

Bogotá, 3rd. June, 1938.

CIRCULAR Nº 3

Re: COLLECTION OF SAMPLES FOR LABORATORY EXAMINATION

For the needs of our organisation in Colombia samples may be classified as follows:-

- Group A. - Material for type collections
Group B. - Material for palaeontological examination
Group C. - Material for petrological examination.

GROUP A. - This group serves for orientation purposes at head office. Hand specimens of typical representative rocks (sedimentary, metamorphic, igneous, oilsands, etc.) from the various formations and their subdivisions are thus collected and retained for reference when discussing stratigraphical and petrographical problems affecting certain districts as also for regional comparisons. It should be understood that there is only a rather limited space available for a collection of this type. Field geologists are requested to keep this in mind as also the fact that samples should not exceed in size more than 9 cm x 7 cm (4 x 3 inches). - Group A is also useful for junior staff members when introducing themselves into the geology of their assignments at head office before leaving for the field. Referring especially to stratigraphic conditions in Colombia facies developments of the Tertiary, Cretaceous and pre-Cretaceous series are considered of special interest to be kept on record by such a collection. - In this connection it is permissible to exceed the above size in such cases where specimens can be secured showing special valuable characteristics of facies changes, contact and overlap conditions, etc.

GROUP B. - MATERIAL FOR PALAEONTOLOGICAL EXAMINATION.

Material for palaeozoological examination.

This group may be subdivided further into

- a) washable material to be examined under the microscope after washing
b) unwashable or hard material which can only be examined microscopically by means of thin sections.

Unfossiliferous material such as all igneous rocks, most metamorphic rocks and many sandstones, is of no palaeontological interest. In general a handlens will show whether the material is fossiliferous or not, and in any case of doubt a sample should be taken.

B - 1) Material with macrofossils. - It is well to bear in mind that when material is sent to group specialists for identification, it is desirable to keep duplicate specimens in Bogotá in order to build up a type collection there of macrofossils for purposes of immediate tentative identification. In order that this may be possible it is recommended to collect a reasonable series of duplicate macrofossils wherever possible. In the case of limestones or calcareous sandstones the best macrofossils occur on weathered faces, but chips of fresh rock are preferable for sectioning. - Group B-1 may also include material with microfossils and in the case of marls, clays or other washable material a separate sample should be taken for purposes of washing.

B - 2) Material for microfossils. - A large bag should be filled with the freshest (least weathered) material available, taken from various levels and preference being given to more marly bands. In certain facies larger foraminifera may occur in sandier seams, and this should be looked for in the field. In general sandy beds contain few or no foraminifera. In the case of unwashable material in this group the

best method of collecting is to secure numerous fresh chips for sectioning and weathered surfaces should be examined for larger foraminifera.

Material for palaeobotanical examination.

This group may be subdivided further into

B - 3) Plants, leaves, stems, fossils etc. for macroscopic examination.
B - 4) Peats, coals (Humuliths), foliae, spores, etc. for chemical treatment (maceration) and subsequent microscopic examination. According to studies made on palaeophytological material from Colombia additional valuable information can be obtained for our requirements. When collecting and packing material under B - 3) great care should be observed so as to avoid damaging well preserved specimens. Coating with shellac is recommended for protection against breakage during transport.

GROUP C. - MATERIAL FOR PETROLOGICAL EXAMINATION.

Group C may also be subdivided further into

- a) washable material to be examined under the microscope after washing for palaeontological and/or petrological research.
- b) unwashable or hard material which can only be examined microscopically by means of thin sections.

For the purpose of examination a special set of samples is needed in addition to those required under B. (See also Circular No 1 to Field Geologists re. sample collection, dated April 22nd, 1938). Further detailed instructions on Group C may be issued later.

LABELLING OF SAMPLES, LOCATIONS, LISTS ETC. - We are endeavouring to print standard labels for the type collection and standard lists which will be distributed to the field staff in blocks for exclusive use when making collections. We herewith also quote and amplify our circular No 2 dated May 20th, 1938.

"In connection with the arrangement and preliminary examination of the collections of samples at present awaiting study it will greatly facilitate the work if field geologists can supply detailed lists of their collections, observing thereby the divisions given above under A, B-1,2,3,4 and C. Such lists, to be of greatest use, should consist of the number of the sample, the approximate locality and the supposed horizon.

"It is intended to keep on file lists of all samples with the above information, under the heading of the separate geologists, and with the aid of the suggested lists this work can proceed much more rapidly than by working solely with the collections."

You are requested to be guided by the foregoing which we hope will materially assist in establishing better cooperation.

For COMPANIA DE PETROLEO SHELL DE COLOMBIA

Encl.

Sample of standard list

List of Staff showing letters (initials) for reference and use on standard labels and standard lists.

E. A. Rios

LISTS OF ABBREVIATIONS

for use on standard lists, labels and sample bags

<u>Geologists Name</u>	<u>Abbreviations</u>
Barker, R.W.	Bk.
Barrett, J.F.	Bt.
Bleser, P.	Bl.
Dietz, W.	D.
Fehr, W.R.	Fe.
Fichter, H.J.K.	Fi.
Gansser, A.	G.
Hess, P.	He.
Holdredge, C.P.	Hd.
Hubach, H.	Hu.
Liechti, P.	Li.
Long, H.K.	Lo.
Martin, R.	M.
Morgan, D.E.	Mg.
Ochsner, A.	O.
Renz, O.	R.
Ritter, E.A.	Ri.
Trumpy, D.	T.
Valencia, R.	V.
Wheeler, R.B.	W.

Sample of Standard List

AREA:

<u>SAMPLE NO</u>	<u>LITHOLOGY</u>	<u>LOCALITY</u>	<u>PRESUMED HORIZON</u>
e.g. Mg 1	V Lst	Trib. Arroyo Bruno	Guasare
.....			
.....			
.....			
.....			

etc.

NOTE: The name of the area, region or district should be written by the geologist at the head of the sheet.

Bogotá, 23rd. June, 1938.

GEOLOGICAL DEPARTMENT

CIRCULAR Nº 6

STANDARDIZATION OF MAPS, LEGENDS, ABBREVIATIONS, ETC.

Recently geological field parties submitted a series of geological map sheets at scale 1:10,000, drawn on tracing paper. These were compiled in camp with the idea, presumably, of being sent abroad after completion by the Drafting Department.

Field geologists are not supposed to introduce, individually, standard maps and scales, legends, etc. for submission to our Home Offices. Although it is left to their own discretion to choose the most appropriate sizes and scales for the plotting of their field observations and to so prepare their original maps on millimeter paper, adhering to standard scales and sizes, legends, abbreviations, etc. for maps to be sent abroad must remain in line with the ruling laid down by the Management which in turn is guided by regulations from Home Offices.- In a worldwide organisation like the Shell Group uniformity and standardization in this respect is of great importance and no deviation from existing regulations can be permitted.- Consequently the geological map sheets above referred to can only be used locally and will have to be re-drawn at Bogotá. We would draw your attention to the fact that elaborate tracings of this type, made in camp, always need considerable time, very often at the cost of field work, apart from requiring extra equipment, etc.

We are of opinion that your original maps are quite sufficient for our needs in Bogotá and that you should limit yourself to preparing and submitting original maps on millimeter paper, properly made out and sufficiently legible, using English for all inscriptions and texts.

When preparing originals, your cooperation is also invited on the following:

- a. Tie in your survey or surveys to existing Company reference points, such as polygons, boundary posts, triangulations, etc.
- b. If above not available tie in to the nearest Government reference point or points, such as churches, astronomical points, etc.

Information on a. and b. is always obtainable from the Drafting Department.

Abbreviations of local names should always be explained by giving the full names in the legend accompanying each map.-

Hubach.

STANDARD LIST

FOR SAMPLE COLLECTIONS

AREA: Upper Casanare, N-Boyacá.-Salina-Sacama-Degreero

SAMPLE NO	LITHOLOGY	LOCALITY	PRESUMED HORIZON
* Hu 301 S Lst		Rodrigoque, Casanare headwaters	?Altogiron; ?Fómeque
* Hu. 302 marly Sh.		Boyacá 1/2 km above Rodrigoque	" "
Hu. 303 S Lst		Q. Bautista, affluent of quebrada	Fómeque
Hu 4 S sh. Lst		Agua Blanca de Melusi; S of upp. Casanare	Fómeque
Hu 304 S sh. Lst.		id.	id.
* Hu 305 S Lst		id.	id.
Hu 306 anthracit. Sh.		id.	Base of Une
Hu 307 quartzite		id.	Une sst.
Hu 308 sh. mi. Sst		Quebrada Agua Blanca Tunebera	?Upp. Villota (-low. Gdps)
* Hu 309 S sh.		" " "	id.
Hu 310 sh. mi. Sst.		Q. Agua Blanca de Melusi	id.
Hu. 311 cgl. Sst		Q. Agua Blanca Tunebera, at bridge	id.
Hu 312 pyrit. sh. Sst.		Q. Colorada Sur	id.
* Hu 313 S Sst		Q. Abejas, affl. of Agua Blanca Tunebera	(Upp. Villota) - Lower
Hu 314 Sst. with suture		Q. Agua Blanca de Melusi	Guadalupe.
Hu 315 sh. mi. Sst.		Q. Abejas, affl. Agua Blanca Tunebera	?Upp. Villota (-low. Gdps)
Hu 316 s. Sh.		Cirilo Zone, S of Agua Blanca de Melusi	id, top Sh. member
Hu 317 s. platy, mi. Sh.		" " "	" " "
* Hu 318 S s. Sh		" " "	" " "
Hu 319 S oyster Lst.		" " "	" " "
* Hu 320 ?Trigonia Lst		Q. Abejas	" " " "
Hu 321 Sh. & Lst		Los Pailones, río Casanare	Abrupta Zone
Hu 322 Sugary Sst.		Trail Agua Blanca Melusi - Colorada	of upp. Guadalupe
Hu 323 Honey Sst.		" " " "	Upp. Guadalupe
Hu 324 Sug. Sst.		Buena Vista	id, below 322.
Hu 325 s. banded S sh.		Q. Colorada, E of Degreero	Upp. Guadalupe
Hu 326 crs. Sst		Cerro Degreero	id. = Paulino Sh.
Hu 327 Sh.		Chorríto Puertade San Francisco, E of Degreero	? id. (? Limbo Sst.)
Hu 328 lign. Sh.		Quebrada Colorada Sur, upp. course	Carbones.
Hu. 329 Quartz cgl.		" " "	? S. Pedro, ? Farallones
Hu 330 Augen Sh		Quebrada Bautista	Upp. Villota (low. Gdps)
			Fómeque.

NOTE: Use block letters and a clear handwriting when preparing list.

We shall soon receive additional copies of standard legends and if you are in need of a copy of these will you please advise the secretary of the Geological Department.

We would ask you to be guided by the foregoing in future.

For COMPANIA DE PETROLEO SHELL DE COLOMBIA

E. A. Rivas

FOR SAMPLE COLLECTIONS

AREA:

NOTE: Use block letters and a clear handwriting when preparing list.

STANDARD LIST

FOR SAMPLE COLLECTIONS

AREA:

SAMPLE
NO

LITHOLOGY

LOCALITY

PRESUMED HORIZON

This image shows a full page of dot grid paper. The paper has a light beige or cream-colored background. Overlaid on this background is a grid of small, evenly spaced purple dots. The dots are arranged in straight horizontal and vertical lines, creating a series of small squares across the entire page. There are no margins, text, or other markings on the paper.

NOTE: Use block letters and a clear handwriting when preparing list.

STANDARD LIST

FOR SAMPLE COLLECTIONS

AREA:

[illegible]

NOTE: Use block letters and a clear handwriting when preparing list.

STANDARD LIST

FOR SAMPLE COLLECTIONS

AREA:

[illegible]

NOTE: Use block letters and a clear handwriting when preparing list.

FOR SAMPLE COLLECTIONS

SAMPLE
NO

LITHOLOGY

LOCALITY

PRESUED HORIZON

NOTE: Use block letters and a clear handwriting when preparing list.

STANDARD LIST

FOR SAMPLE COLLECTIONS

AREA:

[illegible]

NOTE: Use block letters and a clear handwriting when preparing list.

FOR SAMPLE COLLECTIONS

SAMPLE
NO

LOCALITY

PRESERVED HORIZON

This image shows a full page of dot grid paper. The paper has a light beige or cream-colored background. Overlaid on this background is a grid of small, evenly spaced purple dots. The dots are arranged in straight horizontal and vertical lines, creating a series of small squares across the entire page. There are no margins, text, or other markings on the paper.

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STANDARD LIST

FOR SAMPLE COLLECTIONS

AREA:

SAMPLE
NO

LITHOLOGY

LOCALITY

PRESERVED HORIZON

NOTE: Use block letters and a clear handwriting when preparing list.

FOR SAMPLE COLLECTIONS

[illegible]

NOTE: Use block letters and a clear handwriting when preparing list.

STANDARD LIST

FOR SAMPLE COLLECTIONS

AREA:

[illegible]

NOTE: Use block letters and a clear handwriting when preparing list.

S T A N D A R D L I S T

FOR SAMPLE COLLECTIONS

AREA:

[illegible]

NOTE: Use block letters and a clear handwriting when preparing list.

STANDARD LIST

FOR SAMPLE COLLECTIONS

AREA:

[illegible]

NOTE: Use block letters and a clear handwriting when preparing list.