

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

86216

1. Manufactured by SUPERIOR WELDING CO., 900 E. Division St., Decatur, Ill. 62526
 2. Manufactured for MONSANTO CO., P. O. BOX 7239, ST. LOUIS, MO. 63177
 3. Location of Installation MONSANTO CO., EAST ST. LOUIS (SAUGET), ILL. 62201
 4. Type Vert Tank (Horiz. or vert. tank) 79111 (Mfr's Serial No.) 7E-9111-A (CRN) 5032 (Drawing No.) 1980 (Nat'l Bld 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 1977 and Addenda to 12-31-78 and Code Case Nos. _____
 (Year) (Date)
 Special Service per UG-120(d) _____
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: _____

6. Shell: Matl. SA-240-316 (Spec. No., Grade) Nom. .375 Thk. Corr. .125 in. Allow. 60 O.D. in. Lgth. 8 ft 0 in.
 7. Seams: Long. Wld. Dbl. Butt (Welded, Dbl. Sngl. Lap, Butt) R.T. Spot (Spot or Full) Efficiency 85 % H.T. Temp. 2150 F Time 1 1/2 hr
 Girth Wld. Dbl. Butt (Welded, Dbl. Sngl. Lap, Butt) R.T. Spot (Spot, Partial, or Full) No. of Courses 1
 8. Heads: (a) Material SA-240-316 (Spec. No., Grade) (b) Material SA-240-316 (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisp. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
(a) Top	1.4375"	.125"	---	---	---	---	---	59.25"	---
(b) Bottom	.375"	.125"	60"	3.625"	---	---	---	---	Convex or Concave

If removable, bolts used (describe other fastenings) SA-193-B8 625 1/4 (52)
 (Material, Spec. No., Gr., Size, No.)

9. Constructed for max. allowable working pressure 15 psi at max. temp. 212 F. Min. temp. (when less than -20 F) _____ F. Hydrostatic or Pneumatic Test pressure 27 psi.
 10. Safety Valve Outlets: Number 4 Size _____ Location _____
 11. Nozzles and Inspection Openings: *Safety Valve Outlets In External Piping By Others

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
See Page 2 for Nozzles								

12. Supports: Skirt No (Yes or no) Lugs 4 (No.) Legs _____ (No.) Other _____ (Describe) Attached Shell Welded (Where and how)
 13. Remarks: Vessel Also designed for 7.5 P.S.I.G. Vacuum At 250° F.

CERTIFICATE OF 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.

Date 4/16/80 Signed SUPERIOR WELDING CO. (Manufacturer) by Mushead & Walling (Representative)
 "U" Certificate of Authorization No. 1900 expires 3-30, 1982

CERTIFICATE OF SHOP INSPECTION

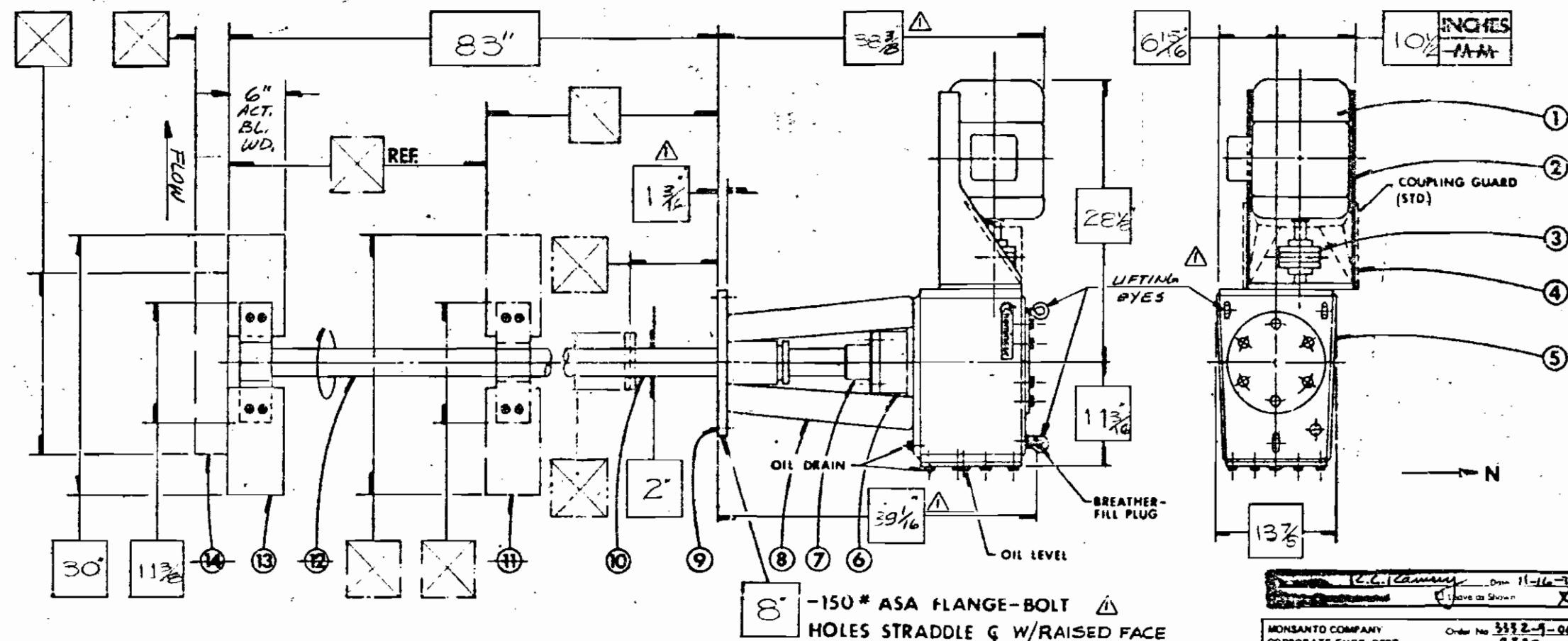
Vessel made by SUPERIOR WELDING CO. at DECATUR, ILL.

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 Ill. and employed by H.S.B.I. & I. Co. have inspected the pressure vessel described in this Manufacturers' Data Report on 4-16-80 1980, 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 the Manufacturers' 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.

Signed J. Mushead (Inspector) Date 4-16-80 Commissions Nat'l Bd. # 8152
 (Nat'l Board, State, Province and No.)

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PURPOSE	NO.	SIZE	TYPE	MAT'L	NOM. THK.	REINF. MAT'L	HOW ATTACHED	LOCATI
Agitator	1	8"	Nozz	SA-312-316	Sch-80S	SA-240-316	Welded	Head
L. I (Alarm)	1	2"	"	"	Sch.160S	----	"	"
Vent	1	2"	"	"	"	----	"	"
Drain	1	2"	"	"	"	----	"	"
M C B Feed	1	2	"	"	Sch.80S	----	"	Shell
Acid Feed	1	2	"	"	Sch.80S	----	"	"
Outlet	1	6"	"	"	"	----	"	"
Utility	1	2"	"	"	"	----	"	"
Co ₂ Purge	1	2"	"	"	SCH.160S	----	"	Head
Spare	2	4"	"	"	Sch.80S	----	"	Shell
Spare	1	4"	"	"	Sch. 160S	----	"	Head
Sight Glass	1	3"	"	"	Sch.80S	----	"	Shell



- △ ALL IN-TANK FASTENERS TO BE LOCKWIRED.
- 2) MOTOR IS 115 S.F., HIGH EFFICIENCY GOULDS E-PLUS OR MAC II.
- 3) SUPPLY ONE SET OF #100 CHANGE GEARS @ 56 R.P.M.
- 4) THIS AGITATOR COMPLIES WITH MONSANTO SPEC. #3332-1-362.000 REV. 0, DATED 7-6-79.
- 5) ALL WELDED PARTS EXPOSED TO INTERIOR OF VESSEL SHALL BE MADE OF 316L STN. STL., AND WELDED USING COMPATIBLE EPODS.

MONSANTO COMPANY
 CORPORATE ENGR. DEPT. Project (CEA) No. 3332
 Location Area 01
 Equipment No. 362-000
 Description EXTRACTOR AGITATOR

NOTE - AGITATOR NOZZLE SUPPORT STRUCTURE SHOULD BE DESIGNED TO WITHSTAND THESE LOADS.

STATIC WEIGHT 915 LBS.

TORQUE REACTION 1170 FT. LBS.

BENDING MOMENT 1148 FT. LBS.

FOR AGITATOR DETAILS SEE INSTALLATION, OPERATION AND MAINTENANCE MANUAL

△ REF. STUFFING BOX ASS'Y-BI-74493-AZ
 Baffle Recommendations: (4) AT 90°
 5 W.X. 66 LG. △ 1" OFF TANK WALL

CUSTOMER NAME MONSANTO COMPANY

CUSTOMER P.O. NO. 3332-9-0004

CUSTOMER EQ. NO. 01-362.000

CHEMINEER SERIAL NO. 1-74493-1 QTY. (1)

MODEL HTA-75 RPM 84 SERVICE RATING 1.50

MOTOR DATA: H.P. 7 1/2 RPM 1750 PHASE 3

HZ 60 VOLTS 460 ENCLOSURE IEEE

STUFFING BOX PARTS MAT'L: △

PACKING 101 KING 558 △ LANTERN RING 6.2 TEFELON GLAND BRONZE SPLIT

14	STABILIZER	1	
13	TURBINE (STRAIGHT FOLDED BLDS)	1	STL
12	EXTENSION SHAFT	1	
11	TURBINE		
10	SHAFT	1	STL
9	FLANGED STUFFING BOX	1	STL
8	PEDestal	1	STL
7	LOW SPEED COUPLING-FLANGED	1	STL
6	REDUCER COUPLING HALF	1	STL
5	GEAR REDUCER	1	STD.
4	COUPLING GUARD	1	STL
3	FLANGE COUPLING WOODS "SC"	1	STD.
2	MOTOR BRACKET	1	STL
1	MOTOR	1	STD.
NO.	PART	QTY.	MAT'L

NET WEIGHT 915 LBS. SHIP WEIGHT 1110 LBS.



FLUID AGITATION
 ENGINEERS

CHEMINEER, INC. DAYTON, OHIO

HIGH TORQUE AGITATOR
 (1) MODEL- HTA-75

FOR SUBMITTAL TO MONSANTO

DATE 10-4-79 BY ECN# 3316 C1-74493-AZ

CERTIFIED BY Shirley Simon DATE 10-4-29

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