# OTM-058: Identifying ground conditions susceptible to poor coupling

#### Identifying ground conditions susceptible to poor coupling

### Challenge

	Challanca ID	OTM:058				
1	Challenge ID Title		1 1:4:		4	1!
1				ons susceptible		piing
2	Theme ID	ON 1.1: Seismic Planning - Areas of poor coupling				
3	Originator of Challenge	Onshore: OTM				
4	Challenge Reviewer / initiator	PEMEX, Statoil, PetroSA, Petronas				
_	General description	Overview of Challenge				
5	what is the nature of the challenge? (What is not adequately addressed at present?)	It is necessary to maintain signal transfer and integrity through good coupling between the baseplate and surface. Obstacles such as small boulders make it impossible to achieve good coupling and consequently, these can demand a change in the sweep location or even prevent the sweep from taking place. This impacts the quality of the survey output.				
		We need to i	dentify whern our survey	are located and how they a for these and develop a		
6	Thematic information requirements	survey that uses the most efficient lines.  1. Obtain detailed topographic information, 2. Obtain detailed terrain characterisation, 4. Obtain detailed land-use information, 11. Determine lithology, mineralogy and structural properties of the near surface,				
7	Nature of the challenge - What effect does this challenge have on operations?	Inthology, mineralogy and structural properties of the near surface,  The quality of output can be reduced if grid spacing is too varied. Quality of output can also be reduced if the coupling at the point is not satisfactory. This can ultimately lead to reservoir understanding being hampered, and thus a reduction in potent				
8	What do you currently do to address this challenge?/ How is this challenge conventionally addressed?			ahead of seisn ps), online ima		remote sensing, historical
9	What kind of solution do you envisage could address this challenge?					
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10	What is your view on the capability of technology to meet this need? – are you currently using EO tech? If not, why not?					
10	meet this need? - are you currently using EO tech? If		_	_	_	_
10	meet this need? – are you currently using EO tech? If not, why not?	Pre license	Exp.	Dev.	Prod.	Decom.
	meet this need? – are you currently using EO tech? If not, why not?  Challenge classification  Lifecycle stage	Pre license	Exp.	Dev.	Prod.	Decom.
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11	meet this need? – are you currently using EO tech? If not, why not?  Challenge classification  Lifecycle stage  Score from impact quantification [1]	2	3	0		
11 12	meet this need? – are you currently using EO tech? If not, why not?  Challenge classification  Lifecycle stage  Score from impact quantification [1]  Climate classification	2 NOT CLIMA	3 TE SPECIFI	0 CC		
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<sup>[1]</sup> 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

## Relevant products

#### Content by label

There is no content with the specified labels