



PRESSURE VESSEL DATA:

COMPANY:	BP CANADA ENERGY COMPANY	LOCATION	CHINCHAGA - PLANT 2
FACILITY:	LSD: 01-24-096-05W6M		
VESSEL NAME:	DE-ETHANIZER COLUMN(SHELL SIDE)		
FACILITY VESSEL IDENTIFICATION:	MAINTENANCE NO. (Maximo):		
IS VESSEL ASSOCIATED WITH A COMPRESSOR?	Yes No		
ORIENTATION:			
SEPARATOR TYPE (if applicable):	2 Phase	3 Phase	N/A
STATUS:	IN SERVICE		
DIRECT FIRED VESSEL:	Yes No	MANWAY:	
THERMAL INSULATION:	Internal Access Through:		

NAME PLATE:

JURISDICTION NUMBER :	A0201355	CRN NUMBER:	E4357.2
BP TAG NUMBER:	T-1	N. BOARD NUMBER:	
VESSEL SERIAL NUMBER:	82-606-4	CAPACITY (Volume):	NS
DRAWING NUMBER:	NS	CHANNEL MATERIAL:	in. NS N/A
CHANNEL THICKNESS:	in. NS N/A	HEAT TREATMENT:	
CODE PARAMETERS:	U, UW, UM NS	JOINT EFFICIENCY (J.E.):	NS
MANUFACTURER:	DACRO INDUSTRIES	YEAR BUILT:	1982

INSULATION / COATING

DESCRIPTION	INTERNAL COATING			EXTERNAL COATING			INSULATION			
	COATED?	THK	TYPE	DATE	COATED?	THK	TYPE	DATE	INSULATED?	DENSITY
	N				N				N	

SHELL STATIC

SHELL	MATERIAL	H.T.	NOMINAL	DIAMETER	LENGTH	C.A.	RT LEVEL
TOP SHELL	SA-106B, SA-516-70, SA-53B, SA-516-70N, SA-515-70, Other	N	0.500 in.	54 in.	in / mm	0.0630 in.	
BOTTOM SHE	SA-106B, SA-516-70, SA-53B, SA-516-70N, SA-515-70, Other	N	0.874 in.	54 in.	in / mm	0.0630 in.	
Shell @ Roof	SA-106B, SA-516-70, SA-53B, SA-516-70N, SA-515-70, Other	N	0.874 in.	54 in.	in / mm	0.0630 in.	
Btm Shell	SA-106B, SA-516-70, SA-53B, SA-516-70N, SA-515-70, Other	N	0.874 in.	54 in.	in / mm	0.0630 in.	

HEAD STATIC

HEAD	MATERIAL	H.T.	NOMINAL	DIAMETER	C.A.	RT LEVEL
TOP HEAD C/	SA-106B, SA-516-70, SA-53B, SA-516-70N, SA-515-70, Other	N	1.000 in.	1.372 in.	0.0630 in.	
BOTTOM HEA	SA-106B, SA-516-70, SA-53B, SA-516-70N, SA-515-70, Other	0	1.000 in.	1.372 in.	0.0630 in.	

DESIGN / OPERATING

DESIGN DESCRIPTION	DESIGN PRESS.	DESIGN TEMP.	OPERATING PRESS.	OPERATING TEMP.	SERVICE
PRIMARY DESIGN	500 PSI	500 °F	421 PSI	235 °F	GAS-SWEET



TUBE STATIC

TUBE INFORMATION	NO. OF PASSES	CORROSION ALL.	MATERIAL	TUBE NOMINAL	TUBE SIZE
		in / mm	Need List Of Common Tube Materials	in / mm	in / Gua



PSV NAME PLATE DATA:

	PSV. 1	PSV. 2	PSV. 3	PSV. 4
Tag Number:				
Serial Number:				
Inlet Size - (Rating/Type):				
Outlet Size - (Rating/Type):				
Capacity (SCFM) Or				
Model Number:				
Manufacturer:	Consolidated - Mercer - Crosby - Farris - Kensington - Taylor - Kunkle - Baird - Hydro Seal - Anderson - Greenwood			
Set Pressure:	PSI KPa			
Set Date:				
Location:				
CRN:				
Service Interval:				
Service Company:				

POTENTIAL DAMAGE TYPE AND LOCATION:

POTENTIAL DAMAGE MECHANISMS:

PREVIOUS INSPECTION REPORTS:

INSPECTION METHODS:



INSPECTION NOTES:

INTERNAL CONDITION: TOWER IN GOOD CONDITION. NO CORROSION. 5 BUBBLE CAPS TO REPLACE. EXTERNAL SHELL CONDITION:- THE EXTERNAL SURFACE OF THIS VESSEL WAS NOTED IN GOOD CONDITION. THE VESSEL PAINT WAS NOTED IN GOOD CONDITION. THERE WAS NO SIGN OF EXTERNAL CORROSION. ALL WELDS WERE INTACT AND THERE WERE, INSULATION CONDITION:- THE INSULATION WAS NOTED IN GOOD CONDITION. (LOWER 4" H, UPPER 2" H), FLANGE CONDITION:- THE NOZZLE ASSEMBLIES WERE PAINTED. THE PAINT ON THE NOZZLES WAS ALSO IN GOOD CONDITION, NO SIGNS OF CORROSION. THE ASSOCIATED BOLTING AND GASKETS WERE IN PLACE AND APPEARED TO BE TIGHT. ALL WELDS WERE INTACT AND, INSPECTION DATA- EXTERNAL PIPING CONDITION: THE OUTLET PIPING WAS PAINTED AND NOTED IN GOOD CONDITION, WITH NO EVIDENCE OF EXTERNAL, CORROSION. GOOD CONDITION AROUND VESSEL. THE ASSOCIATED BOLTING AND GASKETS WERE IN PLACE AND APPEARED TO BE IN GOOD-CONDITION. ALL ASSOCIATED WELDS WERE INTACT AND SHOWED NO SIGNS OF DETERIORATION OR VISIBLE CRACKING., PIPE SUPPORT CONDITION:- THE PIPE SUPPORTS WERE NOTED IN GOOD CONDITION., INSTRUMENTATION:- THE ASSOCIATED INSTRUMENTATION WAS NOTED IN GOOD WORKING CONDITION., FIRE TUBE & STACK:- NOT APPLICABLE, DEMISTER CONDITION:- NOT APPLICABLE, FOUNDATION CONDITION:- THE VESSEL IS SECURELY BOLTED DOWN. THE CONCRETE PAD AND VESSEL SKIRT/BASE WERE NOTED IN GOOD CONDITION. THE VESSEL WAS PROPERLY GROUNDED AT THE SKIRT. PEDESTALS ARE GOOD., NDE / CORROSION SURVEY STATUS:- 1999-11-24 RIVEST,

INSPECTION NOTES:

INTERNAL CONDITION: TOWER IN GOOD CONDITION. NO CORROSION. 5 BUBBLE CAPS TO REPLACE. EXTERNAL SHELL CONDITION:- THE EXTERNAL SURFACE OF THIS VESSEL WAS NOTED IN GOOD CONDITION. THE VESSEL PAINT WAS NOTED IN GOOD CONDITION. THERE WAS NO SIGN OF EXTERNAL CORROSION. ALL WELDS WERE INTACT AND THERE WERE, INSULATION CONDITION:- THE INSULATION WAS NOTED IN GOOD CONDITION. (LOWER 4" H, UPPER 2" H), FLANGE CONDITION:- THE NOZZLE ASSEMBLIES WERE PAINTED. THE PAINT ON THE NOZZLES WAS ALSO IN GOOD CONDITION, NO SIGNS OF CORROSION. THE ASSOCIATED BOLTING AND GASKETS WERE IN PLACE AND APPEARED TO BE TIGHT. ALL WELDS WERE INTACT AND, INSPECTION DATA- EXTERNAL PIPING CONDITION: THE OUTLET PIPING WAS PAINTED AND NOTED IN GOOD CONDITION, WITH NO EVIDENCE OF EXTERNAL, CORROSION. GOOD CONDITION AROUND VESSEL. THE ASSOCIATED BOLTING AND GASKETS WERE IN PLACE AND APPEARED TO BE IN GOOD-CONDITION. ALL ASSOCIATED WELDS WERE INTACT AND SHOWED NO SIGNS OF DETERIORATION OR VISIBLE CRACKING., PIPE SUPPORT CONDITION:- THE PIPE SUPPORTS WERE NOTED IN GOOD CONDITION., INSTRUMENTATION:- THE ASSOCIATED INSTRUMENTATION WAS NOTED IN GOOD WORKING CONDITION., FIRE TUBE & STACK:- NOT APPLICABLE, DEMISTER CONDITION:- NOT APPLICABLE, FOUNDATION CONDITION:- THE VESSEL IS SECURELY BOLTED DOWN. THE CONCRETE PAD AND VESSEL SKIRT/BASE WERE NOTED IN GOOD CONDITION. THE VESSEL WAS PROPERLY GROUNDED AT THE SKIRT. PEDESTALS ARE GOOD., NDE / CORROSION SURVEY STATUS:- 1999-11-24 RIVEST,

RECOMMENDED INSPECTION INTERVALS:

Next UT Creep Wave:	_____	Years:	_____
Next UT Corrosion Survey:	_____	Years:	_____
Next Internal Inspection:	05/12/2006	Years:	6 YEARS
Next External Inspection:	05/11/2005	Years:	5 YEARS
Next PSV Service:	PSV ID:	Bench Test Due:	



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FACILITY:		LSD:	01-24-096-05W6M
VESSEL NAME:	DE-ETHANIZER COLUMN(TUBE SIDE)		
FACILITY VESSEL IDENTIFICATION:		MAINTENANCE NO. (Maximo):	
IS VESSEL ASSOCIATED WITH A COMPRESSOR?	Yes No		
ORIENTATION:	Horizontal	Vertical	Sphere
SEPARATOR TYPE (if applicable):	2 Phase	3 Phase	N/A
STATUS:			
DIRECT FIRED VESSEL:	Yes No	MANWAY:	
THERMAL INSULATION:		Internal Access Through:	

NAME PLATE:

JURISDICTION NUMBER :		CRN NUMBER:	E4357.2
BP TAG NUMBER:	T-1	N. BOARD NUMBER:	
VESSEL SERIAL NUMBER:		CAPACITY (Volume):	NS
DRAWING NUMBER:		CHANNEL MATERIAL:	in. NS N/A
CHANNEL THICKNESS:		HEAT TREATMENT:	
CODE PARAMETERS:	U, UW, UM	JOINT EFFICIENCY (J.E.):	NS
MANUFACTURER:		YEAR BUILT:	

INSULATION / COATING

DESCRIPTION	INTERNAL COATING			EXTERNAL COATING			INSULATION			
	COATED?	THK	TYPE	DATE	COATED?	THK	TYPE	DATE	INSULATED?	DENSITY

SHELL STATIC

SHELL	MATERIAL	H.T.	NOMINAL	DIAMETER	LENGTH	C.A.	RT LEVEL
	SA-106B, SA-516-70, SA-53B, SA-516-70N, SA-515-70, Other	Y / N	in / mm	in / mm	in / mm	in / mm	

HEAD STATIC

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	SA-106B, SA-516-70, SA-53B, SA-516-70N, SA-515-70, Other	Y / N	in / mm	in / mm	in / mm	



DESIGN / OPERATING

DESIGN DESCRIPTION	DESIGN PRESS. PSI / KPa	DESIGN TEMP. °F / °C	OPERATING PRESS. PSI / KPa	OPERATING TEMP. °F / °C	SERVICE
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TUBE STATIC

TUBE INFORMATION	NO. OF PASSES	CORROSION ALL. in / mm	MATERIAL Need List Of Common Tube Materials	TUBE NOMINAL in / mm	TUBE SIZE in / Gua
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PSV NAME PLATE DATA:

	PSV. 1	PSV. 2	PSV. 3	PSV. 4
Tag Number:				
Serial Number:				
Inlet Size - (Rating/Type):				
Outlet Size - (Rating/Type):				
Capacity (SCFM) Or				
Model Number:				
Manufacturer:	Consolidated - Mercer - Crosby - Farris - Kensington - Taylor - Kunkle - Baird - Hydro Seal - Anderson - Greenwood			
Set Pressure:	PSI KPa			
Set Date:				
Location:				
CRN:				
Service Interval:				
Service Company:				

POTENTIAL DAMAGE TYPE AND LOCATION:

POTENTIAL DAMAGE MECHANISMS:

PREVIOUS INSPECTION REPORTS:

INSPECTION METHODS:

INSPECTION NOTES:

RECOMMENDED INSPECTION INTERVALS:

Next UT Creep Wave: _____ Years: _____

Next UT Corrosion Survey: _____ Years: _____

Next Internal Inspection: _____ Years: _____

Next External Inspection: _____ Years: _____

Next PSV Service: PSV ID: _____ Bench Test Due: _____