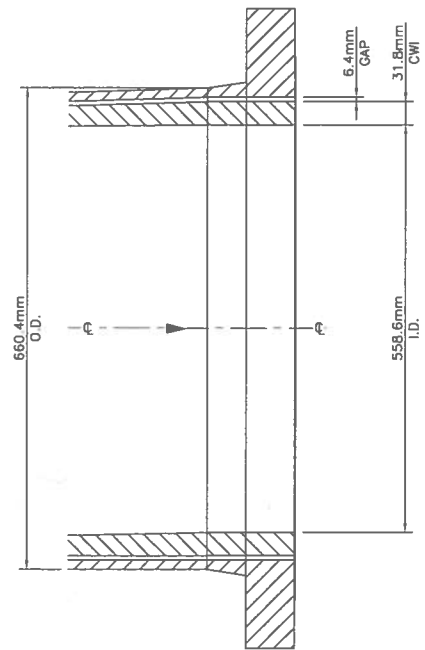


DETAIL 1
1:5



DETAIL 2
1:5

STRESS ANALYZED
NO FIELD CHANGES PERMITTED WITHOUT
APPROVAL FROM STRESS ENGINEER
Signature: [Signature]
Date: APR 12 2018

BILL OF MATERIAL						
Pipe						
Num	Length	Size	Sch.	Description	Material	S/F
1	1.52m	26" X 24"	XS	26" X 24" ECC REDUCER F.O.B	API 5L Gr. B (PSL 2)	S
Flanges						
Num	Qty	Size	Rating	Sch.	Description	S/F
2	1	26"	CL 150	XS	WN RF ASME B16.47 SERIES A	A105N
3	1	24"	CL 150	XS	WN RF ASME B16.5	A105N
Supports						
Num	Qty	Size	Description		Material	S/F
4	1	26	SHOE S4 100 HIGH (CS) AS PER 074-0000-220-000-026 01		S4-A-1-36	S

SERVICE: BITUMEN FROTH	
PIPE SPEC: A61K	
CODE: ASME B31.3 ADDENDUM 2016 EDITION	
DESIGN PRESSURE: 1580 kPag	DESIGN TEMPERATURE: 93°C
PRESSURE TEST: 3000 kPag	MDMT: -29°C
PAINT: NONE	STRESS RELIEVE: NONE

SPECIALTY ITEM NUMBER	IORL ITEM NUMBER
SP-C3635	141-3015-46

P&ID: 074-2300-020-141-101 01
LINE #: 26-JF-141-3547-A61K-38H

- NOTES:
- ALL WELDING AND NDT SHALL BE IN ACCORDANCE WITH ASME B31.11 AND SPECIFICATIONS GP-29-03-02 & GP-29-03-02 SKP, KP03-74-050
 - ALL SHARP EDGES ARE TO BE REMOVED.
 - BOLT HOLES TO STRADDLE CENTERLINE, UNLESS OTHERWISE NOTED.
 - PIPE I.D. TOLERANCE AT INSERT SHALL BE ± 1.5 mm.
 - SPOOL LINEAR DIMENSION TOLERANCE SHALL BE -3 mm TO 0mm.
 - SUPPLIER TO CONFIRM I.D. AND GAP DIMENSIONS.
 - CWI LINER AS PER SPEC KP 03-74-180.
 - PERMANENTLY TAGGED IDENTIFICATION WITH A STAINLESS STEEL NAME PLATE WITH FOLLOWING INFORMATION:
 - CWI THICKNESS
 - DIRECTION OF FLOW ARROW
 - PIPE MATERIAL TYPE AND GRADE
 - PIPE MATERIAL HEAT NUMBER
 - PURCHASE ORDER NUMBER
 - SPOOL SPECIALTY ITEM NUMBER
 - VENDOR REQUESTED IOR DRAWING NUMBER
 - MANUFACTURE'S NAME



IMPERIAL OIL RESOURCES

KEARL PLANT 2 - EXTRACTION
SP-C3635 CWI LINED NPS 24 X 26 PIPE SPOOL
PIPING DETAILS

CONTRACTOR NAME	SCALE	IOR DRAWING NUMBER	REV.
WORLEYPARSONS CANADA SERVICES LTD	1:30	074-2300-080-141-009 01	0
CONTRACTOR DWG NUMBER			
XY.2017.70588			

APPROVED FOR CONSTRUCTION	
DATE	REV.
PROJECT ENGINEERING	

NO.		DATE	REVISIONS	DRAWN	CHECK	DESIGN	APPR	IOR DWG NO.	TITLE
0	18 04 05	ISSUED FOR PURCHASE (XY.2017.70588)		JH	DE	MP	GM		
				DRAFTING		ENGINEERING			