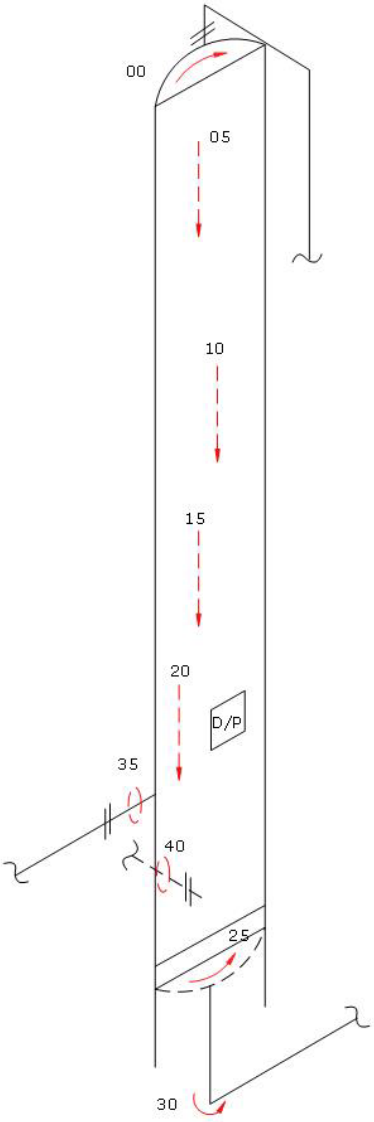
Husky Energy

Location Name:	ANSELL GAS PLANT	LSD:	07-27-051-19W5
A#:	A0157978	Equipment/Tag No.	T-101
Equipment Description:	STABILIZER TOWER	Serial Number:	1704.201
		CRN: (or other ID#)	F2109.2
MAWP:	485 PSI	Design Temp:	354°F
Shell Material:	SA 516 70	Head Material:	SA 516 70
Shell Thickness:	0.625”	Head Thickness:	0.543”
Corrosion Allowance:	3.2MM	Date Built:	1984
Size:	INS	Manufacturer:	N/L

Notes: CML 30 EROSION NOTED. NO ACCESS TO CML LOCATIONS ABOVE BOTTOM PLATFORM (00,05,10)

STREAMLINE INSPECTION LTD.

Husky Energy



STREAMLINE INSPECTION LTD.

Ultrasonic Corrosion Survey

Survey Name: Husky Energy **Date:** Jul 11, 2014

Inspector: C. Graham

LSD:	07-27-051-19W5	**Area:**	Ansell		**Location:**	Gas Plant		
A #:	A0157978	**Tag Number:**	T-101		**Vessel Name:**	Stabilizer Tower		
CRN:	F2109.2	**Year Built:**	1984		**Serial Number:**	1704.201		
		Vessel CA:	3.2	mm	**Manufacturer:**			
		Shell MAWP:	485psi	**MAWTF:** 354°F	**Tube MAWP:**		**MAWTF:**	

TML Description			Baseline				**Material:**	SA-516-70
00	Head		**2014**	**Flag**	**CA**	**Nominal**	**T Min**	**Corr. Rate**
Shape:	Ellipsoidal	**Min**		10.592	3.200	13.792		
OD:		**Avg**						**Remaining Life:**
Spec:	ASME VIII Div.1	**Comments:**	No Access					**Retirement Date:**

TML Description			Baseline				**Material:**	SA-516-70
05	Shell		**2014**	**Flag**	**CA**	**Nominal**	**T Min**	**Corr. Rate**
Shape:	Cylindrical	**Min**		12.675	3.200	15.875		
OD:		**Avg**						**Remaining Life:**
Spec:	ASME VIII Div.1	**Comments:**	No Access					**Retirement Date:**

TML Description			Baseline				**Material:**	SA-516-70
10	Shell		**2014**	**Flag**	**CA**	**Nominal**	**T Min**	**Corr. Rate**
Shape:	Cylindrical	**Min**		12.675	3.200	15.875		
OD:		**Avg**						**Remaining Life:**
Spec:	ASME VIII Div.1	**Comments:**	No Access					**Retirement Date:**

TML Description			Baseline				**Material:**	SA-516-70
15	Shell		**2014**	**Flag**	**CA**	**Nominal**	**T Min**	**Corr. Rate**
Shape:	Cylindrical	**Min**	16.210	12.675	3.200	15.875		
OD:		**Avg**	16.330					**Remaining Life:**
Spec:	ASME VIII Div.1	**Comments:**						**Retirement Date:**

Ultrasonic Corrosion Survey

Survey Name: Husky Energy **Date:** Jul 11, 2014

Inspector: C. Graham

LSD:	07-27-051-19W5	**Area:**	Ansell		**Location:**	Gas Plant		
A #:	A0157978	**Tag Number:**	T-101		**Vessel Name:**	Stabilizer Tower		
CRN:	F2109.2	**Year Built:**	1984		**Serial Number:**	1704.201		
		Vessel CA:	3.2	mm	**Manufacturer:**			
		Shell MAWP:	485psi	**MAWTF:** 354°F	**Tube MAWP:**		**MAWTF:**	

TML Description			Baseline				**Material:**	SA-516-70	
20	Shell		**2014**	**Flag**	**CA**	**Nominal**	**T Min**	**Corr. Rate**	
Shape:	Cylindrical	**Min**	16.480	12.675	3.200	15.875			
OD:		**Avg**	16.740					**Remaining Life:**	
Spec:	ASME VIII Div.1	**Comments:**						**Retirement Date:**	

TML Description			Baseline				**Material:**	SA-516-70	
25	Head		**2014**	**Flag**	**CA**	**Nominal**	**T Min**	**Corr. Rate**	
Shape:	Ellipsoidal	**Min**	15.320	10.592	3.200	13.792			
OD:		**Avg**	15.930					**Remaining Life:**	
Spec:	ASME VIII Div.1	**Comments:**						**Retirement Date:**	

TML Description			Baseline				**Material:**	A-234-WPB	
30	Nozzle		**2014**	**Flag**	**CA**	**Nominal**	**T Min**	**Corr. Rate**	
Shape:	90° Elbow	**Min**	7.520	7.623	1.089	8.712	2.540	1.537	
OD:	2.375"	**Avg**	7.770			Assumed		**Remaining Life:**	127.53 Years
Spec:	ASME VIII Div.1	**Comments:**	Erosion Noted					**Retirement Date:**	1/19/2142

TML Description			Baseline				**Material:**	A-234-WPB	
35	Nozzle		**2014**	**Flag**	**CA**	**Nominal**	**T Min**	**Corr. Rate**	
Shape:	90° Elbow	**Min**	18.800	15.958	2.280	18.237			
OD:	6.625"	**Avg**	19.180			Assumed		**Remaining Life:**	
Spec:	ASME VIII Div.1	**Comments:**						**Retirement Date:**	

Ultrasonic Corrosion Survey

Survey Name: **Husky Energy** **Date:** **Jul 11, 2014**

Inspector: C. Graham

LSD:	07-27-051-19W5	**Area:**	Ansell			**Location:**	Gas Plant	
A #:	A0157978	**Tag Number:**	T-101			**Vessel Name:**	Stabilizer Tower	
CRN:	F2109.2	**Year Built:**	1984			**Serial Number:**	1704.201	
		Vessel CA:	3.2	mm		**Manufacturer:**		
		Shell MAWP:	485psi	**MAWTF:**	354°F	**Tube MAWP:**		**MAWTF:**

TML Description			Baseline				**Material:**	A-234-WPB
40	Nozzle		**2014**	**Flag**	**CA**	**Nominal**	**T Min**	**Corr. Rate**
Shape:	360° Circ	**Min**	15.060	13.335	1.905	15.240		
OD:	3.5"	**Avg**	15.320			Assumed		**Remaining Life:**
Spec:	ASME VIII Div.1	**Comments:**						**Retirement Date:**

C-600

A157978

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

(A) 157978

1. Manufactured and certified by Vada Ind. Steel-Flo Div. 100 Stockton Avenue Okotoks, Alberta
(Name and address of manufacturer)

2. Manufactured for Cord Project Ltd. 4th Floor 10201 Southport Rd. S.W. Calgary, Alta
(Name and address of purchaser)

3. Location of installation User-Western Decalta L.S.D. -10,-12,-19,-2, -W5M
(Name and address)

4. Type Vertical | 1704-201 (Mfr's serial No.) | F-2109.2 (CRN) | SFV1704-201 Rev. 3 (Drawing No.) | (Nat'l Bd. No.) | 1984 (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 1983 (Year)
to Winter 1983 (Addenda (Date)) (Code Case Nos.) (Special Service per UG 120(d))

6. Shell: SA 516-70 (Matl. (Spec. No., Grade)) | .625 (Nom. Thk. (in.)) | .125" (Corr. Allow. (in.)) | 2'6" (Diam I.D. (ft. & in.)) | 67' 10" (Length (overall) (ft. & in.))

7. Seams: DBL Butt (Long. (Welded, Dbl., Sngl., Lap, Butt)) | Full (R.T. (Spot or Full)) | 1.0 (Eff. (%)) | 1125° (H.T. Temp. (°F)) | 3/4 hr (Time (hr)) | DBL Butt (Girth (Welded, Dbl., Sngl., Lap, Butt)) | Full (R.T. (Spot, Partial or Full)) | 7 (No. of Courses)

8. Heads: (a) Matl. SA 516-70 (Spec. No., Grade) (b) Matl. SA 516-70 (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)	Top	.543	.125			2:1			30"	Concave
(b)	Bottom	.543	.125			2:1			30"	Concave

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

9. MAWP 486 psi at max. temp. 354 °F
Min. temp. (when less than -20°F) °F. Hydro., pneu., or comb. test pressure 729 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 Remarks						

11. Supports: Skirt Yes (Yes or no) Lugs 2 (No.) Legs (No.) Other (Describe) Attached Welded to Heads/Shell (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: See attached U4 form for Item #10
(Name of part, item number, Mfg'r's name and identifying stamp)

Volume = 313.9 Ft³
Cord Projects P.O. #CPL-177-2000-21
T-101 Stabilizer Tower (Sour Service)

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. 18,180 expires Jan 86.

Date 11/28/84 Co. name Vada Ind. Steel-Flo Div. (Manufacturer) Signed (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Vada Ind. Steel-Flo Div 100 Stockton Avenue Okotoks, Alta

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 General Safety Services, Boilers Branch have inspected the component described in this Manufacturer's Data Report on NOV 28, 1984, 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 NOV 28, 84 Signed (Authorized Inspector) Commissions (Nat'l Board (incl. endorsements), State, Prov. and No.)

(12/82)

This form (E00117) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

A157978 **FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET** (A)157978
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Vada Ind. Steel-Flo Div. 100 Stockton Avenue Okotoks, Alberta
(Name and address of manufacturer)

2. Manufactured for Cord Projects Ltd. 4th Floor,10201 Southport Rd. S.W. Calgary, Alta
(Name and address of purchaser)

3. Location of installation User-Western Decalta L.S.D. -10,-12,-19,-2,-W5M
(Name and address)

4. Type Vertical (Horiz., vert., tank, etc.) 1704-201 (Mfg's. serial No.) F-2109.2 (CRN) SFV 1704-201 Rev. 3 (Drawing) (Nat'l. Bd. No.) 1984 (Year built)

Data Report Item Number	Purpose	No.	Diam Size	Type	Material	Nom Thk	Reinforce Material	How Att.	Location
	Inlet/TE/TW/TI	7	2"	RFWN	SA 106-B	.343	Weld Metal	Welded	Shell
	Reboiler Feed	1	4"	RFWN	SA 106-B	.531	Weld Metal	Welded	Shell
	Vap. Return	1	6"	RFWN	SA 106-B	.718	Weld Metal	Welded	Shell
	Bridle	2	3"	RFWN	SA 106-B	.437	Weld Metal	Welded	Shell
	M' ways	2	20"	RFWN	SA516-70	.625	SA 516-70	Welded	Shell
	Vap out/Liq/out	2	2"	RFWN	SA 106-B	.343	Weld Metal	Welded	Heads

Remarks

Date 11/28/84 Co. name Vada Ind. Steel-Flo Div (Manufacturer) Signed (Representative)

Date NOV 28, 84 Signed (Authorized Inspector) Commissions (Nat'l Board (incl. endorsements), State, Prov., and No.)

(12/82)

This form (E00118) is available from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017