



**Judy**

High level capacity information & infrastructure specific information for prospective users

**Infrastructure Information**

Description:	Judy Facility
Entry Specification:	The entry specification for any future third party production is dependent upon the point at which such production would enter the Judy facilities and the composition of production already being processed at that time. The entry specification will cover areas that affect onward transportation as well as those which impact the Judy platform itself e.g. slugging limitations and contaminants
Exit Specification:	Liquids - Any liquids processed on the Judy facilities would be transported to Teesside through the J-Block Spur to the Norpipe System. The exit specification from the Judy facilities is the Norpipe entry specification which is directly negotiable between any prospective user and the Norpipe operator. However, any exit specification must be achievable with the processing facilities available on Judy.  Gas - Any gas processed on the Judy facilities would be transported through the CATS Pipeline via the T6 entry point. The exit specification from the Judy facilities is the CATS entry specification which is directly negotiable between any prospective user and the CATS operator. However, any exit specification must be achievable with the processing facilities available on Judy. Following on from transportation through CATS further processing would be required at either the CATS processing facility or TGPP
Outline details of Primary separation processing facilities:	Primary oil and gas separation is achieved by HP separators. The oil is conditioned by a second stage LP separator to the pipeline entry specification (145psia true vapour pressure at 100 °F) prior to export.
Outline details of gas treatment facilities:	The gas from the separators is compressed and dehydrated by a triethylene glycol system to achieve a maximum water content of 15kg per million cubic metres The hydrocarbon dewpoint of -2 °C at all pressures greater than 92 barg is achieved by NGL removal at the suction scrubbers of the second compression stage. Judy has limited H <sub>2</sub> S removal facilities.

**High Level Capacity Information**

The basic capacity information is portrayed by colour coded 'traffic lights' that reflect thresholds of availability over the next 5 years

Available Capacities		> 25%	5% to 25%	< 5%	Unknown/None		
Description	Capacity	Ullage as % of system capacity					Comments
		2018	2019	2020	2021	2022	
Oil export capacity (1)	100mbl/d						
Oil export pipeline capacity (1)							
Gas compression capacity (2) (3)	450 mmscf/d						
Gas export capacity	450 mmscf/d						
Gas export pipeline capacity							
Gas lift capacity (4)							
Dehydration capacity (5)	450 mmscf/d						
H <sub>2</sub> S removal capacity	Limited						
Produced water handling capacity (6)	12mbl/d						
Water injection capacity	None						

(1) The design capacity of the Judy oil export system is 100,000 bbls/d from 2 booster and main oil line pumps. However there is also the ability to tie directly into the J Block Spur, then onwards to the Norpipe system. The capacity of the J Block spur line is dependant on the combined throughputs of the J Block spur and Norpipe trunkline  
 (2) There are two compression trains. With 2 trains operating the system has a total capacity of 450 mmscf/d at 25 barg suction.  
 (3) Compressor optimisation was implemented in Q2 2017, rewheeling both compression trains. Following this the system has the ability to reduce suction pressure. The nameplate capacity of 450 mmscf/d will be maintained at 25 barg suction, with the potential for a capacity of circa 280 mmscf/d at a lowest suction pressure of 15.5barg .  
 (4) Gas is available at compressor second stage discharge pressure, typically about 150 barg however there are currently no gas lift facilities  
 (5) Achieves a maximum water content of 15kg per million cubic metres  
 (6) Produced water is separated at the LP separator, the system has a hydraulic capacity of 12,000 bbl/day. Treatment is by cyclones, compact flotation unit and a degasser. There are no reinjection facilities  
 Please note, modifications required on Judy for new business may be limited due to facilities constraints

**Contact information**

For further enquiries regarding the above please contact Simon Taylor, JV Manager, Tel 01224 205546, Email simon.d.taylor@conocophillips.com  
 Last Update: Feb-18

**Note:** The information provided above is given by ConocoPhillips Petroleum Company U.K. Limited ("ConocoPhillips") in its capacity as operator of the infrastructure. The information is given in good faith and without liability. The information indicates available capacity at the Last Update but no warranty is given in relation to the accuracy of the information. ConocoPhillips reserve the right to alter information provided in relation the infrastructure at any time and without notice. Parties using the information provided therefore do so at their own risk. The information relating to the availability of capacity in the infrastructure is provided on a "subject to contract" basis.



## Jade




















High level capacity information & infrastructure specific information for prospective users

### Infrastructure Information

Description:	Jade Facility (HP/HT wells)
Facility	The Jade facility is a NUI which is 17kms north of the Judy Host Facility. Connected to Judy via a subsea pipeline Potential tie-in at Jade topsides or pipeline All processing of Jade hydrocarbons takes place on the Judy Facility. All operations are controlled from Judy
Entry Specification:	The entry specification for any future third party production is dependent upon the point at which such production would enter the Jade facilities and the composition of production already being processed at that time. The entry specification will cover areas that affect onward processing & transportation as well as those which impact the Jade & Judy facilities e.g. slugging limitations and contaminants
Exit Specification:	Need to meet the Jade/Judy TPA Delivery Specifications For liquid and gas exit specifications ex processing on Judy see Judy ICOP Page

### High Level Capacity Information

The basic capacity information is portrayed by colour coded 'traffic lights' that reflect thresholds of availability over the next 5 years

Available Capacities	 > 25%	 5% to 25%	 < 5%	 Unknown/None			
Description	Capacity	Ullage as % of system capacity				Comments	
		2018	2019	2020	2021	2022	
Jade HP Separator processing Capacity (Gas) (1)	123 mmscf/d						
Jade HP Separator processing Capacity (Liquids) (1)	45mbbls/d						
Gas compression capacity (2)	None located on Jade						
Gas treatment capacity (2)	None located on Jade						
Gas lift capacity (2)	None located on Jade						
Dehydration capacity (2)	None located on Jade						
H <sub>2</sub> S removal capacity (2)	None located on Jade						
Water processing capacity (1)	4mbbls/d						

(1) At 30bar. Jade HP Separator is located on Judy. Capacity was reduced when separator went down to 15.5 bar in Q2 2017

(2) Refer to Judy datasheet for treatment capacity as all Jade gas is treated on Judy platform

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