A3424/B1.43.1-3

A

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AFRIKANERS



A - Z (203 x 127mm)

JD 1430



Review of interactive for. — Afrikanis!

If the figures of the Medical Com! To be helicized

ie leight of this in hand vock wines to called disease is to years. Not since 1907 shille

32/0 S.A born and not have contracted disease since

1907. early or moderate filtrosis. class II =

+ another 4 years or smeather less 100

eta class III

10 12 years before incapitaled as death.

UG 19, 15 1912 pp. 15-18, pars. 30 - 15.45.

class I

B

marv-o-dex

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don't know with more importable.

don't know with more importable.

don't know with more importable. (It E., v. 244, File 107H., S. gennings to H.E. 9 Oct. 1906. - NE Curinian No 23, 1906 of Cof Mines report) gives list of atomises: Beattres; Mc Adams, Star & Climax tack rock-driller uses one or other . Managers report that it is nec. to have supply of dean water at each level to make sprays work well + continuously. They also report that miners districe sprays. Their use adds to their work. Boys who work at church raiso spainer beys chyeci to use of sprays. Wet clobes - spray in rise. In 3 of our mines the pump column has been trapped & papers on centain levels lead to working faces. Small hones with fine nozzle used to force water into the hole being drilled or onto proken ground. This more expensive in first cost. But them spray is not subjected to save objection I waking atmosphere damp and no air used with water

Sampan Asindre, 282 Nove

As much touble as sprays a just as hable to objection to by miners if not preparly locked after pumps liable to let water into bottom of mine

Many nancigers report-miners claim springs lead to asthma, brownints, preminence. No figures to prove or disprove

day, warmone. Therefore they asculse to the former defects it may or not possess

" leads to chance; more a less dent laden atmosphere
" " adamp laden atmosphere
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we know dust - leaden injurious to health: Insufficent Knowledge as to whether a damp atmosphere upg is a not my virious to health.

I think - [int] must alway dust - but with as little in convenence to miner from damp ness as pass.

Best way as by training miner in spraying apparatus we have If any universally necessarily necessarily mere improvement is made - we can adopt it

Philhusis & Precautions VS. T.M.A's Objections 1906 to Col. Sec.

[H.E., v. 258, File 154M., T.J. Britten to Per Ex. Ch.d.
Mines, 18 June 1906.]

petition conde as methods now bing adopted- remedy worse than disea e itself 'mi ers are now simply confronted with a choice of evils' either old conditions with dread of M.P. or adopt precaustons which are said so mer or later to ensure pneumonia - atmosphere saturated with moisture..

[H.E. vol 244 File 107 H, 5. Jennies to H.E. 9 oct 1906] re Cenarlar No 23 1906 of C. of Mines

gives list of atomisers: ExtBeatties, McAdams, Star and Climax.

Each rockariller uses one of oth r. Manag rs report that it is nec to have supply of clean water at ecah levelto make sprays work will and continuously

They also report miners dislke sprays Their use adds to work boys who work at chuck, a or spanner boys object to use of sprays. Wet clothes—spray in rise.

In 3 of our mines the pump cloumn has been trapped and pipes on certian levels led to workin gfaces. Small hoses with fine nozzle used to force water into the hole being arilled or onto broken ground.

This more expensive in first wost. But then spray is not subjected to same objection of making atmosphere damp as no air pressure used with water.

As much trouble as sprays and just as liable to objection to by miners - if/property looked after pumps liable to let water into bottom of mine many managers report - miners claim sprays lead to asthma, bronchitis, pneumonia. No figures to prove or disprove.

not

To most men a moist clammy mining atmosphere more disagreeable than dry, warm one.

Therefore they ascribe to former defects it may or may not possess.

Therefore leads to choice: more or less dust laden atmosphere

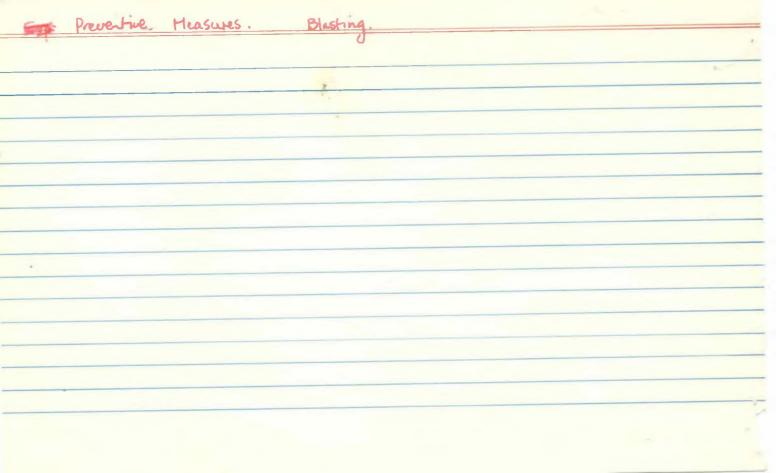
n n n damp n

We know dust-laden injurious to healsth. Inufficient knowledge as to whether a damp atmosphere Underground is or not injurious to health.

I think must ally dust - but with as little inconvenience to miner from dampness as poss.

Best way is by training miner in use of spraying apparatus we have. If any universally recognised improvement is made- we can adopt it

Henorardom - Webber goes that it pt. by point -THA 1906. HE VOI 286 file 240V Webster to me Reyesbach - 2nd July 1906. BRA GE Webber



Memo. for Mr. R versbach.

re Grievances of Transvaal Miners' Association against Mining Companies for alleged unhealthy mine conditions.

With reference to certain complaints made by the Transvaal Miners' Association to the Commissioner of Mines in May last, I beg to advise as follows, dealing with the complaints in the order presented:-

1. Atomisers.

The use of atomisers for alleying dust and dynamite fumes is not carried out to the fullest extent, in fact comparatively little use is made of them in the mines of this Group, as, although the Companies are provided with various devices for this purpose, we have found it next to impossible to get our men to use them. Their excuse is that the dampening of the air is more serious to them than the inhalation of the dust and fumes. Personally I believe much benefit would be derived if the use of dust allaying devices were made more compulsory, as, although the air may be moistened to some extent, I have never heard of any serious illness arising from this cause at any of the mines where the atomiser has been in use.

2. Want of adequate ventilation, and non-enforcement of the law regulating mine ventilation.

The grievance of want of adequate ventilation in the mines is, I think, exaggerated, as in my opinion the ventilation of the mine workings of the Rand is much superior to that of

Ge Webster to Mr Rayersbath. BRA, HE, vol 286, File 240V (ard 1.

ventilation of the Rand Mines does not of course mean that there is no cause for complaint; on the contrary, we know that in certain parts of a mine the air circulation is greatly restricted, but these are places undergoing connection, boundary stopes, etc., which, as every miner knows, it is almost next to impossible to thoroughly ventilate without an elaborate system of artificial ventilation, which is seldom justified in putting in on account of the limited time and work done in these places. The next best thing for such places is the use of compressed air drills entirely, and so far as our own Group is concerned this is observed pretty generally.

Another complaint is the carrying on of development faces by hand, which, in the absence of enforced ventilation, is very unhealthy, as the fumes die away at the spot and vitiate the air. In the mines of this Group very little hand work is done in this respect as it is generally the custom to use rock drills in this class of work.

Speaking of the milling Companies of our broup, all of them have two or more shafts, and regular Level connections between same. In the cases of the Coldenhuis, Jumpert, Grown and Durban Deeps, increased ventilation is had by reason of connections with the adjoining Companies. At the Neurse Mines the ventilation is the best, as through the amalgamation with the old Henry Neurse Company, connection is had with the surface at several points through old shafts and workings.

The compressing of air in badly ventilated engine rooms, and the use of inferior oils in air cylinders, are sources of legitimate complaint, and the question of remodying these evils should be taken in hand at once.

I do not think the complaint of poor ventilation due to the prevalence of certain winds and atmospheric conditions

should be considered a just grievance against mining
Companies, as after all it is a condition that does not often
occur and then, so far as I have observed, not to an extent to
cause serious disturbance to the natural underground
ventilation.

The Government mining regulations deal with the question of ventilation, and I think the line Inspectors can be relied upon to use their discretion in enforcing the law: they have the authority to enforce the withdrawal of workmen from any place where in their opinion the air is not sufficiently healthy for persons to work in.

3. Change Houses.

The absence of suitable Change Houses is certainly to be deplored, as I believe every mine should be equipped with a properly constructed place for the convenience of the miners when issuing from underground. In this respect all of our mines are very well off.

4 E. Webher.

General Hanager.

- baleral - still car 1969 Philips Pricates VS - Vertilation - bod - effective CBRA H. E Vol. 286 File 240V meno called Vantilatrai No 32. by HJ. Marlin 24/5/09 natural Connections with outcrop leadings out Suggestiers pratries des anding air lost. in a volume. SLEERPM. - what's done let more id be dere. no Phitimis assure

EHE, K/258, File 154 M. 18 June 1906 T.J. Brillen to Pres. Exec. Ch. of Mires, 18 June 1906.)

Volang letter and application of devices not devices
gives earder ce of men using it
no saturation of atmosphere.
Improvements.

The responsibility now rests who the named when once he has been provided with a dust allaying device It is a responsibility which not are names in a 100 is capable of appreciating to in my opinion, no good results can be achieved unless he to relieved of that responsibility which is essentially one that he manager of the name and personally undertake

Save to-day as attached my attention 7 years ago - heavy

Blasting: Chapter X. 97- conficate.

90- assistace & rehable white or colonged

pensons when acting under his supervision.

Coloured person = Africai ~ Asiatric native or any other coloured purson.

Centificate for Engine Drevers chapt. XII. (104)

winding eigine - taising + lowering persons Conficate of comptening

no colored person. may told an engine diver's certificate of

best & most regular warkers most frequent victions - 4 it is at least poss that to this cause may be attributed the defendation in this class of white labour which so saddy hampers the industry to day, while it is not to he expected their the prevalence of a dangerous of often fatal disease can prove an additional attractor to labour of any kind, whether white, black or yellow. includes testimonial of T. H heggett of 23 Aug 1906 dest spray sound, practical referent in combacting Eastern Mine at the vertical short no connection with other orive warkings as yet frees for dust & air to be better then in any similar deep level Rand fre visited.

Britten + THA Petition to Col. Sec. 1 Death from HP. or Pneumonia. Hims and reading Jone 1908.

Himers methicient in using devices a careless: BLAME. Deputs his spray.

(BRA, HE 258, File 154 M, T.J. Britten to Pres. Exec. C. & Minos, 18 June 1906)

Constitution of Marketina constitution constitution of Marketina constitution co

Decision concerns nothers now being alleged - news, wares then disease their "Hiners are now eithout about onto a charge of paris' - *. there are constituted with a charge of parish are said according to the control of the control

whats or literand to the prior amonder actical authorities as to orincially by the following the sector orincially by the following the sector of M.P. is the contract of M.P. is bounded to the report of M.P. is bounded to the contract of the sector of the contract of th

TV own personal observation developments Commission oppointed.

Numr of evidence addition subsequently alters my pointen - so itong as dust to a include a scounde.

In spice of additional and of motor and damphess miners are completely of.

At recessitates was a water out not in sufficient quanties to be

See ovidens of: J.S. Land (Par 1035) .T.F.Rosser (Par 1035) .van Lewis (sar 1148) .David Jones (par 1188)

All nanimous that bust lan be to a great extent avoided by use of water.

None complain of atmosphere being undly saturated.

All say improvement in their health which tollowed application of sprays.

elso made use of an atomiser - 1 invented it - deep level portion of Wolhuter - beneficial results. - atmosphere dieaar of dust - and ventilation only improved (see enclosed copy of Mr Ledgett's report) - no complaints from not successful of improved condition. It did not simply were acomisers to miners with instructions on how to use them. Mnay were scentical - ridiculed idea "nuisance" - [made it my business because of their distaste for innovation to be careful in supervision - and prove efficiency to one or two 'picked' men. In these cases presudice overcome.

- I realised hacessary to appoint a man whose durity it was to attend to the sample to the sample of sprays throughout whole mine. This man was directly responsible to the uderground foreman.

tentain amount of a tra appropriate - yes - but quitified by results. health and increased efficiency of its "white labour" more than compensates
a small increase in working costs.

Their petition this hadiv seems possible

The the fra pulvering from the lessance, on their own dark, bt also to be accolutely fair, because they are expected to perform duties of which exteriors show them to be totally incapable.

The responsibility nowhere with the miner when once he has peen to month the miner which not one there is a responsibility which not one there is a hundred in capable of appropriation, and, in my obtain, no good there is a capable of appropriation of the resconsibility which results can be achieved outly no large lesved of the mine about peed in a resentially one which the manager of the mine about peed in undertake.

Same today as attracted my attention seven years ado then and how heavy mortality among rockdrillers.

Rest and most recular victims and the most treducht littims and if is a least possible that to this course may be attributed the deterioration in this class of white isomor which so table hambers the industry today while this class of white isomor which so table hambers the industry today while it is not to be expected that the prevalence of a dangerous and often tatal disease can prove an additional attraction to labour of any kind, whether white, black or velice.

T.H.Leddett's testimonial: 23 August 1706

Dist spray is sound practical efficient towards combattingM.P. Your
Elstern Mine at the vertical shaft - no connection with other mine workings

Elstern Mine at the vertical shaft - no connection with other mine workings

mine on Kand ('ve visited

BROWNE R.E

The day s pay machine man receives 25s., and is a poor worker as a rule.

The above accounts indicate that if an adequate supply of efficient white labour was available at a cost of 25s. per shift, the net result would be an immediate reduction of 25 per cent. in the cost of machine stoping without further change in the system of work

The above is an extreme instance of high cost of supervision. In other branches of the work, the cost, though still high, is much less in proportion. In hand-drill stoping one white man directs

25 or 30 Kaffirs.

There is much discussion on the Rand, and opinion is divided, concerning the relative economy of machine and hand stoping. The accounts do not show much difference under existing conditions. But with reasonable efficiency and less costly supervision, machine stoping would be incomparably chapter. There are cases where, owing to narrow width of reef, better value is obtained by narrow stoping by hand, but in the avarage case it will eventually be found that the Rand rock is much too hard for economical hand drilling even by Kaffirs.

Compared with the California mines, the Rand mines employed (in 1904) about three times the number of men, white and coloured, per ton of ore milled. But this is not a fair comparison since it includes the men engaged in sorting and in workshops, which are not represented in the California mine, where there is no sorting and where much of the repair work is sent to custom shops in the neighbouring towns. But making due allowance for all these matters, the Rand Mines, Ltd. employed, during the period considered, 2.5 times the number of men per "comparison ton" of ore. At the present time, since resorting to hand stoping with Chinese labour, they employ four times the number. And in this connection it must be further borne in mind that the Rand mine is operating with two to four times the stamping capacity. The inefficient use made of the labour is apparent even to the superficial observer.

1907

Working Costs - Reduction of NB. to all parties - Browns 1406.

To share horders doutsling durdends

owners of undeveloped properties a great increase of present value.

To commute at large it means a great increase in the output

and a rapid rise in prospenty.

Browne, p. 296.

To the Shareholders of the operating properties hunes it means cloubling the dividends

To the owners of undereloped properties it means a great increase of present value

To the commuly at large it means or great increase in the output and rapid rise in prosperty".

Frazer + greves p. 164, h. Phillips to Hesses. Wember, Beit + 60, 18 gue

In season and out of season we are pressing the working cost and efficiency question with our own managers, without inviting any public discussion upon the Ross Browne lines yet. I have dealt with the seons for delay in taking action on that accounts of fully already that it is not necessary to traverse the ground again today, and I only touch this question to some extent in order to post you as to what is being done, and to show you that we are very fully alive to the necessity for doing everything that can decrease the costs and bring up the profits.

I shall be heartily thankful when the Constitution comes out and our elections are over, as then we shall be able to push the work in the way it ought to be pushed, without bothering ourselves much about 164 effect for a pointed point of view.

Policy - no wage Reduction - Ress Browne - April 1906. cf. There. Wenter Phillips.

BRA, HE, v. 145, F. Eckstein to L. Phillips, 20 April 1906.

Ross Browne has just finished his report and I enclose copy for your lead. I have only glanced at it so far, but it gives me the impression, that it is written on such broad lines, that it could be read now before a scientific body, without inciting the teeling of the white men. Of course of the white labour on the kind that is where the rub comes in. I have naturally not forgotten the policy and down in Beit's room viz not to go anything until your elections are over. On the other hand there appeared in the Times of last Saturday a telegram from Johannesburg giving an account of shift. Agitation for this will certainly grow and will no doubt eventually have to be conceded as an eight hours day work is the tendency all over the world. Now could this not be used in conjunction with Ross Brown 5 report.

Pleas think this over carefully & let us have a cable after a time, whether you advise us sticking to the policy laid down of doing nothing for the present, or whether you would advocate publication of Ross Browne's

Phthisis a Strikes	1902 -	V. Mage	Main Rec	4.	
see Wood John	\\ .	THA	deputation	to Milner	ĵ
)					1
1					î

Whites: Inefficiency of - Phillips Opinion

See also General Box - Unskilled whites.

(Fraser & Jeeves P. Ho3)

(L. Phillips to wandow Best also 18 June (406)

Employing Dutch.

Small schoole

[Ibid, p. 169]
Philips to f. Eckstern 13 April 1408)

Opinion unchanged - reduce Nos of highly paid - working ods solved + get no value from New New New respond to appeals of gort about should, sens - salud + unbilled - specific 1575 ONLY early - do + stid early

Leave country at your rate of senses at 7/6 at 105.

Efficiencey - Agreed Ross E. Browne - dynamite - Musis set effect.

grey The development of the gold mining industry (1902-19) 260

Constructive criticism of the efficiency of labour on the Witwatersrand mines was given by a visiting American engineer, Ross E. Browne, who had occasion to collect information on the subject of working costs during a stay of twenty months, 1904-5, on the Witwatersrand. He found that the prevailing high wages of whites on the mines were, partly, due to the high cost of living. The consequent high working costs were aggravated by the inefficiency of the white miners. In one investigation ten out of

seventy contractors were pointed out as efficient miners. The work of the ten men was followed through a number of stopes, and showed 27 per cent. greater efficiency than the work of the sixty. The explosives consumed per ton of rock by the ten was seventeen per cent. less than by the sixty. The ten men received in wages R4.00 per shift, against R2.80 for the sixty men. 12) In other words, although the inefficient worker received

thirty per cent. less pay, he used seventeen per cent.

more explosives - a very expensive item. Furthermore,
in the general execution of his work he was twenty
seven per cent. less efficient. Thus working costs
were, indeed, increased to a greater extent by inefficiency than by the high wages.

Civey The development of the gold mining industry (1902-10) p261

Ross Browne praised the engineers for their methods of prospecting, testing and developing the reefs, and for the character of the works - the machinery, buildings and appliances. But he thought that the engineer had failed in his handling of the labour, because the underground labour, especially, was deplorably inefficient. 14) This view was confirmed by the Government Mining Engineer when he explained the high accident rate at that time, 1905: "Our so-called skilled white miner leaves a great deal to be desired as regards general and satisfactory mining knowledge. 15) Inefficiency of System- for- Ross Brown see

Efficiency Drive.

Wase Reductions — TG 2, 1908, D. 687, Ste

Wage Reductions - TG 2, 1908, p. 687, Statuert of F. Crean.

Phthisis & Precautions Vs - Blasting . - Sh Inil to 8 hours.



marv-o-dex

ref-verw E Z 85



Crown Road Corner House

Tropical Africans - see under Wark of - Gorgas etc.

THE STAR

THYPS OCTIL 1906 Rg

MINERS AT THE CHOWN PGCP (Rga) FIRE STAP THE FRANKVAIL THURS OUT 11 1906]

We shalosland that the so called Jisfule Jehuran ele monagement o ple menes of the cour Dot has been salesfactory pettled a funeal Impression Escists itel ele maragement was enderousing to fire the meres to work three work doll machines encland of two & elat ele prevers reserbed whis coerse, This is lowerer on antitalinely incorrect version. The actuall facts are that at the legennery of this month elemeners were given the often of survey three machines and for mer at once agreed to do so. a few days later, four more mon - matering sight in all were survey whose machines. no preserve whatever was longer to lear by the management on the men and the meron anded pleaselves of the offer because the rate of tay for fathom was not reduced, and they we thes at let abled to som considerably

(2)

hote wage the lefere. In all cases where one per was sufarring close machines the wet was lakings place in the well weahlated Lotes so that the entra machine coulder pre acoust living about the whities enjurous in health. The iten elet the guing of the the street smocking to - man with their other roll dall men out of work is promoved, but the male enomial it is to do to work machine Irello be greater weather with be used, and the mes mines will be at work. The everage of men will mereguer, not be leveled to it mening class only leaves if a lorger number of Soils are need ment rock will be Iraken & she mire will consequence, be soabled to work a a larger scale and No enthy a greater munder at bands in army department, as is well brown, three dolls are now leng sufered by one mor or so a very long

menter of meres on stone fields and we renderded ghat in all cases the more for later to this volvalouty, I have somet considerally begter longer shorty a to for as Gens Det is concret - gille that the mer were quite polisfied rentil de Miras Union slefted no persented clan from running much chan sap two doubs. The orgunere week by el miners Union is that are mor is physically rerable to performine a longe number stan tro Julo fact night the may at Gown & best keelet not to men more than how machines and the matter rest here at presone It will we rendestand. continue appearal for the men to three mochra should they done for do so.

3

of Mines on those felds, and we rendershard that in all cases who men has laborated this voluntarily, and sarred considerably higher wages whereby

at the men were quit salisfied rented the Mine almon slefted in and portualed when from running near about two drolls. The argument seed by the mines thou has been foot one men is physically weakly would to withen foot night ato men at the Evern. I desided not to run more when how machines and the maller west here at present. It will we renderlant certains afterial for the operate three mechanis should they desire to do so.

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