	40ki	MENBER SECTION	PROMINE'S  PROMINE'S  MOUNT MORRIS LIMESTONE SHALE	24 76
		(8)	ROM EO	A THICKNE
1/2	8/		6. 0.	14 12
			MOUNT MORRIS LIMESTONE	5'
			WAYNESBURG SANDSTONE	10' to 35'
	WAYNESBURG	=======================================	SHALE WAYNESBURG COAL (Upper) SHALE	10'1020'
			SANDSTONE	10'1020'
			SHALE WANESBURG COAL (Lower) BROWNSVILLE SANDSTONE	0' to 10'
	YNE		LITTLE WAYNESBURG COAL WAYNESBURG LIMESTONE	5' to 15'
	WA		SHALE	20' to 25'
	7	-	UNIONTOWN SANDSTONE	15 (S) (S)
	TOWI		UNIONTOWN COAL	10' to 30'
	UNIONTOWN		UNIONTOWN LIMESTOWN (INTERBEDDED LIMESTONE and SHALE)	30' to 35'
	5		1	
	7			
	SEWICKLEY		BENWOOD LIMESTONE	100'to120'
A	WIG	FIFT	(MASSIVE 10'1025' BEDS WITH SHALE and CLAYSTONE PARTINGS	
	SE			
HE				
A	STONE		SEWICKLEY COAL CLAY SHALE	10' to 15'
OZ			SANDY SHALE CARBONACEOUS SHALE	10' to 15'
0		-	FISHPORT LIMESTONE	15' to 20'
0			SEWICKLY SANDSTONE	10 10 20
Σ	REC	(		10' to 25'
		~~~~~~	REDSTONE COAL	10' to 15'
			REDSTONE CLAY REDSTONE LIMESTONE	7' to 12'
			PITTS BURGH SANDSTONE (OFTEN FINELY BEDDED WITH	
	виксн	(	BLACK SILTY SHALE)	30' to 60'
	SBU		PITTSBURGH RIDER COAL (ERRATIC)	
IB	1		Company of the State of the Sta	
	1	=	BLACK CARBONACEOUS CLAY SHALE	10'
題		THEFT	PITTSBURGH COAL	10'to 13'
	Sire	- 000000 -	UNDERCLAY and LIMESTONE SANDY SILT STONE	B'to 13'
護	ВН			景画
	TTLE	\$.E.S.S.	PITTSBURGH LIMESTONE FORMATION (LENTICULAR, VERY ERRATIC)	
		BATTER OF	INTERBEDDED SANDSTONE	70'
	PIT		SHALE '	
I			SILTSTONE	
	ILLS.			
	CONNELLS	(	CONNELLSVILLE SANDSTONE	5' to 50'
		777777	CLARKSBURG CLAY and LIMESTONE	7 'to 10'
AUGH	Z	(		
	TOWN			
	GAN	7	MORGANTOWN SANDSTONE MASSIVE	60' to 90'
	Œ	\ <b>\</b>		
E	NO W	5		
ZO		-	WELLERS BURG CUAL	5' to 15'
0			WELLERS BURG CLAY BIRMINGHAM "SCHENLEY" RED BEDS	5' to 15'
	A STATE OF	(	BIRMINGHAM SANDSTONE and SHALI	
	z	(	(SHALY TO EAST)	45 to 70
1	FTO			
	RAF	<u> </u>	DUQUESNE COAL	10' to 15'
	0	//////////////////////////////////////	GRAFTON SANDSTONE	5'to 10'
			RED BEDS	20'10 25'
		=	AMES LIMESTONE	The state of
1	出版上	LABORA WALLEY	MATCH I	INE

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	PITTSBURGH RED BEDS	10 'to 50'
at a		
RG	UPPER SALTSBURG SANDSTON (OFTEN SHALY)	IE 15' to 20'
3 0	BAKERSTOWN COAL and LIMES	STONE
TS		
A	WOODS RUN LIMESTONE OF	
S	RED CLAYSTONE	13 10 15
	GRAY SHALE WITH	
		30' to 35
	PINE CREEK LIMESTONE	
07	BUFFALO SANDSTONE	M ox. 4 0'
A	SHALE	
F		2 5' to 30'
0		3, 3, 75, 623
B	BRUSH CREEK COAL	
	BRUSH CREEK CLAYSTON	E 15' to 25'
	UPPER MAHONING SAN	DSTONE
MAHONING	MAHONING COAL (ERRATIC	()
	LOWER MAHONING SANDSTONE	95'
	FREEPORT RIDER COAL	2' to 15'
	S HALE UPPER FREEPORT COAL	4' to 5'
	1///////	
-	UPPER FREEPORT LIMEST	ONE 5' 10 10'
	BOLIVAR FIRE CLAY	2 10 5
2	BUTLER SANDSTONE (SHA	LY) 15' to 30'
РО	LOWER FREEPORT COAL	CANDY) S'A-10'
ZE E	E CONTRACTOR CONTRACTOR	SANDY) 5'1010'
L	FREEPORT SANDSTON	
	(SHALY)	40' to 60'
	UPPER KITTANNING COAL	LE) 13' to 14'.
ITTANNING	SOFT SHALES WITH THIN SEAMS OCCASIONAL THIN	CLAY BEDDED 70'to 100
X		
130	LOWER KITTANNING COAL	2' to 3'
	TANNING FREEPORT MAHONING BUFFALO SALTSBU	UPPER SALTSBURG SANDSTON (OFTEN SHALY)  BAKERSTOWN COAL and LIRES MIDDLE and LOWER SALTS SANDSTONE (OFTEN SHALE WOODS RUN LIMESTONE or RED CLAYSTONE  GRAY SHALE WITH  PINE CREEK LIMESTONE  BUFFALO SANDSTONE  BUFFALO SANDSTONE  SHALE BRUSH CREEK COAL BRUSH CREEK CLAYSTONI UPPER MAHONING SAN  MAHONING COAL (ERRATION  LOWER MAHONING SANDSTONE  FREEPORT RIDER COAL SHALE UPPER FREEPORT COAL UNDERCLAY (SANDY AT BOT UPPER FREEPORT COAL LOWER FREEPOR

## MINING AND PHYSIOGRAPHY STUDY OF ALLEGHENY COUNTY

ALLEGHENY COUNTY PLANNING DEPARTMENT PITTSBURGH, PENNSYLVANIA PROJECT NO. PENNA P-155

## GENERALIZED GEOLOGIC SECTION ALLEGHENY COUNTY

THE PREPARATION OF THIS MAP WAS FINANCED IN PART THROUGH AN URBAN PLANNING GRANT FROM THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT UNDER THE PROVISIONS OF SECTION. 70:1 OF THE HOUSING ACT OF 1954, AS AMENDED, ADMINISTERED BY THE BUREAU OF COMMUNITY DEVELOPMENT, PENNSYLVANIA DEPARTMENT OF COMMUNITY AFAIRS.

IMAPS # 10286