

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

\*\* Amended Copy

A 242049

1. Manufactured and certified by C-E Natco Limited 9423 Shepard Road S.E., Calgary  
 (name and address of manufacturer)

2. Manufactured for Oakwood Petroleum Limited #1800, 311 - 6 Avenue S.W., Calgary, Alberta  
 (name and address of purchaser)

3. Location of installation 4-1-13-13-W4  
 (name and address)

\*\* 4. Type: HORIZONTAL \*\* IM-2261 F-9229-2 DA-4974-03 1987  
 (horiz. or vert., tank) (mfr'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 Code, Section VIII, Division 1; 1986  
 (year)

6. Shell: SA-516-70 .375(9.5) .0625"(1.6) 8'-0(2438) 20'-0(6100)  
 (mat'l. spec. no., grade) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length overall) (ft. & in.)

7. Seams: DBL-V-BUTT SPOT 85 DBL-V-BUTT \*\* 2  
 (long, welded, dbl., singl. lap, butt) (RT spot or full) (eff. (%)) (HT temp. (\*F)) (time (hr.)) (mat'l. spec. no., grade) (no. of courses) (singl., lap, butt) or full)

8. Heads: (a) SA-516-70 (b) SA-516-70  
 (mat'l. spec. no., grade) (mat'l. 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 c' concave)
(a) FT	.500"	.0625"			F&D				CONCAVE
(b) COAL	(12.7)	(1.6)			F&D				CONCAVE

If removable, bolts used (describe other fastenings):

9. MAWP: 75(517) at max. temp. 200(93) Min. temp. Hydro., pneu. or comb. test pressure 112(775)  
 (psi) (\*F) (when less than -20°F) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
SEE ATTACHED U-4 FORM								

11. Supports: Skirt NO Lugs NO Legs NO Other SADDLES Attached BTM WELDED  
 (yes or no) (no.) (no.) (describe) (where & how)

12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

8'-0(2438) x 20'-0(6100) @ 75 PSI(517) D.P.  
HORIZONTAL PERFORMAX F.W.K.O.  
VOL. 1100 FT<sup>3</sup>(31)

\*\* UW 11a5b

**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 9/9, 1989  
 Date 21 Jan 88 Nam' C-E Natco Limited, Signed R. Leach  
 (manufacturer) (representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by C-E Natco Limited at Calgary  
 I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of Alberta and employed by Government  
 of Alberta have inspected the component described in this Manufacturers' Data Report on Jan 21, 1988 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 that may result from or connected with this inspection.  
 Date Jan 21, 1988 Signed G. Gordon Commissions Alberta  
 (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state, prov. and no.)

S.O. 4974 VI

\* corrected copy

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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 LIMITED 9423 Shepard Rd. S.E. Calgary, AB  
(Name and address of manufacturer)
2. Manufactured for OAKWOOD PETROLEUMS LIMITED  
(Name and address of purchaser)
3. Location of Installation 4-1-13-13-W4
4. Type HORIZONTAL Vessel Number L 07-2261 F-9229.2 DA-4974-03  
Horizontal Tank, etc. Mfg. serial No. Dwg. Natl. Std. No.

Year Built 1987  
211/88

Data Report Item Number	Remarks				ATTACHED			
	NO.	SIZE	TYPE	MAT'L	THICK.	RENF. MAT.	HOW	WHERE
MANWAY	N1	24"	Pipe	SA-106B	.500"	-	WELDED	HEAD
INLET	N1	4"	Pipe	SA-106B	.337"	-	WELDED	SHELL
WATER OUT	N3							✓
INTERFACE L.C	N7							✓
L.L.S.D	N8							✓
ANODE	A1-2							✓
OIL/GAS OUT	N2-	3"	Pipe	SA-106B	.300"	-	WELDED	SHELL
DRAIN	N4							✓
DRAIN	N5							✓
RELIEF	N6							✓
T.C.	C9	1"	CPLG	SA-105		6000#	WELDED	SHELL
H.T.S.D	C10							✓
F.U. PREHEAT	C13							✓
F.G. PREHEAT	C14							HEAD
SAMPLE	C1-4	.50"	CPLG	SA-105		6000#	WELDED	SHELL
LEVEL GA	C5ab							✓
LEVEL GA.	C6ab							✓
P.I.	C7							✓
T.I.	C8							✓
PILOT PREHEAT	C11							✓
PILOT PREHEAT	C12							HEAD

Date 08/10/87 C.E. NATCO LIMITED  
 Manufacturer [Signature] Signed [Signature]  
 Date 07-10-08 per R. LEACH Commissions [Signature]

50. 4974-V1