



Equipment Data Sheet

SI UNITS

PRESSURE VESSEL - HORIZONTAL

DOCUMENT No.	CS15481-DS-cc	PAGE	1 OF 2	REV.	B	DATE	18/07/2011
PROJECT No.	CS15481	RFQ/RFP NO.					
CLIENT	HUSKY	LOCATION	HUSKY ANSEL GAS PLANT				
PROJECT	HC Drain Drum	VENDOR					
SERVICE	Oil / Gas	TAG	V-xxx	QTY	1		
MODEL	Horizontal 3 phase sep.	SIZE	1524 mm I.D. x 3658 mm S/S	SERIAL			

MANUFACTURER

APPLICABLE TO:

☒ PROPOSAL

☐ PURCHASE

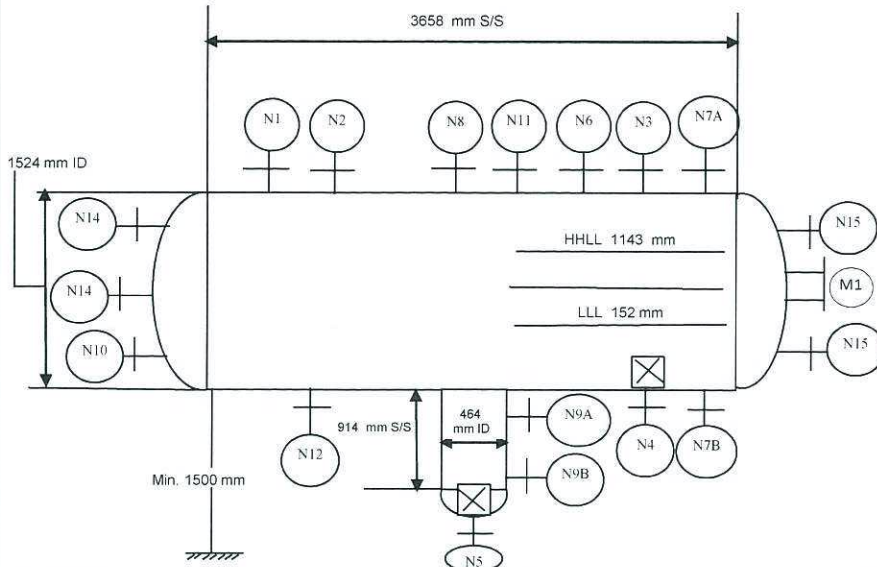
☐ AS BUILT

SITE: Husky Ansel Gas Plant

TYPE: Horizontal

UNIT: 1

NO. STAGES: N/A



PROCESS CONDITIONS

INLET CONDITIONS:

INLET TEMP:	16.21 °C
INLET PRESSURE:	14.0 kPag
GAS FLOW RATE:	44.4 e ³ m ³ /d
GAS DENSITY:	2.607 kg/m ³
GAS VISCOSITY:	0.0076 Cp
HC LIQUID FLOW RATE:	113.7 m ³ /d
HC LIQUID DENSITY:	649.2 kg/m ³
HC LIQUID VISCOSITY:	0.28 cP
OIL FLOW RATE:	2.4 m ³ /d
OIL DENSITY:	1030.0 kg/m ³
OIL VISCOSITY:	20.00 cP

GAS OUTLET:

LIQUID DROPLET CARRYOVER:
300 micron or less

REMARKS

DESIGN DATA

DESIGN CODE	ASME VIII, DIV 1 2010 Ed.	☒ U-STAMP
FLUID	HYDROCARBON MIXED DRAIN	REQUIRED
☒ SWEET SERVICE	☐ SOUR SERVICE	☐ LETHAL
OPERATING TEMPERATURE AND PRESSURE		
INTERNAL	14 kPag	@ 16.21 (Note 1) °C
EXTERNAL	N/A kPag	@ N/A °C
DESIGN TEMPERATURE AND PRESSURE		
INTERNAL	350 kPag	@ -199 / 59 °C
EXTERNAL	Full Vacuum kPag	@ -46 / 59 °C
MAWP	VENDOR SPECIFY kPag	
MINIMUM DESIGN METAL TEMPERATURE		
		-199 °C
☐ PWHT	REASON	BY CODE
	PWHT REQUIRED FOR	☐ CLIENT ☐ PROCESS ☐ CODE
RADIOGRAPHY	JOINT EFF: SHELL	100 % HEAD 100 %
HYDROTEST	BY CODE	kPag ☒ HORIZ. ☐ VERT.
WIND VELOCITY	160 (note 8 km/h)	EARTHQUAKE ZONE
☐ REGISTERED IN THE JURISDICTION OF		ALBERTA
CAPACITY	7.6 m ³	
INSULATION	6" mineral wool	
FIREPROOFING		

REMARKS

Note 1: Operating temperature range will be 49°C to -90°C according to operation.

Note 2: minimum shell or head thickness to be 7.27mm

MATERIALS

SHELL

TYPE

ASME MATERIAL

DESIGN THICK.

CORROSION ALL.

TOTAL MIN THICK.

SA-240	Type 316/316L
1	
1.6	
7 (5/16") (see note 2)	

HEADS

TYPE

ASME MATERIAL

DESIGN THICK.

CORROSION ALL.

TOTAL MIN THICK.

Semi-Ellipsoidal	2:1 Ratio
SA-240	Type 316/316L
BY VENDOR	
1.6	
7 (5/16") (see note 2)	

SADDLES

TRAYS

SUPPORT

BOLTS

NUTS

FLANGES

NOZZLE-NECKS

GASKETS

VESSEL TRIM

WELD FITTINGS

SA-240 TP 316/316L			
INT.		EXT.	
INT.	SA-193	EXT.	Gr. BM Class 2
INT.	SA-194	EXT.	Gr. 8
SA-182 F316/316L			
SA-312 TP 316/316L			
S.W. 316L center, inner and wind ring materials			
SA-312 TP 316/316L			
NOT USED			

NOTE: ☒ INDICATES INFORMATION TO BE COMPLETED BY PURCHASER ☐ BY VENDOR

* A, B, C, ... : INDICATES A PRE-ORDER REVISION 0: INDICATES AN ORDER REVISION 1, 2, 3, ... : INDICATES A POST-ORDER REVISION

REV	DATE	BY	MECH	PROC	APP.	DESCRIPTION
A	21-Jun-11	IJ	DGC	IJ	MN	ISSUED FOR PROPOSAL
B	18-Jul-11	DB	DGC	IJ	MN	RE-ISSUED FOR PROPOSAL

SI UNITS

PRESSURE VESSEL - HORIZONTAL

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PROJECT HC Drain Drum	VENDOR		
SERVICE Oil / Gas	TAG	V-xxx	QTY 1
MODEL Horizontal 3 phase sep.	SIZE 1524 mm I.D. x 3658 mm S/S	SERIAL	Alberta

REV*

1	MANUFACTURER			MODEL	Horizontal 3 phase sep.	SIZE	1524 mm i.D. x 3658 mm S/S	SERIAL	Alberta
2	FABRICATOR TO FURNISH								
3	☒	SADDLES	☐	SEAL PAN SUPPORT	☐	JACK & ROLL LUGS	☒	VORTEX BREAKER	
4	☐	PLATFORM CLIPS	☐	MIST ELIMINATOR	☐	EXT. PAINTING / COATING	☐	SYPHON DRAIN	
5	☐	PLATFORMS	☐	MIST ELIMIN. SUPPORT	☐	INT. COATING	☐	STUDS & NUTS	
6	☒	LADDER CLIPS	☐	WEIR	☒	GROUND LUG	☒	GASKETS	
7	☐	LADDERS	☐	SAND BLASTING	☐	INLET NOZZLE DISTRIBUTOR	☒	BLIND FLANGES	
8	☒	INSULATION	☐	PIPE COIL	☒	SPECIAL NOZZLE BREAKER	☐	FIREPROOF'G CLIPS	
9	☒	INSULATION RINGS	☒	LIFTING LUGS	☐		☐		
10	☐	PIPE SUPPORT CLIPS	☐		☐		☐		
11	☐	PIPE SUPPORTS	☐						
12	☐	TOP DAVIT	☐						
13	☒	MANWAY DAVIT	☐						
14	☐	MANWAY HINGE	☐						
15	WEIGHTS VESSEL EMPTY WT. _____ kg SHIP WT. _____ kg OPERATING WT. _____ kg HYDROTEST WT. _____ kg								

[illegible]

REMARKS

Note 3: Delta Ferrite testing $\Delta f_e < 3$ (WRC diagram)

Note 4: If required, Charpy impact tests shall be done at the minimum design metal temperature or lower and meet energy absorption req's

Note 5: Flanges shall comply with ANSI B16.5

Note 6: Flange bolt holes shall straddle the natural centerline of the vessel

Note 7: Deleted

Note 8: Wind loadings to comply with National Building Code of Canada, Div B, Part 4, section 4.4

Note 9: Horizontal vessel to be supported on two supports (Husky standard drawing HSD-30-01). Overlap of wear plate and shell weld seam not permitted.

Note 10: Insulation support rings shall be in accordance of Husky Standard drawing A4-SD-0009-12

Note 11: Gaskets for raised face flanges shall be spiral wound, flexible graphite filled, fully annealed 316 or 304 stainless steel flex type

Note 12: Nozzles to have internal projection c/w 316 ss heating loop piping

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