

FRANCE

(Corsica in separate section)

~~BRADBOURNE~~

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(Corsica in separate section)

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ALLIER

COLÈTTES, Allier, France

Map. p 99 F 3

MA 16 425 In Massif Central. Granite, mica-
schists, pegmatites. In peg: blue apatite,
amblygonite, brazilianite, childrenite, beryl.
In qtz veins, gorceixite, hinsdalite, wavellite,
natrojarosite. In granite & mica-schists:
wolframite, cassiterite

COMMENTRY, Allier, France.

Ec. des Mines (1963), Excellent "rhabdite"

[Hey = Schreibersite - meteoritic phosphide of
Fe & Ni]

DIOU, Allier, France

D₇II, 930. Bayldonite

MONTMINS, Allier, France.

MONTMINS, Echassières, Allier, France

MA 2 354: Minute xls iodargyrite in
cavs. in qtz veins, with pyrom
mimet, & epimorphs after fluor.

MONTMINS, Allier, France.

p. II, 24. Jodynite.

(LA) PRUGNE, Allier, France

MA 1 247 Mine du charrier — Baryte xls

ALPES-MARITIMES

Le CERISIER

Alpes-Maritimes, France

C. Guillemin (1956) B.S.F Met C 79 7-95
Tyrolite

DURANUS, Alpes Maritimes, France

See also LUCERAM

MA 2 284 Similar veins to those at
Luceram [qv], in calcite. - ^{but} only
realgar, grains & elong xls.

LUCERAM, Alpes Maritimes, France

See also DURANUS

MA 2 284: Orpiment xls, with S e realgar
in Ca-Ba veins traversing marls.
p184. Violet fluorite.

ALSACE

ARIÈGE

Bauxites.

Lherzolite - complex
in' morphics.

MA 70-1916 Beryl
in pegs in Pyrenees
4 locs (unquoted)

ARIZE, Ariège, France.

MA-⁶⁸⁻
69?

Mn deposits

ASTON Aniegs Pyrenees.

MA 19 315 Zircon

MA 19 303 Zircon in gneisses
ASTON - HOSPITALET

AUZAT, Ariège, France.

MA 69-869. Granite peg in at Auzat in
upper VICDESSOS valley, in gorge
between PLA-DE-L'ISARD and
PLA-DE-SOULCEM, Ariège, has garnet,
vivianite, beryl, tourmaline, chlorite,
apatite, autunite, mitridatite
(greenish-brown mamell), fairfieldite
(white fibrous).

AX - LES-THERMES Ariège? France
(See ASTON)

Map p171 E4

MA 69-868 Autunite 1-2 mm x 15 in

microcline-albite pegmatite $\sim \frac{1}{2}$
way between "Ax-les-Thermes"
e Bonascre

BRACHY, Ariège, France.

MA 268-69? Mn deposits

LA CABESSES, nr Saint-Girons, Ariège, France
↑
Map 170 B3

D₇ II 174. Rhodochrosite

MA ~ 68-9 Mn in limestone. Todorokite

LAQUORRE, Ariège, France.

Aulus: Map p 170 B4

D, II, 297 Leadhillite

551 Lanarkite from Laquorre mine, nr Aulus, Ariège

Éc. des Mines (1963) 19. Lanarkite, Laquorre, Ariège

NALZEN, Ariège, France

MA 69- Siderite, in bauxite

SALAU, Ariège, France.

MA 70-2184
MA 69-2010

Mine, to start 1970,
in upper Pyrenees, to be Europe's
biggest Scheelite mine.

AUDE

SALSIGNE MINE

Aude, France

FRANCE maps p154, 172 (1:200 000; 1cm $\equiv$ 2km)
14 km N of Carcassonne; mines $\sim$ 1km N of village

RSWB 97-26, 98-

Chalcophyllite, v.g. xls in gozzan
with good cyanothrichite, malachite,

SALSIGNE MINE

Aude

S. France.

R50B 97-26
plates in

Chalcophyllite, nice
gozzan with cyanotrichite

AVEYRON

ENTRAYGUES, Aveyron, France

Min. U de H-K. At Les Bois Travers, nr. Entraygues,

Big xls torbernite, on quartz

Ec. des Mines (1963) 22 Torbernite, Margabal,
Entraygues, Aveyron.

BAS-RHIN

TRIEMBACH

Bas-Rhin, France

C guillemin (1956) BSFMetc 72, 7-95,
Tyrolite

CANTAL

MASSIAC, Cantal, France.

Ec. des Mines (1963) 14. Excellent stibnite

ST. PIERRE-DU-CANTAL, Cantal, Fr.

A. Brousse, Min. Rec (1982) 262. An
Oligocene deposit of uranium is being
exploited at St. Pierre-du-Cantal

France, U Mines (1975).

St. Pierre
X • Bort

Tulle
•

• Mauriac.

CHER.

Central France

Centre of France.

MEHUN, Cher.

France.

Ec. des Mines (1963) 14: Excellent rose opal

CORRÈZE

Michelin Map 73 If (SW corner); 111 F3

LES FARGES, Ussel, Corrèze, France

RSWB 80-142 Ex Sam Weller, & others seen
Pyromorphite fine spec's w large xls
on white platy barite

A. Brousse Min Rec (1982) 13 [5] 262 Details;
map, photos of spec's.

galena, some sphal. in barite above &
quartz below. Microscopic silver ore
pockets in upper parts. yellow fluorite
calcite. Sec'y ph's at all levels, not
typical "iron hat." Pyromorphites >
[4 habits]

mimetite > cerussite > phosgenite > wulfenite
[eg red plates on yellow pyro] > vanadinite >
desch-mottacinite. Also: —

Arsenic, silver, acanthite, arsenopyrite, chalcophy,
covellite, digonite, gersdorffite, marcasite,
pyrite, pyrrhotite, andorite, báulanger, bournon,
disclas, enarg, famatin, fizely, freiberg,
freiesleben, götsch, placite, proust,
semsey, tetradrite, goethite, magnetite.

Closed 1981; flooded; dumps still
rich in micro's.

1.5 km SE of centre of Ussel

Map shows other veins, of Ba, F, Pb
etc in area.

CREUSE

MONTEBRAS, Creuze, Plateau Central, France.

Atlas p 98 C3

D₇ II 783. "Morinite", var. of Ježekite $\text{Na}_4\text{CaAl}_2(\text{PO}_4)_2(\text{OH})_2\text{F}_2\text{O}$

tiny, pale rose, prismatic monoclinic xls, with wardite,
wavellite, fibrous apatite & cassiterite, as an
alter. of amblygonite. Montebbras tin mine

826 Montebrasite $[\text{OH} > \text{F}]$ & amblygonite $[\text{F} > \text{OH}]$.

863 Libethenite

941 Wardite ~~var~~ "soumansite" - alt prod of amblyg.

949 Turquoise with wavellite as alt of amblyg. in
pegmatite.

D₆ App II p2 Amblygonite

Ec. des Mines (1963) 21. Morinite, excellent,

CROZANT, Creuze, France.

MA 77-2172 PO_4 -pegmatites with
abundant brownish-black cleavable
tripleite, also phosphosiderite, bermanite,
lipscombite, Mn-cacoxenite, phosphoferrite,
ludlamite, vivianite.

DEUX SÈVRES

PLESSIS, Mortagne, Deux-Sèvres, France.

Min. U. de H-K: Saleeite, with autunite &
limonite on quartz

D R Ô M E

CONDERCET, Drôme, France.

G. Jung, Spec ~~RS~~ 12/83, [83-127].

Tunisite, clear c'less xls in vughs
with calcite in a ^{brown} sandy limestone

88-5 ex GJ Tunisite w. celestine
in grey sandy limestone

RÉMUZAT, Drôme, France.

Bakewell Show (2011) Septarian nodules
with xls of celestine, ankerite, quartz
"No longer available".

FINISTÈRE

~~FRANÇOIS~~

~~JECHÉ~~

~~Arénioside~~

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CORAY, Finistère, France.

Ec. des Mines (1963), 22: Staurolite, v. fine.

Finistère

HUELGOAT, Poullaouen, Brittany, France.

Miers (1929). Pyromorphite, large dull-violet. hexag
prisms ("some of the finest") in the lead mines
of Poullaouen, sometimes altered into galena.

<u>D₇ II, 14</u>	<u>Bromargyrite</u>
204	<u>Cerussite</u> "notably" at Poullaouen & Huelgoat
422	<u>Anglesite</u> at H & P.
832	<u>Plumbogummite</u> at H
893	<u>Pyromorphite</u> at H & P
1012	<u>Diadochite</u> $\text{Fe}_2 \text{PO}_4 \text{SO}_4 \text{OH} \cdot 5\text{H}_2\text{O}$ at H

D₆ App II p82 "Plumbogummite" from Huelgoat proven to be

a mixture - Hartley, MM 12 223, Miers ibid p. 239.

Ec. des Mines (1963) 20. Superb pyromorphite,
Huelgoat, Finistère. xls ~~1~~ 2 cm diameter!

Finistère

POULLAOEN, Brittany, France.

See HUELGOAT

GARDE

ALAIS, Garde, France

Vug anglosite, in galena

HAUTES ALPES

nr Gap

JAS ROUX, Chabourneou, ^{nr gap}
Hautes Alpes, France.

RWB 72-169 Chabourneite w realgar
+ other rare Tl min

HAUTE LOIRE

ALLY, Haute Loire, France.

Ec. des Mines (1963) 12. Excellent bournonite

HAUTES-PYRÉNÉES

COURRET MINE, Gavarnie, Hautes-Pyr. France

MA 69-562 . In upper Gavarnie valley,
4 km from GÈDRE (q.v.). Siderite-
baryle vein with millerite, linnaeite
& other Fe, Co, Ni sulphides

GÈDRE, Haut-Pyrénées, France.

MA 23 72-2230

Ec. des Mines (1963) 21.

gedrite - classic loc
gedrite

PIERRE FITTE, Hautes Pyrénées, France.

<u>MA 73-1891</u>	<u>Pb/Zn deposit with Ag minerals</u>
<u>73-1881</u>	<u>Sphalerite, pyrrhotite</u>
<u>72-3238</u>	<u>Ba-lepidomelane</u>

SARRANCOLIN, Hautes-Pyr. France.

MA 74-2015 BEYRÈDE quarry, S of
Sarrancolin, in Permo-Trias sandstone
has mineralised quartz veins of 3
types. ① Cu - chalcopyrite
② Pb, Zn, Cu.
③ Co, Ni, with glauco-dot
saffronite, sammelsbergite,
pararammelsbergite, argentif. tennantite,
rarely pearceite.

VIELLE AURE, Hautes-Pyrénées, France

D₇ II 174 Rhodocrosite, with rhodonite & friedelite

MA 69-2985 PEYRESOURDE - Vielle Aure, Mn
deposits - many black oxide species

HAUT - RHIN

KRUTH, Haut-Rhin, France

Min Ude H-K. Billietite with pitchblende.
Sharpite, with uraninite & ? billietite

MARKIRCH, Alsace, France Haut-Rhin

D, II 13. Cerargyrite

214 Dolomite as gangue in veins

702 Pharmacolite, excellent but v-small xls, at
Sainte-Marie-aux-Mines (Markirch) Alsace.

749 Earthy erythrite

789 Clinochase, at Markirch, in the Vosges.

798 Erinite, from Markirch, Vosges, Germany.

STE. MARIE-AUX-MINES, Haut-Rhin, France. ^(I)

MA 7 489. At Gabe-Gottes mines.

Lautite $[CuAsS]$ xls $\rightarrow$ 7mm, with arsenic,
tethed, chloanth, rammelsb, löll,
proust, & xanthocomite.

Ec. des Mines (1963). Arsenic. 3cm polysyn xls
(world's best?); Chalcopyrite.

Pharmacolite (world's best?) - Gabe's Gott - BAS RHIN

STE. MARIE-AUX-MINES, Haut-Rhin, France (II)

MA 81-1869 Ferrarisite, $\text{Ca}_5\text{H}_2(\text{AsO}_4)_4 \cdot 9\text{H}_2\text{O}$, new,
c'less crusts of thin plates, white on dehydr'n.
from GABES-GOTTES vein

HAUT-VIENNE

Les BIARDS M., Haute Vienne, Fr.

R. Tayler (1983) spec → RSWB. Stibnite
some altered to creamy white
massive stibiconite + senarm(?).

BRUGEAUD, Bessines, Haute-Vienne, France

Min. U de H-K: Sharpite, in an earthy
yellow gummite

~~ALMOGES~~ ^{Limoges} pr. Chanteloubes, ^A Haute-Vienne, France.

D₇ II 851. Triplite (D₆ 408)
06. 1028 Bertrandite, in cavities in the beryl.

CHANTELOUBE, Haute-Vienne, France,

D₆ App I, 10. Beryl var emerald - Anal. - Lebeau, C.R.
121, 601 (1895).

LA CROUZILLE

Haut-Vienne, France,

See also MARGNAC

Min. U de H-K. lanthinite with pitchblende

LIMOGES, Haut-Vienne, France.

MA 7,237. Auriferite

MARGNAC, Haute-Vienne, France

see also LA CROUZILLE

Min. u. det. u. Billietite on gummite & uranophane.

Ianthinite, with pitchblende.

Margnac II: Schoepite with pitchblende,
gummite, part $\psi \rightarrow$ ianthinite. Uranophane,
with billietite, & phosphouranylite.

Ec. des Mines (1963) 21 Autunite

JRK 1971 β -uranophane  - Margnac II

Bull Soc Min (1956) LXI Exhib's: well x'd α -uranophane,
Schoepite; sabugalite

PUY-LES-VIGNES, nr. Saint-Léonard, Haute-Vienne, France

See also VAULRY

D₇ II 997. Pharmacosiderite

Ec. des Mines (1963) 20: Excellent scorodite

Haute-Vienne
VAULRY, nr. Limoges, France.

(I)

See PUY-LES-VIGNES

Map p 96 C4

D₇ II 766 Scorodite, at Vaulry, NW of Limoges, & ~~also~~
elsewhere in Haute-Vienne.

997 Pharmacosiderite

1002 Beudanticite, in cavities in vein-quartz
at Blond, near Vaulry.

Lacroix (1901) Index: Vaulry, Haute Vienne: Apatite;
autunite; cassiterite; copper; cuprite;
ferberite; löllingite; arsenopyrite;
molybdenite; molybdite; gold; scorodite;
pharmacosiderite; tourmaline; limonite;
wolfram.

MA 10, 6. Cu, Sn, W ores. 2 forms of stannite;
chalcopyrite; bornite; löllingite;
chalcocite; covellite; tetrahedrite;
a little molybdenite

Bull Soc Fr Met Cr. (1970) 93. From MOULIN ROUSSET,
Vaulry, Haute-Vienne: - Stolzite at schellite-
galena contact, with galena, blende,
pyrite, marcasite, pyrrhotite, freibergite.
Canfieldite, with arsenopyrite, galena,
blende, cassiterite, pyrargyrite, freibergite,
freieslebenite, pyrrhotite, scheelite.

VAULRY, Haute-Vienne, ~~France~~ France. (II)

HÉRAULT

CABRIÈRES, Hérault, France.

Ec. des Mines (1963). Excellent tetrahedrite

CEILHES,

Hérault, France.

C. Guillemin (1956) Bull SocFM et C. ~~79~~ 7-95
Tyrolite

MONTDARDIER, Hérault, France.

Bull Soc Min (1956) Lxi (Exhibit).

From old Pb/Cu mine of SANGUINED,
nr. Montdardier, blue glob.
smithsonite & xls bournonite pseudo-
ed into cerussite & malachite

MONT PELLIER, Hérault, France

D₇ II, 27. Calomel with native mercury, in a
calcareous conglomerate.

SANGUINED M., Hérault, France.

See MONTDARDIER.

ISÈRE

ALLEMONT, Isère, France.

See also Les CHALANCHES; SARRASIN

BM. Valentinite, thin gray plates in parallel growth
[also occurs in sheaves]  - "Allemont"

Lacroix (1901) Index: Ankerite; silver; calcite;
haematite; magnetite; siderite

ALLEVARD, Isère, France

See also ST. PIERRE D'ALLEVARD;

D₇ II, 169. Siderite, finely x-lised. (Ec. des Mines
(1963))

Lacroix (1901) Index: Albite; calcite; goethite;
haematite; limonite; manganite;
magnetite; tetrahedrite; pyrite;
quartz; ranciëite [Hey: $(Ca, Mn^{++})Mn^{IV}_4O_9 \cdot 3H_2O$ - calcium
"calcium-psilomelane"]; siderite; sulphur.

L'ARMENTIÈRES, Rocher de, Bourg d'Oisans, Isère, France

See also BOURG D'OISANS, etc.

Lacroix (1901). Anatase: with brookite & crichtonite, implanted with ripidolite (a chlorite), on the calcite xls of Armentières. Prehnite: "les rochers d'Armentier au dessus du hameau du Vernis," Axinite: "...soit et dessus du hameau du Vernis au rocher d'Armentier (ou d'Armentières)." Epidote: "au dessus du hameau du Vernis".

Index: VERNIS, (hameau de): Axinite.

ARMENTIER (rocher d'): Albite; anatase; axinite; brookite; calcite; epidote; crichtonite, on calcite, with brookite & anatase ("probable loc"); prehnite; ripidolite.

D₆ ~~529~~ 531. Prehnite, with axinite & epidote.

AURIS, Isère, France.

See also La BALME

Lacroix (1901): Prehnite: "les environs d'Auris
et surtout la Balme". Axinite: "...la
montagne d'Auris..."

Index: Village d'Auris: quartz; stibnite.
Montagne d'Auris: axinite; prehnite;
calcite; pyrite.
Entre Auris et le Freney: quartz.

La BALME, nr Auris, Isère, France.

See also AURIS; RAMPE DES COMMÈRES

Lacroix (1901): Prehnite: "surtout la Balme".

Axinite: "au hameau de la Balme"

Epidote: "la Balme d'Auris".

Index: "Balme d'Auris"; Adularia; albite;
axinite; epidote; heulandite;
prehnite; ripidolite.

BÂTON, Isère, France.

Lacroix (1901), Index: "Cascade de Baton, vallée de la Romanche, Isère": axinite; wulfenite.

1:50,000 map "Vizille", shows "Bâton" on the Romanche, near 886, 320. Where a stream "Rau. de Bâton" meets the Romanche, from the N, at st Ls.

BELLEDONNE, Isère, France.

Lacroix (1901), Index: "Massif de Belledonne": Epidote;
almandine; quartz; sipidolite.

Lac BLANC, Isère, France.

See also L'HERPIE

Lacroix (1901), Index: Cerussite; Tetrahedrite.

BOURG D'OISANS, Isère, France.

See other Isère cards also. eg SE. CHRISTOPHE-EN-TOISANS; LA GARDETTE;
L'ARMENTIERS; HUEZ etc; La LAUVITEL

Miers (1929) Anatase with quartz. Quartz, Japan
twins "from an old mine near Bd'O" [= La
gardette?]. Rock xls lining cavities in xline
schist. Prehnite in fine groups near
Bd'O assoc. w. superb axinite, epidote,
orthoclase, albite, & calcite, & sometimes
enveloped by white asbestos.

MA 7 21 Adularia (anal.). 364: Epidote (anal.)

D, III. The "Dauphiné" quartz loc. is La Gardette,

near B'd'O [qv].

D₆ 105

Tetrahedrite

Smoky quartz - B'd'O.

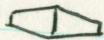
"Oisans, Dauphiné"

BM:

Chalcopyrite, big iridescent twinned sphenoids, with
quartz - "B'd'O".

yellow chunky xls - "B'd'O". Stilbite, crust of pale

black lustrous xls Crichtonite,
platy ilmeneite, on qtz (Max Hey: "Try to find
some, exact loc. not known") with anatase.



Lacroix (1901) Index "Environs de B'd'O": Albite; axinite;
biotite; brookite; ^[Hey = syn. of arbestos] byssolite; crichtonite;
epidote; prehnite; pyrite; quartz; ripidolite;
stilbite; talc.

BRANDES, Isère, France.

Lacroix (1901), Index: Baryte; cerussite;
pyromorphite; tetrahedrite.

Buisson, Isère, France.

Lacroix (1901), Index. "Mines du Buisson":
Tetrahedrite.

Les CHALANCHES, nr. Allemont, Isère, France.

See also ALLEMONT

Lacroix (1901). Sphene: "Chalanches, nr. Allemont".Index: "Puis Vaussenat [not on 1:50,000 B'd'o. map], aux mines des chalanches, Isère": silver, smaltite

"Mine des Challanches, nr. Allemont": Allemontite;
almandine; amalgam; ankerite; annabergite;
antimony; silver; argentite ("argyrite");
arsenolite; asbestos; asbolite; axinite;
bieberite; blende; calcite; cerargyrite;
cerussite; chalcopysite; chloanthite;
cinnabar; cobaltite; dolomite;
dyscrasite; epidote; erythrite;

galena; gypsum; kermesite; löllingite;
mercury; arsenopyrite; niccolite; olivine;
tetrahedrite; pyrargyrite; pyromorphite;
pyrite; quartz; safflorite; smaltite;
sulphur; sphene, spinel; skibnite;
stilbite; valentinite.

CHAMP (car. des), Vizille, Isère, France.

See also VIZILLE

Lacroix (1901), Index: "Champ (car. des)" nr. Vizille":
Albite; anhydrite; gypsum; haematite.

La CHEVRETTE, Isère, France.

Lacroix (1901), Index: "Filon de la chevrette":
Dolomite; siderite.

CHICHILIANNE, Isère, France

See SÉCHILIENNE.

CIME DE CORNILLON, Isère, France.

See also MÉLAINE.

Lacroix (1901): Axinite: "la Cime du Cornillon".

Epidote, in the crystalline schists of
Cornillon nr the hamlet of Mélaïne.

Index: "Cime du Cornillon": Axinite; epidote.

CLAVANS, Isère, France.

See also MIZOEN.

Lacroix (1901), Index: Quartz; also "entre
Clavans et Mizoën".

TBG 1968? Anatase, beaut. small blue xls
in quartz. First found in boulders
high up, ca $\frac{1}{2}$ km before Clavans le bas.
[See RSWB 68-239, 70-168]

La COMBE DE LA SELLE, gorge du Diable, St. Christophe-en-O, Isère, France

See also ST. CHRISTOPHE-EN-OISANS etc.

Lacroix (1901) Brookite. Anatase "au dessus de pont du diable". Superb prehnite "plus beaux" [photograph of specimen] — "sur la rive gauche de la gorge du Diable, à la Combe de la Selle; un peu en amont du chalet de la Selle; La Combe de la Selle "est encore assez riche". Axinite. Epidote at "les environs du chalet de la Selle, dans la gorge du Diable, nr. St. Christophe (Combe de la Selle)".

Index: Adularia; albite; anatase; axinite; brookite; calcite; epidote; haematite; monazite; prehnite; quartz; stilbite; turnérite [Hey = syn. of monazite] pro.

GORGE DU DIABLE: Epidote; prehnite; graphite.

COMBE DE MADAME, Isère, France.

Lacroix (1901), Index: Epidote. "Combe de Madame,
région des Sept lacs".

COMBOIRE, nr Seyssins, Isère, France.

Lacroix (1901), Index: Celestine; hatchettine;
paraffin

L'EAU D'OLLE River, Isere, France.

Lacroix (1901), Index: quartz.

FOURVOIRIE, Isère, France.

Lacroix (1901), Index: Celestine

FRESNEY d'OISANS, Isère, France.

Lacroix (1901). Anatase: les environs de Fresney d'O.

Index: Albite; anatase; galena; monazite;
tetrahedrite; pyrite; quartz; stibnite;
turnèrite [= monazite].

Quartz: entre Auris e Le Freney.

La GARDE-en-Oisans, Isère, France

See also BOURG D'OISANS; SARENNE; MARONNE; HUEZ, etc.

Lacroix (1901), Index: Mesotype; orthoclase.
"Garde-en-Huez": Quartz.

La GARDETTE, Bourg d'Oisans, Isère, France.

See also BOURG D'OISANS, etc.

BM: Superb quartz xls.

Dana, Vol III. The "Dauphiné" quartz loc. is La Gardette, nr. B'd'o.

Pawłowski (1919), 153. gold mines: La Gardette - auriferous
geodes of quartz, with "sulfures", tetrahedrite, or
native (Au). Gold in quartz or assoc. with "U, or Bi
sulfure plombo-cuprifère" or galena.

Lacroix (1901) Index. "Mine de la Gardette": Aikinite; baryte;
calcite; cerussite; chalcopyrite; galena;

gold; massicot; tetrahedrite; petrol; quartz;
polycrase; pyromorphite; stibnite.

Vol III: Quartz: Best French loc is la Gardette gold mine, near Villard-Eymond by Bⁿd'O. - crystals often need HCl treatment.

Index. "GUEYMARD, (filon) à la Gardette" - gold.

GORGE DU DIABLE, St. Christophe-en-Oisans, Isère, France

See LA COMBE DE LA SELLE.

THE GRAND CLOS, nr Bourg d'Oisans, Hautes Alpes, France

VW Smyth (1848) Mem geol Surv Vol II, Pt 2, p. 643. Great natural (lode) profile of the Grand Clos near La Grave, between Bourg ~~de~~ d'Oisans & Briançon in the Département des Hautes Alpes. ~~the~~

From valley of the Romanche, the mtn on LHS towers 4-5000' ~~to~~ glaciers, ^{bare} rock face obscured only at base for a few hundred ft by detritus. Above this talus, a mineral vein, called Fécheronde rears itself unbroken to the lofty elevation where it is concealed by perpetual ice. Width 10"-3 ft. Has galena & traces of copper & iron pyrites. (Tried, not successfully)
On opp side of valley two other lodes, Pissenoire and

Javanelle similarly displayed in a section of gneiss
rising 1800 ft above the valley.

GRAND-CLOS, Isère, France.

[cf Mine of grand-Clos, nr. la grave, Hautes-Alpes].

Lacroix (1901), Index: Cesussite

GRANDE-FO~~S~~SE, nr. Vizille, Isère, France.

See also VIZILLE.

Lacroix (1901), Index: Siderite; sideroplésite [Hey:
var. of chalybite, with $MgCO_3$ 5-30%].

? 898 32x?

GRANDES ROUSSES Massif, Isère, France.

Lacroix (1901), Index: Albite; calcite; haematite var
eisen rose; pyrite; quartz; Epidolite

GRAND FERRAND, rocher du,

Isère, France

Lacroix (1901) Anatase - "le rocher du grand Ferrand,
pres de la lac de la Fare, avec quartz,
albite, etc, dans les fentes d'une granulite."
Index: Anatase.

L'HERPIE, nr. Huez, Isère, France.

See also HUEZ etc., Lac BLANC;

Lacroix (1901), Index: Baryte; cerussite; quartz;
mimetite; tetrahedrite.

1:50,000 map, "Vizille" shows "Anc. Mines" below the ridge
of L'Herpie, in a N-S line from 8961 3181 to
8961 3167

HUEZ, Isère, France.

See also MARONNE, L'HERPIE, LA GARDE, SARENNE,

Lacroix (1901): Rutile: fine needles in quartz, in
the neighbourhood of Huez.

Index: Actinolite; barite; cerussite; galena;
mimetite; tetrahedrite; quartz; rutile.

l'INFERNET, Isère, France.

See also RAMPE DES COMMÈRES

Lacroix (1901); Index. "Filon de l'Infernet": stibnite;
galena.

1,50,000 map "Vizille" shows "gorges de l'Infernet" as
E extension of Rampe des Commeres [qv]
beside the Bourg d'Oisans to Briançon road.

LAFFREY, Isère, France.

See also PRUNIERES; ST. PIERRE DE MÉSAGE. LAMURE

Lacroix (1901), Index : Grand Lac de Laffrey [871, 305-8] :
Anthracite; blende; bournonite; calcite;
cerussite; dolomite; galena; stibnite;
tetrahedrite; smithsonite.

LAMURE

Isère, France

See Le Peychagnard.

M. Pignard, Spec → RSWB, 8/68. Bournonite xls;
sphalerite, low-Fe, clear brown xls; with
quartz xls, platy calcite; baryte, on rock:
"Coal mines, Lamure, Isère".

Ec. des Mines (1963) 18. Nesquehonite mass
of 3 cm + needles, prob. world's best -
La Mure, Isère

Lac

LAUVITEL, Isère, France.

D₆ App I, 68. Sphene xls.

Lacroix (1901) Index: Lac LOVITEL, Bourg d'Oisans. Sphene,
hornblende; microcline.

Sphene "sur la rive gauche du lac Lovitel (ou
Lauvitel) près Bourg d'Oisans" - in a microcline
granite rich in xls of amphibole & poor in
quartz.

MARONNE, Huez, Isère, France.

See also La GARDE; HUEZ

Lacroix (1901). Anatase = Maronne en Huez, ou les cristaux proviennent d'un grand filon de quartz, exploité autrefois pour l'extraction du quartz hyalin ou enfume (avec d'énormes cryst. de calcite et de sphene - "spinthère"). Sphene: On clear quartz & calcite - the veins of quartz of Maronne, (between La Garde & Huez) give good crystals of calcite & smoky quartz with chlorite & sphene var "spinthère" ("par allusion au scintillement qu'on observe sur leurs faces quand on les fait mouvoir devant la flamme d'une bougie"). → [=candle]

Index: MARONNE (Filons de; entre Lagarde et Huez): Anatase
quartz; calcite; ripidolite; spinthère; sphène.
MARONNE-en-OISANS: Blende; pyromorphite.

Ec. des Mines (1963) 18: Exc. 30 cm rose
calcite xl on gangue!

MÉLAINE, nr. Bourg d'Oisans, Isère, France

See also CIME DE CORNILLON.

Lacroix (1901). Epidote, old specimens in collections from near the hamlet of Mélaïne, in the xline schists of Cornillon.

1:50,000 map "Vizille" shows hamlet of Malaine, under Cornillon, near 8873 3163

MEYLAN, Isère, France.

Lacroix (1901), Index: Albite; calcite; celestine;
dolomite; orthoclase; petroleum; pyrite;
quartz.

MIZOEN, Isère, France.

See also CLAVANS.

Lacroix (1901), Index.
Mizoen - quartz.

*Between Clavans &

MONT DE LANS,

Isère, France.

See also RAMPE DES COMMÈRES,

Lacroix (1901). Anatase: le glacier du Mt de Lans.
Rutile, needles in quartz; le glacier du Mt de L.
Sphene: le glacier du Mt de Lans.
Prehnite: ... de la Rivoire en Mont de Lans.
Axinite: dans divers points de la montagne du
Mont de Lans. Du glacier de Mt de Lans.
Epidote: ... la Rampe-des-Commères (quartier [=neighbourhood]
de la montagne du Mont de Lans sur la
route de Briançon).

Index: LANS, MONT DE: Axinite; quartz.

LANS, GLACIER DU MONT DE: Adularia; anatase;
axinite; sphene; rutile.

La MOTTE - D'AVEILLANS, Isère

Lacroix (1901) Index: Mesquite; pyrite; siderite

La MOTTE - SAINT-MARTIN, Isère, France

Lacroix (1901) Index: Mesitite [var of magnesite with FeCO_3
30-50%]; siderite

OULLES, Isère, France.

Lacroix (1901), Index: "Mines de Oulles"; Chalcopysite;
galena; tetrahedrite.

Le PEYCHAGNARD, nr La Mure, Isère, France.

See also ST AREY.

Lacroix (1901), Index: tinanthite; anthracite; baryte;
blende; bournonite; diadochite; epsomite;
galena; melanterite; pyrite.

D₆ App I, II. Bournonite xls

La PEYRÈRE, Isère, France.

Lacroix (1901), Index: Blende; galena;
smithsonite.

La PLACETTE, nr. Pommiers, Isère, France.

Lacroix (1901). Sphene "jolis xls. en blocs de granite
et amphibole erratique à la Placette, nr. Pommiers"

POYPE, nr. Vienne, Isère, France.

See also VIENNE

Lacroix (1901), Index. "Filon de la Poype, nr. Vienne, Isère":
Barite; blende; chalcedony; calcite.
cerussite; dolomite; galena; pyrite
plumbogummite; arsenopyrite;
pseudocalcedonite; pyromorphite;
quartz; smithsonite.

PRUNIERES, Isère, France.

See also LAFFREY.

Lacroix (1901), Index: Bleinierite; blende; quartz;
bournonite; cinnabar; erubescite;
smithsonite.

"COMBE-GUICHARD nr Prunieres". Bournonite;
smithsonite; cinnabar.

Le Puits Mtn, St. Christophe-en-Oisans, Isère, France.

Lacroix (1901) Index: Adularia; albite; anatase; brookite;
monazite; pyrrhotite; quartz; ripidolite;
scheelite; sphene.

Vol III, 173. Brookite - "les Puys".

Anatase: "surtout [= overcoat; aboveall; chiefly: centre
piece of a dinner service] la montagne de Puys, nr. St.
Christophe."

Sphene: "les environs de la
montagne des Puits nr St. C.". in "les fentes des
granulites"

RAMPE DES COMMÈRES, Bourg d'Oisans, Isère, France.

See also La BALME; MONT DE LANS; L'INFERNET

Lacroix (1901): Prehnite: "... divers points de la R. des C."

Axinite: "sur la rive gauche de la Romanche,"
à la R des C sur la route de Briançon."

Epidote: "la R des C, (quartier [neighbourhood] de la
montagne du Mont de Lans, sur la route
de Briançon).

ROBERTS, Livet, Isère, France.

Lacroix (1901), Index: Epidote.

ROMANCHE River, Isère, France.

See also BOURG D'OISANS, & other places on the river!

Lacroix (1901), Index: Axinite; chalcocynite,
erichtonite; quartz; sepidolite; siderite.

ST. AREY, nr. La Mure, Isère, France.

See also Le PEYCHAGNARD.

Lacroix (1901), Index: Blende; smithsonite.

Ec. des. Mines (1963) 12 Bournonite

ST. CHRISTOPHE-EN-OISANS, Isère, France.

See also BOURG D'OISANS & other Isère cards eg. LA COMBE DE LA SELLE; MONT DE LANS; LEPUITS;

D₆ App I, 53: Phenacite.

D₆ 529: Axinite, with albite, prehnite, & quartz.

531: Prehnite, with axinite & epidote.

BM: Brewsterite, white prisms, with quartz.

Lauroix (1901) Index: Adularia; albite; anatase; beryl; brookite; calcite; crichtonite; dolomite; graphite; haematite; phenacite; palygorskite; (pichtite); quartz; rutile; stibnite; ripidolite. → [Hey = syn ♂] sphene

ST. PIERRE D'ALLEVARD, Isère, France.

See also ALLEVARD.

Lacroix (1901), Index: Ankerite; blende; galena;
bournonite; meritite; tetrahedrite;
pyrite; siderite.

ST. PIERRE-DE-MÉSAGE, nr. Vizille, Isère, France.

See also VIZILLE; LAFFREY, etc.

Lacroix (1901), Index: Ankerite; aragonite;
bournonite; calcite; dolomite; tetrahedrite;
quartz; pyrite; siderite.

La SALLE-EN-BEAUMONT, Isère, France.

Lacroix (1901), Index: Annabergite; niccolite.

SARENNE stream, Bourg d'Oisans, Isère, France.

See also BOURG D'OISANS; HUEZ etc; MARONNE; La GARDE.

Lacroix (1901), Index. "Torrent de Sarrenne, Isère": quartz.

SARRASIN stream, Isère, France.

Lacroix (1901), Index: "Trou-des-Sarrazins, nr. Allemont"
Calcite.

1:50,000 map, "Vizille" shows stream of "Sarrasin", rising at 896 320 near Lac Blanc [qv], flowing ca WSW, past l'Alped'Huez, ending suddenly in a tiny pond at 890, 317₄ near Villard-Reculas, 1626 metres up! & 3 km S of Allemont. "Trou" = hole, gap, or hovel.

Alpe SARRET

Isère

Lacroix, (1901), Index: Epidote - "Alpe Sarret, NE of
Bourg d'Oisans"

SÉCHILIENNE, Isère, France.

Lacroix (1901) Index: "Sechillienne": blende; galena; chalcopryte.

1:50,000 map "Vizille" shows "Anc. Mine" to N of the village, at 8757 3122, near Les Mouniers.

Lacroix (1901) Index: "Chichilienne": pyrite

La SELLE, Chalet de, or La Combe de, St Christophe Isère
See LA COMBE DE LA SELLE France

TAILLEFER Massif, Isère, France.

Lacroix (1901), Index: "Massif du Taillefer": Epidote;
zoisite.

La TÊTE DE TOURA

Isère, France.

Lacroix (1901): Anatase. Sphène: "Le lac Noir au
pied de la Tête du Toura (côté Nord)."
Index: Axinite.

TÊTE-MOUTHE

Isère, France.

Lacroix (1901). Axinite: "...par un petit nombre de points de Tête-Mouthe et du glacier de Mont de laus".

THEYS, Isère, France.

Lacroix (1901), Index: "Mine de Theys, Isère": Blende;
arsenopyrite; siderite

TRÉMINIS, Isère, France.

Lacroix (1901), Index: "Tréminis, au-dessus de la
Fontaine-Ardente, Isère": Petroleum; quartz.

VAUJANY, Isère, France.

Lacroix (1901). Index: Gypsum; quartz.

1:50,000 map ^{*}~~Bourg d'Oisans~~ "Vizille" show "Anc. Mines" above
Vaujany, near 8950 3247.

VAUSSENAT, Isère, France.

See also Les CHALANCHES.

Lacroix (1901), Index: "Puits Vausсенat, aux mines
des Chalanches, Isère": silver; smaltite.

1:50,000 map "Vizille" shows mine of "Les Chalanches" at
88753220, near Allemont, but no "Vausсенat" is
shown.

Le VERNIS, Bourg d'Oisans, Isère, France

See L'ARMENTIÈRES.

La VERPILLIERE, Isère, France.

Lacroix (1901), Index: goethite; limonite;
pyrite.

VIENNE, Isère, France.

See also La POYPE.

Lacroix (1901), Index: Baryte; blende; calcite;
galena; mercury.

La VILLETTE, Vaujany, Isère, France.

Lactoir (1901). Anatase - "la rive gauche du ruisseau
[brook] du Flumet, près du hameau de la Villette
en Vaujany.

VIVARAS, Isère, France.

Lacroix (1901), Index: Sphene.

VIZILLE, Isère, France.

See also CHAMP; GRANDE-FOSSE;

Lacroix (1901) Index: Anhydrite; aragonite; pyrite;
quartz; siderite

LOIRE

St. PRIEST - LA - PRUGNE, Loire, France.

Min. U de H-K: Les Bois Noirs, nr St. Priest-la-Prugne
lanthinite, with renardite & pitchblende.
Totkernite; kasolite; with parsonsites,
renardite, cerussite.

LOIRE INFÉRIEURE

VILLE-ÈS-MARTIN, St. Nazaire, Loire Inf., France.

D₆ 1029. Brookite, "in fine xls"

SAINT-AUBIN des CHATEAUX, Loire-Atl., France

MA 81-1850

Pyrite xls (distorted habits)

LOZÈRE

Eq Aveyron

Eq Aveyron

Ste LUCIE, Lozère,

France.

Ec. des Mines (1963) 19: Excellent stolzite

BM: stolzite, grey tabular xls, with
galena & quartz.

MANCHE

(NW France) Cherbourg

St-Lô, Manche, France.

Ixer & Stanley MM (1983) 545

At MENILDOT nr St-Lô, (Brittany)

cinnabar-pyrite veins cut
Brioverian metamorphics.

MARNE

EPERNAY, Dept. Marne, France.

D₇II, 923. Evansite $\text{Al}_3(\text{PO}_4)(\text{OH})_6 \cdot 6\text{H}_2\text{O}.$

MAYENNE

E. of Rennes

E of Rennes.

~~LA~~ LA LUCETTE, Mayenne France.

Ec. des Mines (1963) Stibnite

MORBIHAN

^{Morbihan}
BAUD, Brittany, France.

H. Conkes stock (coll. Richard Tayler) 12/71. [RS10B 71-319]

Staurolite large grey x1 sections

ILE de GROIX, Morbihan, France.

Ec. des Mines (1963) 23. Glaucophane,
excellent spec.: Pointe des Chats, Ile de
Groix, Morbihan
~~France~~.

KERSEGALEC, Lignol, Morbihan, France
~20 km W of PONTIVY See also LIGNOL

Min. U. de H-K. Wölsendorfite on pitchblende
Renardite, with torbernite & autunite.

Bull Soc Min (1956) LXI Kasolite,
uranospherite, various hydrated U
oxides.

LIGNOL, Morbihan, France

Map p 46 B2

See also KERSEGALEC

Bull Soc Min (1956) LXI

calcian xenardite

kilos" [!!]

Masses of
to "plusieurs

ROZULER, ? Lignol ? Morbihan, France.

Bull Soc Min ~~xxx~~ (1956) LXI

Beaut xls sabugalite from
"voisin de Rozuler"

MORBIHAN, Brittany, France.

See also VILLEDER

Map p 47 FL

D₇ II, 766 Scorodite

998 Cacoxenite, at Rochefort-en-Terre, Morbihan
↓

Lacroix (1901) Sphene, at l'île de Groix

VILLEDER, Morbihan, ^{Brittany} France
See also MORBIHAN

D₇ II 886 Apatite in the tin veins.

BM: Apatite, blue xls in massive quartz.

Pawłowski (1919) Sn mines: Mines de la Villeder, Morbihan.
2 km W of Roc St. André. Quartz, with cassiterite,
"l'argile", iron, arsenic, emeralds [!] & topaz. ~~etc.~~

Ec. des Mines (1963) Exc. cassiterite

Puy-de-Dôme

ANZAT-LE-LUGUET, Puy-de-Dôme, France.

Sq Clermont Ferrand 113 D2

MA 5 134. Stibnite, in large, radiating
prisms.

LE BEIX, Puy de Dôme, France.

Map p 112 B2

Ec. des Mines (1963) 14 Excellent fluorite
polysyn xls - 25 cm!!

RSWB 80-186 Fluorite, excellent blue &
purple zoned large xl.

A. Brousse, Min Rec (1982) 262 Near
Bourg-Lastic - a vein of fluorite, yielded
splendid blue spec's, exploited 1906-
1977

GOURNIAUD Puy-de-Dôme, France

Bull Soc Min (1956) LXI

Parasite xls to 5 cm [!!!]
from the old déblais du gîte
de Gourniaud (Puy-de-Dôme).

Not seen near Lachaux/gagnol on Vichy
map; or on Michelin map

LACHAUX, Puy-de-Dome, France.

p 114 B1

Min. u. de H-K: Parsonsite, with torbernite.

Rophin, nr. Lachaux: Torbernite, with parsonsite.

Bigay, nr. Lachaux: Uranophane, with opal;
Kasolite, with torbernite; lanthinite, with
potch blende & pyrite.

Bigay, (and?) Gourniaud, nr. Lachaux. Renardite
with torbernite, sometimes $\psi \rightarrow$ renardite.

Min. Res. Co. Cat. (Mar-Apr 1983): GOURNIAUD: Uranophane

ETANG DE RELIEZ: - Parsonsite (~ 2" mass of
parsonsite w. v. little matrix!!)

MONT DORE, Puy-de-Dôme, France.

DH spec → RSWB (RSWB 73-119).

Haematite, hexag platy, on
haematized breccia. A bit
like W. Cumb. specular.

OLLOIX, Saint-Amant-Tallende, Puy-de-D., France
113 D2

Mindat photo (7/3/11) Baryte, fine platy
x/s, clear pale yellow, in clusters.
x/s to > 1 cm. coll. Zool. from LIAUZUN,
OLLOIX, P-de-D.

PONTGIBAUD, Puy-de-Dôme, France.

Map p 112 C2

D, II 652 Vauquelinite "twinned xls supposedly from P."
893 Pyromorphite, mimetite

D6 1043 Anatase, at Pranal, nr Pontgibaud, P-de-D.
D6 App I, 11 Bournonite xls
15 Crussite "Pacaudière, Loire, & Rouse,
(Pontgibaud), France"

Puy de la Tache, Puy de Dôme, France.

Ec. des Mines (1963). Haematite

Puy DE TUNISSET, Puy-de-D., France.

Tim's Fr. Mag. (6/10). Haem ψ -magnetite
large octah.

Puy DE MARMAN, Puy de Dôme, France.

Miers (1929) Natrolite beautiful white xls
"formerly" in cavities of a compact basalt,
with calcite, aragonite & analcite. The xls
are much larger than at most other locs.

SAINT-BABEL, Issoire, Puy-de-Dôme, France

113 E3

Mindat photo (7/3/11). Baryte, fine clear
pale yellow chisel-shaped single xl,
just like RSWB 93-3; from
Four-la-Brouque ravine, St-Babel, P-de-D.

"PYRENEES"

1515202

PYREN.-ATLANT.
=BASSES PYRÉNÉES

"Pyrenees" France: ^{W→E} BASSES PYR. (PYR. ATLANTIQUE)
HAUTES PYR;
HAUTE GARONNE
ARIÈGE
PYR. ORIENT.

MA 71-3284 Talc deposits

MA 71-2318 Monazite

MA 69-633 Aran e Santein valleys.

Central Pyr. Silicate - ore
associations.

MA 19 315 ASTON. Zircons

19-303 ASTON- HOSPITALET. Zircons
in gneisses. In granite at

AIX-LES-THERMES.

PTU

~~BALNOON MINE, St Agnes, Cornwall~~
~~See POWDERRO M.~~

MA69-3077 Li pegmatites "Pyrenees"

LABOURD MASSIF, Pyrénées-Atlantiques, Fr.

MA 74-3407 Minute subtle needles
in pegmatitic quartz

PYREN.-ORIENT

SERRE DE MONTNER, Pyr-Orient, France.

MA 69-3530

Magnesite-brucite-ankerite
deposit

BATÈRE, Pyrénées-Orient. France

MA 73-2494 Siderite deposits

RHÔNE

nr. Beaujeu.

ARDILLAT\$, Rhône, France.

See also CHENELETTE, NUSSIÈRE, MONSOL

Mich Atlas p101, 102 A3

D₇ II 863. Libethenite.

Drian, "Min. et Pet. de Lyon" (1849)
Jonnard "Min Rhône et Loire (1906)

Ardillat, nr Beaujeu - cerussite

BEAUJOLAIS area of France Rhone

u BEUJEU area

Mich. Atlas p 101, 102 (A3)

MA 10 117 25 rare species recently coll. on

dumps of the several aband. Pb, Cu, Zn mines,
including: auri, bayld, pseudomal, limar,
caled, pyro (= missouriite), mimet, libeth,
Pb-gummite, hitchcockite, wulfen, ceruss, "etc"
[Béhier & Villeneuve, Bull SFMin (1943) 66 25-48 (6 figs)]

CHENELETTE, Rhône, France.

See also ARDILLAT, MONSOL, MONTCHONAY, NUISSIÈRE.

Mich Atlas p 101, 102A3

Gonnard "Min. Rhône et Loire" (1906). Cerussite, at LaDOUZE;
at LONGEFAY nr Chenelette, with malachite &
chrysocolla; at CHENELETTE with pyromorphite.
Wulfenite near Chenelette at LaDOUZE &
at PROPIÈRES (with dréelite) - small octahedra,
& tablets, orange-red; with green pyromorphite,
black and white cerussite, plumbogummite,
dréelite, & cadmiferous blende.

CHESSY nr. Lyons, Rhône, France (I)

See also SAIN-BEL.

Miers (1929). Cupsite, large octahedra & dodecs completely altered on the surface to a smooth green crust of malachite. These occur as isolated xls embedded in a soft white clay (lithomarge).

Azurite, fine xls, from the copper mines also in spherical concretions.

MA (1923-5) 286. ^{C. Perrier} Anal of malachite xls show 0.45% Zn, "cf rosasite"

MA 3 359. Azurite, xlog.

D₇ II 254

D₇ II 250

Malachite

aurichalcite

Lacroix (1901) Index. Allophane, arsenolite, aurichalcite,
autunite, barite, blende, calcite, chalcantite,
chalcopysite, azurite, chrysocolla, covellite,
copper, cuprite, galena, goslarite, gypsum,
halloysite, hydrocuprite, idocrase, magnetite,
malachite, melanconite, melanite, melanterite,
molybdenite, opal, pisanite, pyrite,
quartz, sel gemme [?], sulphur, smithsonite.

Pawłowski (1919) p30 Chessy long abandoned; but Sain-Bel mine
 (?) working.

Drian (1849) "Ancient & celebrated mines of Chessy & Sain-Bel"
 Chessy: Native copper. Cuprite: cubes rarely; cubo-
 octahedra; octahedra "very abundant". black oxide of Fe

CHESSY nr. Lyons, Rhône, France (II)

Azurite; malachite; beaumontite [Hey: var. of chrysocolla];
chalcantinite efflorescences; (Covellite at Pont-la-
Terrasse, with chalcopysite).

Gonnard (1906). Chessy: chrysocolla; smithsonite;
aurichalcite var buratite in cavities of smithsonite;
malachite; azurite; molybdenite in quartz in
big pyrite vein; covellite; chalcopysite;
cuprite "abundant".

BM: Chalcantinite

IRIGNY, Lyon.

Rhône, France.

Mich Atl. p 116 A2

Gonnard "Min. Rhône et Loire" (1906). Apatite in
pegmatite of SAINTE-FOY, Lyon, at LA CARRIERE DU
DIABLE, at IRIGNY, — sur les bords mêmes du Rhône,
rive droite, à environ 10 mins de la station, en
descendant le fleuve — lots of apatite xls of a
"beau" green, 15-20 mm, with black tourmaline.

MONSOL MINE, nr Beaujeu, Rhône, France.

See also NUISSIÈRE, ARDILLAT, CHENELETTE
Mich Atlas p 101, 102A3

Gonnard "Min. Rhône et Loire" (1906). Rurichalcite, var
"buratite", with chalcotrichite; native copper;
quartz; chrysocolla; pyromorphite; galena;
chalcocynite & tetrahedrite. Wavellite.
Wulfenite "le plus abondant".

MONTCHONAY ?Chenelette, Rhône France.

See also CHENELETTE etc.

Gonnard (1906). Cerussite.

D₇ II, 832. Plumbogummite

nr Beaujeu
NUISSIÈRE MINE, Chenelette, Dept. Rhône, France

See also ~~MUSSETTE~~ CHENELETTE, ARDILLAT, MONSOL
Mich Atlas p 101, 102A3

D, II, 631 Caledonite.

832 "Nussière", nr Beaujeu" Plumbogummite, with
pyromorphite, cerussite, anglesite, wulfenite
843 "Nussière, Rhône" Pyromorphite, incl. var. Nussierite
(Calcian. pyro).

Gonnard (1906) Pyromorphite; plumbogummite;
caledonite.

RSWB & TB6 (9/64) Quartz, baryte; fluorite;
galena, cerussite, pyromorphite (64-365)

from workings beside road bend S
of la Nuissière. Not a lot of material
exposed.

La PACAUDIÈRE, Mmede, nr Roanne, ? Lyons ? Rhône,

Mich. Atlas p 101, ~~MA~~ D3

Gonnard "Min Rhône et Loire" (1906)

Drian "Min. et Mét. de Lyon" (1849).

Chrysocolla, with

cerussite in quartz gangue; also native copper;
silver; cuprite; chalcotrichite; malachite;
cerussite; pyromorphite; galena; limonite.
Erubescite; native silver.

PONT-LA-TERRACE ? Lyons Rhône, France.

Drian (1849) "Min. et Pet. de Lyon". Covellite, with
chalcopyrite.

SAIN-BEL MINE, ? Lyons Rhône, France.

See also ~~Chessy~~ CHESSY.

Pawłowski (1919) Sain-Bel mine (? working-inferred), to NW & W of St. Pierre-la-Palud & "s'étendant vers Sourcieux":
copper & lead; sulphate of copper & of iron.

Drian (1849) "Ancient & celebrated mines of Chessy & Sain-Bel"
S-B: Native copper; malachite, radiating in fissures
of schists of the mine of Sourcieux at Sain-Bel;
chalcanthite efflorescences; grey arsenical copper,
with chalcoprynite & quartz. (Covellite with
chalcoprynite at Pont-la-Terrasse). Pyrrhotite "abundant"

Lacroix (1901) Index: Alumogen; blende; boothite;
chalcophyrite; copper; cuprogonite; ferrogonite;
epsomite; galena; graphite. gypsum; melanterite;
pisanite; pyrite; pyrrhotite; siderite; tennantite.

SOURCIEUX

Rhône, France.

See SAIN-BEL MINE

LA VELLIÈRE nr Beuieu, Rhône, France

Mich. Atlas p 101, 102 A3

RSWB & TBG (1964) Accord'g to natives, bigger mine than La Verrière & is at Grélet, just below road.

Examined - is at 6196 51147 - now a council roadside dump. Signs of flooded workings. No minerals exposed

LA VERRIÈRE nr Beuven, Rhône, France

Between les ARDILLATS & MONSOLS [qv].

Mich Atlas p101, 102 ~~AB~~

Cguillemin (1956) B.S.F. MetCr. 79 7-95

Tyrolite

RSWB & TBG (9/64) Near les Essards, is at

6178 51173. Fair sized whiteish dumps
just below road, "speckled with green &
yellow...." Quartz, fluorite, calcite,
platy baryte; galena, chalcoprynite,
chalcocite, ? bornite (TBG), "limonite",

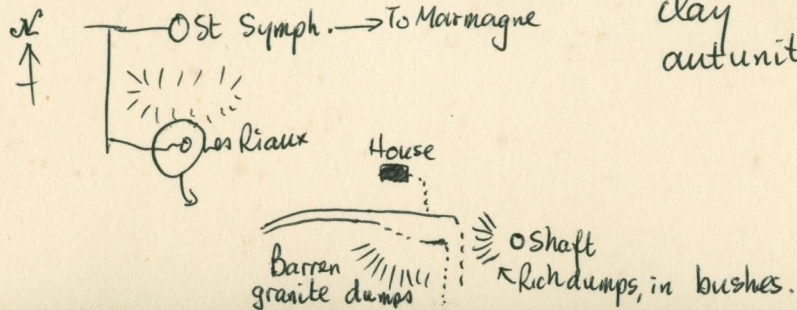
64-336.
good cerussite; trace anglesite; linarite;
pyromorphite ? mimetite, ? langite ^{(64-368) E} ~~(64-335)~~
? caledonite ⁽⁶⁴⁻³³⁴⁾; malachite; ? cornwallite or
pseudomalachite; ? oliv or like the nite;
excellent wulfenite, mostly yellow ⁽⁶⁴⁻³⁶⁷⁾
rectangular rods, & a few tablets; ⁻³⁴⁹
traces aurichalcite; pitch; chrysocola ⁻³⁵¹
? bayldonite (64-369); brochantite (64-368);
? duftite (64-353); nat sulphur in dec. galena
(64-335)
RSWB + Warrington club (1987). v.g. good carminite,
bayldonite, mimetite etc.

SAÔNE-ET-LOIRE

AUTUN, Saône-et-Loire, France.

D₇ II 986. Autunite, at Saint-Symphorien & other
locs. near Autun.

RSWB, TBG 9/64 Locs are behind St-Symphorien-de-
Marmagne, not the St. S. at Autun! Examined
dumps of trial at Les Riaux. Pink granite &
clay with much
autunite



BAUZOT, Issy-^{Saone et Loire}Levéque, France.

Mich Atlas p 87 D4

Min. U. de H-K: Uranophane, with autunite
epitch blonde

GRURY, Saône-et-Loire, France.

Min. U. de H-K: Les Brosses: Stages between
renardite e phosphouranylite.

La Faye: Kasolite.

La Faye e Les Brosses: Renardite,
parsonsite, kasolite, torbernite,
autunite.

BM. Les Brosses. Renardite

TBG: Les Brosses: Renardite.

La Faye: Kasolite, renardite, parsonsite,
torbernite autunite?

LUZY, Saône-et-Loire, France.

Mich. AH. p 87 D4

Les Oudots M. (sq Luzy).

Ba-autunite. [v. infra]

Min Research Co Cat. (Mar-Apr 1983)

Uranocircite, very fine (was
thought to be autunite). Les
Oudots M.

ROMANÈCHE, Saône et Loire, France.

MA 1 261 Arseniosidite.

Ec. des Mines (1963) 21 Excellent arseniosidite

SAINT-PRIX, Saône-et-Loire, France
16 km due W of Autun (on Autun map).

H. Sarp (1983): ARGENTOLLE M., nr. St-Prix:

Scotlandite, with macphersonite,
susannite, cerussite, galena,
pyromorphite, quartz.
Scot:- spheroidal $\rightarrow 0.5$ mm.

TARN

BOURNÉGUATTE M, Alban, Tarn, France

Mid. AH p154 B1

Bull S.M. (1956) LXI Goethite, isolated
crystals from fluorite loc. of
Bournéguate nr Alban, Tarn.

BURG MINE, Alban, Tarn, France

Mich Atlas p 154 B1

MA 72-217. 5 km SW of Alban.

Arsenopyrite, bismuthinite, pyrite,
chalcopyr in quartz, fluor. Sec y Bi etc?
minerals.

LAS COSTE MINE, Alban-la-Fraysse, Dept. Tarn, France.

Mid Atlas p 154 B1

D₇ II 800 Pseudomalachite

CASTELNAU-DE-BRASSAC, Tarn, France

154 C3 NE of Mazamet, E of Castres

Tin's French Magazine 6/10. At FUMADE

vg caoxenite, vg clless rad wavell,
strengite spherules, white $\rightarrow$ green varisc,
hamat, lep-croc, yellow benedant,
jamesonite w's, mottam, phemboquan,
vanad, matulaite, scorod, rock br,
vg pyromorph, stolzite (looks like
wulf).

ROSIÉRES, nr. Carmaux, Tarn, France.

D₇ II 924 "Rosièresite", hydrous Al phosphate with Pb etc.
- "needs verification", as a recent deposit in
abandoned workings of the copper mine at R.

VAR

Picot, Sainfeld, + Vernet, Bull. Soc. franç. Min.
Crist. 1963, 86, 299-300 = MA. 16, 540.
Découverte de germanite en France.

Germanite occurs in tennantite,
cont^g also inclusions of chalcoppr. +
galena, in dumps from Bancairon
gallery in upper valley of the Var
(Gorges de Daluis). Cu 46.5, Ge 9.4,
Fe 8.5, As 4.2, S 31.5 = 100.1.

In reflected light difficult to
distinguish from bornite

→ RS WB

Les ADRETS-DE-FREJUS, Var, France.

Lacroix (1901) Index: Fluorite

AGAY, Var, France.

Lacroix (1901) Index: Analcime; orthoclase;
quartz; andesite.

ALANCON, Var, France.

Lacroix (1901). Entre le quartier d'Alancon et
Ollioules. - Mercur.

AMPUS, Var, France.

Lacroix (1901). Bauxite

L'ARGENTIÈRE, nr Nyeres, Var, France.

Lacroix (1901) Mine de BORMETTES, at L'Argentière.

Blende; bournonite; calcite; chalcopryite;
galena.

AUPS, Var, France.

Lacroix (1901), Bauxite

BAUME DE COUTÉON, Var, France.

Lacroix (1901): Fluente

BORMETTES, Mine des, nr Hyères, Var, France.

See L'ARGENTIÈRE

CAP GARONNE, Hyères, Var, France. (I)

MA 12 571 C. Guillemin. Green botry. crust on ^{mine-}dumps ident.
as hidalgite with SO_3 partly replaced by MoO_3 .
Pb Al $(\text{AsO}_4)[(\text{S}, \text{Mo})\text{O}_4]$. [SO_3 3.4% MoO_3 3.5%].

MA 12 68 C. Guillemin. [Bull. Soc. ~~Min.~~ Franc. Min. Crist. (1952) vol 75,
pp 70-160, 16 pls.] Study of mins of Cu/Pb mine. A
detrital bed (evidently derived from mineral veins) between
Permian conglomerate and Triassic shale on Cape Garonne nr
Toulon was virtually worked out in 1862-1867 with small
intermittent working up to 1917. It contains some
primary mins (galena, chalcocite, blende, etc), but

mostly sec'y mins (arsenates, sulphates, etc...). Detailed descrip. of 40 species (24 new to loc.). Rarer mins include: carminite; dundasite; duftite; higginsite; mansfieldite; cyano-trichite; bendazitite; mottamite; zeunerite, etc. A hydrated arsenate of Cu & Pb, distinct from bayldonite & duftite is perhaps new. "Leucochalcite" is identified with olivenite.

MA 15 458 Y. Laurent & R. Pierrot. Cornubite, 2mm green globs, with azurite & olivenite

D, II 254 Malachite, in crevices in Keuper sandstone, with sec'y arsenates & phosphates....
543 Brochantite

CAP GARONNE, Hyères, Var, France (II)

D₂ II 579 Cyanotrichite as coatings on sandst.
assoc. with azurite, tyrolite, adamite,
brochantite, olivinite.

866. Adamite, cobaltoadamite & cuproadamite,
encrusting sandstone. (Violet to rose) (Bright green)

924 A mineral "perhaps similar to Liskeardite"
as fibrolamellar aggs of ? monoclinic xls at C.G.

926 Tyrolite

994 Metazeunerite, $\text{Cu}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$, with
chalcophyllite, olivinite, & pharmacosiderite.

1010 chalcophyllite

6 847-8 Pharmacosiderite " at St. Leonard e Garonne, Var..."
(? = St Leonard, Haute-Vienne - see PUY-LES-VIGNES)

D6 App II 64 Mineral similar to Liskeardite

Pawłowski (1919)^{p31} (? worked 1911) Abandoned 1917. ^{At Carqueiranna} Exploited by Romans, then English. Horizontal bed between Permian & Trias; at base a bed of Kaolin. Ore a Conglomerate of quartz, cemented with malachite, azurite, & chalcocite. To E, Pb dominates, to W, Cu. Galena xls with barites occur.

Lacroix (1901), Index: "Cap Garonne": Chalcopyrite; chalcocite; azurite; malachite; tetrahedrite.

"Mine de la Garonne": Adamite; barite; brochantite; chalcophyllite; cuproadamite; cobaltoadamite; cyanotrichite; liskeardite; melanconite;

CAP GARONNE, Nyères, Var, France. (III).

mimetite; olivenite; pharmacosiderite;
pseudomalachite; tyrolite; zeunerite

BM: Cyanotrichite, with chalcophyllite & pseudomalachite;
olivenite; cobaltoadamite - all encrusting
sandstone in a flat layer.

RSWB Cornwallite (BM x-ray)

MA 81-1857 Samp et al Parnauite

MA 88M/4345 RSWB 90-47 Perrouditite, new
mineral $\text{Hg}_5\text{Ag}_4\text{S}_5(\text{Cl, I, Br})_4$ orth, orange-red

micro-needles in sandst. impreg. w.
sec'y Cu minerals.

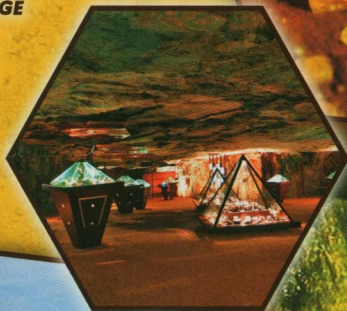
MINE DE CAP GARONNE

THE MINE OF CAP GARONNE

AU PRADET

**DÉCOUVREZ
L'ENDROIT MAGIQUE
OÙ BAT LE CŒUR
DE LA TERRE,
SA LÉGENDE PROVENÇALE,
SES MINÉRAUX,
SON PATRIMOINE REMARQUABLE
ET SES BALADES "NATURE".**

*DISCOVER A MAGICAL PLACE
THAT IS HOME
TO THE LEGEND OF PROVENCE.
DISCOVER ITS MINERALS
AND ITS REMARKABLE HERITAGE
RIGHT AT THE CENTRE
OF THE EARTH.*

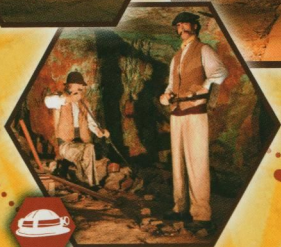
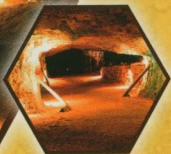
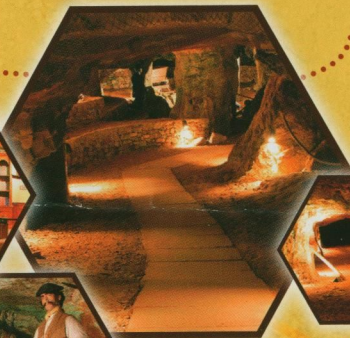
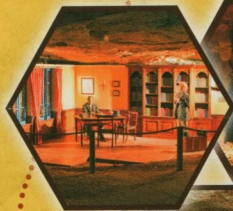
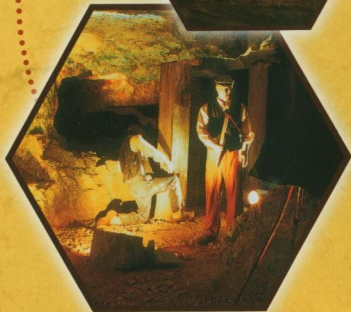
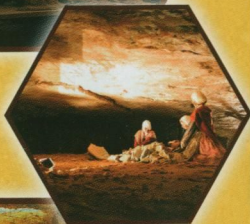
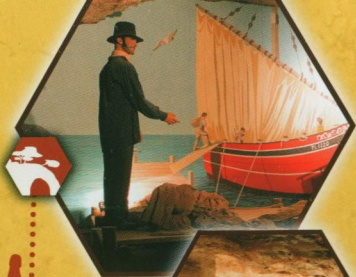


LE PRADET - VAR

Mettez votre casque et pénétrez dans les entrailles de la terre, dans les galeries des anciennes mines de cuivre.

Les documents d'époque, les scènes d'autrefois reconstituées avec les automates et les bruitages, vous accompagnent de façon ludique et captivante pour revivre l'histoire des mineurs du XIX^e siècle et découvrir les mystères de la roche !

Put your hard hat on and enter the entrails of the earth, into the galleries of the old copper mines. Old documents, scenes reconstituted with automats and sound effects take you in an entertaining and captivating way to share the life of 19th century miners and discover the mysteries of the rock.



L'originalité du musée est sans aucun doute le caractère vivant de sa visite où l'on peut ressentir la vie sous terre telle que la connaissaient les mineurs autrefois.

The originality of the museum is with no doubt the living character of its visit and the discovery of begone tasks and traditions.

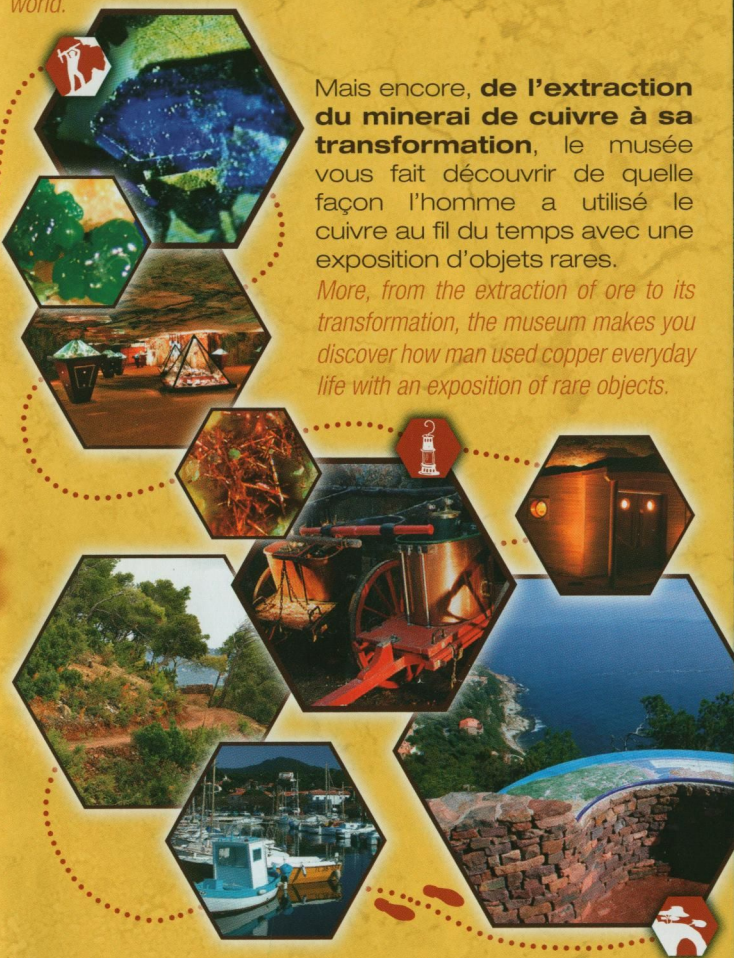
Sa plus grande richesse tient à sa collection de plus de 600 minéraux et de ses 140 microminéraux, dont 14 découverts à Cap Garonne.

La diversité et l'intérêt scientifique des cristaux recensés y attirent depuis très longtemps des chercheurs venus du monde entier.

Its collection of more than 600 minerals and 14 micro minerals of Cap Garonne is unique. The diversity and the scientific interest of the crystals listed there since a very long time attract researchers from all over the world.

Mais encore, **de l'extraction du minerai de cuivre à sa transformation**, le musée vous fait découvrir de quelle façon l'homme a utilisé le cuivre au fil du temps avec une exposition d'objets rares.

More, from the extraction of ore to its transformation, the museum makes you discover how man used copper everyday life with an exposition of rare objects.



Mais c'est aussi, un environnement remarquable, une vue panoramique sur la rade de Toulon, les terrasses à fleurs de Carqueiranne, la presqu'île de Giens, ses sentiers de randonnées et de découvertes, et à proximité un petit port de pêche, des domaines viticoles et oléicole, des plages, des criques protégées ...

It is a awe-inspiring environment with its panoramic views overlooking Toulon harbour, Carqueirane's flower fields, a nearby fishing harbour, vineyards, beaches and coves...

HORAIRES D'OUVERTURE ET TARIFS

OPENING SCHEDULES AND PRICES

Le musée est ouvert toute l'année
les mercredis, samedis, dimanches, jours fériés et vacances scolaires
(toutes zones) de 14h à 17h* (Juillet / Août 14h-18h).

Tous les jours de l'année sur réservation

*The museum is open all year round upon reservation and on the following days:
Wednesdays, Saturdays, Sundays public holidays and school holidays from 14:00 to 17:00.
In July and August opening times are from 14:00 to 18:00*

INDIVIDUELS / INDIVIDUALS

- Adultes : **6,50 €** / Adults : 6,50 €
- Enfants de 6 à 18 ans : **4,00 €** / Children from 6 to 18 years : 4,00 €
- Moins de 6 ans : **gratuit** / Less than 6 years : free
- Etudiants, demandeurs d'emploi, handicapés : **4,00 €**
Students, unemployed, people with reduced mobility : 4,00 €

GROUPES / GROUPS

Tous les jours* sur réservation au 04 94 08 32 46

Every day, call to book : 04 94 08 32 46*

Adultes / Adults : **5,70 €**

Enfants / Children : **3,20 €**

* Fermeture 24, 25, 31 Décembre et tout le mois de Janvier après les vacances scolaires
The museum is closed on the following dates: December 24th, 25th, 31st and January

Les visites sont guidées et durent environ 1h15

The visits are guided and last approximately an 1h15

Le musée est accessible aux personnes à mobilité réduite accompagnées

The museum is accessible to people with reduced mobility

La température intérieure est de 14 à 15 °C, pensez à vous couvrir
The inside temperature ranges from 14 to 15 °C, take warm clothes with you if needed

La boutique du musée vous propose ses minéraux bruts
et ses bijoux en pierres naturelles

The museum shop offers a wide variety of rough minerals and natural stone jewels

Traduction de la visite guidée disponible en plusieurs langues

The guided tour is translated into several languages

Tous les derniers samedi du mois,
visite minéralogique à 9h30 (sur réservation)



MUSÉE DE LA MINE DE CAP GARONNE

1000, chemin du Baou Rouge - 83220 LE PRADET (VAR)

Tél. 04 94 08 32 46 - Fax 04 94 08 72 50 - Mèl : info@mine-capgaronne.fr

WWW.MINE-CAPGARONNE.FR

Les CAMPEAUX,

Var, France,

[cf CHAMPEAUX]

Lacroix (1901). Nr. la route d'Hyeres à St. Tropez.

rutile; stannolite.

CHAMPEAUX, Var.

[cf les CAMPEAUX].

Lacroix (1901) Tourmaline.

COLLOBRIÈRES, Var, France.

Lacroix (1901). Almandine; apatite; fayalite;
grüneite; haematite; hornblende;
magnetite; melanite; siderite;
tourmaline.

"Collobrières (éminences entre) et l'anc. abbaye
de la Verne, Var" - staurolite.

FENOUILLET, nr Hyeres, Var.

Lacroix (1901). Chloritoid; staurolite.

FIGANIERES, Var, France.

Lacroix (1901). Anatase; brookite.

OLHIOULES, Var, France.

See ALANCON.

SAINT-MANDRIER, nr Toulon, Var, France.

Lacroix (1901) Index: Banyte

Mine de VIDAUBAN, Var, France.

Lacroix (1901). Chalcopyrite; tetrahedrite.

VANCLUSE

nr Avignon

MAZAN, Vaucluse, ^(nr Avignon) France.

Ec. des Mines (1963) Gypsum

VOSGES

STE. CROIX-AUX-MINES, Alsace, France.

Mich. Atlas p60 C2(x2) and D2 (ste. c-a-m)
MA 7 7 Stephanite.

THOLY, Vosges, France
p60 B3 mapbook

Bull Soc Fr
Me Cr (1970) At HAUT-POIROT:— Francevilleite

as yellow internal zone of antioles
of metatorbernite. Meta-autunite to
> 3 mm on granite in old trial Mn
gallery. Scheelite octahedra to
several mm ~~mm~~ in pyrolusite

CROIX-AUX-MINES, Vosges, France.

Mich Atlas p60 c3

D₂ II, 893. Pyromorphite

FRAMONT, Vosges, France

Mich. Atlas p. 60 C1

Miers (1929) Phenacite, in xls of considerable size.

D₇ II 1077 Scheelite

Ec des Mines (1963) 22. Phenacite

RESE
FRANCE

BERTHOLEINE,

France.

Min Res Co Cat (Mar-Apr 1983).

Francevillite nice drusy
micro-cls on schist.

BOUR~~G~~NEUF-LA-FORÊT,

France

[Manche-Brittany area]

Ixere Stanley, MM (1983) 545

Cinnabar, in Devonian shales

Brousseval, Ville-sur-Saulx, France.

D₆ App I, 14.

Celestine

Saulx R., Mc

{ Meuse
Haute Marne
Vosges
Meurthe-et-Moselle

LA CHAPELLE-SUR-ERDRE, Nantes
Michp64 B4

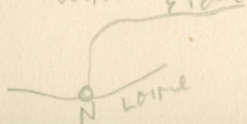
France.

D61028 Bertrandite, at La Mercerie, nr the bridge
of the Kerrière.

Erdre R; Ed

S of Rennes.

Joins Loire at
Nantes



(= Loire Atlantique
Loire-Inférieure)

or Maine et Loire.

LU BILHAC, Auvergne, France.
Mich. Atlas ^{sample?} p 127 El-de-Dôme?

BM. Superb stibnite.

ROZIER

France.

D₇ II 892

Cam pylite.

?

1

VILLEVIELLE

France.

D₇ II⁸⁹². Campylite.

?