VICTORIA, TO WIT.

* Christian and Surname in full.

This Deponent* Thomas Joseph Hewitt

on his oath saith, I am a Bricklayer residing at Dana Street Ballarat

I have had 50 years experience in mining. I resided on

Bunker's Hill for I2½ years. I went on the Hill 9th. May

I862. I have worked in various mines in Ballarat, before

and after I went there. I produce a letter written by me

I have given attention to the water question and the natural

law that should govern mining and does not. Speaking of the

District there has been a question as to whichhway a lead

Lywrott

trends. On this, Hall one witness told you distinctly

that he could not tell as to the trend in consequence of the

W2D

Ex. "V"

reason he could not tell was simply because of the leads
emptying into an estuary or a lake formation in the bed reef
matter. This water is fed from the earth's centre, and due
to magnetic currents. There is the natural law as the
result of these currents, these currents jein are generally
electricity and upheave the earth and that is one of the phases
that is something similar to Montepello, now in a state of
eruption and that his exceedingly volcanic, as to form a lake
and from that no outlets is formed in a sort of bye-w ash
running over the high sides and these connections are in chain
connections or minature lakes, something like what you have
seen in the head of a creek, what they call a chain of water-

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Taken and Sworn before the theill drop on this applace between. The black clay runs

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It is impossible to trace any lead from that, because

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It over arches and at is a matter of down to the bed reef. conjecture if you put a bore down you will have it. Bunker's Hill there has been a discharge of matter through the earth from electric fluid heat and that causes the disehar We have the other matter called hydrothermal heat. charge. My object in coming here was to see that mining was reduced to law rule and porder to guide it, not as has been stated here as a subject of chance. I have drawn plan produced. My idea is that an arch would represent the bottom of a rock that would form the trend of the alluvial water current. These people have been working on a lead where they have had this current to contend with. They have been working on a went different lead, to what they wanted to look for. They went to look for a lead from Bunker's Hill and they got to the As they went to the East the gutter rose. Medway lead. Munkers it were coming from A hill it would have naturally deepened. They have met the ground joinging the leads, though they have been working formally. There is a saying "high and dry on the reef". He has to stay in a position where he does not get the rock water over-lying at the leads, there are the clay portions deeper if you found and outcrop at the surface. If you come away centrally from the 2 outcrops, you will find it in the centre off the gutter and you will find perhaps IO or II feet of clay before you get the rocks. That rock will

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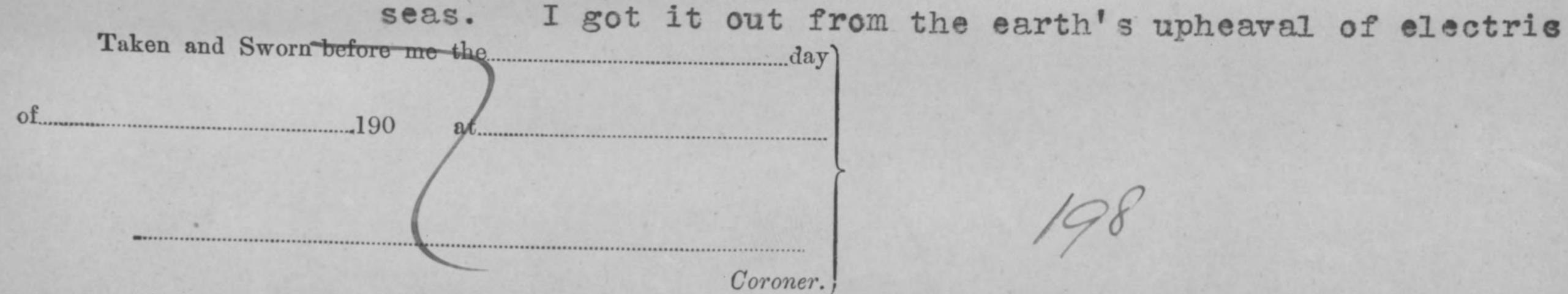
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come down and you will come to the centre at the deepest

The stream running is immediately over the agutter stream, that is, because where 2 are united it causes the clay to run out and gravel comes in and in driving u nder-neath causes the play to deflect into the workings. As fa as regards the under-weight it is simply due to the water running over the surface of the rock and naturally causes the earth to drop away from the surface of the rock that adds to the weight of the timber. What has been called a swelling of the timber is a head weight which forces the props into nature the reef. The end of the bed reefs is the soft bed reefs. They take it to be a swelling of the reef, that is the I say they could use sole pieces, wherever I have pressure. been connected with ground like that we used sole pieces. As to the plan marked blue, it is supposed to be earth bed reefs showing the course of the rock current and the course of the bed reef current, one immediately over the ot her they unite wherever the clays wear out and the gravel comess in If you drive in, you get air and that air causes deflection of the other current.

E x. "W." Plan put in.

I say it is an estuary or lake in the form of bed reef matter. It is fed from the earth's centre from the magnetic



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currents natural law. I find that all alluvial lod es

come from the breaks in quartz leads, that is the reason I suggested to the Department of the survey of the Indicator. When they had that survey done, I then wrote to them to have every line of reef laid off in parallel order to show theit continuity in respect of the line, and the benefit of it was course it feeds the lead that the lead running cross way, it fills the bed on its course. If it crosses the erich lead it becomes rich and if it crosses a barren one it gets poorer. The object was to show that the lines lay in parallel lodes. The lead runs This is where the upheaval occurs and on a cross course. you have the conclusion that the clay coming from the crosscut comes from either North or South from this lead. There is only one exception to that rule, that is that it may have come from the lode to the East and wash on its coursee and lodge on the other lode. I suggest certain surveys should be made in connection with the Cardigan to show the central line of reef of that District. I take it to be the same reef that Judd and Law worked on. From the central line both at Smythesdale and Ballarat all the leads trend out westward. That is no chance work, that is natural law. I have written to the Department on the question of surveys. I want a survey made from Judd's and Law's claim to the

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Bunker's Hill school immediately adjoining the Cardigan claim to show that it is on the same lode and show the connection with it and the margin of the rock.

Cross-examined.

on

I do not know that I am a scientist. I am a man given to reflect on the causes of things. I have reflected on the cause of this disaster. It is the unity of dual currents. I arrived at the conclusion that they struck some new currents there is also a gravel connection. I say you will find a 100 10t of gravel about a new lead. I have heard of swelling of the ground, I cannot tell what it is caused by, I know it is a fact. I said I do not consider that it was the earth's swelling simply the pressure overhead forcing the legs into the soft reef. It would not surprise me to hear of it, having not studied it out in its logical gensequence. I do not claim to be infallible. I maintain that in business with brains sufficient to carry it on, is business with method and I mean by law, rule and order, the natural law that is rule in the earth. I did not go to the mine to form any infallible opinions. I have my own opinions about mines, as to the

rule, law and order. There is a lot of leads in Ballarat and that there is not one of them but starts but would come to the Sebastopol plateau, that is my reason for working outz as a

Taken and Sworn before me the every lead joins the Sebastopol plateau. Coroner.

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To the Jury - I have worked on other leads besides these. From its flow it formed a chain of water holes. It is impossible to determine any trend There is no worse ground in the Colony than Bunker's Hill requires face boards.

To the Coroner - It is 2 and a half years since I worked in mining My experience has been also in quartz. The same theory holds good there All the alluvial trends come from the breaks of the quartz lodes I have never workd in the Cardigan mine. I know the ground. I have been on the ground several times since 1874. I have seen the stuff that id brought to the surface. It is the same as on the top of t the hill. I saw boulders on the top of the hill and I was one that extended three sets? I know the All England I found simply a chain of water holes. We sank a rise and then put up another one. The ground was something similar to-thewhat they got on the Mædway Lead. The Cardigan ground is much the same as the All England as far as regards the nature of the wash The black clay runs down on to the reef in certain places there is water holes In that water hole there is the wash the black clay runs on the top of the wash. The All England was not bad ground to work. The Cardigan was much the same that would not be bad ground. What they got in the burst is different altogether. The inburst of water would indicate to me that there was danger overhead I should like look upon that water running down the rock causing the dirt to separate from the rock and coming as a dead weight on the timber Under these circumstances it could be worked in safety according as how they worked it. They

guster till I got a certain distance and put in drives right and left Taken and Sworn before me the Coroner.

were driving from the shaft and they were going on as far as I under-

stand the gutter was rising. I should drive along the centre of the

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the ground back and when I got a certain distance out I should cross the timber so as to check the other ground where it broke away. Where ground breaks away the other follows like a pagk -of cards. It appears that this ground was taken out indiscrim-inately I would not have done it the way they were doing it I should take the increase of water as my signal of danger. I should have withdrawn the men from the place and opened out the shaft and drove to the top of the balance shaft. It would involve an expense of £150 and and from their not doing it they have lost the mens lives by doing that they have to come back about fights to and put in two beams and ease the strain of the water off the head

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Re - examined -

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I would take the presence of water as an indication of danger always

I never heard that that blocked ground comes down It is almost invariably filled-with-water I consider that the men had struck a new gutter. I considered the water came from the rock. From the unity of dual currents. The water was considered with the new gutter

Q. Do you consider the water came from a new gutter?

A. Not the whole of it some portion of it came. It was intermingled I would cannot tell what amount came from it.

There are two currents The rock water and the bar reef water and any water that comes from the reef comes from the current There is a current of water in the lake and that runs in the depth of the rock and it runs immediately over the alluvial lead current

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- Q. There was no evidence of any water coming from overhead at all?
- A. The water did come from overhead There was a witness that told you distinctly that he drove out of the black clay and into the gravel and came to the quartz boulders that shows that the margin of the line is distinct The action is from the margin to the rock The rocks met again the gravelly portion They did not want any horse there at all because they had no business to take the ground out they worked there three weeks after they should not have taken it out. I base that opinion on my experience in mining.
- A. It depends on the weight overhead In the All England I never saw any that would come down. There is not a man that could work it and bring it down Our workings were 1200 feet from the Cardigan ground If men worked ground out it must be wash ground with gold in it. I last worked in a mine on -- Sovereign Hill I was Manager of a mine and director I worked for three years and a half I was manager of the Albion on Inkerman in Drummond Street There were about 36 men working in it That is about 35 years ago There is no change in mining since that time

To Mr Barrett - They ought to have knocked off three weeks before they did

I say that simply as to my knowledge of natural law. They had

all the rocks to contend with.

all England

To the Jury - No man could bring the gound down in the Inkerman If you were in the grund and found no gold and no wash you would not work

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There was not sufficient ground worked out to cause a fall. There was a chain of waterholes. Ground of that description would not be likely to fall down because you have one hole and another 100 feet away. The worst ground I ever saw was in that district. The All England Cardigan were good for working in I was alluding to the Bunkers Hill. The ground that had very bad ground was the Excell and Evening Star I-happe

happened to be there 35 years ago. I wrote f to the Department take to show the survey from the margin of the reef from the claim to show from 1, 2, and 3, rises as to the margin of the lake, Ex "X" Mr Barrett puts in newspapers with reports since the disaster "Courier" "Star" and "Echo"

Mr Clarke objects as to them being any evidence

One witness was asked as to what it was stated in the papers so they may go in.

Adjourned to Thursday 10th July

Taken and Sv	orn before me the seventh day
of July	1902 at Ballarat
	2006
	PM Coroner.)

Thomas Joseph Hewitt.

VICTORIA, TO WIT.

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This Deponent* Robe	rt Ford Brijant	
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residing at Gregory Stre	t Ballarat	

I have had close on forty years experience in Mining that time it has been particularly alluvial mining. been manager or assistant manager for 27 years. I recollect the Gold Mining Commission in 1888 I was specially appointed by the Governor in Council of the Mining Industry on that commission. There three specially appointed I was one Mr Burton and Mr Crawfield were the others I am chairman of several Companies. Nearly all the time that Skewes was Manager and a ltttle after Noble took charge I was appointed wisiting Director and visited the mine occasionally: The first time I had had anything to do with it I went to look because Mr Mr Shaw had a mortgage on the plant I recommended them to test cut out the high ground and there were boulders where the wash was found gongnest and the rise was put up to the wash In the same channel there is a channel 30 feet higher than the other channel We found more vegetable matter and lignite wood in the gutter than there is in the upper one there is very little of what is called the pliocene wash. When we blocked out there was a little water in the drive and we met the north-western- Northern extremity on where we worked from the jump up In blocking out there was a little water coming out I strongly recommended them to open out to the West side of the shaft from the No 1 ruse East. And further advised them to test the ground to prove the junction of the higher wash with the other and the work stopped at the Old No 1 from the balance shaft. It was left and they decided to put the drive in from the North reef drive from the east to the shaft to test the deeper channel from there

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and the workings were never connected while I was there. The point about 50 feet South West of the balance shaft is where we reached finality. There was the other made by tributors to further test it south west and I only heard that they mermediate arranged with the tributors to-pay put that drive in I ceased to have anything to do with it about four or five months after Skewes left That would be about 1901 in the commencement of the year. Since the disaster I was requested to examine the mine as an expert on behalf of the Rampany Crown. and helped to make the survey that Mr Baragwanathalso assisted in. I inspected the underground workings as far as I could with Mr Baragwanath and assisted in surveying the main shaft Everything we could survey we did The survey was made on the 29th May 1902 I visited the mine again in company with Professor Hart and the surveyor and took samples of material that was on the 3rd June That was to examine the deeper- debris brought awayy by the burst I saw a sample of infusorial earth and honeycomb rock and basaltic clays and lignite wood There is nothing different about this to what is found in similar conditions Anything is found about washes gold and copper and precious stones We found nearly almost everything There is nothing singular about it There was nothing singular about anything I saw there I have read the Mine Managers Reports the daily, weekly and fortnightly reports, up to the time of the disaster I believe them I may state they are true andfaithful records of what occurred from day to day and week to week and fortnight to fortnight

I have also read all the press reports of the three local paper

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full	Mining Maaagers Reports and the information that appeared in
	the papers I can see nothing abnormal or mysterious at all
	that had been met with in the mine either in the opening up o
122	the blocking of the wash I say it cause and effect nothing at
	all abnormal There was nothing abnormal in the circumstances
	leading up to the disaster Mr Harris reported does not disclo
102	anything in the opening up and that piece of ground, was cut
	up very small for a purpose. A practical man will know
	that it is always better to get finality before blocking back
	and leave your blocks as large as you can and subdivide them
	when you are coming back but here there are only 25 to 30 fee
1029	blocks the ground, was between 3 and 4 hundred fathoms taken
	out by driving before blocking was started and thexxxxepexted
120	that represented 600 props when the ground actually commenced
	to subside before blocking commenced there is not the shight
	doubt about it in my opinion There were 277 fath oms of
1029	ground taken out of that before the 10th Feby when Mr Harris
	reported to his board that the blocking back from the 173
	feet to No Pand when he stated that he had between 3 and 4
1909	months from the 10th I can only make up that there was not
1000	150 fathoms of ground taken up out of all that ground There
	were 277 fathoms producing 350 ounces in the opening up In
	The opening up of that ground the leading drives are to
1020	drain it The cross drives are to know its depth- width. all
	The subterranean gutters have their rising banks and the cros
1,90)	drive prove the winthAll the wash of this quality and from
1000	this drive you judge from the quality of the ground and
	the cutting up of the ground showdthat it was very good quar
	quality On the 15th December the fortnight's yield was
Taken and Sworn be	efore me the day
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55 fathoms for 73 ounces or an average of 1 oz 8 dwts On the 20th there was 30 fathoms for 32 ounces or an average of 8 ounces 8 dwts 30 fathoms for 1 ox 9 dwts 1 oz 6 dwts and so on. The fathom was the system that we adopted in the mines for contractor when pawelling

Duke in this qualitynof ground A fathom is 6 feet x 6 feet that was equal to over half a pennyweight to the foot. Or close on a pennyweight in some cases 30 What seems strange to me and I can only come to one conclusion that there was 129 277 fathoms of ground worked out or 277 pieces by driving only That is a large area of ground to take out on the 10th Feby Mr Harris recommended the board to start and block back that the Duedors adoptedhis report ground and then it was it would appear the the blocked the ground From the blocking of the ground we expect but knexes profit from quartz reefs If the driving of the main drives and the sinking of winzes and putting up of a rise pay its expenses it is very good If a mine like thatpays its expenses before itggets wash it is very good I believe the Managers Reports and the only discrepancy in them instead of the yield of the blocking strip being 2 to 3 higher it is 2 to 3 lower On the 10th he recommended to block they evidently adopt his report because the next fortnight we hear of him saying many feet driven and so many feet blocked this was on the 10th and you would have on the 12th

Taken and Sworn before me the Coroner.

the consent of the board that is a question for Mr Harris

On the 28th the ground subsides, and he gives what I consider

whether he blocked before he got word from the office

an intelligent man would the reason for it coming down.

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That ground had subsided and had subsiding and when he commenced block when he to take out that ground it came down it freed the imprisoned water from the rock and was held up until it got sufficient pressure to break through and he got the burst and the burst brought away sand That is exactly what I should expect And here I think Mr Harris made an error of judgment after having had the burst of water It wasan unknown quantity and he could not tell how much was there What should have been don't was he should have located the water and then have put up a water rise to have got control of the water We have heard a great deal of the quantity It is not the quantity of water it is the trouble that they had t to get the mastery of it It is a very good servant but a bad I think I have been of water from the Great Gulf to Maryborough if not I have had friends in it whom I have consulted about it I have follwed the example of good men men like Mr Martin Wooldridge Nicholas who have worked out ground successfully It is no good to say the men blocked ground where there is water because it is an insult to intelligence. If the Madam Berry had water they could never pay a dividend and that ground was worked out ix thexwestxfacesx under the worst phases that I have ever had any experience of. and we are told the reasons and I sympathise with with the Mining Manager who has had to work it Mr Wright in his evidence told us that the mine would have to stop They would not let it go on. Mr Wright said if they had continued blocking the mine would have to stop The most marvellous thing was that

Taken and Sworn before me the.

it did continue It could not pay and did not pay The ground

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> in the condition it was in could not possibly pay and fro-m the 10th. they could not have been working and Mr. Harris had better men than the tributors. The complaint was before that when this 327 fathoms obtained 350 ounces it was done by the tributors! At the time it was blocked back the Company had it with a better class of men. We found that the last week before the accident took place there was not 15 cunces of gold obtained and it was backed where it was considered the best ground in the mine was

met with. The men could not work there. The drives were silted up and were coming low, the bottom rising up and it is made

softer by water and when you get a superabundance of earth the quantity of timber that is on the ground acted as wedges and five

or 100 wedges are driven down by hydraulic pressure and the

material that the wedges displaced comes down at the point of least resistance. The point of least resistance is the bottom

of the drive or the main drive underneath. Evidently the working

is effected by the superabundance of the weight overhead and is

in pieces today because of that pressure. I have seen a main

Adrive affected 45 feet away from the reef by the ground coming down there is no geological strata or rock that we know of that is so subject to change as basalt. You can see that in the cutting from Ballan to Bacchus Marsh and in our quarries.

are very few quarries that you can work, you get hard blue basaltic

Taken and Sworn before me the.... Coroner.

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and soft honeycomb rock and rock with fissures in it that you can crawl through. I suppose I carried out the largest pieces of work in the Lord Harry Company where I drove through 900 feet . We went through basalt that cost 3/6 per foot to £13 and £14 per foot to drive. In all the ground in the Cardigan there is no indication whatever that the rock may have become changed or soft or rotten rock or spongy. The water that is met withh in the wash is not found connected with the imprisoned water. At the Newington Mine in Ballarat there is 142 feet 6 inches of rock I was one of the Contractors. We had four to five thousand gals. of water per hour in that rock. We bottomed on what some consider the bed rock. It turned out to be 20 feet of false bottom. We made a foundation there and puddled back the water. We had about 20 lbs. to the square inch and underneath that false bottom we sunk 70 feet of dry drift showing that the lake water is independent from the drainage of the old river bed. I think an error of judgment took place - they should have located it and put up a water rise to get control of it. I was Manager when the Demaster was opened up. In sinking that shaft they were surprised to find the water they had in the rock, they had 14 strokes per minute for a 10 inch lift. That was gradually subdued and I took charge of the mine before the shaft was finished. When we put in our main drives and got out into the wash and opened it up. The time came when we could block it out the piece of ground. Before I did so I

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put up a rise to ascertain the amount of the alluvial from the drive to the rock. I went up dry and never had any water. started to block about 50 feet from that point and when I had blocked from 40 to 50 we had a burst of water - a very severe onewe overcame that and before any more blocking was done, I put up a water rise and I drove into the break and actually flumed it over the break and there were several other water rises put in that mine. That is what should have been done. I did the same in the Lothair Company in Clunes. I examined the surface of the Cardigan with Mr. Harris and the Surveyor and we could discover no sign of subsidence on the surface but in the Lothair it was some two years after that ground was blocked out that the ground subsided and made the lagoon. In the Ristori, Madame Berry and Lone Hand they had water running for three to four years from their water rises. Mr. Williams at the Beaconsfield, and Mr. Champion at the Hepburn Estate have both had water rises and where you get the alluvial in that rock and the water is so strong that it does not subside you must do it. You have got to do it by working the mine but not by law and it is no use of a Manager insulting the intelligence of men by saying differently. They say there is a lot of water in this mine in their evidence that in the Duke we have two 22 inch pumps but there is no dryer mine in the world than that because the water is under control and the ground is drained and the Manager would not

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think to work where they should be blocked. To me there is no

mystery about this disaster in the slightest. It is cause and effect. We are all liable to make mistakes. The ground was taken out and it subsided from the rock and the water accumulated If any one wants to know the pressure of water let them go to the . dams. The pressure of the Gong Gong feeds our boilers. The water increases every foot. Every cubic foot of sand that came out made room for 10 gallons of water. As the water and sand came away it made the cawity larger. There is not the slightest doubt about it and Mr. Harris partially succeeded in stopping the free course of the water hence it went on for 8 or 9 hours until it got the mastery and he had another burst. There is nothing unusual about that it is common sense. If you strengthen a dam and let the water rise above the bank it will wash it away. The Winter's No. 2 shaft was sunk comparatively dry and fifty feet from that shaft there was a hand bore put down. It was under Mr. James Pearce's management. The hand bore was put down to test the depth of the wash and the drive going through the shaft In the Winter's No. 1 we had not the difficulty we expected there. We sunk it in seven months instead of taking as we expected eleven. At the Midas Coy: is the deepest wash proved in the colony and in that we ### ewere sinking what we thought was the Midas Extended shaft. We had one hole in the bottom of that shaft that increaded to 32000 gallons

hole in the bottom of that shaft
Taken and Sworn before me the day

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per hour. If I have indication of rock water I should go on

the other side of the gutter and construct a rise 4 X 2 feet

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> and go out and strike the rock outside of the influence of the broken ground and keep the rise intact and then drive from the rise towards the broken ground. If you had indications of the bursts and could see the rock and found there was no water that would not relieve me of the possibility of danger. You must drive till you get it - you will get it alright. I would put up two or three rises to test it. We went in the Lothair and did not get the water for 48 hours after we put it up. We have driven 30 to 40 feet in the rock and come down next day and found it like a shower bath that is because the crevices of the rock have had clay in them. I would put it to 3 feet as the space of the ground taken out. Taking that as a basis and 170 feet long by 55 feet wide it would hold close on 800 tons of water. That is barely the subsidence and not taking away any sand. You get a cubic foot - 62 tens of water to the foot. From No. 2 jump-up it is 170 feet to the South West. There are only two or three blocks. I am inclined to think from theangle of the subsidence that they came back to the South East and taking the angle of the broken ground from the No. 1 hump-up that the both were connected and it is likely that the water in ground that subsided from No. 1 would be connected with No. 2. The b-locks were so small that when the portion of the rock subsided, it

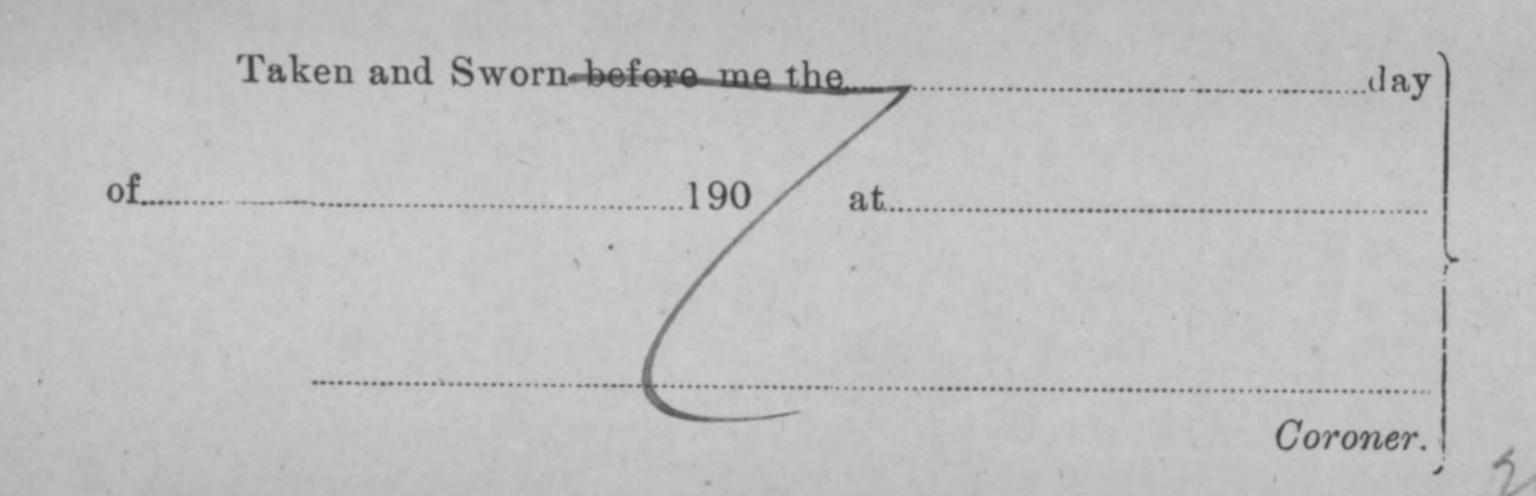
Taken and Sworn before me the Coroner.

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it squeezed the water out and it might have been connected with the other workings because from the angle of subsidence coming to an angle of 45 degrees. Mr Fitches says that the water met with affected the water from the No 2 jump-up showing that it was connected. With that connection therewas over 800 tons overhead. Nobody knew what pressure there was from the rock where I claculated the water was accumulated is from No 2 ground blocked our South West. I have heard evidence as to the pumps, that I am sorry to hear. The engine-driver thought it was an advantage to have the pumps out of repair. Any man to make such a statement ought to be ashamed of himself, it is not an admantage. There is a pressure of I00 tons to the square inch. I think the plunger lift is 250 feet if you reckon about & pound to the foot there is about 100 lbs. pressure on the seat of the valve. The fresh water would cut it away like a knife in butter. I am sorry to hear that Mr Kennedy said that it was an advantage to have the pumps put of order. The Company should be in a position to take away any un-expected water. Mr Fitches said it was only a stroke of I foot 8 inches. When the last big burst took place the chances are that the pumps would not go better. They had not to go much worse to be useless. Supposing that they became useless it is hard to say how long it would take to get to the men with the tanks. The lifts going at I' 8" are in a very bad state



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Sand will scour away quicker.

Q. Mr Harris said that the pumps were of such little importance that he did not report it to the Directors?

Mr Harris had no water, that is the point he speaks of in connection with what his pumps were able to do, disabled as they were to combat with the little water they had. When he commenced to get these bursts, I do not think he was safe in touching the pumps To stop would be to imperil. If the seating had to be then. taken out it is not like changing the clack. We have had the pumps working in the Duke United for I2 months and never change, but they would not last I2 hours if the seatings were out of Many taps are ruined in Ballarat by being leaking, that repair. is because the seating and the ball of the tap are worn away. My conclusion which I have formed as to how the men were killed is, the ground being taken out and weakened it had one general collapse and the tremendous fall of groung brought by its own weight squeezed every drop of water out of it. The men were killed and not drowned by the fall. If there had not been any water in the ground there would simply be a displacement of air. Three men were killed in the Western Freehold by trying to bring an area of ground down. like to see it come down quickly. When an acre of ground comes down it makes the lights go out. The man were getting timber to build a horse to keep up the main drive ant to assist in keeping up

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the blocking, so that there could not be a general collapse and thenn that came away overhead, not in the mysterious gutter, because no one ever heard of a burst of water from the gutter. You get the water as fast as it percolates through the dirt, it is not a dam bursting away, it is a ridiculous idea, no one ever heard of it. It may appear in penny dreadfuls about subterranean lakes. It is doubtful if you ket a lead in that class of wash, you might increase the pump up to 7 strokes a minute but never get a burst. As for the boulders we have seen they present nothing to me because you get so many changes in the wash, you get changes in colour and you get everything you see in the rivers today. We got an island of sand in our Mine the other day, and you get crab holes and sinuosities of the gutter and the boulders indicate nothing to me, no mew gutter. Having regard to what I have read in the reports, I do not think I would have allowed the men to go on blocking out that ground on the day of the disaster. I would not take a risk like that apart from a risk and the menace of the Mine it was not worth Mining Managers should have more back-bone than to give way to such miserable men we have on the Board, men that know no more about mining than jelly fishes. I have tried to place the Manager in this position, he should have the power to suspend and not to discharge. The Mining Manager has under him who are just regardless of anything except to earn 7/6 per day. My experience in all big alluvial Mines is that the men are not allowed to go to any

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faces but their own and in large mines where they are two or three thousand feet apart the men may not know anything about the other faces. All they know about the management of the mine is the chat at crib time. As for our miners it is astounding what a small per centage of them knows the difference between a plunger and a drawlift and how the water comes up the shaft and yet they come as expert witnesses as miners. They go to mining as means to an end and like to get out of it as quickly as they can.

From that report I gather that as the workings extend to the

Mr. Barrett read from report of February 10th.

South West the gutter widened out and hence became poorer. You get two ounces to the and it widens to 4 feet and then gets poorer. You get the same amount in the narrow as you do in the wider, it is distributed over a wider area. His expectations that it would take 3 to 4 months to work it would convey to me that having cut that ground up he then suggested that it be blocked back. There was nothing unexpected about that. The colour of the wash as a rule partakes of the character of the bed formation. If you get a red reef you have a red wash, sometimes you get blue or black wash. It is governed by the strata it is lying in. The Manager had to contend with the fair streams coming from the wash. There was no doubt he was meeting with quartz veins and it would drain it. The main drive did not

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The report "Water coming assist hi m in draining his wash. down" would indicate nothing unexpected. When that ground was cut up very small. I should have expected it to subside quicker if it had been in larger blocks. It was found that that subsidence disclosed water overhead and I think that Mr H Harris gave a very intelligent as to the cause.

" Decided to suspend work etc: etc: think pool of water

accumulated" I thoroughly agree with that. There has been We occurred in the press reports or any evidence to alter my

opinion. I think that Mr Harris gave a trus record of what

took place and a correct reasonm for it occurring.

March Ist. "Water still 8 strokes per minute etz:" That is exactly what I would expect. The groung is dragging and is bound to influence ground in the vicinity of it.

Mr Barrett quoted from March 3rd.

The great trouble is the silting up of the drives. Mr Harris should contend with the water bad as the pumps were. That is nothing to do with it whatever. The great trow le to Mr. Harris was to keep hie drives open in order that he could continue blocking. He tells us that he had 3 men repaining and caulking and trying to stop back the sound and that he succeeded in stopping aback the sound and partially succeeded in stopping the free course of the water and then it would

pool again as a natural consequence and the day afterwards he

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would get another small burst. To show you how it retarded the works we get the yields falling off very considerably altho although back in the ground. The yield reduced simply he could not work it. The men were afterwards engaged. The bed rock being so soft and the water making it softer and like baker's dough. The weight coming down they could not get to work. The men blocking the 4 feet have no margin blefore them to get a truck in. You want to have it under most the least favorable conditions to block and keep it open if you have any distance to go from the main drive. It suggests to me that he was still retreating from it and still blocking He says it is impossible to keep the main drive open and that is all right.

Mr Barrett quoted from March 5th. That report is cause and effect.

6th. March "Water about the same ground exceedingly heavy, compelled to abandon 2 blocks"

That report conveys to me that a lot of debris from the rock had washed away and coming from other fragments of the rock and come down with the stream. The drives hidden back further than the blocks are silted. It was impossible to keep it open as he says. I have seen hundreds of feet of drives through bursts of water, that is not unusual it was a

barrier. Some have said it is through its poverty, but Mr Taken and Sworn before me the. Coroner.