



COMMONWEALTH OF AUSTRALIA

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

**APPLICATION FOR VARIATION OF A PIPELINE LICENCE
(PIPELINE LICENCE NT/PL5)**

I, **GRAEME ALBERT WATERS**, the National Offshore Petroleum Titles Administrator, on behalf of the Commonwealth–Northern Territory 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

Santos NA Barossa Pty Ltd
(ACN 109 974 932)

SK E&S Australia Pty Ltd
(ACN 158 702 071)

Santos Offshore Pty Ltd
(ACN 005 475 589)

JERA Barossa Pty Ltd
(ACN 654 004 387)

for the variation of Pipeline Licence NT/PL5 in the offshore area of Northern Territory,
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.

GRAEME ALBERT WATERS
TITLES ADMINISTRATOR
ON BEHALF OF THE COMMONWEALTH–NORTHERN TERRITORY
OFFSHORE PETROLEUM JOINT AUTHORITY

**APPLICATION FOR VARIATION OF
PIPELINE LICENCE NT/PL5**

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 is described in the table hereunder and displayed in the attached map (**Attachment 1**), commencing at the GEP Spool Tie-in to Riser Base Manifold (Face of Hub) and ending at the Face of the PLET Hub.

Point	KP	Easting (mE)	Northing (mN)	Bend Radius (m)
GEP Spool Tie-in to RBM (Face of Hub)	—	638 580.7	8 914 074.5	—
Face of PLET Hub	0.071	638 539.0	8 914 135.0	—
TP1A	3.865	634 811.8	8 913 427.7	—
IP1	—	633 986.7	8 913 271.1	4750
TP1B	5.527	633 265.3	8 912 841.1	—
TP2A	8.046	631 101.8	8 911 551.4	—
IP2	—	628 316.5	8 909 891.2	4500
TP2B	13.665	629 010.0	8 906 723.7	—
TP3A	25.27	631 491.7	8 895 387.7	—
IP3	—	631 623.5	8 894 785.5	5000
TP3B	26.497	631 605.1	8 894 169.4	—
TP4A	27.291	631 581.5	8 893 375.4	—
IP4	—	631 545.2	8 892 159.8	5000
TP4B	29.677	632 071.3	8 891 063.4	—
TP5aA	35.075	634 406.6	8 886 196.7	—
IP5a	—	634 471.7	8 886 061.0	5000
TP5aB	35.376	634 544.8	8 885 929.6	—
TP5bA	35.803	634 752.5	8 885 556.1	—
IP5b	—	634 817.5	8 885 439.1	5000
TP5bB	36.071	634 876.3	8 885 318.8	—
TP6aA	38.315	635 860.6	8 883 301.7	—
IP6a	—	636 119.4	8 882 771.4	5000
TP6aB	39.49	636 247.6	8 882 195.4	—
TP6bA	39.689	636 290.9	8 882 001.2	—
IP6b	—	636 303.7	8 881 943.7	5000
TP6bB	39.807	636 315.1	8 881 886.0	—
TP6cA	40.425	636 435.3	8 881 279.1	—
IP6c	—	636 444.7	8 881 231.8	5000
TP6cB	40.522	636 453.1	8 881 184.3	—
TP7A	66.125	640 941.8	8 855 977.7	—
IP7	—	641 346.7	8 853 703.9	18000
TP7B	70.719	641 164.5	8 851 401.5	—
TP8A	81.984	640 275.5	8 840 171.1	—
IP8	—	640 212.1	8 839 370.4	5000
TP8B	83.577	640 402.7	8 838 590.1	—
TP9A	83.966	640 495.0	8 838 212.1	—
IP9	—	640 802.1	8 836 955.0	5000
TP9B	86.499	640 460.8	8 835 706.8	—

TP10A	88.944	639 815.8	8 833 348.4	—
IP10	—	639 693.3	8 832 900.4	5000
TP10B	89.87	639 655.4	8 832 437.5	—
TP11A	93.148	639 387.9	8 829 170.3	—
IP11	—	639 359.0	8 828 817.3	10000
TP11B	93.856	639 355.2	8 828 463.1	—
TP12A	107.876	639 202.7	8 814 444.6	—
IP12	—	639 179.4	8 812 306.3	10000
TP12B	112.089	638 283.7	8 810 364.6	—
TP13A	119.351	635 241.8	8 803 770.4	—
IP13	—	633 433.5	8 799 850.4	35000
TP13B	127.942	630 727.0	8 796 487.3	—
TP14A	142.062	621 873.8	8 785 486.6	—
IP14	—	619 890.1	8 783 021.8	40000
TP14B	148.377	618 318.6	8 780 275.8	—
TP15A	166.547	609 293.6	8 764 505.5	—
IP15	—	608 355.2	8 762 865.7	10000
TP15B	170.282	608 079.7	8 760 996.5	—
TP16A	183.778	606 112.0	8 747 644.7	—
IP16	—	606 071.5	8 747 369.7	10000
TP16B	184.333	606 046.3	8 747 092.9	—
TP17A	194.156	605 156.2	8 737 311.0	—
IP17	—	605 111.5	8 736 819.6	10000
TP17B	195.142	605 115.4	8 736 326.2	—
TP18A	202.272	605 171.4	8 729 196.6	—
IP18	—	605 171.7	8 729 156.7	3200
TP18B	202.351	605 171.0	8 729 116.8	—
TP19A	204.905	605 127.4	8 726 563.5	—
IP19	—	605 124.9	8 726 419.7	3200
TP19B	205.192	605 109.6	8 726 276.8	—
TP20A	205.541	605 072.4	8 725 929.9	—
IP20	—	605 053.2	8 725 751.5	3200
TP20B	205.9	605 054.1	8 725 572.1	—
TP21A	207.348	605 061.5	8 724 123.7	—
IP21	—	605 062.2	8 723 994.2	3200
TP21B	207.607	605 073.3	8 723 865.2	—
TP22A	208.544	605 153.8	8 722 931.4	—
IP22	—	605 169.7	8 722 747.1	3200
TP22B	208.914	605 164.3	8 722 562.2	—
TP23A	211.125	605 099.1	8 720 352.1	—
IP23	—	605 096.3	8 720 258.2	3200
TP23B	211.313	605 099.0	8 720 164.4	—
TP24A	211.83	605 114.1	8 719 647.4	—
IP24	—	605 118.2	8 719 508.7	3200
TP24B	212.107	605 134.3	8 719 370.8	—
TP25A	212.267	605 152.7	8 719 212.2	—
IP25	—	605 197.1	8 718 830.9	3200
TP25B	213.031	605 150.1	8 718 450.0	—
TP26A	213.263	605 121.6	8 718 219.5	—
IP26	—	605 105.9	8 718 092.4	3200
TP26B	213.519	605 100.4	8 717 964.5	—
TP27A	213.945	605 082.1	8 717 538.6	—
IP27	—	605 076.4	8 717 404.8	3200
TP27B	214.213	605 081.9	8 717 271.0	—

TP28A	215.256	605 124.4	8 716 229.0	—
IP28	—	605 125.1	8 716 211.0	3200
TP28B	215.292	605 126.0	8 716 193.0	—
TP29A	216.359	605 181.6	8 715 127.1	—
IP29	—	605 187.1	8 715 020.7	3200
TP29B	216.572	605 185.6	8 714 914.1	—
TP30A	217.255	605 175.6	8 714 231.4	—
IP30	—	605 175.1	8 714 194.7	3200
TP30B	217.329	605 175.4	8 714 158.1	—
TP31A	220.19	605 199.3	8 711 296.7	—
IP31	—	605 199.5	8 711 273.6	3200
TP31B	220.236	605 199.4	8 711 250.5	—
TP32A	223.149	605 181.7	8 708 338.1	—
IP32	—	605 181.3	8 708 279.6	3200
TP32B	223.266	605 183.1	8 708 221.2	—
TP33A	225.183	605 241.5	8 706 305.1	—
IP33	—	605 245.0	8 706 189.6	3200
TP33B	225.414	605 240.2	8 706 074.2	—
TP34A	226.22	605 206.6	8 705 268.6	—
IP34	—	605 157.5	8 704 092.4	3200
TP34B	228.476	604 357.9	8 703 228.4	—
TP35A	229.41	603 723.3	8 702 542.8	—
IP35	—	602 658.1	8 701 391.8	3200
TP35B	232.327	602 915.2	8 699 844.7	—
TP36A	232.685	602 973.9	8 699 491.3	—
IP36	—	602 985.3	8 699 422.6	3200
TP36B	232.824	602 993.7	8 699 353.5	—
TP37A	234.613	603 209.9	8 697 577.2	—
IP37	—	603 275.9	8 697 035.3	3200
TP37B	235.695	603 158.5	8 696 502.2	—
TP38A	236.127	603 065.6	8 696 080.3	—
IP38	—	603 037.2	8 695 951.6	3200
TP38B	236.39	602 998.4	8 695 825.7	—
TP39A	240.77	601 707.8	8 691 640.2	—
IP39	—	601 668.3	8 691 512.0	3200
TP39B	241.038	601 639.7	8 691 381.0	—
TP40A	243.005	601 219.4	8 689 459.6	—
IP40	—	601 102.7	8 688 925.8	3200
TP40B	244.087	600 815.5	8 688 461.0	—
TP41A	245.942	599 840.7	8 686 883.5	—
IP41	—	599 693.3	8 686 645.1	3200
TP41B	246.501	599 589.7	8 686 384.7	—
TP42aA	247.327	599 284.4	8 685 617.6	—
IP42a	—	599 081.9	8 685 109.0	3200
TP42aB	248.411	599 060.1	8 684 562.0	—
TP43A	249.396	599 020.7	8 683 577.9	—
IP43	—	599 015.1	8 683 436.8	3200
TP43B	249.678	599 021.9	8 683 295.7	—
TP44A	250.838	599 077.9	8 682 137.2	—
IP44	—	599 087.5	8 681 938.6	3200
TP44B	251.235	599 072.4	8 681 740.4	—
TP45A	252.577	598 970.8	8 680 402.2	—
IP45	—	598 942.7	8 680 031.9	3200
TP45B	253.316	599 000.1	8 679 665.2	—

TP46A	253.433	599 018.1	8 679 549.9	—
IP46	—	599 056.4	8 679 305.3	3200
TP46B	253.927	599 056.6	8 679 057.7	—
TP47A	255.42	599 057.7	8 677 564.6	—
IP47	—	599 057.8	8 677 465.8	3200
TP47B	255.618	599 051.8	8 677 367.2	—
TP48A	258.333	598 886.3	8 674 657.0	—
IP48	—	598 883.1	8 674 604.7	3200
TP48B	258.438	598 881.6	8 674 552.4	—
TP49A	261.208	598 803.3	8 671 783.7	—
IP49	—	598 803.0	8 671 772.9	3200
TP49B	261.229	598 802.8	8 671 762.1	—
End of Pipeline (Face of PLET Hub)	262.219	598 781.5	8 670 772.5	—

Coordinates above are based on GDA94 / MGA Zone 52.

SPECIFICATIONS

- The Schedule under Specifications, Basis of Design table is varied by updating the items in bold and italics:

Basis of Design

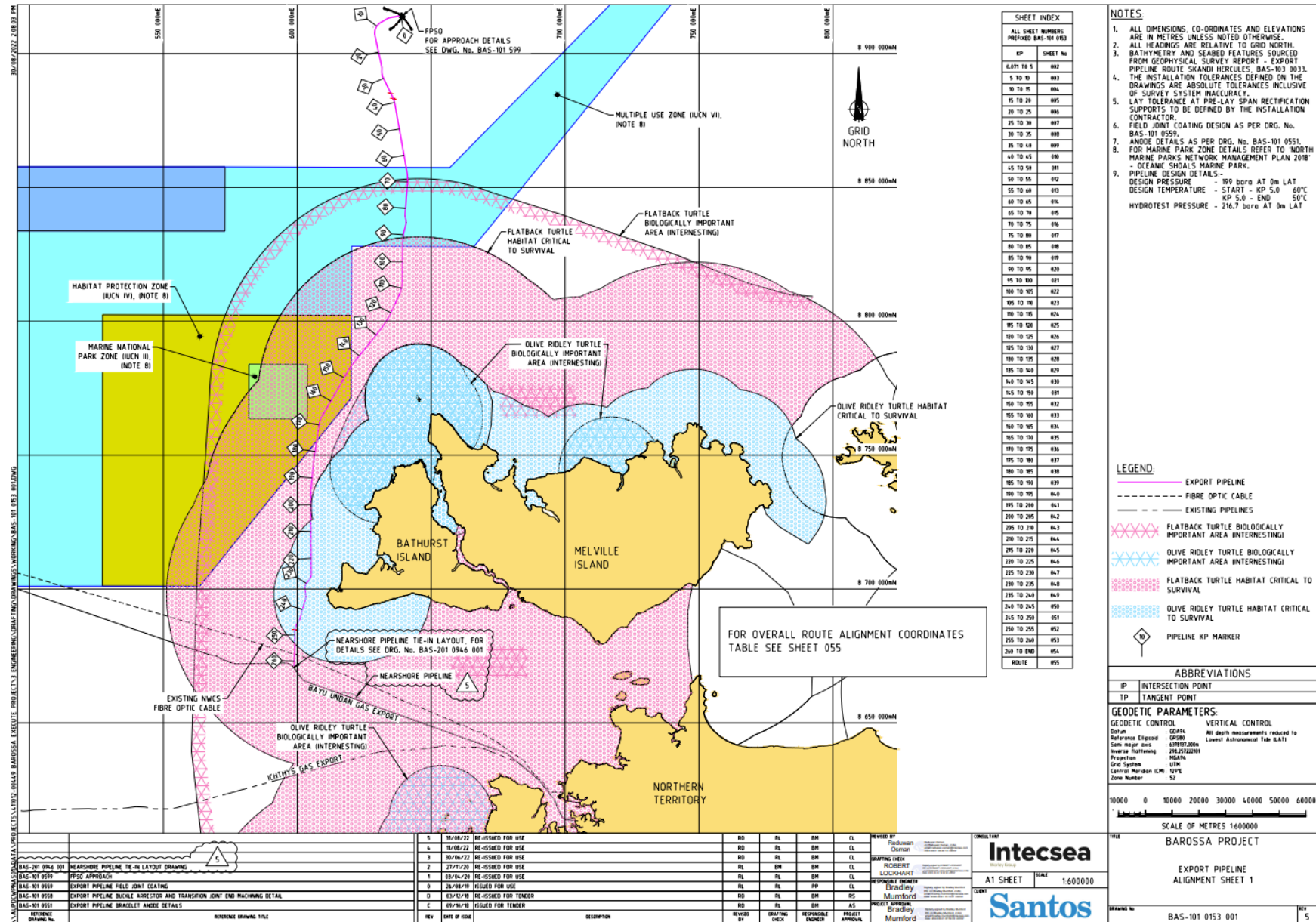
The pipeline design is based on the following parameters:

Item	Item Description	Details
1	Outside diameter of pipe	26 inches nominal
2	Wall thickness of pipe	23.6 mm and 19.7 mm (23.6 mm wall thickness pipe is utilised adjacent to the facility to meet Location Class requirements. 23.6 mm is also utilised in areas subject to spanning to optimise the span design.
3	Length	262 km (approximate)
4	Design life	25 years (approximate)
5	Pipeline Material	Steel
6	Pipeline Steel Grade	Grade 450
7	<i>Pipeline Specification</i>	<i>DNVGL SAWL 450 F D S (U in specified regions)</i>
8	Minimum yield strength of pipe steel	450 MPa
9	Maximum Allowable Incidental Pressure	20.8 MPag
10	<i>Design Capacity</i>	<i>730 MMscf/d</i>
11	Maximum Design Temperature	60° C
12	Minimum Design Temperature	0° C
13	Characteristics of substance proposed to be conveyed	Dehydrated natural gas
14	General plans and descriptions of pump stations, tank stations or valve stations and their equipment	N/A
15	General plans and description of pigging facilities	The pipeline is designed to enable operational inspection pigging to be performed if required based on a risk-based inspection regime. The riser base manifold is equipped with a full bore connection point, isolated by two 26-inch valves, to facilitate the installation and removal of a subsea pig launcher by diverless means.

		The riser base manifold, spools, pipeline and tie-in to the existing Bayu-Undan pipeline are designed to facilitate through pigging to the onshore pig receipt facilities at DLNG.
16	Cathodic Protection	Aluminium-Zinc-Indium Anodes DNVGL-RP-F103 Typically spaced at 1 anode every 8 pipe joints.
17	Hydrate Management	Hydrate management in the gas export pipeline is not required as the pipeline is classified as a dry gas pipeline.

3. The NT/PL5 Pipeline Route Map at Annexure A is deleted and replaced with the map at **Attachment 1**.

Attachment 1



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EXPORT PIPELINE ROUTE ALIGNMENT TABLE						
POINT	EASTING	NORTHING	KP	HEADING	BEND RADIUS (m)	STRAIGHT (m)
KP 0.071 (FACE OF HUB)	838 539.00	8 914 125.00	0.071	259.25	-	3794
TP1A	834 811.80	8 913 427.68	3.805	-	-	-
IP1	833 986.70	8 913 275.10	-	-	4.750	-
TP1B	833 265.32	8 912 841.10	5.527	239.20	-	2519
TP2A	831 901.75	8 911 551.43	8.064	-	-	-
IP2	828 736.50	8 909 891.20	-	-	4.500	-
TP2B	829 889.95	8 906 723.87	10.665	-	-	-
TP3A	837 491.67	8 895 387.65	25.270	167.65	-	18605
IP3	837 623.50	8 894 785.56	-	-	5000	-
TP3B	837 605.13	8 894 169.36	26.477	-	-	-
TP4A	837 581.64	8 893 375.42	27.291	181.71	-	794
IP4	837 545.20	8 892 939.80	-	-	5000	-
TP4B	832 071.36	8 891 063.37	29.677	-	-	-
TP5A	834 486.57	8 886 786.67	35.075	154.37	-	5398
IP5	834 471.70	8 886 061.00	-	-	5000	-
TP5B	834 564.76	8 885 929.58	35.376	-	-	-
TP6A	834 752.47	8 885 556.09	35.893	150.92	-	427
IP6	834 807.50	8 885 439.70	-	-	5000	-
TP6B	834 876.25	8 885 398.78	36.073	-	-	-
TP6A	835 866.59	8 883 381.71	38.375	151.99	-	2214
IP6	836 194.40	8 882 773.60	-	-	5000	-
TP6B	836 247.63	8 882 995.36	39.490	167.45	-	199
TP6A	836 290.85	8 882 001.20	39.689	-	-	-
IP6	836 383.78	8 881 943.70	-	-	5000	-
TP6B	836 315.69	8 881 085.95	39.887	168.80	-	618
TP6A	836 435.28	8 881 279.67	40.425	-	-	-
IP6	836 444.70	8 881 231.80	-	-	5000	-
TP6B	836 453.90	8 881 084.31	40.522	169.10	-	25603
TP7A	840 842.81	8 895 877.88	46.925	-	-	-
IP7	843 346.78	8 893 783.90	-	-	10000	-
TP7B	843 164.47	8 891 401.53	76.719	184.53	-	10265
TP8A	840 275.48	8 868 171.31	81.084	-	-	-
IP8	840 212.10	8 839 378.60	-	-	5000	-
TP8B	840 402.69	8 838 590.33	83.577	164.27	-	389
TP9A	840 495.04	8 838 212.87	83.966	-	-	-
IP9	840 882.10	8 836 955.00	-	-	5000	-
TP9B	840 468.75	8 835 766.78	86.499	195.29	-	2445
TP10A	839 85.81	8 833 348.18	88.944	-	-	-
IP10	839 493.38	8 832 988.60	-	-	5000	-
TP10B	839 656.68	8 832 437.49	89.870	184.68	-	3278
TP11A	839 387.51	8 829 770.34	93.948	-	-	-
IP11	839 359.06	8 828 871.36	-	-	10000	-
TP11B	839 355.95	8 828 643.10	91.854	180.62	-	16020
TP12A	839 202.66	8 814 444.57	107.876	-	-	-
IP12	839 179.40	8 812 366.30	-	-	10000	-
TP12B	838 283.67	8 810 366.56	110.089	204.76	-	7262
TP13A	835 241.78	8 803 770.75	119.351	-	-	-
IP13	833 433.50	8 799 856.60	-	-	35000	-
TP13B	830 726.95	8 796 487.32	127.942	218.83	-	14120
TP14A	821 873.75	8 785 486.62	142.662	-	-	-
IP14	819 806.10	8 783 021.00	-	-	40000	-
TP14B	818 398.62	8 780 275.79	146.377	219.78	-	18170
TP15A	809 293.63	8 764 595.51	166.567	-	-	-
IP15	808 355.20	8 762 865.70	-	-	10000	-
TP15B	808 379.74	8 760 986.54	170.282	188.38	-	12416
TP16A	806 12.03	8 747 644.88	183.778	-	-	-
IP16	806 071.50	8 747 369.70	-	-	10000	-
TP16B	806 046.31	8 747 092.89	184.333	195.20	-	1823
TP17A	805 556.21	8 737 310.07	194.156	-	-	-
IP17	805 115.50	8 736 819.60	-	-	10000	-
TP17B	805 195.38	8 736 526.21	195.942	179.55	-	7130
TP18A	805 171.39	8 729 786.23	202.272	-	-	-
IP18	805 171.39	8 729 786.70	-	-	3200	-
TP18B	805 171.02	8 729 786.78	202.351	180.98	-	2554
TP19A	805 127.36	8 726 563.65	204.995	-	-	-
IP19	805 124.90	8 726 419.70	-	-	3200	-
TP19B	805 185.57	8 726 276.78	205.182	-	-	-
TP20A	805 872.35	8 725 929.90	205.541	184.12	-	349
IP20	805 853.20	8 725 755.50	-	-	3200	-
TP20B	805 854.42	8 725 572.09	205.990	179.71	-	1448
TP21A	805 661.54	8 724 123.65	207.348	-	-	-
IP21	805 662.28	8 723 994.20	-	-	3200	-
TP21B	805 673.12	8 723 865.27	207.607	-	-	-
TP22A	805 93.82	8 722 931.36	208.544	175.87	-	937

EXPORT PIPELINE ROUTE ALIGNMENT TABLE						
POINT	EASTING	NORTHING	KP	HEADING	BEND RADIUS (m)	STRAIGHT (m)
IP22	805 168.70	8 722 741.10	-	-	3200	-
TP22B	805 164.25	8 722 563.22	208.944	181.60	-	2211
TP23A	805 099.67	8 720 352.30	210.125	-	-	-
IP23	805 094.30	8 720 258.26	-	-	3200	-
TP23B	805 099.84	8 720 164.36	210.313	178.33	-	517
TP24A	805 174.14	8 719 647.43	210.890	-	-	-
IP24	805 178.20	8 719 564.76	-	-	3200	-
TP24B	805 174.25	8 719 370.82	212.907	173.36	-	160
TP25A	805 162.72	8 719 212.16	212.967	-	-	-
IP25	805 167.10	8 719 830.90	-	-	3200	-
TP25B	805 150.06	8 718 443.97	213.031	187.64	-	232
TP26A	805 121.59	8 718 299.46	213.263	-	-	-
IP26	805 105.90	8 718 092.68	-	-	3200	-
TP26B	805 100.41	8 717 964.45	213.570	182.66	-	426
TP27A	805 082.14	8 717 538.59	213.945	-	-	-
IP27	805 078.40	8 717 446.80	-	-	3200	-
TP27B	805 081.86	8 717 270.99	214.213	177.66	-	1043
TP28A	805 125.37	8 716 229.61	215.254	-	-	-
IP28	805 125.10	8 716 211.00	-	-	3200	-
TP28B	805 126.04	8 716 181.80	215.702	177.62	-	1067
TP29A	805 181.56	8 715 971.32	216.359	-	-	-
IP29	805 187.10	8 715 820.70	-	-	3200	-
TP29B	805 185.55	8 714 946.13	216.572	180.83	-	683
TP30A	805 175.62	8 714 231.36	217.255	-	-	-
IP30	805 175.10	8 714 161.70	-	-	3200	-
TP30B	805 175.39	8 714 168.66	217.329	179.52	-	2861
TP31A	805 199.31	8 711 296.71	220.190	-	-	-
IP31	805 199.50	8 711 273.60	-	-	3200	-
TP31B	805 199.36	8 711 285.51	220.236	180.35	-	2913
TP32A	805 181.66	8 708 338.08	223.369	-	-	-
IP32	805 181.30	8 708 279.60	-	-	3200	-
TP32B	805 183.09	8 708 221.55	223.266	178.25	-	1917
TP33A	805 241.68	8 706 395.07	225.183	-	-	-
IP33	805 245.00	8 706 187.60	-	-	3200	-
TP33B	805 246.19	8 706 074.16	225.414	182.31	-	866
TP34A	805 286.57	8 705 268.56	228.220	-	-	-
IP34	805 157.50	8 704 092.60	-	-	3200	-
TP34B	804 357.00	8 703 228.44	228.476	222.78	-	934
TP35A	803 723.53	8 702 542.78	229.410	-	-	-
IP35	802 498.10	8 701 191.80	-	-	3200	-
TP35B	802 735.16	8 699 844.76	232.327	176.57	-	358
TP36A	802 973.88	8 699 491.38	232.685	-	-	-
IP36	802 985.30	8 699 422.60	-	-	3200	-
TP36B	802 993.71	8 699 353.44	232.824	173.66	-	1789
TP37A	803 209.93	8 697 577.19	234.613	-	-	-
IP37	803 275.10	8 697 075.30	-	-	3200	-
TP37B	803 158.48	8 696 562.23	235.495	182.42	-	432
TP38A	803 065.55	8 696 080.29	236.127	-	-	-
IP38	803 037.20	8 695 951.60	-	-	3200	-
TP38B	802 998.30	8 695 825.71	236.390	187.14	-	4380
TP39A	801 707.82	8 691 665.97	240.770	-	-	-
IP39	801 668.30	8 691 512.00	-	-	3200	-
TP39B	801 639.65	8 691 386.97	241.038	192.34	-	1967
TP40A	801 278.43	8 689 455.55	243.005	-	-	-
IP40	801 182.70	8 688 925.80	-	-	3200	-
TP40B	800 875.48	8 688 441.82	244.087	210.71	-	1855
TP41A	599 846.65	8 686 883.54	245.942	-	-	-
IP41	599 693.30	8 686 645.10	-	-	3200	-
TP41B	599 589.65	8 686 384.67	246.581	201.7	-	826
TP42A	599 284.35	8 685 677.68	247.327	-	-	-
IP42	599 081.90	8 685 162.00	-	-	3200	-
TP42B	599 066.86	8 685 162.82	248.417	182.29	-	985
TP43A	599 620.74	8 683 577.94	249.396	-	-	-
IP43	599 695.10	8 683 436.80	-	-	3200	-
TP43B	599 672.92	8 683 295.74	249.678	177.23	-	1160
TP44A	599 077.90	8 682 187.15	250.838	-	-	-
IP44	599 087.50	8 681 938.60	-	-	3200	-
TP44B	599 072.44	8 681 764.38	251.235	184.34	-	1342
TP45A	598 970.81	8 680 462.15	252.577	-	-	-
IP45	598 942.70	8 680 431.90	-	-	3200	-
TP45B	599 008.08	8 679 665.18	253.316	171.11	-	117
TP46A	599 096.12	8 679 543.93	254.433	-	-	-

EXPORT PIPELINE ROUTE ALIGNMENT TABLE						
POINT	EASTING	NORTHING	KP	HEADING	BEND RADIUS (m)	STRAIGHT (m)
IP46	599 056.40	8 679 305.30	-	-	3200	-
TP46B	599 056.59	8 679 057.65	253.927	179.16	-	1493
TP47A	599 057.73	8 677 564.63	255.420	-	-	-
IP47	599 057.80	8 677 445.80	-	-	3200	-
TP47B	599 051.78	8 677 367.15	255.648	181.49	-	2715
TP48A	598 886.29	8 676 456.15	258.333	-	-	-
IP48	598 883.10	8 676 486.70	-	-	3200	-
TP48B	598 881.62	8 676 552.38	258.618	181.62	-	2770
TP49A	598 883.31	8 671 783.69	261.208	-	-	-
IP49	598 883.00	8 671 772.90	-	-	3200	-
TP49B	598 882.77	8 671 762.11	261.229	-	-	-
END OF LINE (FACE OF HUB)	598 781.66	8 670 772.53	262.719	181.21	-	990



NOTES
1. FOR GENERAL NOTES, REFER TO SHEET 1.