

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS P.O. NO: 4500146159
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) ITEM NO: AR-250
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by: Gea Rainey Corporation, 5202 West Channel Road, Catoosa, OK 74015
(Name and address of Manufacturer)

2. Manufactured for: NEXEN INC. ACCOUNTS PAYABLE DEBT. CANADIAN OIL & GAS DIVISION BOX 2727, STATION M CALGARY AB T2P 5C1 CANADA
(Name and address of Purchaser)

3. Location of installation: NEXEN INC. CANADIAN OIL & GAS DIVISION CDNO&G-NORTH EAST BC CANADA
(Name and address)

4. Type: RECTANGULAR VESSEL R-8161-1-A K8664.13 V8800.2 8161010 HDR 8248 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 specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to the ASME rules, Section VIII, Division 1 2010
to 0 N/A N/A
(addenda(date)) (Code Case numbers) (Special Service per UG-120(d))

6. Shell: SA516-70N+S5 FT: 1 1/2" 1/4" FT: 6 7/8" FT: 2' 2" x 11' 1 1/8"
(Material spec. number, grade) (Nominal thickness) (Corr. Allow.) (Inner diameter) (length overall)

7. Seams: CORNER JOINT N/A 100% 1175±25°F * N/A N/A 100% N/A
(Long. welded, dbl., singl., lap, butt) [R.T. (spot or full)] [Eff., %] H.T. temp. (Time, hr) [Girth. (welded, dbl., singl., lap, butt)] R.T. (spot or full) [Eff., %] (No. of courses)

8. Heads: (a) SA516-70N+S5 (b) SA516-70N+S5
(Spec. no. grade) (Spec. no. grade)

	Location (Top, Bottom, Ends)	Thickness		Crown	Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)	
		Min.	Corr.								
(a)	TOP & BOTTOM	1 1/4" / 7/8"	1/4"	SPAN	7 1/4" / 5 1/4"	N/A	N/A	N/A	**	N/A	N/A
(b)	END PLATES	1"	1/4"	SPAN	7 1/4" / 5 1/4"	N/A	N/A	N/A	***	N/A	N/A

If removable, bolts used (describe other fastening)

9. MAWP 677 PSI 15 PSI at max temp. 212°F 300°F
(Internal) (External)

Min. design metal temp. -49°F at 677 PS Hydro., pneu. or comb. test pressure 881 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/OUTLET	2/2	8" 300#	PIPE/ RFLWN	SA333 GR6 SEAMLESS	SA350-LF2 CLASS 1	S/160	1/4"	INTEGRAL	UW16.1(a)	N/A	FT HEADER
VENT/DRAIN	1/1	2"	RFLWN	SA350-LF2 CLASS 1	N/A	300#	1/4"	INTEGRAL	UW16.1(a)	N/A	RT HEADER

11. Supports: Skirt N/A Lugs N/A Legs N/A Others CLAMPED Attached BOLTED TO FRAME
(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)
TUBES: (428) SA213-316L (UNS S31603) 1" O.D. x 0.065" MW x 34' STRAIGHT & FINNED / BUNDLE: (8) ROWS (2) PASS / UT & RT PER CUSTOMER SPECS
CHARPY IMPACT TESTING EXEMPT: NOZZLE PIPE & FLANGE: UCS 66(g) / CHARPY IMPACT ON PLATE: 15/10 FT-LBS @ -49°F [-45°C] * FT: 1HR 15MIN RT: 1 HR
CONSTRUCTED IN ACCORDANCE WITH APPENDIX 28 ** FT: 7 1/4" x 11' 1 1/8" RT: 5 1/4" x 11' 1 1/8" *** FT: 7" x 1' 11 1/2" RT: 5" x 1' 6 3/4"

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 12007
expires 3 JUNE 2014

Date 8/24/12 Co. Name Gea Rainey Corporation Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Gea Rainey Corp., 5202 West Channel Rd at Port of Catoosa, OK 74015
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 Oklahoma and employed by TUV Rheinland AIA Services, LLC.
have inspected the component described in this Manufacturer's Data Report on 8/24/12, 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 8/24/12 Signed [Signature] Commissions NB 12997 ACK 939
(Authorized Inspector) [National Board (incl endorsements) State, Province and number]

CUSTOMER PO#: 4500146159
CUSTOMER ITEM: AR-250 & 260
GEA JOB#: R-8161-1-A & B

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS P.O. NO: 4500146159
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) ITEM NO: AR-260
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by: Gea Rainey Corporation, 5202 West Channel Road, Catoosa, OK 74015
 (Name and address of Manufacturer)

2. Manufactured for: NEXEN INC. ACCOUNTS PAYABLE DEBT. CANADIAN OIL & GAS DIVISION BOX 2727, STATION M CALGARY AB T2P 5C1 CANADA
 (Name and address of Purchaser)

3. Location of installation: NEXEN INC. CANADIAN OIL & GAS DIVISION CDNO&G-NORTH EAST BC CANADA
 (Name and address)

4. Type: RECTANGULAR VESSEL R-8161-1-B K8664.1 K8664.13 8161010 HDR 8249 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 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 0 N/A N/A
 {addenda(date)} (Code Case numbers) {Special Service per UG-120(d)}

6. Shell: SA516-70N+S5 FT: 1 1/2" 1/4" FT: 6 7/8" FT: 2' 2" x 11' 1 1/8"
 (Material spec. number, grade) (Nominal thickness) (Corr. Allow.) (inner diameter) (length overall)

7. Seams: CORNER JOINT N/A 100% 1175±25°F * N/A N/A 100% N/A
 [Long. (welded, dbl., singl., lap, butt)] [R.T. (spot or full)] [Eff., %] H.T. temp. (Time, hr) [Girth. (welded, dbl., singl., lap, butt)] R.T. (spot or full) [Eff., %] (No. of courses)

8. Heads: (a) SA516-70N+S5 (b) SA516-70N+S5
 (Spec. no. grade) (Spec. no. grade)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)	
		Min.	Corr.	Crown	Knuckle						
(a)	TOP & BOTTOM	1 1/4" / 7/8"	1/4"	SPAN	7 1/4"/5 1/4"	N/A	N/A	N/A	**	N/A	N/A
(b)	END PLATES	1"	1/4"	SPAN	7 1/4"/5 1/4"	N/A	N/A	N/A	***	N/A	N/A

If removable, bolts used (describe other fastening) _____
 (Material spec. number grade, size, number)

9. MAWP 677 PSI 15 PSI at max temp. 212°F 300°F
 (Internal) (External) (Internal) (External)

Min. design metal temp. -49°F at 677 PS Hydro. , pneu. or comb. test pressure 881 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/OUTLET	2/2	8" 300#	PIPE/ RFWN	SA333 GR6 SEAMLESS	SA350-LF2 CLASS 1	S/160	1/4"	INTEGRAL	UW16.1(a)	N/A	FT HEADER
VENT/DRAIN	1/1	2"	RFLWN	SA350-LF2 CLASS	N/A	300#	1/4"	INTEGRAL	UW16.1(a)	N/A	RT HEADER

11. Supports: Skirt N/A Lugs N/A Legs N/A Others CLAMPED Attached BOLTED TO FRAME
 (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)
 TUBES: (428) SA213-316L (UNS S31603) 1" O.D. x 0.065" MW x 34' STRAIGHT & FINNED / BUNDLE: (8) ROWS (2) PASS / UT & RT PER CUSTOMER SPECS
 CHARPY IMPACT TESTING EXEMPT. NOZZLE PIPE & FLANGE: UCS-56(g) / CHARPY IMPACT ON PLATE: 15/10 FT-LBS @ -49°F [-45°C] * FT: 1HR 15MIN RT: 1 HR
 CONSTRUCTED IN ACCORDANCE WITH APPENDIX 28 ** FT: 7 1/4" x 11' 1 1/8" RT: 5 1/4" x 11' 1 1/8" *** FT: 7" x 1' 11 1/2" RT: 5" x 1' 6 3/4"

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 12007
 expires 3 JUNE 2014

Date 8/24/12 Co. Name Gea Rainey Corporation Signed _____
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Gea Rainey Corp., 5202 West Channel Rd at Port of Catoosa, OK 74015
 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 Oklahoma and employed by TUV Rheinland AIA Services, LLC.

have inspected the component described in this Manufacturer's Data Report on 8/29/12, 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 8/29/12 Signed [Signature] Commissions NPL2997 OK 939
 (Authorized Inspector) [National Board (incl endorsements) State, Province and number]