



Exploration & Production

## GENERAL SPECIFICATION

### GEOINFORMATION

#### GS EP GIN 202

**Denomination of seismic surveys, leases, horizons,  
faults, and other components**

|      |         |                                                   |
|------|---------|---------------------------------------------------|
|      |         |                                                   |
|      |         |                                                   |
|      |         |                                                   |
|      |         |                                                   |
|      |         |                                                   |
| 00   | 01/2012 | Initial Version. Voids and Replaces GS EP SUG 202 |
| Rev. | Date    | Notes                                             |

Owner: EXPLO/IGEO

Managing entity: EXPLO/IGEO/DER



## Contents

|                                                   |          |
|---------------------------------------------------|----------|
| <b>1. Scope .....</b>                             | <b>3</b> |
| <b>2. Reference documents.....</b>                | <b>3</b> |
| <b>3. Schlumberger GeoFrame .....</b>             | <b>4</b> |
| 3.1 Leases and blocks .....                       | 4        |
| 3.2 Seismic surveys .....                         | 4        |
| 3.3 Horizons.....                                 | 5        |
| <b>4. Landmark Seisworks and Stratworks.....</b>  | <b>5</b> |
| 4.1 Leases and blocks .....                       | 5        |
| 4.2 Seismic blocks .....                          | 5        |
| 4.3 Horizons.....                                 | 6        |
| 4.4 Surfaces - Faults - Stratigraphic units ..... | 6        |



## 1. Scope

Workstations interpretation projects management imposes that conventions of denominations be implemented as far as possible.

Benefits include:

- Easier management of the project,
- Reduction of turnaround time till evaluation of prospect or reservoir,
- Accessibility of information for all the users and all the applications,
- Optimization of the disk space and not duplication of the data,
- Minimization of loading time and thus of workstation downtime.

This document specifies mandatory denominations of seismic surveys, leases, horizons, faults, and other components to be applied when using all software interpretation workstations.

## 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 GIN 121 | Seismic Data Identifier, Naming conventions for topographic and navigation data files |

### 3. Schlumberger GeoFrame

The software employed is Schlumberger GeoFrame version 4.04 or later.

WARNING: some modules of this package impose names of maximum 16 characters.

#### 3.1 Leases and blocks

The cultural data are gathered by **code country**, then by **year**, then by **lease name**.

They use the same conventions as the fields to which they refer.

Example:

AO\_02\_BLOCK\_XXXX

- The first **2 characters** must indicate the **country code**
- The **3rd** character an **indent** \_
- The **4th and 5th** characters indicate the **year**
- The **6th** character an **indent** \_
- From the **7th to the 16th** character ( thus no more than 10 characters): **local name**

In the Remarks field, one will indicate:

- The source of the information
- The last validation date of the source
- The date when data was loaded in GeoFrame
- The name of the Data Loader

#### 3.2 Seismic surveys

The seismic data will be named by code country, then by name as defined in file header, line C2, then by year.

XX\_NAME\_YY\_ZZZ\_P

- The first **2 characters** must indicate the **country code**
- The **3rd** character an **indent** \_
- The following characters indicate the **survey name** as indicated by owner and transferred onto file header by processing contractor (line C2 in SEG Y format)
- The next character an **indent** \_
- Following 2 characters: **year processed**
- The next character an **indent** \_
- 3 letter description of the **type of seismic data** (MIG, STK, etc)
- 1 character for the increment in generating the **versions**.

Example:

NI\_MOHO\_02\_MIG\_1

In the Remarks field, one will indicate **all information from the list above that could not fit in the full name**:

- the resolution (08, 16, 32 bits)
- the datum of reference
- The source of the information
- The last validation date of the source
- The date when data was loaded in GeoFrame
- The name of the Data Loader
- The Unique Seismic Identifier as defined in **GS EP GIN 121**

Blank characters are not allowed here because these are UNIX files names.

### 3.3 Horizons

Horizon names must follow the format:

**XXXXyyySUFF**

where:

- XXXX is the name of the **horizon** and should be explicit,
- yyy represents the **initials** of the interpreter,
- Suffix SUFF is optional. One advises to use:
  - TEMP to indicate that this horizon will be destroyed in the short run,
  - TOTxx where xx indicates the year when the horizon is finalized and ready to file.

## 4. Landmark Seisworks and Stratworks

### 4.1 Leases and blocks

This information being extracted from the same reference data bases as in the GeoFrame case, the same rules applies.

One will thus refer to paragraph 3.1.

### 4.2 Seismic blocks

The name of any seismic block (2D or 3D) created will include:

- **3 characters** describing the version or **type of seismic data** (MIG, STK, etc.),
- **2 characters** specifying the **resolution** (08, 16, 32 bits),
- **4 characters** relating to the **datum** of reference,
- **1 character** for the increment in generating the versions.

Blank characters are not allowed here because these are UNIX files names.

The maximum number of characters is **60** for a **2D** block and **50** for a **3D** block.

In the *Remarks* field, one will indicate:

- The resolution (08, 16, 32 bits),
- The datum of reference,
- The source of the information,
- The last validation date of the source,
- The date when data was loaded in GeoFrame,
- The name of the Data Loader,
- The Unique Seismic Identifier as defined in **GS EP GIN 121**.



### 4.3 Horizons

Horizon names can use up to **60 characters**.

For better identification, one will compose them of:

- **3 characters** symbolizing the **name of the interpreter**, to be put in first and using capitals,
- The **onset** or part of the trace picked (maximum, passage to zero or minimum),
- The name of the **geological surface**,
- In case of extraction of attributes: **7 characters** to describe the extracted **attribute** (prefix).

It is possible to use blanks in this line of characters.

The automatically recorded attributes will take into account the colour and the "onset" of the trace.

### 4.4 Surfaces - Faults - Stratigraphic units

By surface, one includes:

- **Faults**,
- **Surfaces** or grids,
- **Stratigraphic units**.

Surfaces names can use up to **50 characters**.

These items of the study data base are described through the following attributes:

- *Geoname*,
- *Map Data set name*,
- *Standard Grid and*
- *Geotype*.

The GeoName and Geotype attributes are being automatically defined at the time of the creation of the object.

The interpreter will therefore focus on choosing explicit names for:

- **Map Dated set Name**: for example *thickness* when dealing with isopacs
- **GridName**: description of the surface: maximum **50 characters**.  
In case of the extraction of attributes: **7 characters** will describe the attribute extracted (prefix)

#### **NOTE:**

It may be useful to **begin** the name of the **faults** by the **3 initials of the interpreter** who generated them, in capital letters.

One may use blanks in this line of characters.