

**CIMARRON DISTRIBUTION COEFFICIENT EVALUATION
2002 SOIL AND GROUNDWATER DATA - ALL "02W" WELLS**

Well ID	2015 DTW (feet bgs)	2002 Soil Data					2002 Groundwater Uranium Data (pCi/L)	Distribution Coefficient (mg/mL)
		Depth (feet)	Sample Length (feet)	Formation	Soil Type in Saturated Zone	Total U (pCi/g)		
02W01	7.25	8	4	Transition Zone	Clay	6.1	3,530	0.8
		15	5			3.0		
02W02	7.2	0	1	Transition Zone	Sand w/ Clay Lens	2.7	140	26.3
		1	1			2.9		
		2	1			2.8		
		3	1			7.4		
		4	1			9.6		
		5	1			12.8		
		6	1			12.8		
		7	1			8.6		
		8	1			8.0		
		9	1			7.7		
		10	1			5.8		
		11	1			5.1		
		12	1			3.2		
		13	1			3.1		
		14	1			4.1		
		15	1			3.1		
		16	1			2.6		
17	1	2.4						
02W03	8.62	8	5	Alluvium (south)	Sand w/ Some Clay	9.1	368	7.1
		15	3			2.6		
02W04	8.68	3	2	Alluvium (south)	Clean Sand	3.3	3,450	0.5
		9	1			3.4		
		10	5			4.1		
		15	1			1.6		
02W05	8.07	5	5	Alluvium (south)	Sand w/ Some Clay	3.0	1,340	1.6
		10	5			2.1		
02W06	8.13	0	1	Alluvium	Clean Sand	2.2	739	1.6
		1	1			2.9		
		2	1			3.3		
		3	1			2.4		
		4	1			1.8		
		5	5			2.5		
		20	1.5			1.2		
02W07	8.6	5	5	Alluvium	Clean Sand	2.9	162	10.5
		10	5			2.0		
		15	5			2.3		
		20	2			0.8		

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		Depth (feet)	Sample Length (feet)	Formation	Soil Type in Saturated Zone	Total U (pCi/g)		
02W08	8.92	0	1	Alluvium	Clean Sand	2.6	9.95	239.4
		1	1			2.8		
		2	1			2.9		
		3	1			1.8		
		4	1			2.4		
		10	1			3.6		
		11	1			3.1		
		12	1			2.5		
		13	1			2.2		
		14	1			2.7		
		15	1			1.4		
		16	1			2.7		
		17	1			1.9		
		18	1			1.5		
		20	1			3.1		
21	1	3.7						
22	1	2.1						
02W09	9.69	8.5	5	Transition Zone	Silty Clay	1.8	2.37	793.2
		17.5	5			1.9		
02W10	6.63	7.5	5	Transition Zone	Clay	2.2	3.45	794.2
		15.5	5			3.3		
02W11	9.56	8	1	Alluvium	Clean Sand	2.9	12.60	124.6
		20	5			1.6		
02W12	9.72	8	5	Alluvium	Sand w/ Clay Lens	2.3	30.50	48.5
		20	5			1.5		
02W13	8.85	7	5	Alluvium	Sand and Clay	2.4	63.70	25.4
		19	5			1.6		
02W14	13.51	8	5	Alluvium	Clean Sand	3.2	45.90	36.4
		21	5			1.7		
02W15	7.93	9.5	2.5	Alluvium	Clean Sand	1.8	9.23	196.1
02W16	7.29	8	2	Alluvium	Clean Sand	1.9	218	9.8
		15	2			2.1		
02W17	8.54	8	5	Alluvium	Clean Sand	2.2	459	3.0
		15	7.5			1.3		
		22.5	0.5			0.6		

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		Depth (feet)	Sample Length (feet)	Formation	Soil Type in Saturated Zone	Total U (pCi/g)		
02W18	8.83	0	1	Alluvium	Clean Sand	2.2	120	11.7
		1	1			2.6		
		2	1			2.7		
		3	1			1.8		
		4	1			2.0		
		5	1			2.0		
		6	1			1.8		
		10	5			3.0		
		15	5			1.5		
		25	0.5			0.8		
25.5	0.5	0.3						
02W19	8.94	7.5	7.5	Alluvium	Sand w/ Clay Lens	2.1	163	13.8
		15	5			2.4		
02W20	10.06	0	1	Transition Zone	Clay	2.2	2.40	762.5
		1	1			3.6		
		2	1			3.0		
		3	1			3.2		
		4	1			2.5		
		5	1			1.8		
		6	1			2.9		
		7	1			2.1		
		8	1			3.0		
		9	1			2.1		
		10	1			1.9		
		11	1			2.3		
		12	1			2.6		
		13	1			2.5		
		14	1			2.8		
15	1	0.4						
16	1	2.0						
17	1	1.8						
18	1	1.8						
19	1	2.8						
20	1	0.4						
21	1	1.9						
22	1	1.9						
02W21	8.7	0	5	Alluvium	Clean Sand	2.7	6.87	232.9
		11	1.5			1.3		
		20	5			1.9		

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		Depth (feet)	Sample Length (feet)	Formation	Soil Type in Saturated Zone	Total U (pCi/g)		
02W22	7.2	0	5	Alluvium	Clean Sand	1.2	6.62	302.1
		8	5			2.0		
02W23	7.35	9.5	5.5	Alluvium	Clean Sand	1.0	7.85	184.7
		20	2.5			1.9		
02W24	8.76	9	7	Alluvium	Clean Sand	1.8	646	2.8
		23	1			1.8		
		24	1			2.2		
		25	0.5			1.4		
02W25	8.76	0	1	Sandstone B	Siltstone and Mudstone	3.1	9.49	210.0
		1	1			1.9		
		2	1			3.0		
		6	1			3.7		
		7	1			3.5		
		8	1			2.9		
		9	1			4.7		
		10	1			6.3		
		11	1			16.4		
		12	1			3.7		
		13	1			2.5		
		14	1			3.1		
		15	1			2.0		
		16	1			2.8		
		17	1			2.4		
		18	1			0.8		
		22	1			1.8		
		23	1			1.3		
24	1	1.5						
25	1	0.9						
26	1	1.5						
27	1	1.4						
30	1	2.2						
31	1	2.0						
02W26	12.31	0	5	Transition Zone	Clay, Silt, and Sand	3.2	12.70	212.6
		5	5			2.1		
		10	5			2.2		
		15	5			2.8		
		20	4			2.6		

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		Depth (feet)	Sample Length (feet)	Formation	Soil Type in Saturated Zone	Total U (pCi/g)		
02W27	9.9	13	3	Sandstone B	Sandstone	1.8	132	13.6
02W28	8.8	9.5	5	Transition Zone	Clay, Silt, and Sand	4.3	141	22.7
		18	5			2.1		
02W29	10.82	9.5	5	Transition Zone	Clay, Silt, and Sand	4.6	1,570	4.0
		14.5	5.3			8.1		
02W30	8.75	17.5	5	Sandstone B	Sandstone	2.1	382	5.5
02W31	6.35	5.5	5	Transition Zone	Clay, Silt, and Sand	6.2	469	8.7
		15	5			4.1		
02W32	9.11	9.5	5	Alluvium	Clean Sand	2.7	263	7.6
		14.5	5.5			1.3		
02W33	7.3	6	5	Alluvium	Clean Sand	1.7	3.80	447.4
02W34	8.11	9	5	Alluvium	Clean Sand	1.6	5.81	275.4
02W35	8.05	9	5	Alluvium	Clean Sand	1.1	18.90	58.2
02W36	8.25	20	5	Alluvium	Clean Sand	1.4	464	3.0
02W37	8.5	20	5	Alluvium	Clean Sand	1.8	91.40	19.7
02W38	9.66	21	5	Alluvium	Clean Sand	1.4	25.40	55.1
02W39	11.31	10	5	Transition Zone	Clayey Sand and Sand	3.5	934	6.0
		17	5			5.6		
02W40	12.43	17	5	Sandstone B	Sandstone and Siltstone	2.2	1,330	1.5
		25	5			1.8		
02W41	12.61	23	5	Sandstone B	Sandstone and Siltstone	0.6	964	0.6
02W42	10.1	23	5	Sandstone B	Sandstone and Siltstone	2.5	11.40	219.3
02W43	8.7	20	7.5	Alluvium	Clean Sand	1.7	191	8.9
02W44	8.65	10	5	Alluvium	Clean Sand	1.2	43.30	32.3
		22	4.5			1.6		
02W45	8.82	10	5	Alluvium	Clean Sand	2.0	69.60	41.7
		23	5			3.8		
02W46	7.73	10	5	Transition Zone	Clay w/ Silt	2.8	1,810	1.7
		15	4			3.5		
02W47	14.14	10	5	Sandstone B	Sandstone and Siltstone	2.0	266	4.5
		25	5			1.2		
02W50	17.64	17	3	Sandstone B	Sandstone and Siltstone	1.2	5.02	305.4
		20	5			1.4		
		25	3			1.2		
		28	5			2		
02W51	8.57	4.5	4.5	Sandstone B	Sandstone and Siltstone	1.7	6.09	213.5
		30	4			1.3		
02W52	18.04	10	14	Sandstone B	Sandstone and Siltstone	1.0	4.09	586.8
		28	5.5			2.4		
02W53	8.43	10	5	Sandstone B	Sandstone and Siltstone	1.0	152	8.0
		15	5			1.5		

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