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GOVERNMENT NOTICES

COMMONWEALTH OF AUSTRALIA

Sections 226 and 708
Offshore Petroleum and Greenhouse Gas Storage Act 2006

APPLICATION FOR VARIATION OF A PIPELINE LICENCE – PIPELINE LICENCE WA-31-PL

I, **STEVEN ROBERT TAYLOR**, the Delegate of the National Offshore Petroleum Titles Administrator, on behalf of the Commonwealth–Western Australia Offshore Petroleum Joint Authority hereby give notice pursuant to sections 226 and 708 of the *Offshore Petroleum and Greenhouse Gas Storage Act 2006* that an application has been received from

Woodside Energy Ltd.
(ACN 005 482 986)

BP Developments Australia Pty. Ltd.
(ACN 081 102 856)

Chevron Australia Pty Ltd
(ACN 086 197 757)

Japan Australia LNG (MIMI) Pty. Ltd.
(ACN 006 303 180)

Shell Australia Pty Ltd
(ACN 009 663 576)

Woodside Energy (North West Shelf) Pty Ltd
(ACN 004 514 489)

for the variation of Pipeline Licence WA-31-PL in the offshore area of Western Australia, as set out below.

Pursuant to subsection 226(3) of the Act, a person may make a written submission to the Titles Administrator about this application within 30 days from the date of this notice.

This notice takes effect on the day on which it appears in the *Australian Government Gazette.*

Made under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006* of the Commonwealth of Australia.

STEVEN ROBERT TAYLOR
DELEGATE OF THE TITLES ADMINISTRATOR
ON BEHALF OF THE COMMONWEALTH–WESTERN AUSTRALIA
OFFSHORE PETROLEUM JOINT AUTHORITY

APPLICATION FOR VARIATION OF PIPELINE LICENCE WA-31-PL

The application seeks to effect the following amendments to the licence:

1. The Route of The Pipeline is varied by deleting all the current text and replacing with the following:

*"The pipeline route commences at the Universal Connection System (UCON) connector face on the flexible flowline downstream of the Lambert Deep manifold and finishes at the flange face upstream of the riser emergency shutdown valve (RESDV) on the Angel Platform. Features of the route are described in the table hereunder and the route is further described in the attached route map (**Attachment 1**). The pipeline licence route corridor extends ± 40 m either side of the provided route. Coordinates are provided to the Geodetic Datum of Australia (GDA94), UTM Zone 50."*

Main Halyard Flowline System Co-Ordinates				
	Feature Name	***KP***	***Easting (m)***	***Northing (m)***
1.	*UCON Connector face at LD Manifold*	*0.0*	*445 763*	*7 850 743*
2.	*MLC-15*	*0.997*	*446 474*	*7 850 255*
3.	*MLC-14*	*1.993*	*447 281*	*7 849 687*
4.	*MLC-13*	*2.988*	*448 090*	*7 849 128*
5.	*MLC-12*	*3.985*	*448 904*	*7 848 555*
6.	*MLC-11*	*4.987*	*449 719*	*7 847 982*
7.	*MLC-10*	*5.978*	*450 534*	*7 847 410*
8.	*MLC-09*	*6.972*	*451 347*	*7 846 838*
9.	*MLC-08*	*7.783*	*451 915*	*7 846 270*
10.	*MLC-07*	*8.954*	*452 478*	*7 845 696*
11.	*MLC-06*	*9.403*	*453 144*	*7 845 235*
12.	*MLC-05*	*10.284*	*453 874*	*7 844 743*
13.	*MLC-04*	*11.166*	*454 601*	*7 844 245*
14.	*MLC-03*	*12.050*	*455 362*	*7 843 808*
15.	*MLC-02*	*12.930*	*456 221*	*7 843 928*
16.	*MLC-01*	*13.811*	*457 079*	*7 844 088*
17.	*AP2 flowline crossing*	*14.529*	*457 775*	*7 844 017*
18.	*AP2 umbilical crossing*	*14.544*	*457 786*	*7 844 007*
19.	*J-tube bellmouth*	*14.587*	*457 814*	*7 843 975*

2. Under Specifications, the Design and Construction is varied by deleting all the current text and replacing with the following:

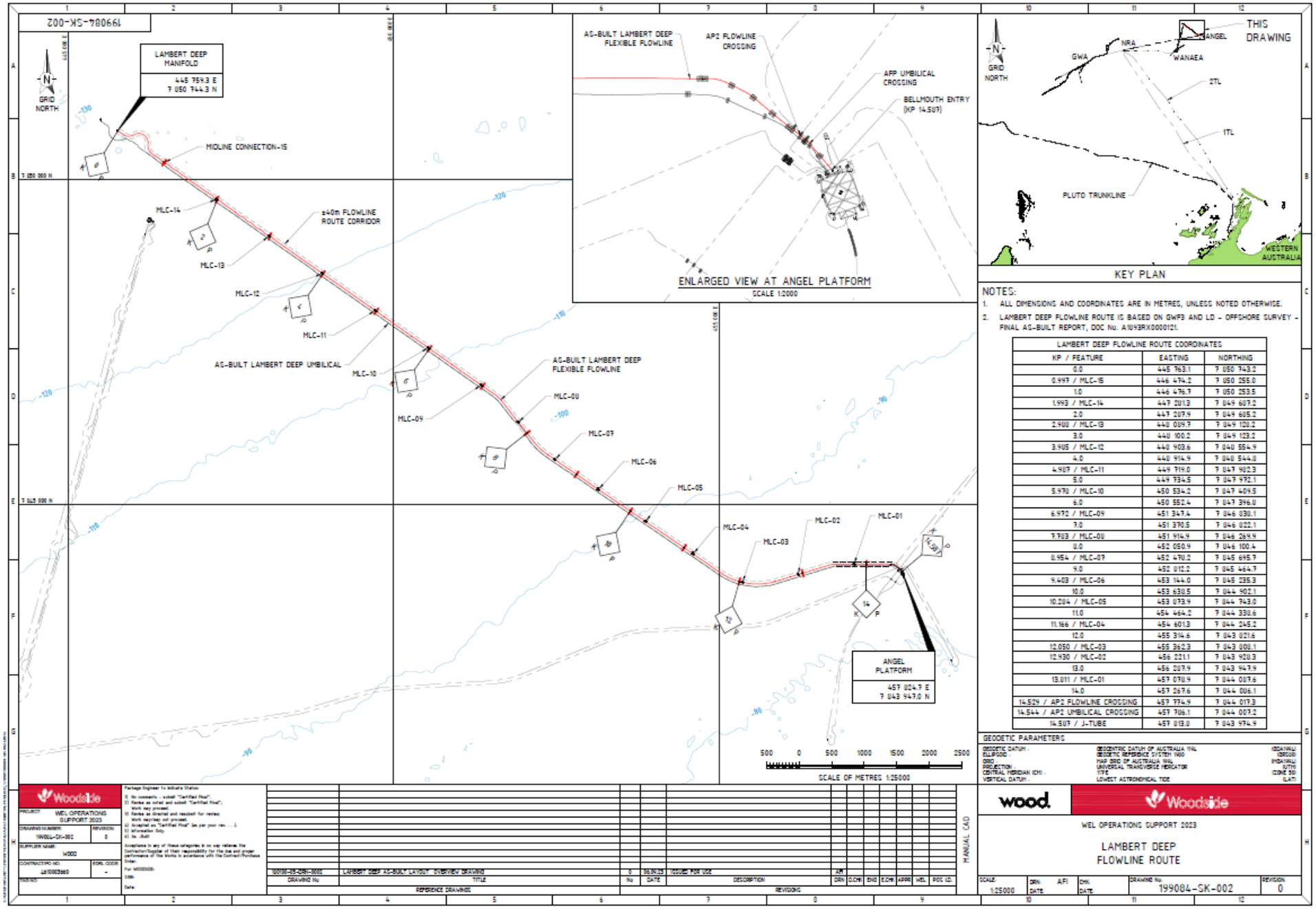
Design and Construction

"The offshore pipeline is of flexible construction and as such is designed and constructed according to the international standard ISO 13628-1, "Design and operation of subsea production systems – Part 1: General requirements and recommendations", as is permitted by Clause 2.2 of AS2885 Part 4. The rigid topside piping on the Angel Platform that forms part of the pipeline is designed and constructed according to the Australian standard AS 2885.4."

3. Under Specifications, the Basis of Design is varied by updating the items in bold and italics:

Item	Item Description	Details
1	***Inside*** diameter of pipe and riser	254 mm (10 inches)
2	Wall thickness of flowline and riser section	Light weight (KP 0 to ***6.972***): 55.2 mm Heavy weight (KP ***6.972*** to ***9.403***): 60.8 mm Medium weight ***and riser*** (***KP 9.403*** to ***riser hang-off***): 59.3 mm
3	Length	14.7 km ***to RESDV***
4	Design life	20 years
5	Pipeline ***Construction***	***Unbonded Flexible Pipe***
6	Pipeline and Riser ***Material*** Grade	***Carcass Layer (process wetted): AISI 316L*** ***Pressure Sheath (light and heavy weight): TP 37*** ***Pressure Sheath (medium weight and riser): TP 35*** ***Various other steel and polymer materials are applied to complete the flexible cross section.***
7	Pipeline Specification	***Subsea flexible: Unbonded Flexible Pipe to API 17J*** ***Topside rigid piping: AS 2885.4 / DNVGL-ST-F101***
8	Minimum yield strength of pipe steel	***Various steel yield strengths are adopted within the flexible cross section.***
9	***Pipeline System*** Pressure	***MAOP:*** 19.5 MPa(a) (19.4 MPag) ***Maximum Design: 31.8 MPa(a)*** ***Minimum Design: 0 MPa(a)***
10	Design Capacity	180 MMscf/d
11	Maximum Design Temperature	115 º C
12	Minimum Design Temperature	-30 º C
13	Operating temperature range	Maximum: ***115 º C (Inlet condition)*** Minimum: 21.3 º C (***Arrival condition***)
14	Characteristics of substance proposed to be conveyed	Gas ***and condensate***
15	General plans and descriptions of pump stations, tank stations or valve stations and their equipment	***A two slot CRA Lambert Deep Manifold is installed immediately upstream of KP 0.0 which is nominated as a terminal station.***
16	General plans and description of pigging facilities	N/A
17	Cathodic Protection	Al-Zn-In sacrificial bracelet anodes Monitoring via ROV or AUV survey
18	Hydrate Management	Insulation and MEG injection

Attachment 1



LAMBERT DEEP FLOWLINE ROUTE COORDINATES

KP / FEATURE	EASTING	NORTHING
0.0	445 763.1	7 050 743.2
0.997 / MLC-15	446 474.2	7 050 255.0
1.0	446 476.7	7 050 253.5
1.993 / MLC-14	447 201.3	7 049 687.2
2.0	447 207.9	7 049 685.2
2.900 / MLC-13	448 009.7	7 049 120.2
3.0	448 100.2	7 049 123.2
3.905 / MLC-12	448 903.6	7 048 554.9
4.0	448 914.9	7 048 544.8
4.907 / MLC-11	449 719.0	7 047 982.3
5.0	449 734.5	7 047 972.1
5.970 / MLC-10	450 534.2	7 047 409.5
6.0	450 552.4	7 047 396.0
6.972 / MLC-09	451 347.4	7 046 838.1
7.0	451 370.5	7 046 822.1
7.703 / MLC-08	451 914.9	7 046 269.9
8.0	452 050.9	7 046 100.4
8.954 / MLC-07	452 470.2	7 045 695.7
9.0	452 812.2	7 045 464.7
9.403 / MLC-06	453 144.0	7 045 235.3
10.0	453 638.5	7 044 902.1
10.204 / MLC-05	453 873.4	7 044 743.0
11.0	454 464.2	7 044 338.6
11.166 / MLC-04	454 601.3	7 044 245.2
12.0	455 314.6	7 043 821.6
12.050 / MLC-03	455 362.3	7 043 808.1
12.930 / MLC-02	456 221.1	7 043 920.3
13.0	456 287.9	7 043 947.9
13.011 / MLC-01	457 078.9	7 044 087.6
14.0	457 267.6	7 044 006.1
14.529 / AP2 FLOWLINE CROSSING	457 774.9	7 044 017.3
14.544 / AP2 UMBILICAL CROSSING	457 786.1	7 044 007.2
14.507 / J-TUBE	457 813.8	7 043 974.9