

The STC Senegal project is targeting 40 primary schools and 20 pre-schools, including the 30 primary schools and 15 pre-schools in Pikine and Guediawaye and 10 primary schools, and 5 preschools in Rufisque.

The specific objectives of STC project funded by Woodside are focused on:

- Making schools safe and protective spaces for girls and boys
- Improving learning outcomes through appropriate support for girls and boys.

The primary schools are all using STC's widely proven approaches: Literacy Boost (LB) and Emergent Literacy and Mathematics (ELM) and implementing safe schools' approaches.

On November 28, 2020, a kick-off workshop initiated by STC was held in the 'Social Pediatrics Centre' in Pikine. This workshop provided the opportunity for STC to launch Phase 3 of the Project by presenting on the planned actions for 2021. The event brought together 47 participants composed of educators, inspectors, reading club volunteers, students and parents, and a representative from Woodside. Woodside provided an overview of its approach to Social Investment STC's Project Coordinator gave a general

presentation on STC's procedures, before assessing the results for Phase 2 of the project implementation.

The workshops focused on the identification of challenges and proposals for improvement of the project, with participants including

- School Directors, Teachers, and Students
- Inspectors and Parents
- Reading Club Volunteers.

At the end of the event Woodside congratulated the participants for the constructive outcomes of the workshops and encouraged them to maintain their remarkable efforts supporting early childhood which represents the future of the country.



Woodside visits INPG's Students

On December 1, 2020, Woodside Senegal, represented by its Country Manager and Technical Operations Analyst, visited the premises of the *Institut National du Pétrole et du Gaz* (INPG) to meet the second graduating class. This class of about twenty students, which includes two females, are all enrolled in a specialized Masters degree in Oil and Gas Engineering which will lead to an INPG certification. The participation of Woodside in this workshop represents its continued commitment to progressing the development and capacity-building of Senegalese organisations.

As an active member in the Oil and Gas sector, Woodside was pleased to participate in the event, organized by INPG, in order to provide an overview of Woodside's current activities with INPG's students. The workshop also provided the opportunity for the Country Manager to identify future talents and to introduce the Sangomar Development to students, positioning Woodside as a potential employer of choice, with internship opportunities that could possibly lead to employment at Woodside.

The 3-hour workshop elicited a genuine interest and enthusiasm from students, resulting in a long question-and-answer period following

the presentation of the Sangomar Development. The students also expressed their interest in the development and the direct or indirect employment opportunities.

Woodside plans to hold a series of more technical presentations during the first quarter of 2021, in the context of anticipated drilling activities. This may provide the INPG students with a more detailed understanding of drilling and completions and subsea scope.



We welcome your feedback and questions

We welcome and encourage questions and feedback from all stakeholders regarding our current and planned activities.

In Senegal, Woodside uses a variety of communication tools and undertakes regular consultations to ensure that relevant local communities and stakeholders are kept informed and consulted on our activities and the Sangomar Field Development.

The community feedback process for Senegal has been developed to collect feedback regarding the activities of Woodside and its subcontractors.

Due to COVID-19, there are travel and meeting restrictions in place, however we encourage stakeholders to contact us via WhatsApp on **+221 76 223 43 41** or via email at

developpementsne@woodside.com.au

SANGOMAR FIELD DEVELOPMENT

SANGOMAR NEWSLETTER

February 2021



Welcome to Woodside's third Sangomar Field Development community newsletter. Our newsletter provides an opportunity to inform the community of the latest activities occurring in Senegal to support the Sangomar Field Development, Senegal's first offshore oil development.

Woodside's regional Community engagement

From 16 to 20 November 2020, Woodside¹ as Operator of the Rufisque, Sangomar and Sangomar Deep offshore (RSSD) sent a delegation composed of Senegal Country Manager, Country representative, and HSE Advisor, to visit the communities living in our areas of operations, on the Senegalese coast, and specifically in the regions of Thies and Fatick.

Woodside's approach to stakeholder engagement ensures that all relevant stakeholders constituted by individuals, groups of individuals, or organizations that might be affected, potentially affected, or interested in the Sangomar Field Development Phase 1 (Sangomar Development) will be engaged.

Over a duration of 4 days, Woodside undertook a series of engagements with regional authorities and fishing stakeholders in those two regions of Senegal. The objectives of those

engagements were to meet newly appointed Government officials and all other Government officials, to provide them with a status update on the Sangomar Development, and to gather their insights to help inform the current Sangomar Development Social Investment Program

Valuable feedback was received during the visit and Woodside's next quarterly site visit is currently scheduled for February 2021. This will be an opportunity for Woodside to provide its stakeholders with further introductory information sessions on the Oil and Gas industry, as well as a general update on the Sangomar Development to enable them to get acquainted with the project and its various stages. It will also be an opportunity for Woodside to speak further about the anticipated drilling and completions campaign targeted for mid-2021, as part of our commitment to consult our communities before, during, and after an activity.



1. Woodside is the pioneer of the LNG industry in Australia, and the largest independent Australian oil and gas producer. Woodside has a global portfolio and are recognised for world-class capabilities as an integrated upstream supplier of energy. For more information about Woodside see: www.woodside.com.au



Project update – Sangomar Drilling activities

Woodside is targeting commencement of well construction operations in the Sangomar field in mid-2021. Up to 23 wells are planned to be drilled and completed, which comprise of several different well types to allow the oil reservoirs to be produced efficiently.

These wells are in varying water depths, between 837m and 1367m. They have similar designs to the exploration wells already drilled in the field, commencing with casing 36 inches in diameter. An additional three casing strings will be required to reach the reservoir, with each being cemented in place. An 8.5 inch diameter hole will be drilled horizontally through the reservoir for between 750m and 1500m depending on the well type. Specialty tools will allow the geologists to identify the location of hydrocarbons as we drill, to optimally place the wells within the reservoir.

Once the well has reached total depth either stand-alone-screens or a gravel pack lower completion will be run to allow the wells to either flow hydrocarbons or inject water. It is expected to take approximately 1450 days (almost four years) of rig days to complete the entire scope.

Through design and during execution there is a heavy focus on minimising the risk to people and the environment. This is achieved during the design phase by following industry standards and best practices. During execution a minimum of two independent barriers will be in place to any hydrocarbons. A barrier is a part of the well which is designed to prevent pressurised water or hydrocarbons from flowing unintentionally from the formation. Should one barrier unexpectedly fail, the second barrier (such as a blow-out preventer) would protect the people working on the rig and the environment until the failed barrier can be reinstated.

The work will be completed by two drillships, the Ocean BlackRhino and Ocean BlackHawk. These drillships were constructed in 2014 and are owned and operated by Diamond Offshore. Each rig can accommodate up to 210 personnel.

To allow operations to progress as seamlessly as possible, a total of five new facilities are being constructed by our contractors in Dakar as summarised below:

- Halliburton and Baker Hughes will each construct a facility capable of preparing and servicing their equipment that will be used offshore. They will be staffed by both Senegalese and international employees.
- Sumitomo are constructing a casing and tubing yard where the casing and tubing used in the wells will be stored and prepared. Approximately 165km of casing and tubing will be required for the project.
- A liquid mud plant (LMP) is being constructed at Dakar Port. The LMP will supply the fluid and bulk material, such as cement and barite, to the rig.
- A supply base is being constructed at Dakar Port which will act as a staging point for any equipment sent to the rig.

Operations will be supported around the clock by personnel based in both Dakar and Perth, Australia. A team will be arriving in Dakar from Perth in March 2021 to prepare for the campaign. The Dakar team will be predominantly supporting the two rigs operating, with support from the existing Dakar staff, Perth based engineers and subsurface specialists as required.

Oil and Gas - Learning session: Xmas Trees

For the first phase of the Sangomar Development there will be as many as 23 subsea Xmas trees.

- **What is a subsea Xmas tree and what are they used for?**
The function of a Xmas tree is to contain and control fluid. For Sangomar, the fluid is hydrocarbons, water, and other compounds. An Xmas tree contains and controls this fluid by using solid steel and lots of valves. Xmas trees are an important part of the subsea infrastructure.
- **Where did the name Xmas tree come from?**
The Xmas tree derived its name from its unique looking valve configuration, which resembled that of a pine tree or Christmas tree.
- **What is the weight and size of a Xmas tree?**
Each Xmas tree weighs up to 50 tonnes which is equivalent to 8 fully grown elephants. The length, width and height of a Xmas tree is 6 x 5 x 4 meters, which is also similar to 2 fully grown elephants standing side by side.



- **Where are Xmas trees made?**
Sangomar Xmas trees are currently being manufactured by the Subsea Integration Alliance (SIA) at One Subsea's manufacturing plant. The first Xmas tree is targeted to arrive in Dakar in Q2 2021 to be installed later that year.
- **How will they be installed?**
Sangomar Xmas trees will be installed using drill ships and construction vessels.

Woodside participates in the OSIDEA Roundtable for the 2nd consecutive year

Woodside sponsored the 2nd edition of the Roundtable on the Governance of Mineral Resources (the Roundtable). This contribution marks Woodside's efforts to support this annual initiative, which is part of a framework of exchange and reflection between members of the Government, participants in the oil and gas industry, and members of the civil society in Senegal.

This event was initiated by the *Observatoire de suivi des indicateurs de développement économique en Afrique* (OSIDEA), led by its President Cheikh Oumar Sy. It brought together 120 participants, and took place on November 24, 2020, at the Terrou-Bi Hotel in Dakar, under the theme "Management of Hydrocarbons: Socio-economic Impact of the COVID-19 health crisis on oil and gas exploitation in Senegal". The Minister of Petroleum and Energy Mrs Aissatou Sophie Gladima attended the event, as well as the Minister of State and Chairman of the National ITIE Committee Mrs Eva Marie-Cole Seck, BP Director Geraud Moussarie, the Executive Director of ONG 3D Moundiaye Cisse, the Senegalese Architect Pierre Goudiaby Atepa.

The 2020 Roundtable provided the opportunity for the Ministry of Petroleum and Energies of Senegal, Woodside and the oil and gas company BP, to review the progress made with the participants regarding the exploitation of hydrocarbons in Senegal and to share with them any insights regarding the expectations of the communities and other stakeholders.

"The movement despite the crisis" was the motto of the keynote presented by Fary Ndao, geological engineer, author of the book "The black gold of Senegal: Understanding the oil industry and its challenges in Senegal".

Woodside was represented by its Country Manager Mr David Grislain, who provided a presentation on the Sangomar Development, local content and the impact of COVID-19 on current activities. The Country Manager also participated in the panel session, moderated by Cheikh Oumar Ba, alongside COS-Petrogaz, GES-Petrogaz, and PETROSEN.

The key topics on the agenda were stakeholder engagement and communication, community relations, local content, the impact of COVID-19 on oil and gas projects in Senegal, natural resources for the Senegalese people and the Senegalese Constitution.



Social Investment - Woodside funds Save The Children for the 3rd consecutive year

Woodside in its corporate capacity has funded Save The Children (STC) for three consecutive years (2017 – 2020). The 3-year project is focused on early childhood and is aligned with one of Woodside's corporate Social Investment focus areas. The support of STC was provided by Woodside's Development Fund (WDF) initiative which supports, early childhood development programs and organisations.

The Ministry of Education is also in partnership with Save the Children International (SCI) and its office in Senegal, is implementing the project "Stay Safe and Learn", which aims to help children in pre-school and primary school to improve their reading and mathematics skills in a safe and protective environment through community engagement and empowerment. The project operates in three education regions Pikine, Guediawaye and Rufisque covering schools in those districts. ➤