OTM-007: Identify communication between producing zones

Identify communication between producing zones

Challenges

	Challenge ID	OTM:007				
1	Title	Identify communication between producing zones				
2	Theme ID	ON 3.3: Subsidence monitoring - Reservoir management				
3	Originator of Challenge	Onshore: OTM				
4	Challenge Reviewer / initiator					
	General description	Overview of Challenge				
5	What is the nature of the challenge? (What is not adequately addressed at present?)	Where a well is producing from multiple zones (e.g. in long horizontal wells which target different producing zones), the ultimate draw-down can be hampered if the zones produce at non-expectant rates.				
6	Thematic information requirements	1. Obtain detailed topographic information, 13. Monitor ground movement,				
7	Nature of the challenge - What effect does this challenge have on operations?	Maximum production from a reservoir might not be achieved				
8	What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	Downhole tools, in hand with Intelligent completions / passive inflow control devices.				
9	What kind of solution do you envisage could address this challenge?	Ground movement imagery could confirm drawdown in certain zones				
10	What is your view on the capability of technology to meet this need? – are you currently using EO tech? If not, why not?	EO could be a complimentary technology, but only where producing zones are not vertically on top of each other (e.g. with long horizontals etc..)				
	Challenge classification					
11	Lifecycle stage	Pre license	Exp.	Dev.	Prod.	Decom.
	Score from impact quantification [1]	0	0	0	2	0
12	Climate classification	NOT CLIMATE SPECIFIC				
13	Geographic context/restrictions	Generic onshore (Unspecified)				
14	Topographic classification / Offshore classification	Generic onshore (Unspecified)				
15	Seasonal variations	Any season				
16	Impact Area	Increased production				
17	Technology Urgency (How quickly does the user need the solution)	Immediately (0-2 years)				
	Information requirements					
18	Update frequency	daily / weekly /annually (application dependent)				
19	Data Currently used	Well production rates				
20	Spatial resolution	Well production rates				
21	Thematic accuracy					
22	Example formats	GIS Shape file				
23	Timeliness	Within a month				
24	Geographic Extent	Reservoir footprint				
25	Existing standards	No industry standards. TRE have their own internal INSAR standards				

[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*

Relevant themes

Content by label

There is no content with the specified labels