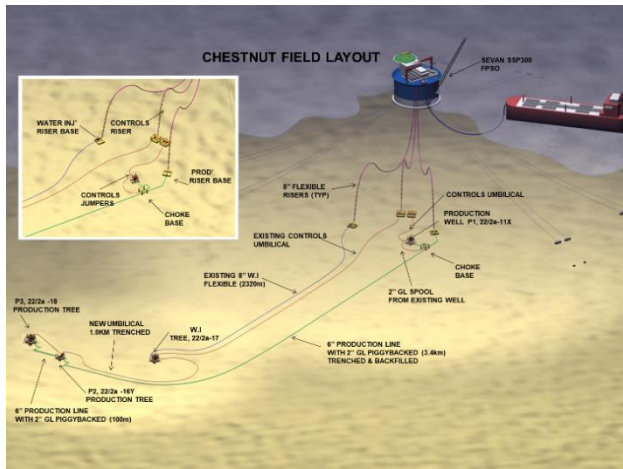


SPIRIT ENERGY INFRASTRUCTURE CODE OF PRACTICE



ASSET: HUMMINGBIRD SPIRIT

The Hummingbird Spirit is a Floating Production Storage and Offloading (FPSO) vessel leased by Spirit Energy from Teekay. The FPSO is a cylindrical SSP300 vessel with offshore tanker offloading facilities. The Hummingbird was first stationed at the Chestnut field in 2008. The Chestnut development comprises three production wells and one water injection well. Produced fluids are processed and stored on the FPSO then exported via shuttle tanker, normally to Rotterdam.

KEY FACTS:

LICENCE (CHESTNUT JOINT VENTURE)	P.354
BLOCK (CHESTNUT JV)	22/2A
SECTOR (CHESTNUT JV)	Central North Sea
OWNERS / OPERATOR (CHESTNUT JV PARTNERS)	Spirit Energy North Sea Oil Limited, (Op), 82.206%; Dana Petroleum (BVUK) Limited, 17.794%
APPROX DISTANCE TO LAND	120 nautical miles
WATER DEPTH	120m
HYDROCARBONS PRODUCED	Oil and gas
EXPORT METHOD	Offload tanker
MANNED / UNMANNED	Manned
FIRST PRODUCTION	Sept 2008
ACCOMMODATION ON BOARD	Max POB 47
DIAMETER	60 meters
DELIVERED	2008
CONTRACT STATUS	2023
DUTY HOLDER	Altera Infrastructure
MOORING TYPE	Spread Mooring / 12 lines

INFRASTRUCTURE INFORMATION:

EXIT SPECIFICATION	0.5% BS&W
OUTLINE DETAILS OF PRIMARY SEPARATION PROCESSING FACILITIES	1st and 2nd stage 3 phase separators Cargo tanks Produced water system consisting of degasser, hydrocyclone and filters
OUTLINE DETAILS OF GAS TREATMENT FACILITIES	Fuel gas vessels and heaters

SPIRIT ENERGY

INFRASTRUCTURE CODE OF PRACTICE

HIGH LEVEL CAPACITY INFORMATION:

PLATFORM FIRM PROCESSING CAPACITY AVAILABLE	ULLAGE AS % OF SYSTEM CAPACITY					COMMENT
	2020	2021	2022	2023	2024	
OIL EXPORT CAPACITY	●	●	●	●	●	270,000 bbls on FPSO 220,000 bbls per offload tanker
GAS COMPRESSION CAPACITY	NA	NA	NA	NA	NA	NA
GAS EXPORT CAPACITY	NA	NA	NA	NA	NA	NA
GAS LIFT CAPACITY	NA	NA	NA	NA	NA	NA
PRODUCED WATER HANDLING CAPACITY	●	●	●	●	●	30,000 BOWPD
DEHYDRATION CAPACITY	NA	NA	NA	NA	NA	NA
H2S REMOVAL CAPACITY	●	●	●	●	●	Low levels of H2S in process and cargo tanks are managed with chemical biocide dosing.
WATER INJECTION CAPACITY	●	●	●	●	●	20,000 BOWPD

ULLAGE AS % OF SYSTEM CAPACITY			
RED	<	5%	●
AMBER	5%	25%	●
GREEN	>	25%	●

CONTACT INFORMATION:

Donna Skinner, Commercial Manager
donna.skinner@spirit-energy.com