250
Parvin	25
Pitkin	49
Sallisaw	510
Ste Genevieve	111
St Louis	194
Stanley	58
Sycamore	**2249**
Woodford	**1001**
U. Ordovician through L. Devonian	
Bois d' Arc	770
Chattanooga	1016
Dillard	18
Haragan	28
Henryhouse	11
Hunton	**11966**
Maquoketa	29
Sylvan	27
Cambrian through M. Ordovician	
Arbuckle	**2391**
Big Fork	11
Birdseye Lime	64
Bromide	**1672**
Burgen	133
Fernvale	22
Joins	45
Kindblade	58
Mcbin	673
Mollhan	16
Oil Creek	**1086**
Reagan	26
Simpson	**1056**
Trenton	113
Tulip Creek	24
Viola Mountain	29
Tyner	284
Viola	**6402**
West Spring Creek	36
Wilcox	**2689**

Explanation

Interval Name	Comments
Post-Pennsylvanian	Post-Arbuckle Orogeny
Pennsylvanian (Virgilian/Missourian)	Upper Pennsylvanian
Pennsylvanian (Desmoinesian/Atokan)	Middle Pennsylvanian
Pennsylvanian (Morrowan)	Lower Pennsylvanian
Miss. - Penn. (Springer Formation)	Clastic Reservoirs
U. Devonian through Pre-Springer Fm.	Mostly Mississippian Carbonate Reservoirs
U. Ordovician through L. Devonian	Below Pre-Woodford Unconformity
Cambrian through M. Ordovician	Below Upper Ordovician

Geologic Map 38

This map shows Oklahoma oil and gas production by productive stratigraphic interval. It is based on State records maintained in the Natural Resource Information System (NRIS) database, which is operated by Geo Information Systems. NRIS is the repository for much of the State's oil and gas data. This map is based on completions that were recorded in NRIS as of November 2001. Each completion is a point on the map that shows wells were completed. The names of the productive units were determined by individual operators and submitted directly to the State on the Oklahoma Corporation Commission form 1002A. The data used are current through November 2001 and include about 225,000 completions and their associated lease coordinates.

Productive units in Oklahoma range in age from Cambrian through Cretaceous. On this map they have been divided into eight discreet intervals. Some intervals are bounded by regional, geologic events; others are distinguished by reservoir rock type or chronostratigra-phic age. The explanation lists the eight major productive stratigraphic intervals. The unit names recognized by the Oklahoma Corporation Commission and the number of completions for each are listed in alphabetical order. Because the complete geologic unit name is required by NRIS, formation, group, and local field names are combined. Only the most productive units (those with more than 1000 completions) are highlighted. In some cases the listed geologic unit partly or wholly duplicates another. For example, the Bois d'Arc Formation is part of the Hunton Group, and Burbank, Earlsboro, and Red Fork are different names for the same sandstone.

Area outlines were drawn irrespective of named field boundaries or the type of production involved (oil, gas, coalbed methane). Constructed as shape files in the mapping program ArcView 3.2, each productive area is depicted as unbroken (i.e. none have holes). This makes small, unproductive areas within the larger areas appear to be productive. The sixteen shape files on the map are layered in stratigraphic order, with the youngest on top and the oldest on the bottom. Because of this layering, only the most productive areas are drawn between active and inactive production, only that considered "significant" is shown here. In general, this corresponds to three or more contiguous leases that encompass parts of at least three sections. Because of the large number of non-contiguous leases that could not be shown, this map is designed as a guide to the State's regional production trends and not individual fields or leases. In addition, because many areas have overlapping productive intervals, it was necessary to slightly adjust some outlines in order to more easily identify all productive intervals at the map scale. Where field outlines follow the State boundary, it can be assumed that this production continues into the adjoining state (Texas, Colorado, Kansas, Arkansas).

Source:
Geo Information Systems, 1818 West Lindsey, Suite A 105, Norman, Oklahoma 73069-4160; Phone: 405-325-3131; Web Address: http://www.geo.ou.edu

Map Credits:
Compiled and produced by Dan T. Boyd. Drafted by G Russell Standridge. Reviewed by Neil H. Suneson and Robert A. Northcutt. Map edited by Neil H. Suneson. Base map Lambert Conformal Conic projection.

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Scale 1:500,000

10 0 10 20 30 40 50 Miles

10 0 10 20 30 40 50 60 70 Kilometers



Map of
Oklahoma Counties

MAP OF OKLAHOMA OIL AND GAS PRODUCTION

BY RESERVOIR AGE

By Dan T. Boyd

2002