

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

A 621939

1. Manufactured and certified by DACRO INDUSTRIES INC. 9325-51 AVENUE EDMONTON, ALBERTA T6E 4W8
(Name and address of manufacturer)

2. Manufactured for MEG ENERGY CORP., C/O WORLEY PARSONS CANADA, 1000 15 SUNPARK PLAZA SE, CALGARY, AB, T2X 0M5
(Name and address of Purchaser)

3. Location of installation MEG ENERGY CORPORATION, CHRISTINA LAKE, AB
(Name and address)

4. Type HORIZONTAL 12-864 V8849.2 12-864-DN-1 & -V-1/-2 Rev 1/3/2 --- 2013
(Horizontal or vertical, tank) (Mfg'r's serial number) (CRN) (Drawing number) (Nat'l Board No.) (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 --- --- ---
[Addenda if applicable (date)] (Code Case numbers) [Special service per UG-120(d)]

6. Shell: SA-516-70N 12.7 mm 3.2 mm 2133 mm 6096 mm SEAM/SEAM
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) [Length (overall)]

7. Seams: TYPE 1 FULL 100% 621°C 60 min TYPE 1 FULL 100% 2
[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) Material SA-516-70N (b) Material SA-516-70N
(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)	REF END	10.1 mm	3.2 mm	--	--	2:1	--	--	--	CONCAVE
(b)	FAR END	10.1 mm	3.2 mm	--	--	2:1	--	--	--	CONCAVE

If removable, bolts used (describe other fastenings) ---
(Material spec. number, grade, size, number)

9. MAWP 866 kPag 103 kPag at max.temp. 150°C 150°C
(Internal) (External) (Internal) (External)

Min, design metal temp. -29°C at 866 kPag Hydro., pneu., or comb. test pressure HYDRO 1127 kPag

Proof test ---

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain etc)	No	Diameter Or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attach. Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
SEE ATTACHED U-4 FORM(S)											

11. Supports: Skirt NO Lugs --- Legs --- Other SADDLES Attached SHELL/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: ---
(Name of part, item number, Manufacturer's name and identifying stamp)

SAFETY RELIEF DEVICES PER UG-125 ARE THE RESPONSIBILITY OF THE USER. RT FULL PER UW-11(a)

TAG #: 8-V-851 WEIGHT: 7,800 KG VOLUME: 24.3 m³ IMPACT TESTED: NO, EXEMPT PER UG-20(f)

CONSTRUCTION DWGS:12-864-DN-1 & -V-1/-2 Rev 1/4/2

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 14379 expires February 16, 2016.
 Date Feb. 28, 2013 Co. name DACRO INDUSTRIES INC. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by DACRO INDUSTRIES INC. at EDMONTON
 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 Feb 28 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 Feb 28, 2013 Signed [Signature] Commissions AB 268 NB 13043 A, B
(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	DACRO INDUSTRIES INC. 9325-51 AVENUE EDMONTON, ALBERTA T6E 4W8		
		<small>(Name and address of Manufacturer)</small>		
2.	Manufactured for	MEG ENERGY CORP., C/O WORLEY PARSONS CANADA, 1000 15 SUNPARK PLAZA SE, CALGARY, AB, T2X 0M5		
		<small>(Name and address of Purchaser)</small>		
3.	Location of installation	MEG ENERGY CORPORATION, CHRISTINA LAKE, AB		
		<small>(Name and address)</small>		
4.	Type	HORIZONTAL	SOUR GAS INLET SEPARATOR	12-864
		<small>(Horizontal, vertical, or sphere)</small>	<small>(Tank, separator, heat exch., etc.)</small>	<small>(Manufacturer's serial number)</small>
		V8849.2	12-864-DN-1 & -V-1/-2 Rev 1/3/2	---
		<small>(CRN)</small>	<small>(Drawing number)</small>	<small>(National Board number)</small>
				2013
				<small>(Year built)</small>

Data Report Item Number

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diameter Or Size (NPS)	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
INLET (N1)	1	16	CL150 RFWN	SA-106B	SA-105N	40.4 mm	3.2 mm	SA-516-70N	UW-16.1(d)	TYPE 1	---
VAPOR OUTLET (N2)	1	12	CL150 RFWN	SA-106B	SA-105N	12.7 mm	3.2 mm	SA-516-70N	UW-16.1(d)	TYPE 1	---
LIQUID OUTLET (N3)	1	4	CL150 RFLWN	SA-105N	---	19.0 mm	3.2 mm	---	UW-16.1(d)	---	---
UTILITY (N4)	1	2	CL150 RFWN	SA-106B	SA-105N	8.71 mm	3.2 mm	---	UW-16.1(d)	TYPE 1	---
LEVEL TRANSMITTER (N5A)	1	3	CL150 RFWN	SA-106B	SA-105N	11.0 mm	3.2 mm	---	UW-16.1(d)	TYPE 1	---
LEVEL TRANSMITTER (N5B)	1	3	CL150 RFWN	SA-106B	SA-105N	11.0 mm	3.2 mm	SA-516-70N	UW-16.1(d)	TYPE 1	---
LEVEL TRANSMITTER (N6A)	1	3	CL150 RFWN	SA-106B	SA-105N	11.0 mm	3.2 mm	---	UW-16.1(d)	TYPE 1	---
LEVEL TRANSMITTER (N6B)	1	3	CL150 RFWN	SA-106B	SA-105N	11.0 mm	3.2 mm	SA-516-70N	UW-16.1(d)	TYPE 1	---
RELIEF (N7)	1	10	CL150 RFWN	SA-106B	SA-105N	12.7 mm	3.2 mm	SA-516-70N	UW-16.1(d)	TYPE 1	---
MAINTENANCE VENT (N8)	1	10	CL150 RFWN	SA-106B	SA-105N	12.7 mm	3.2 mm	SA-516-70N	UW-16.1(d)	TYPE 1	---
HIGH PRESSURE DRAIN INLET (N9)	1	3	CL600 RFWN	SA-106B	SA-105N	11.0 mm	3.2 mm	---	UW-16.1(d)	TYPE 1	---
STEAM OUT (N10A/B)	2	2	CL150 RFLWN	SA-105N	---	13.4 mm	3.2 mm	---	UW-16.1(d)	---	---
SPARE (N11)	1	3	CL150 RFWN	SA-106B	SA-105N	11.0 mm	3.2 mm	---	UW-16.1(d)	TYPE 1	---
VENT (N12)	1	3	CL150 RFWN	SA-106B	SA-105N	11.0 mm	3.2 mm	---	UW-16.1(d)	TYPE 1	---
TEMPERATURE GAUGE (N13)	1	2	CL150 RFWN	SA-106B	SA-105N	8.71 mm	3.2 mm	SA-516-70N	UW-16.1(d)	TYPE 1	---

Certificate of Authorization:	Type	"U"	No.	14379	Expires	February 16, 2016.
Date	Feb. 28, 2013	Name	DACRO INDUSTRIES INC.		Signed	
			<small>(Manufacturer)</small>			<small>(Representative)</small>
Date	Feb 28, 2013	Name			Commissions	AB 268 NB 13043 A, B
			<small>(Authorized Inspector)</small>			<small>[National Board (incl. endorsements), State, Province and number]</small>

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3.	Location of installation	MEG ENERGY CORPORATION, CHRISTINA LAKE, AB	<small>(Name and address)</small>
4.	Type	HORIZONTAL	SOUR GAS INLET SEPARATOR
		<small>(Horizontal, vertical, or sphere)</small>	<small>(Tank, separator, heat exch., etc.)</small>
			12-864
			<small>(Manufacturer's serial number)</small>
		V8849.2	12-864-DN-1 & -V-1/-2 Rev 1/3/2
		<small>(CRN)</small>	<small>(Drawing number)</small>

			2013
			<small>(National Board number)</small>
			<small>(Year built)</small>

Data Report Item Number

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diameter Or Size (NPS)	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
DRAIN (N14)	1	3	CL150 RFLWN	SA-105N	---	15.7 mm	3.2 mm	---	UW-16.1(d)	---	---
PRESSURE GAUGE (N15)	1	2	CL150 RFWN	SA-106B	SA-105N	8.71 mm	3.2 mm	---	UW-16.1(d)	TYPE 1	---
LEVEL GAUGE (N16A)	1	2	CL150 RFWN	SA-106B	SA-105N	8.71 mm	3.2 mm	---	UW-16.1(d)	TYPE 1	---
LEVEL GAUGE (N16B)	1	2	CL150 RFWN	SA-106B	SA-105N	8.71 mm	3.2 mm	SA-516-70N	UW-16.1(d)	TYPE 1	---
MANWAY (M1)	1	24	CL150 RFWN	SA-516-70N	SA-105N	12.7 mm	3.2 mm	SA-516-70N	UW-16.1(d)	TYPE 1	SHELL

REMARKS:

1 STIFFENING RING (9.5 mm x 102 mm) USED AT ELEVATION 3600 mm FROM REFERENCE SEAM LINE

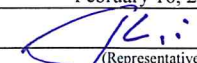
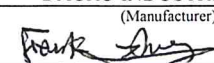
M1 NOZZLE COMES WITH NPS 24, CL150 RF BLIND (SA-105N) C/W Ø 1 1/4" SA-193-B7M, 8UNR-2A STUD (QTY:20) C/W SA-194-2HM HEX NUT (QTY: 2 EACH STUD)

N8 NOZZLE COMES WITH NPS 10, CL150 RF BLIND (SA-105N) C/W Ø 7/8" SA-193-B7M, UNRC-2A STUD (QTY: 12) C/W SA-194-2HM HEX NUT (QTY: 2 EACH STUD)

N11/N12 NOZZLES COME WITH NPS 3, CL150 RF BLIND (SA-105N) C/W Ø 5/8" SA-193-B7M, UNRC-2A STUD (QTY:4 EACH BLIND) C/W SA-194-2HM HEX NUT (QTY: 2 EACH STUD)

N4 NOZZLE COMES WITH NPS 2, CL150 RF BLIND (SA-105N) C/W Ø 5/8" SA-193-B7M, UNRC-2A STUD (QTY:4) C/W SA-194-2HM HEX NUT (QTY: 2 EACH STUD)

BOLTING AND NUTS ARE IMPACT TEST EXEMPT PER FIG. UCS-66 NOTE C.

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