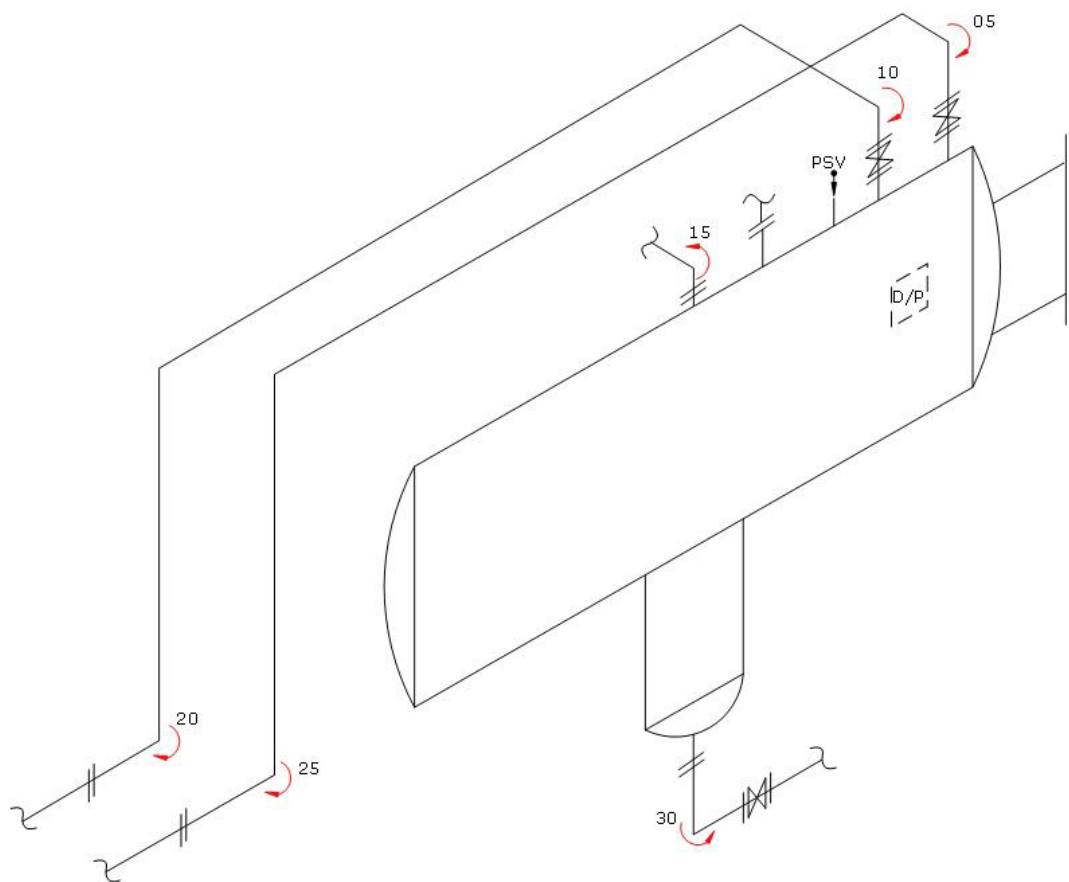




Location Name:	ANSELL GAS PLANT	LSD:	7-27-51-19W5
A#:	A0630531	Equipment/Tag No.	N/A
Equipment Description:	HC DRAIN DRUM	Serial Number:	12459
		CRN: (or other ID#)	X0750
MAWP:	82.69 PSIG	Design Temp:	138°F
Shell Material:	SA 240 316	Head Material:	SA 240 316
Shell Thickness:	0.375"	Head Thickness:	0.3125"
Corrosion Allowance:	0.0625"	Date Built:	2012
Size:	INS	Manufacturer:	R.C TECHNICAL WELDING
RT:		Pipe / Rolled Plate:	ROLLED PLATE

Notes: INSULATION IS TO THICK TO CUT PORTS ON SHELL, VESSEL IS STAINLESS STEEL.









Ultrasonic Corrosion Survey

Survey Name: Husky Energy

Date: Jun 8, 2014

Inspector: W. Gill

LSD: 07-27-051-19W5	Area: Ansell	Location: Gas Plant
A #: A0630531	Tag Number:	Vessel Name: HC Drain Drum
CRN: X0750	Year Built: 2012	Serial Number: 12459
	Vessel CA: 1.5875 mm	Manufacturer: R.C Technical Welding
	Shell MAWP: 12psi	Tube MAWP: MAWTF: 138°F

TML Description	Baseline	Material: A-234-WPB
05 Piping	2014	Corr. Rate
Shape: 90° Elbow	Min 3.280	Flag 2.423
OD: 2.375"	Avg 3.680	CA 0.346
Spec: ASME B31.3	Comments:	Nominal 2.769
		Assumed
		Remaining Life:
		Retirement Date:

TML Description	Baseline	Material: A-234-WPB
10 Piping	2014	Corr. Rate
Shape: 90° Elbow	Min 3.150	Flag 2.423
OD: 2.375"	Avg 3.660	CA 0.346
Spec: ASME B31.3	Comments:	Nominal 2.769
		Assumed
		Remaining Life:
		Retirement Date:

TML Description	Baseline	Material: A-234-WPB
15 Piping	2014	Corr. Rate
Shape: 90° Elbow	Min 5.080	Flag 4.845
OD: 2.375"	Avg 5.640	CA 0.692
Spec: ASME B31.3	Comments:	Nominal 5.537
		Assumed
		Remaining Life:
		Retirement Date:

TML Description	Baseline	Material: A-234-WPB
20 Piping	2014	Corr. Rate
Shape: 90° Elbow	Min 3.180	Flag 2.423
OD: 2.375"	Avg 3.630	CA 0.346
Spec: ASME B31.3	Comments:	Nominal 2.769
		Assumed
		Remaining Life:
		Retirement Date:



Ultrasonic Corrosion Survey

Survey Name: Husky Energy

Date: Jun 8, 2014

Inspector: W. Gill

LSD: 07-27-051-19W5	Area: Ansell	Location: Gas Plant
A #: A0630531	Tag Number:	Vessel Name: HC Drain Drum
CRN: X0750	Year Built: 2012	Serial Number: 12459
	Vessel CA: 1.5875 mm	Manufacturer: R.C Technical Welding
	Shell MAWP: 12psi	Tube MAWP: MAWTF: 138°F

TML Description	Baseline	Material: A-234-WPB
25 Piping	2014	Corr. Rate
Shape: 90° Elbow	Min 3.120	Flag 2.423
OD: 2.375"	Avg 3.530	CA 0.346
Spec: ASME B31.3	Comments:	Nominal 2.769
		T Min Assumed
		Remaining Life:
		Retirement Date:

TML Description	Baseline	Material: A-234-WPB
30 Piping	2014	Corr. Rate
Shape: 90° Elbow	Min 4.930	Flag 4.845
OD: 2.375"	Avg 5.380	CA 0.692
Spec: ASME B31.3	Comments:	Nominal 5.537
		T Min Assumed
		Remaining Life:
		Retirement Date:

630531

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 Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by RC TECHNICAL WELDING & FABRICATION, Inc., 12814 Mula Lane, Stafford, TX 77477
(Name and address of Manufacturer)
2. Manufactured for VAREC BIOGAS, 9803 Mula Road, Stafford, TX 77477
(Name and address of Purchaser)
3. Location of installation Unknown
(Name and address)
4. Type Horizontal 12459 X0750.2 RCT12-12459rev.2 566 2012
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2010
Year
- to 2011 2714
(Addenda, if applicable (date)) (Code Case numbers) (Special service per UG-120(d))
6. Shell SA240 316/316L SS 0.375" 0.0625" 60"ID 12'-0" Seam to Seam
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))
7. Seams Welded RT-1 100% None - Type-1 RT-1 100 2
(Long. (welded, dbl., angl., lap, butt)) (R.T. (spot or full)) (Eff., %) (H.T. temp.) (Time, hr) (Girth (welded, dbl., angl., lap, butt)) (R.T. (spot or full)) (Eff., %) (No. of courses)
8. Heads: (a) Material SA240 316/316L SS (b) Material SA240 316/316L SS
(Spec. no., grade) (Spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Left End	0.3125"	0.0625"	-	-	2:1	-	-	-	Concave
(b)	Right End	0.3125"	0.0625"	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastenings) N/A

(Material spec. number, grade, size, number)

9. MAWP 82.69psi 15psi at max. temp. 138.2F 138.2F
(Internal) (External) (Internal) (External)
- Min. design metal temp. -155F at 82.69psi Hydro., pneu., or comb. test pressure 107.49psi
- Proof test N/A

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Boot	1	20", 150#	WN	* See U-4	** See U-4	0.375"	0.0625"	sa240316/316L	uw-16.1,h	-	Shell
liquid inlet/drain/inlet/out	4	2", 150#	WN	* See U-4	** See U-4	0.218"	0.0625"	N/A	uw-16.1,e	-	Shell
Gas Out	1	4", 150#	WN	* See U-4	** See U-4	0.237"	0.0625"	sa240316/316L	uw-16.1,h	-	Shell
psv/return/level/pressure	6	2", 150#	WN	* See U-4	** See U-4	0.218"	0.0625"	N/A	uw-16.1,e	-	Shell
temp/heating/loop	3	2", 150#	WN	* See U-4	** See U-4	0.218"	0.0625"	N/A	uw-16.1,e	-	Head
vent/drain/spare	3	2", 150#	WN	* See U-4	** See U-4	0.218"	0.0625"	N/A	uw-16.1,e	-	Shell

11. Supports: Skirt NO Lugs N/A Lags N/A Other (2) Saddles Attached Welded to Shell
(Yes or no) (Number) (Number) (Describe) (Where and how)
12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

(Name of part, item number, Manufacturer's name and identifying stamp)

A) Safety valve per UG-125, B) Exempt from impact test per UHA-51(d),(e) and (f), C) Hydrotested in horizontal position

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 26130
expires 02/04/2016

Date 07/12/2013 Co. name RC Technical Welding & Fabrication, Inc. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by RC Technical Welding & Fabrication, Inc. at 12814 Mula Lane, Stafford, TX 77477
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of TEXAS and employed by One Beacon Insurance Company, Lynn, MA
have inspected the component described in this Manufacturer's Data Report on 11/05/2012, and state that,

to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 07/12/2016 Signed [Signature] Commissions NB8604SB, TX925
(Authorized Inspector) (National Board (incl. endorsements), State, Province, and number)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by	RC TECHNICAL WELDING & FABRICATION, Inc.; 12814 Mula Lane, Stafford, TX 77477		
	(Name and address of Manufacturer)		
2. Manufactured for	VAREC BIOGAS, 9803 Mula Road, Stafford, TX 77477		
	(Name and address of Purchaser)		
3. Location of installation	Unknown		
	(Name and address)		
4. Type	Horizontal	Vessel	12459
	(Horizontal, vertical, or sphere)	(Tank, separator, heat exch., etc.)	(Manufacturer's serial number)
	X0750.2	RCT12-12459rev.2	566
	(CRN)	(Drawing number)	(National Board number)
			2012
			(Year built)

[illegible]

Certificate of Authorization Type U No. 26130 Expires 02/04/2016
 Date 07/12/2013 Name EC Technical Welding & Fabrication, Inc. Signed [Signature]
 (Manufacturer) (Representative)
 Date 07/12/2013 Name [Signature] Commissions AB 8604 AB TX 92
 (Authorized Inspector) (National Board (incl. endorsements), State, Province, and number)