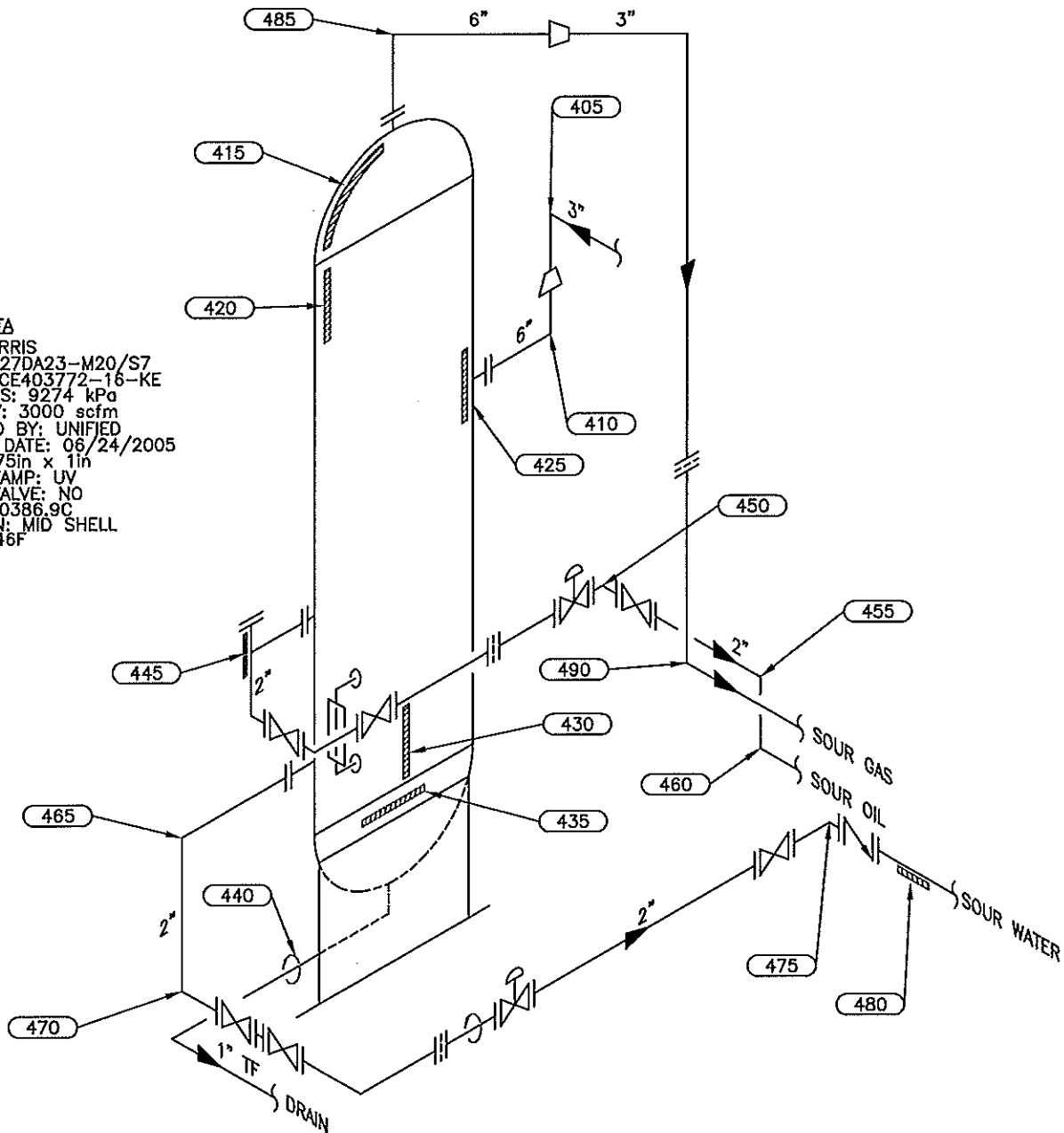


PSV DATA
 MFG: FARRIS
 MODEL: 27DA23-M20/S7
 SERIAL: CE403772-16-KE
 SET PRES: 9274 kPa
 CAPACITY: 3000 scfm
 SERVICED BY: UNIFIED
 SERVICE DATE: 06/24/2005
 SIZE: 0.75in x 1in
 CODE STAMP: UV
 BLOCK VALVE: NO
 CRN: 0G0386.9C
 LOCATION: MID SHELL
 TAG: 8246F



Equip. No. V-100 Prov. Reg. No. Ⓐ 439.360 C.R.N. N-4676.21 Serial No. 012993-1 Yr. Inst. _____
 Code/Div. ASME VIII, DIV 1 Size: 32in x 94in Manufacturer: OPSCO Yr. Bld. 1998
 C. Stamp: YES Service: SOUR PWHT: YES Radiography: RT-1 Insulated: NO

Design & Materials Data

HEAD:
 Top Mat'l. SA 516 70N Top Nom. 33.2mm 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: 34.9mm C.A. 3.2mm
 MAWP Shell Side: 9619 kPa @ Temp. 66°C
 MAWP Tube Side: _____ @ Temp. _____

CLIENT	CANADIAN NATURAL RESOURCES	
FACILITY	HALFWAY BATTERY LSD 05-12-87-25 W6M	
ITEM	TEST SEPARATOR	
BY: LR	DATE: 07/2005	DWG.# 4

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: TEST SEPARATOR
CRN#: N-4676.21
PROV REG: A 439360
TESTED ON STREAM

FACILITY: HALFWAY BATTERY
SERVICE: SOUR
LOCATION: 05-12-87-25 W6M
RTD JOB #: 05.001616
REFER TO DRAWING: 4

Test Point	THICKNESS DATA			Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/yr	Flag Date
405											
Description:	3" 90° ELBOW										
	2005	6	2008	3							
Min. Thick.	6.9		6.9		6.7		.9	7.6	0	0	L
Average:	7.4		7.4						0	0	L
Analysis:	03/2008 MIN SCAN @ MID APEX										
410											
Description:	6" 90° ELBOW										
	2005	6	2008	3							
Min. Thick.	12.1		12.1		9.6		1.4	11	0	0	L
Average:	12.5		12.5						0	0	L
Analysis:	03/2008 MIN SCAN RIGHT OF MID ELBOW										
415											
Description:	TOP HEAD										
	2005	6	2008	3							
Min. Thick.	33.8		33.8		30		3.2	33.2	0	0	L
Average:	35.4		35.4						0	0	L
Analysis:	03/2008 MIN SCAN @ KNUCKLE										
420											
Description:	UPPER SHELL										
	2005	6	2008	3							
Min. Thick.	35.2		35.2		31.7		3.2	34.9	0	0	L
Average:	35.3		35.3						0	0	L
Analysis:											
425											
Description:	UPPER SHELL										
	2005	6	2008	3							
Min. Thick.	35.2		35.2		31.7		3.2	34.9	0	0	L
Average:	35.3		35.3						0	0	L
Analysis:											
430											
Description:	LOWER SHELL										
	2005	6	2008	3							
Min. Thick.	35		35		31.7		3.2	34.9	0	0	L
Average:	35.1		35.1						0	0	L
Analysis:											

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: TEST SEPARATOR
CRN#: N-4676.21
PROV REG: A 439360
TESTED ON STREAM

FACILITY: HALFWAY BATTERY
SERVICE: SOUR
LOCATION: 05-12-87-25 W6M
RTD JOB #: 05.001616
REFER TO DRAWING: 4

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
435												
Description:	BOTTOM HEAD											
	2005	6	2008	3								
Min. Thick.	36.9		36.9		30		3.2	33.2	0	0		L
Average:	37		37						0	0		L
Analysis:												
440												
Description:	2" TF CIRC											
	2005	6	2008	3								
Min. Thick.	6.9		6.9		6.2		.9	7.1	0	0		L
Average:	7.2		7.2						0	0		L
Analysis:												

UTS DATA

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

FACILITY: HALFWAY BATTERY
SERVICE: SOUR
LOCATION: 05-12-87-25 W6M
RTD JOB #: 05.001616
REFER TO DRAWING: 4

Test Point	THICKNESS DATA			Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/yr	Flag Date
445	Description: 2" VERTICAL BAND										
	2008	3									
Min. Thick.	7.6		4.81		.7	5.5					L
Average:	8.1						0	0			L
Analysis:	03/2008 NEW METAL BETWEEN 2005 & 2008										
450	Description: 2" 90° ELBOW										
	2005	6	2008	3							
Min. Thick.	5.4		5.4		4.81	.7	5.5	0	0		L
Average:	5.7		5.7					0	0		L
Analysis:											
455	Description: 2" 90° ELBOW										
	2005	6	2008	3							
Min. Thick.	5.2		5.2		4.81	.7	5.5	0	0		L
Average:	5.6		5.5					.04	.04		L 2027
Analysis:											
460	Description: 2" 90° ELBOW										
	2005	6	2008	3							
Min. Thick.	5.2		5.2		4.81	.7	5.5	0	0		L
Average:	5.4		5.4					0	0		L
Analysis:											
465	Description: 2" 90° ELBOW										
	2005	6	2008	3							
Min. Thick.	5		5		4.81	.7	5.5	0	0		L
Average:	5.3		5.3					0	0		L
Analysis:											
470	Description: 2" 90° ELBOW										
	2005	6	2008	3							
Min. Thick.	4.9		4.9		4.81	.7	5.5	0	0		L
Average:	5.2		5.2					0	0		L
Analysis:	03/2008 MIN SCAN @ MID APEX										

UTS DATA

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

FACILITY: HALFWAY BATTERY
SERVICE: SOUR
LOCATION: 05-12-87-25 W6M
RTD JOB #: 05.001616
REFER TO DRAWING: 4

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/yr	Flag Date
475												
Description:	2" 90° ELBOW											
	2005	6	2008	3								
Min. Thick.	4.5		4.5		4.81	2.7	.7	5.5	0	0	L	2008
Average:	5.2		5.2						0	0	L	
Analysis:	02008 ISOLATED PITTING BELOW MID APEX											
480												
Description:	2" HORIZONTAL BAND											
	2005	6	2008	3								
Min. Thick.	5.4		5.4		4.81		.7	5.5	0	0	L	
Average:	5.6		5.6						0	0	L	
Analysis:												
485												
Description:	6" 90° ELBOW											
	2005	6	2008	3								
Min. Thick.	9.8		9.8		9.63		1.4	11	0	0	L	
Average:	10.4		10.2						.07	.07	L	2016
Analysis:	03/2008 MIN SCAN @ MID BAND, MID APEX											
490												
Description:	3" 90° ELBOW											
	2005	6	2008	3								
Min. Thick.	7.9		7.7		6.65		.9	7.6	.07	.07	L	2022
Average:	8.1		8.1						0	0	L	
Analysis:	03/2008 MIN SCAN @ MID BAND, MID APEX											