

APPENDIX B
MINING INFORMATION SUMMARY

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DEEP MINE INVENTORY

The following tabulation summarizes information about every underground mine opening in the watershed including:

- (1) location, listed by Sub-Basin and monitoring point when applicable
- (2) entry type (drift, slope, shaft)
- (3) coal seam
- (4) acid contribution
- (5) date mined
- (6) mine name

This information has been compiled with reference to all available mine maps and through extensive field investigations.

Sub Basin	Deep Mine No. or Location	Mine Type	Coal Mined	Estimated Average Acid Discharge (lbs./day)	Years Mined	Remarks
6	4904 and mine 200' north	Drift mines	PGH	None		Mined on the dip Mines drain via heading 4905 in sub-basin 11 because of structural dip S. Drains area to the west
	4910	Drift mine	PGH	87		Network drains to the east via heading 4906 in sub-basin 11
	4911	Drift mine	Pittsburgh	None		
	4912	Drift mine	Pittsburgh	None		
	4913	Drift mine	Pittsburgh	None		
	4914	Drift mine	Pittsburgh	None		
8	4772	Drift mine	PGH	80		Drains area to the northeast
	4773 and adjacent opening	Drift mine	PGH	85		Drains area to the northeast
	4800 and adjacent opening	Drift mines	PGH	11		Drain area to the north
	Five mines around perimeter of surface mine #3	Drift mines	PGH	None		Mine workings being stripped out
	Mine on W. side of hill directly S.E. of surface mine #3	Drift mine	PGH			No discharges observed
	2 mines directly N. of surface mine #3	Shafts	UP	None	Active	Homer City Mine - The Helen Mining Company (Mining Permit #387MO32)
9	4774	Drift mine	PGH	11		Drains area to the north No discharges observed
	Two mines approx. 2500' to S.W. of mine 4774	Drift mines	PGH	None		
	13A (two adjacent mines 1250' SE of mine 4774)	Drift mines	PGH	32		Drain hill area to the east
	4902	Drift mine	PGH	50		Drainage from the northwest
	4903	Drift mine	PGH	47		Same as 4902
	4905	Drift mine	PGH	28		Drains hill area to the immediate north
11	4906	Drift mine	PGH	144		Drains area to the northwest
	Two mines within surface mine 5A	Drift mines	UP			Negligible drainage from southeast Stream alkaline downstream
	4900 (three adjacent entries)	Drift mines	UP	5		Negligible drainage - Coal seam mined on the dip
	Two entries immediately E of 4900	Drift mines	UP	None		No discharge

Sub Basin	Deep Mine No. or Location	Mine Type	Coal Mined	Estimated Average Acid Discharge (lbs/day)	Years Mined	Remarks
15	Entry 1100' east of mine 4773 in sub-basin 8	Drift mine	PGH	None		Drainage down dip to southwest back into opening
	Mine lying near center of sub-basin	Shaft	UP	None		The Helen Mining Company - Homer City mine (Mining Permit #367MO32)
	Two mines near NE end of sub-basin	Shafts	UP	None		Helvetia Mining Co. - Helvetia mine #1 (Mining Permit #366MO25)
17	Two mines within surface mine 7	Drift mines	UP	None	1931	Berenni Mine (Probably connected with Potter Mine Coal mined down dip away from entry)
	Mine on east tip of surface mine 8	Drift mine or Deep mine inter-section	UP	None	1912-1939	Potter (Coral) Mine - Potter Coal & Coke Co.
18	24k (two adjacent mines)	Drift mines	UP	75		Drain area to south
	Mine in NW limb of surface mine 12	Drift mine	UP	None		Drainage down dip away from heading via mines 24A
	Three mines on eastern end of surface mine 12	Drift mines	UP	None		Minor drainage from the area - Insignificant
19	26B	Drift mine	LK	39	1919-1931	Jewell No. 3 mine - Smith Coal Co. Minor drainage
	5017 (two adjacent mines)	Drift mines	LK	123	1919-1931	Jewell No. 3 mine - Smith Coal Co. - Drainage from the SE down dip toward entry
	5034 (two adjacent mines)	Drift mines	UP	6		Workings being stripped out
	5018	Drift mine	LK	335	1919-1931	Jewell No. 3 mine - Smith Coal Co. Drains area to the southeast
	5019 and entry 100' N	Drift mines	LK	37		Down dip of all entries lying immediately to the southeast
	5020 plus 2 entries NW, and 1 entry SE	Drift mines	LK	None		No drainage from entries
	Three mine openings directly east of surface mine 13	Drift mines	LK	80	1919-1931	Jewell No. 3 mine - Smith Coal Co. Very little drainage observed - 5018 down dip drains system
20	5029	Drift mine	LK	41 for entire sub-basin	1919-1931	Jewell No. 3 mine - Smith Coal Co. Only slight seepage observed
	Mine 800' NW of 5029	Drift mine	LK	None	1919-1931	Jewell No. 3 mine - Smith Coal Co. Only slight seepage observed
21	32B (three entries)	Drift mines	LK	None	Operative during 1969 Recopening 1974	H. American Coal Corp. - Josephine Mine #2 Only slight seepage observed Coal mined on the dip
	32C (four adjacent entries)	Drift mines	LK	360 possibly more		Crichton Coal & Coke Co. Mine
	Mine entry immediately W of surface mine 21	Drift mine	UP	None		Coal mined down dip of the entry No drainage

Sub Basin	Deep Mine No. or Location	Mine Type	Coal Mined	Estimated Average Acid Discharge (lbs/day)	Years Mined	Remarks
21	Two mines on east end of surface mine 20	Drift mines	LK	None		No seepage observed directly from mine Coal mined on the dip from entries Crichton Coal & Coke Co. Mine Rochester & Pittsburgh Coal Co. - Luciusboro mine
	4922 (two entries)	Drift mine	UF	676		
	4937 and adjacent entry	Drift mines	UF	None		No drainage associated with entries
	Mine entry immediately S of surface mine 21	Drift mine	UF	None		No discharge
22	Mine entry on N end of surface mine 24	Drift mine	UF	None		Coal mined on the dip
	Mine entries on S end of surface mine 24	Drift mines	LF	None	Active	N. American Coal Corp. - Mining Permit #3270308 or #3270307 - Auld's Run No. 2 Mine Discharges noted from vicinity of ventilation shaft flowing northward
	Five mine entries on SE end of surface mine 26	Drift mines	LK	None	1967-?	Crichton Coal & Coke Co. - Virginia #20 mine (Mining Permit #367M006) No discharges observed Coal mined down dip from entries
	Six mine entries on N end of surface mine 33	Drift mines	LF	None		Small amount of seepage noted at N tip of surface mine 33 which may be related to drift min. Area is almost totally mined out
24	Mine entry on SE tip of surface mine 33	Drift mine	UF	None		Coal mined on dip away from entry Discharge noted in highwall on SW end of surface mine 35 which is likely an intersection of these workings
	Mine entry in surface mine 41	Drift mine	LF	None		Coal mined down dip from entry
	4898	Drift mine	LK	1768	1930	L.C.S. Collieries Co. - Virginian #14 mine Drains area to the northwest
	Mine entry in center of surface mine 46	Drift mine	LK		1930	L.C.S. Collieries Co. - Virginian #14 mine. No direct drainage observed May discharge unnoticed into pond between strip mines #45 and #46
26	Three mine entries near north end of surface mine 46	Drift mines	LK		1930	L.C.S. Collieries Co. - Virginian #14 mine No direct drainage observed
	4890 (two entries)	Drift mine	LK	5033	1940-1952	L.C.S. Collieries Co. - Virginian #14 mine Drainage point for most of Virginian #14 mine complex
	4895	Drift mine	UF	None	1968-?	Sunny Creek Coal Co., Inc. - Auld's Run Mine Discharge is alkaline
	46B 48C 4876 adjacent opening	Drift mine " " "	UF " " "	None " " "		Discharges alkaline " " "
27	46D (two entries)	Drift mines	LF	None	1936-?	Heshbon #2 mine Discharges alkaline
	entry immediately to west	"	"	"	1936-?	Heshbon #2 mine No discharge

Sub Basin	Deep Mine No. or Location	Mine Type	Coal Mined	Estimated Average Acid Discharge (lbs/day)	Years Mined	Remarks
27	Entry immediately W of sampling station 44	Drift mine	LK			
28	Two mine entries, at mouth of sub-basin	Drift mines	LK	None	1917-1951 ?	Caldwell Smokeless Coal Co. - Caldwell No. 2 No discharges observed Likely, discharge is thru drift mine #4889
30	4835	Drift mine	UP	113		
31	4868	Drift mine	LK	2734	1919-1932	Standard Bituminous Coal Co. - Virginian #15 or Buena Vista Mine Drains area to the east May be charged via infiltration in strip mine #55
32	4863A (four entries)	Drift mines	LK	None		E & S Coal Co. Coal mined down dip away from entry
33	Three mine entries 1800' NE of 4863A 4875 and adjacent opening 4877 (three entries)	Drift mines Drift mines Drift mines	LK LK LK	3 9	Active 1971-present	Oneida Coal Co. - Oneida No. 4 mine (Mining Permit #3271301) No discharges observed Coal mined down dip from entry Coal mined on the dip Hutzel mine Coal mined on the dip
34	Mine just E of 4877 (four entries) 4859 (two entries) 4860	Drift mines Drift mine	LK LK	290 None	Active 1967-present	Florence Mining Co. Mine No. 1, Blacklick Portal (Mining Permit #3678049) Very old workings. Active Florence Mining Co. lower Kittanning mine to immediate west Thompson No. 1 mine which had advanced into Kiskimittis Coal Co. - Brush Valley Mine Coal mined down dip from entry Drainage is via drift mine #4858 of the Brush Valley Mine
35	Three entries along road NE of sampling station 55 Four entries just W of sampling station 55 Three entries in surface mine 67 just SE of sampling station 56 4748 Five entries immediately adjacent to 4748 4874	Drift mines Drift mines Drift mines Drift mine Drift mines Drift mine	LF UP LK LK LK LK	None None 274 None 119	Active 1968-? 1915-1938 1915-1938 1915-1938	Coal mined down dip from entries No discharges Florence Mng. Co. - Dias No. 2 (Mining Permit #3687007 and #3687009) Mine acid treatment facility for lower Kittanning workings also of sub-basin 33 via borehole Armagh Coal Co., Inc. - Marldis Run Mine (Mining Permit #3674050) Minor seepage observed in area intersected the Brush Valley Mine and is draining via drift mine #4858 Mined section lies up dip of entry Cosgrove-Meehan Coal Co. - Thermal No. 15 mine Thermal No. 15 mine Mined section lies up dip of entry Thermal No. 15 mine

Sub Basin	Deep Mine No. or Location	Mine Type	Coal Mined	Estimated Average Acid Discharge (lbs/day)	Years Mined	Remarks
35	Three entries immediately W of 4874	Drift mines	LK	None	1915-1938	Thermal No. 15 mine
36	Two entries lying S of surface mine 72	Drift mines	LF	None		No discharges observed Coal mined down dip from entries
43	4746	Shaft	LK	8704		Lackawanna No. 4 - 1910 (Wehrum Mine)
46	4851	Drift mine	LK	1	1966-1970	D & J Coal Co. - "B" seam mine No. 1 (Mining Permit #566H037)
	Six entries within surface mine 81	Drift mines & 1 shaft	LK	241		The Vinton Colliery Co. - Vinton No. 1 mine
	Mine 1000' NE of sampling station 72	Drift mine	LK		pre 1910 - 7	The Vinton Colliery Co. - Vinton No. 1 mine
	4854 and adjacent entry	Drift mine	LK	59	pre 1910 - ?	
	4853	"	"	55	"	
	4855	"	"		"	
	Three entries south of sampling station 75A	Drift mines	LK	14	pre 1910 - 7	The Vinton Colliery Co. - Vinton No. 1 mine (Rager mine - pre 1910)
	Three entries north of sampling station 75A	Drift mines	LK	73		The Vinton Colliery Co. - Vinton No. 1 mine
	Entry just N of sampling station 72	Drift mine	LK			
48	80A	Slope mine	LK	15,194		Commercial Coal Mining Co. - Commercial No. 16 mine
	Entry just SW of 80A	Air shaft	LK	None		The Vinton Colliery Co. - Vinton No. 6 mine
	Two entries directly W of Red Hill	Air shafts	LK	None		The Vinton Colliery Co. - Vinton No. 6 mine
	Entry immediately W of sampling station 96A	Shaft	LF	None	1971-?	Barnes & Tucker Coal Co. - Lancashire No. 24 Mine (Mining Permit #1170302) Previous acid mine drainage treatment facility
	Entry S of Stiles Crossing	Shaft	LF	None	1971-?	Barnes & Tucker Coal Co. - Lancashire No. 24 mine (Mining Permit #1170302)
	Entry W of Stiles Crossing	Shaft	LK	None	1971-present	Barnes & Tucker Coal Co. - Lancashire No. 24B mine (Mining Permit #1170303)
	Entry just W of sampling station 94	Shaft	LK	None	1971-present	Barnes & Tucker Coal Co. - Lancashire No. 24B mine (Mining Permit #1170303) Teakettle Shaft
	Portal No. 15 W of Blue Goose	Shaft	LF	None	1971-?	Barnes & Tucker Coal Co. - Lancashire No. 25 mine (Mining Permit #566H004)
	Entry immediately N of Spangler Reservoir	Air shaft	LF	None	1971-?	Barnes & Tucker Coal Co. - Lancashire No. 25 mine (Mining Permit #566H004)

Sub Basin	Deep Mine No. or Location	Mine Type	Coal Mined	Estimated Average Acid Discharge (lbs./day)	Years Mined	Remarks
48A	5125	Shaft	LK	None	1967-?	Eastern Associated Coal Corp. - Colver mine (Mining Permit #567M017) Previous discharge point
	Entry W of sampling station 89	Shaft	LK		Active	Eastern Associated Coal Corp. - Colver mine (Mining Permit #567M017) Present acid mine drainage treatment facility
	Entry immediately S of Duman Lake Park	Shaft	LF		Active	Barnes & Tucker Coal Co. - Lancashire No. 25 mine (Mining Permit #566M004) Present acid mine drainage treatment facility
	Portal No. 1 N of sampling station 100	Shaft	LF	None	1971-?	Barnes & Tucker Coal Co. - Lancashire No. 25 mine (Mining Permit #566M004)
	Entry W of surface mine 122	Slope mine?	LK	None		Commercial Coal Mining Co. - Mine No. 5 No discharge
48B	Entry immediately W of Mine Row	Slope	LK		Active	Previous Ebensburg Coal Co. - Ebensburg mine No. 1 now Eastern Associated Coal Corp. - Colver mine (Mining Permit #567M017)
	Entry in W end of Colver	Shaft	LK	None		Previous Ebensburg Coal Co. - Ebensburg mine No. 1 now Eastern Associated Coal Corp. - Colver mine (Mining Permit #567M017)
	Three adjacent entries in surface mine 90	Drift mines	LF			Previous Eastern Associated Coal Corp. - Colver#2 mine (Mining Permit #566M020) now Starford Coal Corp. - Starford No. 1 mine (Mining Permit #1172301)
	Entry near S end of surface mine 90	Drift mine	LF			
48C	Entry in surface mine 92	Drift mine	LF	None		
49	4750 (two entries)	Drift mines	LK	45	pre 1910-?	Vinton No. 2 mine Very slight drainage
	Entry just SW of mine refuse dump 32	Drift mine	LK		pre 1910-?	The Vinton Colliery Co. - Vinton No. 1 mine
	Two entries near center of sub-basin	Drift mines	LK	None		The Vinton Colliery Co. - Vinton No. 1 mine
50	Two entries near center of sub-basin	Drift mines	LK	None	pre 1910-?	
51	4798	Drift mine	LK	None	pre 1910-?	Commercial Coal Mining Co. - Mine No. 16 Coal mined down dip from entry
52	Entry 400' W of 4798	Drift mine	LK	None	Pre 1910-?	Commercial Coal Mining Co. - Mine No. 16 Coal mined down dip from entry
	4797 (two entries)	Drift mines	LK	98		
	5027	Drift mine	LK			
	5031	Drift mine	LK			
	Two entries 600' NE of 4797	Drift mines	LK			

Sub Basin	Deep Mine No. or Location	Mine Type	Coal Mined	Estimated Average Acid Discharge (lbs/day)	Years Mined	Remarks
52	Two entries SW of sampling station 109	Drift mines	LK	None		Lies up dip of drainage
54	Entries just N. of D44	Drift mines	LK	90		Commercial No. 5 mine - Commercial Coal Mining Co.
	114A, 114B	Drift mines	LK	20		Imperial Cardiff Coal Co. - Cardiff mine
	5079	Drift mine	LK	200	pre 1910-7	Imperial Cardiff Coal Co. - Cardiff mine
	5081 (plus three entries to immediate E)	Drift mines	LF	None		Johnstown Coal & Coke Co. - Twin Rocks mine (Mining Permit #567H025)
	Mine entry lying between surface mines 105, 106	Drift mine	LK		pre 1910-7	Commercial No. 2 mine - Commercial Coal Mining Co.
	Two entries just NW of Cardiff	Drift mines	LK	None		Warren Collieries Co. - Cardiff No. 6 mine
	Five entries S of Griffithtown	Drift mines	LK			Second most western drift draining via pipe near caved heading
55	115A	Drift mine	LK	393		Commercial Coal Mining Co. - Commercial #2 mine
	Entry 1000' N of 115A	Drift mine	LK	None		No drainage observed - likely drained via 115A down dip
	5014	Drift mine	LK	None		Warren No. 10 Mine
56	Entry E. of sampling Station 116	Drift Mine	LK	None		
57	117A (two entries)	Drift mines	LK	173		Nanty Glo Coal Mining Co. - Mine No. 1
	Entries 800' SW & SE of 117A	Air shaft & Drift mine	LK			Nanty Glo Coal Mining Co. - Mine No. 1
59	5035 (four entries)	Drift mines	LK	None	pre 1910-7	Lincoln Coal Co. - Lincoln Mine
	Four entries W. of Mine waste banks	Drift mines	LK	None		Warren No. 10 Mine
	Entry immediately S of 5035	Air shaft?	LK	None		Springfield Coal Co. - mines #1 and #3
60	Entries W of sampling station 119A	2 drift mines 1 air shaft	LK	3788	pre 1910-7	Webster Coal & Coke Co. - Webster No. 14 Mine
	Mines immediately N of mine dump D4	6 drift mines	LK	None	Active	Former Heasley Coal Co. - mine No. 3 now Bethlehem Mines Corp. - Nanty Glo #31 mine (Mining Permit #1170301)
	Two entries W and SW of sampling station 119	Shafts	LK	None	pre 1910-7	Webster Coal & Coke Co. - Webster No. 14 Mine
64	5187 and 5188	Borehole		None	Active	Bethlehem Mines Corp. - Revloc #32 and Cambria Slope #33 treated borehole discharge (Mining Permit #1169306)
	Three portals 5000' W of Ebansburg Airport	Shafts	LK	None		Springfield Coal Co. - mines #1 and #3 (N. most shaft) Previous Heasley Coal Co. - mine No. 3 now Bethlehem Mines Corp. - Nanty Glo #31 mine (Mining Permit #1170301)

Sub Basin	Deep Mine No. or Location	Mine Type	Coal Mined	Estimated Average Acid Discharge (lbs/day)	Years Mined	Remarks
64A	Entry immediately W of Williams Run Reservoir	Air shaft	LK	None	Active	Bethlehem Mines Corp. - Revloc #32 and Cambria Slope #33 mines (Mining Permit #1169306)
	F. portal at N end of sub-basin	Shaft	LK	None	Active	Bethlehem Mines Corp. - Revloc #32 and Cambria Slope #33 (Mining Permit #1169306)
64B	Two entries immediately S of Revloc	Shafts	LK	None	Active	Former Monroe Coal Mining Co. - Revloc No. 1 mine now Bethlehem Mines Corp. - Revloc #32 mine (Mining Permit #1169306)
75	4908 and heading immediately W	Drift mines	PGH	None		
	Blairsville to W of Reshbon	Drift mine	PGH	None		
	4907	Drift mine	PGH	None		
	22 (six headings)	Drift mines	LK	2279	1967	3-SW drifts (The North American Coal Corp. - Josephine Mine) sealed and flooded
	Mine on W end of mine dump D11	Air shaft?	LK	None	1905-1937	3-NE drifts (Westmorland Mining Co. - Bells Mill Mine)
	5028	Drift mine	LK	25		Bells Mill Mine
	5026	"	"	1306		
	5025	"	"	None		
	5024	"	"	None		
	5023	"	"	2		
	Heading 1000' NE of 5023	"	"			
	Two headings immediately S of surface mine 46	Drift mines	LK	None	1929-1940	L.C.S. Collieries Co. - Virginia #14 mine Coal mined on the dip away from headings
75 Reshbon to W of Dias	Heading in vicinity of sampling station 44	Drift mine	LK	None		
	4888	Drift mine	UP	None	1917-19517	
	43A and NE adjacent heading	Drift mine	LK	None		
	4889	Drift mine	LK	239	1917-19517	Caldwell Smokeless Coal Co. - Caldwell No. 2
	4887A (two headings)	Drift mines	MK7	None		
	4887 (two headings)	Drift mines	UP	None		The Vinton Colliery Co. - Vinton No. 14 mine
	4886 (two headings)	Drift mines	UP	None	1917-1918	The Vinton Colliery Co. - Vinton No. 12 mine
	Heading in surface mine No. 52	Drift mine	UP	None	1917-1918	The Vinton Colliery Co. - Vinton No. 11 mine
	Two headings in surface mine 115	Drift mines	LK	None	1918-1923	The Vinton Colliery Co. - Vinton No. 16 mine

Sub Basin	Deep Mine No. or Location	Mine Type	Coal Mined	Estimated Average Acid Discharge (lbs/day)	Years Mined	Remarks
75 Reahbon to W of Dias Cont.	Two headings at W end of surface mine 63	Drift mines	LK	None	1920-1921	The Vinton Colliery Co. - Vinton No. 17 mine
	Heading in surface mine 63 N of surface mine 62	Drift mine	LK	None		Hutsel Mine
Dias to Confluence of N & S Branches Blacklick Creek	Three headings in SW end of surface mine 59 4866A	Drift mines	LK	551	1917-1930	The Caldwell Smokeless Coal Co. - Caldwell No. 1 mine
	Heading on E end of surface mine 67	Drift mine	Brookville LK	60		Old Amerford mine
	4858 (three headings)	Drift mines	LK	7064	1905-1928	Kiskiminitis Coal Co. - Brush Valley mine
	4857 (four headings)	"	"	445	1913-1927	Amerford Mine
76	Three headings in SW bend of surface mine 68	Drift mines	LK		1915-1938	Cosgrove-Meehan Coal Co. - Thermal No. 15 mine
	Heading monitored by sampling station 4870	"	"	152	"	"
	Three mines in surface mine 117	Drift mines	LK	None	1913-1927	Amerford Mine
	Two mines in Wehrum	Shafts	LK	None		Lackawanna No. 4 - 1910 (Wehrum Mine)
76	Two mines immediately W of mine dump D7	Shafts	LK	None		Lackawanna No. 3 - 1910
	Heading just W of sampling station 106A	Drift mine	LK	None		The Vinton Colliery Co. - Vinton No. 1 mine
	4794 (three headings)	Drift mine	LK	170	pre 1910-7	Vinton No. 2 mine Coal mined up dip from entry
	106B (two headings)	Drift mines	LK	14,012		The Vinton Colliery Co. - Vinton No. 6 mine
	4542 (three headings)	Drift mines	LK	1176	pre 1910-7 1967-present	Vinton Coal Co. - No. 3 mine (Mining Permit #567H014)
	Three headings in vicinity of surface mine 118	Drift mines	LK	None		Commercial Coal Mining Co. - Mine No. 16
76	Seven headings near mine dumps D38, D39, D40	Drift mines	LK	None		(2 drifts NE of D40) Big Bend Coal Co. - Nonpariel mine. (Drift W of D40 and 2 drifts W of D38) Commercial Coal Mining Co. - Mine #16, (2 drifts E of D40) - Commercial No. 2 mine
	Eight headings adjacent to N end of surface mine 98	Drift mines	LK	477		Nanty Glo Coal Mining Co. - mine No. 1

Sub Basin	Deep Mine No. or Location	Mine Type	Coal Mined	Estimated Average Acid Discharge (lbs/day)	Years Mined	Remarks
76	Three headings to E of sampling station 121	Drift mines	LK	None		Springfield Coal Co. - Mines #1 and #3
	Two headings to E of Nanty Glo Park	Slope mines	LK	None		Springfield Coal Co. - Mines #1 and #3
	5043 (two mines)	Drift mines	LF	None		Ivory Hill Mine
	Headings immediately N. of D57	Slope mines	LK	None		Springfield Coal Co. - Mines #1 and #3