



Advances and Next Steps for WOC 1

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2nd WOC1/PGCA Meeting

Rio de Janeiro, Brazil

18-21 February 2013

Topics

- ❖ ***Membership***
- ❖ ***Provisional Schedule of the meetings***
- ❖ ***Work in progress :***
 - ***Study Groups reports***
 - ***Transversal Pillars Issues***
 - ***WGC 2015 sessions***
- ❖ ***External relations / other activities (articles...)***
- ❖ ***Photo Gallery***

Membership / WOC 1

- ❖ ***Total nominated members : 63***
- ❖ ***Meeting attendees : 27***

Meeting Schedule / WOC 1

Date and location of the 6 meetings

1	2	3	4	5	6
Sapporo	Rio de Janeiro	Kota Kinabalu	tbd	tbd	tbd
25-28 September 2012	18-21 February 2013	3-6 September 2013	4-7 February 2014	26-29 August 2014	3-6 February 2015

Study Groups : Work Progress / WOC 1

SG 1.1 : Technological advances in the E&P of natural gas

◆ **Leader : Mr. Adif Zulkifli, Petronas**



◆ **Terms of reference include**

- Revision of the technologies and standards that have become mandatory in the development of upstream projects, aiming at the consolidation of best practices for both conventional and unconventional gas.
 - Includes the formulation of best practices for hydraulic fracturing and the production of unconventional gas
- Analysis of new promising technologies that have recently emerged via R&D
- Transversalities
 - Technological advances in the production of unconventional gas to be assessed with PGC F, their environmental impacts with PGC A, and their political repercussions with TF 2
 - WOC 1 has suggested the use of upstream technology as an instrument to attract young people to the industry, Mr. Nazri Malek (Petronas) represented WOC 1 in the first meeting of TF 1 in Doha, 19-20 September 2012

Study Groups : Work Progress / WOC 1

SG 1.1 : Technological advances in the E&P of natural gas

Topics of interest

Exploration and appraisal

- Advances in seismic and imaging technology;
- Geological and geophysical surveys;
- Drilling technologies;
- Well surveys.

Development

- Processing and management of gas with high CO₂ content, H₂S and helium;
- Multi-stage and other fracturing technologies;
- New technologies for the development of stranded gas;
- FLNG and FGTL;
- Subsea systems.

Production

- Smart completions;
- Water control and shutoffs;
- Processing improvements, retrofits and revamps;
- Extraction technologies;
- Enhancement of brownfield productivity.

Study Groups : Work Progress / WOC 1

SG 1.2 : Assessment of global reserves and resources

❖ ***Leader : Dr. Mohamed Kaced, Sonatrach***



❖ ***Terms of reference include***

- Development of reliable estimates for both conventional and unconventional reserves and resources;
- Analysis of the most important projects under development and their potential impact in the availability of natural gas from both regional and global standpoints;
- Assessment of initiatives and best practices for the reduction of gas flares as a means to enhance the supply of natural gas;
- Transversalities
 - Joint Committee Meeting (JCM) held with PGC A in Sapporo, Sept 25-28
 - Second JCM with PGC A in Rio de Janeiro, 18-21 February 2013

Study Groups : Work Progress / WOC 1

SG 1.2 : Assessment of global reserves and resources

Topics of interest

- Remaining reserves and resources of conventional gas;
- Reserves and resources of shale gas, tight gas, coal bed methane and natural gas hydrates;
- Initiatives for gas flaring reduction and enhancement of gas supply;
- Exploratory and discovery trends;
- New frontiers and exploratory areas for natural gas

Study Groups : Work Progress / WOC 1

SG 1.3 : Gas Rent and Mineral Property Rights

❖ ***Leader : Dr. Marcos Sugaya, Petrobras***



❖ ***Terms of reference include***

- Analysis of business models adopted around the world to maximize gas rent;
- Critical analysis of fiscal instruments, identification of regulatory tendencies in the development of upstream policies for gas rent;
- The institutional environment and the dynamics of change in selected countries;
- Transversalities
 - Dr. Sugaya attended the first meeting of TF 2 in Milan, 11-12 October 2012, as a representative of WOC 1

SG 1.3 : Gas Rent and Mineral Property Rights

Results and next steps

- Case study presented in Sapporo, comparing the fiscal regimes adopted in Norway and the UK
 - Government take and general attractiveness of upstream businesses estimated
 - A few possible theses suggested for developed during the current IGU triennium
- For the next meeting in Rio
 - Analyses for Brazil, Algeria, Mozambique, Angola and Tanzania to be disclosed

Transversal Pillars Issues / WOC 1

- ✧ **Yellow Pillar (Renewables and Electricity Combination) :**
 - *No direct transversalities for WOC 1*
- ✧ **Purple Pillar (Human Resources) :**
 - *A representative of WOC 1 attended the 1st TF 1 Meeting in Doha*
- ✧ **Green Pillar (Sustainable Development) :**
 - *Joint Committee Meetings with PGC A in Sapporo and Rio*
- ✧ **Red Pillar (Gas Everywhere) :**
 - *Intrinsic activity of WOC 1*

WGC 2015 Sessions / WOC 1

Proposed sessions for WGC 2015:

- ***Total of five or six oral panels***
 - *Two or three committee sessions*
 - *One or two expert forums*
 - *One strategic panel on unconventional gas*
 - *One strategic panel on gas flaring reduction?*
- ***One interactive expert showcase or poster session***

External Relations / WOC 1

External relations :

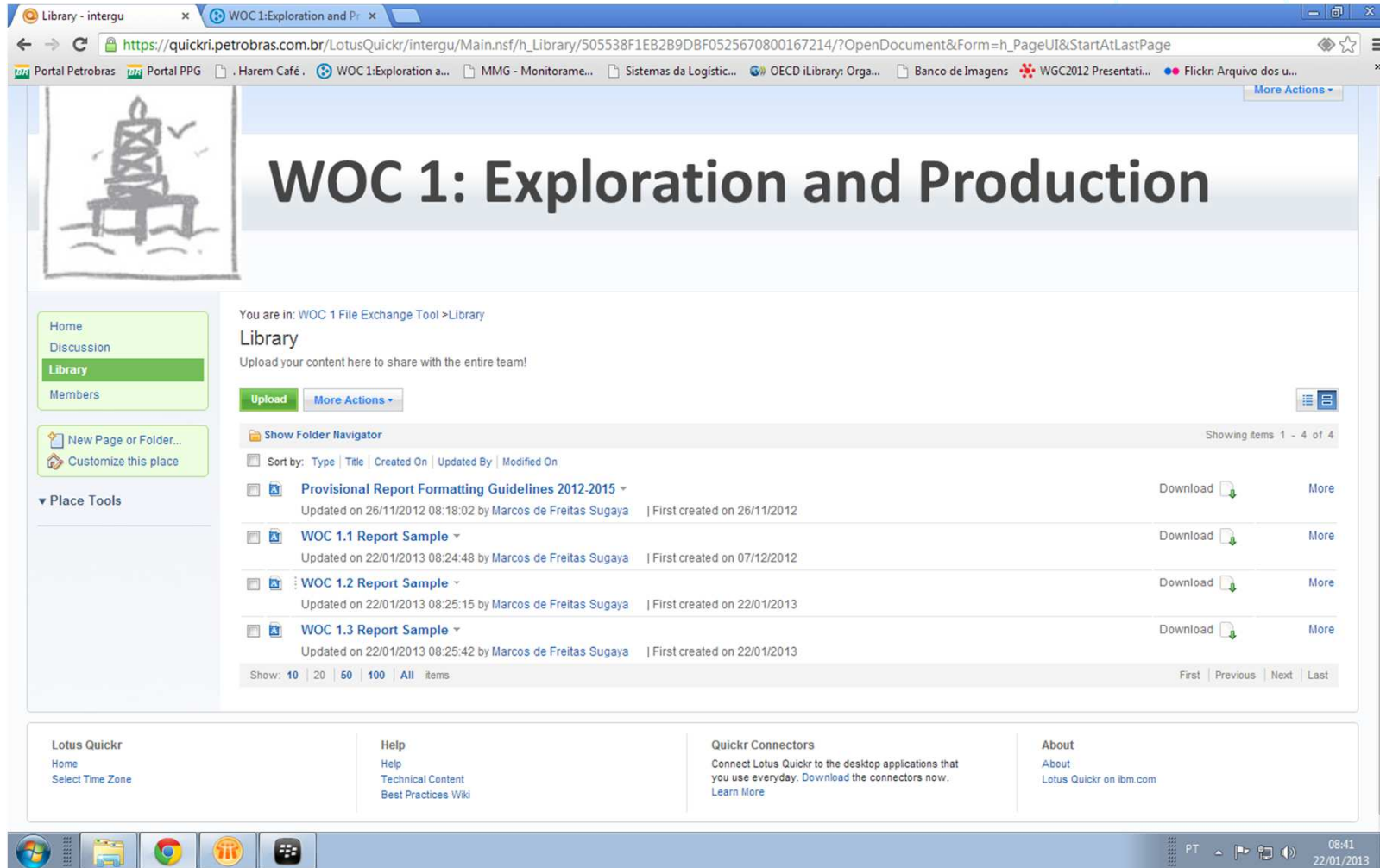
- **Global Forum, World Bank:**

- ✓ **SG 1.1 to study best technologies for the reduction of gas flaring**
- ✓ **SG 1.2 to study amounts of gas being flared that could be utilized**
- ✓ **SG 1.3 to study fiscal / legal incentives in different countries to stimulate flaring reduction?**

Articles for IGU Magazine :

- **Each study group to deliver at least two articles from 2012 to 2015, total of six**

Triennial Report



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Photo Gallery / WOC 1



2nd WOC-1 and PGC-A Joint Meeting

Obrigado!

