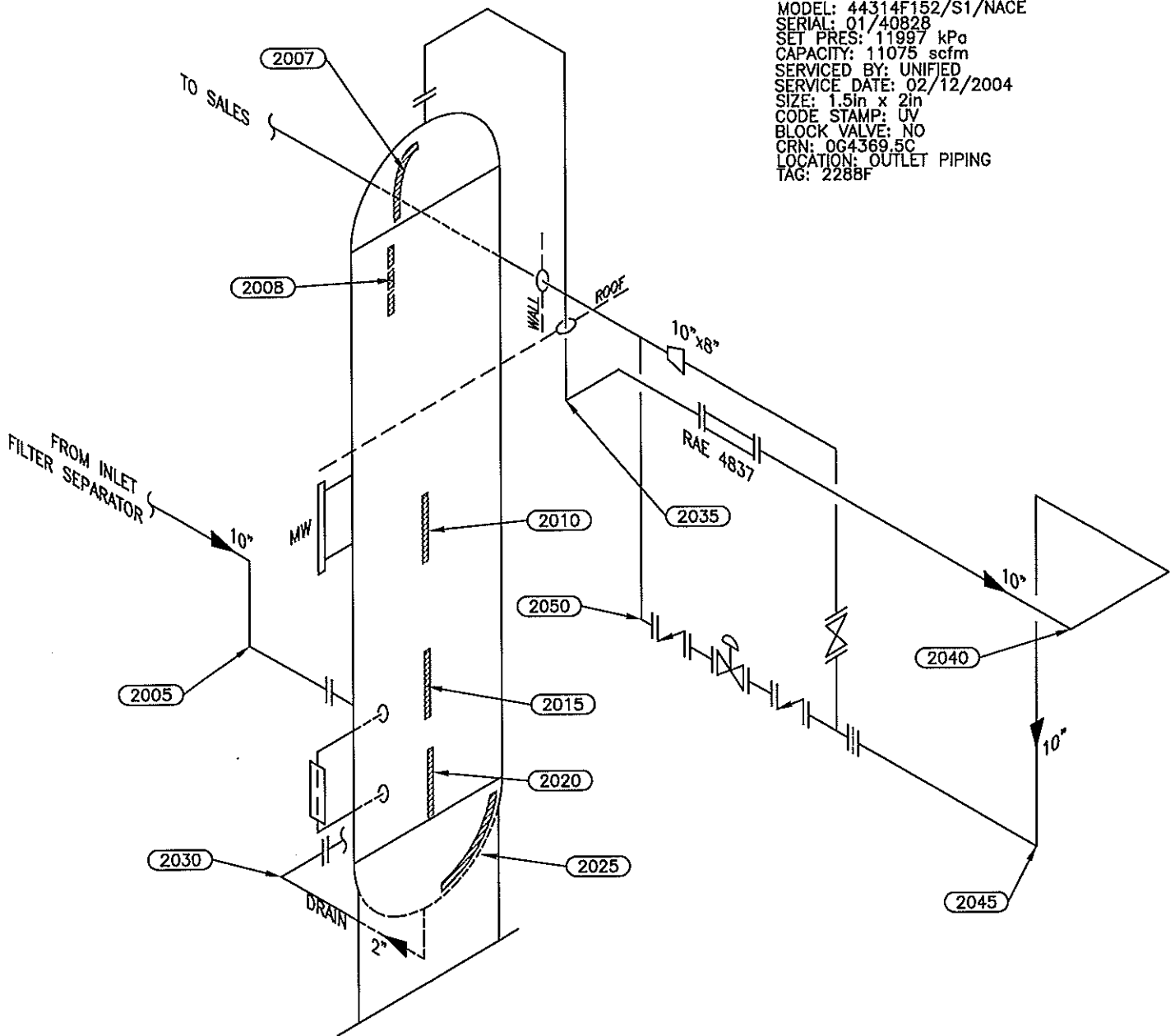


PSV DATA

MFG: ANDERSON GREENWOOD
 MODEL: 44314F152/S1/NACE
 SERIAL: 01/40828
 SET PRES: 11997 kPa
 CAPACITY: 11075 scfm
 SERVICED BY: UNIFIED
 SERVICE DATE: 02/12/2004
 SIZE: 1.5in x 2in
 CODE STAMP: UV
 BLOCK VALVE: NO
 CRN: OG4369.5C
 LOCATION: OUTLET PIPING
 TAG: 2288F



Equip. No. V-3 Prov. Reg. No. Ⓐ 133291 C.R.N. E-8494-1 Serial No. PE 772 Yr. Inst. _____
 Code/Div. ASME VIII, DIV 1 Size: 43in x 26ft Manufacturer: CESSCO Yr. Bit. 1977
 C. Stamp: U Service: SWEET PWHT: NIL Radiography: NIL Insulated: NO

Design & Materials Data

HEAD:
 Top Mat'l. SA 516 70N Top Nom. 50.8mm Top C.A. 3.2mm
 Btm. Mat'l. SA 516 70N Btm. Nom. 50.8mm Btm. C.A. 3.2mm

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: 50.8mm C.A. 3.2mm
 MAWP Shell Side: 9791 kPa Ⓢ Temp. 66°C
 MAWP Tube Side: _____ Ⓢ Temp. _____

CLIENT	CANADIAN NATURAL RESOURCES	
FACILITY	LADYFERN	
	LSD a-84-G/94-H-1	
ITEM	GLYCOL CONTACTOR	
BY: LR	DATE: 11/2005	DWG.# 20

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: GLYCOL CONTACTOR
CRN#: E-8494.1
PROV REG: A 133291
TESTED ON STREAM

FACILITY: LADYFERN
SERVICE: SWEET
LOCATION: a-84-G/94-H-1
RTD JOB #: 10.110181
REFER TO DRAWING: 20

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/yr	Retirement Date
2007												
Description:	TOP HEAD											
	2005	9	2011	4								
Min. Thick.	52.7		52.7		47.60		3.2	50.80	0		0	
Average:	53.4		53.4						0		0	
Analysis:	2005/09 MIN SCAN AT KNUCKLE											
2008												
Description:	UPPER SHELL											
	2005	9	2011	4								
Min. Thick.	51.2		51.2		47.60		3.2	50.80	0		0	
Average:	51.4		51.4						0		0	
Analysis:												
2010												
Description:	MID SHELL											
	2005	9	2011	4								
Min. Thick.	51.7		51.6		47.60		3.2	50.80	.02		.02	
Average:	51.9		51.9						0		0	
Analysis:												
2015												
Description:	MID SHELL											
	2005	9	2011	4								
Min. Thick.	52.6		52.6		47.60		3.2	50.80	0		0	
Average:	52.7		52.7						0		0	
Analysis:												
2020												
Description:	LOWER SHELL											
	2005	9	2011	4								
Min. Thick.	52.3		52.3		47.60		3.2	50.80	0		0	
Average:	52.4		52.4						0		0	
Analysis:												
2025												
Description:	BOTTOM HEAD											
	2005	9	2011	4								
Min. Thick.	55.4		55.4		47.60		3.2	50.80	0		0	
Average:	56.3		56.3						0		0	
Analysis:	ISOLATED PIT 4" FROM NOZZLE.											

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: GLYCOL CONTACTOR
CRN#: E-8494.1
PROV REG: A 133291
TESTED ON STREAM

FACILITY: LADYFERN
SERVICE: SWEET
LOCATION: a-84-G/94-H-1
RTD JOB #: 10.110181
REFER TO DRAWING: 20

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ava. mm/yr	Retirement Date
2030												
Description:	2" 90° NOZZLE											
	2005	9	2011	4								
Min. Thick.	7.1		7.1		5.50		3.2	8.70	0	0		
Average:	7.3		7.3						0	0		
Analysis:												

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: GLYCOL CONTACTOR PIPING
CRN#:
PROV REG:
TESTED ON STREAM

FACILITY: LADYFERN
SERVICE: SWEET
LOCATION: a-84-G/94-H-1
RTD JOB #: 10.110181
REFER TO DRAWING: 20

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/yr	Retirement Date
2005												
Description:	10" 90° ELBOW											
	2001	4	2005	9								
Min. Thick.	13.4		13.4		11.11		1.6	12.70	0	0		
Average:	13.7		13.7						0	0		
Analysis:												
2035												
Description:	10" 90° ELBOW											
	2005	9	2011	4								
Min. Thick.	18.1		18.1		16.01		2.3	18.30	0	0		
Average:	18.6		18.5						.02	.02		
Analysis:	2005/09 MIN SCAN MID APEX											
2040												
Description:	10" 90° ELBOW											
	2005	9	2011	4								
Min. Thick.	21.6		21.6		18.73		2.7	21.40	0	0		
Average:	22.2		22.2						0	0		
Analysis:	ERROSION AT MID APEX											
2045												
Description:	10" 90° ELBOW											
	2005	9	2011	4								
Min. Thick.	22		22		18.73		2.7	21.40	0	0		
Average:	22.7		22.7						0	0		
Analysis:	2005/09 MIN SCAN AT TOP OF WELD-O-LET											
2050												
Description:	10" 90° ELBOW											
	2005	9	2011	4								
Min. Thick.	19		18.7		16.01		2.3	18.30	.05	.05		
Average:	19.5		19.3						.04	.04		
Analysis:	2005/09 MIN SCAN AT TOP OF WELD-O-LET											