

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

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238360-NB

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Manufactured and certified by **COSMOS MINERALS CORPORATION** 835 FLYNN ROAD CAMARILLO, CA 93012
(Name and address of manufacturer)
Manufactured for **NORAM ENGINEERS AND CONSTRUCTORS** 1477 WEST PENDER ST. VANCOUVER, BC CANADA
(Name and address of purchaser)
Location of installation **FIRST CHEMICAL CORPORATION** 1001 INDUSTRIAL RD. PASCAGOULA, MS 39567
(Name and address)
Type **HORIZ. HT. EXCHGR.** 18064 --- 18064-D-01 476 1995
(Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing no) (Nat'l Bd No) (Year built)
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 1992
Year

to **A93** ---
Addenda (Date) Code Case Nos Special Service per UG 120(d)
Shell **SA-312-TP316L** .365" .062" 0 ft. 10.02 in. 7 ft. 8-1/2 in.
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. ID (ft. & in.) Length (overall) (ft. & in.)
Seams **WLD., S-BUTT** NONE 100% --- --- **WLD., S-BUTT** NONE 5*
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
Heads (a) Matl. **SA-240-316L** (b) Matl. ---

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)
ENDS		1.034"	Ø	---	---	---	---	---	10.75"	FLAT

If removable, bolts used (describe other fastenings) **S. STL., SA-193-B8, 1"-8x6-1/2" lg., 16 REQ'D, EA. END**
(Matl., Spec. No., Gr., Size, No)
MAWP **FV / 290** psi at max temp. 400 °F
Min. design metal temp. -20 °F at 290 psi Hydro. test pressure 465 psi

Nozzles, inspection and safety valve openings:

Purpose	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Inlet, Outlet, Drain								
N/OUTLETS	4	3"	CL300RFSO	SA-312-TP316L	.216"	---	WELDED	SHELL & BONNET

Supports Skirt NO Lugs Ø Legs Ø Other (4) SUPPORTS Attached SHELL / WELDED
(Yes or no) (No.) (No.) (Describe) (Where and how)

Remarks Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report.
EXPANSION JOINT, SER. NO. 13-596-1, BADGER INDUSTRIES, "U" STAMP NO. 14,146

(Name of part, item number, Mfr's name and identifying stamp)
UNIT FABRICATED IN (3) REMOVALBLE SECTIONS. SHELL LENGTH INCLUDES A 14" LG. BELLOWS EXPANSION JOINT. IMPACT TESTING NOT REQUIRED PER UHA-51. SAFETY VALVES TO BE INSTALLED BY OTHERS.

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 **23, 679** expires **OCT. 03, 1997**
Date **2-6-95** Co. name **COSMOS MINERALS CORPORATION** Signed *Michael R. Urban*
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by **COSMOS MINERALS CORPORATION** at **CAMARILLO, CALIFORNIA**
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of **CALIFORNIA** and employed by **DEPT. OF INDUSTRIAL RELATIONS, D.O.S.H.** have inspected the component described in this Manufacturer's Data Report on **2-6-95**, 1995, 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 **2/6/95** Signed *Robert H. Glenn* Commissions **NB 8525 B CA 1397**
(Authorized Inspector) (Nat'l Board. (incl. endorsements) State, Prov. and No.)

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OR **NB** 476

[illegible]

10. Hydro., ~~hydrostatic~~ test press. 468 Proof test None

11. Nozzles, inspection, and safety valve openings:

12. Supports: Skirt _____ (Material) Lugs _____ (No.) Legs _____ (No.) Others _____ (Describe) Attached _____ (Where and how)

SR-61257/in. Axial Comp. - 375 Axial Extn. - 250 Design Life - 766 Cycles

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. 14,146 Expires August 29, 19 95

Date 1-4-95 Name Badger Industries Signed [Signature]
(Manufacturer) (Representative)

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.

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 PA and employed by Hartford Steam Boiler Inspection & Insurance Company of Hartford, CT have inspected the pressure vessel part described in this Manufacturer's Data Report on 1-4, 19 95, 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 1-4-95 Signed Kimberly D. Wayman Commissions PA 2714
 (Authorized Inspector) (Not a Board incl. endorsement, State, Province and No.)

COSMOS

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Q.C. APPROVAL *1-16-95*