

Phase I - Imperial Oil Limited Cased Bore Crossing
 Bill of Material, Revision 1

Item	NS	Description	QTY
1	10"	PIPE, 10.75" OD (273.05 mm OD), 0.25" WT (6.35 mm WT), CS, API 5L CAT II, CLASS 600, X42, SMLS CSA Z245.1, EXTERNALLY COATED USING YJ2K TYPE, DSAW, WELDED IN ACCORDANCE WITH GP 29-03-18.	80 m
2	10"	PIPE, 10.75" OD (273.05 mm OD), 0.25" WT (6.35 mm WT), CS, API 5L CAT II, X42, CLASS 600, SMLS CSA Z245.1, BARE PIPE, DSAW, WELDED IN ACCORDANCE WITH GP 29-03-18.	4 m
3	16"	PIPE, 16" OD (406.4 mm OD), 0.375" WT (9.525 mm WT), CS, API 5L CAT II, X42, CLASS 600, SMLS CSA Z245.1, BARE PIPE, DSAW, TO USE AS CASING.	55 m
4	8"	PIPE, 8.625" OD (219.1 mm OD), 0.25" WT (6.35 mm WT), CS, API 5L CAT II, X42, CLASS 600, SMLS CSA 45.1, EXTERNALLY COATED USING YJ2K TYPE, DSAW, WELDED IN ACCORDANCE WITH GP 29-03-18.	80 m
5	8"	PIPE, 8.625" OD (219.1 mm OD), 0.25" WT (6.35 mm WT), CS, API 5L CAT II, X42, CLASS 600, SMLS CSA Z245.1, BARE PIPE, DSAW, WELDED IN ACCORDANCE WITH GP 29-03-18.	6.5 m
6	12"	PIPE, 12.75" OD (323.8 mm OD), 0.375" WT (9.525 mm WT), CS, API 5L CAT II, X42, CLASS 600, SMLS CSA Z245.1, BARE PIPE, DSAW, TO USE AS CASING.	55 m
7	10"	ELBOW, 10.75" OD (273.05 mm OD), 5D, 0.25" WT (6.35 mm WT), CS, BW, CAT II, X42, CLASS 600, CSA Z245.11, EXTERNALLY COATED USING YJ2K TYPE	6 EA
8	8"	ELBOW, 8.625" OD (219.1 mm OD), 5D, 0.25" WT (6.35 mm WT), CS, BW, CAT II, X42, CLASS 600, CSA Z245.11, EXTERNALLY COATED USING YJ2K TYPE	4 EA
9	10"	FLANGE, WN, ANSI 600, RF, 10.25" BORE (260.35 mm BORE), CSA Z245.12 CAT II,	1 EA
10	8"	FLANGE, WN, ANSI 600, RF, 8.125" BORE (206.375 mm BORE), CSA Z245.12 CAT II,	1 EA
11	1 1/4"	BOLT, 8 3/4" L, STUD, ASTM A-193 GR. B, w/ 2 HEAVY HEX NUTS ASTM A-194 GR. 2HM, (FOR 10.75" ANSI 600 RF FLG.).	16 EA
12	1 1/8"	BOLT, 7 3/4" L, STUD, ASTM A-193 GR. B, w/ 2 HEAVY HEX NUTS ASTM A-194 GR. 2HM, (FOR 8.625" ANSI 600 RF FLG.).	12 EA
13	10"	GASKET, ANSI 600, 1/8" WT, SPIRAL WOUND, FLEXIBLE GRAPHITE FILLER, SS INNER AND CS OUTER RING, ASME B16.5 & ASME B16.20	1 EA
14	8"	GASKET, ANSI 600, 1/8" WT, SPIRAL WOUND, FLEXIBLE GRAPHITE FILLER, SS INNER AND CS OUTER RING, ASME B16.5 & ASME B16.20	1 EA
15	10"	PSI RANGER II, MIDI SPACER, MIN 1.8 m SPACING, MIN 0.6 EACH SIDE OF THE JOINT, TO BE USED FOR THE 10" LINE.	25 EA
16	8"	PSI RANGER II, MIDI SPACER, MIN 1.8 m SPACING, MIN 0.6 EACH SIDE OF THE JOINT, TO BE USED FOR THE 8" LINE.	25 EA
17	10"	PSI END SEAL MODEL C	2 EA
18	8"	PSI END SEAL MODEL C	2 EA
19	8"	WELD CAP, BW, 8.625" OD, CS, API 4L, CLASS 600, X42. ASME B 16.9	2 EA
20	10"	WELD CAP, BW, 10.75" OD, CS, API 4L, CLASS 600, X42. ASME B 16.9	2 EA
21	12"	WELD CAP, BW, 12.75" OD, CS, API 4L, CLASS 600, X42. ASME B 16.9	2 EA
22	16"	WELD CAP, BW, 16.00" OD, CS, API 4L, CLASS 600, X42. ASME B 16.9	2 EA
23	2"	PIPE, 2.375" OD (60.325 mm OD), 0.154" WT (3.9116 mm WT), CS, API 5L CAT II, GRB, CLASS 600, SMLS CSA Z245.1, BARE, DSAW, TO BE USED FOR CASING VENT PIPE.	24 m