N473g

Table 14.--Chemical Analyses of Ground Water

(concentration in milligrams per liter)

U. S. GEOLOGICAL SURVEY LIBRARY

PLEASE REPLACE IN POCKET IN BACK OF BOUND VOLUME

Stratigraphic unit: Qmw, Mine waste, Qgf, glacial fluvial; Pl, Llewellyn Formation; F, Forge coal bed; B, Baltimore coalbed; UR, Upper Ross coalbed; LR, Lower Ross coalbed; URA, Upper Red Ash coalbed; LRA, Lower Red Ash coalbed; Pp, Pottsville Formation; Mm, Mauch Chunk Formation.

Well number	Map number	Altitude above mean sea level (feet)	Collected: Date	Collected: Depth of well below land surface (feet)	Stratigraphic unit	Depth to water below land surface (feet)	Temperature (°C)	Silica (SiO_2)	Aluminum (Al)	Iron (total)	Iron (ferrous)	Manganese (Mn)	Nickel (Ni)	Copper (Cu)	Zinc (Zn)	Calcium (Ca)	Magnesium (Mg)	Strontium (Sr)	Sodium (Na)	Potassium (K)	Acidity as H_2SO_4	Alkalinity as HCO_3	Sulfate (SO_4)	Calcium-magnesium hardness	Specific conductance (micromhos)	pH (lab)	Total carbon	Remarks
LUZERNE COUNTY																												
410842N760827-1	2	602.6	11/22/66	170	Pp-Mm	57	11	--	0.2	0.21	--	0.02	--	--	--	11	4.3	--	1.0	2.2	0	14	34	45	98	6.8	5.2	Odor of H_2S
43N760825-1	spring BC-1A	592	11/11/66	1sd	Qmw	surface	8	32	70	70	5.8	7.8	--	--	--	20	34	--	1.0	.3	789	--	1,000	190	2,200	2.65	--	Passes through spoil bank.
47N760734-1	5	1,077	1/11/67	204	Pl	155	8	--	--	--	--	5.1	--	--	--	23	30	--	2.5	5.4	--	--	--	181	420	--	--	Odor of H_2S
	5	1,077	1/13/67	227	URA	155	8	--	--	--	--	6.3	--	--	--	19	38	--	2.3	4.5	--	--	--	204	900	--	--	
	5	1,077	1/17/67	227	do.	156	11	--	19	7.1	--	7.8	--	--	--	21	35	--	14	8.2	--	--	492	196	904	2.6	--	
47N760734-2	5X	1,077	3/24/67	155	Pl	152	8	--	--	--	--	4.2	0.28	0.24	0.91	11	29	0.10	.6	2.0	--	--	--	147	619	4.8	--	Odor of H_2S
	5X	1,077	3/24/67	270	URA	152	8	--	--	--	--	5.6	.49	.19	1.2	13	30	.09	.8	1.9	--	--	--	156	898	--	--	
	5X	1,077	3/27/67	300	LRA	152	9	--	19	51	33	5.3	.40	.52	5.1	13	32	.11	.6	1.7	226	0	380	164	895	2.9	--	Field pH 3.80. Pumped through galvanized pipe
52N760653-1	9	813.2	12/ 8/66	80	Qgf-Mm	1	11	--	.2	.01	--	2.0	--	--	--	11	5.8	--	.7	.9	10	0	63	52	189	4.0	10	Non-volatile organic C = 1.0
53N760650-1	spring PL-1S	825	1/11/66	1sd	Pl-Pp	surface	9	18	3.6	.61	.24	1.9	.09	.03	.34	8.4	12	.05	1.5	2.0	35	--	106	70	320	3.80	--	Breached discharge from Priscilla Lee basin.
58N760703-1	20	987.3	3/31/67	65	Pl	62	9	--	--	--	--	4.3	--	--	.71	12	29	.13	.7	2.7	--	--	--	150	793	--	--	Odor of H_2S
	20	987.3	3/31/67	94	LRA	61	9	--	11	41	31	4.3	.27	.04	2.7	8.8	29	.08	.6	1.8	166	0	304	142	930	3.0	--	Pumped through galvanized pipe.
410901N760840-1	1	540.3	8/14/67	55	Pp	22	--	--	4.2	18	16	4.4	--	--	1.1	48	15	--	--	--	56	0	240	182	498	4.1	--	Eh = + .595 volts; Field pH 4.35
02N760535-1	30	945	11/ 9/66	unknown	unknown	flow	13	9.0	.2	.07	--	.08	--	--	--	7.5	2.3	--	--	--	0	16	14	28	45	6.67	--	Volumetric measurement - 7½ gpm
03N760747-1	West End tunnel DT-1	745	11/10/65	1sd	Pp	flow	8	6.0	.2	.19	--	.23	.01	.00	.11	9.0	1.8	--	--	--	0	8	25	30	85	5.63	--	Dissolved oxygen = 10.6
07N760547-1	15	945.1	11/30/66	54	Mm	17	12	--	--	--	--	.00	--	--	--	18	2.2	--	1.4	3.2	--	--	--	54	126	--	--	
	15	945.1	12/ 1/66	73	do.	19	12	--	.0	.01	--	.18	--	--	--	35	2.8	--	2.7	.9	0	83	28	99	216	8.1	31	Non-volatile organic C = 1.5
410907N760758-1	4	705.4	3/14/67	190	UR	186	11	--	--	--	--	12	.32	.04	.52	138	165	.82	3.5	6.7	271	0	--	1,020	1,510	4.35	--	Odor of H_2S