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Quiz-2: Seismic Data Processing and Interpretation Practical (GPC 519) of Monsoon Semester 2020-21

1 message

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To: deepak.19mc0025@agp.iitism.ac.in

Tue, Nov 3, 2020 at 4:04 PM

Thanks for filling out [Quiz-2: Seismic Data Processing and Interpretation Practical \(GPC 519\) of Monsoon Semester 2020-21](#)

Here's what we got from you:

Quiz-2: Seismic Data Processing and Interpretation Practical (GPC 519) of Monsoon Semester 2020-21

All answer should be concise and precise
Answer all Question
No Negative Marks

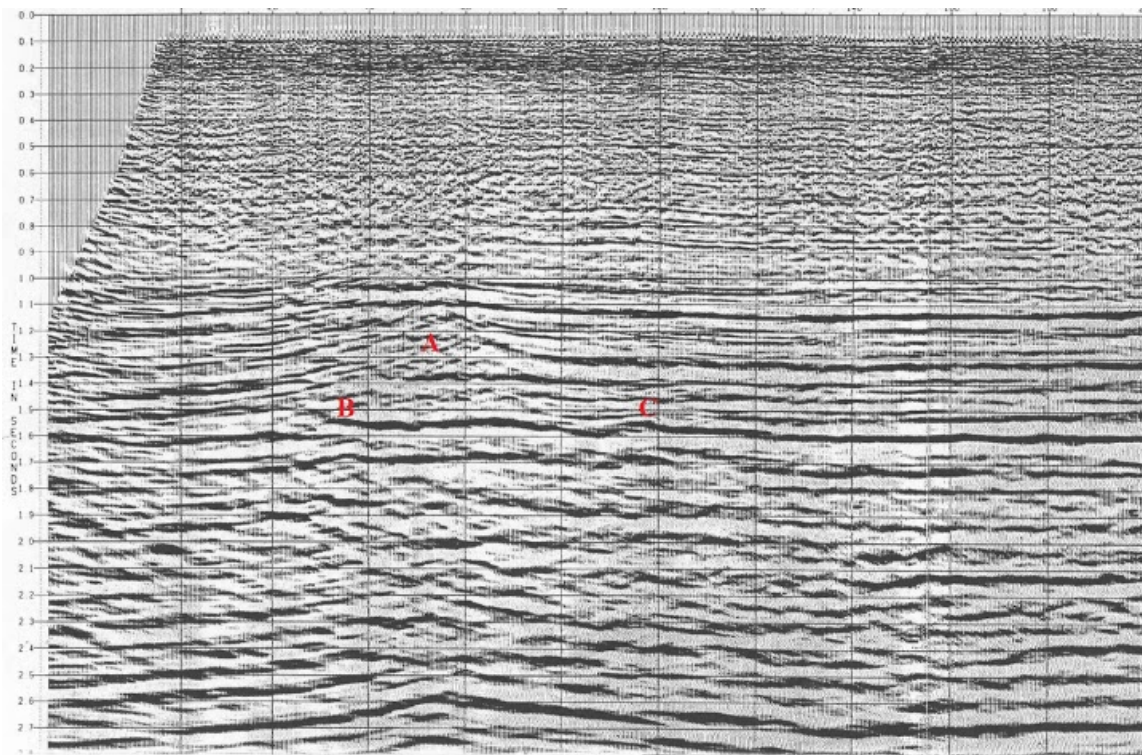
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The following values are provided for different lithologies. Find out gas sand from provided lithologies based on the estimation of single Lamé's parameter. *

Lithology	Vp (m/s)	Vs (m/s)
A	6260	3240
B	7050	4160
C	6060	4150
D	3453	2302

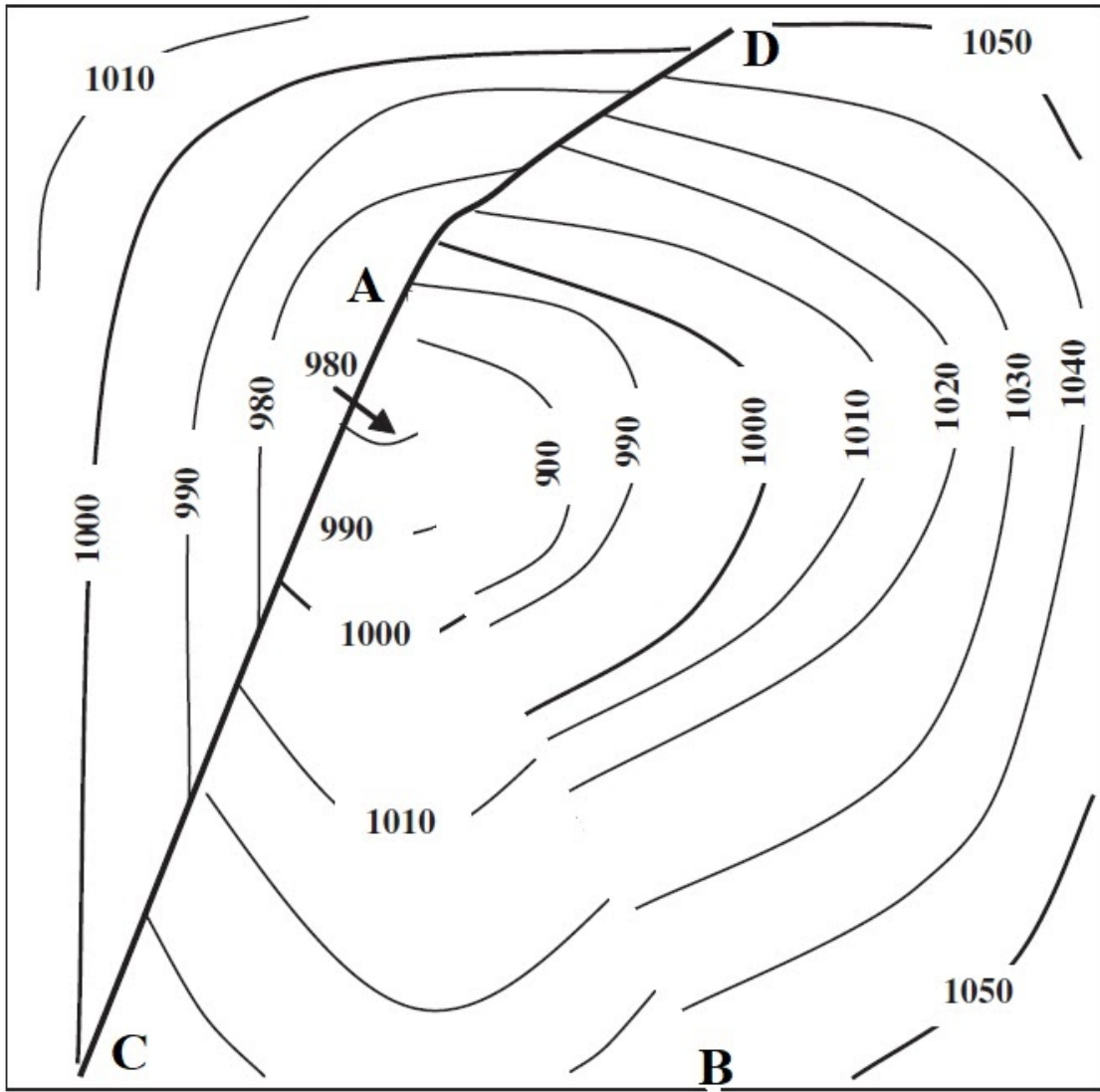
B

Identify the structural signature from the given seismic section. *



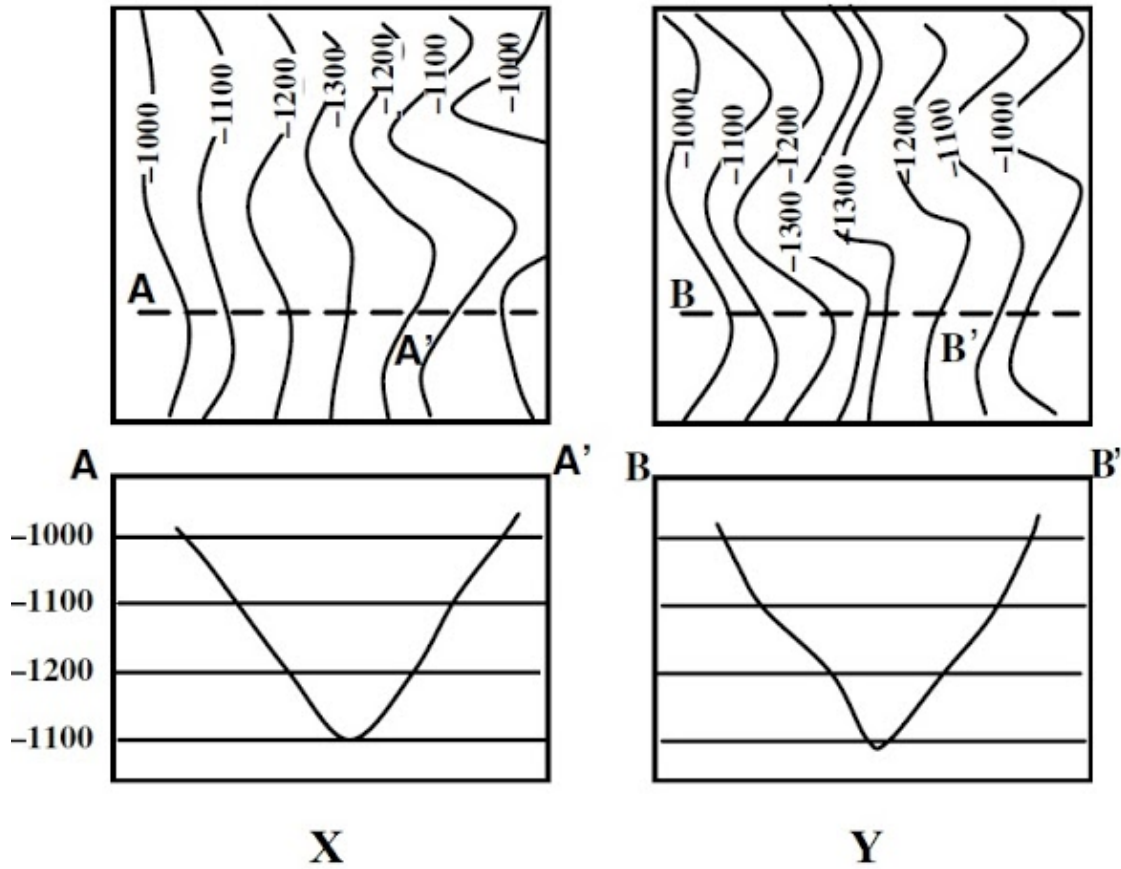
anticline, MAY BE SALT DOME

How this contour map can be corrected and why? *



fault because fault change in sudden contour

Which one is correct for cross-sectional representation in between X and Y of two contours? *

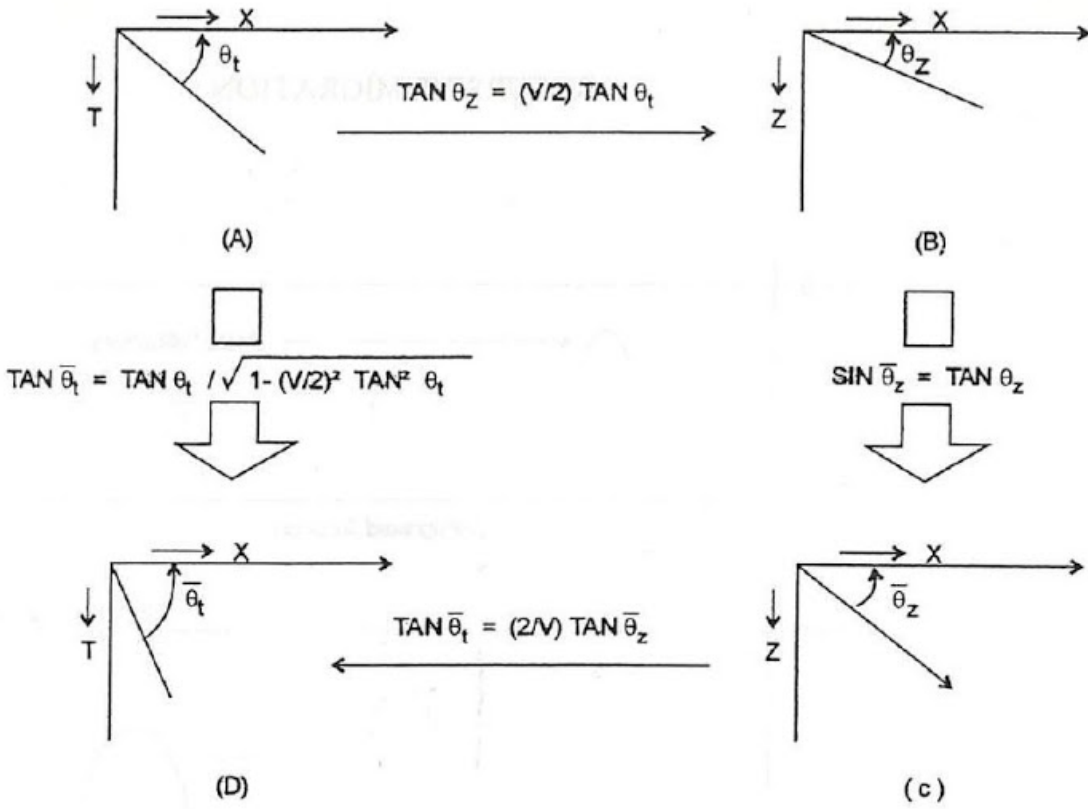


Y

V1: 6500 ft/sec; H1: 650 ft; V2: 8000 ft/sec; H2 : 1000 ft; $\Delta t_1 = 100$ ms (OWT) and $\Delta t_2 = 125$ ms (OWT); Find out RMS velocity? In which domain of Migration this velocity will be applicable? Do you expect any kind of distortion in image after using this velocity for migration? *

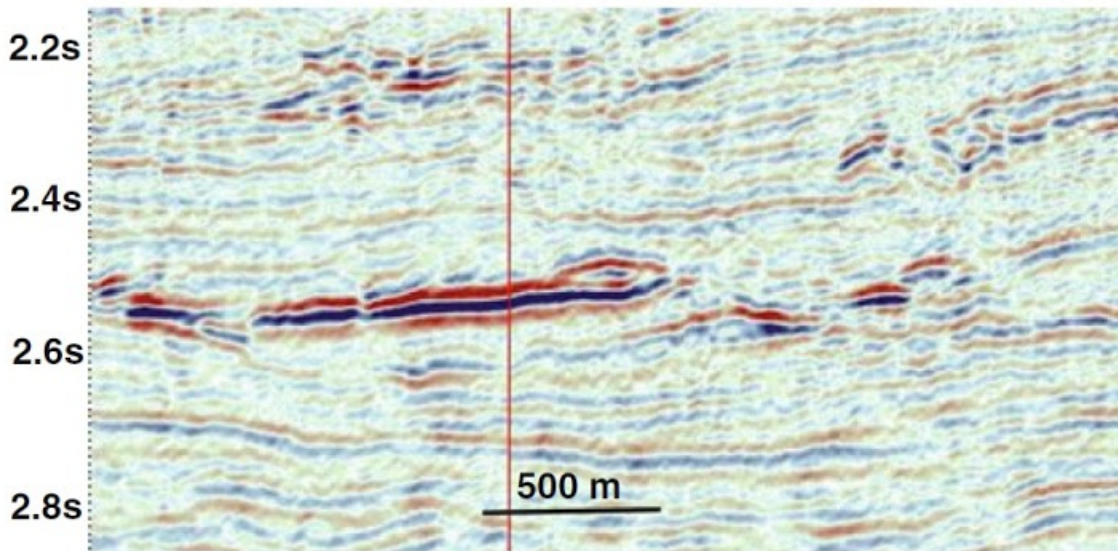
Vrms = 7371.11ft/sec, time domain,

Identify Flow process of Migration based on "A", "B", "C" and "D". Notations are carrying standard meaning of Migration *



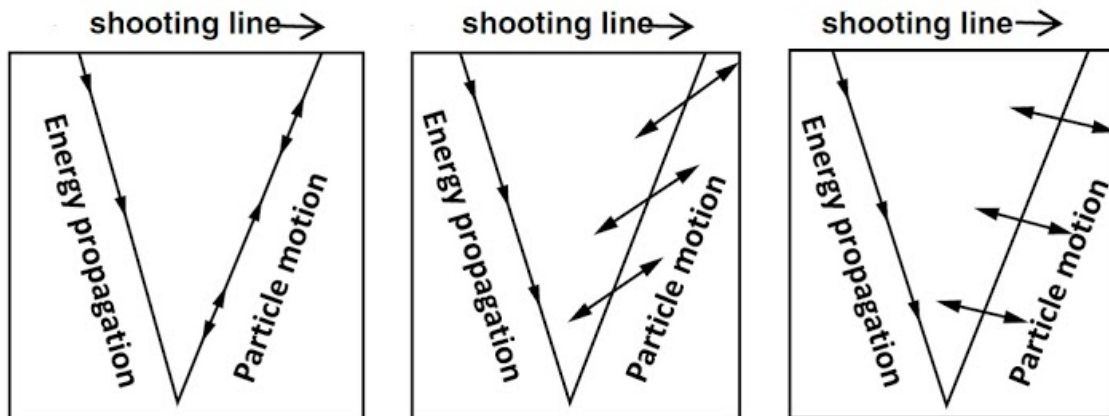
C TO D MIGRATION,

Name/identify the Special Character from the Seismic Image. *



ps section , may be reseivior , bright spot

Identify the waves based on particle motion. *



1 - p wave ,3 - s - Horizontal(SH), 2-s vertical(SV)

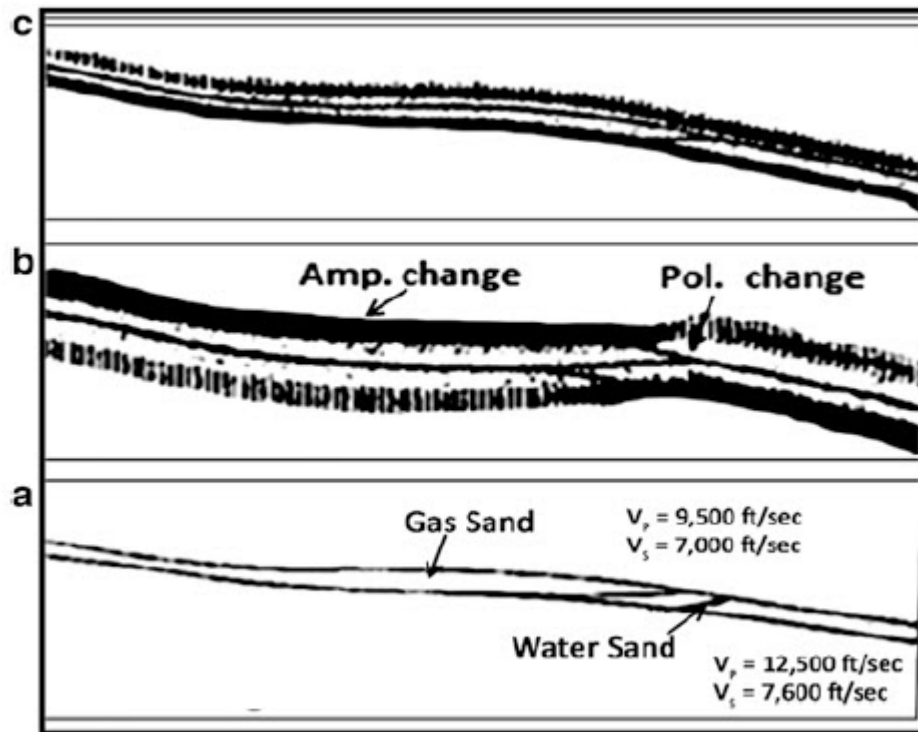
Low-Impedance Gas Sand is, *

- Class 1 AVO
- Class 2 AVO
- Class 3 AVO
- Class 4 AVO

AVO is mostly applicable to siliciclastic sand hydrocarbon reservoirs though more commonly to ones saturated with gas where the effect of amplitude anomaly is more pronounced. *

- True
- False

Identify Geological model, P-seismic and S-seismic based on "a", "b" and "c". *



Bright spot - gas sand

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