



DISKOS Seismic Module

Diskos MetaData Form Guide

Version 5.6

CONTENTS

1	Introduction.....	3
2	How the DSDF Form is built up.....	3
3	General Comments and recommendation.....	4
3.1	Navigation.....	4
3.2	Seismic Data	5
3.2.1	EBCDIC Header.....	5
3.2.2	Binary Header	5
3.2.3	Trace Header	5
4	Meta Data Comments	6
4.1	Meta Data for Survey Tab.....	6
4.1.1	Survey Type	6
4.1.2	Survey Kind	6
4.1.3	Other.....	6
4.2	Meta Data for Dataset / Document Tab.....	6
4.2.1	Project Type.....	6
4.2.2	Group Type /Dataset Type.....	7
4.2.3	Processing.....	8
4.2.4	Attribute	9
4.2.5	Offset	9
4.2.6	Wave mode.....	10
4.2.7	Time/Depth.....	10
4.2.8	Phase	10

1 **Introduction**

- This guide describes how “Diskos Metadata Delivery Form” (DMDF) should be filled out.
- Note that metadata described in this document may change or new added.

More information about guidelines/regulations for reporting of seismic data at [NPD website](#)

2 **How the DMDF is built up**

- The form is split up in tabs:
 - Front page (General information)
 - Survey (Only filled in if this is a new survey)
 - Datasets (All datasets in this shipment)
 - Navigation (Only filled in if this is new navigation)
 - Documents (All Documents which should be loaded)
 - Entitlements (Entitlements to be used)
 - Headers (Headers if applicable, not mandatory)
 - Meta Data (List of meta data to be used)
- Notes:
 - Not all the fields are mandatory to fill in. (but the more information we get, the faster the loading will be finished)
 - Mandatory fields are marked with a green colour.
 - When filling in “Dataset Name” you may fill in additional information after the survey name.
 - Examples:
 - NPD15001-ANG-5-15
 - NPD15001-NPD15002-DIFF
 - NPD15001-ABS-ACUSTIC
 - NPD15001-FAST-TRACK
 -
 - You can even fill in “long” names as before, like:
 - NPD15001-PSDM-RAW-U-FAR-ANGLE-STACK-TIME
 -
 - It is recommended to shorten the dataset name. The one above include TIME which is not necessary, since this is covered by the TIME/DEPTH field (see 1.2.8)

3 General Comments and recommendation

This chapter is not directly related to the DMDF form, but its important information that can make it easier to understand why the DMDF content is so important.

3.1 Navigation

In [NPD Yellow Book](#) Appendix B you will find information related to reporting of navigation data.

- Navigation data is required in Diskos for setting entitlement, make data visible on map and for download.
- The navigation data must be sorted in the same way as the seismic data. Example, if the seismic data is sorted in in-line/cross-line direction, the navigation needs to be sorted in-line/cross-line
- 3D binned navigation
 - This navigation should cover all in-line and cross-lines numbers in the dataset(s)
 - If you have several datasets and some are larger than others the navigation set should cover at least the largest one.
 - FYI, navigation can cover wider IL/XL ranges than the data, this is OK.
 - A good practise is to make a large “general” navigation set that covers all datasets in the shipment. This navigation set can also be used for other shipments that might come later. So If you are sending more data on the same grid you can refer to the navigation set already loaded in Diskos.
- 2D and 3D source navigation
 - Follow UKOOA/IOGP P1XX standard
 - You should check in advance if the navigation is already loaded in Diskos, if not, it needs to be included in the shipment.
- Special cases / missing navigation
 - Diskos Operation can generate navigation data based on coordinates in the seismic trace headers (all types) or from grid information (bin navigation only)

[NPD Yellow Book](#) describes requirement for information in the UKOOA/IOGP header. Here is a small summary/checklist:

Header	Survey name Survey (NPD) ID CRS Projection Grid definition (binned) Input surveys and ID's (merge)
File	Format Record identifier Line number/name Lat/Long X/Y Validation Output=Input

3.2 Seismic Data

In [NPD Yellow Book](#) Appendix A you will find information related to reporting of seismic trace data.

Reporting of Field Data (SEG-D):

Expected format: SEG-D 3.1

Accepted formats: SEG-D 3.0 and SEG-D 2.1

Media Type: IBM 3592 E07 4 TB

Reporting of Seismic Trace Data (SEG-Y):

Expected format: SEG-Y rev 1 (IEEE, blocked trace if media tape)

Accepted formats: SEG-Y rev 1 (Will accept SEG-Y rev 0 with SEG-Y rev 1 trace header locations defined)

Media Type: IBM 3592 E07 4 TB, USB 3 Portable disks, FTP

3.2.1 EBCDIC Header

NPD Yellow Book describe requirements for in the seismic headers

Checklist for EBCDIC Headers:

- Client Name (Data Owner/Operator)
- Survey Name and NPD Survey ID
- Line number (2D), Inline/Crossline ranges (3D BIN)
- Processing Company / Processing information
- CRS information
- Grid information (3D BIN data)
- Shot - CDP relation (2D)
- Trace header byte positions (if not standard SEG positions)
- Acquisition information (for PreStack)
- If merge: merge information (input Survey name and NPD Survey ID)

3.2.2 Binary Header

Checklist for binary header:

- Sample interval and number of samples
- Fixed trace length flag

3.2.3 Trace Header

Checklist for trace header:

- Trace sequence/Inline/Crossline (3D BIN)
- CDP and ShotID (Non binned data)
- FFID and ShotID (Shot gathers)
- Trace ID code
- Sample interval and number of samples

Trace Header Coordinates

4 Meta Data Comments

Meta Data for Survey Tab

Main source for Survey information is the [NPD Fact pages](#)

4.1.1 Survey Type

Survey Types with S1 table ID's used in Diskos. Source for survey information is [NPD Fact pages](#).

Survey Type	Comments
CONVENTIONAL (5.1)	
OBS (5.3)	
SITE SURVEY (5.2)	
GRAV-MAG (6.1)	
ELECTROMAGNETIC (7.1)	
ARTIFICIAL (5.4)	

4.1.2 Survey Kind

Survey Kind	Comments
NPD	Surveys acquired and owned by NPD
SCIENTIFIC	Surveys acquired according to the Act relating to scientific research
PETROLEUM	All other surveys

4.1.3 Other

Input Surveys: List of input survey names and NPDID's to a merge. Applicable for artificial surveys only

License: Source [NPD Fact pages](#). Survey license information. This is an exploration license and or a production license.

Wellbore Name, Prospect: Well/Prospect information for Site Surveys.

Meta Data for Dataset / Document Tab

4.2.1 Project Type

Project Type	Comment
ACQUISITION	Used for grouping acquisition data to a project
ORIGINAL PROCESSING*	This is for the first/initial processing
REPROCESSING*	Used for reprocessed seismic data
MERGE*	This is for merged datasets only.
OTHER	

*these are the most commonly used

4.2.2 Group Type /Dataset Type

Grupe Type	Comment
FIELD	
NAV	
OTHER	
POST STACK	
PRESTACK	
VELOCITY	

Dataset Type	Comment
MIG FIN	
MIG RAW	
MIG VEL	
STK FIN	
STK RAW	
STK VEL	
OTHER VEL	
OTHER	
PRESTACK	
FIELD	
ATTRIBUTE	
DEMULTIPLE	
ASCII VELOCITY	
NAV-MERGE	

Document Type	Comment
SEISMIC ACQUISITION	This group type is used for "Document" loading only.
SEISMIC GRAVIMETRIC	This group type is used for "Document" loading only.
SEISMIC NAVIGATION	This group type is used for "Document" loading only.
SEISMIC PROCESSING	This group type is used for "Document" loading only.
SEISMIC	

Document Subtype	Comment
SEISMIC_FIELDDATA	
SEISMIC_FIELDDATA_INF	
SEISMIC_ACQUISITION_REPORT	
SEISMIC_ACQUISITION_REPORT_INF	
SEISMIC_ACQUISITION_QC_REPORT	
SEISMIC_ACQUISITION_QC_REPORT_INF	
SEISMIC_OBSERVER_LOG	
SEISMIC_OBSERVER_LOG_INF	
SEISMIC_GRAVITY_REPORT	
SEISMIC_GRAVITY_REPORT_INF	

SEISMIC_INTERPRETATION_REPORT	
SEISMIC_INTERPRETATION_REPORT_INF	
SEISMIC_MERGE_REPORT	
SEISMIC_MERGE_REPORT_INF	
SEISMIC_NAVIGATION_REPORT	
SEISMIC_NAVIGATION_REPORT_INF	
SEISMIC_NAVIGATION_QC_REPORT	
SEISMIC_NAVIGATION_QC_REPORT_INF	
SEISMIC_NAVIGATION_SR	
SEISMIC_NAVIGATION_P2	
SEISMIC_NAVIGATION_SR_INF	
SEISMIC_NAVIGATION_P2_INF	
SEISMIC_PROCESSING_REPORT	
SEISMIC_PROCESSING_REPORT_INF	
SEISMIC_VELOCITY{ _STK } { _MIG }	
SEISMIC_VELOCITY{ _STK } { _MIG }_INF	
SEISMIC_VELOCITY_STK MIG_ETA	
SEISMIC_VELOCITY_STK MIG_ETA_INF	
SEISMIC_TOC_FILE_FID FLN TAP	
SEISMIC_TOC_FILE_FID FLN TAP_INF	
SEISMIC_GRAV-MAG	
SEISMIC_GRAV-MAG_INF	
SEISMIC_GRAVITY	
SEISMIC_GRAVITY_INF	

4.2.3 Processing

Processing	Comment
PSTM	
PSDM	
KIRCHOFF PSTM	Alternative to PSTM if you wish to add KIRCHOFF to the name.
KIRCHOFF PSDM	Alternative to PSDM if you wish to add KIRCHOFF to the name.
OBC	
OBC PSTM	
OBC PSDM	
APCBM	
CBM	
DEMULT	
PSTM RADON DEMULT	
PSDM RADON DEMULT	
PSTM DEMULT	
PSDM DEMULT	
SRME DEMULT	

FIELD	
NAVMERGE	
RTM PRESTM	
POSTSTACK-MIGRATION	
SRME DEMULT	

4.2.4 Attribute

Attribute	Comment
ACOUSTIC IMPEDANCE	
COHERENCY	
DELTA	
DENCITY	
DENSITY	
DIPX	
DIPY	
ELASTIC IMPEDANCE	
EPSILON	
ETA	
GRADIENT	
INTERCEPT	
INTERVAL	
OTHER	
OTHER ATTRIBUTE	
SEISMIC AMPLITUDE	
VELOCITY	
VELOCITY AMPLITUDE	
VERTICAL	
VPVS	

4.2.5 Offset

Offset	Comments
ANGLE	
ANGLE EXTREME FAR	
ANGLE FAR	
ANGLE FAR MID	
ANGLE FULL	
ANGLE MID	
ANGLE NEAR	
ANGLE NEAR MID	
ANGLE ULTRA FAR	
ANGLE ULTRA NEAR	
ANGLE ULTRA-ULTRAFAR	

OFFSET FAR	
OFFSET FAR MID	
OFFSET FULL	
OFFSET MID	
OFFSET NEAR	
OFFSET NEAR MID	
OFFSET ULTRA FAR	
OFFSET ULTRA NEAR	

4.2.6 Wave mode

Wave mode	Comment
PP	
PS	
OTHER	Don't fill in if you are unsure if the data is PP or PS

4.2.7 Time/Depth

Time/Depth	Comment
TIME	Data in time domain
DEPTH	Data in depth domain

4.2.8 Phase

Phase	Comment
ZERO	Seismic converted to ZERO phase
MINIMUM	

4.2.9 Other Metadata

License number(s): License number if data is processed by /belongs to a license

Wellbore Name, Prospect: Well/Prospect information for Site Surveys.

Data Description: Short (free text) description of data