OTM-012: Identifying conflicting sources of seismic signals

Identifying conflicting sources of seismic signals

Challenge

	Challenge ID	OTM:012					
1	Title	Identifying conflicting sources of seismic signals					
2	Theme ID	ON 1.1: Seismic Planning - Areas of poor coupling					
3	Originator of Challenge	Onshore: OTM					
4	Challenge Reviewer / initiator	PEMEX					
	General description	Overview of Challenge					
5	What is the nature of the challenge? (What is not adequately addressed at present?)	Data quality from seismic surveys can be affected by the presence of conflicting sources of seismic signals. Noise from the surface which interferes with the seismic survey could include flares, road noise, oilfield infrastructure etc					
		Baseline maps which identify assets and infrastructure likely to cause these, and thus enable a solution which can identify such sources would be valuable. [WesternGeco experience in Australia had an instance where a flare was very clearly influencing seismic data]					
6	Thematic information requirements	4. Obtain detailed land-use information, 12. Identify the presence of sub- surface or covered infrastructure, 14. Obtain detailed imagery of the surface,					
7	Nature of the challenge - What effect does this challenge have on operations?	Signals interfe affect the outp and type, seise	Signals interfere with those of generated by seismic sweeps, and detrimentally affect the output data from the survey. An understanding of the signal source and type, seismic lines could be planned to mitigate against this.				
8	What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	Anomalies in include consider will only be defined	seismic sur leration for conners once the a	veys will be onflicting sour anomaly has be	examined. The ces of seismic sen seen.	nis examination will ignals - however this	
9	What kind of solution do you envisage could address this challenge?	A map based marked would	product ont be very usef	to which nois ul	e from non-seis	smic sources can be	
		EO could be useful in informing the planning process early on.					
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[1] Impact quantification scores: 4 - Critical/enabling; 3 - Significant/competitive advantage; 2 - Important but non-essential; 1 - Nice to have; 0 - No impact, need satisfied with existing technology

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There is no content with the specified labels