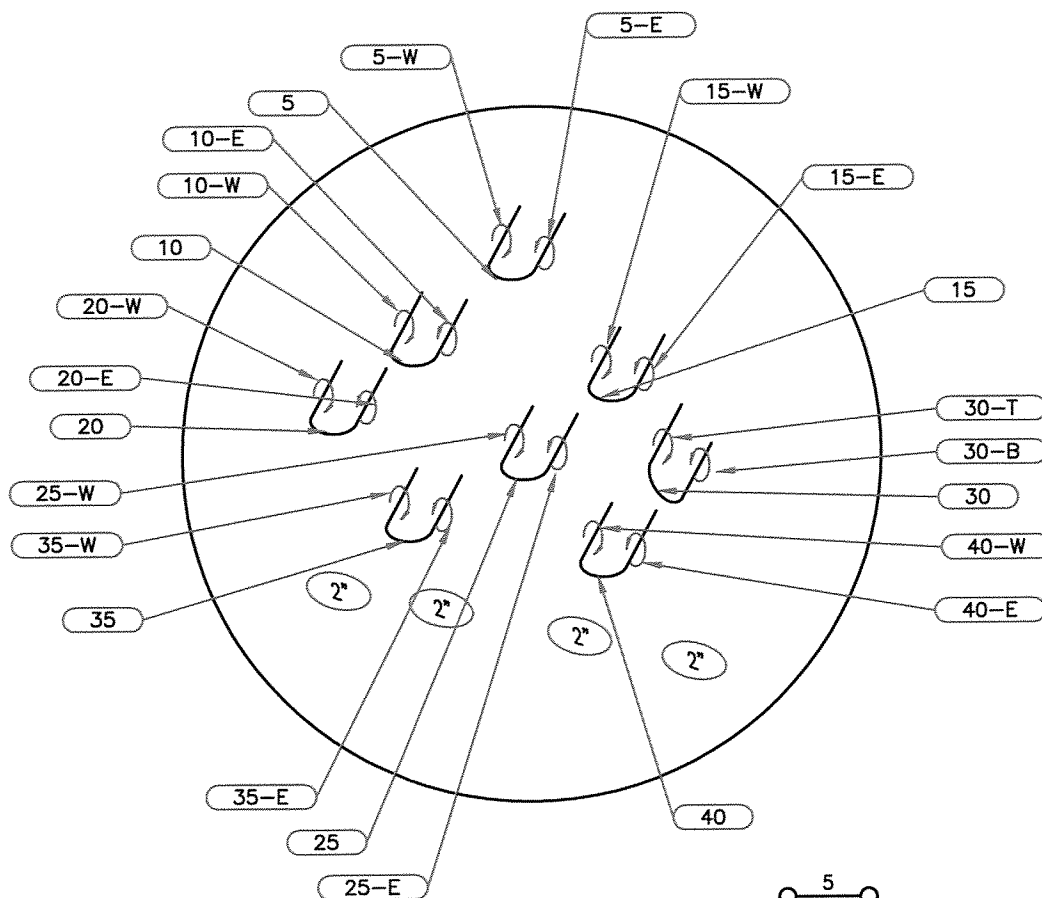
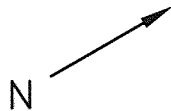


Equip. No. _____ Prov. Reg. No. **(A) 495600** C.R.N. _____ Serial No. _____ Yr. Inst. _____
 Code/Div. _____ Size: _____ Manufacturer: _____ Yr. Bld. _____
 C. Stamp: _____ Service: _____ PWHT: _____ Radiography: _____ Insulated: _____

Design & Materials Data

HEAD: FITTINGS
 Mat'l. _____ Nom. _____ C.A. _____
 Mat'l. _____ Nom. _____ 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: _____ Nominal: _____ C.A. _____
 MAWP Shell Side: _____ @ Temp. _____
 MAWP Tube Side: _____ @ Temp. _____

CLIENT **PETRO CANADA OIL AND GAS**
 FACILITY **HANLAN ROBB GAS PLANT**
MINEHEAD FIELD - UNIT #50
LSO 14-06-49-19 W5M
 ITEM **HEATER BUNDLE**

BY: EG

DATE: 01/2004

DWG.# 2A



UTS DATA

CLIENT: PETRO-CANADA OIL AND GAS

FACILITY: UNIT 50 MINEHEAD

EQUIPMENT: HEATER BUNDLE

SERVICE:

EQUIPMENT ID#:

LOCATION: 14-06-49-19 W5M

PROV REG: A 495600

RTD JOB #: 2121176

TESTED ON STREAM

REFER TO DRAWING: 2A

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
05												
Description: 4" 180° ELBOW												
	2004	1	2005	4								
Min. Thick.	13.2		13.1		4.2	4.2	6.9	11.1	.08	.08	L	
Average:	13.4		13.3						.08	.08	L	
Analysis:												
05-SE												
Description: 360° CIRC ON 4" EAST												
	2004	1	2005	4								
Min. Thick.	10.8		10.7		4.2	4.2	6.9	11.1	.08	.08	L	
Average:	11.1		11.0						.08	.08	L	
Analysis:												
05-SW												
Description: 360° CIRC ON 4" WEST												
	2004	1	2005	4								
Min. Thick.	11.0		11.0		4.2	4.2	6.9	11.1	0	0	L	
Average:	11.4		11.4						0	0	L	
Analysis:												
10												
Description: 4" 180° ELBOW												
	2004	1	2005	4								
Min. Thick.	14.8		14.6		4.2	4.2	6.9	11.1	.16	.16	L	
Average:	15.0		14.9						.08	.08	L	
Analysis:												
10-E												
Description: 360° CIRC ON 4" EAST												
	2004	1	2005	4								
Min. Thick.	10.1		10.1		4.2	4.2	6.9	11.1	0	0	L	
Average:	10.5		10.5						0	0	L	
Analysis:												
10-W												
Description: 360° CIRC ON 4" WEST												
	2004	1	2005	4								
Min. Thick.	10.1		10.1		4.2	4.2	6.9	11.1	0	0	L	
Average:	10.8		10.8						0	0	L	
Analysis: 2005/04 MIN SCAN @ 6:00 POSITION												



UTS DATA

CLIENT: PETRO-CANADA OIL AND GAS

FACILITY: UNIT 50 MINEHEAD

EQUIPMENT: HEATER BUNDLE

SERVICE:

EQUIPMENT ID#:

LOCATION: 14-06-49-19 W5M

PROV REG: A 495600

RTD JOB #: 2121176

TESTED ON STREAM

REFER TO DRAWING: 2A

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
15												
Description: 4" 180° ELBOW												
	2004	1	2005	4								
Min. Thick.	14.2		14.1		4.2	4.2	6.9	11.1	.08	.08	L	
Average:	14.5		14.5						0	0	L	
Analysis:												
15-E												
Description: 360° CIRC ON 4" EAST												
	2004	1	2005	4								
Min. Thick.	10.2		10.1		4.2	4.2	6.9	11.1	.08	.08	L	
Average:	10.7		10.5						.16	.16	L	2044
Analysis:												
15-W												
Description: 360° CIRC ON 4" WEST												
	2004	1	2005	4								
Min. Thick.	10.2		10.2		4.2	4.2	6.9	11.1	0	0	L	
Average:	10.7		10.7						0	0	L	
Analysis:												
20												
Description: 4" 180° ELBOW												
	2004	4	2005	4								
Min. Thick.	13.8		13.8		4.2	4.2	6.9	11.1	0	0	L	
Average:	14.1		14.1						0	0	L	
Analysis:												
20-E												
Description: 360° CIRC ON 4" EAST												
	2004	4	2005	4								
Min. Thick.	10.1		10.1		4.2	4.2	6.9	11.1	0	0	L	
Average:	10.6		10.6						0	0	L	
Analysis:												
20-W												
Description: 360° CIRC ON 4" WEST												
	2004	1	2005	4								
Min. Thick.	10.4		10.4		4.2	4.2	6.9	11.1	0	0	L	
Average:	10.9		10.9						0	0	L	
Analysis:												



UTS DATA

CLIENT: PETRO-CANADA OIL AND GAS

FACILITY: UNIT 50 MINEHEAD

EQUIPMENT: HEATER BUNDLE

SERVICE:

EQUIPMENT ID#:

LOCATION: 14-06-49-19 W5M

PROV REG: A 495600

RTD JOB #: 2121176

TESTED ON STREAM

REFER TO DRAWING: 2A

Test Point	THICKNESS DATA							Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
25															
Description: 4" 180° ELBOW															
	2004	4	2005	4											
Min. Thick.	13.8		13.8		4.2	4.2	6.9	11.1	0	0		L			
Average:	14.3		14.3						0	0		L			
Analysis:															
25-E															
Description: 360" CIRC ON 4" EAST															
	2004	4	2005	4											
Min. Thick.	10.2		10.2		4.2	4.2	6.9	11.1	0	0		L			
Average:	10.6		10.6						0	0		L			
Analysis:															
25-W															
Description: 360° CIRC ON 4" WEST															
	2004	1	2005	4											
Min. Thick.	10.5		10.1		4.2	4.2	6.9	11.1	.32	.32		L			2023
Average:	10.8		10.5						.24	.24		L			2031
Analysis: 2005/04 MIN SCAN @ 12:00 POSITION															
30															
Description: 4" 180° ELBOW															
	2004	1	2005	4											
Min. Thick.	18.2		17.2		12.4	12.4	4.7	17.1	.8	.8		L			2011
Average:	18.7		18.7						0	0		L			
Analysis: 2005/04 MIN SCAN @ BOTTOM WELD															
30-B															
Description: 360° CIRC ON 4" BOTTOM															
	2004	1	2005	4											
Min. Thick.	17.1		17.0		12.4	12.4	4.7	17.1	.08	.08		L			
Average:	17.5		17.4						.08	.08		L			
Analysis:															
30-T															
Description: 360° CIRC ON 4" TOP															
	2004	1	2004	4											
Min. Thick.	16.1		15.9		12.4	12.4	4.7	17.1	.8	.8		L			200
Average:	16.6		16.7						0	0		L			
Analysis:															



UTS DATA

CLIENT: PETRO-CANADA OIL AND GAS

FACILITY: UNIT 50 MINEHEAD

EQUIPMENT: HEATER BUNDLE

SERVICE:

EQUIPMENT ID#:

LOCATION: 14-06-49-19 W5M

PROV REG: A 495600

RTD JOB #: 2121176

TESTED ON STREAM

REFER TO DRAWING: 2A

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
35												
Description: 4" 180° ELBOW												
	2004	1	2005	4								
Min. Thick.	17.1		16.9		12.4	12.4	4.7	17.1	.16	.16	L	2033
Average:	17.6		17.5						.08	.08	L	
Analysis:												
35-E												
Description: 360° CIRC ON 4" EAST												
	2004	1	2005	4								
Min. Thick.	16.6		16.5		12.4	12.4	4.7	17.1	.08	.08	L	
Average:	17.2		17.1						.08	.08	L	
Analysis:												
35-W												
Description: 360° CIRC ON 4" EAST												
	2004	1	2005	4								
Min. Thick.	16.0		15.8		12.4	12.4	4.7	17.1	.16	.16	L	2026
Average:	16.6		16.5						.08	.08	L	
Analysis:												
40												
Description: 4" 180° ELBOW												
	2004	1	2005	4								
Min. Thick.	16.8		16.7		12.4	12.4	4.7	17.1	.08	.08	L	
Average:	17.6		17.5						.08	.08	L	
Analysis:												
40-E												
Description: 360° CRIC ON 4" EAST												
	2004	1	2005	4								
Min. Thick.	16.0		16.0		12.4	12.4	4.7	17.1	0	0	L	
Average:	16.6		16.6						0	0	L	
Analysis: 2005/04 MIN SCAN @ 6:00												
40-W												
Description: 360° CIRC ON 4" WEST												
	2004	1	2005	4								
Min. Thick.	16.6		16.2		12.4	12.4	4.7	17.1	.32	.32	L	2017
Average:	17.0		16.5						.4	.4	L	2015
Analysis: 2005/04 MIN SCAN @ 12:00 POSITION												