



Equip. No. _____ Prov. Reg. No. **A** 433615 C.R.N. N-7408.2 Serial No. V-2699A Yr. Inst. _____
 Code/Div. ASME VIII, DIV1 Size: 60in x 18ft Manufacturer: OPSCO Yr. Bld. 1997
 C. Stamp: _____ Service: SOUR PWHT: HT Radiography: RT-1 Insulated: NO

Design & Materials Data

HEAD:
 Top Mat'l. SA 516 70N Top Nom. 61.6mm Top C.A. 3.2mm
 Btm. Mat'l. _____ Btm. Nom. _____ Btm. C.A. _____
CHANNEL:
 Material: _____ Nominal: _____ C.A. _____
BOOT
 Head Mat'l. _____ Head Nom. _____ Head C.A. _____
 Shell Mat'l. _____ Shell Nom. _____ Shell C.A. _____
SHELL
 Material: SA 516 70N Nominal: 63.5mm C.A. 3.2mm
 MAWP Shell Side: 9894 kPa @ Temp. 54°C
 MAWP Tube Side: _____ @ Temp. _____

CLIENT	CANADIAN NATURAL RESOURCES	
FACILITY	KNOPCIK COMPRESSOR STATION LSD 11-28-74-10 W6M	
ITEM	INLET SEPARATOR	
BY: TR	DATE: 06/2017	DWG.# 1

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES LTD
EQUIPMENT: INLET SEPARATOR
CRN#: N-7408.2
PROV REG: A 433615
TESTED ON STREAM

FACILITY: KNOPCIK COMPRESSOR STN. 11-28
SERVICE: SOUR
LOCATION: 11-28-74-10 W6M
RTD JOB #: 10.118768
REFER TO DRAWING: 1

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
100	Description: LOWER HEAD											
	2017 6											
Min. Thick.	62.4	58.40	3.2	61.60					0	0		
Average:	63.4											
Analysis:	2017/06 MIN SCAN AT KNUCKLE.											
105	Description: MID SHELL											
	2017 6											
Min. Thick.	64.4	60.30	3.2	63.50					0	0		
Average:	64.6											
Analysis:												
110	Description: LOWER SHELL											
	2017 6											
Min. Thick.	64.2	60.30	3.2	63.50					0	0		
Average:	64.4											
Analysis:												
115	Description: UPPER SHELL											
	2017 6											
Min. Thick.	64.6	60.30	3.2	63.50					0	0		
Average:	64.7											
Analysis:												
120	Description: BOTTOM SHELL											
	2017 6											
Min. Thick.	64.3	60.30	3.2	63.50					0	0		
Average:	64.5											
Analysis:												
125	Description: BOTTOM SHELL											
	2017 6											
Min. Thick.	63.6	60.30	3.2	63.50					0	0		
Average:	63.8											
Analysis:												

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Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
130												
Description:	LOWER HEAD											
	2017 6											
Min. Thick.	62	58.40	3.2	61.60					0	0		
Average:	62.4											
Analysis:	017/06 MIN SCAN AT KNUCKLE.											
135												
Description:	TOP SHELL											
	2017 6											
Min. Thick.	63.9	58.40	3.2	61.60					0	0		
Average:	64.3											
Analysis:												
140												
Description:	20" BOOT SHELL											
	2017 6											
Min. Thick.	36.9	0.00							0	0		
Average:	37.3											
Analysis:												
145												
Description:	20" BOOT HEAD											
	2017 6											
Min. Thick.	36.4	0.00							0	0		
Average:	36.8											
Analysis:												
150												
Description:	12" BOOT SHELL											
	2017 6											
Min. Thick.	31.4	0.00							0	0		
Average:	32.2											
Analysis:												
155												
Description:	12" BOOT HEAD											
	2017 6											
Min. Thick.	29.5	0.00							0	0		
Average:	30.5											
Analysis:	017/06 MIN SCAN AT KNUCKLE.											

UTS DATA

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SERVICE: SOUR
LOCATION: 11-28-74-10 W6M
RTD JOB #: 10.118768
REFER TO DRAWING: 1

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
160												
Description:	2" 90° NOZZLE											
	2017 6											
Min. Thick.	8.5	5.50	2.5	3.2	8.70							
Average:	8.7							0	0			2617
Analysis:	2017/06 THICKNESS CALCULATIONS CARRIED OUT TO 2.1mm. API 510 REFERENCES 2.5mm AS MIMINUM THICKNESS REQUIRED FOR ALL PRESSURE VESSELS AND PIPING.											
170												
Description:	2" 90° NOZZLE											
	2017 6											
Min. Thick.	8.2	5.50	2.5	3.2	8.70							
Average:	8.5							0	0			2245
Analysis:	2017/06 THICKNESS CALCULATIONS CARRIED OUT TO 2.1mm. API 510 REFERENCES 2.5mm AS MIMINUM THICKNESS REQUIRED FOR ALL PRESSURE VESSELS AND PIPING.											
180												
Description:	2" 90° NOZZLE											
	2017 6											
Min. Thick.	8.2	5.50	2.5	3.2	8.70							
Average:	8.5							0	0			2245
Analysis:	2017/06 THICKNESS CALCULATIONS CARRIED OUT TO 2.1mm. API 510 REFERENCES 2.5mm AS MIMINUM THICKNESS REQUIRED FOR ALL PRESSURE VESSELS AND PIPING.											

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES LTD
EQUIPMENT: INLET SEPARATOR PIPING
CRN#:
PROV REG:
TESTED ON STREAM

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RTD JOB #: 10.118768
REFER TO DRAWING: 1

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
165												
Description:	2" 90° ELBOW											
	2017 6											
Min. Thick.	8.3	7.61	1.1	8.70					0	0		
Average:	8.5											
Analysis:												
175												
Description:	2" 90° ELBOW											
	2017 6											
Min. Thick.	7.8	7.61	1.1	8.70					0	0		
Average:	8.3											
Analysis:												
185												
Description:	6" 90° ELBOW											
	2017 6											
Min. Thick.	9.9	9.63	1.4	11.00					0	0		
Average:	10.4											
Analysis:	017/06 MIN SCAN AT MID ELBOW, MID APEX.											
190												
Description:	6" 90° ELBOW											
	2017 6											
Min. Thick.	9.2	9.63	5.9	1.4	11.00				0	0		
Average:	9.7											
Analysis:	017/06 HEAVY EXTERNAL CORROSION. RETIREMENT DATE: 2054											
195												
Description:	4" 90° ELBOW											
	2017 6											
Min. Thick.	9.5	7.53	1.1	8.60					0	0		
Average:	9.7											
Analysis:												