

MINES: Coal - Facility - Sample Not Voided	Number of Samples with Quartz < 0	Sum of Samples with Quartz < 0, MICROGRAMS	Number of Samples with Quartz < 50	Sum of Samples with Quartz < 50, MICROGRAMS	Average of Samples with Quartz < 50, MICROGRAMS	Number of Samples with Quartz => 50 & < 100	Sum of Samples with Quartz => 50 & < 100, MICROGRAMS	Average of Samples with Quartz => 50 & < 100, MICROGRAMS	Number of Samples with Quartz => 100	Sum of Samples with Quartz => 100, MICROGRAMS	Average of Samples with Quartz => 100, MICROGRAMS	Number of Samples	Sum of Samples, MICROGRAMS
Date Range													
1/3/2019 9/23/2019	8	0	193	1447	7.50	3	213	71.00	1	363	363.00	205	2023
Occupations	8	0	193	1447		3	213		1	363		205	2023
BELT MAN/CONVEYOR MAN	1	0	6	48	8.00	0	0		0	0		7	48
BULLDOZER OPERATOR	1	0	75	488	6.51	2	123	61.50	0	0		78	611
CLEANING PLANT OPERATOR	1	0	11	65	5.91	0	0		0	0		12	65
CLEANUP MAN	0	0	10	129	12.90	0	0		0	0		10	129
COAL SAMPLER	0	0	4	45	11.25	0	0		0	0		4	45
COAL TRUCK DRIVER	0	0	1	2	2.00	0	0		0	0		1	2
CRUSHER ATTENDANT	0	0	3	66	22.00	1	90	90.00	0	0		4	156
DIESTER TABLE OPERATOR	0	0	1	2	2.00	0	0		0	0		1	2
DRYER OPERATOR	0	0	2	15	7.50	0	0		0	0		2	15
ELECTRICIAN	0	0	8	72	9.00	0	0		0	0		8	72
FINE COAL PLANT OPERATOR	0	0	9	103	11.44	0	0		0	0		9	103
FORKLIFT OPERATOR	0	0	2	15	7.50	0	0		0	0		2	15
HIGHLIFT OPERATOR/FRONT END LOADER	0	0	5	20	4.00	0	0		0	0		5	20
LABORER/BLACKSMITH	2	0	18	124	6.89	0	0		0	0		20	124
MECHANIC	1	0	8	60	7.50	0	0		0	0		9	60
MINE FOREMAN/MINE MANAGER	0	0	1	5	5.00	0	0		0	0		1	5
OILER/GREASER	1	0	0	0		0	0		0	0		1	0
PREPARATION PLANT FOREMAN	0	0	2	5	2.50	0	0		0	0		2	5
REFUSE TRUCK DRIVER/BACKFILL TRUCK DRIVE	0	0	2	16	8.00	0	0		1	363	363.00	3	379
TIPPLE OPERATOR	0	0	5	17	3.40	0	0		0	0		5	17
UTILITY MAN	0	0	18	140	7.78	0	0		0	0		18	140
WASHER OPERATOR	1	0	2	10	5.00	0	0		0	0		3	10
States	8	0	193	1447		3	213		1	363		205	2023
AL	0	0	1	6	6.00	0	0		0	0		1	6
IL	0	0	6	22	3.67	0	0		1	363	363.00	7	385
IN	1	0	1	5	5.00	0	0		0	0		2	5
KY	3	0	59	424	7.19	1	54	54.00	0	0		63	478
OH	0	0	1	3	3.00	0	0		0	0		1	3
PA	3	0	54	357	6.61	2	159	79.50	0	0		59	516
TN	0	0	3	20	6.67	0	0		0	0		3	20
UT	0	0	3	47	15.67	0	0		0	0		3	47
VA	0	0	13	154	11.85	0	0		0	0		13	154
WV	1	0	52	409	7.87	0	0		0	0		53	409

AB36-COMM-29-2

MINES: Coal - Surface - Sample Not Voided	Number of Samples with Quartz < 0	Sum of Samples with Quartz < 0, MICROGRAMS	Number of Samples with Quartz < 50	Sum of Samples with Quartz < 50, MICROGRAMS	Average of Samples with Quartz < 50, MICROGRAMS	Number of Samples with Quartz => 50 & < 100	Sum of Samples with Quartz => 50 & < 100, MICROGRAMS	Average of Samples with Quartz => 50 & < 100, MICROGRAMS	Number of Samples with Quartz => 100	Sum of Samples with Quartz => 100, MICROGRAMS	Average of Samples with Quartz => 100, MICROGRAMS	Number of Samples	Sum of Samples, MICROGRAMS
Date Range	4	0	439	8321	18.95	67	4445	66.34	28	4968	177.43	538	17734
1/3/2019 9/26/2019													
Occupations	4	0	439	8321		67	4445		28	4968		538	17734
AUGER OPERATOR	0	0	2	6	3.00	0	0		0	0		2	6
BACKHOE OPERATOR	0	0	0	0		0	0		1	376	376.00	1	376
BELT MAN/CONVEYOR MAN	0	0	1	12	12.00	0	0		0	0		1	12
BLASTER/SHOOTER/SHOTFIRER	0	0	3	49	16.33	1	55	55.00	0	0		4	104
BULLDOZER OPERATOR	3	0	191	3354	17.56	32	2122	66.31	11	1764	160.36	237	7240
CLEANUP MAN	0	0	5	70	14.00	0	0		0	0		5	70
COAL DRILL OPERATOR	0	0	1	11	11.00	0	0		0	0		1	11
CRUSHER ATTENDANT	0	0	1	11	11.00	0	0		0	0		1	11
GROUNDMAN	0	0	1	13	13.00	0	0		0	0		1	13
HIGHLIFT OPERATOR/FRONT END LOADER	0	0	3	11	3.67	0	0		0	0		3	11
HIGHWALL DRILL OPERATOR	1	0	217	4619	21.29	33	2217	67.18	14	2518	179.86	265	9354
LABORER/BLACKSMITH	0	0	1	3	3.00	0	0		0	0		1	3
REFUSE TRUCK DRIVER/BACKFILL TRUCK DRIVE	0	0	9	55	6.11	1	51	51.00	1	153	153.00	11	259
ROTARY BUCKET EXCAVATOR OPERATOR	0	0	0	0		0	0		1	157	157.00	1	157
SILO OPERATOR	0	0	1	9	9.00	0	0		0	0		1	9
STRIPPING SHOVEL OPERATOR	0	0	1	49	49.00	0	0		0	0		1	49
TIPPLE OPERATOR	0	0	1	42	42.00	0	0		0	0		1	42
WASHER OPERATOR	0	0	1	7	7.00	0	0		0	0		1	7
States	4	0	439	8321		67	4445		28	4968		538	17734
AL	0	0	28	752	26.86	9	616	68.44	3	748	249.33	40	2116
CO	0	0	1	22	22.00	0	0		0	0		1	22
IL	1	0	16	269	16.81	0	0		0	0		17	269
IN	0	0	22	289	13.14	1	93	93.00	0	0		23	382
KY	0	0	93	1573	16.91	14	905	64.64	3	401	133.67	110	2879
LA	0	0	1	8	8.00	0	0		0	0		1	8
MD	0	0	7	73	10.43	2	121	60.50	0	0		9	194
MT	0	0	11	194	17.64	0	0		0	0		11	194
NM	0	0	10	207	20.70	0	0		1	111	111.00	11	318
OH	0	0	14	204	14.57	0	0		1	116	116.00	15	320
OK	0	0	3	15	5.00	0	0		0	0		3	15
PA	0	0	55	866	15.75	7	472	67.43	4	591	147.75	66	1929
TN	0	0	2	32	16.00	0	0		0	0		2	32
VA	2	0	31	573	18.48	7	452	64.57	4	637	159.25	44	1662
WV	0	0	113	2621	23.19	26	1730	66.54	12	2364	197.00	151	6715
WY	1	0	32	623	19.47	1	56	56.00	0	0		34	679

Table 2 - MINES: Coal - Underground - Sample Not Voided	Number of Samples with Quartz < 0	Sum of Samples with Quartz < 0, MICROGRAMS	Number of Samples with Quartz < 50	Sum of Samples with Quartz < 50, MICROGRAMS	Average of Samples with Quartz < 50, MICROGRAMS	Number of Samples with Quartz => 50 & < 100	Sum of Samples with Quartz => 50 & < 100, MICROGRAMS	Average of Samples with Quartz => 50 & < 100, MICROGRAMS	Number of Samples with Quartz => 100	Sum of Samples with Quartz => 100, MICROGRAMS	Average of Samples with Quartz => 100, MICROGRAMS	Number of Samples	Sum of Samples, MICROGRAMS
Date Range													
1/2/2019 9/26/2019	15	0	5074	88126	17.37	333	21700	65.17	76	11304	148.74	5498	121130
Occupations	15	0	5074	88126		333	21700		76	11304		5498	121130
AUGER HELPER	0	0	1	5	5.00	0	0		0	0		1	5
AUGER OPERATOR	0	0	8	63	7.88	0	0		0	0		8	63
BELT MAN/CONVEYOR MAN	0	0	2	17	8.50	0	0		0	0		2	17
BULLDOZER OPERATOR	0	0	32	242	7.56	0	0		0	0		32	242
BULLGANG FOREMAN/LABOR FOREMAN	0	0	5	35	7.00	0	0		0	0		5	35
CLEANING PLANT OPERATOR	0	0	3	43	14.33	1	70	70.00	0	0		4	113
CLEANUP MAN	0	0	2	47	23.50	0	0		0	0		2	47
CONTINUOUS MINER HELPER	0	0	3	70	23.33	0	0		0	0		3	70
CONTINUOUS MINER OPERATOR	2	0	1340	24915	18.59	110	7224	65.67	25	3742	149.68	1477	35881
CUTTING MACHINE OPERATOR	0	0	12	177	14.75	0	0		0	0		12	177
DISPATCHER	0	0	3	34	11.33	0	0		0	0		3	34
DRYER OPERATOR	0	0	1	1	1.00	0	0		0	0		1	1
ELECTRICIAN	1	0	3	48	16.00	0	0		1	101	101.00	5	149
FINE COAL PLANT OPERATOR	0	0	1	4	4.00	0	0		0	0		1	4
FIRE BOSS PRE-SHIFT EXAMINER	0	0	3	22	7.33	0	0		0	0		3	22
HAND LOADERS	0	0	1	4	4.00	0	0		1	288	288.00	2	292
HEADGATE OPERATOR	0	0	9	191	21.22	2	135	67.50	2	258	129.00	13	584
HOIST ENGINEER/OPERATOR	0	0	0	0		0	0		1	329	329.00	1	329
Invalid Code	0	0	0	0		1	71	71.00	0	0		1	71
JACK SETTER (LONGWALL)	0	0	81	1710	21.11	13	914	70.31	6	660	110.00	100	3284
LABORER	0	0	14	149	10.64	1	71	71.00	1	307	307.00	16	527
LABORER/BLACKSMITH	0	0	2	22	11.00	0	0		0	0		2	22
LONGWALL OPERATOR (HEADGATE SIDE)	0	0	10	255	25.50	1	56	56.00	3	312	104.00	14	623
LONGWALL OPERATOR (TAILGATE SIDE)	0	0	85	1869	21.99	13	935	71.92	7	1453	207.57	105	4257
MAINTENANCE FOREMAN	1	0	3	26	8.67	0	0		0	0		4	26
MECHANIC	0	0	80	1136	14.20	5	315	63.00	0	0		85	1451
MOBILE BRIDGE OPERATOR	0	0	139	1668	12.00	1	67	67.00	0	0		140	1735
MOTORMAN	0	0	3	59	19.67	0	0		0	0		3	59
OCCUPATION CODE NOT FOUND	7	0	546	4857	8.90	6	409	68.17	1	145	145.00	560	5411
ROOF BOLTER (MOUNTED) (INTAKE SIDE)	0	0	4	71	17.75	0	0		0	0		4	71
ROOF BOLTER (MOUNTED) (RETURN SIDE)	0	0	74	1313	17.74	3	229	76.33	0	0		77	1542
ROOF BOLTER (SINGLE HEAD)	0	0	12	117	9.75	0	0		0	0		12	117
ROOF BOLTER (TWIN HEAD) (INTAKE SIDE)	0	0	18	361	20.06	0	0		2	253	126.50	20	614
ROOF BOLTER (TWIN HEAD) (RETURN SIDE)	0	0	1170	26378	22.55	126	8100	64.29	14	1788	127.71	1310	36266
SCOOP CAR OPERATOR	0	0	35	617	17.63	2	105	52.50	3	360	120.00	40	1082
SCOOP OPERATOR	0	0	2	13	6.50	0	0		0	0		2	13
SECTION FOREMAN	0	0	8	83	10.38	0	0		0	0		8	83
SHUTTLE CAR OPERATOR (OFF STANDARD)	1	0	130	1927	14.82	1	75	75.00	1	357	357.00	133	2359
SHUTTLE CAR OPERATOR (STANDARD SIDE)	3	0	1207	19363	16.04	44	2721	61.84	7	847	121.00	1261	22931
SUPERINTENDENT	0	0	1	11	11.00	0	0		0	0		1	11
TIPPLE OPERATOR	0	0	1	11	11.00	0	0		0	0		1	11
UTILITY MAN	0	0	17	165	9.71	3	203	67.67	1	104	104.00	21	472
VACUUM FILTER OPERATOR	0	0	1	4	4.00	0	0		0	0		1	4
WASHER OPERATOR	0	0	2	23	11.50	0	0		0	0		2	23
States	15	0	5074	88126		333	21700		76	11304		5498	121130
AL	1	0	136	2574	18.93	23	1620	70.43	9	1411	156.78	169	5605
CO	1	0	93	1327	14.27	6	422	70.33	1	100	100.00	101	1849
IL	0	0	495	9974	20.15	34	2167	63.74	6	636	106.00	535	12777
IN	2	0	387	7349	18.99	19	1125	59.21	0	0		408	8474
KY	4	0	1084	17477	16.12	57	3763	66.02	10	1479	147.90	1155	22719
MD	0	0	19	235	12.37	1	51	51.00	0	0		20	286
MT	0	0	21	401	19.10	2	146	73.00	3	353	117.67	26	900
NM	0	0	16	245	15.31	0	0		2	365	182.50	18	610
OH	0	0	53	1024	19.32	1	68	68.00	0	0		54	1092
OK	0	0	3	28	9.33	0	0		0	0		3	28

PA	2	0	571	7902	13.84	16	1031	64.44	3	924	308.00	592	9857
TN	0	0	12	272	22.67	0	0		0	0		12	272
UT	1	0	146	2159	14.79	14	926	66.14	10	1563	156.30	171	4648
VA	2	0	417	6055	14.52	16	1049	65.56	1	112	112.00	436	7216
WV	2	0	1597	30843	19.31	144	9332	64.81	31	4361	140.68	1774	44536
WY	0	0	24	261	10.88	0	0		0	0		24	261