FILE NAME: Colonial Sugar Refinery (CSR)

DATE: 1962 Mar

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DOCUMENT DESCRIPTION: Govt Inspection Results with Tabulations of Dust Counts - Colonial Mines

(216)

Monthly Memorandum - Report March 1962

Continual firing in the mill holes is causing smoky conditions throughout the mine. Because of the sluggish air-flows through stopes, the smoke etc. is unable to be flushed out. The installation of air-water sprays at all bogger openings is to be recommended in an endeavour to eliminate the dust and smoke etc. created. The management's attention was drawn to Regulation 150 (1 and 2) of the Mines Regulation Act.

Colonial Mine:

Dust counts continue to be high although visually conditions appeared satisfactory. Temperatures of over 80° F. dry bulb are being recorded in the later workings but the wet bulb temperatures are some 2 - 4° F. lower in most cases but mostly around 10° F. lower.

The miners generally still seem loathe to correctly use the ventilating equipment installed as required by Regulation 152 of the Mines Regulation Act. For this reason two miners have been recommended for prosecution. Two other miners have also been recommended for prosecution for breaching Regulation 60 of the Mines Regulation Act. The management's attention was therefore drawn to the need of stricter supervision.

Work in isolating the upper and lower seams is almost complete. The total quantity of air passing through the mine at present is 112,000 cumins of which 66,500 cumins are ventilating the lower seam and 45,500 cumins ventilate the upper seam. Once the seams have been isolated the Richardson 60 A.F. axial flow fan on No. 5 level will be speeded up to full capacity and it is expected something in excess of 90,000 cumins will be passing through each seam.

A point of interest regarding the No. 5 level fan is that a bank of three air-water sprays were installed down-wind of the fan. Temperatures taken with the sprays off and on showed a drop of 10° F. dry bulb and a 4° F. increase wet bulb with the sprays on.

Much work has and still is being done in the treatment plant in an effort to combat the dust. Efforts are being concentrated on trapping the dust at its source and until this is successfull no dust collection unit outside can effectively keep the plant dust free. An experimental bag type filter is on the way for a trial and it is hoped this proves more successful than the present dust collection unit.

A separate report in greater detail has been submitte

Early in the month a miner at Edwards Shaft of Great Boulder Gold Mines Limited was allegedly affected by fumes whil working in a stope rise from No. 6 level. As this was the fi reported case of fuming in a stope rise we treated the matter with urgent alarm. Owing to untoward features in relation to this alleged accident, it was decided to take two samples of t air from this area. Once the results are to hand a comprehen sive report will be forwarded.

Attached, please find the tabulation of dust counts and temperatures recorded during the month.

DISTRICT INSPECTOR OF MINES
(Ventilation)

PLAINTIFF'S EXHIBIT 104720

TABULATION OF DUST COUNTS

DATE	MINE	PLACE	COUNT	TEMPERATURE DRY	TEMPERATURE WET	REMARKS
	[illegible]	[illegible]				
23.3.60.	Surface Plant.	No. 8 [illegible] Mine Transfer Chute	200			
	Colonial	Picking Station	290			6 men stationed here
		Cyclone Crusher	200			
		Fibre Separator	320			
		Crusher Switchboard.	130			
		No. 8 Screen Dry Level	260			
		Entrance to Mill No. 1 Loc.	[illegible]			
		Control Switchboard.	[illegible]			
		Ground Floor [illegible]	210			
		Bagging Station	500			

Warm sunny day with strong easterly wind.

[illegible] CHIEF OF MINES.

TABULATION OF DUST COUNTS

DATE	NAME AND TYPE OF MINE	PLACE	COUNT	TEMPERATURE DRY	TEMPERATURE WET	REMARKS
8.3.60.	Colonial	6 Level 62 FSW : tope : rive	1000+	81.5	70.5	Top drilling-16" DF. from Vol 60'/min-duct 150' from face-ambay. Thru air Vol 30'/min.
		" " 62N (tope D.F.	500	80.5	76	
		" " 63 FSW (tope D.F.	400	79	71.5	Boring-Thru air Vol 30'/min.
		" " 60 D.F. tope D.F.	450	80	73	Boring & Scraping-Thru air Vol 20'/min.
		4 Level 43 FSW tope D.F.	950	79	70.5	Scraping-Thru air Vol 10'/min.
		" " 41 FSW (tope D.F.	1000+	79	73	Scraping-16"DF. in manway-ambay.
		" " 42 FSE (tope D.F.	1000+	80	78	Scraping-Thru air neg. flow-ambay
		3 Level 3000(tope D.F.	800	77	73.5	Scraping-Thru air Vol 25'/min.
		(Note) All the above samples were taken during the first half of afternoon shift. (4-30 p.m. - 7-00 p.m.)				

TABULATION OF DUST COUNTS

M.D. 209

DATE	MINE	PLACE	COUNT	TEMPERATURE DRY	TEMPERATURE WET	REMARKS
21.3.62.	Colonial	Main Adit No. 2 Tranafer	500			Transfer operating.
		" " S/L loco chain feeder	600			Feeder "
		" " S/L Turnout	320			Belts moving.
		" " 2/L loco chain feeder	160			" "
		" " 2/L Turnout	130			" "
22.3.62.		Main Adit No. 2 Transfer.	370			Transfer operation for Half Aft/shift
		" " No. 2/L Turnout	410			Belts moving " " " shift
		" " No. 2/L loco chain loader	350			" " " " "

TABULATION OF DUST COUNTS

DATE	MINE	PLACE	COUNT	TEMPERATURE DRY	TEMPERATURE WET	REMARKS
21.3.62.	Colonial	No. 3 Adit Dalco N Level	150	03	71	Temp.idle (N/ shift-16° F. from Vol 40'/min.-about 20' from face-dirt dry.
		7 Level South Drive off No.3 Adit	270	00	71	Boring-16" , from Vol 10'/min.
		" " 79 N. Stope drive out	320	01.5	76	Scraping-16" F. from Vol 15'/min.
		" " 76 N. Stope drive out	330	C	76	Boring-16°F., from Vol. 15'/min.
		5 Level 51 N. E.S. Stope	700	70	74.5	Boring-16°F., under rope-adjacent to thru airway Vol 15'/min.
		" " 53. S. O.S. Stope	210	00	70	Scraping-Thru air Vol 30'/min
		" " 53 CROSS Stope O.S.	580	78	74	Boring-Thru air Vol 15'/min.
		4 Level 43 CROSS O.S. Stope	750	79	76	Boring-Thru air-neg. flow
		" " 43 S. O.S. Stope	110	80	77.5	Cleaning up-Thru air Vol 10'/min
22.3.62.		7 Level 71 N. Tunnel Line	170	01	60	Temp.idle (N/shift)-16°F. from Vol 200', air-delivery to face negligible.
		" " 51 N Stope	150	78	72	Boring-16° F. from Vol 60'/min along level
		" " 53 N Stope	470	00.5	73	Scraping-Thru air negligible flow.
		" " 53 North Stope	670	01.5	79	Boring-adjacent to thru airway Vol 30'/min.

TABULATION OF DUST COUNTS

DATE	MINE	PLACE	COUNT	TEMPERATURE DRY	TEMPERATURE WET	REMARKS
20,3,68,	Colonial	6 Level 6000 ft. N.E. Stope	870	70.2	72	Boring-adjacent to thru airway Vol 5Ft/min.
		" " 6000 breakthru to 9000 Stope	190	72.5	75.2	Mach. temp idle-thru air Vol 20'/min
		" " 62 raise N.E. Stope	920	81	70.2	Boring-dead pocket,no vent dust extended into stope from 16" BF. manway.
		" " 65 raise N.E. Stope	250	70	75	Boring-Thru air Vol 10'/min
		" " 68 raise N.E. Stope	360	00	72	Boring-Thru air Vol 5'/min.-dust from 10"BF. in manway extended towards face.
		" " 60 S N.E. Stope	160	82	66.5	Scraping-thru air Vol 70'/min
		" " 611 raise N.E. Stope	420	72	72.5	Boring-Thru air. reg. flow
		" " 611 S Stope N.E.	170	64.5	66.5	Scraping-adjacent to Thru airway Vol 100'/min-scraperman position.
		" " " " Stope raise South	1000	81.5	71.5	Scraping-dead pocket-no vent-dirt dry & dusty.
		" " 613 S Intake Face	110	81	72	Mach. temp. idle-Set. 16"BF. from S/L main intake Face.
21,3,68,		7 Level South Drive off North Adit	80	81	69	Temp. idle (N/Shift)-16"BF. from S/L main intake Face-Vent line Split.
		" " North Drive off North Adit.	70	81	77.5	Temp. idle (N/Shift)-16"BF. from S/L main intake Face-Vent line split-duct damaged @ 40' from face-delivery poor.
		Main Adit. below 7 Level	410	80.5	74.5	Prop. to Face-16" BF. from Vol 20' /min-dirt dry-vent.dust was extended & dirt watered down before work was continued.

TABULATION OF DUST COUNTS

DATE	MINE	PLACE	COUNT	TEMPERATURE DRY	TEMPERATURE WET	REMARKS
19.3.62.	Colonial	2 Level 2000 E&W L.O. Stope	560	70.5	70.5	Scraping-Thru air Vol. 5Ft./min.
		3 " 32 L. L.O. Stope	370	00	7?	Prop to bore-100ft. from duct. 10"
						F. on an oval- set extended to within 15ft of working face.
		3 " 38 E&W L.O. Stope	360	70.5	72.5	Prop. to bore-Thru air Vol 70Ft/min
		4 " 42 N L.O. Stope	500	7	70.5	Scraping-adjacent to thru air Vol 10Ft./min.
		4 " 41 E & W L.O. Stope	1000+	77.5	74	Boring-00ft from duct 10" E.P. on level-duct extended closer working face.
		4 " 41 O L.O. Stope	200	77	74.5	Boring-Thru air Vol 10'/min.
		" " 41 O. L.O. Stope	520	79	68	Scraping-Thru air Vol 70'/min
		" " 40 O. L.O. Stope	180	79	70	Scraping-Thruair Vol 30'/min.
		" " 41 N&W L.O. Stope	470	79.5	76.5	Boring-Thru air-negligible flow
		" " 42 N&W L.O. Stope	370	81	79	Boring-Thru air-negligible flow-duct extended to working face from 10"F
		" " 42 N&W L.O. Stope	340	81	79	Boring-Thru air-poor velocity.
		" " 43 N&W L.O. Stope Drive	220	80	74	Boring-00' from duct 16" E.P. on level.
20.3.62.		6 Level 62N U.S. Stope	340	00.5	72	Scraping-Thruair Vol-60'/min
		" " 62 N&S U.S. Stope	300	81.5	78	Prop. to bore-dead pocket-no vent duct extended into stope from 16" E.P. on level.
		" " 61 N&W. U.S. Stope	530	00	77	Scraping-Thru air Vol 5'/min powood tailcone position.
		" " 61 N U.S. Stope	630	79.5	76.5	Boring-Thru air-Vol 40'/min
		" " 61 N&S U.S. Stope	340	00	76.5	Boring-Thru air-Vol 40'/min
		" " 6000 U.S. Stope	200	83.5	71.5	Scraping-Thru air Vol 50'/min.