# 6 Petroleum and natural gas, salt and miscellaneous non-metalliferous mining and quarrying

This Report on the Petroleum and Natural Gas and Salt and Miscellaneous Non-metalliferous Mining and Quarrying Industry relates to establishments engaged wholly or mainly in extracting and refining salt (at mine or pit) and salt processing and packing; mining or quarrying alum, barytes, graphite, gypsum and fluorspar etc; exploration (including boring) for and extracting petroleum on land and off-shore (including drilling contractors with offices in the UK); mining oil shale (including oil shale retorting). Petroleum includes natural gas and natural gas condensates. Producers' off-shore pipe lines are included but land pipe line terminals owned by associated companies or the Gas Council are excluded.

This industry corresponds to minimum list headings 104, 109(3) and 109(4) in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census. The definition of this industry however is unchanged from the last detailed Census of Production for 1963 in which it was reported (Part 6) except that there was only a small amount of petroleum and natural gas included in the 1963 Report on this industry.

Pits and quarries operated by establishments in the Miscellaneous Building Materials and Mineral Products Industry are not included in this Report unless they had their own separate set of accounts.

Mining and quarrying industries were excluded from the censuses for 1963 and 1968 taken in Northern Ireland and this Report relates, therefore, only to Great Britain in respect of land operations. For off-shore operations this Report relates to the United Kingdom part of the continental shelf.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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# Footnotes continued from page 6/3.

(d) Sales of products are valued at ex-mine or ex-works prices, the cost of transport being shown separately, but, for 1968, sales in the Petroleum and Natural Gas sector of this report are valued on an ex-works or delivered basis.

(e) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).

(f) Administrative, technical and clerical employees.

(g) Excluding expenditure for establishments not yet in production.

(h) Acquisitions less disposals.

TABLE 1 Industry summary, 1963 and 1968
Great Britain (a) (b) (c)

			11	All estab	lishments
		tall tallets tallets (and before	Unit	1963	1968
umber of enterprises	per head	lagreo tegino sgrave e las	No.	39	57
umber of establishmen	nts		"	64	73
ross output			£'000	26,654	42,226
et output			11	17,235	27,794
et output per head			£	2,793	6,931
	(	goods produced and work done (d) (e)	£'000	22,611	35,153
ales and work done	1	merchanted goods and canteen takings	n	746	1,482
urchases	14,032	materials for use in production and packaging and fuel	"	6,423	7, 131
шспавев	100	goods for merchanting and canteen purchases	ı	665	1,403
		for work done on materials given out for transport	"	5	24
	(5)(88,8	inwards on materials and fuel purchased	п	14	48
ayments to other	-	outwards on goods sold		The section of	
rganisations		by road	п		3,980
		by rail or other means (excluding postal services)	п	2,587	1,648
wn employees on goods hat over private rai	s sold, by ro	ed out by establishments oad, by rail, including		636	310
tocks	(	change during year	. "	+ 348	- 543
Total stocks	1	at end of year	99,09	2,188	2,651
	(	change during year	n in the latest	+ 74	- 346
Goods on hand for sa	ale	at end of year	"	581	383
		change during year	d a serie	+ 274	- 197
Materials, stores as	nd fuel	at end of year	- "	1,607	2,268
		total, including working proprietors	Th.	6.2	4.0
dumber employed on ave	erage	operatives	"	4.5	3.0
during the year	1		a a classes		
	(	other employees (f)		1.7	0.9
ages and salaries	{	of operatives	£'000	3,496	3,727
enit al	l	of other employees (f)	1	1,746	1,619
Capital expenditure (	g)		"	2,088	13,361
New building work			"	552	15,361
Land and existing by			" .	- 72	
			"	1,531	- 1
	(0)			1,531	13,139
Plant and machinery Vehicles (h)	(11)	in the state of th	II.	78	63

(a) See fourth paragraph of the introduction to this report.

(b) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 9 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for less than 1 per cent. For 1963 small establishments from which only employment data were collected accounted for 3 per cent. There were no unsatisfactory returns.

(c) The following information relates to small establishments (employing fewer than 25 persons) in this industry. For 1968 it includes an estimate for small establishments not making satisfactory returns.

	1963	1968
Number of establishments	29	47
Average number employed:	dor giatoniation pol	
Working proprietors	24	35
Other persons employed	186	316

Footnotes continued on page 6/2.

(i) Output and employment

All establishments: Great Britain (a)

Number employed on average during the year by the establishment (b)	Estab- lish- ments	Enter- prises (c)	Total number employed on average during the year (b)	Gross output	Net output	Net output per head
25, 65% (20 %) 621228	Number	Number	Number	£'000	£'000	£
1-5	25	24	78	10 HATE . DATE	••	
6-10	6	6	47			
11-24	14	11	222	seed on the	a basaira	
25-99	17	16	873	14,403	12,250	14,032
100-199	6	4	893	4,695	2,265	2,537
200 and over	3	3	1,893	19,717	11,794	6,231
Unsatisfactory returns	2	2	4	Legionis de a	100 Km2 10	•••
Total	73	57	4,010	42,226(d)	27,794(d)	6,931(d)

(ii) Employees, wages and salaries

All establishments: Great Britain (a)

Number employed on	Employees		Wages and	salaries	Wages and salaries per head		
average during the year by the establishment (b)	Oper- atives	Others (e)	Oper- atives	Others (e)	Oper- atives	Others (e)	
6.B   3.6	Number	Number	£'000	£'000	£	£	
1-5				(1) ssayo.	thes seuso ]		
6-10	0.00 3			a awa	maringo to		
11-24						(9	
25-99	713	147	922	168	1,293	1,145	
100-199	712	181	799	185	1,122	1,024	
200 and over	1,334	557	1,705	1,173	1,278	2,106	
Unsatisfactory returns	1 .	••				(d) x	
Total	3,013(d)	948(d)	3,727(d)	1,619(d)	1,237(d)	1,708(d)	

(a) See fourth paragraph of the introduction to this report.

(b) Including working proprietors.

(c) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

(d) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

(e) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: Great Britain (b)

Ages	Mal es	Females	All employee	
	Per cent.	Per cent.	Per cent.	
Under 18	1	1	2	
18 and over	87	11	98	
All ages	88	12	100	

Source: Department of Employment

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- (a) The percentages relate to the numbers employed (excluding working proprietors) in the 'Petroleum and natural gas and other mining and quarrying industries' minimum list headings 104 and 109 at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification (Revised 1968).
- (b) See fourth paragraph of the introduction to this report.

### Footnotes to Table 4.

- (a) See fourth paragraph of the introduction to this report.
- (b) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 1 establishment in 1968 and 7 in 1963.
- (c) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-division are identified in Table 5.
- (d) Sales of products are valued at ex-mine or ex-works prices, the cost of transport being shown separately, but for 1968, sales in the Petroleum and Natural Gas sector of this report are valued on an ex-works or delivered basis.
- (e) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (f) Characteristic products relate only to sub-divisions of the industry.
- (g) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (h) Administrative, technical and clerical employees.
- (i) Excluding expenditure for establishments not yet in production.
- (j) Acquisitions less disposals.

TABLE 4 Analysis of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, Great Britain (a)(b)

		CUMPLET CO.	Sub-division industry			
	telement which the safe safe bes	Unit	Salt and miscellaneous non-metal- liferous mining and quarrying 30, 40	Petroleum and natural gas 50	Total	
		4	1968	1968	1963	1968
Number of enterprise		No.	12	6	18	18
Number of establish		п	20	7	42	27
Gross output		£'000	22,611	16,984	25,943	39,595
Net output		п	12,711	13,605	16,768	26,315
Net output per head	and brook that an emphasization and from	£	4,262	19,978	2,789	7,184
e activities to a contract of	(goods produced and work done (d) (e)	£'000	16,966	16,213	22,004	33,179
Sales and work done	merchanted goods and canteen takings	п	1,327	-	725	1,327
Sales of characteri		11	16,593	16,209	(f)	(f)
Index of specialisa		Per cent.	98	100	82	99
	materials for use in production and packaging, and fuel	£'000	11	3,032	6,254	6,703
Purchases	goods for merchanting and canteen purchases	"			647	1,258
	for work done on materials given out for transport	11			5	21
Payments to other organisations	inwards on materials and fuel purchased outwards on goods sold (d)	n	•	*	14	43
	by road by rail or other means excluding postal services	"			2,523	5,122
ments, own employee	transport carried out by establish- ses on goods sold, by road, by rail, or private railway lines	"	278	3000-	618	278
Stocks		"	- 310	-	+ 72	- 310
Goods on hand	change during year	"			565	343
for sale	at end of year		343			- 132
Materials,	change during year	11				
stores and fuel	at end of year	"	833	1,338	1,570	2,171
HOUSE OF L	(total including working proprietors	No.		681	6,012	3,663
Number employed on average	operatives	"	2,386	377	4,377	2,763
during the year	other employees (h)	11	593	293	1,633	886
Wasse and Toron and	(of operatives	£'000	2,850	579	3,419	3,429
Wages and salaries	of other employees (h)	"	881	646	1,708	1,52
Wages and	(operatives	£	1,194	1,535	781	1,24
salaries per head	other employees (h)		1,485	2,206	1,046	1,72
Capital expenditur		£,000	*		538	14
New building wor	것 이번 이번 가게 되는 경우에는 사람들은 사람이 있다면서 보고 있는 것은 사용을 때 등다는 하네 입어하네요요.	1 00	0		36 7	
Land and existing	acquisitions			*	107	-
buildings	disposals	"			107)	13,08
Plant and	acquisitions	"	695 (j)	12,364(j		13,00
machinery	disposals	"	j	10	16 42	7
Vehicles	\[ acquisitions	"	51(j)	6()	j) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2
Venicies	disposals	"			( 40	

Establishments employing 25 or more persons:
Analysis of returns received, Great Britain (a)

Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

ndustry	8881	19	963		1968				
sub- livision (b)	Indicated Principal Principal States	Quantity	Value (c)	Quantity	Value (c)	Enter- prises	Entries		
	(a) beautorq (d) (d)	Th.tons	£'000	Th.tons	£'000	Number	Number		
30	Products of salt mines, brine pits and salt works	T 000°2	met.dl		9,390		ŠĪ.		
	White salt obtained from brine, not further processed	1 1000000		an	725 e3	line to	josbor en elic		
	Vacuum	1,089	5,653(d)	1,219	6,382	* 300	*		
	Pan	77.8	685	29.7	300	*	*		
	Salt processed in containers	100	0.450		0.010	EaloT macanada	Military events		
	(including table salt)	106	3,470	82.3	3,019	1 2 2 7 2 7 3	*		
	Wrapped cut lumps	6.9	177	2.4	76	1 do sell	8 (4)		
	Ot her	d salas to a skin to so	4,209(d)	e shown as a shown as a sod Matwe	6,108	e v*luec a cther ate in	*		
	Total products of salt mines, brine pits and salt works	ta selifes Loza) elar-	14,194	edit of ada	15,886	CONTRACTOR	7 (0)		
40	Miscellaneous non-metalliferous mining and quarrying products				. talteio	sta levas			
	Fluorspar	58.1	735	151	2,130	*	*		
	Barytes and witherite	51.8	407	21.3	225	*	*		
W7.52	Gypsum, not calcined, and anhydrite	2,258	2,757	2,170	2,496	*	*		
	Total miscellaneous non- metalliferous mining and quarrying products	0.200	2 900	0.040	4.050				
	quarrying products	2,368	3,899	2,342	4,850		•••		
				Th.therms					
50	Natural gas		30 (e)	746,173	12,630	*	*		
	Other minerals (excluding stone, slate, clay, sand, gravel and chalk but including crude petroleum), natural gas liquids, and waste	Plan Queen	No. 1 Straight	The second	Eductors	Hyadkey r	Vactoria Nazioni		
	products Work done, including exploration		1,165		560	5	6		
	work done, file taking exploration work (eg drilling) for which pay- ment was receivable, work done on materials supplied by the customer, and work done on capital items	o tala repo	et.		.E elds	oř seto	Foots		
(including repa	(including repairs and maintenance charged to capital account)	oger sint o	95	ini adi lo adi lo fadi	3,145	6	6		
	Total	hoistan	19,383	.gojaivib-	37,072	el liesal			
terre.	Sales in other industries (see Table 6)	sies by lar For 1968 Sportjare c	1,269	edu e-zo lee ina an ina ent.	4,144	in Genta niningka niningka ningka			
	Principal products of this industry sold by establishments in the industry	returns se	18,114	.visterace	32,928	18	22(f)		

For notes to this table - see page 6/8.

TABLE 5

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TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, Great Britain (a)

8001			1963		1968			
			Quantity	Value	Quantity (b)	Value (b)	Entries	Principal industries in which produced (c)
			Th.tons	£'000	Th.tons	£'000	Number	na to approve
Products of salt mi pits and salt works	nes, or	ine		855 (d)	125	2,922	*	18
Gypsum, not calcine anhydrite			276	414	961	1,222	9	130
Total				1,269		4,144	18	

- (a) See fourth paragraph of the introduction to this report.
- (b) Sales of products by larger establishments classified to Mining and Quarrying Industries are valued at ex-mine or ex-works prices, but sales by larger establishments classified to other industries are shown as net selling value. For 1968, sales by larger establishments in the Petroleum and Natural Gas sector of this report are also shown as net selling value.
- (c) The references given are to the list of industries at the front of this report.
- (d) For 1963, included an amount for other minerals (excluding stone, slate, clay, sand, gravel and chalk).

# Footnotes to Table 5.

- (a) See fourth paragraph of the introduction to this report.
- (b) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger establishments, not merely sales by establishments classified to the sub-division.
- (c) Sales of products by larger establishments classified to Mining and Quarrying Industries are valued at ex-mine or ex-works prices but sales by larger establishments classified to other industries are shown as net selling value. For 1968, sales by larger establishments in the Petroleum and Natural Gas sector of this report are also shown as net selling value.
- (d) Revised figure.
- (e) So far as recorded separately.
- (f) This figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

> Establishments employing 25 or more persons: Analysis of returns received, Great Britain (a)

	1963	1968
00013 # 200013	Value	Value
200 Magail and all all all all all all all all all al	£'000	£'000
oods other than principal products and services rendered to other eganisations (b)	3,890	251
tal value of goods sold without having been subjected to any nufacturing process (merchanted or factored) and canteen takings	725	1,327
muracouring process (merchanica or racourar) and canoon synthesis		

PETROLEUM AND NATURAL GAS. SALT AND MISCELLANEOUS

NON-METALLIFEROUS MINING AND QUARRYING

- (a) See fourth paragraph of the introduction to this report.
- (b) Services rendered to other organisations comprises amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger establishments, 1963 and 1968

> Establishments employing 25 or more persons: Analysis of returns received, Great Britain (a)

		19	1963		1968					
		Quantity	returned	Returned in this industry Returned in all ind			lustries			
		returned in this industry		Quantity	Enter- prises	Entries	Quantity	Enter- prises	Entries	
	CAN STATE OF THE S	Th. tons	Th. tons	Th.tons	Number	Number	Th. tons	Number	Number	
Gypsum, not anhydrite	calcined, and	2,193	2,880	1,209	*	Antonioù e 1 *	2,920	*	10	

(a) See fourth paragraph of the introduction to this report.

TABLE 9 Purchases by larger establishments of selected principal products of the industry, 1968

This table is not applicable to this industry.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, Great Britain (a)

	19	963	196	38
	Quantity	Cost	Quantity	Cost
Materials for use in production		£'000	Princip	£,000
Explosives for blasting		190		206
Soda ash	months on the	634	Lau Salia us	738
Steel pipes	dun mosed pro seed bornstore	(b) {	Th.tons	320 871
Iron and steel not elsewhere specified except finished parts, wire and scrap	993	(b)	7000	423
The state of the s	Th.gal.	मार्थ केटी होता । वर्षा १९४४	Th.gal.	
commenced delication and analysis of the control of	97.9	28	(41.4	18
Lubricating oils and greases	Th.cwt.		1	3
SALENDE BUT AN LOS STORES DE MANDE DE MARIE DE MANDE DE MARIE DE M	1.1	4		
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	o grop, make regard one	THE SECOND	s pat	
Tyres and other spare parts for firms' own road goods vehicles	]	537 {	, sentia.	42
Other				317
All other materials for use in production		1,505		1,399
Packaging materials				
Paper and board		1,402		519
All other packaging materials	Laginging	394	roduction	228
Fuel and electricity (c)	Th.tons	110/33	CHAID LAME AN	
Coal	204	1,051	lo alsidua	412
Coke (including screenings) and manufactured fuel	9.9	7		2
8081	Th.gal.			
Derv fuel and motor spirit for use in road vehicles	582	122	288	80
Other liquid fuels (including creosote/pitch mixtures, etc, and liquefied petroleum gases)	1,181	59		786 (d)
radial tadion   master   Thetan   mademit   manager   en	Th.kWh	47	Th.kWh	
Electricity	68,122	318	52,361	339
Total cost of materials and fuel		6,254		6,703
Goods purchased for merchanting and canteen purchases	d saitudos	647	Gergerou di	1,258
Total cost of purchases		6,900		7,961

<sup>(</sup>a) See fourth paragraph of the introduction to this report.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received,

Great Britain (a)

		Unit	1963	1968
Average number mainly employed on transport		No.	384	97
Transport costs		alol by	Linkson	
Wages and salar	ies	£'000	351	171
Derv fuel and motor spirit		п	122	80
Tyres and other	spare parts for road goods vehicles	п	100 1	42
Payments to other organisations	inward transport on materials and fuel purchased	n.	14	43
	outward transport on goods sold by road	п	] 0.500	lot .
	by rail or other means excluding postal services	п	2,523	5,122
Value of outwards transport carried out by establishments' own employees on goods sold, by road, by rail, including that over private railway lines		11	618	278
Costs of operat	ing road goods vehicles			
Insurance	ing adaptation to the standard classification	п	11	5
Vehicle licences		п	24	19
Depreciation		п	86	48
Payments to other organisations for repairs and maintenance			90	26
Total	o sa per cent, er more of office total outsure.	п	3,839(b)	5,833

<sup>(</sup>a) See fourth paragraph of the introduction to this report.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, Great Britain (b)

	Amounts	Amounts payable	
	1963	1968	
Repairs and maintenance to	£'000	£'000	
Buildings	28	11	
Road goods vehicles	90	26	
Plant, machinery and other capital equipment	299	228	
Insurance, licensing and depreciation of road goods wehicles (c)	121	72	
Rates, excluding water rates		141	
Hire of plant and machinery		1,400	
Postage, telephone, telegrams, cables and telex (d)	50	87	
Total	882	1,965	

<sup>(</sup>a) No deduction is made for these payments to arrive at the figures of net output given in this report.

<sup>(</sup>b) Not recorded separately for 1963.

<sup>(</sup>c) The total quantity of electricity generated in establishments employing 25 or more persons in this industry was 46,134 Th.kWh in 1968 and 23,803 Th.kWh in 1963.

<sup>(</sup>d) For 1968, may include a small amount of fuels not covered by specific headings.

<sup>(</sup>b) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

<sup>(</sup>b) See fourth paragraph of the introduction to this report.

<sup>(</sup>c) For details see Table 11.

<sup>(</sup>d) Excluding telex for 1963.

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TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons: Analysis of returns received, Great Britain (a)

Year ended	Percentage of total returns received	Percentage of total number employed	
1968	Per cent.	Per cent.	
April (b)	0.0	0.0	
May	0.0	0.0	
June	0.0	0.0	
July	0.0	0.0	
August	0.0	0.0	
September	22.7	21.7	
October	0.0	0.0	
November	4.6	4.5	
December	40.9	43.5	
1969			
January	0.0	0.0	
February	0.0	0.0	
March	31.8	30.3	
April (c.)	0.0	0.0	
	100	100	

<sup>(</sup>a) See fourth paragraph of the introduction to this report.

<sup>(</sup>b) From 6 April.

<sup>(</sup>c) To 5 April.