| 1. | Manufactured | and ceflified | by RO | BEN mfg. | Co. Inc. | 760 Vass | sar Ave | ., Lake | wood, (Name | NJ, C |)8701 . Idress of Ma | X Y unufactu | B _{rer)} | 23 | 500 | P | 004 | 213 | 136 |
|--|--|-------------------------------------|--------------|---------------------|--------------------------|--|-------------------------|----------------|----------------|----------|-----------------------------|-----------------|--------------------|------------|----------------------------|----------|----------|---------------------|------------|
| 2. | Manufactured | for HOI | FMAN | I-LaROCI | IE INC. 2 | 206 ROCI | HE DR | IVE BI | | | NJ 0782 dress of Pu | |) | | | | |) | |
| 3. | n of los | tallation | HOFFN | IAN-LaR | OCHE IN | IC. 233 R | OCHE | DRIV | E BEL | VIDE | RE, NJ 0 | 7823 | | | | | | 3 | - |
| 4. Vertical JACKETEI (Tank, separator, | | | | | D TANK r, jkt. vessel | TANK 96034 Jd. vessel, heat exh., etc.) (Mig's serk | | | | | | | | | 9236 (Nat'l. Bd. No.) (| | lo.) (Y | 1996 ear bult) | |
| 5. | ASME Code, S | ection VIII, D | N.1 _1 | 995 NON | IE on and Adde | ndo (doto) | | | - | Code | Case No. | | | - | Specia | I Servic | e per U | G-120(d) | |
| | ms 6 - 11 Incl. t Shell (a) No. o | W 1 75000 | ed for sing | le wall vesse | els, jackets o | f Jacketed ve | essels, st | | at exchan | gers, o | r chamber o | f multi-c | hamb | er ves | | | | | <u> </u> |
| | Course(s) | | | Material | | | Thickness | | Long Joint | | int (Cat. A) | | 100000 | | oint (Cat. | - | C) | Heat Trea | |
| No. Diameter, in. Length (ft. & in.) | | | l. & in.) | Spec./Grade or Type | | | Nom. Corr. | | Type Full, Spo | | pot, None | Eff. | Type Full, Spot, N | | Spot, No | ne E | ff. | Гетр. | Time |
| _ | | | | | | | | | | | | | | - | | | | | |
| - | + | | | | | | | | - | | | | | - | | + | | - | |
| L | | | | | | | | I | | SAZ | 40 T304 | | | <u> </u> | | | | | |
| 7. | Heads: (a) | (A) | lat'i Spec. | No., Grade | у Туре) Н.Т | Time & Ter | mp | | (b) _ | UILL | | pec. No | ., Gra | de or | Туре) Н.1 | rTime | & Tem | p | |
| Г | Location (Top | Thic | kness | Ra | idius | Elliptical | Conical Apex Angle | | Hemisp | herical | Flat | Side to | | o Pressure | | | | alegory / | A |
| | Bottom, Ends | | Corr. | Crown | Knuckle | Ratio | | | Radius | | Dlameter | Con | vex | Co | oncave | Туре | Full, Sp | ot, None | Eff. |
| (a) | | | <u> </u> | | | | | | | | - | 7.4 | | | | | | | |
| (b) | Bottom | .105" | | 36" | 1 | | | | | | | Conv | /ex | ex Concave | | <u> </u> | | | |
| 11. Iter | The state of the s | 150 internal) NO, IMF or comb. test | press | EST EXE | | (Intern R UHA-5 (Indicate | al) 1(a) yes or n | | nal) | ent(s) k | Min, design mpact lestec | 1) | | _ | 0 | | | scribe or FV/15(| |
| | | Stationary (A | .5. | | | (subject to p | ress.) | | Nom | thk, k | n. | Corr | . Alfor | w., in. | | Attachi | ment (w | elded or I | polted) |
| 40.7 | Floating (Mat | 1 Spec. No.) | . | Dla., I | n.: | - 1 | lom. thk. | , in. | - 100 S | | Corr. Allow., | in. | | <u> </u> | 2 | Attachi | ment | | |
| lten | ubes: Mat'i ns 14 - 18 Incl. Sheli (a) No. o | | ed for Inn | | | D., In. vessels or ch | | | | | 27/27/201 | | Numb | er | | 1 | ype (St | raight or I | J) |
| | Co | urse(s) | | | Material | | Thickne | | ess | | Long Joint (C | | î. A) | | Circum, Joint (| | B & C) | Heat Tre | atment |
| No. | Diameter, in. | Length (ft. & | in.) | Spec./ | Grade or Ty | ре | No | m. | Corr. | Туре | Full, Spot, I | None | Eff. | Туре | Full, Spo | t, None | Eff. | Temp. | Time |
| 1 | 3'-0" ID | 1'-9' | - - | SA-2 | 240 T316L | , | 5/1 | 6 ^H | | 1 | None | 2 7 | 0% | 1 | No | ne | 70% | | |
| | | | | | | | | | | | | | | | | | | | |
| 15. | Heads: (a) | SA240 T | | lo., Grade or | Type) H.T | Time & Tem | Ю | | (b) | SA24 | 0 T316L (Mat18p | ec. No | Grad | e or T | vpe) H.T. | -Time 8 | & Temp | | |
| | Location (Top, | Thick | ness | | Radius | E順ptik | cal | Conical | Hemispherica | | al Flat | | Side to Press | | ressure | Cate | | ategory A | |
| - | 100 | Min. 2941 | Corr. | Crown | | | A U | pex Angk | e f | Radius | Dlame | eter C | conve | - | oncave | | | ot, None | _ |
| (a) (b) | Itom | .2841 | | 36" 36" | 3 1/2 3 1/2 | | - - | | +- | | - | + | = | | concave concave | S | 100 | one | 85% 85% |
| , | | | | | | | | 200 | | | | | ALCO 101 | | JAMES | | | VII.0 | 1 00 / 0 |
| lf re | novable, bolts i | used (describ | e other fa | stening) | | | | | | | | | | | | | | | |

| 16. MAWP | 15 | 0 | FV psi | at max. temp. | 350 | 350 | o _F | Min. desian | metal temp. | 0 °F a | at FV/ | 150 roi |
|---|---------------------------|-----------------------------|--|-------------------------|-------------|---|----------------|---|----------------------|-----------------|---------------|-------------|
| | (interi | | (external) | | (interna | | - - | | | | " F <u>V/</u> |),50 psi. |
| 17. Impact test | NO | AS PER | PARAGRAPH | UHA-51 | | | | | | | 4, | |
| 40 11040 | | | | (1 | Indicate ye | s or no and the com | conent(s) in | pact tested |) | | | |
| 18. Hydro., pneu. 19. Nozzles, insp | or co | mb. test pr , and safety | ess. 238 valve openings: | | Proof te | est | | | | | | |
| Purpose (inlet, | 1 | Diameter | Flange | T | Mate | erial | Nozzlo | Thickness | Dolnforoomest | LI LIOU A | Hooked | T. 1 |
| Outlet, Drain, etc. | | or Size | Туре | Noz | zle | Flange | Nom. | Corr. | Reinforcement | Nozzle | ttached | Lc |
| (OUTLET) PBM BAL | OUTLET) PBM BALL 1 2" PAD | | SA351-C | F3M | | 150# | | Material | - | Flange | (Ins. | |
| LIQUID INLET | 1 | 2" | FLANGE | SA312 T | | SA182 T316L | .154" | | NONE | UW16.1(d) | | |
| Vent | 1 | 2" | FLANGE | SA312 T | | SA182 T316L | 1 | | NONE | UW16.1(d) | | 4 |
| NITROGEN | 1 | 2" | FLANGE | SA312 T | | SA182 T316L | .154" | | NONE | UW16.1(d) | | |
| RUPTURE DISK | 1 | 2" | FLANGE | SA312 T | | SA182 T316L | .133 | | NONE | UW16.1(d) | | |
| SIGHT GLASS | 1 | 2" | PAD | SA240 T | | | | _== | NONE | UW16.1(d) | | |
| Spare | 1 | 2* | FLANGE | SA312 T | | | 1 7/8" | | NONE | UW16.1(d) | | |
| 20. Supports: Skir | t | No | Lugs | | | | | | NONE | UW16.1(d) | | |
| M.50 N W. | | (Yes or N | | (No.) | Legs | Other | s (4) S | 0.0000000000000000000000000000000000000 | | ached | ELDED TO SHE | LL WITH PAD |
| 21. Manufacturer's | Parti | | | iod and alaned by | . 0 1 | (No.) | | (Describe |) | | (Where and | l How) |
| (List the name | of par | t. item num | ber, mig's. name an | ed and signed by | Commiss. | ioned Inspectors hav | e been furn | ished for the | e following items of | the report: | | |
| · • • • • • • • • • • • • • • • • • • • | | ., | ाजा, mig s. nane an | a laeninying num | per) | | | | 2 | | | |
| | | | | | | | | | | | | |
| 22. Remarks: | | | | | | | | | | | X | |
| | | | | | | | | | | | | |
| UNIT WIL | L B | E USED | AS 36" OD S/ | S TANK. NO | ON-LET | HAL SERVICE | ONLY | | | | | |
| SEE AT | PAC | HED U | J-4 FORM | | | | OINDI. | | | | | |
| 1/2 | | | | 2 -7-2 -19-1 | | | | 9-22 | | | | |
| | | | | | | | | | | | | |
| We certify that t | he et | atamanta | mada in this | | CERTII | FICATE OF SH | OP COM | PLIANC | E | (V) 1000 m | | |
| the ASME Code | for I | atements | made in this repor | Tare correct an | nd that all | details of design, i | naterial, c | onstruction | , and workmans | hip of this ves | sel conform | ı to |
| | | | | in, Division i, | | | | | | | oci ocilioni | 110 |
| U Certificate of | Autho | orization N | lo. <u>24,5</u> | 84 | | E | xpires (| 1/05 | | . 19 99 |) | 1 |
| cen | 1 4 | 1006 | | | | | | | | | | |
| Date SEP | 7 0 | man' | lame ROBEN | mfg. Co. Inc | | | | | 11 1 | 101 | J.I | |
| | | | | | (Manufac | cturer) | 0.0 | _ | igned Ala | beh Ma | | |
| | | | 100m10 | C | EDTIEL | OATE OF OUR | DIMODE | OTION | | (Represent | ative) | |
| the undersigned, | holdi | ng a valid d | commission issued | byTheNationa | Boardof | Boiler and Pressu | r inspe | CHON | 34.V | | | |
| | | | The state of the s | VU COM | 11411.2 | Donor and 1 1655u | 0 4622611 | rspectors | ind the State or Pi | ovince of | NEW JI | |
| ю pressure vess | el de | scribed in | this Manufacturer | 's Data Report | on . | SEP 1 31919 | 96 | 72 | LONG GRO | | have insp | |
| lanufacturer has | const | ructed thi | s pressure vessel i | in accordance v | with A CAM | Code, Section VII | , ar | id state tha | at, to the best of I | ny knowledg | e and belief | , the |
| nployermakes a | ny w | arranty, e | KDressed orimnlie | d concerning th | MIN ASIVIE | code, Section VII | I, Division | 1. By signi | ng this certificate | neither the Ir | spector nor | his |
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| | | | /2 | ny personal mje | ary or pro | perty damage or a | loss of an | y kind arisi | ng from or conne | ected with this | inspection. | |
| ate SEP 1 | 3 篇 | Signe | d Marson | Pors | | | | NR | 7050AB | N.I.A. | 76 | |
| | | | 11/1 | uthorized Inspe | 011 | Cor | nmissions | | | | | |
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| e certily that the | state | mentson | thisreportarecorre | ctand that the | field asse | mbly construction | ofall parts | of this vess | el conforms with | thazaquizame | | _ |
| xde, Section VIII, | Divis | sion 1, | | | | | , | -1 11110 1000 | or comornis with | merequireme | ents of ASM | E |
| Certificate of Aut | noriz | ation No. | | | Y. | Expires | | | | . 19 | | |
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| | | | 05 | | | | | | (Representa | tive) | | |
| ho undersi I | | | CE | RIFICATE | OF FIE | LD ASSEMBLY | INSPE | CTION | | | | |
| d employed by | noldii — | ng a valid | commission issue | d by The Nation | nal Board | of Boiler and Pres | sure Vess | el Inspecto | ors and the State | or Province | of | |
| re compared the | state | ments in | this Manufacturer's | s Data Report v | with the de | escribed pressure | vessel and | l otata that | | | | |
| | | | | | | | | | | | | |
| I belief, the Manu | rfactu | irer has c | onstructed and as | sembled this pr | ASSIIRA VA | esel in accordance | ave Deell II | ispected b | y me and to the | best of my kn | owledge | İ |
| | | | | | | essel in accordance | | | | | | sel |
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| iable in any man | ner fo | or anv ner | sonal injury or pro | nerty domani | | | | | | | ployer shall | 19 |
| | | | -enamingury of pro | heiry damage c | or a loss o | of any kind arising | from or co | nnected wi | th this inspection | | W. | ï |
| θ | _ 8 | Signed | (<u></u> | | | Commission | | | | | | |
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FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

| actured for HC | FFMAN-LaR | OCHE INC. | 206 ROCHE DRIVE | (name and address of m BELVIDERE, NJ 07 | | 40 | | |
|--------------------|--|---------------|---------------------------------|--|---------------|---|--------------|--|
| | HOREMAN | A Laborieri | NG 222 DOGUE DDI | ame and address of purc | haser) | | 6 | |
| on of installation | HOFFMAI | N-Laroche I | NC. 233 ROCHE DRI | (name and address) | NJ 07823 | | | |
| ype: Vertical | | JA | CKETED TANK | 96034 | | | | |
| (horiz, | vert., or sphere) | | (tank, separator, heat exh., et | 2.) | | (mfg's serial n | | |
| (OD) | IX. | | D-96034 REV B | | 9236 | - | 1996 | |
| (CRi | () | | (drawing no.) | | (Nat'l. Bd. n | 10.) | (year built) | |
| Data Report | | | Pa | narks | × | <u> </u> | | |
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| id ODD | | TEG | NOZZLE / FLG. | NOM / CORR | | OZZLE / F | | |
| CKET INLET | 1" | COUPLING | SA182 T304 | 3000# NONE | | UW16.1(2-1) | | |
| CKET OUTLET | 1" | COUPLING | SA182 T304 | 3000# NONE | | UW16.1(2-1) | | |
| ARE | 1" | FLANGE | SA312 T316L | .154" NONE | NONE | UW16.1(d) | FIG 2-4(8a) | |
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| of Authorization: | Type " | U" | No. <u>24,584</u> | Expires <u>01/05</u> | | ,19 99 | 11 | |
| P 1 3 1996 | Name ROB | EN mfg. Co. I | nc. | Signed | _ Absh | lesh Math | 7 | |
| SEP 13 | 1996 | Name 1 | Misgles (Authorized Inspector) | Commission | NB 7 | 050AB, N Incl. endorsement, s | J 476 | |

