

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

A 942881

1-8-293

1. Manufactured and certified by CE NATCO 9423 Shepard Rd. S.E. Calgary, Alberta
(Name and address of manufacturer)

2. Manufactured for Husky Oil Operations 707 - 8 Avenue S.W. Calgary, Alberta T2P 2A8
(Name and address of purchaser)

3. Location of Installation 8-2-83-14-W5M (Job Site "Seal")
(Name and address)

4. Type Horizontal L-8-293 E-8816.2 EA-5152-03 - ISA
(Horizontal or vert. tank) (Mfg'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. 1986
Year

to 1987
Addenda (Date)

6. Shell: SA-516-70 .3125(7.9) .0625(1.6) 8'-0(2438)OD 20'-0(6100) S/S
Matl (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: DBL-V-BUTT SPOT 85% - DBL-V-BUTT **SPOT 2
Long. (Welded, Dbl., Engr., Lap, Butt) R.T. (Spot or Full) E.H. (PS) H.T. Temp. (F) Temp. Div. Girth (Welded, Dbl., Engr., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA-516-70 (b) Matl. SA-516-70
(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) | F/T | .692" | .0625" | | | F&D | | | | Concave |
| (b) | Coal | .461" | (1.6) | | | F&D | | | | Concave |

If removable bolts used (describe other fastenings) see attached RKC
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 50psi (345KPa) psi at max. temp. 200°F (93°C) °F
 Min. design metal temp. -20°F (-29°C) °F at 50psi psi. Hydro., pneu., or comb. test pressure 75psi (517 KPa) 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 |
|--------------------------------|-----|--------------|------|-------|----------|---------------------|--------------|----------|
| see Attached U-4 Form | | | | | | | | |

11. Supports: Skirt NO Lugs (No) Legs (No) Other Saddles Attached SHELL - welded
(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 the report: 8'-0(2438)OD x 20'-0(6100) S/S x 50psi(345KPa) Horizontal Hay Treater
Design to UG-20(f) No Impacts Required - NO C.A. ON E.T. & FRAME 3 3
** Head to Shell - UW 11a5b, Others - Spot Per Code Vol. 600FT 11/M

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. 11313 expires 9 Sep 1989
 Date 9/12/88 Co. name CE NATCO Signed [Signature] per R. Leach
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by CE NATCO at Calgary, Alberta
 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 Government
 have inspected the component described in this Manufacturer's Data Report on DEC 9th, 19 88, 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 881209 Signed [Signature] Commissions Alberta
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)

A242002

FORM U-4 MANUFACTURERS' DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by C.E. NATCO 9423 Shepard RD. S.E. Calgary, AB
(Name and address of manufacturer)

2. Manufactured for Husky Oil Operations 707 - 7 Avenue S.W. Calgary, AB T2p 2A8
(Name and address of purchaser)

3. Location of Installation 8-2-83-14-W5M (Job site "Seal")
(Name and address)

4. Type Horizontal Treater Vessel Number L-8-293 EA-5152-03 EA-5152-03
Horiz. Ven Tank, etc Migr serial C.R.N. DRWG. NO.

Year Built 1988
E-8816.2
D3 9/12/88 LG.

| Data Report Item Number | Remarks | | | | | | ATTACHED | |
|-------------------------|---------|-------|--------|---------|--------|------------|----------|--------------|
| PURPOSE | NO. | SIZE | TYPE | MAT'L | THICK. | RENF. MAT. | HOW | WHERE |
| Manway | M1 | 24" | FAB'D | SA106B | .500" | - | Welded | Head |
| Manway (DOME) | M3 | 24" | FAB'D | SA106B | .500" | - | Welded | Shell |
| Manway | M2 | 16" | PRES'D | SA285C | .625" | - | Welded | Shell |
| Manway | M4 | 16" | PRES'D | SA285C | .625" | - | Welded | Shell |
| F/T Frames | F1,2 | 18" | FAB'D | SA51670 | .625" | - | Welded | Head |
| Inlet | N1 | 4" | Pipe | SA106B | .337" | - | Welded | Shell |
| Oil Out | N2 | 4" | Pipe | SA106B | .337" | - | Welded | Shell |
| FWILC | N10 | 4" | Pipe | SA106B | .337" | - | Welded | Shell |
| LLSD | N11 | 4" | Pipe | SA106B | .337" | - | Welded | Shell |
| LLC Oil | N12 | 4" | Pipe | SA106B | .337" | - | Welded | Shell |
| TWILC | N13 | 4" | Pipe | SA106B | .337" | - | Welded | Shell |
| H.L.S.D | N15 | 4" | Pipe | SA106B | .337" | - | Welded | Shell |
| Anodes | A1,2 | 4" | Pipe | SA106B | .337" | - | Welded | Shell |
| F.W. Out | N3 | 3" | Pipe | SA106B | .300" | - | Welded | Shell |
| Gas Out | N5 | 3" | Pipe | SA106B | .300" | - | Welded | On Scrubber |
| Drains | N6,7 | 3" | Pipe | SA106B | .300" | - | Welded | Shell |
| Equalizer | N8,9 | 3" | Pipe | SA106B | .300" | - | Welded | Shell |
| Relief | N14 | 3" | Pipe | SA106B | .300" | - | Welded | Shell |
| T.W. Out | N4 | 2" | Pipe | SA106B | .343" | - | Welded | Shell |
| Thermostat | C16,17 | 1" | CPLG | SA105 | 6000# | - | Welded | Shell |
| Gas Preheat | C18,19 | 1" | CPLG | SA105 | 6000# | - | Welded | Head/Shell |
| Low Temp. Conn | C1 | .750" | CPLG | SA105 | 6000# | - | Welded | Shell |
| Level Gauges | C8-13 | .750" | CPLG | SA105 | 6000# | - | Welded | Shell |
| T.I. | C15 | .750" | CPLG | SA105 | 6000# | - | Welded | Shell |
| Level Gauges | C23,24 | .750" | CPLG | SA105 | 6000# | - | Welded | Shell |
| Samples | C2-5 | .500" | CPLG | SA105 | 6000# | - | Welded | Shell |
| P.I. | C14AB | .500" | CPLG | SA105 | 6000# | - | Welded | Shell |
| Pilot Preheat | C20,24 | .500" | CPLG | SA105 | 6000# | - | Welded | Head/Shell |
| Vent | C22 | .500" | TOL | SA105 | 3000# | - | Welded | on Equalizer |

Date 9/12/88 C.E. NATCO Manufacturer Signed [Signature] per R. Leach

Date 881209 Authorized Inspector's Signature [Signature] G. Gordon Commissions [Signature] Natl. Board, State, Province and No.