

Table 9. Estimate of in-place natural gas resources in the Devonian Siltstone and Shale and Marcellus Shale Assessment Units.

Data from: Kuuskraa and Wicks, 1984; Lewin and Associates, 1983

STATE	COUNTY	FIPS	Geological Setting*	Partitioned Areas*	Target GIP (Tcf/sqmi)	Target GIP (Bcf/sqmi)	Square miles / County	GIP/County (Bcf)	Approximate % County in DSS AU	DSS GIP (Bcf)	Approximate % County in Marcellus AU	Marcellus GIP (Bcf)	Well Spacing (acres)	Range - Cum Recovery / well for 40 years MMcf/Well	Radial Stimulation Recovery for 40 Years MMcf/well (r _w = 30')
Ohio	Jefferson	39081		III	0.0015	1.53	410	629	0.5	314	0	0	80 - 160	127-266	172
Ohio	Harrison	39067		III	0.0015	1.53	400	613	0.3	184	0	0	80 - 160	127-266	172
Ohio	Guernsey	39059		III	0.0015	1.53	522	801	0.95	761	0	0	80 - 160	127-266	172
Ohio	Belmont	39013		III	0.0015	1.53	537	824	0.98	807	0	0	80 - 160	127-266	172
Ohio	Noble	39121		III	0.0015	1.53	399	612	0.5	306	0	0	80 - 160	127-266	172
Ohio	Monroe	39115		III	0.0015	1.53	457	701	1	701	0	0	80 - 160	127-266	172
Ohio	Washington	39167		III	0.0015	1.53	423	649	0.65	422	0	0	80 - 160	127-266	172
West Virginia	Boone	54005	I	II	0.0074	7.41	503	771	0.6	463	0	0	80	446 - 703	554
West Virginia	Logan	54045	I	II	0.0074	7.41	456	3,380	0.4	1,352	0	0	80	446 - 703	554
West Virginia	Mingo	54059	I	II	0.0074	7.41	424	3,143	0.2	629	0	0	80	446 - 703	554
West Virginia	Fayette	54019	I	III	0.0047	4.66	667	4,944	0.85	4,203	0.15	742	80	235 - 460	352
West Virginia	Wyoming	54109	I	III	0.0047	4.66	502	2,340	1	2,340	0	0	80	235 - 460	352
West Virginia	Raleigh	54081	I	III	0.0047	4.66	608	2,835	1	2,835	0	0	80	235 - 460	352
West Virginia	McDowell	54047	I	III	0.0047	4.66	535	2,494	1	2,494	0	0	80	235 - 460	352
West Virginia	Jackson	54035	I	IV	0.0035	3.53	464	2,163	0.15	324	0	0	80	314 - 366	345
West Virginia	Wirt	54105	I	V	0.0052	5.22	235	830	0.95	788	0	0	80	216 - 397	287
West Virginia	Calhoun	54013	I	V	0.0052	5.22	280	1,462	1	1,462	0	0	80	216 - 397	287
West Virginia	Roane	54087	I	V	0.0052	5.22	484	2,527	1	2,527	0	0	80	216 - 397	287
West Virginia	Kanawha	54039	I	V	0.0052	5.22	901	4,704	0.8	3,763	0	0	80	216 - 397	287
West Virginia	Tyler	54095	I	VI	0.0040	3.96	258	1,347	1	1,347	0	0	80	218 - 355	281
West Virginia	Pleasants	54073	I	VI	0.0040	3.96	131	519	1	519	0	0	80	218 - 355	281
West Virginia	Wood	54107	I	VI	0.0040	3.96	367	1,453	0.6	872	0	0	80	218 - 355	281
West Virginia	Ritchie	54085	I	VI	0.0040	3.96	454	1,798	1	1,798	0	0	80	218 - 355	281
West Virginia	Hancock	54029	II		0.0099	9.87	84	333	0.5	166	0	0	80	227 - 524	313
West Virginia	Brooke	54009	II		0.0099	9.87	90	888	1	888	0	0	80	227 - 524	313
West Virginia	Ohio	54069	II		0.0099	9.87	106	1,046	1	1,046	0	0	80	227 - 524	313
West Virginia	Marshall	54051	II		0.0099	9.87	305	3,011	1	3,011	0	0	80	227 - 524	313
West Virginia	Wetzel	54103	II		0.0099	9.87	359	3,544	1	3,544	0	0	80	227 - 524	313
West Virginia	Monongalia	54061	II		0.0099	9.87	363	3,583	0.05	179	0.95	3,404	80	227 - 524	313
West Virginia	Marion	54049	II		0.0099	9.87	312	3,080	0.1	308	0.90	2,772	80	227 - 524	313
West Virginia	Preston	54077	II		0.0099	9.87	651	6,426	0	0	1.00	6,426	80	227 - 524	313
West Virginia	Harrison	54033	II		0.0099	9.87	417	4,116	0.05	206	0.95	3,910	80	227 - 524	313
West Virginia	Taylor	54091	II		0.0099	9.87	174	1,717	0	0	1.00	1,717	80	227 - 524	313
West Virginia	Doddridge	54017	II		0.0099	9.87	321	3,168	0.95	3,010	0.05	158	80	227 - 524	313
West Virginia	Barbour	54001	II		0.0099	9.87	343	3,386	0	0	1.00	3,386	80	227 - 524	313
West Virginia	Tucker	54093	II		0.0099	9.87	421	4,156	0	0	1.00	4,156	80	227 - 524	313
West Virginia	Gilmer	54021	II		0.0099	9.87	340	3,356	0.9	3,020	0.01	34	80	227 - 524	313
West Virginia	Lewis	54041	II		0.0099	9.87	389	3,840	0.05	192	0.95	3,648	80	227 - 524	313
West Virginia	Upshur	54097	II		0.0099	9.87	355	3,504	0	0	1.00	3,504	80	227 - 524	313
West Virginia	Webster	54101	II		0.0099	9.87	556	5,488	0	0	1.00	5,488	80	227 - 524	313
West Virginia	Randolph	54083	II		0.0099	9.87	1040	10,265	0	0	1.00	10,265	80	227 - 524	313
West Virginia	Clay	54015	II		0.0099	9.87	346	3,415	0.95	3,244	1.00	3,415	80	227 - 524	313
West Virginia	Nicholas	54067	II		0.0099	9.87	650	6,416	0.6	3,850	0.40	2,566	80	227 - 524	313
West Virginia	Braxton	54007	II		0.0099	9.87	513	5,064	0.6	3,038	0.40	2,025	80	227 - 524	313
West Virginia	Morgan	54065	III		0.0064	6.44	230	2,270	0	0	1.00	2,270	160		
West Virginia	Berkeley	54003	III		0.0064	6.44	321	2,069	0	0	1.00	2,069	160		
West Virginia	Jefferson	54037	III		0.0064	6.44	209	1,347	0	0	1.00	1,347	160		
West Virginia	Mineral	54057	III		0.0064	6.44	329	2,120	0	0	1.00	2,120	160		
West Virginia	Hampshire	54027	III		0.0064	6.44	644	4,150	0	0	1.00	4,150	160		
West Virginia	Grant	54023	III		0.0064	6.44	480	3,093	0	0	1.00	3,093	160		
West Virginia	Hardy	54031	III		0.0064	6.44	585	3,770	0	0	1.00	3,770	160		
West Virginia	Pendleton	54071	III		0.0064	6.44	698	4,498	0	0	1.00	4,498	160		
West Virginia	Pocahontas	54075	III		0.0064	6.44	942	6,071	0	0	1.00	6,071	160		
West Virginia	Greenbrier	54025	III		0.0064	6.44	1025	6,606	0	0	1.00	6,606	160		
West Virginia	Summers	54089	III		0.0064	6.44	353	2,275	0	0	1.00	2,275	160		
West Virginia	Monroe	54063	III		0.0064	6.44	473	3,048	0	0	1.00	3,048	160		
West Virginia	Mercer	54055	III		0.0064	6.44	420	2,707	0	0	1.00	2,707	160		
TOTALS										56,914		101,640			
										57 TCF*		101 TCF*			

*Value does not include all of AU (no data from Pennsylvania and New York).