



Exploration & Production

GENERAL SPECIFICATION

GEOSCIENCES

GS EP GSR 002

Instructions for expedition of pressurised fluids

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Owner: EXPLO/TE

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1. Scope

The purpose of this general specification is to detail the conditions and information provided before, during, and after the transportation of pressurised fluid samples to the corporate Storage Location and / or to the storage of Services Companies.

This document applies to all E&P operational entities, Headquarters and Subsidiary companies alike, whenever a shipment of pressurised fluid sample is initiated.

Each E&P subsidiary company must use the hereafter instructions in addition to the existing and applicable laws, procedures, conventions as well as internal and local regulations.

Please refer to **GS EP GSR 003** for instructions in the expedition of gas (vacutainers or isotubes) or liquid (solvents, formation water, muds) samples of low pressure and low capacity (less than one liter).

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
Not applicable	

Professional Documents

Reference	Title
Not applicable	

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	



Other documents

Reference	Title
Not applicable	

Total General Specifications

Reference	Title
GS EP GSR 003	Instructions for expedition of fluid samples at atmospheric conditions and in small tank volumes.

3. Context

In the frame of this general specification, the definition of pressurised fluid samples refers to samples collected:

- at reservoir conditions
- at well head conditions
- at process separator level or at test separator level.

These samples (gas or oil PVT bottles) are sent either to TOTAL Centre Scientifique et Technique in PAU, France, or to a laboratory contracted by a Total entity for PVT analysis.

4. Requirements

4.1 General

The transportation of these types of samples presents the riskiest conditions.

In order to comply with this regulation and facilitate the management of the pressurised samples, the shipment of all fluids shall contain the following elements:

- 1- **Check on the compliance of the conditioning including the adequate labeling** of the products sent according to the risk level of the contains.
- 2- **Formal auditable communication** between the requesting entity, the shipment agency and the ultimate recipient as each and every stage of the trip:
 - a) As soon as the expedition is requested,
 - b) When dispatching has started,
 - c) Upon ultimate reception of the packages.

- 3- **Correct and complete address details** of the recipient

This full address shall be provided to the shipment agency and the samples shall be delivered exclusively to the named recipient and at the defined location.

4.2 Packing conditions

The instructions of labeling indicated in the present general specification are mentioned for reference only.



The persons in charge of sampling as well as the persons in charge of transportation shall expressly refer to the international regulations for the transport of the dangerous matters.

In addition to the lawful safety and security labelling, the supervisor of the "pressurised fluids" sampling shall attach to the bottles an information table containing the origin of the sample as per Appendix 2.

Note two key points:

- **presence of H₂S, of mercaptans, of traces of potential radioactivity or any dangerous compounds, other than hydrocarbons must be expressly mentioned .**
- The Material Safety Data Sheet (MSDS) of each fluid sample sent shall also be present in the packaging.

The person in charge of transport shall make sure that the types of conditioning dispatched are in conformity with the international regulation and the internal rules of Total:

- Ultimate date of certification of the pressure test: each bottle or container shall be systematically controlled before packing. No container with pressurised fluids shall be dispatched if the date of certification of the pressure test is superseded or reaches limitation within the next three months.
- Transport of the pressurised fluids shall be done within secured containers
- Sleeves of protection around the valves of PVT bottles or containers shall be present
- Valve door at exit of valves shall be present,
- The absence of hazardous substances related to procedures processing of the containers (Mercury for example) shall be certified.
- To ensure the presence of gas overhead in the bottle in order to handle fluid expansion for fluids sampled and stored in low temperature environment.

The forwarding of pressurized samples shall imply specific packaging, which shall not contain samples of another nature such as crude oil samples, or any other type of fluids.

4.3 Communication

The communication between the entity in charge of transport and the recipient of the goods who is also in charge of the fluid storage management shall take place in a formal way as soon as the process for expedition is initiated.

1- **The person or the entity in charge of transport** shall inform by "email" to the address above of the effective packing expedition:

- for In-house entities: EP-DEV-GIS-FGO FLUIDS-SAMPLES
- for external companies: ep-dev-gis-fgo.fluids-samples@total.com

and shall provide , attached to the email, with the package, and by separate post mail, a document comprising following information :

- The "pro-forma" invoice,
- The official shipping document (LTA for flight fret for instance),
- Safety labelling for each container or bottle of the shipment.



The documents here-above shall be joined to the packing in order to facilitate the contacts with the transportation intermediaries and with customs procedures.

2- **The person in charge of the packing reception** shall inform the entity or person in charge of the expedition upon reception of the packages and specify whether or not they comply with the instructions of this general specification as well as with international regulation on dangerous matters transport.

4.4 Destination Address

Any shipment of fluid samples from exploration wells, production wells and production tests shall carry the following address:

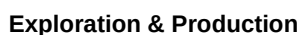
TOTAL S.A
MAGASIN
A l'attention du Laboratoire Fluides – PVT
CSTJF Avenue Larribau
64018 PAU Cedex
(FRANCE)

Appendix 1 International pictograms

Pictogram of danger of products for the transport (secondary or primary packaging) [Responsible : The person in charge of the expeditions]						
Pictogram of danger of products for the labelling (primary packaging) (a) [Responsible : The person in charge of the fluid or rock sampling on site]						
			Icons describing the level of risk of transported product			
Type of samples	Class	ONU Code	Inflammable	Toxic	Pressured Gas	Radioactive Matter
Reservoir gas containing H2S (*)	2.6	1964 / 3161 ^(b)	X	X	X ^(c)	
Reservoir liquid containing H2S (*)	3.6	1965	X	X		
Reservoir gas without H2S (*)	2	1964 / 3161 ^(b)	X	X	X ^(c)	
Reservoir liquid without H2S (*)	3	1965	X	X ^(c)		
Oil based mud or crude oil	3	1202 / 1267 ^(e)	X	X ^(c)		
Gas contained in Mud or cores						

(*) reservoir gas or liquids refer to pressurised fluids samples defined in paragraph §3.

(a) These labels correspond to the new GHS format (Globally Harmonised System) for the Classification and Labelling and information related to dangerous products or mixes. This format is effective since October 2008. (b) 3161 for condensate gas; (c) The "gas under pressure" label is not required for toxic and flammable gases for the transport; (d) The risk number 2 within pictogram (for gas) becomes 6 (for solid and liquid materials); (e) 1202 for gas-oil - 1267 for reservoir oil;



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Appendix 2

Appendix 2 Information table

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