

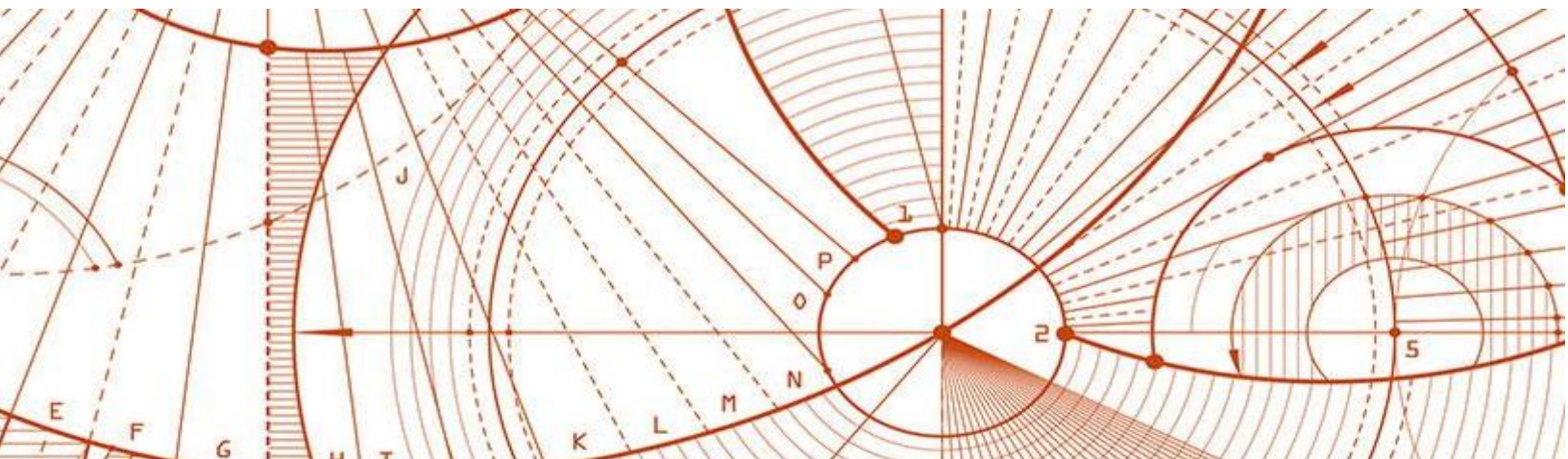


Diskos 2.0

Request for Proposal (RFP)

Seismic, Well and Production modules

Attachment 8:
Quality control seismic data



30.12.2019



Quality control seismic data

The Contractor should conduct the QC elements listed in the table below on all seismic data that is reported to Diskos 2.0.

#	QC element	Category
1	Visualize and inspect seismic sections to identify general quality issues	2D, 3D, Data visualization
2	Identify and highlight positioning errors	Consistency check of trace headers
3	Check P1 Header: CRS information	Consistency check of trace headers
4	Check P1 Header: EPSG code	Consistency check of trace headers
5	Check P1 Header: Shot point number	Consistency check of trace headers
6	Check P1 Header: Grid information (3D bin)	Consistency check of trace headers
7	Check P1 Header: Survey name and ID	Consistency check of trace headers
8	Check P1 Header: Line name	Consistency check of trace headers
9	Check SEG Y EBCDIC Header: CRS information	Consistency check of trace headers
10	Check SEG Y EBCDIC Header: Shot - CDP relation (2D)	Consistency check of trace headers
11	Check SEG Y EBCDIC Header: Grid information (3D bin)	Consistency check of trace headers
12	Check SEG Y EBCDIC Header: Survey name and ID	Consistency check of trace headers
13	Check SEG Y EBCDIC Header: Line name/number (2D)	Consistency check of trace headers
14	Check SEG Y EBCDIC Header: Client name (License Operator)	Consistency check of trace headers
15	Check SEG Y EBCDIC Header: Processing company	Consistency check of trace headers
16	Check SEG Y EBCDIC Header: Product name	Consistency check of trace headers

#	QC element	Category
17	Check SEGY EBCDIC Header: Inline/crossline ranges	Consistency check of trace headers
18	Check SEGY Trace Headers: Trace sequence, bytes 1-4	Consistency check of trace headers
19	Check SEGY Trace Headers: shotpoint (EP), bytes 17-20	Consistency check of trace headers
20	Check SEGY Trace Headers: CMP, bytes 21-24	Consistency check of trace headers
21	Check SEGY Trace Headers: Trace code, bytes 29-30	Consistency check of trace headers
22	Check SEGY Trace Headers: inline, bytes 189-192	Consistency check of trace headers
23	Check SEGY Trace Headers: crossline, bytes 193-196	Consistency check of trace headers
24	Check SEGY Trace Headers: X, bytes 181-184	Consistency check of trace headers
25	Check SEGY Trace Headers: Y, bytes 185-188	Consistency check of trace headers
26	Check SEGY Binary Header: Sample interval	Consistency check of trace headers
27	Check SEGY Binary Header: Number of samples	Consistency check of trace headers
28	Check SEGY Binary Header: Fixed trace length flag	Consistency check of trace headers
29	Seismic to Navigation Matching: 3D bin gathers, inline, crossline, X,Y	Seismic to navigation matching
30	Seismic to Navigation Matching: 2D post-stack, CMP, SP, X,Y	Seismic to navigation matching
31	Seismic to Navigation Matching: 3D post-stack, inline, crossline, X,Y	Seismic to navigation matching
32	Seismic to Navigation Matching: 2D CMP gathers, CMP, SP, X,Y	Seismic to navigation matching
33	Seismic to Navigation Matching: Prestack shots, SP, X,Y	Seismic to navigation matching
34	Seismic to Navigation Matching: Field shots, SP, X,Y	Seismic to navigation matching

#	QC element	Category
35	Check that the content of P1 headers are correct according to OGP P1 standard	Spatial QC
36	Check and compare (visually) X and Y coordinates from P190 with seismic outlines	Spatial QC
37	Check P1 formatting and data values (correct order and range, consistency, first and last inline, min and max latitude/longitude)	Spatial QC
38	Check that CRS information is available and correct in the P1 and EBCDIC headers	Spatial QC
39	Check that Latitude/Longitude and X/Y relationships is correct based on CRS info in P1 headers	Spatial QC
40	Check navigation range for field/navmerge/2D data (Shot points) and 3D data (Inline and crossline).	Spatial QC
41	Consistency check of distance and increment between Shot Points for 2D data	Spatial QC
42	Orthogonality check of 3D navigation bingrids	Spatial QC