

Data Manual for Progress Energy Canada LTD.

S-21886
A#: 634407
S/N: 21400
AFE#: 117092
CRN: R3788.213

Manufacturer of Gas Processing Equipment

Separators | Lineheaters | Dehydrators | Treaters | Tanks | Bullets | Vapor Tight Tanks | Vessels |
Metering Skids | Flowmizers | Separator Tank Combos | Header Packages | Flare Stacks

Phone: (403) 624-6688

Toll Free: 1-888-745-4667

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MANUFACTURER ' S

DATA

REPORT

21400

Vertical Separator

A 634407

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: Platinum Energy Services Corp. 7550 - 114 avenue SE Calgary, Alberta, Canada T2C 4T3
(Name and address of Manufacturer)
2. Manufactured for: Platinum Energy Services Corp. 1020-40 Avenue NE. Calgary, Alberta, Canada T2E 6Y1
(Name and address of Purchaser)
3. Location of installation: Platinum Energy Services Corp. 1020-40 Avenue NE. Calgary, Alberta, Canada T2E 6Y1 *STOCK*
(Name and address)
4. Type: Vertical 21400 R3788.213 24" O.D. x 7'-6" S/S ~~ 2013
(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 specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to the ASME rules, Section VIII, Division 1 2010
Year

to 2011a ~~ ~~
{addenda(date)} (Code Case numbers) {Special Service per UG-120(d)}
6. Shell: SA516-70N 1.00" 0.125" 22" ID. 7'-6"
(Material spec. number, grade) (Nominal thickness) (Corr. Allow.) (Inner diameter) (length overall)
7. Seams: Type 1 Full 100% N/A N/A Type 1 Spot 70% 1
[Long. (welded, dbl, sngl., lap, butt)] [R.T. (spot or full)] [Eff., %] H.T. temp. (Time, hr) [Grth. (welded, dbl, sngl., lap, butt)] R.T. (spot or full) [Eff., %] (No. of courses)
8. Heads: (a) SA516-70N (b) SA516-70N
(Material spec. number grade or type) (H.T. - time & temp) (Material spec. number grade or type) (H.T. - time & temp)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	Top Head	0.9375"	0.125"	~~	~~	2:1	~~	~~	~~		X	~~	~~	~~
(b)	Bottom Head	0.9375"	0.125"	~~	~~	2:1	~~	~~	~~		X	~~	~~	~~

If removable, bolts used (describe other fastening) N/A
(Material spec. number grade, size, number)
9. MAWP 1440 psi ~~ at max temp. 100°F ~~
(Internal) (External) (Internal) (External)
Min. design metal temp. -20°F at 1440 psi Hydro test pressure 1872 psi
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	
Inlet	1	3" NPS	600 CI RFWN	SA106B	SA105N	0.600"	0.125"	SA516-70N	UW-16.1(c)	Type 1	Shell
Outlet	1	3" NPS	600 CI RFWN	SA106B	SA105N	0.600"	0.125"	SA516-70N	UW-16.1(c)	Type 1	Top Head
Drain	1	2" NPS	Smls/Cplg	*SA106B*	SA105N	0.344"	0.125"	Integral	UW-16.1(c)	~~	Bot. Head
Condensate & water out	2	2"	TOL	~~	SA105N	3000 CI	0.125"	Integral	UW-16.1(a)	~~	Shell
Aux. Cond. out, HUSD	2	2"	TOL	~~	SA105N	3000 CI	0.125"	Integral	UW-16.1(a)	~~	Shell
Inspections, PSV	3	2"	TOL	~~	SA105N	3000 CI	0.125"	Integral	UW-16.1(a)	~~	Shell
Condensate & water LC	2	2"	TOL	~~	SA105N	3000 CI	0.125"	Integral	UW-16.1(a)	~~	Shell
Condensate & water LG	4	3/4"	TOL	~~	SA105N	6000 CI	0.125"	Integral	UW-16.1(a)	~~	Shell
TI	1	3/4"	TOL	~~	SA105N	6000 CI	0.125"	Integral	UW-16.1(a)	~~	Shell
PI	1	1/2"	TOL	~~	SA105N	6000 CI	0.125"	Integral	UW-16.1(a)	~~	Shell

11. Supports: Skirt Yes Lugs None Legs None Others No Attached Bot. Head & welded
(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

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

Vessel Type: Vertical Separator *SA106B/ SA234WPB*
Construction Drawing: 21399-VES-01 Rev. 0 Hydro Tested in the Vertical Position Cubic Capacity: 22.3 cu.FT.
Impact Test Exemption: Exempt per UG-20(f) 1-5 & UCS-66(c)(g) Radiography: UW-11(a)5(b)

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 28,469 Expires: July 5, 2016

Date Dec 2/13 Co. Name Platinum Energy Services Corp. Signed B. M. M.
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

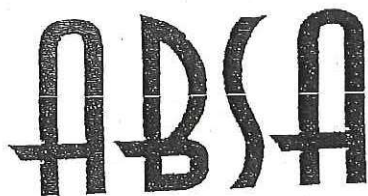
Vessel constructed by Platinum Energy Services Corp. at 7550 - 114 avenue SE Calgary, Alberta T2C 4T3
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Alberta and employed by ABSA

have inspected the component described in this Manufacturer's Data Report on DEC 02 2013, 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 DEC 02 2013 Signed Nilanjan Nag Commissions AB 242 NB 12860 A, B
Alberta (Authorized Inspector) [National Board (incl endorsements) State, Province and number]

CRN LETTER

21400
Vertical Separator



Alberta Boilers Safety Association

#200, 4208 - 97 Street

Edmonton, Alberta, Canada T6E 5Z9

Tel: (780) 437-9100 / Fax: (780) 437-7787

July 21, 2003

Dave Cochrane
PLATINUM ENERGY SERVICES CORP
7550 114 AVENUE SE
CALGARY, AB T2C 4T3

Dear Dave Cochrane,

The drawings, specifications and/or information received on July 03, 2003 are accepted for registration as follows:

CRN : R3788.2

Accepted on: July 21, 2003

Tracking No. : 2003-04460

Reg Type : New Design

Drawing No. : 24 O.D, X 7 FT 6 IN S/S 600# Rev 2 As Noted

Description

Design Pressure

Design Temperature

MDMT

Internal Pressure

9928 kPa

38°C

-29°C

The registration is conditional on your compliance with the following notes:

I have taken the liberty of correcting your drawing to show that:

- Optional PWHT shall be performed in conjunction with adequate welding procedures, note #16.
- Finished opening for 2" TOL not to exceed 2.125", note #17.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

Sincerely,

Zana Radisavljevic

RADISAVLJEVIC, ZANA, C.E.T.
Design Surveyor



TO: PLATINUM ENERGY SERVICES CORP
7550 114TH AVE SE
CALGARY AB
T2C 4T3

Registered: 2003/11/17
Journal #: 32382
Account #: 45088

Attn: CURT RINDAL

Re: PLATINUM ENERGY SERVICES CORP

DESIGN REGISTRATION

C.R.N.

R3788.21

Drawings / Documents	Description			
SEPARATOR 24 OD X 7'-6" S/S 600#	MDMT	MAWT	MAWP	EXT PRESS
	-----	-----	-----	-----
	-20 F	100 F	1440 psi	
	Code: ASME Sec VIII Div 1, 01 Ed.			

Remarks: This design has been registered as noted above. An invoice for survey will follow in the amount of \$ 60.00

Yours truly,

R. TUAZON

Design Surveyor

dc

Corrections and
Public Safety

Licensing and Inspections

Boiler & Pressure Vessel Safety
330, 1855 Victoria Avenue
REGINA, SK S4P 3V7
PH : (306)787-4522
FAX : (306)787-9273

REGISTRATION APPROVAL

Monday, November 17, 2003

Platinum Energy Services Corp.
7550 - 114th Avenue SE
Calgary, Alberta
T2C 4T3

Our File 33055[0V]

ATTENTION : Dave Cochrane, CET

With reference to your submission respecting the registration of the item below, for legal use in the province, please note we have surveyed, approved and registered this design as noted.

MANUFACTURER :	Platinum Energy Services Corp.	
ITEM :	DRAWING NUMBER :	CRN :
Separator	24" O.D. x 7'- 6" S/S 600# Rev 2	R3788.23

An invoice covering survey and registration fees will be forwarded from our Codes and Standards Compliance Office.

We wish to point out that every vessel must be constructed strictly in accordance with the registered design, CSA B-51, and the Saskatchewan Boiler and Pressure Vessel Act and associated regulations.

In addition to stamping every vessel with the registration number given above and as required in CSA Code B51, a Manufacturer's Data Report must be forwarded to this office immediately at the time a vessel is shipped. Such forms may be obtained upon request.

Sincerely,

John Gosselink

Codes and Standards Compliance

#327 Reg. of Design

REMARKS: CRN registered under reciprocal agreement.

AS BUILT

DRAWINGS

21400

Vertical Separator



The information contained in this drawing is the confidential property of Platinum Energy Services Corp. No part thereof shall be reproduced or communicated to a third party without written authorization from Platinum Energy Services Corp.