



PRESSURE VESSEL DATA:

COMPANY:	BP CANADA ENERGY COMPANY	LOCATION	BP CHINCHAGA GAS PLANT
FACILITY:		LSD:	01-24-096-05W6M
VESSEL NAME:	HOT OIL SURGE TANK		
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:	In Service		
DIRECT FIRED VESSEL:	Yes No	MANWAY:	
THERMAL INSULATION:		Internal Access Through:	

NAME PLATE:

JURISDICTION NUMBER :	A0176623	CRN NUMBER:	E3451.2
BP TAG NUMBER:	V-15	N. BOARD NUMBER:	
VESSEL SERIAL NUMBER:	82-17	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:	HYCON CORPORATION	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
SHELL SIDE 1	SA-51670	N	0.374 in.	in / mm	in / mm	0.0630 in.	SPOT

HEAD STATIC

HEAD	MATERIAL	H.T.	NOMINAL	DIAMETER	C.A.	RT LEVEL
SHELL SIDE 1	SA-51670	N	0.250 in.	in / mm	0.0630 in.	SPOT

DESIGN / OPERATING

DESIGN DESCRIPTION	DESIGN PRESS.	DESIGN TEMP.	OPERATING PRESS.	OPERATING TEMP.	SERVICE
SHELL SIDE 1	150 PSI	550 °F	80 PSI	284 °F	



PSV NAME PLATE DATA:

	PSV. 1	PSV. 2	PSV. 3	PSV. 4
Tag Number:	113 /			
Serial Number:	82C522	73C3480		
Inlet Size - (Rating/Type):	1.0 in	1.0 in MNPT		
Outlet Size - (Rating/Type):		1.0 in FNPT		
Capacity (SCFM) Or	239239 SCFM	240 SCFM		
Model Number:	1975C3	1970C3		
Manufacturer:	CONSOLIDATED	CONSOLIDATED		
Set Pressure:	125 PSI	125 PSI		
Set Date:				
Location:				
CRN:				
Service Interval:				
Service Company:				

POTENTIAL DAMAGE TYPE AND LOCATION:

Fabrication Defects: Thinning (includes general, localized and pitting): Shell, heads and nozzles.High Stress Areas: Subject to water composition around nozzles, tee joints, attachment and closing welds.

POTENTIAL DAMAGE MECHANISMS:

Fabrication Defects: Nothing Unusual Expected
Corrosion: Water Vapour, pH, crevice/under deposit, suspended solids.
Hydrogen Effects: N/A
Mechanical Effects: Erosion (thinning), Overload (dimensional changes, thinning)
Metallurgical & environmental Effects: None Anticipated

PREVIOUS INSPECTION REPORTS:

PSV ? THE PSV IS OPERATING. INTERNAL INSPECTION ? THE INTERNAL SURFACE WAS NOT EVALUATED DURING THE LAST VISUAL INSPECTION. EXTERNAL SHELL INSPECTION ? INSULATED AND CLADDING IS IN GOOD CONDITION, NO CONCERNS NOTED. NOTE SADDLES ARE INSULATED AS WELL. FLANGE CONDITION ? ALL ASSOCIATED FLANGE AND BOLTING WERE INTACT AND SHOWED NO EVIDENCE OF DETERIORATION, VISIBLE CRACKING OR PROCESS LEAKS. THERE WAS NO EVIDENCE OF CORROSION. NOZZLES ? THE NOZZLES APPEAR IN GOOD CONDITION. ? PIPING ? THE PIPING WAS PAINTED AND SOME MINOR CHIPS WERE NOTED. THE ASSOCIATED PRESSURE WELDS WERE INTACT AND SHOWED NO SIGNS OF DETERIORATION OR VISIBLE CRACKING. ? NO VISIBLE CORROSION WAS NOTED. PIPE SUPPORTS ? THE ASSOCIATED PIPE SUPPORTS WERE IN GOOD CONDITION WITH NO EVIDENCE OF ANY MECHANICAL DAMAGE OR DEGRADATION. INSTRUMENTATION ? THE ASSOCIATED INSTRUMENTATION APPEARS TO BE IN GOOD WORKING ORDER. FOUNDATION CONDITION ? THE VESSEL SKIRT, BASEPLATE & ANCHOR BOLTS WERE IN GOOD CONDITION. NO EVIDENCE OF MECHANICAL DETERIORATION NOTED AT THE TIME OF THIS INSPECTION. GROUND WIRE VISIBLE AND ATTACHED. GENERAL COMMENTS

INSPECTION METHODS:

UT: Pre-turnaround survey of all TML's identified on the UT drawings. Also thickness readings in areas of corrosion. VISUAL: Total vessel and associated piping.VIDEO PROBE: through inspection plug, all internals and weldsDIMENSIONAL MEASUREMENTS: If blistering, buckling or deformation found.



INSPECTION NOTES:

2005:
INTERNAL:
THE INTERNAL SURFACE WAS NOT EVALUATED DURING THE VISUAL INSPECTION.
PSV:
THE SEALS ON THE PSV ARE INTACT.
THE DISCHARGE PIPING IS PROPERLY VENTED TO THE FLARE.

EXTERNAL:
SHELL CONDITION:
INSULATED
INSTRUMENTATION:
THE ASSOCIATED INSTRUMENTATION IS IN GOOD WORKING ORDER.
THE INSTRUMENTATION TUBING IS SECURED.
INSULATION CONDITION:
THE VESSEL AND PIPE CLADDING AND INSULATION ARE IN GOOD CONDITION. THE CLADDING IS NOT SEALED FROM THE WEATHER.
THE VESSEL IS INSIDE A BUILDING.
NOZZLE CONDITION:
THE NOZZLES ARE IN GOOD MECHANICAL CONDITION WITH NO MEASURABLE CORROSION ON THE EXTERNAL SURFACES.
FLANGE CONDITION:
THE FLANGES AND NPT CONNECTIONS ARE IN GOOD MECHANICAL CONDITION WITH NO EVIDENCE OF MEASURABLE CORROSION.
FLANGE RATING: 150#.
MINOR LEAKS NOTED.
PIPING CONDITION:
THE PIPING IS THREADED AND BOLTED.
THE PIPING COATING HAS SOME MINOR CHIPS, OIL, AND DIRT.
THE ASSOCIATED PRESSURE WELDS ARE INTACT AND SHOW NO SIGNS OF DETERIORATION OR VISIBLE CRACKING.
THE PIPING IS INSULATED AND PROTECTED WITH METAL CLADDING. THE CLADDING IS IN GOOD CONDITION AND IS NOT SEALED FROM THE WEATHER.
PIPING SYSTEM PARTIALLY INSULATED.
PIPE SUPPORT CONDITION:
THE ASSOCIATED PIPE SUPPORTS ARE IN GOOD MECHANICAL CONDITION WITH NO EVIDENCE OF ANY MECHANICAL DAMAGE OR DEGRADATION.
THE ASSOCIATED PIPE SUPPORT CLAMPS ARE TIGHT AND INTACT.
BOLTED PIPE FLANGE CONNECTIONS:
THE ASSOCIATED PIPING FLANGE BOLTING AND GASKETS ARE IN PLACE AND TIGHT.
ALL ASSOCIATED FLANGE BOLTS ARE INTACT AND SHOW NO EVIDENCE OF DETERIORATION, VISIBLE CRACKING OR PROCESS LEAKS.
THE BOLTS ARE THE CORRECT LENGTH AND DIAMETER.
PACKING LEAKS ON VALVES.
THREADED PIPE CONNECTIONS:
MINOR LEAKS AT THREADED CONNECTIONS.
FOUNDATION CONDITION:
THE VESSEL IS WELDED TO SADDLES. THE SADDLES ARE BOLTED TO THE SKID. THERE IS NO EVIDENCE OF MECHANICAL DETERIORATION OR CORROSION.
THE SADDLES ARE PROTECTED WITH A FIRE-PROOF INSULATION. THE INSULATION IS IN GOOD CONDITION.

RECOMMENDED INSPECTION INTERVALS:

Next UT Creep Wave:	_____	Years:	_____
Next UT Corrosion Survey:	_____	Years:	_____
Next Internal Inspection:	12/11/2000	Years:	0 YEARS
Next External Inspection:	03/30/2010	Years:	5 YEARS
Next PSV Service:	PSV ID:	Bench Test Due:	
	SN 82C522		12/01/2007
	SN 73C3480		04/25/2011