THE M. A. HANNA COMPANY

CLEVELAND, OHIO

Mine Inspection Report

No. 480 File X

	Date Feb. 12, 1940			
MINE	MINING . Slope Mine Strip Mine			
Name No. 6	Shooting Permissible Liquid oxygen			
Location Carrier Mills, Saline County, Illino	Pick or machine mining Machine			
Postoffice " " " "	Hand or machine loading Machine			
Field Southern Illinois	Drift, slope or shaft Slope and strip			
Rate District Proposed rate to Chicago \$1.555	Handling (gravity, cage, monitors or conveyors) Conveyor			
Shipping Point Harrisburg, Ill.	Power (purchased or made) Purchased			
Telegraph Office	Haulage (steam, mule or electricity) Electricity for			
Telephone number Carrier Mills 93 R 2	slope; trucks for strip			
OUSTING NUMBER OF ST.	Number shifts worked (mine) 1			
COMPANY	Number shifts worked (tipple) 2			
Name Bankston Creek Collieries Company	Daily capacity, single shift No. 5 seam: 2500 tons			
General Office Chicago, Illinois	Daikkomanikudominabist No. 6 seam : 3000 tons			
THE COLUMN TO SERVICE AND THE COLUMN TO SERV	TIPLE (Maller Distance of the 100	٥١		
	TIPPLE (McNally-Pittsburgh, new in 193	0)		
President Frank H. Woods	Number loading tracks 7			
Vice President Henry Woods	Capacity, empties 125			
Secretary Frank Woods, Jr.	Capacity, loads 125			
Treasurer " " "	Number picking tables 1			
	Number loading booms 5			
OPERATING	Mixing Trough— Yes			
General Manager C. T. Hayden	Grades cleaned and reassembled Can clean all grades			
Superintendent Paul Halbersleben	then mix			
Shipping Clerk James Miller	Crusher— Have three crushers			
Prep. Mgr. : J. A. Bottomley		-roll		
SALES COMPANY	Capacity 200t.p.h 200t.p.h 15	0 t.p.h		
Name Sahaha Coal Company	Grades crushed lump 3x6 1	x3		
Sales Manager E. W. Broeckl	Screens—			
Postoffice Chicago, Ill.	Type of Shakers & vibrators			
Talaphonoskoukobek 59 East Van Buren Ave.	Size and shape of holes—			
	LUMP Over 6 step & round			
RAILROAD	EGG Over 3" round			
Name New York Central	STOVE Over 2" round			
Division Southern Illinois	NUT Over 12" round			
Branch •	PEA Over 1" round			
	SLACK Thru 1/2 millimeter Wedge-wir	e		
SEAM (Two seams are worked)	STOKER On 1 mm. & thru 3/8" Ty-r	od		
Name No. 5 and No. 6 (strip)	Domestic Mine Run— Not made	ou		
Elevation (above or below R.R.) No. 5: 140' below	Size and percentage of Slack removed.			
(See reverse side for average section; thickness,		Domoond		
location and nature of partings; thickness of	LUMP Plus 6"	Percent 7		
drawslate, if any; character of roof and floor.)		19		
0041	EGG 3x6	16		
COAL Character of High volatile	STOVE 2x3	13		
	NUT 1 x 2			
Structure #5 seam: medium; strip coal: soft	PEA $1x1\frac{1}{2}$	13		
Preparation Good	SECALORS 3/8 x 1"	12		
General Uses Steam, domestic	Produstness ½ millimeter x 3/8"	20		
Trade Name: No. 5 Seam : Sahaha	Oil, Vapor or Calcium Chloride Oil			
No. 6 Seam: Sahara #6	Grades treated All			
Mines producing coal of like character and quality:	unt encres coetot 1477, com coetot			
Peabody Coal Company, Harco, Illinois, number				
Blue Bird Coal Company, Carrier Mills, Illin	ois, Blue Bird No. 3 Mine; sales agen	t is		
Ender Coal & Coke Company, Chicago. The no.	5 seam is worked at the Blue Bird mi	ne,		

Sinclair Coal Company, Carrier Mills, Illinois, no. 5 seam, 2000 tons daily capacity, modern plant with washer, Delta Mine.

their daily output is 1500 tons, have a modern preparation plant with washer.

CLEANING PLANT (McNally-Pittsburgh) Hydro or Pneumatic Hydro Make 2 Jigs for the 0x3"; one jig for 3x6"				SHATTER TEST	SHATTER TEST		
				Size	Not made		
				Size stability per cent			
			p.h); 3x6"(15		Slack index		
	Resized See	other side			Authority		
		Dr	y Basis	1711 ,	AR.	Dry	
ANALYSES	MOISTURE	VOLATILE	CARBON	ASH	SULPHUR	BTU FUSION	
LUMP							
EGG	(2000)			30.		NOTETT HOME ME	
STOVE	6.6	36.7	54.3	9.0	2.7 12410,	13290 2100°	
NUT							
PEA			· · · · · · · · · · · · · · · · · · ·				
SLACK							
STOKER							
ROM							
			ois Bulletin			of the no. 5 seam	
AUTHORITY	county ave	rage (Sali:	ne County).		limestone &	& shale cove	1
No. 5 Seam AVERAGE SECTION OF SEAM				No. 6 Seam (strip Mine)			
Sha	le Roof (fair	.)		Ave	rage Overburden	35' (from 0 to 6	01)
						1) This is with a	
	An 1						
0	0" clean coal			5	5" dirty coal	- normality lands	
			7				
			ademO				
1100-					refeation .	.1 : .79 .75	1
		1.4.107					
На	ard fireclay h	ottom		S	oft clay bottom	and the same	
***	· · · · · · · · · · · · · · · · · · ·	0 0 0 444	*		or order booking		
		a sound	*				
		(Show total	thickness of Son	m. location r	nature and		

(Show total thickness of Seam; location, nature and thickness of impurities; character of roof and floor; nature and thickness of draw-slate, if any; character of top, middle and bottom coal.)

No analyses of the different grades were available at the mine office; GENERAL REMARKS: the coal from the strip mine (number six seam) will run 1% higher ash and .50% higher sulphur than the coal from the slope mine (number five seam). Coal from the two seams loaded separately : coal from the strip operation is run through the tipple on the day shift and that from the slope mine on the night shift. The strip coal is softer than that from the shope mine and has a higher moisture content. some of the strip coal that went through the tipple at the time of my visit was badly stained, the lump coal from the strip operation is crushed to minus 6"; screen lump coal from the # 5 seam only. They have an excellent preparation plant, the sizing and cleaning from both seams was okay. The dewatering screens are equipped with stainless steel wedge-wire with 2 millimeter openings, the thru material is pumped away from the tipple and is lost; the mm. x 3/8" size is dried after washing in a Christie Dryer (have three of these units, each with a capacity of 50 t.p.h.) that reduces the total moisture from 18% to 8%. In regard to the smaller sizes of the washed coal, there will be more of a fluctuation in the ash content from the strip mine than from the slope mine, this is due to the variation in the amount of reject material; reject at the tipple from the strip mine runs about 25%. The life of the slope mine is 40 years and of the strip mine 15 years. The cost of mining will run about the same for both mines; have a tough averburden at the strip mine which makes the shooting cost run high. Liquid oxygen is used in shooting the overburden, they have their own plant for making the liquid oxygen and they claim that the cost of shooting is about \(\frac{1}{2} \) what it would be if they did not have this plant.

C Berry