

Declassified E.O. 12356 Section 3.3/NND No. 785015

ACC

10000/100/424

12 p

785015

00/100/424

RESOURCES, REGION VI
MAY 1941; SEPT., OCT. 1943

12 pp

785015

Transportation - Land

Plumlee 2A. Although shipping is not under Am. CC at present, it may find some indication of the amount of traffic that might be required to move material inland from CASCIARI.

W. M. Tapscott
40 No 4 Section

18 25th
27 SEP 63

II

Mc
no 4 Section

Re. minute 1

Have taken a copy of 2A. Thanks.
Plumlee in per.
+ Sub-Section 4.

27 Sept '63

III

Seen notes - Plumlee 2A
1C.

29 Sept 63

27 Sep 63

1/c no 4 section

Re. minute 1

Have taken a copy of 2A Thanks

to mining office

& Sub-Section 4.

27 Sept '63

III

Seen notes - New Thompson

24 Sept 63

IV

13 Oct 63. Noted. sight of report on suggested
order for 4000 coal to Sanderson to maintain
would be appreciated

Full for. 875015

on this tape

of no 4 section

785015

SECRET

34

EXTRACT7 October 43.

Notes on meeting held in C.A.O.'s room 1130 hrs 7 Oct 43 to discuss the Co-ordination of Military and Civil Rail and Sea Traffic in ITALY.

Present:	Lt. Gen. H.N. GALE.	-	C.A.O.
	Commodore DICK.	-	R.N.
	Brig. Gen. HOLMES.	-	Mil Gov Sec.
	Brig. de RHE PHILIPPE.	-	G-4 (M&Tn)
	Brig. GUETERBOCK.	-	AMGOT.
	Col. HIRKWOOD.	-	AMGOT.
	Col. MAXWELL.	-	Mil Gov Sec.
	Col. FITCH.	-	AMGOT.
	Lt. Col. HODNETT.	-	A/Q (Co-ord).

• • • • •

SHIPPING REQUIREMENTS FOR SARDINIAN COAL.

6. Col. MAXWELL raised the question of shipping requirements for SARDINIAN coal. C.A.O. said that the chief problem lay in finding out what use could be made of SARDINIAN coal and he was waiting for a report on this point.

G.A. HODNETT,
Lieut-Colonel,
A/Q (Co-ord).

Room 98.

DISTRIBUTION:-

All Officers present
at meeting.

526

785015

*Copy
sent to*

MGS MSG V MGS T12
27 SEPTEMBER 1943
MESSAGE NO 1

27 Sept 43
1057

598

2A

TO J A C S ATTENTION LT COL KOENIG
SUBJECT HARBOR FACILITIES

PLEASE PASS ALSO TO REGION 6 AND ARMISTICE CC

FOLLOWING PARAPHRASE OF MESSAGE FROM GEN ROOSEVELT IS FURNISHED FOR YOUR INFORMATION.

CAPACITY OF CAGLIARI THREE SHIPS FIVE TO EIGHT THOUSAND. TWO CRANES OF 1.5 TONS EACH ARE ON THE RAILS. AVERAGE DEPTH 7.5 METERS. APPROXIMATELY 550 METERS IS TOTAL LENGTH OF BERTHS.

ALGHERO IS NO GOOD.

FOR TORRES TWO SHIPS FIVE TO EIGHT THOUSAND TONS. ONE SHIP LESS THAN ONE THOUSAND. AVAILABLE BERTH LENGTH IS APPROXIMATELY 450 METERS. THERE ARE NO ROADS, RAILROADS OR CRANES AT BOTH PLACES.

THE ABOE IS A REPLY TO MY MEMORANDUM OF 22 SEPTEMBER TO COLONEL RODARICK, WHO PROMISES FURTHER INFORMATION WHEN AVAILABLE.

COLONEL A T MAXWELL

Particular prepared by Economics Supplier 24 Sep 43.
 S A R D I N I A Italy Region VI. 1A
 --- copy for: Italy copy for:
Region VI Italy copy for:
Coal & Over Production plants

COAL.

Italy's war-time consumption of coal is approximately 16,000,000 tons per annum; her production, including Sardinian deliveries only, 5,000,000 tons.

Sardinian Black Lignite.

The production in 1940 was 1,248,000 tons.
 (now about 1,800,000 tons)

Quality	40-45%
Vol. H ₂ O matter.	54-57
Fixed carbon.	13-22
Adm.	5-6
Moisture	5-10
Sulphur	---
Nitrogen	---
B.T.U.	9,800-10,800.

Some coal is used in mining industry in Sardinia Gas Producing plant at San Gavino Monreale - about 100,000 tons p.a. to distillation plant at S. Antiooco remaining to Italy. Ports S. Antiooco and possibly Porto Temo (rail connections)

Reserves estimated 1940 700,000,000 tons.

Thickness of beds. 10ft.

Mining. 16 mines now operating at Baccu Liscia (Gonnessa-Carbania)

10,000 workers.

Processing.

Crushers softening equipment in use. Plant for low temperature distillation at S. Antiooco, capacity 100,000 tons p.a. with production of 72,000 tons semi-coke with 9,800 B.T.U. 7,500 tons pitch or tar; 1,000 tons (275,000 galls) gasolene and 175 cubic ft. of gas. Pitch and tar sent to Italy for hydrogenation yielded 700,000 to 800,000 lxxx galls of benzine.

Sardinian production is rising rapidly and reserves are by far the greatest under Italian control.

Location of mines S. of ISLEGLIAS (3 miles long by one to two miles wide). Deposits covered with trachyte N.S. and S.W. of area now mined, extending from PTO. VIGHE S. to S. CATERINA

Anthracite.

Anthracite lies near the surface near SUI in an area less than 1 sq. mile. Production 1931 - 13,000 tons, now largely increased.

at San Gavino Lirvale - about 100,000 tons p.a. to distillation plant at S. Antiocho remaining in Italy. Ports S. Antiocho and possibly Porto Venere (rail connections).

Reserves estimated 1940 700,000,000 tons.

Thickness of bed. 10ft.

Mining. Is shown new operating at Bani Rite (Sonnese-Carlinia) 10,000 workers.

Processing. Crushers and washing equipment in use. Plant for low temperature distillation at S. Antiocho, capacity 100,000 tons p.a. with production of 22,000 tons semi-coke with 3,900 S.T.H. 7,500 tons pitch or tar; 1,000 tons (275,000 galls) gasolene and 175 cubic ft. of gas. Pitch and tar sent to Italy for hydrogenation yielded 700,000 to 800,000 litres gas of benzene. Sardinian production is rising rapidly and reserves are by far the greatest under Italian control.

Location of mines S. of Iglesias (3 miles long by one to two miles wide). Deposits covered with trachyte W.S. and S.E. of area now mined, extending from PTO. VESME S. to S. CATTANIA

Anthracite.

Anthracite lies near the surface near SSVI in an area less than 1/2 of mile. Production 1931 - 13,000 tons, now largely increased. Quality B.T.H. 11,700 to 12,600. Analysis prior to 1923

Volatils materiel	5.40
Fixed Carbon.	73.77
Ash	15.00
Moisture	5.00
Sulphur.	.85

Full facilities to port available.

Reserves some hundreds of thousands of tons.

Thickness average 5ft. Dip maximum about 20ft.

Mining. At Corangia, near SSVI there is a mine with inclined shaft and side galleries which follow the coal bed for about 400ft. At INGUERITALLI near SSVI there are other less important underground workings.

Processing. A 1923 report mentions future installation of a modern transport and washing plant.

Rehabilitation. The destruction of both mine structures and openings may have occurred. If fans and pumps destroyed serious ventilation and drainage problems. It is known that some of the mines are very gaseous and accumulations of gas would need to be swept out. Workings exist

SECRET

below the level and large pumping capacities have to be maintained. Damage to tipples, power houses, railway yards, etc probably considerable.

Loading facilities exist at S. Antiocho, also at Port Vesme.

Rehabilitation Steps.

1. Government owned mines to be at once taken over and operated. Privately owned mines supervised closely, and coal rationing continued.
2. Personnel experienced in large scale coal mining to be placed in charge.
3. Careful survey of mines to be promptly started.
4. Mine maps, surveys and broad inventories of individual mines to be secured.
5. Terminals and shipping tonnage vital.
5. Land transport equally vital.
7. The supply of any part of 8,000/12,000 tons needed annually by Italy ~~is~~ ^{is} a serious problem.
8. Mine supplies, machinery and subsistence for miners a major problem, and a suitable agency should be immediately established.

Extracted from WD.157A.

Sardinian Mineral Deposits.

1. Iron Ore. La Mura. Deposits of phosphoric ore with iron content about 45%. Total reserves estimated at 5,000,000 tons. This ore suitable for Bessemer Steel production.
2. Manganese. Iglesias.
3. Molybdenum Gonicsferiedia.
4. Magnesium. Suergin. S.A.M.Cogne. Production 102 tons in 1958. Possibly shut down.
5. Lead. 90% of total Italian production. Iglesias Guspini
6. Antimony. At Villaselto and Suergin Ballas, etc.
7. Zinc. 70% of total Italian production. (80,000 tons p.a. total)

5251

Sardinian Mineral Deposits.

1. Iron Ore. La Nurra. Deposits of phosphoric ore with iron content about 45%. Total reserves estimated at 5,000,000 tons. This ore suitable for Bessemer Steel production.

2. Manganese. Iglesias.

3. Molybdenum. Gornosferiadica.

4. Magnesium. Suergiu. S.A.M.Cogne. Production 102 tons in 1938. Possibly shut down.

5. Lead. 90% of total Italian production. Iglesias Guspini

5261

6. Antimony. At Villesalto and Suergiu Salles, etc.

7. Zinc. 70% of total Italian production. (80,000 tons p.a. total)

8. Cadmium. Sardinian ore with a metal content of 1.63% believed some of the richest in Europe.

9. Copper. (Domusnovas)

10. Nickel. 150 tons p.a. of nickel ore.

11. Tin.

12. Silver.

13. Cobalt (Arbus)

14. Arsenic

Power for the mining industry.

Electric power generally used (see map annexed). Some small mines still use Diesel engines and their consumption per 6 months can be estimated as - Diesel Oil 1,000 tons, Lubricating Oil 50 tons.

SHEET THREE.

tons.
Zinc plants call for about 2,000 fuel oil annually.
Lead " " " 2,000 " "
Cement " " " coal of domestic origin (cement production
about 80,000 tons p.a.) No indication available as to
amount of coal required. Paper bag imports essential,
for packing cement.

REGION 6.

SUMMARY OF AUXILIARY WAR PRODUCTION PLANTS.

Extracted from "Elenco degli Stabilimenti Ausiliari" issued May 1941 by the Under Secretary of State for Italian War Production.

N.B. No War Material Plants are listed for the Province

Industry and Commerce Section.

5259

REGION 6.

SUMMARY OF AUXILIARY WAR PRODUCTION PLANTS.

Extracted from "Elenco degli Stabilimenti Ausiliari" issued May 1941 by the Under Secretary of State for Italian War Production.

N.B. No War Material Plants are listed for the Province of NUORO.

tion.

5259

785015

SUMMARY (BY CATEGORIES) OF AUXILIARY WAR MATERIAL PLANTS

(As at May 1941)

Province of CAGLIARI - Region 6.

NAME AND ADDRESS OF COMPANY.	LOCATION OF PLANT	MANUFACTURE	CATEGORY	CONDITION OF PLANT
1. Soc. di Monteponi - Fonderia di Piombo, produzione zinco e cadmio elettrolitico.	Iglesias Frazione Monteponi.	Lead, silver, zinc and Cadmium melting.	G/E	
2. 'Montevocchio' Soc. Italiana del Piombo e dello Zinco - Fonderia di Piombo.	San Gavino Monraale.	Lead smelting.	M	
3. Azienda Minerali Metallici Italiani (AIMI)- Fonderia di Villasalto.	Villasalto.	Antimony smelting.	G/M	
4. Soc. di Monteponi - Stab. per la Produzione dell'os- sido di zinco, dell'acido solforico e nitrico.	Iglesias. Frazione. Monteponi.	Oxide of zinc, sulphuric and nitric acid.	G/C	
5. Montevocchio Soc. Italiana Del Piombo e Dello Zinco - Miniere: Montevocchio I, II, III e Piscalina.	Guspini e Arbus.	Extraction and refining of lead, zinc, silver.	G	
6. Soc. di Monteponi - Miniera di Monteponi, Campo Pisana, Cabitza e Monte Scorre.	Iglesias	Extraction and refining of lead and zinc.	G	
7. Azienda Minerali Metallici Italiani (AIMI) - Miniere Corti Rosas e Su Suergiu Impianti e servizi annessi.	Bellao e Villasalto	Extraction of antimony.	G	

6258

Y (BY CATEGORIES) OF AUXILIARY WAR MATERIAL PLANTS

Province of CAGLIARI - Region 6.

Categories: M- Metallurgical and Engineering.
 C- Chemical.
 A- Automobile and Aeroplane.
 L- Auxiliary Supply.
 E- Electrical.
 G- Generic (Refractories abrasives
 woods, paper, glass etc.)

Y OF	MANUFACTURE	CATEGORY	CONDITION OF PLANT.
------	-------------	----------	---------------------

ias one poul.	Lead, silver, zinc and Cadmium melting.	G/M	
---------------------	--	-----	--

avino le.	Lead smelting.	M	
--------------	----------------	---	--

alto.	Antimony smelting.	G/M	
-------	--------------------	-----	--

as. e. oni.	Oxide of zinc, sulphuric and nitric acid.	G/C	
-------------------	---	-----	--

.	Extraction and refining of lead, zinc, silver.	G	
---	---	---	--

s	Extraction and refining of lead and zinc.	G	
---	--	---	--

to	Extraction of antimony.	G	
----	-------------------------	---	--

5258

785015

SHEET TWO.

CAGLIARI continued

NAME AND ADDRESS OF COMPANY.	LOCATION OF PLANT	MANUFACTURE	CATEGORY	CONDITION OF PLANT
8. Soc. Mineraria e Metallurgica Di Fertusola - Gruppo Iglesias: Miniere di S. Giovanni, S. Giovanneddu e Monte Onixeddu, impianti e servizi annessi.	Iglesias e Carbonia.	Extraction and refining of lead and zinc.	G	
9. ditto - Gruppo Iglesias. Miniere del Gruppo Gennasari e Iguì tosa e stabilimento di arricchimento annesso.	Arbus Ingiatusu	ditto.	G	
10. ditto - Miniere Malfidano. Planu Sertu, Pira Rona e Planu Dentis e stabilimento arricchimento annesso.	Fluminimaggiore Buggeru.	Ditto.	G	
11. Soc. An. Ing. Luigi Cont-vecchi - Saline e Industrie Chimiche di S. Gilla.	Cagliari Sta. Gilla.	Salt and by-products.	G	
12. "S.A.N.A.C." Soc. Anonima Nazionale Argilla Caelini.	Cagliari viali Trieste 55.	Refractories.	G	
13. Chicca & Salvolini.	Cagliari via Riva De Ponente.	Workshops Steel and Bronze foundry.	M	
14. Meccanurgica Carloforte.	Carloforte.	ditto.	M	
15. Eredi Di Giorgio Asproni - Miniere Seddas in Modisiss, impianti e servizi annessi.	Iglesias Seddas Modisiss.	Extraction and refining of lead and zinc.	G	
16. Soc. Mineraria Carbonifera Sarda - Miniere di Baccu Abis, Sirei Barbariu impianti e servizi annessi.	-Carbonia, Baccu Abis, Sirei, S. Barbara.	Coal (Sulcis.)	G	
17. Soc. Vielle Montagne - Miniere S. Benedetto e Goro, impianti e servizi annessi.	Iglesias.	Extraction and refining of lead and zinc.	G.	

525

SHEET TWO.

LOCATION OF PLANT	MANUFACTURE	CATEGORY	CONDITION OF PLANT.
-------------------	-------------	----------	---------------------

Poland Carbonia.	Extraction and refining of lead and zinc.	G	
---------------------	---	---	--

Italy Intoco	ditto.	G	
-----------------	--------	---	--

Germany Gera.	Ditto.	G	
------------------	--------	---	--

Italy Gillia.	Salt and by-products.	C	
------------------	-----------------------	---	--

Italy Trieste	Refractories.	G	
------------------	---------------	---	--

Italy Riva Monente.	Workshops Steel and Bronze foundry.	M	
---------------------------	--	---	--

Italy Sforza.	ditto.	M	
------------------	--------	---	--

Poland Mediasia.	Extraction and refining of lead and zinc.	G	
---------------------	--	---	--

Poland Suar, Subera.	Coal (Sulcis.)	G	
-------------------------	----------------	---	--

Poland Suar, Subera.	Extraction and refining of lead and zinc.	G	
-------------------------	--	---	--

SHEET THREE.CAGLIARI continued.

NAME AND ADDRESS OF COMPANY.	LOCATION OF PLANT.	MANUFACTURE	CATEGORY	CODE OF PL
18. Soc. Vielle Montagne.- Min. Monte Agruxau, Penugu impianti e servizi annessi.	Iglesias. 1-10 and zinc.	Extraction and refining of lead and zinc.	G.	
19. Ditto - Min. Montecani impianti e servizi annessi.	Iglesias.	Ditto.	G.	
20. Soc. Miniere Di Nebida - Miniere di Nebida, impianti e servizi annessi.	Iglesias Nebida.	Ditto.	G.	
21. S.A. Nichello E Metalli Nobili - Min. di Penugu Sibiri, Genna S'Ollioni, Ballitu, impianti e servizi annessi.	Arbus Fluminimagiore.	Extraction of nickel, G. cobalt, arsenic, zinc and lead.	G.	
22. Azienda Minerali Metallici Italiani. (AMMI) - Min. di manganese, impianti e servizi annessi.	Carloforte Isola S. Pietro e Costa sud occidentale Sarda.	Manganese mining.	A	
23. Azienda Minerali Metallici Italiani (AMMI) - Min. di Sa Duchessa, Barrasciutta e Monte Gaiuso impianti e servizi annessi.	Domusnovas.	Extraction of Copper and lead.	A.	
24. Ditto. Min. di Montemannu.	Villacidro	Extraction of lead, zinc and tin; refineries.	G.	
25. Soc. Di Monteponi - Min. di Terracollu.	Carbonia Terracollu.	Sulcis coal.	G.	
26. Soc. An. Cooperativa Officine Meccaniche (SACOM)	Carloforte	Repair shops, iron and bronze foundry.	M	
27. Soc. An. Nazionale Cogne. Min. di Molibdeno e manganese.	Gonnofanadiga.	Extraction and refining of molybdenum and manganese.	G.	

SHEET THREE.

NAME OF PLANT.	MANUFACTURE	CATEGORY	CONDITION OF PLANT.
... ..	Extraction and refining of lead and zinc.	G.	
...	Ditto.	G.	
...	Ditto.	G.	
... ..	Extraction of nickel, cobalt, arsenic, zinc and lead.	G.	
Porte Isola	Manganese mining.	A	
... ..	Extraction of Copper and lead.	A.	
... ..	Extraction of lead, zinc and tin; refineries.	G.	
... ..	Sulcis coal.	G.	
... ..	Repair shops, iron and bronze foundry.	B	
... ..	Extraction and refining of molybdenum and manganese.	G.	

785015

SHEET FOURCAGLIARI continued.

<u>NAME AND ADDRESS OF COMPANY.</u>	<u>LOCATION OF PLANT.</u>	<u>MANUFACTURE</u>	<u>CATEGORY</u>	<u>COND. OF P.</u>
28. Caproni Vissola S.A. Stab. di Elmas.	Elmas R.Seraporto.	Repair of Aircraft (RA)	A	
29. Soc. Italiana Del Bromo. Stab. di Cagliari.	Assemini.	Extraction of Bromo.	C	
30. A. CA. I Azienda Carboni Italiani. Stab. di S.Antioeo.	S.Antioeo Ponti.	Sulois Coal distillation.	C	
31. S.A.F.I.S. Soc. An. Finanziaria Industriale Sarda	Cagliari via La Palma.	Refractories Kaolin, Clay Grinders.	G	
32. Soc. Min. E Metallurgia di Pertusola. Gruppo Miniere Malacalsetta-Arenas.	Iglesias Fluminimagiore Malacalsetta.	Extraction and refining of lead and zinc.	G	
33. Soc. Italiana Ernesto Breda. Miniere di S.Leone, Mareddus e Salaponi.	Assemini - Siliqua Gommosfanadiga.	Extraction of magnetic and hematite minerals iron-ore.	G	
34. Azienda Bromo Italiano.	Cagliari S.Bartolomeo (presso R.Saline)	Extraction of Bromo.	G.	

5255

SHEET FOUR

LOCATION OF PLANT.	MANUFACTURE	CATEGORY	CONDITION OF PLANT.
Elmas R.Seraporto.	Repair of Aircraft (RA)	A	
Assemini.	Extraction of Bromo.	C	
ni. S.Antioeo Ponti.	Sulcis Coal distillation.	C	
Cagliari via La Palma.	Refractories Kaolin, Clay Grinders.	G	
Iglesias Fluminimagiore Malacalsetta.	Extraction and refining of lead and zinc.	G	
Assemini - Siliqua Gommosfanadiga.	Extraction of magnetic and hematite minerals iron-ore.	G	
Cagliari S.Bartolomeo (presso R.Saline)	Extraction of Bromo.	G.	

SUMMARY (BY CATEGORIES) OF AUXILIARY WAR MATERIAL PLANTSProvince of SASSARI - Region 6.

(As at May 1941)

NAME AND ADDRESS OF COMPANY.	LOCATION OF PLANT.	MANUFACTURE.	CATEGORY.	CONDITION OF PLANT.
1. Soc. di Correboi. Miniera Argentiera.	Sassari.	Extraction and refining of zinc and lead.	G.	
2. Soc. An. Mineraria Siderurgica Berronia.. Min di ferro della Nurra (Canaglia, Monte Rosso, e Monte Trudda.)	Sassari e Porto Torres.	Extraction of iron- ore.	G.	

5251

SUMMARY (BY CATEGORIES) OF AUXILIARY WAR MATERIAL PLANTSProvince of SASSARI - Region 6.

Categories: M- Metallurgical and Eng.
C- Chemical.
A- Automobile and Aeroplans.
L- Auxiliary Supply.
E- Electrical.
G- Generic (Refractories
abrasives, woods, paper,
glass, etc.)

NO. OF PLANT.	MANUFACTURE.	CATEGORY.	CONDITION OF PLANT.
1.	Extraction and refining of zinc and lead.	G.	
	Extraction of iron- ore.	G.	

0082