



**BALLERA TO WALLUMBILLA NATURAL GAS
PIPELINE
(South West Queensland Pipeline)**

**2007 REVISED ACCESS ARRANGEMENT
INFORMATION**

APPENDIX 1

DESCRIPTION OF THE SWQP SYSTEM

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1. INTRODUCTION

The SWQP is described in Section 2 in terms of the boundaries of the transmission pipeline system between Ballera and Wallumbilla. These boundaries are defined by the receipt points and the delivery points.

Section 3 describes the major component parts of the SWQP.

Section 4 provides the route map for the SWQP.

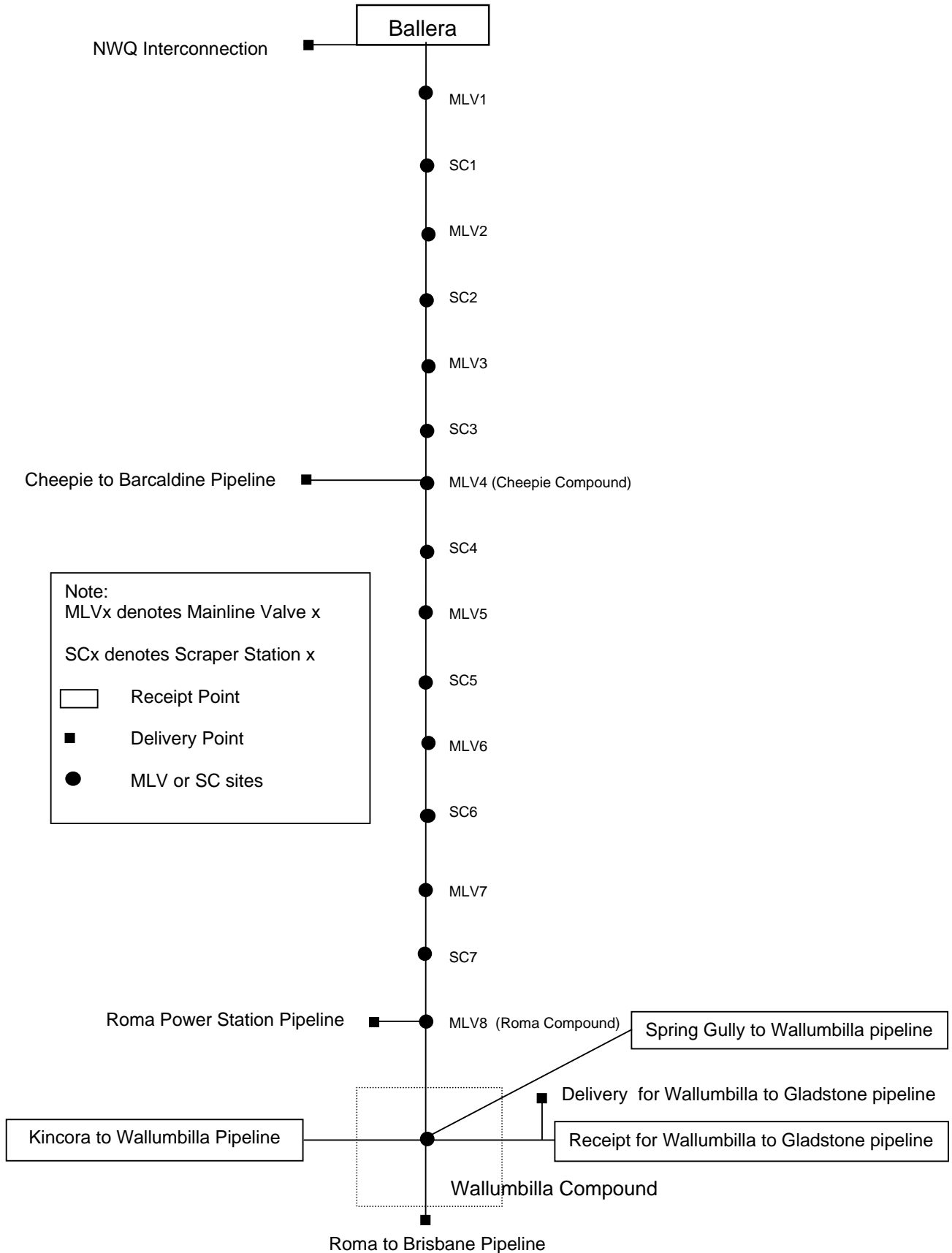
2. DESCRIPTION OF THE GAS TRANSMISSION SYSTEM: RECEIPT POINTS AND DELIVERY POINTS

The schematic on the following page describes the SWQP in terms of its receipt and delivery points.

For the purposes of this System Description:

“receipt point” means a flange or joint or other point specified in an Gas Transportation Agreement as the point at which the shipper delivers gas to Epic Energy under the Gas Transportation Agreement. Table 1 defines each of the receipt points in the gas transmission system.

“delivery point” means a flange or joint, notional delivery point or other point specified in a Gas Transportation Agreement as a point at which Epic Energy delivers gas to the shipper under the Shipper’s Gas Transportation Agreement. Table 2 defines each of the delivery points.



2.1 RECEIPT POINTS

The SWQP has two major Gas Receipt Terminals with gas receipt from four different gas sources. These terminals are located at Ballera and Wallumbilla.

At the Ballera Gas Receipt Terminal, gas is input from the South West Queensland Producers.

At the Wallumbilla Receipt Terminal, gas is input from Users of the transmission pipelines known as the Spring Gully Pipeline, Kincora Pipeline and the Wallumbilla to Gladstone Pipeline. The input from the Spring Gully Pipeline is from the Spring Gully coal seam gas fields, the input from the Kincora Pipeline is from the Kincora gas plant, and the input from the Wallumbilla to Gladstone Pipeline is back-haul flow from the Wallumbilla to Gladstone pipeline from various producers.

TABLE 1
GAS TRANSMISSION SYSTEM: RECEIPT POINTS

LOCATION	DISTANCE FROM BALLERA (Pipeline kilometres)	DESCRIPTION
Ballera	0.000	<ul style="list-style-type: none"> Receipt point for South West Queensland gas
Wallumbilla	755.560	<ul style="list-style-type: none"> Receipt point for interconnection with Spring Gully Pipeline.
Wallumbilla	755.560	<ul style="list-style-type: none"> Receipt point for interconnection with Kincora Pipeline.
Wallumbilla	755.560	<ul style="list-style-type: none"> Receipt point for the Wallumbilla to Gladstone Pipeline

2.2 DELIVERY POINTS

The SWQP has four Gas Delivery Terminals. These terminals are located at:

- NWQ Interconnection at Ballera – the Delivery Point is the upstream flange of the interconnection facility. The interconnection facility itself is not part of the Covered Pipeline.
- Cheepie compound located at MLV4
- Roma Compound located at MLV8
- Wallumbilla Terminal located at the end terminal of the SWQP

At Ballera, gas can be delivered to the North West Queensland pipeline to Mt Isa (subject to sufficient pressure differential between the SWQP and the North West Queensland Pipeline), although the interconnect itself is not part of the Covered Pipeline.

At Cheepie Compound, gas is delivered to the Cheepie to Barcaldine pipeline for delivery to the Barcaldine Power Station.

At Roma Compound, gas is delivered to the Roma Power Station pipeline for delivery to the Roma Power Station.

At Wallumbilla Terminal, gas is delivered to the Roma to Brisbane pipeline and the Wallumbilla to Gladstone pipeline.

TABLE 2
GAS TRANSMISSION SYSTEM: DELIVERY POINTS

LOCATION	DISTANCE FROM BALLERA (Pipeline Kilometres)	DESCRIPTION
Ballera	0	Delivery point for North West Queensland Interconnection – the delivery point is upstream of the inlet flange for the North West Queensland Interconnection facility
MLV4 (Cheepie Compound)	335.110	Delivery point for the supply of gas to the Cheepie to Barcaldine Pipeline
MLV8 (Roma Compound)	710.743	Delivery point for the supply of gas to the Roma Power Station pipeline.
Wallumbilla Compound	755.560	Delivery point for the supply of gas to the Roma to Brisbane pipeline.
Wallumbilla Compound	755.560	Delivery point for the supply of gas to the Wallumbilla to Gladstone pipeline

3. DESCRIPTION OF THE SWQP: COMPONENT PARTS

As at the date of commencement of this Access Arrangement, the principal component parts of the SWQP are:

- (a) the main line between Ballera and Wallumbilla;
- (b) main line valves;
- (b) scraper stations, including check valves, pig launchers and receivers;
- (c) receipt and delivery stations, including metering and flow control facilities;
- (d) supervisory control and data acquisition (SCADA) system and the associated communications facility.

General Description

The SWQP comprises 755.560km of high pressure gas transmission pipeline, including associated mainline valve sites and scraper stations, linking gas suppliers in the Cooper Basin to Wallumbilla.

The SWQP is 755.560km of 400mm (16 inch) diameter pipe, and is rated and operates at 14.920MPa (MAOP).

The pipeline system has eight (8) remote mainline valve sites and seven (7) remote scraper stations. The scraper stations are similar to mainline valve sites but with pig launcher and receiver facilities.

At Scraper Station 7 (about 666km from Ballera), the mainline pressure is regulated to between 10.0MPa to 11.0MPa. This allows gas temperature to stabilise before delivery to the Wallumbilla terminal.

The main pipeline material is graded API 5L X65. The pipe is externally coated with a 350 micron fusion bonded epoxy powder coating. Further corrosion protection is provided by an impressed current cathodic protection system. The physical characteristics of the main line are set out in Table 3.

TABLE 3
MAIN LINE: PHYSICAL CHARACTERISTICS

MAINLINE VALVES AND SCRAPER	DISTANCE FROM BALLERA (Pipeline Kilometres)	NOMINAL OUTSIDE DIAMETER (mm)	NOMINAL WALL THICKNESS (mm)
Ballera	0	406	9.4
MLV1	46.155	406	9.4
SS1	96.811	406	9.4
MLV2	152.072	406	9.4
SS2	193.466	406	9.4
MLV3	226.852	406	9.4
SS3	288.683	406	9.4
MLV4	334.919	406	9.4
SS4	382.844	406	9.4
MLV5	420.324	406	9.4
SS5	476.686	406	9.4
MLV6	534.441	406	9.4
SS6	572.575	406	9.4
MLC7	626.783	406	9.4
SS7	666.398	406	9.4
MLV8	710.578	406	9.4
Wallumbilla	755.560	406	9.4

SCADA System

As at the date of the commencement of this access arrangement, the SWQP SCADA system comprises of the Valmet ROS and an Intelution PC. The Intelution PC collects data from all master stations, mainline valves and scraper stations for local control and indications. This SCADA system is coupled with the Valmet SCADA system linking the Moomba to Adelaide Pipeline Valmet system and controlled from the Epic Energy Head Office Control Centre in Melbourne.

4. PIPELINE ROUTE MAPS

Pipeline route maps are provided as Appendix 2.