



STRESS ANALYZED  
NO FIELD CHANGES PERMITTED WITHOUT  
APPROVAL FROM STRESS ENGINEER

Signature:

Date:

IMPERIAL OIL RESOURCES

KEARL PLANT 2 - EXTRACTION  
SP-K3492 CWI LINED NPS 24 X 26 PIPE SPOOL  
PIPING DETAILS

CONTRACTOR NAME	SCALE	IOR DRAWING NUMBER	REV.
WORLEYPARSONS CANADA SERVICES LTD	1:5	074-2300-080-141-009 01	1
CONTRACTOR DWG NUMBER			
XY.2017.70588			

BILL OF MATERIAL							
Pipe							
Num	Length	Size	Sch.	Description	Material	S/F	
1	1.7m	26"	XS	PIPE EPW ASME B36.10	API 5L Gr. B (PSL 2)	S	
Flanges							
Num	Qty	Size	Rating	Sch.	Description	Material	S/F
2	1	26"	CL 150	XS	WN RF ASME B16.47 SERIES A	A105N	S
3	1	24" x 26"	CL 150	XS	CUSTOM REDUCING WN RF ASME B16.5	A105N	S
4	1	26"	CL 150		GASKET RF SP/WND ASME B16.47 SERIES A LST SSIR CSOR 1/8" THK B16.20	316LSS/GRAPHITE FILLED	F
5	1	24"	CL 150		GASKET RF SP/WND ASME B16.5 LST SSIR CSOR 1/8" THK B16.20	316LSS/GRAPHITE FILLED	F
6	24	26"			1 1/4" X 9" STUD BOLT FULL THRDS W/2 EA A194 GR 2H HVY HEX NUTS	ASTM A193-B7	F
7	20	24"			1 1/4" X 8 1/2" STUD BOLT FULL THRDS W/2 EA A194 GR 2H HVY HEX NUTS	ASTM A193-B7	F
Supports							
Num	Qty	Size	Description		Material	S/F	
8	1	26"	SHOE S4 100 HIGH (CS) AS PER 074-0000-220-000-026 01		S4-A-1-26	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-K3492	141-3015-49

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 B31.3 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 ±1.5mm.
  - SPOOL LINEAR DIMENSION TOLERANCE SHALL BE -3mm 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

1	18 06 29	RE-ISSUED FOR PURCHASE (XY.2017.70588)	JH	GJN	VP	RJM				
0	18 04 05	ISSUED FOR PURCHASE (XY.2017.70588)	JH	DF	VP	RJM				
NO.	DATE	REVISIONS	DRAWN	CHECK	DESIGN	APPR.	IOR DWG NO.	TITLE		
			DRAFTING		ENGINEERING					

SEAL/STAMP	PERMIT	APPROVED FOR CONSTRUCTION		KEARL PLANT 2 - EXTRACTION SP-K3492 CWI LINED NPS 24 X 26 PIPE SPOOL PIPING DETAILS				
		DATE	REV.					
		PROJECT ENGINEERING						
				CONTRACTOR NAME		SCALE	IOR DRAWING NUMBER	REV.
				WORLEYPARSONS CANADA SERVICES LTD		1:5	074-2300-080-141-009 01	1
		CONTRACTOR DWG NUMBER						
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