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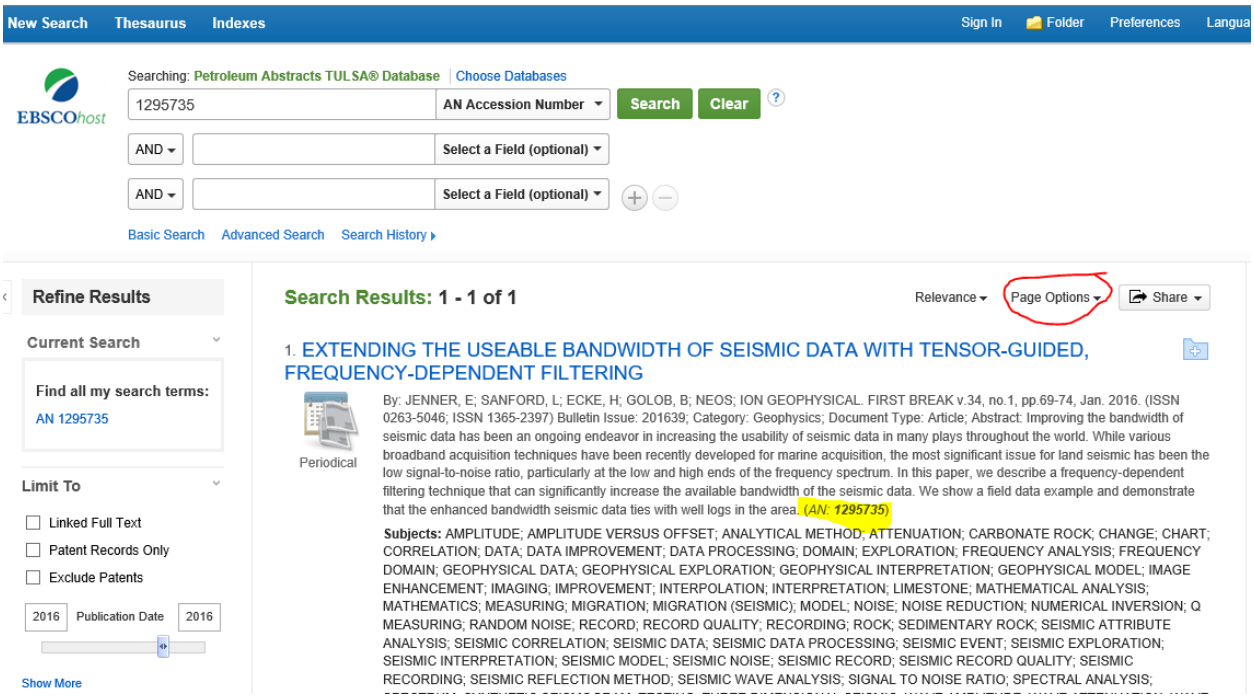

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EXTENDING THE USEABLE BANDWIDTH OF SEISMIC DATA WITH TENSOR-GUIDED, FREQUENCY-DEPENDENT FILTERING

Authors: JENNER, E; SANFORD, L; ECKE, H; GOLOB, B
Corporate Affiliation: NEOS; ION GEOPHYSICAL

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Abstract:	Improving the bandwidth of seismic data has been an ongoing endeavor in increasing the usability of seismic data in many plays throughout the world. While various broadband acquisition techniques have been recently developed for marine acquisition, the most significant issue for land seismic has been the low signal-to-noise ratio, particularly at the low and high ends of the frequency spectrum. In this paper, we describe a frequency-dependent filtering technique that can significantly increase the available bandwidth of the seismic data. We show a field data example and demonstrate that the enhanced bandwidth seismic data ties with well logs in the area.
Category:	Geophysics
Primary Heading:	OKLAHOMA
Major Headings:	NUMERICAL INVERSION; PENNSYLVANIA; SEISMIC DATA PROCESSING; SEISMIC INTERPRETATION; SEISMIC MODEL DATA PROCESSING; EASTERN US; GEOPHYSICAL INTERPRETATION; GEOPHYSICAL MODEL; INTERPRETATION; MATHEMATICAL ANALYSIS; MATHEMATICS; MODEL; NORTH AMERICA; UNITED STATES; WESTERN US
Minor Headings:	AMPLITUDE VERSUS OFFSET; MARCELLUS SHALE; SEISMIC ATTRIBUTE ANALYSIS; SPECTRAL ANALYSIS; WAVE ATTENUATION; WELL LOGGING DATA
Descriptors:	ENGLISH; FREQUENCY ANALYSIS; FREQUENCY DOMAIN; GEOPHYSICS (C); IMAGE ENHANCEMENT; IMAGING; INTERPOLATION; LIMESTONE; NOISE REDUCTION; PRESTACK TIME MIGRATION; Q MEASURING; RANDOM NOISE; SEISMIC CORRELATION; SEISMIC DATA; SEISMIC EVENT; SEISMIC NOISE; SEISMIC RECORD QUALITY; SEISMIC RECORDING; SIGNAL TO NOISE RATIO; SYNTHETIC SEISMOGRAM; THREE DIMENSIONAL SEISMIC; TIME MIGRATION; WAVE AMPLITUDE; WAVE SPECTRUM AMPLITUDE; ANALYTICAL METHOD; ATTENUATION; CARBONATE ROCK; CHANGE; CHART; CORRELATION; DATA; DATA IMPROVEMENT; DOMAIN; EXPLORATION; GEOPHYSICAL DATA; GEOPHYSICAL EXPLORATION; IMPROVEMENT; MEASURING; MIGRATION; MIGRATION (SEISMIC); NOISE; RECORD; RECORD QUALITY; RECORDING; ROCK; SEDIMENTARY ROCK; SEISMIC EXPLORATION; SEISMIC RECORD; SEISMIC REFLECTION METHOD; SEISMIC WAVE ANALYSIS; SPECTRUM; TESTING
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