

## West Virginia Gas Well Pit Fluids

From Table C of 1985 Fact Sheet

except for pH, all values are mg/l

	Upshur County	Dodridge County	Ritchie County	Barbour County	Putnam County	WV Control Permit
pH	6.6	6.9	6.8	7.1	6.8	6 to 10
Total Organic Carbon	25	780	826	291	700	
Total Suspended Solids	121	73	753	70	533	
Total Dissolved Solids	17,819	4,768	40,068	3,168	19,860	
Dissolved Oxygen	4.8	5.1	1.6	3	3	4
Chloride	11,000	3,450	25,250	1,806	11,200	12,500
Oil & Grease	1	2	4.5	4	2.5	15
Metals						
Iron	1.3	1.89	21.3	1.82	14.1	6
Aluminum	0.79	0.55	3.32	0.477	0.852	monitor
Manganese	2.29	3.51	3.16	2.37	0.784	monitor
Arsenic						
Barium	0.93	1.06	11.4	0.966	2.22	
Cadmium	0.1	0.01	0.1	0.01	0.1	
Lead	0.5	0.05	0.5	0.05	0.283	
Sodium	5,020	1,320	7,230	555	3,710	
Calcium	1,610	562	3,590	472	1,080	
Magnesium	132	80.8	269	11.3	15.5	
VOCs						
Benzene	0.0066	0.0166			0.016	
Ethylbenzene	0.0024	0.0023				
M-xylene	0.0103	0.0087				
Toluene	0.014	0.429				

Toxicity	75%, low acute toxicity	no toxicity	13.5%, very high acute toxicity	85%, low acute toxicity	12.75%, very high acute toxicity
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Note: Levels of iron are possibly tied to very high acute toxicity in Ritchie and Putnam pits.