Production - Facilities Engineering A0491800 Vertical Absorber Manufacturers Data **Canadian Natural Resources Limited** Report

Content Date Range: 2/11/2003 to

2/11/2003

**Vessel Integrity** 

Inspection Data

Open: 1/24/2007

00759038

Close:

Vital: Original: Confidential

Yes Yes No

· FB-592

## FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

B491800

1. **ctured and certified by			Opsco Energy Industries Ltd., 2601 Centre Ave East, Calgary, AB T2A 2L1								
2.Manufactured for			(Name and address of manufacturer)  Anadarko Canada Ltd. 425 - 1st St. S.W., Box 2595 STN . M Calgary, AB T2P 4V4								
3. Location of install	ation					address of purcha B.C. LSD:b-A		/a Higgs		it gr	
	r er 1.,210301 0 er		02-3812-1			(Name and address 722.21	SN-VAB-0	SN-VAB-C R.PQ		2003	
(Horiz or vert. tank)  5. The chemical and physical properties		(Mfgr's serial No.)		nts of material si	of material specification of the		(Drawing No.) the ASME BOILER AND		(Year built)		
			tion, and workman						2001		
to	2001			N/A	1 1			N/A	Year		
Adde	Addenda (date)		Code Case Nos.					Special service per UG-1 2			
The state of the s	S. Shell: SA-516-70 N Mat1 (Spec. No., Grade)		Nominal Thk.(in.)		0.125" Corr. Allow.(in.)		1'-10" Diam. I.D. (ft.& in.)		26' - 0" Length (overall) (ft. & in.)		
7. Seams: Type I				1150	I I		in.)	*Full	erail) (IC & In.)		
Long (VVelded Dbl. Sngl., Lap, Butt)			R.T. (Spot or Full)	Eff. (%) H.T. Temp. (F)		Time (hr)	Girth (Welded Dbl., Sngl., Lap, Butt)		R.T. (Spot, Partia or Full)	No. of Course	
8. Heads: (a) Mat'l			SA-51	6-70 N		(b) Mat'l			516-70 N		
128 68	2			lo. Grade)					. No. Grade)	100	
Location (Top Bottom, Ends)		Minimum Thickness	Corrosion	Crown	Knuckle Radius	Elliptical	Conical Apex Angle	Hernispheric Radius	cal Flat Diameter	Side to Pre	
(a) Top Botton	_	.9375"	0.125"	- 110000	T. Salar	2:1	7 qual ringio		-	Concave	
(b)	-	.93/3	0.125			2.1				Concave	
if removable, bolt	s used (	describe othe	r fasteners)						1110		
9. MAWP			1410		psi at max. tem		Spec. No., Gr., S			°F	
Min.Design Metal	Temp.	**-20		1410 Ps		łydro.,pneu, c	r comb. test	150	2115		
10. Nozzles, Inspection		safety valve of	penings:			,,,,			19.7		
Purpose	No.	Diam.	Туре	TO BE	Matl.	Nom.	Reinforce		How	Location	
(Inlet, O utlet, Drain)  Inlet	1	or Size	CI 600 RFLWN	SA-105 N		Thk.	Mati Integr		Attached		
Outlet/INSP	1	4"	Cl 600 RFWN	SA-333-Gr.6/SA-105N		.674"	Integr		Fig. UW-16.1(c)	Head	
WD/Insp	1	3"	Cl 600 RFLWN	SA-105 N		.810"	Integr		Fig. UW-16.1(c)	Shell	
WLC	1	2"	CI 600 RFLWN	SA-105 N		.660"	Integr		rig. UW-16.1(c)		
WLG/GLG Pressure Ind.	4	0.75"	Cl 600 RFLWN	SA-105 N SA-105 N		.570"	Integr Integr		Fig. UW-16.1(c) Fig. UW-16.1(c)		
Temp. Ind.	1	1"	Cl 600 RFLWN	SA-105 N		.560"		Integral 1		2.116	
Drain/RTA/TI/SPARES	15	2"	Cl 600 RFWN	SA-106B/SA-234WPB/SA-105N		.343"	- 0		Fig. UW-16.1(c)		
PSV LSHH	1	3"	CI 600 RFWN	SA-333-Gr.6/SA-105N SA-105 N		.400"			Fig. UW-16.1(c)	1 1987	
LGI/RGO/HE	4	1"	CI 600 RFLWN CI 600 RFWN	SA-333-Gr.6/SA-105N		.810"	Integral Integral		Fig. UW-16.1(c)		
11. Supports: Skirt YES Lugi			s	Legs Other			Attached		Btm Head V	Velded	
12. Remarks: Manufa the report:		(Yes or no) S Partial Data	(No.) Reports properly id						(Where and how for the following		
Impact Testing:	**E	Exempt as per l	JCS-66(a) and UG-		ne of part, item number Radiography p				and UW-51		
Tag No.:		-301	Volume: 71.5 Cu. ft. (2.02 Cu. M)								
A No:			CONSTRUCTION DWG. NO.: V-02-3812-2322 R.3								
			CE	RTIFICATE	OF SHOP COM	PLIANCE					
We certify that the st form to the ASME Co			and the second of		The state of the s			expires 4	of this vessel c		
Date: February 11 (mm/dd/yy)	, 2003	Co. Name	Opsco Energy Industries Ltd. (Manufacturer)			Signed	(Representative)				
			С	ERTIFICATE	OF SHOP INSP	PECTION				ATTL	
Vessel constructed b		•		y Industries Lt		at			erta, Canada		
I, the undersigned, h	100	a valid commis			ard of Boiler and					ce of	
have inspected the c	berta	ant described	and empl		ort on	ABSA, A 02/11/0	lberta Boilers S 3		tate that, to the I	nest of	
my knowledge and b											
certificate neither the	Inspec	tor nor his em	ployer makes any	warranty, exp	ressed, or implie	d, concerning	the pressure v	ressel descr	ibed in the Man	J-	
facturer's Data Repo or a loss of any kind					r shall be liable in			al injury or p	property damage		
Date Februar	y 11, 20	003 Signe	d fane	sa Ke	auf	Comm	issions	at Brd/incl end	Alberta 175	>	

