

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels only)

114 File E96-833

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

**CORRECTED**

1. Manufactured and certified by National Tank Company Highway 287 East, Electra, Texas 76360  
(Name and address of manufacturer)

2. Manufactured for Coastal Oil & Gas Corp. Nine Greenway Plaza Houston, TX. 77046  
(Name and address of purchaser)

3. Location of installation Unknown  
(Name and address)

4. Type: Horizontal EL-2D45003-01 --- D-96583 R 0 11983 1996  
(Horiz. or vert. tank) (Mfgr's serial no.) (CRN) (Drawing no.) (Nat'l. Bd.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: 1995  
to 1995 Year

6. Shell: SA 516-70N 2.375" .125" 54" OD 5'-0" S/S  
Matl. (Spec. No., Grade) Nom. Thk (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Dbl Butt Full 100% 1150° 2 Hr., 15 min. Dbl Butt Full 1  
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA516-70 (b) Matl. SA234WPB  
(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)	Ends	2.1935"	.125"	---	---	2:1	---	---	---	Concave
(b)	Sump	1.312"	.125"	---	---	2:1	---	---	---	Concave

If removable, bolts used (describe other fastenings) \_\_\_\_\_

9. MAWP: 1440 psi at max. temp. 130 °F  
Min design metal temp. 30 °F at 1440 psi. Hydro., pneu. or comb. test pressure Hydro-test 2160 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
In-Out	2	14"	CL600LWN	SA105	2.28"	weld	c*	Hd-Shell
LC	1	4"	CL600LWN	SA105	1.0"	weld	c*	Sump
PSV	1	3"	CL600LWN	SA105	.81"	weld	c*	Shell
Sump	1	12"	Beveled Pipe	SA106-B	1.312"	weld	c*	Shell

11. Supports: Skirt Yes Lugs -- Legs -- Other Saddle/ Skirt Attached Welded to shell and sump  
(Yes or no) (No.) (No.) (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 this report:  
Modco Closure #HE-95, Conroe, TX, Certificate #17,142, Cylinder # MK3708, Valmont, Tulsa, OK. Certificate #21,072  
(Name of part, item number, Mfgr's. name and identifying stamp)

54" OD X 5'-0" S/S X 1440# Filter Separator

\*UW-16.1, See Form U-4 manufacturer's data report supplementary sheet

UCS-66(b) Exemption for heads, Modco Closure and vessel cylinder impact test to -20° per UG-84

**CERTIFICATE OF SHOP 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 Code for Pressure Vessels, Section VIII, Division 1, "U" Certificate of Authorization No. 10,761 expires 12/31 1997  
Date 10-3-96 Co. name National Tank Company Signed [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by National Tank Company at Highway 287 East, Electra, Texas 76360  
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texas and employed by Commercial Union Insurance Co. of Boston, MA. have inspected the component described in this Manufacturer's Data Report on 10-3, 1996 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 1. 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 10-3, 1996 Signed [Signature] Commissions NB # 9015-B TX, #1056  
(Authorized Inspector) (Nat'l Board (incl. endorsements) State, Prov. and No.)



2045003

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)

314

A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 PO# E 62499

- 1. Manufactured and certified by MODCO INDUSTRIES, INC., RT 21 BOX 1370, BEACH AIRPORT RD., CONROE, TX, 77302
- 2. Manufactured for C E NATCO, HWY 287 EAST, ELECTRA, TX. 76360
- 3. Location of installation UNKNOWN
- 4. Type: MODCO FIGURE 500 CLOSURE (1) 26" HE-95 NA  
(Name and address of Manufacturer)  
(Mfg's. serial No.)  
(CRN)  
(Mat'l. Bd. No.) 010 & 020-265 MODCO INDUSTRIES, INC. 1996  
(Drawing prepared by)  
(Year built)
- 5. ASME Code, Section VIII, Div. 1 1995 NA NA  
(Subs)  
Edition and Addenda (date) Code Case No. Special Service per UG-120(d)
- 6. Shell (a) No. of course(s): 0 (b) Overall length (ft & in.): NA

Courses			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length, ft & in.	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1.	23.25	12"	SA-350LF2	1.375	NA	S	NONE	NA	NA	NONE	NA	NA	NA
<u>(Caps)</u>													

- 7. Heads: (a) SA-516 70N (b) -----  
(Mat'l Spec. No., 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	EH.
(a) <u>END</u>	<u>1.52</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>2:1</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>	<u>CONCAVE</u>	<u>NA</u>	<u>NONE</u>	<u>NA</u>
(b)													

If removable, bolts used (describe other fastening) NA

- 8. MAWP 1480 NA psi at max. temp. 100 NA °F. Min. design metal temp. -20 °F at 1480 psi.  
(Internal) (External) (Internal) (External) (Mat'l Spec. No., Grade, Size, No.)
- 9. Impact test YES 6 & 7

- 10. Hydro., pneu., or comb. test press. IN FIELD -----  
(Indicate yes or no and the component(s) impact tested) Proof test
- 11. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
<u>PAV</u>	<u>1</u>	<u>1/2" NPT</u>	<u>THREADED</u>	<u>*</u>	<u>NA</u>	<u>-----</u>	<u>-----</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>SIDE</u>

- 12. Supports: Skirt NA Lugs NA Legs NA Others NA Attached NA  
(Yes or no) (No.) (No.) (Describe)

13. Remarks: NO REINFORCING REQUIRED PER PARAGRAPH UG36 (c)(3A) NO CONNECTIONS OVER 2" PIPE SIZE  
NON CORROSIVE AND NON LETHAL SERVICES  
NO RADIOGRAPHY REQUIRED PER PARAGRAPH UW-11 & 12  
\*PAV IS A-36 MATERIAL DESIGN FUNCTIONS BY MODCO INDUSTRIES

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.  
 U Certificate of Authorization No. 17,142 Expires DECEMBER 03, 19 96  
 Date 7-6-96 Name MODCO INDUSTRIES, INC. Signed Kerry Brown  
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD 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 TEXAS and employed by COMMERCIAL UNION INSURANCE COMPANY of BOSTON, MA. have inspected the pressure vessel part described in this Manufacturer's Data Report on 09-06, 19 96, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel part 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 09-06-96 Signed [Signature] Commissions Tex #985  
(Authorized Inspector) (Nat'l. Board incl. endorsement, State, Province and No.)

TO Q.C. 9-10-96

**FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)**  
**A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer**  
**As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1**

4/4

1. Manufactured and certified by Valmont/Tulsa, 801 North Xanthus, Tulsa, OK 74110  
(Name and address of Manufacturer)

2. Manufactured for NATCO, BUSINESS HWY. 287, ELECTRA, TX 76360  
(Name and address of Purchaser)

3. Location of installation UNKNOWN  
(Name and address)

4. Type: SHELL MK 3708 NA  
(Description of vessel part (shell, two-piece head, tube bundle)) (Mfg's. serial No.) (ICRN)

NA BS11265 Valmont/Tulsa 1996  
(Nat'l. Bd. No.) (Drawing No.) (Drawing prepared by) (Year built)

5. ASME Code, Section VIII, Div. 1 1995 NA NA  
Edition and Addenda (date) Code Case No. Special Service per UG-120(d)

6. Shell (a) No. of course(s): ONE (b) Overall length (ft & in.): 5'-0"

Courses			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length, ft & in.	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	54 OD	5'-0"	SA-516-70N	****	NA	1	FULL	NA		NONE	NA	NA	NA

7. Heads: (a) NONE (b) NONE  
(Mat'l Spec. No., Grade or Type) H.T.—Time & Temp. (Mat'l Spec. No., 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)	NA	NA	NA	NA	NA			NA	NA			NONE	NA
(b)													

If removable, bolts used (describe other fastening) NA  
(Mat'l Spec. No., Grade, Size, No.)

8. MAWP NA NA psi at max. temp. NA NA °F. Min. design metal temp. NA °F at NA psi.  
(internal) (external) (internal) (external)

9. Impact test (YES) SHELL@-20F.  
(Indicate yes or no and the component(s) impact tested)

10. Hydro., pneu., or comb. test press. NA Proof test NA

11. Nozzles, inspection, and safety valve openings: None

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	

12. Supports: Skirt NO Lugs NA Legs NA Others NA Attached NA  
(Yes or no) (No.) (Describe) (Where and how)

13. Remarks: Weld procedures qualified in both "AS-WELDED" and "PWHT" condition  
Valmont not responsible for design consideration  
MATERIAL THK'NESS: 2.375"\*\*\*\*  
JOB # 4I773-96 PO# E62433

**CERTIFICATE OF SHOP/FIELD COMPLIANCE**

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization No. 21,072 Expires February 28, 19 98

Date 9-13-96 Name Valmont/Tulsa Signed [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD 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 OK and employed by Commercial Union Insurance Co. of Boston; MA have inspected the pressure vessel part described in this Manufacturer's Data Report on 9-13-96, 19 96, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel part 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 9-13-96 Signed [Signature] Commissions OKLA. # 251  
(Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)