Saturn (Annabel) Asset Data Sheet

Installed: 2005
First Gas: 2005
Cessation of Production: May 2016

Location: The Saturn (Annabel) wells are shut in and located in the UK sector (block 48/10a) at 53.681633° N 01.923652° E (48/10a-12) and 53.682292° N 01.924819° E (48/10a-14) in the southern North Sea, approximately 33km North of the LOGGS complex and is tied back to the Audrey A (WD) platform. The Saturn (Annabel) Manifold is located at 53.681363° N 01.923609° E. See Figure 1.

Gas Reservoir: Lower Leman Sandstone Formation of the Lower Permian Rotliegend Group, Top of Reservoir 10,500ft.

Well: Two single subsea production well tie backs to Saturn (Annabel) Manifold; 48/10a-12 (AB1) & 48/10a-14 (AB2). Water depth ~27m.

Pipeline: PL2066 - 10” x 17.8km Gas Export pipeline from Saturn (Annabel) Manifold to Audrey A (WD) platform. PL2066JW12 - 8” x 35m Gas Export spool piece from AB1. PL2066JWAB2 - 8” x 133m Gas Export spool piece from AB2.

Umbilical: PL2067 - 4.5” x 13.4km long umbilical from Saturn (Annabel) Manifold to Audrey B (XW) platform. Consists of a hydraulic, methanol and electrical bundle. PL2067JW12 - 88m umbilical to AB1. PL2067JWAB2 - 198m umbilical to AB2.

Manifold: 1 x Manifold protection structure; 2 x Wellhead Protection Structures of welded construction.

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1 In official documentation such as Pipeline Works Authorisations, the “Annabel” development is often referred to as the “Saturn (Annabel)” development.

2 Referred to as “Template” in the Decommissioning Programmes and Figure 1
Figure 1: Saturn (Annabel) Layout

- **ANNABEL WELL 1** (AB1)
  - 10 fronded mattresses (buried)
  - 5 concrete mattresses
  - 15 concrete mattresses
  - PL2066/W12 8” production jumper (0.03km)
  - PL2067/W12 control and chemical injection jumper (0.2km)

- **ANNABEL WELL 2** (AB2)
  - 22 concrete mattresses
  - PL2066/W2B 8” production jumper (0.13km)
  - PL2067/WAB2 control and chemical injection jumper (0.09km)
  - 5 concrete mattresses (PL2067/WAB2)

- **ANNABEL TEMPLATE**
  - 36 concrete mattresses

- **PL2066/W12 8” production pipeline** to Audrey A (WD) (17.8km)
- **PL2067 control and chemical umbilical pipeline** from Audrey B (XW) (13.4km)
- **PL2067/W12 8” production jumper** (0.13km)
- **PL2067/WAB2 control and chemical injection jumper** (0.09km)

 Platforms:
- To Audrey A (WD) Platform
- To Audrey B (XW) Platform

- **ANNABEL WELL 1** (AB1)
  - PL2066/W12 8” production jumper (0.03km)
  - 5 concrete mattresses
  - 15 concrete mattresses
  - PL2067/W12 control and chemical injection jumper (0.2km)

- **ANNABEL WELL 2** (AB2)
  - 22 concrete mattresses
  - PL2066/W2B 8” production jumper (0.13km)
  - PL2067/WAB2 control and chemical injection jumper (0.09km)
  - 5 concrete mattresses (PL2067/WAB2)