Report upon the inspection of mines classed under the Metalliferous Mines Regulation Acts in the counties of Anglesey, Brecon, Cardigan, Carnarvon, Denbigh, Flint, Merioneth, Montgomery, Radnor, and Shropshire, and in the Isle of Man, for the year 1886 / by C. le Neve Foster.

Contributors

Foster, Clement le Neve, 1841-1904.

Publication/Creation

London: [Stationery Office], [1887]

Persistent URL

https://wellcomecollection.org/works/vztex3b5

License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org

DR. C. LE NEVE FOSTER'S REPORT.

neral Collection

Dr. C. Le Neve Foster's Report.

REPORT upon the Inspection of Mines classed under the Metalliferous Mines REGULATION ACTS in the Counties of Anglesey, Brecon, Cardigan, Carnar-VON, DENBIGH, FLINT, MERIONETH, MONTGOMERY, RADNOR, and SHROPSHIRE, and in the Isle of Man, for the Year 1886 .- By C. Le Neve Foster, Esq., B.A., D.Sc., F.G.S.

Llandudno, 21st March 1887. In compliance with section 20 of the Metalliferous Mines Regulation Act, I have the honour to present you my Annual Report for the year ended 31st December 1886.

I have divided my Report into four chapters, as follows :-

Chapter I.—Summaries of Annual Returns. Persons employed, and minerals produced at mines and openworks.

II .- General list of fatal and non-fatal accidents. Summary. Comparison with the previous 11 years. Accidents due to breaches of the Act or of Special Rules. Comparison between Metal mines and Slate mines as regards accidents.

III.—Prosecutions: Barmouth, Benallt, Brynfelin, Diphwys Casson, Great Manod,

Rushen, Snowdon, and Wrysgan mines. Bugail and Oakeley Upper mines.

IV.—General Remarks: Exemptions under the Slate Mines (Gunpowder) Act.

Special rules. Abandoned mines. Plans. New mines. Manganese mining in Merionethshire. Ventilation. Barracks for workmen. Prevention of crane accidents. Improper conveyance and thawing of dynamite. Summarv

CHAPTER I .- SUMMARIES OF ANNUAL RETURNS. PERSONS EMPLOYED, AND MINERALS PRODUCED AT MINES AND OPENWORKS.

The following table gives a summary of the returns of persons employed in and about the mines in my district :-

PERSONS EMPLOYED IN 1886

	43 3	Under	ground.				Abo	ve G	round	1.	Com	and
Situation of Mines.	200	Male I	Persons.			ges o 13.	Ago 13 to			Ages ove 18.		rground ound.
	Ages 12 to 13.	Ages 13 to 16.	Ages above 16.	Total.	Males.	Females.	Males.	Females.	Females.	Males.	Total.	Total underground above ground.
COPPER, LEAD, ZINC, AND OTHER MIN EXCLUSIVE OF SLATE MINES.	ies,											
Anglesey Breconshire Lardiganshire Lardiganshire Lardaryonshire Denbighshire Clintshire Denbighshire Clintshire Ladnorshire Ladnorshire Shropshire sle of Man Totals, exclusive of the Slate mines		3 11 3 2 1 1 8	25 15 434 192 312 447 209 94 2 286 588	25 15 437 203 312 450 212 95 2 287 596	1 - 2 - 5	The transfer	8 114 45 65 48 8 10 16 138	9	2 77 5 	85 2 177 79 243 114 93 71 145 309 1,318	97 2 379 129 308 163 101 81 — 166 456	123 17 816 332 620 613 313 176 2 453 1,052
SLATE MINES.		3447	4000	1000		-						
Carnarvonshire	: =	3 -	49 7 2,199 5	49 7 2,202 5	1111	1111	14 258 —	1111	1111	159 1 1,929	173 1 2,187	222 8 4,389 5
Totals for the Slate mines -	- 500	3	2,260	2,263	-	=	272		+	2,089	2,361	4,624
Totals for all the mines	0.000	32	4,864	4,897	5		724	11	96	3,407	4,243	9,140

The total number of persons employed in and about the mines was 9,140, of whom were females working above ground. After having had to record a serious decline in mining population of my district from 1882 to 1885, it is cheering to notice a turn of tide. Compared with the previous year, there is an increase in 1886 of 347 persons, of 3.9 per cent. This increase is due entirely to more activity in metal mining, for at the underground slate quarries there is a decrease in the total number of hands.

The quantities and values of the mineral dressed and of the undressed mineral sold, treated,

or used at mines in my district during the year 1886 were :-

	County.	Statute Tons.	Value at the Mines.	
	BARYTE	t8.		
Denbighshire Montgomeryshir Shropshire	re: : : :	16 736 3,076	£ 13 367 3,518	
		3,828	3,898	-
	COBALT AND NO	CKEL ORE.		
Flintshire	/	100	£ 526	
	Copper (Dee		
	00.111		0	
Anglesey - Cardiganshire Carnarvonshire	: : : :	8 62 455	£ 9 272 1,926	
		525	2,207	
	Copper Prec	прітате.		
Anglesey -		380	£ 2,481	
	Iron Or	te.		
Denbighshire		13	£ 5	
	Iron Pyrr	TES.		
Anglesey - Carnaryonshire	1 16: :	211 9,792	£ 130 6,854	
		10,003	6,984	



Stage Con	Con	anty.	Statute	Tons. Value at th Mines.	e
		LEAT	ORE.		
	Breconshire - Cardiganshire - Carnaryonshire -	· :	- 1,	43 309 744 16,601 ,162 10,773 ,512 14,031	
	Denbighshire - Flintshire - Isle of Man - Montgomeryshire - Shropshire -		2, 6,	,312 14,031 ,180 20,554 ,257 80,081 ,917 9,202 ,592 22,579	
			16	,407 174,130	
		Limes	TONE.		
	Flintshire Shropshire -			.663 £ 269 .955 894	
	The state of the s		8	,618 1,163	
		Mangan	ese Ore.		
		-		£	
	Carnaryonshire Merionethshire	1000 10	- 11	99 ,285 7,955	
	et a	10.5	11	,384 8,097	
		Ochre a	ND UMBER.		
	Anglesey -		- 2	,831 £ 5,500	,
		SLATE AND SL	ABS (DRESSED)).	
	Carnarvonshire - Denbighshire - Merionethshire -			,650 £ 12,448 63 70 ,814 388,514)
				,527 401,032	2
		Zino	ORE.		
Inches of	1 1 1 1 1 1 1 1	Seller Edbar	HOUSE COM I	£	100
	Anglesey Cardiganshire - Carnarvonshire - Denbighshire - Flintshire - Isle of Man - Montgomeryshire - Shropshire -		- 6	697 1,100 ,423 9,060 209 302 ,700 23,242 ,184 3,688 ,795 16,876 599 1,030 115 352	
	ATTENDED TO A STATE		17	,722 55,650	,
AND ROLL	THE RESIDENCE OF THE PARTY OF T	Total value	661	,6731,	

The number of persons employed in my district during the year 1886 at the openworks producing lead ore, ochre, slate, umber, and zinc ore, but exclusive of those producing limestone, paving-stone, road metal, gravel, &c., was as follows:—

	Anglesey - Breconshire Cardiganshire Carnarvonshire Denbighshire Flintshire Isle of Man Merionethshire Montgomeryshir			Total Numbersons employed at Openwork 30 4 18 8,481 113 37 11 313 40 9,047	the cs.	
		Total -	-	5,017		
The output of th	ese openworks	in 1886 was	s,—		A STANFARM	
10	County.		Status	te Tons.	Value at the Openworks.	
,		LEAL	ORE.			
Flintshi	re		-	34	£ 238	
. 9	00	CHRE, ROTTEN	STONE, AND	UMBER.		
Anglese	y and Isle of Man	alt .	-	3,631	£ 5,669	
		SLATE AND S	SLABS (DRES	SED).		
Denbig Merion	nshire -		24	89 155 6, 302 2,953 8,220 1,058	£ 112 349 607,045 4,533 19,667 2,130	
	Totals		- 2	58,777	633,836	
		ZIN	c Ore.		Sales at	
Flintsh	ire-	gar.		195	£ 507	
	To	tal value	6	40,2501.		

The output of each individual mine, the per-centage of metal in the ore, and the amount of silver obtainable from the lead ore are given in the "Mineral Statistics of the United Kingdom," published as a separate volume.

CHAPTER II.

LIST OF FATAL AND NON-FATAL ACCIDENTS. SUMMARY. COMPARISON WITH THE PREVIOUS ELEVEN YEARS. ACCIDENTS DUE TO BREACHES OF THE ACT OR OF SPECIAL RULES. COMPARISON OF METAL MINES AND SLATE MINES AS REGARDS ACCIDENTS.

In accordance with my usual practice I give a list of all the accidents, fatal and non-fatal, reported to me during the year. I keep the Slate mines separate, so as to be able more easily to study the dangers of workings of this kind.

LIST of the FATAL ACCIDENTS, and LOSS of LIFE arising therefrom, and of the Non-FATAL ACCIDENTS causing Serious Personal Injury, or arising from Explosions of Gas, Powder, &c., or of any Steam Boiler in the Copper, Lead, Zinc, and other Mines, exclusive of the Slate Mines, in Dr. C. Le Neve Foster's District during the Year 1886.

Date.	No. of the Accident.	Name of the Mine.	Persons killed or injured. Names of Persons killed in <i>italics</i> .	Occupation.	Reputed Age.	Length of Time the Person was prevented by the Effects of the Accident from resuming Work.	Cause of Accident, and Remarks.	No. of Persons killed.	No. of Persons injured.
7-10			Marie Control	FALL	вор 6	ROUND.	And the second of the second of		****
1886. Jan. 8 Feb. 4	1 7	Morfa du Frongoch	John Roberts - George Pickering	Miner	50	1 weeks -	Fall of roof loosened by a blast; he did not think it would fall so soon. He was taking down loose ground after blasting, when a piece struck		1
March 11 Nov. 25	16	Lisburne	John Lewis -		45	2	his right arm and broke it. Fall of loose ground which he was engaged in removing after a blast. Unexpected fall of side while driving a level. Ear out.		1
-	2		1 11111111			- energy	Total falls of ground	-	•
					In Su.	AFTS.			
						breakingNone.			
			IF.	hilst ascending	or des	cending by Machin	ery.		
Nov. 10	64	Fordale -	- Philip Cringle -	Shaftman	- 25	54 weeks	He stepped into a kibble, hoisted by compressed air-engine, without waiting for a man to lower him; the kibble dropped 17 fathoms.		1
		Parent Land		Falling into si	haft fr	om Surface.—None	The same of the same of		
				Things falling	g from	SurfaceNone.			
			Tollar.	Falling f	ross po	ert way down.			The same
Feb. 17	12	Van -	- John Gough -	Miner-	- 20	16 weeks	While working at the bottom of winne he was suddenly taken wit diarrhees, and instead of waiting t be drawn up in the kibble, h climbed up by the timber, but fe just as he reached the top. Sku fractured.	e	1
Mar. 24	22	Foxdale -	- W. A. Christian	-	- 16	Still unable to work, March 1887.	He went to the shaft without a light and after getting over the sence se through a small hole through which the capstan rope had been let down		1
Oct. 7	59	Pantgwyn-	- John Jones -	Shaftman	- 50	3 weeks	He was screwing up a flange-bolt whe his spanner slipped, and he fell 00 f down the shaft into water.	n	1
			A STATE OF THE PARTY OF THE PAR	Things falli	ng fro	n part way down.	Teller 1900 - a could	25-	Ren
Aug. 16	50	Llain-hir	John Howells	Miner -	- 20	6 weeks	Pall of a stone down the shaft which broke his arm. The kibbbe wardown at the time and the stone must have been lodging somewher in the shaft.	0	1
Sept. 2	2 57	Fordale -	- Robert Quayle	Shaftman	- 30	4è weeks	- Fall of a stone from the kibble h was sending up.	0	1
	-			Miscellan	seous é	s Shafts.—None.		1	
							Total in shafts	-	- 6

List of Accidents-continued.

Date.	No. of the Accident.	Name of the Mine.	Persons killed or injured. Names of Persons killed in italics.	Occupation.	Reputed Age.	Length of Time the Person was prevented by the Effects of the Accident from resuming Work.	Cause of Accident, and Remarks.	No. of Persons killed.	No. of Persons injured.
						NDERGROUND.			
886. Feb. 26	15	Moelfre	Hugh Owen -	Miner	38	9 weeks	Explosion from boring out a charge of gun-cotton which had missed fire.	-	1
Арг. 3	27	Steeraway	MatthewGroncott		46	S months	He used too short a slow match for lighting a squib in firing a shot, and it exploded before he had time to get away. Back struck by stones.	-	1
June 7	41	Great Laxey -	Thomas Kelley		50	7 months -	He was firing a hole with a straw, in place of fuse, and used too short a slow match. The charge exploded before he had reached a place of safety, and his log was badly lace- rated.	-	1
				Sufficatio	on by C	7as.—None.			300
						ater,—None. Water.			
Sept. 13	56	Halkyn	William Jones	Blacksmith -	26		Drowned by the upsetting of a boat in a large underground cavera.	1	
						nes.—None.			
Dec. 24	72	Great Laxey .	John Callin -	Fan-blower -	19	5 weeks -	Foot bruised by locomotive in adit level.	-	1
				By Machinery : Sundrie		roundNone.			
April 5	20	Prongoch	Evan Hughes -	Miner	46	10 weeks	Evan Hughes' partner missed striking the drill, and the sledge glarced off the rock, hit his arm and broke it.		1
May 13	37	Grogwinion -	Thomas Elias -		28	Incurable	He fell down a pass into which he had been tipping stuff. It is not known how he happened to fall into it. Spine fractured.	-	1
16	38	Frongoch	David Lewis -	* 0.00	46	44 weeks · ·	Fall of four or five yards in some stopes. Head cut, back bruised.	-	1
June 11	43	Bryn-yr-afr -	Richard Jones -	Trammer -	56	6§ weeks	A loose stone lying on a stull fell upon him as he was passing underneath it. Two ribs broken.	-	1
							Total miscellaneous under- ground.	1	8
				By Machiner		FACE. Swrface.—None.			
				Miscellas	neons o	on Surface.			
Feb. 26	14	Cae Coch -	Richard Williams	Labourer .	35	1 week	A stone detached by frost rolled down a steep bank and struck him.	-	1
March 19	18	Lisburne	David Jenkins -	Lead-ore dresser.	15	3 weeks	While oiling some machinery, not in motion, fell five or six feet, and in- jured his arm.	-	1
May 18	39	Roman Gravels	Edwin Bennett	Miner	49	32 weeks	He was preparing to cut some timber at the surface, when he slipped and fell, breaking his leg.	-	1
July 10	46	Great Laxey -	Edward Watter-	Carter	41	9 weeks	A heavy plank fell on his foot. Ankle hurt.	-	1
Nov. 25	66	Diphwys .	David Owen -	Miner	45	6 weeks	Fall of a heavy stone upon him while making an open cutting.	-	1
		1 3 3		figure .	1900	THE RESERVE OF	Total on surface	-	5
	1		-	1000			Gross total for the copper, lend, zinc, and other mines, exclusive of the slate mines.	1	23

LIST OF the FATAL ACCIDENTS, and Loss of LIFE arising therefrom, and of the Non-fatal Accidents causing Serious Personal Injury, or arising from Explosions of Gas, Powder, &c., or of any Steam Boiler, in the Slate Mines in Dr. C. Le Neve Foster's District, during the Year 1885.

Date.	No. of the Accident.	Name of the Mine.	Persons killed or injured. Names of Persons killed in <i>italics</i> .	Occupation.	Reputed Age.	Length of Time the Person was prevented by the Effects of the Accident from resuming Work.	Cause of Accident, and Remarks.	No. of Persons killed.	No. of Persons injured.
				Falls	of an	ound.			
1886. Jan. 11	3	Oakeley Middle	Robert D. Jones	Rockman -	40	20 weeks	He went to the working place just after blasting, in spite of his partner's warning; some slate rock loosened by the blast fell and fractured his skull.		1
14	5	Braichgoch -	Thomas Hum- phreys.	- 76	27	10 weeks -	A piece of slate rock broke off un- expectedly from the face of the bargain and struck his foot.	1	1
Peb. 5	8	Oakeley Upper -	William Hughes	Labourer -	46	Still unable to work, March 1887.	A large stone fell unexpectedly from the side of a pillar 50 ft, above him and struck his leg.		1
Mar. 20	20		David Williams	Rockman -	40	2 months -	A small lump of stone fell unex- pectedly from the side of a pillar and struck his leg.	-	1
April 1	23	Maen Offeren -	David Jones -		20	2 weeks	Some rock fell unexpectedly down the face of his bargain and struck his foot.	-	1
. 2	26		Richard Roberts		36		Unexpected fall of rock from the side of a pillar where he had just been blasting.	1	-
. 22	32	Llechwedd -	Edward Mill- ward.		41	Leg amputated, still at the hospital, March 1887.	He was prizing down a block of slate, but it fell in a way he did not expect, and broke his leg so badly that it had to be amputated.		1
May 21	40	Cwmorthin -	Robert Lewis .		32	4 months -	Unexpected fall of roof in a working	-	1
	100		William Jones -	Miner	50	4 weeks	place 6 ft. high.	173	
lug. 20	51		John Davies -	Rockman -	42	5 weeks -	Unexpected fall of rock	-	1
Nov. 4	63	Rhosydd -	Robert Jones -		26		Unexpected fall of rock from a pillar, the side of the chamber in which he was working. The men thought the place sale as they had sounded it a few days before the accident.	1	
Dec. 21	71	Aberllefenny -	John Morgan -	Miner -	42	2 weeks	Unexpected fall of a stone from the roof of a chamber.	-	1
		Part of the					Total falls of ground	2	10

IN SHAFTS.—None. MISCELLANEOUS UNDERGROUND. Explosions of Gunpowder, &c.

Feb. 11	19	Palmerston -	Robert Roberts	Rockman	- 31	4 weeks	He was using a brass-tipped stemmer to tamp a charge of gunpowder, when it exploded and burnt his face.	-	1
March 12	17	Maen Offeren -	John Jones -		42	Still unable to work, March 1887.	Through inadvertence, got in the way of a blast; leg broken.	-	1
20	24	Diphwys Casson	Hugh John Jones	Slate-maker	16		Explosion of 28 lbs. of gupowder.	1	3
			Hugh Samuel Jones.		30	18 weeks	Hugh John Jones was walking along a level carrying two calico bags, each containing 4 lbs, of gun-		
			Robert Lewis -	Rockman	29	18 weeks -	powder. He was followed by Hugh Samuel Jones carrying two similar		
			John Griffith -		22	20 weeks	bags, and by Robert Lewis carrying three similar bags. Hugh John Jones struck a match to light a candle or a pipe; his powder ignited and set fire to the rest. He died two days afterwards, and the men following him were severely burnt. See Chapter III., Pro- secutions.		
April 6	50	Oakeley Upper	Lewis Jones -	Miner ·	35	4 weeks	Lewis Jones was ramming in tamping	-	2
			Owen Thomas -		35	5 weeks	with a wooden stick upon a charge of gelatine-dynamite and gen- cotton, when they exploded. Fric- tion of the tightly-fitting gum-cotton against the side of the hole may have caused the explosion, or it may have been due to a blow on the cap.		
Sept. 28	58		John Lewis -		35		He was driving a level southwards, and his partner was driving north-wards to meet him. The barrier, on the day of the accident, was only 3 or 4 feet neross. His partner signalled to him by hammering that he was going to blast, and Lowis replied in the same way. The hole was fired, and broke through the barrier, killing Lewis, who, for some unaccountable reason, had not retired, but had continued going on with his work.	1	

REPORTS OF INSPECTORS OF MINES.

List of Accidents-continued.

-	7.2	ALTERNATIVE AND ADDRESS OF THE PERSON AND AD			1	10 10 10	THE SHADOW STORES IN	3 12	T
Date.	No. of the Accident.	Name of the Mine.	Persons killed or injured. Names of Persons killed in italics.	Occupation.	d Ag	Length of Time the Person was prevented by the Effects of the Accident from resuming Work.	Cause of Accident, and Remarks.	No. of Persons killed	No. of Persons injured
				Sufficialism	hu Go	see -None			
			+	Irruptions of		er.—None.			
				Falling int					
				On Incline	d Plan	es.—None.			
				By Tr	ams an	d Tubs.			
1880.				.			W. b. b. bli and and and and		1
March 19	19	Oakeley Upper	Griffith Lloyd -	Labourer -	20	8§ weeks · ·	He broke his ankle while endeavour- ing to put back a loaded waggon which had got off the rails.		-
April 27	33	Votty & Bowydd	Owen Thomas -		35	17½ weeks	He was unbooking two full trucks which were still in motion, and had his arm squeezed between them.	-	1 11
Dec. 17	70	Wrysgan -	William Jones -		28	3 weeks	While pushing a waggen round a corner had his hand crushed between the waggen and the rock.	-	1
-		Allegan o							
		MAN TO BE STORY		By Machi	nery l	Underground.			
April 3	28	Votty & Bowydd	Owen Evans -	Labourer -	26	8 weeks	While lowering a block of shate with a crane let the handle slip; it flew round and struck his forebead.	-	1
28	34	Diphwys Casson	Owen H. Roberts	Rockman -	27	3 weeks	While lowering a block of slate with a crane let the handle slip; it flew round and struck him a severe blow on the nose.	-	1
Sept. 8	54	Braichgoch -	David Davies -	Labourer -	18	6 days	While lifting a block of slate with a crane let the handle slip; it flew round and struck him on the head.	-	1
Oct. 25	61	Cwmorthin	Griffith Williams	Rockman .	52		While lowering a block of slate with a crane let the handle slip; it flew round and struck him on the fore- bend. One end of the block was already resting on the ground.	1	/4
-							aireasty resting on the ground.		-
				Sundri	es Und	lerground.			
Jan. 11	2	Bryneglwys -	Edward Lewis -	Rockman -	29	5 weeks	A stone slipped down a heap of rub- bish and struck his leg.	-	1
-,, 16	4	Braichgoch -	David Edwards	Miner	33	8 days	A stone rolled down a heap of rubbish on to his foot.	-	1
. 19	- 6	Cwmorthin *	Robert Williams William Jones -	Repairer -	67	8 months -	These two men and four others were endeavouring to mise an underground breign slightly, but were not deing their work in the right way. One of the chains broke and the six men fell with the bridge to the next fleor, a distance of 28 feet. Williams and Jones received severe cuts and bruises.		
Feb. 1	9	Wrysgan	- Robert Parry -	Rockman -	82	11 weeks -	He was dragging a block of slate by means of the crame, and when it got undermeath the crame it somehow turned suddenly and struck him or the leg.		1
April D	9 35	32.0	- Thomas Roberts		- 83	7 weeks	The tip of his crowber broke as he was prizing up a block of slate, and falling backwards, he cracked the		1
May 1	Q 36	Oakeley Uppe	william Jones -	Labourer	- 40	Still unable to work, March 1887.	small bone of his leg, He fell down a precipice and broke his leg. The edge of the precipice was fenced, and the man, for som- unexplained reason, had climbed over the fence.		1
June 1	13 44		William Roberts		- 58	124 weeks .	A loose stone rolled down a heap of rubbish and struck him.	1 -	1
July 1	13 47		Lewis Jones -	Rockman	- 35	2 works	Fell down the forebreast of his cham ber while walking across the top of it.	-	1
	21 4	Cwmorthin	- Owen Lewis - William Davies	Labourer Rockman	· 27	6 days	1	1	1
	2 4		- Thomas Robert	a Cartery -	- 53	Foot amputated still unable to work, March 1887.	He was talking to a rockman boring a bole, and through inadvertence	0	1
	100	1		-				-	1

List of Accidents-continued.

100						1	Charles of the Control of the Contro		100
Date.	No. of the Accident.	Name of the Mine.	Persons killed or injured. Names of Persons killed in <i>italics</i> .	Occupation.	Reputed Age.	Length of Time the Person was prevented by the Effects of the Accident from resuming Work.	Cause of Accident, and Remarks.	No. of Persons killed.	No. of Persons injured.
1886. ept. 3	58	Oakeley Upper	Robert Jones -	Rockman .	40	6 weeks	Fell down the face of his chamber from the breaking of the hole con- taining the iron peg to which his chain was fixed.		1
6	53	Palmerston -	Evan Jones -		47	6 weeks	He was startled by a sled coming slong the tunnel, while he was opening his chest, and lifting up his head suddenly struck it against the roof and cut it severely.	100	1
. 11	55	Oakeley Middle	Rowland Roberts	11 6	30	Still unable to work, March 1887.	He dislodged some loose rubbish lying on the face of his bargain and fell down it.	aluo!	1
	1						Total miscellaneous underground	4	27
June 8	4	Wrysgan -	Robert Prit-		SURP nery o	on Surface.	He used his foot instead of his hand to turn the reversing wheel of a swing table; the wheel moved suddenly and caught his foot	does la sur la s	The state of the s
Nov. 2	62	Llechwedd -	Griffith G.	Slate-maker -	15	Still unable to work, March	While making slates with a rotary machine had the top of one of his	10	1
1111	23 1 1 12	8				1887. ig.—None. on Surface.	fingers cut off.	nino idma police ii qu	g X
OI	2 - 1 - 1	Wrysgan	David Jones -			1887.	His father was turning over a block	olio) ifaso polici i qui	The state of the s
eb. 16	11 11 11	Wrysgan Aberilefenny -	2	Miscellan	neous (1887. 19.—None. on Surface.	His father was turning over a block of slate, and, though warned, the son did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a	olio il molto di polito di	THE REAL PROPERTY.
E 20	1 1 1	71	David Jones -	Miscellan Tipman -	18	1657. 19.—None. on Surface. 6 weeks	His father was turning over a block of slate, and, though warned, the son did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a waggon, when it moved suddenly and struck him. He was riding on a truck with a load of rubbish and fell off; the truck	oloo Standarding acity acity acity acity	
E 20	11 13 13	Aberllefenny -	David Jones -	Miscellan Tipman . Labourer	18	1887. 19.—None. on Surface. 6 weeks	His father was turning over a block of slate, and, though warned, the son did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a wargon, when it moved suddenly and struck him.	in the second se	1
20 (arch 24	11 13 21	Aberilefenny - Braichgoch -	David Jones - Robert Owen - Edward Evans-	Miscellan Tipman Labourer Slate-maker	18 46 16	1887. 19.—None. 10. Surface. 10. weeks	His father was turning over a block of slate, and, though warned, the sen did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a waggon, when it moved suddenly and struck him. He was riding on a truck with a load of rubbish and fell off; the truck went over his arm and broke it. A piece of stone fell from a loaded waggon on to his leg. A hole 5 ft. deep was charged with a little dynamite and 2 lbs. of gunpowder. The powder appears to have got damp, for it made two	olso olso olso olso olso olso olso olso	T VI
8 20 20 [arch 24 2 26 8]	11 13 21 23	Aberilefenny - Braichgoch - Oakeley Upper-	David Jones - Robert Owen - Edward Evans- John Jones -	Miscellan Tipman Labourer Slate-maker Carter	18 46 16	1887. 19.—None. 10. Surface. 10. weeks	His father was turning over a block of slate, and, though warned, the son did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a waggon, when it moved suddenly and struck him. He was riding on a truck with a load of rubbish and fell off; the truck weat over his arm and broke it. A piece of state fell from a loaded waggon on to his leg. A hole 5 ft, deep was charged with a little dynamite and 2 the of run.	olio oli di sala di sa	The state of the s
20 farch 24 26 pril 13	11 13 21 23 31	Aberilefenny - Braichgoch - Oakeley Upper- Rhiwbach - Conglog	David Jones - Robert Owen - Edward Evans- John Jones -	Miscellan Tipman Labourer Slate-maker Carter	18 46 16	1887. 19.—None. 10. Surface. 10. weeks	His father was turning over a block of slate, and, though warned, the sen did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a waggon, when it moved suddenly and struck him. He was riding on a truck with a load of rubbish and fell off; the truck went over his arm and broke it. A piece of stene fell from a loaded waggon on to his leg. A hole 5 ft. deep was charged with a little dynamite and 2 lbs. of gunpowder. The powder appears to have got damp, for it made two reports and a fixing noise between them, Thinking all was over Davies returned to the bode, when a third explosion took place, injuring his face and cyes. He was riding with several other men on a truck containing slabs; seeing a stone on one of the ralls he lumned	olio olio olio olio olio olio olio olio	T VI
20 (arch 24 26 pril 13 cf	11 13 21 25 31	Aberilefenny - Braichgoch - Oakeley Upper- Rhiwbach -	David Jones - Robert Owen - Edward Evans - John Jones - Robert Davies -	Miscellan Tipman Labourer Slate-maker Carter Rockman	18 46 16 50 48 22	1887. 19.—None. 10. Surface. 10. weeks	His father was turning over a block of slate, and, though warned, the sen did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a waggon, when it moved suddenly and struck him. He was riding on a truck with a lead of rubbish and fell off; the truck went over his arm and broke it. A piece of state fell from a loaded waggon on to his leg. A hole 5 ft. deep was charged with a little dynamite and 2 lbs. of gunpowder. The powder appears to have got damp, for it made two reports and a fizzing noise between them. Thinking all was over Davies returned to the bole, when a third explosion took place, injuring his face and eyes. He was riding with several other men on a truck containing slabs; seeing a stone on one of the rails he jumped of and ran in front of the truck to kick it off. Unfortunately he slipped and fell, and the truck struck him so violently that he died in the course of a few hours.		100
20 farch 24 26 pril 13 cune 28 cct. 8	11 13 21 23 31 45	Aberilefenny - Braichgoch - Oakeley Upper- Rhiwbach - Conglog - Aberilefenny -	David Jones - Robert Owen - Edward Evans - John Jones - Robert Davies -	Miscellan Tipman Labourer Slate-maker Carter Rockman Labourer	18 46 16 50 48 23	1887. 19.—None. 10. Surface. 10. weeks	His father was turning over a block of slate, and, though warned, the sen did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a waggon, when it moved suddenly and struck him. He was riding on a truck with a load of rubbish and fell off; the truck went over his arm and broke it. A piece of stone fell from a loaded waggon on to his leg. A hole 5 ft. deep was charged with a little dynamite and 2 lbs. of gunpowder. The powder appears to have got damp, for it made two reports and a lizating noise between them, Thinking all was over Davies returned to the hole, when a thirt explosion took place, injuring his face and eyes. He was riding with several other men on a truck containing slabs; seeing a stone on one of the rails he jumped off and rain front of the truck to kick it off. Unfortunately he slipped and feel, and the truck artuck him so violently that he died in the course of a few hours. A waggon went off the rails on an incline, and some of the load fell on him.	o III	100
20 (arch 24 26 april 13	11 13 21 23 31	Aberilefenny - Braichgoch - Oakeley Upper- Rhiwbach -	David Jones - Robert Owen - Edward Evans - John Jones - Robert Davies -	Miscellan Tipman Labourer Slate-maker Carter Rockman Labourer Quarryman	18 46 16 50 48 22	1887. 19.—None. 10. Surface. 10. weeks	His father was turning over a block of slate, and, though warned, the sen did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a wagon, when it moved suddenly and struck him. He was riding on a truck with a load of rubbish and fell off; the truck went over his arm and broke it. A piece of stene fell from a loaded wagon on to his leg. A hole 5 ft. deep was charged with a little dynamite and 2 lbs. of gunpowder. The powder appears to have got damp, for it made two reports and a fixing noise between them, Thinking all was over Davies returned to the bode, when a third explosion took place, injuring his face and eyes. He was riding with several other men on a truck containing slabs; seeing a stone on one of the ralls he jumped of and ran in front of the truck to kick it off. Unfortunately he slipped and fell, and the truck struck him so violently that he died in the course of a few hours. A wazeon went off the rails on an incline, and some of the load fell on him. Pell over a natural precipice used as a tip-close to his working place. See Chapter III., Prosecutions.		100
20 farch 24 2 26 27 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28	11 13 21 23 3i 45 69	Aberilefenny - Oakeley Upper- Rhiwbach - Conglog Aberilefenny - Oakeley Upper-	David Jones - Robert Owen - Edward Evans - John Jones - Robert Davies - Robert Davies - Lloyd Roberts. Robert Evans - John Tudor Roberts.	Miscellan Tipman Labourer Slate-maker Carter Rockman Labourer Quarryman	18 46 16 50 48 22 69 69	1887. 19.—None. 10. Surface. 10. weeks 11. weeks 12. weeks 13. weeks 14. weeks 15. weeks 16. weeks 17. weeks 18. weeks 19. weeks 10. weeks 10. weeks 11. weeks 12. weeks 13. weeks 14. weeks 15. weeks 16. weeks 17. weeks 18. weeks	His father was turning over a block of slate, and, though warned, the sen did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a wagoon, when it moved suddenly and struck him. He was riding on a truck with a load of rubbish and fell off; the truck went over his arm and broke it. A piece of stane fell from a loaded wagoon on to his leg. A hole 5 ft. deep was charged with a little dynamite and 2 lbs. of gunpowder. The powder appears to have got damp, for it made two reports and a finaing noise between them. Thinking all was over Davies returned to the hole, when a third explosion took place, injuring his face and eyes. He was riding with several other men on a truck containing slabs; seeing a stone on one of the rails he jumped off and rain in front of the truck him so violently that he died in the course of a few hours. A wagoon went off the rails on an incline, and some of the load fell on him. Pell over a natural precipice used as a tip-close to his working place. See Chapter 111., Prosecutions.	o III	100
20 tarch 24 2 26 pril 13 to 1 26 to 2	11 13 21 23 31 45 69 63 63	Aberilefenny - Oakeley Upper- Rhiwbach - Conglog Aberilefenny - Oakeley Upper-	David Jones - Robert Owen - Edward Evans - John Jones - Robert Davies - Robert Davies - Lloyd Roberts. Robert Evans - John Tudor Roberts.	Miscellan Tipman Labourer Slate-maker Carter Rockman Labourer Quarryman Saw sharpener	18 46 16 50 48 69 69 74	1 month 1 month 1 month 1 month 1 month	His father was turning over a block of slate, and, though warned, the son did not keep sufficiently clear. Foot struck and hurt. He took a sprag out of the wheel of a waggon, when it moved suddenly and struck him. He was riding on a truck with a lead of rubbish and fell off; the truck went over his arm and broke it. A piece of stone fell from a loaded waggon on to his leg. A hole 5 ft. deep was charged with a little dynamite and 2 lbs. of gunpowder. The powder appears to have got damp, for it made two reports and a fizzing noise between them, Thinking all was over Davies returned to the hole, when a third explosion took place, injuring his face and eyes. He was riding with several other men on a truck containing slabs; seeing a stone on one of the rails he jumped off and ran in front of the truck to kick it off. Unfortunately has sipped and feil, and the truck struck him so violently that he died in the course of a few hours. A wageon went off the rails on an incline, and some of the load fell on him. Pell over a natural precipice used as a tip close to his working place. See Chapter III., Prosecutions. Fall of about 2 yards from a ladder while helping another man to tighten the bolts of a water-wheel. Slipped on some ice on an incline and	o III	10

The results of these tables are as follows :-

	other !	Lead, Z Mines, ex e Slate M	clusive	Slate Mines.			Totals	Totals for all the Mines.		
Cause of Accident.	Number of separate acci- dents.	Number	Number of persons injured.	Number of separate acci- dents.	bersons	Number of persons injured.	Number of separate acci- dents.	Number	Number of persens injured.	
Explosions of fire-damp		_	_	_	_	_	_	_	-	
Falls of ground	4	-	4	11	2	10	15	2	14	
In Shafts.										
Overwinding	-	-	-	-	-	-	_	=	-	
Ropes or chains breaking Whilst ascending or descending by	1	_	1	_	_	-	1	-	1	
machinery. Falling into shaft from surface -	-	_	-	-	_	-		-	-	
Things falling from surface	-	-		-	-	-	3	-	3	
Falling from part way down Things falling from part way down	3 2	_	3 2			-	2		2	
Miscellaneous in shafts	-	-	-	-	_	-	_		_	
Total in shafts	6	-	6	-	-	-	6	-	6	
MISCELLANEOUS UNDERGROUND.										
Explosions of gunpowder, &c	. 3	-	3	5	2	7	8	2	10	
Suffocation by gases	=	=		_	_	=		=	_	
Falling into water	- 1	1	-	-	-	-	1	1	-	
On menned planes	1	_	1	3	_	3	4	=	4	
By machinery underground -	-	-		4	1	3	4	1	3	
Sundries underground	4		4	13	1	14	17	1	18	
Total miscellaneous underground	- 9	1	8	25	4	27	34	5	35	
On Surface.	The same	131	1	-	The Later	1-1-	1	100	13000	
by machinery on continue		-	-	2	-	2	2	-	2	
Boilers bursting Miscellaneous on surface -	- 5	=	5	10	2	8	15	2	13	
Total on surface	- 5	-	5	12	2	10	17	2	15	
Gross total	- 24	1	23	48	8	47	72	9	70	

The total number of accidents reported is one more than in 1885; there is a decrease of 10 in the number of persons killed, and an increase of 12 in the number of persons injured.

The causes of fatal accidents in 1886 may be compared with those of the 11 previous years by the following table:—

GENERAL TABLE OF FATAL ACCIDENTS AND DEATHS AT THE MINES IN DR. C. LE NEVE FOSTER'S DISTRICT FROM 1875* TO 1886.

mile Bookson (est Amilion	Number of Fa	tal Acciden	ts.	Number of the	Deaths resu refrom.	lting
	Totals for the 10 years 1875 to 1884.	1885.	1886.	Totals for the 10 years 1875 to 1884.	1885.	1886.
Falls of ground	42	8	2	46	9	2
In Shafts.		NO.			1	
Overwinding	1	-	-	1	-	-
Ropes and chains breaking - Whilst ascending or descending	nd to overber of	artic rods	100,00	Colors Carne	1	-
by machinery	2	-	-	2	-	-
Falling into shaft from surface - Things falling from surface -	2		Too.	2	二	0 =
Falling from part way down -	19	-	-	19	-010	-
Things falling from part way	7	1	_	7	1	1000
Miscellaneous in shafts -	0- 1	- 1	-10	1 WH 198	-	
Total in shafts	32	1		33	1	-
Miscellaneous Underground.						1
Explosions of gunpowder, &c	31	-	2	35	-	2
Suffocation by gases		1	-		3	_
Irruptions of water Falling into water		-	1		-	1
On inclined planes	-	1	-		1	-
By trams and tubs By machinery underground	3	1	1	4	1	1
Sundries underground	36	1	1	37	1	1
Total miscellaneous -	71	4	5	77	6	5
On Surface.	Total State of the last	10 B	1 1 21 94	241 S. 1 304	1300	-
By machinery on surface	13	2	-	13	2	-
Boilers bursting Miscellaneous on surface -	1 19	1	2	4 21	1	2
Attacenaneous on surface -					-	-
Total on surface	33	3	2	38	3	2
Gross total	178	16	9	194	19	9

^{*} In 1873 and 1874 the accidents in slate mines were not included, and for that reason the statistics for those years are not added to the table.

Few of the accidents call for any special remark. At the metal mines proper none were due to infringements of the Act, and the only one which was attended with a fatal result was caused by foolhardiness. A huge underground cavern had been discovered at Halkyn mine, and the agent made use of a small boat to explore it. After he went away a blacksmith, who, I am told, had never been in a boat before, jumped in out of pure curiosity, and when a little way from the shore of the underground pond foolishly stood up in his frail craft,

which capsized and he was drowned.

At the slate mines there were as usual numerous accidents from falls of ground, and, as I have already pointed out on more than one occasion, casualties of this kind are inseparable from the method of working adopted. The worst accident arose from an explosion of gunpowder carried in calico bags, which caused the death of a lad and severe injuries to three men. An account of the prosecution consequent upon this breach of the Act is given in the next chapter, which also contains the result of the proceedings taken against the cwners and agents of the Oakeley mines with reference to the death of an aged quarryman, killed by falling over a precipice close to his working place.

The following tables are given, as usual, for the purpose of affording a comparison between the dangers of slate mines and those of other mines:—

TABLE showing the DEATH-RATE FROM ACCIDENTS at the MINES in DR. C. LE NEVE FOSTER'S DISTRICT.

Silami	Persons employed.			Number of Deaths from Accidents.			Number of Persons	Death-rate from Accidents per 1,000 Persons employed.			
Year.	Under- ground.	Above Ground.	Total.	Under- ground.	Above Ground.	Total.	for One Death by Accident.	Under- ground.	Above Ground.	Total.	

COPPER, LEAD, ZINC, and other MINES, exclusive of the Slate Mines.

*Averages for the 10 years 1875 1884.	4,684	3,002	7,686	8.4	1.2	9.6	800	1.79	0.40	1.24
1885	2,322	1,653	3,975	8	1	9	441	3.44	0.60	2.26
1886	2,634	1,882	4,516	1	-	= 1	4,516	0.37	of a red too	0.22

SLATE MINES.

*Averages for the 10 years 1875 to 1884.	2,248	2,481	4,729	7.2	2.6	9.8	482	3.20	1.04	2.07
1885	2,404	2,414	4,818	8	2	10	481	3.32	0.82	2.07
1886	2,263	2,361	4,624	6	2	8	578	2.65	0.84	1.73

TOTALS for all the MINES.

*Avera	years 1		6,932	5,483	12,415	15.6	3.8	19-4	640	2.25	0.69	1.56
1885	W 9500	-	4,726	4,067	8,793	16	3	19	462	3.38	0.73	2.16
1886		-	4,897	4,243	9,140	7	2	9	1,015	1.42	0.47	0.98

^{*} The details for each of the 10 years will be found in the "Reports of the Inspectors of Mines for the year 1884," p. 206.

These tables show that at the metal mines proper the very low death-rate last year counterbalances the high figure of 1885, and I wish to give agents and men every credit for the fact that only one person was killed, and that he met with his death through his own rashness, in a manner wholly unconnected with the dangers of his calling.

At the slate mines there is a slight improvement compared with 1885.

On the whole, 1886 was an unusually favourable year as regards immunity from accidents in my district,

CHAPTER III.—PROSECUTIONS: BARMOUTH, BENALLT, BRYNFELIN, DIPHWYS CASSON, GREAT MANOD, RUSHEN, SNOWDON, AND WRYSGAN MINES.—BUGAIL AND OAKELEY UPPER MINES.

I received official instructions to take legal proceedings in eight cases last year; the particulars are set forth below :---

Name and Description of Mine.	Name and Description of Offender.	Nature of Offence.	Result of Hearing.	Penalty.	Costs.
Multipopola il putt	det they were conste	of the terms of the	ing so what run	£ s. d.	10.1
Barmouth (Manganese)	John Abraham, owner -	Breach of section 28 - Breach of 38 & 39 Vict. c. 39, s. 1.	Conviction -	2 0 0 2 0 0	} 2 12 0
Benallt (Manganese)	James Fagan, owner	4 breaches of section 23 (7).	Abrahab ada zen	1 0 0	1 4 12 6
Brynfelin (Copper) -	George Banner, person in- terested in the minerals.	Breach of section 28 - 10 breaches of section 13	Summons dismissed	0 5 0	3 15 0
Diphwys Casson (Slate)	Diphwys Casson Slate Co., Limited, owners.	Breach of section 23 (2) b.	Conviction	0 2 6	No costs
Great Manod (Lead) -	Evan Parry Jones, agent - B. Langdale Barrow, owner	"" " " " "	Laurganos of	0 2 6 0 1 0	1 1 0
Rushen (Lead)	John Roberts, agent - W. J. P. Pittar, owner - John Barkell, agent -	Breach of section 23 (1)	madi de la	0 1 0 2 0 0 1 0 0	0 7 10 0 7 10
Snowdon (Copper) -	Dowager Lady Williams Bulkeley, person interested in the minerals.	3 breaches of section 13	unde to men	0 3 0	No costs allowed.
Wrysgan (Slate) -	L. D. Bunn, owner - Wrysgan Slate Quarry Co., Limited, owners,	Breach of section 23	Summons dismissed.	6 0 0	4 4 0
* "	Robert Roberts, agent Wrysgan Slate Quarry Co., Limited, owners.	2 breaches of special rule 55.	Conviction Summons dismissed.	1 0 0	1 13 1
horaci e di c	Robert Roberts, agent -		Conviction -	5 0 0	0 12 6
	Bullanunbiolds oil	Total fines and cos	ts -	20 15 0	20 6 9

Barmouth.—Mr. Abraham's neglect consisted in having omitted to send me an annual return and to post up an Abstract of the Act.

Benallt.—Mr. Fagan was carrying on mining work without any regard to the provisions of the law, and I thought it important in this as in the previous case to call the attention of other mine owners in the district to the requirements of the Act by means of a prosecution.

Brynfelin.—On the 14th July last I sent Mr. Banner notice in writing to fence the tops of ten disused mine-shafts which had been reported to the Home Office by the Chief Constable of Carnarvonshire as being dangerous. Finding on the 31st August that there were no signs of any disposition on Mr. Banner's part to comply with my notice, I informed you of his neglect and received your instructions to prosecute him.

At the hearing of the case his solicitor produced evidence to show that he was making preparations to fence the shafts before my report was sent to you, and, although he ought to have fenced the most dangerous shafts several years ago without any notice at all from me, the magistrates refused to convict him. Still, as he had to pay the costs, he did not escape entirely unpunished.

Diphwys Casson.—In spite of the conviction of the managers of two neighbouring mines for similar offences, the agent of Diphwys Casson allowed gunpowder to be carried underground in calico bags, and the consequence of his imprudent breach of the law was a fatal accident, of which I have already given particulars.

a fatal accident, of which I have already given particulars.

When the summons was heard at Penrhyndeudraeth, the solicitor for the defendants contended that, as the Act simply prescribed that gunpowder was to be taken into the mine in "a case or canister," without defining the nature of the case, his clients had not committed any offence; in other words, he argued that a calico bag was a "case" within the meaning of the Act. My advocate pointed out that the word "case" had to be construed with due regard to the purpose for which it was used, and asked that a reasonable and ordinary meaning should be put upon it consistent with the context of the Act. The justices dismissed the summons, but consented to state a case for a superior court.

The appeal was heard last January in the Queen's Bench Division of the High Court of Justice before Lord Coleridge, Lord Chief Justice, and Mr. Justice Grove.

The following report of the judgment is taken from "The Times," 21st January 1887.

Lord Coleridge said he was of opinion that the decision of the magistrates was wrong, and that they ought to have convicted. The question put in the case must be answered in the contrary way to that in which the magistrates had decided it, and they had decided it wrongly. He was clearly of opinion that a linen or cotton bag was not a "case" within the meaning of this Act. The object of the rules and requirements of the Act was to protect human life and to prevent danger of explosion. It was to give effect to true rules of construction to hold that the words "case" or "canister" explained one another, and that "case" meant something in the nature of a canister, something solid and substantial, and fitted to resist ignition from a spark or other accidental cause, because that was the object of the Act, and in so construing the terms of the Act they were construing it according to its object. He was clearly of opinion that the magistrates were wrong in holding that a linen or cotton bag could be within the Act, and that they ought to have convicted and must proceed to convict the defendants.

Mr. Justice Grove entirely concurred. It would never, he said, have occurred to his mind that a "case" meant a bag. If "case" might mean a linen or cotton bag, it might mean a paper bag or a handkerchief—which would be liable to the most imminent danger of explosion from a spark, especially such hard, sharp sparks as emanated from the workings of mines. To construe the words otherwise would be to construe them contrary to the whole object of the Act, and the plain meaning to be derived from the context in which the words were used. There were no words which might not, by taking them out of their context, be made to mean the direct contrary of what was intended. And the whole object of the Act would be defeated and destroyed by that mode of construction. The true question was: What was the sense in which the words were used in this Act? He was clearly of opinion that the word "case" meant in this Act something hard and solid in its nature, which would prevent the danger of ignition by an accidental spark—as a "case"

or canister" in that sense would, but a cotton bag would not.

The case was therefore sent back to the magistrates to convict. They then imposed fines of 2s. 6d. and refused to allow costs; but as the defendants had to pay the costs of the appeal in London, they were in reality heavily mulcted for the fatal breach of the law.

Great Manod. ←On visiting this mine in November 1885 I found a calico bag containing 3 lbs. of gunpowder lying upon a partly burnt candle.

Rushen.—In 1885 the owner of this mine was fined 1/. for not providing adequate ventilation. When visiting the mine last year I found men working in some stopes where my candle went out completely when I held it upright. The agent admitted to me that the men had been working for three weeks in this noxious atmosphere.

Snowdon.—On the 20th June 1885 I sent a notice to the agent of the lessor, the Dowager Lady Williams Bulkeley, begging him to fence three pits. Lady Bulkeley's solicitors replied, "We will see that the matter is duly attended to." On the 5th July 1885 I had an interview with Mr. Bunn, the lessee, and he also promised that fences should be erected.

On the 21st April 1886 nothing had been done; however, as soon as legal proceedings were commenced, Lady Bulkeley's agent set men to work in earnest and the pits were speedily fenced. They are all close to one of the most frequented paths up Snowdon, and one of them, a huge chasm, was specially dangerous to tourists.

Wrysgan.—In December 1884 I found gunpowder being taken into the mine in calico bags. I at once gave the company notice in writing to abandon this practice and the secretary promised immediate attention. Finding in November 1885 that the use of the calico bag had not been entirely discontinued, it seemed to me desirable to enforce the law by a prosecution.

In July 1885 I gave the company notice in writing to fence a dangerous underground travelling road in three places; after the lapse of more than four months two of the places

were still unfenced.

In addition to these eight prosecutions I may mention two others which related to events that took place in 1886, but which do not appear in my list as the summonses were not heard till this year.

Bugail.—On the 1st October last I met a lad carrying 4 lbs. of gunpowder in a calico bag into the underground workings, and a few weeks afterwards 1 found that gunpowder was conveyed underground in a canister containing 8 or 9 lbs. In spite of two copies of the Abstract of the Act being posted up on the premises, and of my notices in writing that only 4-lb. canisters should be used, the agent professed ignorance of the

gunpowder regulations. The company and agent were convicted, and each had to pay 31. 3s. 11d. in fines and costs.

Oakeley Upper.—An elderly quarryman, named John Tudor Roberts, was allowed to make slates within a few feet of a high natural precipice over which rubbish was tipped. In some unexplained manner he fell over and was killed. I reported the matter to you, and pointed out that if there had been a fence the man's life might have been saved; but I expressed some doubt whether there was a sufficiently clear breach of the Special Rules to make a prosecution desirable. The Rules say that, "every dangerous pathway or road in the mine" is to be "securely fenced."

Acting under your instructions I prosecuted the company, managing director, and resident agent. The question before the Bench was simply this: "Is the edge of a high and precipitous 'tip,' where two lines of rails terminate, 'a dangerous pathway or road.'"
The justices dismissed the summons; but as they refused to allow the defendants any costs, and said that I was fully justified in bringing the case before them, I had no reason to be

dissatisfied with their decision.

I believe that the prosecution will have a good effect in showing the public that where there is a semblance of an accident having been caused by a breach of an official regulation, the matter will not be allowed to pass unnoticed by the Government.

Mr. James S. Gell of Castletown, Isle of Man, acted as my advocate in the Rushen case, and all the other prosecutions were conducted by Mr. J. P. Cartwright, solicitor, of Chester.

The widows of the three men drowned by an irruption of water at Pantgwyn mine in 1885 have each received 87. 10s. from the fines inflicted by the magistrates, and the sum of 141. 10s. remains deposited in the Post Office Savings Bank,

CHAPTER IV .- GENERAL REMARKS.

EXEMPTIONS UNDER THE SLATE MINES (GUNPOWDER) ACT. SPECIAL RULES. ABANDONED MINES. PLANS. NEW MINES. MANGANESE MINING IN MERIONETHSHIRE. VENTILATION. BARRACKS FOR WORKMEN. CRANE ACCIDENTS. IMPROPER CONVEYANCE AND THAWING OF DYNAMITE. SUMMARY OF WORK.

In accordance with section 2 (4) of the Slate Mines (Gunpowder) Act, 1882, I have the honour to report that there are now three slate mines holding exemptions from section 23 (2) (a), (b), (c), and (e) of the Metalliferous Mines Regulation Act, 1872, viz., Aberllefenny, Llechwedd, and Oakeley; under this latter name are included the Oakeley Middle and Oakeley Upper of former lists, now amalgamated into one mine. The new code of Special Rules established at the Oakeley mines in 1883 was adopted at Aberllefenny and Llechwedd when the exemptions were granted.

Special Rules are also in force at the following mines :-

Minera. Rules established in 1876. See Report of H.M. Inspectors of Mines for 1876,

Tan-y-bwlch. Rules established 9 July 1878. See Report of H.M. Inspectors of Mines

for 1878, p. 463,

Braichgoch, Bryneglwys, Bugail, Bwlch-y-Slater, Carlyle, Crown, Cwmorthin, Cymerau, Diphwys Casson, Gaewern, Maengwynedd, Moelferna, New Conglog, Palmerston, Park, Penarth, Ratgoed, Rhiwbach, Rhosydd, Voelgron, Votty and Bowydd, Wrysgan. See Report of H.M. Inspectors of Mines for 1878, p. 460. One rule at Maen Offeren slate mine is slightly different, as will be seen by reference to the same report, p. 462.

Additional Special Rules were established at Bryneglwys in June 1882.

On the 29th January last special rules were established at the Artro, Diphwys, Hafotty, Harlech and Moelfre manganese mines, which belong to the Dyffryn Mining Company. I have removed from my list the names of the following mines, which have been

abandoned :-

Cardiganshire .- Mynydd Gorddu. Carnarvonshire.-Ellen, Rheuadrwst.

Denbighshire.—Great New Westminster, Llandegla, Plas du and Park.

Flintshire .- Dafarn Dywyll, Dyserth Castle and Gop, Pennant, Queen of the Mountain, Vron.

Merionethshire.-Pioneer, Tyddyngwladis.

Montgomeryshire. - Cwmgwnen, Middletown Hill, Moelfre, North and South Llangynog Shropshire.—Crickheath.

Isle of Man .- Kirkmichael,

The plan and section of Mynydd Gorddu mine are at the Home Office, and plans of Pennant and Kirkmichael mines ought to be supplied. The others were all small mines not ordinarily employing 12 persons below ground.

Considering the state of the metal market, my district may be congratulated upon the

number of new mines started or of old mines revived in 1886, viz. :-

Cardiganshire.—Bwlchgywn, Cwmbrwyno, Kingside, Llwynteify, Penrhiw and Ystumtuen, Talybont, Temple, Tyllwyd and Gelli-arian.

Carnarvonshire.—Aberllyn, Benallt, Gorlanfarchog, Rhiw. Denbighshire.—Nant-y-plwm, True Blue, Westminster.

Flintshire.-Hopeful, West Halkin.

Merionetheshire.—Artro, Crafnant, Cwm Mynach, Diphwys, Graig ucha, Lletty Walter, Mynydd Llanbedr, Penisarcwm.

Montgomeryshire.-Penclyn.

The most important mining event in my district last year has been the working of a deposit of carbonate and silicate of manganese near Barmouth and Harlech, in Merionethshire. The ore occurs in the form of a bed or seam, interstratified among rocks of Cambrian age, and varying from a few inches to three or four feet in thickness; the average thickness is 12 to 18 inches. The per-centage of metallic manganese varies from 20 to 32, and the ore is sent to Mostyn and Darwen for the manufacture of spiegeleisen and ferromanganese. The quantity of ore produced in 1886 amounted to 11,256 tons, worth 7,897%, and the output for this year will probably be very much greater. It is gratifying to me to record the birth of a new mining industry, and to be able to state that the bed has been traced over a considerable area, and that the existence of large stores of the novel kind of ore has been proved beyond doubt.

Ventilation.—In my last report I dwelt at some length upon the subject of ventilation, and my experience of this year confirms my opinion that it will be impossible for me to secure a thoroughly sufficient air supply in all working places unless the first general rule is made more definite and stringent.

Barracks for workmen.—The reply often made to me when I complain of bad ventilation in a stuffy rise or end is: "The air here is nothing like so bad as you would find it in the men's bedrooms." I have therefore taken the opportunity of examining some of the barracks, where men whose homes are distant find it convenient to live from the Monday to the Saturday. There are undoubtedly cases of overcrowding, and I thought it my duty to call the attention of Mr. Hugh Rees, medical officer of health for the district, to the barracks at Rhosydd quarry, at the head of an out-of-the-way valley near Festiniog. He agreed with me that it was not right that there should be scarcely 200 cubic feet of space per man in rooms used for sleeping, taking meals, and keeping provisions and coal. I have left the matter in his hands. The men were pearly all sleeping two in a bed, and some of the rooms were dark, with a bad floor and an indifferent roof.

While blaming the Rhosydd Company for the manner in which they have been housing their men, I must not fail to mention an instance of an opposite kind. At some barracks built by Mr. Dunlop for the Oakeley quarries, each man has his own sleeping room, separate from a central refectory; and there is an air of comfort and decency which contrasts favourably with the untidy and dirty appearance of the rooms at Rhosydd. These barracks are more in accordance with my ideas of what is due from an employer to his workmen.

Prevention of Crane Accidents.—My list shows one fatal and three non-fatal accidents with cranes, and in 1885 the number of casualties was greater. As a rule, these accidents happen while lowering blocks, when a pawl cannot be used. The man sometimes loosens his hold too soon, thinking that a block which has reached the ground is resting firmly, instead of which the block lurches a little, and a slight movement of the chain, multiplied by the gearing, causes the crane-handle to fly round violently and inflict a severe or fatal blow. In order to prevent these accidents, Mr. Edward Hughes, of Maentwrog, proposes to drive the barrel by a worm, and so prevent any unintentional movement of the crane. Though there is a certain loss of speed, this is compensated by gain in safety and in power, and the invention deserves the attention of quarry owners.

Conveyance and thawing of Dynamite, &c.—I frequently have to complain of dynamite and similar explosives being taken underground without any proper substantial case. A paper box is considered sufficient by many miners; and I have seen dynamite stowed away in a worn-out shoe and in an old teapot. I fear I shall not be able to enforce the use of secure cases until some of the managers have been prosecuted.

Irregular and dangerous methods of thawing dynamite are often resorted o instead of using proper warming pans. Three men were slightly injured at Roman Gravels mine last January from the explosion of some dynamite remaining in a can of water in which they had been heating their cartridges; and a few weeks ago I myself discovered dynamite being heated in a tin over a lighted candle. It is true that in this case the tin containing the cartridges was placed in another full of water: but if either receptacle had leaked-and no one can vouch for the staunchness of an old and battered meat-tin-an explosion would very likely have occurred. Mr. H. S. Lancaster, the manager of the mine, prosecuted the workman under one of his Special Rules, and the man was convicted. As it was the first offence, Mr. Lancaster asked for a mere nominal penalty, and the fine inflicted was only 1s.

This prosecution will do good in the immediate neighbourhood; and the attention of mine agents generally has been called to the danger of irregular methods of thawing dynamite through circulars distributed by Nobel's Explosives Company. On the other hand, I have found statements in the instructions for using dynamite, issued by another company with each package of the explosive, so calculated to mislead agents and men with regard to its freedom from danger that I have pointed them out to Her Majesty's Chief Inspector of Explosives, in the hope that he will be able to prevent their being repeated.

During the year 1886 I travelled 8,807 miles while engaged upon my official duties, viz., 7,450 by rail, 1,157 by road, and 200 by sea. I made 223 visits to mines, of which 114 included underground as well as surface inspection. Most of these visits were made without notice. Official work in London occupied me 33 days.

> I have, &c., C. LE NEVE FOSTER, (Signed) H.M. Inspector of Mines.

The Right Hon. Henry Matthews, Q.C., M.P., Her Majesty's Principal Secretary of State, Home Department, Whitehall, London.

LIST of OWNERS, MINES, and AGENTS, under the METALLIFEROUS MINES REGULATION ACT, in NORTH WALES, Part of SOUTH WALES, SHROPSHIRE, and the ISLE OF MAN.

					2030
	Name of Mine. Italics denote Mines	in the control of	miles oid by a		ordinarily d during r 1886.
Owner or Company, and Postal Address.	suspended during the whole of 1886, but not abandoned.	Situation.	Agent.	Be low Ground.	Above Ground.
			The latest and an area	The state of	Lange Control
	ANGLES	EY.		onnilo	
T. Fanning Evans, Almweh Ditto	Mona Morfa du Parys	Amlweh Ditto Ditto	T. Fanning Evans - Ditto Ditto	16 8 1	74 2 21
	and a similar said	o (188 listley)	Total	25	97
	TEST MILE	QUAL TRANSPORT BE		Share la	-builter
	BRECONSI	HIRE.			
Nant-y-Garw Co., Address C. W. Seccombe, Gunnislake, Tavistock.	Nant-y-Garw -	Llanwrthwl -	Henry Phillips -	15	2
	CARDIGAN	SHIRE.			
C. O. Rogers, 10, Blomfield Street, London,	Blaen Caelan -	Talybont	THE IS O	1 -	100
E.C. Blaen United Mining Co., Ltd., 4, New Broad	Blaen United -	Llanfihangel, Lower	AND STATE	-	-
Street, London, E.C. John Jenkins, Peter Jones, and G. Jones, Bronfloyd Mine, Bow Street, R.S.O., Cardi-	Bronfloyd -	Penrhyncoch -	Peter Jones -	12	-
ganshire. Edward Bennett, Tavistock Lodge, Harlesden, London, N.W.	Brynarian -	Taliesin	George J. Gray -	2	-
Evan Reese, Bank Place, Machynlleth Bryn-yr-Afr Mine Co., Ltd., 15, Lord Street Liverpool.	Bryn Dyfi - Bryn-yr-Afr -	Glandovey - Seven miles from Talybont.	Evan Reese J. Phillips	23	27
Cardigan United Mints, Ltd., Aberystwith -	Bwlehgwyn and Llwynteify.	Ponterwyd -	A. Williams -	4	5
James McIlquham & Co., Aberystwith -	Buck United - (including Pen- craigddu and	Goginan, Aberyst- with.	William Northey -	-	-
Caelan and Cefngwyn United Mining Co., Ltd., J. Basil Masefield (sec.), Ledbury,	Caenant.) Cefngwyn -	Elerch, near Taly- bont.	-	-	1
Herefordshire, and Ynysfaig, Dolgelly. C. O. Rogers, 10, Bloomfield Street, London, E.C.	Court Grange -	Near Aberystwith -	_	-	-
Crown Mining Co., W. J. Lavington, Secre- tary, Dashwood House, New Broad Street, London, E.C.	Croten	Ponterwyd -	David Daniel -	3	-
Cardigan United Mines, Ltd., Aberystwith - W. Sadler, 105, Bow Road, Mile End, Lon- don, E.	Cwmbrwyno - Cwmerfyn -	Cwmbrwyno - Llanbadarn Fawr -	A. H. Jenks - J. H. Roberts -	8	10 2
Cwmystwyth Co., Ltd., John Taylor and Sons, 6, Queen Street Place, London, E.C.	Cwmystwyth -	Cwmystwyth, near Devil's Bridge.	Jos. B. Rowse -	57	46
Dolelettwr and Llain-hir Copper and Lead Mining Co., Ltd., 92, West Regent Street, Glasgow.	Dolelettwr and Llain-hir.	Taliesin	J. H. Clint -	12	6
John Taylor and Sons, 6, Queen Street Place, London, E.C.	East Darren -	Goginan, Aberyst- with.	Thos. Garland -	24	35
Erglodd United Mines Co., Ltd., in liquidation, Thomas Williams, Liquidator, 40, North Parade, Aberystwith.	Erglodd United -	Talybont	-	-	-
Cambrian Mining Co., Ltd., Pinner's Hall, Old Broad Street, London, E.C.	Esgairfraith (or Cambrian.)	Talybont	Henry James -	9	7
Esgair-hir Mining Co., Ltd., Pinner's Hall, Old Broad Street, London, E.C.	Esgair-hir (work recom- menced March	Talybont	Henry James -	-	-
P. Baker, Bute Dock Chambers. Cardiff, and James McIlquham, Aberystwith.	Esgairmwyn and Ddu. (Stopped March	Strata Florida -	-	-	-
R. Attenborough, 2, Whitley Grove, Reading John Kitto and Son, Llanidloes	Florida Frongoch	Ditto Devil's Bridge -	R. Crouch John Kitto and	9 54	10 68
Goginan Realization Co., Ltd., John Kitto	Goginan	Seven miles from	Son. Ditto	8	13
and Son, Llanidloes. P. Baker, Bute Dock Chambers, Cardiff	Great Darren -	Aberystwith. Goginan, Aberyst- with.	William Jones -	-	-
West Esgair Lle Mining Co., A. E. Wenham, Secretary, 114, Colmore Row, Birmingham.		Ponterwyd -	A. E. Wenham	- (530a)	1 .

LIST of OWNERS, MINES, and AGENTS, under the METALLIFEROUS MINES REGULATION ACT, in NORTH WALES, Part of SOUTH WALES, SHROPSHIRE, and the ISLE OF MAN—cont.

Owner or Company, and Postal Address.	Name of Mine. Italies denote Mines suspended during	Situation.	Agent.	Persons employe the year	
courts senter the sent	the whole of 1886, but not abandoned.	The state of the s		Below Ground.	Above
	CARDIGANSH	IRE—cent.			
rogwinion Consolidated Mining Co., Ltd.,	Grogwinion	Pontrhydygroes -	John Kitto and	2	4
John Kitto and Son, Llanidloes. he Kingside Mining Co., Ltd., 5, Queen Street Place, London, E.C.	Kingside - (Started January	Cwmystwyth -	Son. J. B. Rowse -	-	-
ohn Taylor and Sons, 6, Queen Street Place,	1887.) Lisburne	Yspytty Ystwith,	Peter Garland -	54	59
London, E.C. ynach Vale Mining Co., Ltd., 15, Lord	Mynach Vale -	Pontrhydygroes. Devil's Bridge -	J. Phillips	4	1
Street, Liverpool. corge Green, The Foundry, Aberystwitn,	Nantycria	Ponterwyd -	Richard Jones -	4	-
and T. S. G. Kirkpatrick.	North Grogwinion	Pontrhydygroes -	John Kitto and	_	-
John Kitto and Son, Llanidloes. arhiw and Ystumtuen Mines Co., c/o	Penrhiw and	Ponterwyd -	Son. Ponterwyd	4	10-
George Green, Foundry Aberystwith. Thomas, Mid Wales Villa, Llanidloes	Ystumtuen. Plynlimmon -	Ponterwyd -	W. Thomas		
well Mines Co., Ltd., Goginan, Aberyst- with.	Powell	Ditto - Near Crosswood -	N. Bray John Kitto -	8	10
Kitto, Llanidloes - ere Powys, 1, Lincoln's Inn Fields, London,	Red Rock Rheidol United -	Cwm Rheidol -	D. Lambert -	10	10
W.C. Iver Brook Mining Co., Ltd., F. E. Briggs, Secretary, 22, Royal Exchange, Leeds.	Silver Brook - (Formerly Silver	Goginan	William Jones -	-	-
outh Darren Mining Co., IAd., J. H. Murchison, Secretary, 8, Austin Friars,	Stream.) South Darren -	Goginan, Aberyst- with.	John Mitchell -	30	3
London, E.C. lybont Silver Lead Mining Co., Talybont Glandovey, R.S.O.	Talybont - (Formerly Allt-y- crib and North	Talybont	A. H. Jenks -	30	1
enry Mallory, 44, High Street, Warwick - urdigan United Mines, Ltd., Aberystwith - urdigan United Mines, Ltd., Aberystwith -	Cardigan.) Tanyrallt Temple Tyllwyd and Gelli-	Talybont Devil's Bridge - Cwm Rheidol -	J. Davies A. H. Jenks - Ditto -	7 16 10	-
Phillips and N. Bray, Goginan, R.S.O.,	reinin. Tyn-y-Fron -	Cwm Rheidol -	J. Phillips.	-	-
Cardiganshire. aughan Mines Co., Ltd., in liquidation, Charles Hurlbatt, Liquidator, 6, Queen's	Vaughan	Near Goginan, Aberystwith.	T. Garland.	-	-
Street Place, London, E.C. emyss Mines, Limited, Dinas, Aberystwith -	Wemyss	Cwmnewyddion,	W. Michell -	6	
Williams, Trefechan Saw Mills, Aberyst-	West Egair Lle	near Devil's Bridge. Ponterwyd -	A. E. Wenham -	15	
with. strad Einion Mining Co., Adam Mason,	Ystrad Einion -	Glandovey	Thomas Thompson	3	
Horwich, Bolton.	1000		Totals	437	37
	Barrens -	- Common or	1		
	The second second	About well -		Ser.	-
	CARNARVO			9 191	
'. Jones & Co., Mount Pleasant, Bettws-y- coed.	Aberllyn	Bettws-y-coed -	W. Jones	1	-
D. Bunn, Dawlish	Arran and Snow- don (formerly Maudslay.)	Beddgelert		100	
anc Roberts and Owen Williams, Rhiw, Saro, Pwllheli.	Benallt	Rhiw	Isaac Roberts -	1	
hos, Green, Bridge Gate House, Chester -	Braich-yr-oen -	Cwm Llan, Beddge- lert,	W. E. Parry -	-	-
and T. Cartwright, 10, Bridge Street,	Bryneisteddfod -	Parish of Bettws- y-coed.	T. Cartwright -	3	-
Chester. 'Illiam Veitch, Trefriw, R.S.O. 'Irmarvonshire Great Consols Lead Mining Co., Ltd., 85, Gracechurch Street, London,	Cae Coch Carnarvon Great Consols.	Trefriw Llanrwst	W. Veitch W. H. Borlase.	74	2:
E.C. sed Mawr Pool and Fridd Lead Mining Co., Ltd., H. V. Taylor, Secretary, 91, Finsbury	Coedmawr Pool and Fridd.	Bettws-y-coed -	William Heard -	-	-
Pavement, London, E.C. onway Valley Freehold Copper Mining Co., Ltd., Albion Bank and Discount Co., Ltd., Sheffield Buildings, 89, Victoria Street,	Conway Valley -	Conway		-	-
Liverpool. wm Dwyfor Mining Co., Ltd., George J. Gray, Secretary, St. Clement's House,	Cwm Dwyfor -	Pennant Valley, near Rhyd ddu.	Geo. J. Gray.	-	-
Clement's Lane, London, E.C.					

LIST of OWNERS, MINES, and AGENTS, under the METALLIFEROUS MINES REGULATION ACT, in NORTH WALES, Part of SOUTH WALES, SHROPSHIRE, and the ISLE OF MAN—cont.

	Name of Mine. Italics denote Mines	in the second		employe	ordinarily d during r 1886.
Owner or Company, and Postal Address.	suspended during the whole of 1886, but not abandoned.	Situation.	Agent.	Below Ground.	Above Ground.
	-				- 10
	CARNARVONSI	HRE-cont.			
D'Eresby Mountain Lead Mining Co., Ltd., Llanrwst, and Gracechurch Buildings,	D'Eresby Moun- tain.	Llanrwst	John Roberts -	26	13
London, E.C. Drws-y-Coed Copper Mining Co., Ltd., Pen-y-groes, R.S.O.	Drws-y-Coed -	Nantlle Vale -	T. S. Allison -	-	2
Executors of Geo. Beckingsale, C. Gregory, 81, Bishopsgate Street Within, London,	East Wheai George	Llanrwst.	1	-	-
E.C. The representatives of the late Alexander Cork King, and the mortgagee Edward Bridges. Address: Messrs. Snowball	Glyn	Capel Curig.	-		-
Smith & Co., 5, Cresshall Street, Liverpool. Goddard's Mining Co., Ltd., E. Beazley, 6 and 7, Coleman Street, London, E.C.	Goddard's -	Llanrwst.	-	-	=
Thomas Evans, Aberllyn, Bettwa-y-coed - Hafna Mining and Smelting Co., Llanrwst -	Gorlanfarchog - Hafna and Great	Llanrwst	Thomas Evans - H. Wolff	3	-4
Llangelynin Mining Syndicate, R. T. Ellis, Trefriw, R.S.O.	D'Eresby. Llangelynin -	Conway	R. T. Ellis -	3	-
North D'Eresby Mountain Lead Co., Ltd., E. Beazley, 6 and 7, Coleman Street,	North D'Eresby -	Trefriw.	THE REAL PROPERTY.	NAME OF	-
London, E.C. Pantgwyn Mining Company, Abersoch, Pwll- heli.	Pantgwyn	Abersoch, Pwll- heli.	John Craze -	56	52
Laura Jones and James Fagan, Bryncelyn House, Nantlle Vale, Pen-y-groes, R.S.O.	Rhiw	Rhiw	James Fagan -	2	1
Standard Lead Mine, Ltd., Llaurwst J. W. Gwynne Hughes, Tregil, Llandilo -	Standard - Symddeddulluan (formerly Car-	Ditto Nantlle Vale -	W. H. Borlase	28	20
Tan-y-bwleh and Bwleh-y-toeyn Mining Co.,	narvon Copper). Tan-y-bwlch	Abersoch, near Pwllheli.	Geo. F. Pearson -	. 4	3
Ltd., Abersoch, near Pwilheli. Vale of Conway Lead Mining Co., Ltd., 2, Lancaster Place, London, W.C., and Griffith Williams, Slate Quarries Quay,	Vale of Conway -	Trewydyr.	Service Andreas	-	-
Carnarvon. Peter Jones, 1, Marine Terrace, Portmadoc -	West Port Nigel -	Aberdaron	-	-	
	distribute.	180	Totals	203	129
	The state of the s	- memory - m			and the latest
	DENBIGHS	HIRE.			
Mold District Lead Co., Ltd., c/o E. J. Bart- lett, 70 and 71, Bishopsgate Street,	Aberduna	Mold.		-	-
London, E.C. T. A. Craig, 139, St. Vincent Street, Glasgow	Belgrave	Erryrys, Llanar- mon-in-Yale.	Evan Roberts.	-	-
J. P. Davies, Flint - J. A. Ede, Laburnum Villa, Erryrys, Mold -	Bryn Nant Llech Brynymwyn	Llansannan - Llanarmon-in-Yale	Thos. Williams. J. A. Ede -	2	=
Cefn-y-gist Mining Company, Minera, Wrex- ham.	Cefn-y-gist -	Minera	Sampson Michell.	2.70	-500
Peter Jones, Maesysafn, Mold John and Richard Roberts and others, J. Roberts, Talwrn, near Liddartfanny,	Cornwallis West - Craig boeth -	Ruthin Minera	Peter Jones - John Roberts -	4	=
Wrexham. Creigiog Mining Co., Ltd., 10, Coleman Street, London, E.C.	Creigiog (formerly Bodidris).	Llanarmon-in-Yale	H. Hotehkiss.	Alexander of the last	-
Alfred Jones, Crest View, Denbigh	Crest View (Stopped Nov. 1886.)	Denbigh	Alfred Jones	2	-
Dyffryn Aled Copper Mine Co., Llansannan, Abergele.	(Stopped Aug. 1886.)		Richard Douglas -	2	-
W. Evans and others. Address: W. Evans, New Brighton, Wrexham. Lady Ann Silver Lead Mining Co., Ltd.,	Eglwyseg - (Stopped Oct. 1886.) Lady Ann -	Llangollen - Near Llanarmon -	W. Evans - William Francis.	-	
13, Clegg Street, Oldham, and Wm. Francis, 99, Edge Lane, Liverpool. John Morris Foulkes and Edward Evans,	Llewelyn	Minera	J. M. Foulkes -	4	200
Church Street, Coedpoeth, Wrexham. Minera Mining Co., Ltd., Minera, near Wrex-		Minera, near Wrex-	Josiah Ball -	232	277
ham. Minera Mountain Lead Mining Co., Ltd., S.	Minera Mountain	ham. Minera Mountain -	Sampson Michell.	34	27
Michell, Minera, Wrexham.	Mines. Minera Consols	Minera.	10 P. 41 20 3	-	-
Minera Consols Co., Ltd., S. P. Gilbert, Devenshire Chambers, Bishopsgate Street,	(includes West Minera).	The state of the s	THE PERSON NAMED IN	The state of	10000

LIST of Owners, Mines, and Agents, under the Metalliferous Mines Regulation Acts, in North Wales, Part of South Wales, Shropshire, and the Isle of Man—cont.

	Name of Mine. Italies denote Mines	15-0		employe	ordinarily d during ar 1886.
Owner or Company, and Postal Address.	suspended during the whole of 1886, but not abandoned.	Situation.	Agent.	Below Ground.	Above Ground.
Second Second Co.					
	DENBIGHSHI	RE—cont.			
George Dawes, The Hall, Smethwick, Bir-		Parish of Llanferres	Rupert Prince -	3	1
mingham. Pant Glas Mine Co.; W. Francis, 48, Windsor Road, The Brook, Liverpool, and Erryrys.	las. Pant Glas	Llanarmon-in-Yale	William Francis -	2	-
Mold. E. Wheldon and H. Ll. Jones, Hill Grove,	Pant-y-gwianod -	20 20 20	-	4	2
Mold. North Wales Iron Ore Co., W. A. Hills, Anglesey Copper Works, Low Walker,	(Abandoned in 1886.) Ty'n y Caeau	Abergele -	W. A. Hills.	ALTERNA	parts.
Newcastle-on-Tyne. Thomas Williams, Gegin Old Road, Minera,	True Blue	Minera	Thomas Williams	3	1
Wrexham. Tynyddol Mining Co. Address: R. Douglas,	Tynyddol	Llanfairtalhaiarn -	R. Douglas -	3	-
Llansannan, Abergele. C. J. Gibbons, Plas Maelor, Wrexham -	(Stopped July 1886.) Union and Boun-	Minera, near Wrex-	C. J. Gibbons -	2	-
Westminster Mining Co., Llanarmon, near	dary. Westminster -	ham. Llanarmon -	Evan Roberts -	6	10-10
Mold. John L. M. Fraser, Rhosddu, Wrexham -	(Started in 1886.) Westminster Bog-	Llanarmon, Mold -	J. L. M. Fraser.	-	-
Total E. M. Elect, Marchay, Williams		The second less	Total -	312	308
	A STATE OF THE PARTY OF THE PAR	949			
	FLINTSI	HRE.			
Thomas Gee, Denbigh	Bodfari	Bodfari.	100	1	-
Rupert Prince and others, Mold	Bryn-hyfryd -	Mold	Rupert Prince -	2	-
T. Hughes and partners, 3, Gladstone Build-	Clwt-y-Militia -	Brynford, Holywell	Robert Evans -	4	-
ings, Rhyl. Coitia Mawr Lead Mining Co.; John Lloyd,	Coitia Maur -	Gwernaffield, Mold	John Lloyd.	-	-
Antelope Inn, Rhydymwyn, Mold. Robert Evans, and Thomas Hughes, 1, Vale	Coppa'r Fran -	Holywell	G. Harrison -	2	-
Road, Rhyl. East Long Rake Lead Mining Co., Ltd., Granite Buildings, 6, Stanley Street, Liver-	East Long Rake -	Rhes-y-Cae, Hal- kin, Holywell.	-	-	-
pool. John Edwards and Co., Wern Gaer, Rhosesmor,	Ffagnallt	Halkyn	John Edwards -	4	-
near Halkyn. J. B. Payne, 28, Brazennose Street, Man-	Flintshire Lead	Mold	Thomas Miners.	-	-
chester. John Clay, Rhuddlan, near Rhyl	Foel Hiraddug -	Cwm, near Rhyl -	M. A. Gage -	6	-
Fron Hall United Mining Co., Ltd., J. E.	Fron Hall United	Gwernymynydd,	John Mansbridge -	3	-
Edwards, Town Hall, Chester. Rev. D. Jones, Brynford Rectory, Holywell -	Gladstone -	Mold. Brynford, Holywell.	_	-	-
Golden Grove Mine Co., Ltd., Gwaenvsgor,	Golden Grove -	Gwaenysgor -	-	-	-
Rhyl. W. C. Bew, Venice Chambers, 61, Lord Street, Liverpool.	Charles 100	10000	1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0 100	1
Gorsedd and Sinclair United Mines, Ltd., 7, Queen Victoria Street, London, E.C.	Gorsedd and Sin- clair.	Gorsedd, near Holy- well.	W. T. Harris -	14	2
Holywell Lime and Cement Co., Ltd., Holywell.	Grange	Holywell	Robert Peek -	6	-
Great Holway Lead Mining Co., Ltd., 10, Coleman Street, London, E.C.	Great Holway -	Holway, near Holy- well.	W. T. Harris -	69	24
Grosvenor Lead Mining Co., Ltd., 9 and 10, Cambridge Chambers, Lord Street,	Grosvenor	Halkyn, near Holywell.		-	-
Gwaenysgor Mining Co., Ltd., W. C. Bew,	Gwainysgor -	Gwaenysgor -	- 100 - 100 m	-	-
Venice Chambers, 61, Lord Street, Liverpool. Gwern-y-mynydd Mining Co., Ltd., Mold -		Mold	Benjamin Williams	25	11
Halkyn Mining Co., Ltd., Halkyn, Holywell -	Halkyn	Holywell	Matthew Francis -	68	47
Halkyn District Mines Drainage Co., Halkyn,	Halkyn Drainage	Halkyn	F. S. Williams -	1	-
Holywell District Lead Co., Ltd., Ethel- barga House, Bishopsgate Street, London,	Works. Holywell District (formerly West Holway).	Holywell -	W. T. Harris -	10	3
E.C. Samuel Davis and others, Bagillt	Hopeful	Holywell	Thomas Pierce -	2	-
Hope Mountain Silver Lead Mining Co., Ltd. Address: G. Francis, Greenfields,	Hope Mountain -	Ffrith, near Wrex-	George Francis.	-	-
Rhosddu, Wrexham.					

List of Owners, Mines, and Agents, under the Metalliferous Mines Regulation Act, in North Wales, Part of South Wales, Shropshire, and the Isle of Man—cont.

Construction of Post 133	Name of Mine. Italics denote Mines	Old-ud-		employe	ordinarily d during ar 1886.
Owner or Company, and Postal Address.	suspended during the whole of 1886, but not abandoned.	Situation.	Agent.	Below Ground.	Above Ground.
	FLINTSHIRI	E-cont.			
James Goddard and Co., Pant-y-go, Halkyn,	Moel-y-crio	Halkyn	James Goddard -	3	-
Holywell. Holywell Lime and Cement Co., Ltd., Holy-	Nant	Holywell	Robert Peek -	4	1000
well. Evan Roberts & Co., Belgrave Mine, Llan- armon, Mold.	New East Pant Du (formerly East Pant	Nerquis	Evan Roberts.	-	-
Edward and Robert Jones, Holway, Holywell	Du). New Pant-y-Ne -	Holway, Holywell	E. M. Evans -	2	-
North Henblas Mine Co., Ltd., Mortgagees of Messrs. Laces & Co., Union Court,	North Henblas -	Milwr, Holywell -	W. J. Bew.	-	-
Liverpool. North Hendre Lead Mining Co., Ltd., T. J. Powell, Secretary, 14, Newgate Street, Chester.	North Hendre -	Near Mold -	Goodman Ellis -	38	3
John N. Brown, Anglesey House, Handsworth, Birmingham.	North Pant-y-go -	Halkyn	William Wasley -	7	4
A. Champ and T. Pierce, Pantasaph, Holywell	North Pant-y-Ne -	Holywell	T. Pierce	2	-
Pant-y-Buarth and Coed-y-fedw Lead Mines Co., Ltd., Ethelburga House, Bishopsgate Street, London, E.C.	Pant-y-Buarth -	Gwernaffield, near Mold.	Rupert Prince -	5	1
Pant-y-Mwyn Lead Mining Co., Ltd., 41, Ormond Street, Liverpool.	Pant-y-Mwyn -	Near Mold.	-	-	-
John N. Brown, Anglesey House, Hands- worth, Birmingham.	Pant-y-Pydew	Holywell	Llewelyn Jones -	20	5
Pant-y-Rhes and Pen-y-bryn Mining Co., Ernest A. Craft, Secretary, Halkyn, Holy- well.	Pant-y-Rhes and Pen-y-bryn.	Halkyn	John Lloyd	2	-
 Williamson, S. S. Williamson, O. J. Williamson, and others, Parry's Mine, Halkyn, Holywell. 	Parry's Mine	Halkyn, Holywell	Jos. Hodgkinson -	2	-
John Phillips and Co., Pen-y-Ball, Holywell -	Picton	Pen-y-Ball, Holy- well.	-	-	-
Plas-yn-Rhos Mining Co., J. H. Lewis, Central Buildings, North John Street, Liverpool.	Plas-yn-Rhos -	Rhosesmor.		-	-
Pwll Gwyn Llan Mining Co., E. Astbury, Secretary, Grosvenor Cottage, Northop.	Pwll Gwyn Llan -	Ditto	Edward Williams -	2	-
Rhosesmor Mining Co., Wakefield and Enoch, Secretaries, 16, Corn Exchange Chambers, Chester.	Rhosesmor -	Halkyn, Holywell	Thomas Parry	46	12
Rhydalun Mining Co., Ltd., in liquidation, J. E. Edwards, liquidator, 29, Eastgate Row North, Chester.	Rhydalun	Rhydymwyn, near Mold.	Matthew Francis.	-	-
Joseph Edwards, and others, Red Houses, Holywell.	Saithaelwyd -	Holywell.	-	-	-
Cooper and Harding, Sir Edward Mine, Holywell.	Sir Edward -	Holywell -	Joseph Eustice -	2	2
Owen Evans & Co., 14, Dinorwic Street, Carnaryon.	South Pwll Gwyn Llan.	Halkyn -	Owen Evans -	-	-
Speedwell and Grange Lead Mining Co., James Hughes and others, Star Inn, Holy- well.	Speedwell and Grange.	Holywell	James Parry -	2	-
Messrs. Bowers, Ffoulkes, and others, c/o T. J. Powell, 14, Newgate Street, Chester.	Talacre	Gronant	Henry Ellis -	70	26
Edward Pierce, Trelogan Hall, Llanasa, Holywell.	Trelogan	Llanasa	Edward Pierce -	4	-
Ucha United Mines, Ltd., Gwern-y-mynydd, Mold.	Ucha United	Gwern-y-mynydd, Mold.	Luther Martin -	2	-
Victor Lead Mining Co., Ltd., Thomas Hugbes, Secretary, 9 and 10, Cambridge Chambers, Lord Street, Liverpool.	Victor	Rhydymwyn, near Mold.	T. Hughes -	4	3
Vron Lead Mining Co., Ltd., e/o Messrs. Lindsay and Co., 84, Basinghall Street, London, E.C.	Vron - (Abandoned 1885)	Hendre, Mold -		-	1
Henry Jones, Bryn-y-berthen, Ysceifiog, Holywell.	Wagstaff	Halkyn	Henry Jones -	10-00	-
Westminster Consols, Limited, W. Grant, Secretary, 23, Queen Anne's Gate, West- minster, London, S.W.	Westminster Consols	Holywell	Cowell Hilden.	-	-
West Halkyn Mining Co. Halkyn, Holywell -	West Halkyn -	Halkyn	E. L. Owen -	-	12
West Trelogan Mine Co. Address: Robert Evans, 1, Vale Road, Rhyl.	West Trelogan -	Llanasa	Robert Evans -	12	7
Robert Griffiths & Co., Gwernaffield, Mold -	White Sand	Gwernaffield, Mold	Robert Griffiths -	3	-
	The second second	Special Control	Totals -	450	163

DR. C. LE NEVE FOSTER'S REPORT.

LIST of OWNERS, MINES, and AGENTS, under the METALLIFEROUS MINES REGULATION ACT, in NORTH WALES, Part of SOUTH WALES, SHROPSHIRE, and the ISLE of MAN—cont.

Owner or Company, and Postal Address.	Name of Mine, Italics denote Mines	Situation.	Agent.	Persons of employed the year	d during
Owiger or Company, and I could reduce	suspended during the whole of 1886, but not abandoned.			Below Ground.	Above Ground
	MERIONETH	SHIRE.			
Dyffryn Mining Co., Llanbedr, R.S.O	Artro	Llanbedr	H. S. Lancaster -	24	9
John Abraham, Northfield, Birmingham British Silver Lead Mining Co., Ltd, J. L. M. Fraser, St. James Terrace, Rhosddu,	Barmouth British Silver Lead Mine.	Barmouth Blaenau Festiniog	John Abraham - J. L. M. Fraser.	250	-
Wrexham. Clogau Mining Company, Ltd., Bont-ddu,	Clogau	Near Bont-ddu, Dolgelly.	W. A. De la Beche, Ramsay.	-	-
Dolgelly. Merionethshire Mining Co., Llanbedr, R.S.O. Henry Mandslay, c/o Messrs. Barnard & Co.,	Crafnant	Llanbedr Beddgelert.	Edward Stables -	_7	_2
47, Lincoln's Inn Fields, London, W.C. Merionethshire Mining Co., Llanbedr, R.S.O.	Cwm Mynach -	2 miles N. of Pen- maenpool.	Edward Stables	36	9
Dyffryn Mining Co., Llanbedr, R.S.O.	Diphwys	Near Diphwys Mountain.	H. S. Lancaster -	5	17
New Glasdir Mining Co., Ltd., c/o R. Smith, 4, New Broad Street, London, E.C.	Glasdir	Llanfachreth, near Dolgelly.		-	-
Merionethshire Mining Co., Llandebr, R.S.O.	Graigucha -	4 miles E. of Llan- bedr.	Edward Stables -	-	5
B. L. Barrow, Sydnope Hall, Matlock, Derby- shire.	Great Manod -	Manod Mawr, Fes- tiniog.	B. L. Barrow -	2	-
Mawddach Gold Mining Co., Ltd. (in liquida- tion), 19, Birchin Lane, London, E.C.	Gwynfynydd -	Gwynfynydd -	J. N. Longden -	4	-
Dyffryn Mining Co., Llanbedr, R.S.O.	Hafotty	Barmouth -	H. S. Lancaster -	35	4
John Williams, Madryn, Pwllheli - Dyffryn Mining Co., Llanbedr, Merioneth -	Hafod-y-Spytty - Harlech -	Festining	H. S. Lancaster.	28	1
Merionethshire Mining Co., Llanbedr, R.S.O. Dyffryn Mining Co., Llanbedr, Merioneth	Lletty Walter - Moelfre	Llanbedr Dyffryn	Edward Stables - H. S. Lancaster -	27 21	1
Merionethshire Mining Co., Llanbedr, R.S.O.	Mynydd Llanbedr	3 miles E. of Llan- bedr.	Edward Stables -	11	1
H. Hands, 32, Wimpole Street, London, W Merionethshire Mining Co., Llanbedr, R.S.O.	Mynydd Nodol - Penisarcwm -	Bala 2 miles E.S.E. of Llanbedr.	Edward Halse - Edward Stables -	12	2
Henry Maudslay, c/o Messrs. Barnard & Co.,	Sygun	Beddgelert	Charles Kneebone	-	130
47, Lincoln's Inn Fields, London, W.C.	- THE STATE OF THE	and believed I are to		1000	1
47, Lincoln's Inn Fields, London, W.C.	This way	50 hours 74	Totals	212	10)
47, Lincoln's Inn Fields, London, W.C.	Total Street	STORY OF	Totals	212	10.
47, Lincoln's Inn Fields, London, W.C.	MONTGOMER	YSHIRE.	Totals	212	10.
47, Lincoln's Inn Fields, London, W.C.	MONTGOMER		Totals	212	10.
F. C. Hills & Co., Deptford, London, S.E Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, vià Dolgelly, and J. B. Masefield, Secretary, Ledbury.				212	10)
47, Lincoln's Inn Fields, London, W.C. F. C. Hills & Co., Deptford, London, S.E. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, viâ Dolgelly, and J. B. Masefield, Secretary, Ledbury, Hernfortshire.	Berwyn Phosphorite	Near Llangynog. Pennant, Llanbrynmair. Penegoes, Ma-	John Hughes -	212	10.
47, Lincoln's Inn Fields, London, W.C. F. C. Hills & Co., Deptford, London, S.E Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, viâ Dolgelly, and J. B. Masefield, Secretary, Ledbury, Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd.,	Berwyn Phosphorite	Near Llangynog. Pennant, Llanbrynmair.	John Hughes -	212	10.
47, Lincoln's Inn Fields, London, W.C. F. C. Hills & Co., Deptford, London, S.E. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, vià Dolgelly, and J. B. Masefield, Secretary, Ledbury, Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings,	Berwyn Phosphorite Caelan Cwmbyr	Near Llangynog. Pennant, Llanbrynmair. Penegoes, Machynlleth.	John Hughes -	212	10.
47, Lincoln's Inn Fields, London, W.C. F. C. Hills & Co., Deptford, London, S.E Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, viâ Dolgelly, and J. B. Masefield, Secretary, Ledbury. Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cemorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings, 49, Queen Victoria Street, London, E.C. Blaentwymyn Mining Syndicate, Ltd., 20,	Berwyn Phosphorite Caelan Cwmbyr Cwmorog	Pennant, Llanbryn- mair. Penegoes, Ma- chynlleth. Llangynog -	John Hughes - G. W. Griffiths - A. E. Wenham.	4 2	10
47, Lincoln's Inn Fields, London, W.C. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, vià Dolgelly, and J. B. Masefield, Secretary, Ledbary, Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings, 49, Queen Victoria Street, London, E.C. Blaentwymyn Mining Syndicate, Ltd., 20, Moorgate Street, London, E.C.	Berwyn Phosphorite Caelan Cwmbyr Cwmorog Cyfartha - Dylife Geifron and Gwes-	Near Llangynog. Pennant, Llanbrynmair. Penegoes, Machynlleth. Llangynog - Penegoes	John Hughes - G. W. Griffiths - A. E. Wenham. Frank Kitto -		10.
47, Lincoln's Inn Fields, London, W.C. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, viâ Dolgelly, and J. B. Masefield, Secretary, Ledbury. Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings, 49, Queen Victoria Street, London, E.C. Blaentwymyn Mining Syndicate, Ltd., 20, Moorgate Street, London, E.C. John Kitto and others, Lianidloes W. Lefeaux and Co., Llanidloes	Berwyn Phosphorite Caelan Cwmbyr Cwmorog Cyfartha - Dylife	Pennant, Llanbrynmair. Penegoes, Machynlleth. Llangynog - Penegoes - Llanbrynmair -	John Hughes - G. W. Griffiths - A. E. Wenham. Frank Kitto - Evan Evans -		10.
F. C. Hills & Co., Deptford, London, W.C. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, vià Dolgelly, and J. B. Masefield, Secretary, Ledbury. Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings, 49, Queen Victoria Street, London, E.C. Blaentwymyn Mining Syndicate, Ltd., 20, Moorgate Street, London, E.C. John Kitto and others, Llanidloes	Berwyn Phosphorite Caelan Cwmbyr Cwmorog Cyfartha - Dylife Geifron and Gwestyn. Glangwden - Llanerchyraur - Middletown Hill - (Abandoned July	Pennant, Llaubrynmair. Penegoes, Machynlleth. Llangynog - Penegoes - Llanbrynmair - Near Llanidloes - Ditto -	John Hughes - G. W. Griffiths - A. E. Wenham. Frank Kitto - Evan Evans - J. Kitto. W. J. Lefeaux.	4 2	10
F. C. Hills & Co., Deptford, London, W.C. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, viâ Dolgelly, and J. B. Masefield, Secretary, Ledbury, Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings, 49, Queen Victoria Street, London, E.C. Blaentwymyn Mining Syndicate, Ltd., 20, Moorgate Street, London, E.C. John Kifto and others, Llanidloes Sir John Conroy, Bart., Keble College, Oxford.	Berwyn Phosphorite Caelan Cwmbyr Cwmorog Cyfartha - Dylife Geifron and Gwestyn. Glangwden - Llanerchyraur - Middletown Hill -	Pennant, Llanbrynmair. Penegoes, Machynlleth. Llangynog - Penegoes - Llanbrynmair - Near Llanidloes - Ditto - Llanbrynmair - Middletown -	John Hughes - G. W. Griffiths - A. E. Wenham. Frank Kitto - Evan Evans - J. Kitto. W. J. Lefeaux. Thomas Owen.	- 4 2 2	10
F. C. Hills & Co., Deptford, London, W.C. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, vià Dolgelly, and J. B. Masefield, Secretary, Ledbary, Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings, 49, Queen Victoria Street, London, E.C. Blaentwymyn Mining Syndicate, Ltd., 20, Moorgate Street, London, E.C. John Kitto and others, Llanidloes W. Lefeaux and Co., Llanidloes Sir John Conroy, Bart., Keble College, Oxford. Cliff Dale Barytes Co., Pontesbury, Salop W. Lefeaux and Co., Llanidloes New Llangynog Lead Mining Co., Ltd. (in	Berwyn Phosphorite Caelan Cwmbyr Cwmorog Cyfartha - Dylife Geifron and Gwestyn. Glangwden - Llanerchyraur - Middletown Hill - (Abandoned July 1886.)	Pennant, Llanbrynmair. Penegoes, Machynlleth. Llangynog - Penegoes - Llanbrynmair - Near Llanidloes - Ditto - Llanbrynmair - Middletown - Plynlimmon Mountain. Llangynog, near	John Hughes - G. W. Griffiths - A. E. Wenham. Frank Kitto - Evan Evans - J. Kitto. W. J. Lefeaux. Thomas Owen. W. Boustred -	- 4 2 2 3	10.
47, Lincoln's Inn Fields, London, W.C. E. C. Hills & Co., Deptford, London, S.E. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, viâ Dolgelly, and J. B. Masefield, Secretary, Ledbury, Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings, 49, Queen Victoria Street, London, E.C. Blaentwymyn Mining Syndicate, Ltd., 20, Moorgate Street, London, E.C. John Kitto and others, Llanidloes W. Lefeaux and Co., Llanidloes Sir John Conroy, Bart., Keble College, Oxford. Cliff Dale Barytes Co., Pontesbury, Salop W. Lefeaux and Co., Llanidloes New Llangynog Lead Mining Co., Ltd. (in liquidation), Engineer's Office, Ruabon. Penclyn Mining Co., 14, Newgate Street,	Berwyn Phosphorite Caelan Cwmbyr Cwmorog Cyfartha - Dylife Geifron and Gwestyn. Glangwden - Llanerchyraur - Middletown Hill - (Abandoned July 1886.) Nantiago New Llangynog -	Near Llangynog. Pennant, Llanbrynmair. Penegoes, Machynlleth. Llangynog - Penegoes - Llanbrynmair - Near Llanidloes - Ditto - Llanbrynmair - Middletown - Plynlimmon Mountain.	John Hughes - G. W. Griffiths - A. E. Wenham. Frank Kitto - Evan Evans - J. Kitto. W. J. Lefeaux. Thomas Owen. W. Boustred - W. Lefeaux -	- 4 2 2 3	10
47, Lincoln's Inn Fields, London, W.C. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, viâ Dolgelly, and J. B. Masefield, Secretary, Ledbury, Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings, 49, Queen Victoria Street, London, E.C. Blaentwymyn Mining Syndicate, Ltd., 20, Moorgate Street, London, E.C. John Kitto and others, Llanidloes Sir John Conroy, Bart., Keble College, Oxford. Cliff Dale Barytes Co., Pontesbury, Salop W. Lefeaux and Co., Llanidloes W. Lefeaux and Co., Llanidloes W. Lefeaux and Co., Ilanidloes New Llangynog Lead Mining Co., Ltd. (in liquidation), Engineer's Office, Raabon. Penclyn Mining Co., 14, Newgate Street, Choster. Snowbrook Silver Lead Mining Co., Ltd., F. E. Briggs, Secretary, 22, Royal Ex-	Berwyn Phosphorite Caelan Caelan Cumbyr Cumorog Cyfartha Dylife Geifron and Gwestyn. Glangwden - Llanerchyraur - Middletown Hill - (Abandonned July 1886.) Nantiago New Llangynog - Penclyn Snowbrook	Pennant, Llanbrynmair. Penegoes, Machynlleth. Llangynog - Penegoes - Llanbrynmair - Near Llanidloes - Ditto - Llanbrynmair - Middletown - Plynlimmon Mountain. Llangynog, near Oswestry.	John Hughes - G. W. Griffiths - A. E. Wenham. Frank Kitto - Evan Evans - J. Kitto. W. J. Lefeaux. Thomas Owen. W. Boustred - W. Lefeaux - Henry Dennis. Leigh Howell -	- 4 2 2 3 4	10
F. C. Hills & Co., Deptford, London, W.C. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, vià Dolgelly, and J. B. Masefield, Secretary, Ledbury, Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings, 49, Queen Victoria Street, London, E.C. Blaentwymyn Mining Syndicate, Ltd., 20, Moorgate Street, London, E.C. John Kitto and others, Llanidloes W. Lefeaux and Co., Llanidloes W. Lefeaux and Co., Pontesbury, Salop W. Lefeaux and Co., Llanidloes W. Lefeaux and Co., Llanidloes New Llangynog Lead Mining Co., Ltd. (in liquidation), Engineer's Office, Ruabon. Penclyn Mining Co., 14, Newgate Street, Chester.	Berwyn Phosphorite Caelan Caelan Cumbyr Cumorog Cyfartha - Dylife Geifron and Gwestyn. Glangwden - Llanerchyraur - Middletown Hill - (Abandoned July 1886.) Nantiago New Llangynog - Penclyn Snowbrook Ty issa (formerly	Pennant, Llaubrynmair. Penegoes, Machynlleth. Llangynog - Penegoes - Llanbrynmair - Near Llanidloes - Ditto - Llanbrynmair - Middletown - Plynlimmon Mountain. Llangynog, near Oswestry. Llanidloes - Parish of Llangurig	John Hughes - G. W. Griffiths - A. E. Wenham. Frank Kitto - Evan Evans - J. Kitto. W. J. Lefeaux. Thomas Owen. W. Boustred - W. Lefeaux - Henry Dennis. Leigh Howell -	- 4 2 2 3 4	100
F. C. Hills & Co., Deptford, London, W.C. Caelan, Cefn Gwyn, and Potosi United Mining Co., Limited, Ynysfaig House, vià Dolgelly, and J. B. Masefield, Secretary, Ledbary, Herefordshire. J. Hughes Jones and Griffith W. Griffiths, Machynlleth. Cwmorog Silver Lead Mining Co., Ltd., 114, Colmore Street, Birmingham. Frederick Last and Sons, Albert Buildings, 49, Queen Victoria Street, London, E.C. Blaentwymyn Mining Syndicate, Ltd., 20, Moorgate Street, London, E.C. John Kitto and others, Llanidloes W. Lefeaux and Co., Llanidloes Sir John Conroy, Bart., Keble College, Oxford. Cliff Dale Barytes Co., Pontesbury, Salop W. Lefeaux and Co., Llanidloes New Llangynog Lead Mining Co., Ltd. (in liquidation), Engineer's Office, Ranbon. Penelyn Mining Co., 14, Newgate Street, Chester. Snowbrook Silver Lead Mining Co., Ltd., F. E. Briggs, Secretary, 22, Royal Exchange Chambers, Leeds.	Berwyn Phosphorite Caelan Caelan Cumbyr Cumorog Cyfartha Dylife Geifron and Gwestyn. Glangwden - Llanerchyraur - Middletown Hill - (Abandoned July 1886.) Nantiago New Llangynog - Penclyn Snowbrook Ty issa (formerly Cae Conroy). Van	Pennant, Llaubrynmair. Penegoes, Machynlleth. Llangynog - Penegoes - Llanbrynmair - Near Llanidloes - Ditto - Llanbrynmair - Middletown - Plynlimmon Mountain. Llangynog, near Oswestry. Llanidloes - Parish of Llangurig	John Hughes - G. W. Griffiths - A. E. Wenham. Frank Kitto - Evan Evans - J. Kitto. W. J. Lefeaux. Thomas Owen. W. Boustred - W. Lefeaux - Henry Dennis. Leigh Howell - R. B. Edwards.	- 4 2 - 2 3 4 - 5	101

LIST of OWNERS, MINES, and AGENTS, under the METALLIFEROUS MINES REGULATION ACT, in NORTH WALES, Part of SOUTH WALES, SHROPSHIRE, and the ISLE of MAN—cont.

efaultur olereri anno levelere and talk on	Name of Mine.	No to the last of				ordinarily d during ar 1886.
Owner or Company, and Postal Address.	suspended during the whole of 1886, but not abandoned.	Situation.		Agent.	Below Ground.	Above Ground
	MONTGOMEDUS	HIDP				
Cliff Dala Barries Co. Pantashury Salan	Weston	Chirbury -	- 31	W. R. Croft	4	-
Cliff Dale Barytes Co., Pontesbury, Salop - West Wye Valley Mining Co., Ltd., Llanidloes.	West Wye Valley	Pantmawr -	-	J. Kitto and Son.	-	-
Wye Mining Co., Ltd., Llanidloes	Wye (formerly Wye Valley).	Llangurig	-	J. Kitto and Son.	-	-
	, and ,			Totals -	95	81
	DIRWONA					to various
	RADNORSH			m M. No.		11.0
Thomas Meredith, Dryscol, Rhayader, Rad- norshire.	Dryscol	St. Harmon -	-	Thomas Meredith -		_
	SHROPSH	TRE.				
Tankerville Great Consols Co., Ltd.,	Bog Mine			Arthur Waters and	10026	1 200
Minsterley, and 8, Austin Friars, London, E.C.	Doy Mine	Dimoterie)		Son.		11.33
Bulthy Mine Lead and Barytes Works Co., Middletown, Welshpool.	Bulthy	Middletown		Edgar O. Ferguson	4	11
R. and C. Gill, 13, Rumford Street, Liverpool	Crickheath (Abandoned June 1886.)	Pant		Joseph Henderson	6	3
East Roman Gravels Mining Company, Ltd., in liquidation, Wm. Edwards, Liquidator, Griffin Works, Wolverhampton.	East Roman Gravels	Worthen -	100	Arthur Waters and Son.	5	1
W. Boustred and G. Young, Pontesbury, Salop.	East Wotherton -	Near Chirbury	-	Wm. Boustred -	10	1
North Tankerville Mining Co., James Yelland, Pontesbury.	North Tankerville	Worthen -	-	James Yelland -	3	3
Tankerville Great Consols Co., Ltd., Minsterley, and 8, Austin Friars, London,	Pennerley	Minsterley -	-	Arthur Waters and Son.	-	-
E.C. S. M. Ridge, South Roman Gravels Mine,	Perkins Beach -	Worthen -	-	S. M. Ridge -	5	1
Minsterley. Roman Gravels Mining Co., Ltd., 30,	Roman Gravels -	Minsterley -	-	Arthur Waters and Son.	124	58
Finsbury Circus, London, E.C. James Yelland and William Boustred, Pon-	Roman Gravels Boundary.	Ditto -		-	-	-
tesbury. Smilbeach Lead Mining Co., Ltd., Minsterley,	Snailbeach -	Minsterley -	-	Henry Dennis -	89	61
Shrewsbury. South Roman Gravels Mining Co., Ltd., 22, Royal Exchange, Leeds.	South Roman Gravels(including Ladywell.)	Ditto -	-	S. M. Ridge -	13	1
Steeraway Lime Co., Wellington Tankerville Great Consols Co., Ltd., Minsterley, Salop, and 8, Austin Friars,	Steeraway - Tanherville -	Wellington Worthen -	-	John O. Owen - Arthur Waters and Son.	16	
London, E.C. Wotherton Barytes and Lead Mining Co., Limited, 71, Tower Buildings, Liverpool.	Wotherton	Chirbury -	. 102	Wm. Vincent -	12	22
	-			Totals -	287	166
	TOTAL OF	WAN				
Bell Abbey and Falcon Cliff Mines Co.,	ISLE OF I	Rushen.				-
Ltd., W. C. Bew, Sec., Venice Chambers, 61, Lord Street, Liverpool.	Falcon Cliff.			O MAL DELL	100	11
Central Foxdale Silver Lead Mining Co., LAd., Thomas Hughes, Secretary, 10, Cambridge Chambers, Lord Street, Liver-	Central Foxdale -	Marown	-	John Gendle -	58	33
pool. Isle of Man Mining Co., Ltd., Foxdale,	Foxdale	Foxdale -	-	Wm. Kitto -	233	193
near Douglas. John Beckwith, 9, Liver Chambers, Liver-	Garth	Marown -	7	W. H. Kitto -	2	10 -40
Ditto Great Laxey Mining Co., Ltd., Laxey Derbyhaven Trial Co. (in liquidation),	Glen Darraugh - Great Laxey - Languess	Marown. Laxey Glen Castletown.	-	F. Reddieliffe -	275	205
W. Todhunter, Douglas. North Laxey Mining Co., Ltd., 26, Athol	North Laxey -	Maughold -	-	Valla- Valla	-	1
Street, Douglas. W. J. Pittar & Co. Rushen Mine, Colby -	Rushen Snaefell	Colby - Lonan -		R. Barkell - J. Kewley -	8 20	5 20
Snaefell Mining Co., Ltd., W. E. Young, Secretary, Athol Street, Douglas.				The state of the s		100

LIST of OWNERS, MINES, and AGENTS, under the METALLIFEROUS MINES REGULATION ACT, in NORTH WALES, Part of SOUTH WALES, SHROPSHIRE, and the ISLE of MAN—cont.

			1000000		
	Name of Mine.	a Sanat		Persons ordinarily employed during the year 1886.	
Owner or Company, and Postal Address.	Italics denote Mines suspended during the whole of 1886, but not abandoned.	Situation.	Agent.	Below	Above
James County	Dat 107 House			Ground.	Ground.
	SLATE M	INES.			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CARNARVON		1000	1	
Bugail Slate Co., Ltd., Portmadoc	Bugnil	Parish of Pen- machno.		18	35
O. C. Hughes, Trefriw, R.S.O. Prince Llewelyn Slate Co., 36, Chapel Street, Liverpool.	Clogwyn Prince Llewelyn -	Trefriw Dolwyddelen -	O. C. Hughes - Daniel Williams -	4	5
Prince of Wales Slate Co., Ltd., St. Clement's House, Clement's Lane, London,	Prince of Wales -	Rhyd-ddu-	Geo. J. Gray	5	8
E.C. Festiniog Slate Co., Ltd., Deganway,	Rhiwbach (Old and New).	Rhiwbach, Pen- machno.	Jas. G. Tuxford -	17	120
Conway.	and New J.	Inicono.	Totals -	49	173
	DENBIGHS	SHIRE.			
Thomas Ford, Hallfield, Alfreton	Craig-yr-oryn -	Glyn Ceiriog, Llan-	T. L. Phillips -	1	1
Maengwynedd Slate and Slab Co., Llan-	Maengwynedd -	gollen. Llanrhaiadr -	Wm. Thos. Owen	2	-
rhaiadr, Oswestry. Pantglas Slate and Slab Quarry Co., Ltd., Llangollen.	Pantglas Middle- vein.	Eglwyseg Llan- gollen.	F. E. Rooper -	4	-
				7	1
				-	
	MERIONETE	ISHIRE.		Carry .	
Abercorris Slate and Slab Co., Ltd.,	Abercorris	Corris	J. W. Orehard	16	21
Corris, Machynlleth. R. D. Pryce, Cyfronydd, near Welshpool	Aberllefenny -	Aberllefenny, near Corris.	David Jones -	72	68
John Jones, Tyisafyrhos, Groeslon, R.S.O.,	Braich Ddu -	Maentwrog and Trawsfynydd.	- 6	-	-
Carnarvon. Braichgoch Slate Quarry Co., Ltd., Corris,	Braichgoeh (in- cluding Gaewern).	Corris -	Edwd. Williams -	135	122
R.S.O. W. McConnel, Towyn, R.S.O.	Bryneglwys and Cantrybedd.	Llanfibangel-y-Pen- nant.	Meyrick Roberts	144	131
Bwleh-y-Slater Slate Quarry Co., 36, Eastgate	Bwlch-y-Slater -	Festiniog	F. F. Brown -	22	19
Street, Chester. Carlyle Slate and Slab Co., Ltd., Dinas	Carlyle -	Dinas Mawddwy -	W. H. Bullock -	15	11
Mawddwy. New Conglog Slate and Slab Co., Ltd., 20,	Conglog	Tan-y-grisiau, Blae- nau Festiniog.	John K. Rowe -	6	5
Princess Square, Plymouth. Samuel Pope—Address: Thomas Williams, Bryn Croesor, Penrhyndeudraeth.	Croesor -	Cwin Croesor, Parish of Llanfro-	Thos. Williams	-	-
Wm. Boggett, 97, Cheyne Walk, Chelsea -	Crown	then. Penrhyn-gwyn,Dol-	-	3	2
Cwmorthin Slate Co., Ltd., Tan-y-grisiau,	Cwmorthin -	Tan-y-grisiau, Fes-	Andreas Roberts -	223	205
Blaenau Festiniog. Lewis H. Evans, 33, Walbrook, London, E.C. H. N. Hughes, Harvey Buildings, 24, James	Cyfanedd Cymerau -	tiniog. Arthog Corris	L. H. Evans - Evan Griffith -	8 18	-9
Street, Liverpool. Diphwys Casson Slate Co., Ltd., Blaenau	Diphwys Casson -	Blaenau Festiniog	E. P. Jones -	67	151
Fronbosth and Pantmawr Slate and Slab	Fronboeth and	Moelwyn	D. J. Davis -	18	4
Quarry Co., Ltd., Ession House, Portmadoc. G. A. Walker and Co., Henddol Quarry,	Pantmawr. Henddol	Dolgelly	W. C. Logan -	23	19
Ynysfaig, via Dolgelly. John W. Greaves and Sons, Blaenau Fes-	Llechwedd	Blaenau Festiniog	Evan Thomas -	178	230
tiniog. Macn Offeren Slate Quarry Co., Ltd.,	Maen Offeren -	Ditto -	William Owen -	158	140
4, East India Avenue, London, E.C. Moelferna and Dee Side Slate and Slab Co.,	Moelferna	Glyndyfrdwy -	Richard Roberts -	21	25
Limited, Glyndyfrdwy, Llangollen. Robert Evans, 28, Bridge Street, Birkenhead	Moelwyn	Tan-y-grisiau, Fes-	7-12		040
The Oakeley Slate Quarries Co., Ltd., 3, Old Palace Yard, Westminster Abbey,	Oakeley Middle Quarry.	Blaenau Festiniog	A. M. Dunlop -	163	139
London, S.W. Ditto Ditto -	Oakeley Upper	Ditto -	Ditto -	186	197
Welsh Slate Co., J. R. Reguell, Secretary,	Quarry. Palmerston -	Ditto -	Robert Owen -	308	362
8, Adelphi Terrace, London, W.C. James Staveley, c/o Geo. Curwen, Fenton-	Park	Llanfrothen -	Wm. Kellow -	4	13
ville, Ashton-on-Ribble, Preston.	T.	Territoria de la constantina della constantina d		1	1

A 50660,-10.

LIST of OWNERS, MINES, and AGENTS, under the METALLIFEROUS MINES REGULATION ACT, in NORTH WALES, Part of SOUTH WALES, SHROPSHIRE, and the ISLE of Man—cont.

Owner or Company, and Postal Address.	Name of Mine. Italics denote Mines suspended during the whole of 1886, but not abandoned.	Situation.	Agent.	Persons ordinarily employed during the year 1886.	
			Agen.	Below Ground.	Above Ground.
*	MERIONETHSI	HRE-cont.			
The Representatives of the late J. Parry Jones	Penarth	Corwen	T. S. Phillips	- 9	18
and E. H. Phillips, Denbigh & Corwen. I. N. Hughes, Harvey Buildings, 24, James	Ratgoed	Corris	Evan Griffith	- 8	6
Street, Liverpool. New Rhosydd Slate and Slab Co., Ltd.,	Rhosydd	Tan-y-grisiau, Fes-	W. W. Morris	- 101	97
Tan-y-grisiau. /oclgron Slate Quarry Co., : Address O. R. Owen, Bowydd Buildings, Blaenau Fes-	Voelgron	tiniog. East of Festiniog -	O. R. Owen	-	-
tining. Votty and Bowydd Slate Quarries Co.,	Votty and Bowydd	Blaenau Festiniog	J. Lloyd Jones	- 243	147
Ltd., Blaenau Festiniog. Vrysgan Slate Quarry Co., Ltd., John Jones, Secretary, Portmadoe, R.S.O.	Wrysgan	Tan-y-grisiau, Fes- tiniog.	Robert Roberts	- 53	46
			Totals	- 2,202	2,187
Rhiwarth Slate and Slab Co., Owen Roberts, Secretary, Llangynog, Oswestry.	MONTGOMEI	RYSHIRE.	O. Roberts	- 5	

LIST of OWNERS and OPENWORKS in Parts of North and South Wales, and in the Isle of Man.

the state of the s				_
Owner or Company, and Postal Address.	Name of Openwork. Name of suspended Openworks in Italies.	Situation.	Agent.	Persons ordinarily employed during the Year 1886
			Series and the series of	
	ANGLESEY.			
amlwch Gas and Chemical Co., T. F. Evans, Amlwch.	Amlwch Chemical Works.	Amlweh	T. F. Evans	30
	BRECONSHIRE			
L. Lewis Lloyd, Cwm Elao, Rhayader, and United University Club, Pall Mall, London.	Dalrhiw	Rhayader		4
	CARDIGANSH	IRE.		
Cardigan Slate Quarries, Ltd., 107, Cannon Street, London, E.C.	Cardigan	Glandovey -	1	18
	CARNARVONSHI	RE.		
Alexandra Slate Co., Ltd., Camarvon Bangor and Camarvon Welsh Slate Co., Morgan Kichards, Bangor.	Alexandra Bangor and Car- narvon, & West	Moel Tryfan - Nantlle	John Menzies - Morgan Richards -	1
John Pearson, Braich Slate and Coedmadog Co.,	Dorothea. Braich	Moel Tryfan -	W. B. Jeffrey -	
Carnaryon. 3. W. Cooke, Bryn Quarry, Bangor	Brynhafod-y-Wern Bryn Mawr	Llanllechid -	ma Callings	=
Fryn Mawr Slate Co., Llanberis	Brynyfferan -	Moel Tryfan -	-	
William Dew, Brynbras Castle, Carnarvon John Jones, Wine Merchant, Carnarvon	Bwlch-y-ddeilor - Caergors	Rhyd-ddu Beddgelert.		-
I. T. Campbell, 17, Warwick Street, Regent	Caermeinciau -	Llanberis -	W. B. Jeffrey.	-
Street, London, W. Capel Curig Slate Co., Ltd., 14, Brown St.,	Capel Curig -	Capel Curig -	D. W. Evans -	48
Manchester.		Llanberis -	John Menzies -	
Llanberis Slate Co., Ltd., Carnarvon Cilgwyn Slate Co., Carnarvon	Cilgwyn	Nantlle -	THE THE CLASSIC	287

LIST of OWNERS, and OPENWORKS in Parts of NORTH and SOUTH WALES, and in the ISLE of MAN-cont.

9

	Name of Openwork.			Persons
Owner or Company, and Postal Address.	Names of suspended Openworks in Italies.	Situation.	Agent.	employed during the Year 1886
	ARNARVONSHIR	P and	Part Line	
ohn Armor Hughes, solicitor, Porthyraur, Car-	Clogwyn-y-Gwin -			
narvon. 5hn Pearson, Braich and Coed Madog Slate Co.,	Coed Madog -	von. Nantlle	W. B. Jeffrey -	
Carnarvon. and J. Hughes, Cennant, Llanrug W. Duff Assheton Smith, Dinorwic Quarries,	Cook and Ddol - Dinorwic	Lianberis Ditto -	W. W. Vivian -	28
Llanberis. Porothea Slate Quarry Co., Nantlle, Pen-y-groes,	Dorothen -	Nantlle	O. T. Owen -	*
R.S.O. coel Clynnog Slate Quarries, Ltd., Pen-y-gross R.S.O., Carnarvonshire, and W. Hooper, Secre- tary, 2, Bank Buildings, Princes St., London,	Foel Clynnog -	Pen-y-gross -	W. Hooper -	3
E.C. Sictoria Slate Quarry Co., Ltd., 13, Clegg Street, Oldham.	Gallt-y-fedw - (Stopped May	Nantlle.	-	
ohn Findlay and others, 24, Grant Street,	1885.) Gallt-y-llan -	Llanberis	Thomas White.	197-1
Glasgow. Glanrafon Slate Quarry Co., Quay, Carnarvon -	Glanrafon -	Rhyd-ddu	Edward H. Owen (acting partner).	140
Hynrhonwy Slate Quarry Co., Ltd., Carnarvon - ohn Horne, Gwernor, Talysarn, Pen-y-groes,	Glynrhonwy - Gwernor	Llanberis - Nantile	G. C. Broadway -	183
R.S.O. Bettws-y-coed Slab, Slate, and Cistern Quarry	Hafodlas	Betturs-y-cood -	-	15
Co., Ltd. Vilson & Co., Waenfawr, Carnarvon	Hafod-y-wern -	Waen Fawr -	W Tones	
William Jones, Parkia, Carnarvon North Wales Quarrymen's Union Co., 7 Market Co., Carnarvon.	Llwyd-coed - Llyn-y-gader -	Llanllyfni - Rhyd-ddu -	W. Jones - Rowland Morris	
Moel Tryfan Slate and Slab Quarry Co., Ltd., Carnaryon.	Moel Tryfan -	Moel Tryfan -	-	120
John Leigh & Co., 30, Brown Street, Manchester	Nantlle Vale (for- merly Tymawr East).	Nantlle.		
New Vronheulog Slate Co., Ltd., Llanllyfni, Pen-y-groes, R.S.O.	New Vronheulog -	Ditto	-	
John Williams, 3, Cable Street, Liverpool J. G. Cooper, 63, Church Street, Manchester Penmachno Slate Co., Ltd., 10, South John	Pantdreiniog - Penllyn - Penmachno -	Bethesda - Dolwyddelen - Penmachno	Thomas P. Owen - W. Owen - Alfred Carter -	30
Street, Liverpool. Lord Pearhyn. Address: E. A. Young, Port	Penrhyu	Bethesda	E. A. Young -	
Pen-y-Bryn Slate Co., Ltd., Carnarvon	Pen-y-Bryn -	Nantlle	S. W. Davids -	210
Penyrorsedd Slate Quarry Co., Ltd., Nantlle - Plas-y-nant Slate Quarry Co., Ltd., Bettwa Garmon, Carnarron.	Penyrorsedd - Plas-y-nant -	Ditto Bettws Garmon -	David J. Jones.	300
South Derothea Slate Quarry Co., Quay, Car-	South Dorothea -	Nantlle	Griffith Williams -	61
John Robinson, Talysarn Slate Quarries, Nantlle Vale, Carnaryon.	Talysarn and West Tymawr.	Ditto -	John Robinson -	
Upper Glynrhonwy Slate Co. Address: T. Adams, 16, Cambridge Street, Birmingham.	Upper Glynrhonwy	Llanberis	T. Adams	109
Bangor and Carnarvon Welsh Slate Co., Bangor -	Vale	Nantlle	Morgan Richards -	
Vron and Old Braich Welsh Slate Quarries Co., Limited, Carnarvon.	Vron -	Do.	-	96
	* Number	s given confidentially		6,838
			Total	8,481
	DENBIGHSHI	RE		
George and F. E. Rooper, Llangollen	Cambrian	Glynceiriog -	-	
Llangollen Slab and Slate Co., Ltd., Llangollen -	Clogie and Foel	Llangollen	John Taylor and	
Robert Williams, Minera Limestone Quarry,	Faen. Minera (calamine		Sons. R. Williams -	-
Wrexham. Pantglas Slate and Slab Quarry Co., Ltd.,	pits). Pantglas	Eglwyseg, Llan-	Price Evans -	18
Liangollen. Ditto -	Wynne	gollen. Glynceiriog, Llan- gollen.	Price Evans -	27
	* Numb	ers given confidentially		68

REPORTS OF INSPECTORS OF MINES.

LIST of OWNERS, and OPENWORKS in Parts of NORTH and SOUTH WALES, and in the ISLE of MAN-cont.

		Charles of the Charles	The State of the S	1000
Owner or Company, and Postal Address.	Name of Openwork. Names of suspended Openworks in Italies.	cannot be a	Agent.	Persons ordinarily employed during the Year 1886.
	FLINTSHIR			
Talargoch Mining Co., Rhyl (dressing old mine- heaps).	Talargoch -	Rhyl	John Lean -	37
· onto the work	The second	See mares		
. If the	MERIONETHSHI			
Abercwmeiddaw Slate Quarry Co., Ltd., Corris, R.S.O.	Abercwmeiddaw -	Corris	48.0	16 to 31 3
John Lang, 7, Crown Gardens, Dowanhill, Glass gow.	Cefn Cam	Parish of Llan-	(A)	5
Thomas Miller Whittaker, Eitham Road, London, S.E.	Craig ddu connec	Blaenau Festiniog	Richard Bowton -	130
John Jenkins, Snowdon House, Aberystwith Robert Williams, 17, Clarke Terrace, Carnaryon	Cwmebol	Pennal, Machynlleth		15
Moelferna and Dee Side Slate and Slab Co.	Cwm Teigl Dee Side	Festining Glyndyfrdwy -	Richard Roberts -	-0.3
Ltd., Glyndyfrdwy, Llangollen. Owen & Mallory, Gartheiniog Slate and Slab	Gartheiniog -	Aberangell -	The state of the s	WE 370
Quarry, Aberangell, Cemmaes, R.S.O. G. A. Walker & Co., Ynysfaig, vià Dolgelly Hendreddu Slate and Slab Co., 2, New Street,	Goleuwern	Barmouth Junetion	W. C. Logan -	20
Bishopsgate Street Without, London, E. W. T. Milner, Croek Bridge Wharf, Greenwich,	Hendreddu	Aberangell		33
London, S.E. Manod Slate Quarry Co. Address: O. J. Owen,	Manod	Blaenau Festiniog	-	
Blaenan Festiniog. George Holcroft, Llanderfel, Corwen T. B. Davies, Plascoch Hotel, Bala	Queen's Tyddynllywarch -	Llanderfel		
The state of the s			- DI	11/11/11/19
	* Number	s given confidentially	-600	91
	India . might		Total -	313
	MONTGOMERYSH	TDD	All de la	
J. Lloyd Jones and Son, Pantperthog, Machynlieth				
R.S.O. Rhiwgwreiddyn Quarry, Ceinws,	Llwyngwern - Rhiwgwreiddyn -		J. Williams -	
West Llaygynog Quarry Co., Llangynog, Oswestry	West Llangynog -	Llangynog .	The state of the s	
	* Number	s given confidentially		40
			Total -	40
			Mary State of the	
	ISLE OF MAN.			
G. Torrance & Co., Douglas, Isle of Man	Ballasalla Umber Works.	Ballasalla -	G. Torrance	11
4.4				