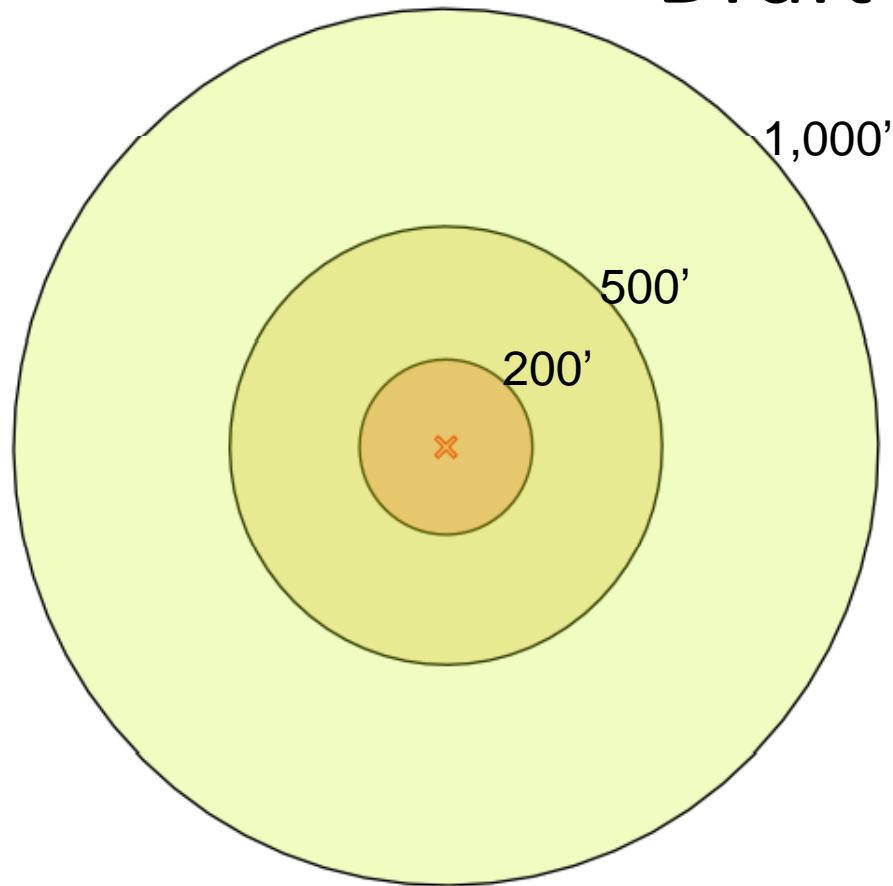


Analysis of Well Setbacks in Draft Rules



Size of the Circle			
	200'	500'	1,000'
sq feet	125,660	785,375	3,141,500
acres	3	18	72

Area of Each Zone			
	200'	500'	1,000'
sq feet	125,660	659,715	2,356,125
acres	3	15	54



Setback Evaluation Tables

All Locations and Wells Approved Since April 1, 2009 and December 6, 2012
 Colorado Oil and Gas Conservation Commission
 December 7, 2012

Size of the Circle										
	150	200	350	500	600	700	1000	1200	1320	2000
sq feet	70,684	125,660	384,834	785,375	1,130,940	1,539,335	3,141,500	4,523,760	5,473,750	12,566,000
acres	2	3	9	18	26	35	72	104	126	288

Area of Each Zone					
	200	350	500	700	1000
sq feet	125,660	259,174	400,541	753,960	1,602,165
acres	3	6	9	17	37

Area of Each Zone			
	200	500	1000
sq feet	125,660	659,715	2,356,125
acres	3	15	54

COGCC Rule 603.b. High density criteria used to represent urban setting.

Well locations reviewed and approved in each zone.

Urban vs Rural	0 - 200	200- 350	350 - 500	500 - 700	700 - 1000	1000 - 1320	>1320	All	
Amended High Density Location	0.00%	5	0.09%	5	0.09%	3	0.05%	0	18
New High Density Location	0.00%	7	0.13%	12	0.22%	3	0.05%	0	25
Amended Location	10	62	1.12%	102	1.85%	225	4.07%	183	1,714
New Location	16	86	1.56%	168	3.04%	218	3.95%	284	3,767
Total	26	160	2.90%	287	5.20%	417	7.55%	515	5,524

Well locations reviewed and approved in each zone.

Urban Vs Rural	0 - 200	200 - 350	350 - 1000	Greater than 1000	All	
Amended High Density Location	0.00%	5	0.09%	13	0.24%	18
New High Density Location	0.00%	7	0.13%	18	0.33%	25
Amended Location	10	62	1.12%	518	9.38%	1,714
New Location	16	86	1.56%	670	12.13%	3,767
Total	26	160	2.90%	1,219	22.07%	5,524

Well locations reviewed and approved in each zone.

Urban vs Rural	0 - 200	200 - 500	500 - 1000	Greater than 1000	All	
Amended High Density Location	0.00%	10	0.18%	8	0.14%	18
New High Density Location	0.00%	19	0.34%	6	0.11%	25
Amended Location	10	164	2.97%	416	7.53%	1,714
New Location	16	254	4.60%	502	9.09%	3,767
Total	26	447	8.09%	932	16.87%	5,524

Percentage represents the percentage of all the well locations.

Setback Evaluation Tables

All Locations and Wells Approved Since April 1, 2009 and December 6, 2012

Colorado Oil and Gas Conservation Commission

December 7, 2012

Size of the Circle										
	150	200	350	500	600	700	1000	1200	1320	2000
sq feet	70,684	125,660	384,834	785,375	1,130,940	1,539,335	3,141,500	4,523,760	5,473,750	12,566,000
acres	2	3	9	18	26	35	72	104	126	288

Area of Each Zone					
	200	350	500	700	1000
sq feet	125,660	259,174	400,541	753,960	1,602,165
acres	3	6	9	17	37

Area of Each Zone			
	200	500	1000
sq feet	125,660	659,715	2,356,125
acres	3	15	54

Well permits reviewed and approved in each zone.

Urban vs Rural	0 - 200	200 - 350	350 - 500	500 - 700	700 - 1000	1000 - 1320	>1320	All						
Amended High Density Location	0.00%	22	0.17%	18	0.14%	13	0.10%	4	0.03%	0.00%	57			
New High Density Location	0.00%	43	0.34%	67	0.52%	27	0.21%	13	0.10%	0.00%	150			
Amended Location	18	0.14%	123	0.96%	179	1.39%	505	3.94%	560	4.36%	536	4.18%	3,007	4,928
New Location	52	0.41%	254	1.98%	412	3.21%	581	4.53%	779	6.07%	586	4.57%	5,033	7,697
Total	70	0.55%	442	3.44%	676	5.27%	1,126	8.77%	1,356	10.57%	1,122	8.74%	8,040	12,832

Well permits reviewed and approved in each zone.

Urban Vs Rural	0 - 200	200 - 350	350 - 1000	Greater than 1000	All				
Amended High Density Location	0.00%	22	0.17%	35	0.27%	57			
New High Density Location	0.00%	43	0.34%	107	0.83%	150			
Amended Location	18	0.14%	123	0.96%	1,244	9.69%	3,543	27.61%	4,928
New Location	52	0.41%	254	1.98%	1,772	13.81%	5,619	43.79%	7,697
Total	70	0.55%	442	3.44%	3,158	24.61%	9,162	71.40%	12,832

Percentage represents the percentage of the all drilling permits on the well locations review and approved.

Well permits reviewed and approved in each zone.

Urban vs Rural	0 - 200	200 - 500	500 - 1000	Greater than 1000	All				
Amended High Density Location	0.00%	40	0.31%	17	0.13%	57			
New High Density Location	0.00%	110	0.86%	40	0.31%	150			
Amended Location	18	0.14%	302	2.35%	1,065	8.30%	3,543	27.61%	4,928
New Location	52	0.41%	666	5.19%	1,360	10.60%	5,619	43.79%	7,697
Total	70	0.55%	1,118	8.71%	2,482	19.34%	9,162	71.40%	12,832

Percentage represents the percentage of the all drilling permits on the well locations review and approved.

Setback Evaluation Tables

All Locations and Wells Approved Since April 1, 2009 and December 6, 2012
 Colorado Oil and Gas Conservation Commission
 December 7, 2012

Size of the Circle										
	150	200	350	500	600	700	1000	1200	1320	2000
sq feet	70,684	125,660	384,834	785,375	1,130,940	1,539,335	3,141,500	4,523,760	5,473,750	12,566,000
acres	2	3	9	18	26	35	72	104	126	288

Area of Each Zone					
	200	350	500	700	1000
sq feet	125,660	259,174	400,541	753,960	1,602,165
acres	3	6	9	17	37

Area of Each Zone			
	200	500	1000
sq feet	125,660	659,715	2,356,125
acres	3	15	54

Wells drilled in each zone.

Urban vs Rural	0 - 200	200 - 350	350 - 500	500 - 700	700 - 1000	1000 - 1320	>1320	All						
Amended High Density Location	0.00%	22	0.30%	17	0.23%	9	0.12%	2	0.03%		0.00%		50	
New High Density Location	0.00%	27	0.37%	43	0.59%	8	0.11%	7	0.10%		0.00%		85	
Amended Location	17	0.23%	86	1.18%	111	1.52%	277	3.80%	341	4.68%	367	5.03%	1,715	2,914
New Location	35	0.48%	166	2.28%	272	3.73%	344	4.72%	475	6.52%	331	4.54%	2,618	4,238
Total	52	0.71%	301	4.13%	443	6.08%	638	8.75%	825	11.32%	698	9.57%	4,333	7,290

Percentage represents the percentage of the all wells drilled on the well locations reviewed and approved.

Wells drilled in each zone.

Urban Vs Rural	0 - 200	200 - 350	350 - 1000	Greater than 1000	All				
Amended High Density Location	0.00%	22	0.30%	28	0.38%	0.00%		50	
New High Density Location	0.00%	27	0.37%	58	0.80%	0.00%		85	
Amended Location	17	0.23%	86	1.18%	729	10.00%	2,082	28.56%	2,914
New Location	35	0.48%	166	2.28%	1,091	14.97%	2,949	40.45%	4,241
Total	52	0.71%	301	4.13%	1,906	26.15%	5,031	69.01%	7,290

Percentage represents the percentage of the all wells drilled on the well locations reviewed and approved.

Wells drilled in each zone.

Urban vs Rural	0 - 200	200 - 500	500 - 1000	1000 - 1320	All				
Amended High Density Location	0.00%	39	0.53%	11	0.15%	0.00%		50	
New High Density Location	0.00%	70	0.96%	15	0.21%	0.00%		85	
Amended Location	17	0.23%	197	2.70%	618	8.48%	2,082	28.56%	2,914
New Location	35	0.48%	438	6.01%	819	11.23%	2,949	40.45%	4,241
Total	52	0.71%	744	10.21%	1,463	20.07%	5,031	69.01%	7,290

Percentage represents the percentage of the all wells drilled on the well locations reviewed and approved.