

0538
89-C0601A

FORM A-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required, the Provisions of the ASME Code Rules, Sect. VIII, Division 2

(A) 2537256

- Manufactured and certified by MALONEY STEEL LTD. 1 8825 Shepard Rd SE Calgary, Alberta PO Box 5069
Name and address of manufacturer
- Manufactured for ANDCO Canada Petroleum Co. Ltd. 240 4th Ave. S.W. Calgary, AB T2P 2H8
Name and address of purchaser
- Location of installation Majorville 4-31-18-19-W4M
Name and address
- Type Horizontal Separator 88-C0601-A ALD-88-035 C-0601-A N/A 1988
W.P.'s serial No. CN Drawing No. M.A.P. Bd. No. Year Built

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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 Code, Section VIII, Division 2 1986
Year

A87
Address

- Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers
- Shell: SA-516-70N 2" (50.80mm) 0.0625" (1.59mm) 5'-0" (1524mm) 20'-0" (6096mm)
Mat. Spec. No. Grade Mem. thk. (in.) Cor. allow. (in.) Diam. I.D. (ft & in.) Length (ft & in.)
 - Seams: WELDED DOUBLE BUTT 1125-1150°F FOR 2HR. 40MIN. FULL
Long R.T. No. of Courses
 - Heads: (a) Matl. SA-516-70N (b) Matl. SA-516-70N
Sp. No. Grade Spec. No. Grade

Location (Top, Bottom, End)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Circular Corner Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Concave or Convex)
(a) END	1.740"	0.0625"			2:1				CONCAVE
(b) END	44.20	1.59mm			2:1				CONCAVE

9. If removable, bolts used (describe other fastenings):
Matl. Spec. No. Grade, Size, No.

10. Jacket Closure: _____ If bar, give dimensions _____ If bolted, describe or sketch.

11. Design press. 7584 KPa 1100 psi at max. temp. 65°C 150°F F. Charpy impact _____ ft-lb at temp. of _____ ° F. Pneu., hydro., or comb. test press. 9480KPa 1375 psi.

12. Tubesheets: _____
Designation—matl. Spec. No. Grade _____ Diam. (in.) (Subject to pressure) _____ Cor. allow. (in.) _____ Attach. (Weld, bolted)
_____ Flange—matl. Spec. No. Grade _____ Diam. (in.) _____ Cor. allow. (in.) _____ Attach. (Weld, bolted)

13. Tubes: _____
Matl. Spec. No. Grade _____ OD (in.) _____ Number _____ Type (Straight or U-T)

Items 14 to 18 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers

14. Shell: _____
Matl. Spec. No. Grade _____ Mem. thk. (in.) _____ Cor. allow. (in.) _____ Diam. I.D. (ft & in.)
_____ Longitud. Dim. (ft & in.) _____ R.T.

15. Seams: _____
Matl. Spec. No. Grade _____ HT _____ R.T.

16. Heads: (a) Matl. _____ (b) Matl. _____
Spec. No. Grade Spec. No. Grade

Location (Top, Bottom, End)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Circular Corner Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Concave or Convex)
(a)									
(b)									

17. If removable, bolts used (describe other fastenings): _____
Matl. Spec. No. Grade, Size, No.

18. Design press. _____ psi at max. temp. _____ ° F. Charpy impact _____ ft-lb at temp. of _____ ° F. Pneu., hydro., or comb. test press. _____ psi.

(12/82) This form (E00112) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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Items below to be completed for all vessels where applicable

19. Nozzles, inspection and safety valve openings:

Part No. (Include Order, Draw. etc.)	No.	Open. or Size	Type	Matl.	Wall Thk.	Reinforcement Matl.	How Attached	Location
GAS DOME	1	30"	FORGING	SA-350-LF2	1"	WELD	WELDED	SHELL
		762 mm	PLATE	SA-516-70N	25.4mm			
H ₂ O OUTLET	1	18"	FORGING	SA-350-LF2	3/4"	WELD	WELDED	SHELL
		457.2mm	PLATE	SA-516-70N	19.1mm			
MANWAY	1	24"	REFLWN	SA-350-LF2		WELD	WELDED	HEAD
		609.6mm						

20. Supports: Skirt NO Lugs NO Legs NO Other 2 SADDLES Attached WELDED TO SHELL
Where and how

21. Service: Fatigue analysis required NO and SWEET GAS /NON-LETHAL
Other comments or service

22. Remarks: Manufacturer's Partial Data Reports properly identified and signed by commissioned inspectors have been furnished for the following items of the report:

N.D.M.T. 0°F/-18°C DOME HEAD MIN. THICKNESS: .990" (25.15mm)
BOOT HEAD MIN. THICKNESS: .740" (18.8mm)

CERTIFICATION OF DESIGN

Jeer's Design Specification on file at MALONEY STEEL LTD.
 Manufacturer's Design Report on file at MALONEY STEEL LTD.
 User's Design Specification certified by JOHN W. GERRITSIN PE State ALBERTA Reg. No. 11365
 Manufacturer's Design Report certified by JIM KOLTER PE State ALBERTA Reg. No. 20163

We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 2.

"U2" Certificate of Authorization No. 15743 expires MAY 5 19 89
 Date Feb. 6/1989 Co. name MALONEY STEEL LTD. Signed Stephen Kalyes
Manufacturer Representative

CERTIFICATE OF SHOP INSPECTION CALGARY, ALBERTA

Vessel made by MALONEY STEEL LTD. at _____ in _____
 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 BOILERS BRANCH

of ALBERTA Report on Feb 6, 19 89, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 2. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his 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 6 Signed J Authorized Inspector ALBERTA Commissions ALBERTA
Not Board (incl. endorsements), State, Prov. and No.

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of SECTION VIII, Division 2 of the ASME BOILER AND PRESSURE VESSEL CODE.

"U2" Certificate of Authorization No. _____ expires _____, 19 _____
 Date _____ Co. name _____ Signed _____
Number that certified and constructed field assembly By representative

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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 _____ and employed by _____ of _____, have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section VIII, Division 2. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his 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 _____ Signed _____
Authorized Inspector Not Board (incl. endorsements), State, Prov. and No.

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FORM A-3 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provision: of the ASME Code Rules, Section VIII, Division 2

- 1. Manufactured and certified by MALONEY STEEL LTD. 1 8825 SHEPARD RD. S.E. CALGARY, AB T2H 1X1
- 2. Manufactured for AMOCO CANADA PETROLEUM CO. LTD. 240 - 4TH. AVE. S.W. CALGARY, AB T2P 0Y2
- 3. Location of installation MAJORVILLE 4-31-18-19-W4N
- 4. Type HORIZONTAL SEPARATOR 88-C0601-A ALD-88-035 C0601-A REV. 4 N/A 1988

Date Report
Item Number

Remarks

PURPOSE	NO.	SIZE	TYPE	MAT'L	THK.	REINFORCEMENT	ATTACHED	LOCATION
INLET	1	6"	REFLWN	SA-350-LF2	600#	WELD	WELDED	GAS DOME
		168.3mm			600#	WELD	WELDED	GAS DOME
GAS OUTLET	1	6"	REFLWN	SA-350-LF2	600#	WELD	WELDED	GAS DOME
		168.3mm			600#	WELD	WELDED	GAS DOME
INSPECTION	1	6"	REFLWN	SA-350-LF2	600#	WELD	WELDED	SHELL
		168.3mm			600#	WELD	WELDED	SHELL
H ² O OUTLET		2"	REFWN	SA-350-LF2	.436"	WELD	WELDED	H2O FOOT
		60.3mm	PIPE	SA-333-6	11.97mm			
COND. OUTLET	1	2"	REFLWN	SA-350-LF2	600#	WELD	WELDED	SHELL
		60.3mm			600#	WELD	WELDED	SHELL
DRAIN	1	2"	REFWN	SA-350-LF2	.436"	WELD	WELDED	BOOT HEAD
		60.3mm	PIPE	SA-333-6	11.07mm			
BRIDLE G/O	2	2"	REFLWN	SA-350-LF2	600#	WELD	WELDED	SHELL
		60.3mm			600#	WELD	WELDED	SHELL
BRIDLE O/W	2	2"	REFLWN	SA-350-LF2	.436"	WELD	WELDED	SHELL/BOOT
		60.3mm	PIPE	SA-333-6	11.07mm			
TI	1	1"	CPIG	SA-350-LF2	6000#	WELD	WELDED	SHELL
		33.4mm						
PI	1	1"	CPIG	SA-350-LF2	6000#	WELD	WELDED	SHELL
		33.4mm						

Date Feb. 6/1989

CO name MAIGNEY STEEL LTD. 1

Signed Stephen Siskinger

Date Feb 6, 89 Signed

Commission ALBERTA

ALBERTA