

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 07-27-051-19W5M Date: JULY 14, 2014 SAP Equipment ID: 66004968

VESSEL STATIC DATA												
Plant	Ansell Gas F	Plant	Op Un	it			Syste	System				
Prov. Insp. #	A0157868		CRN	F-	1007.2		Equip	Tag#	V-701A			
Equipment D	escription	Propan	e A Bull	let			Seria	Serial # 1668-201A				
Manufacturer	<u> </u>	-					Vesse	el Clas	s			
Internal Acce	ess: yes	Descrip	otion: N	lanway	y, side s	hell	Year	Built	1984			
MAWP 28		PSI			154	°F	MDM.	MDMT °F				
CODE: U			RT: 2	2			PWH	PWHT:				
Diameter	Le	ngth (	(s/s) in OAL mm/in				n		Horizontal			
Shell Mat		·· <b>·····</b>	Thickr	ness		1.220 in		llowan				
Head Mat	'I SA-516-70		Thickr	ness		1.375 in	Corr A	Allowan	<b>ce</b> 0.063 in			
Nozzle Mat	.'1		Thickr	ness		in	Corr A	Allowan	ce mm			
Internal Coat	ina: <del>YES NO</del>	<u> </u>	Interna		I: ¥E	S NO	Сара	citv	m3			
Manway :	ves		Inspec				Sadd					
Nozzle Rating		o ANSI	Painte		yes		Insula		no			
PROCESS DATA												
Product Desc	Product Description Propane Sweet											
Operating Pro			PS			Operating Ten	nperature	22	°C			
				TIC DATA								
	Location	S	et	Cap	oacity	Manufacturer	Model /	Туре	Service Date /			
Serial No.			sure	GPM					Company			
C25275-A10	top shell	280psi	7245scfm		scfm	Farris	26JA11	-120	09/11. Wizard. PSV-7001B			
				SOUTH	I PSV DI	ETAILS			1.01.100.2			
	Type (Th	read/Fl	ange)	nge) ANSI Rating					Size (in)			
PRD Inlet	Flanged							2"				
PRD Outlet	Flanged		110	NORTH PSV STATIC DATA				3"				
	Location	9	et					Type	Service Date /			
	Location	3	El	Cap	Jacity	Walturacturer	Model /	ı yp <del>e</del>	Service Date /			
Serial No.		Pres	sure	SCFM/I	Lbs/Hr /				Company			
AAC671	Top shell	250psi	GPM GPM			Fisher Combo Joe – Manifold. 4 x Fisher gas Safety release valves	H503-28	80	09/11. Wizard. PSV-7001A			
				VORTH	I PSV DI			1				
	ange)			ANSI Rating		411.21	Size (in)					
PRD Inlet	RD Inlet Flanged								4" flanged into manifold, 4 x 3" out of manifold			
PRD Outlet	Outlet Threaded					swedging down to 2" 4 x 3" stacks						
. ILD Gallet	711104404		NI	DE Ear	uipment	records		1 1 7 0	- Clauliu			
Procedure#	Description	Manuf	acturer		Model	Serial#	Serial# Due Date					
	-											



### PRESSURE VESSEL & COLUMN INSPECTION REPORT

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#### INSPECTION SUMMARY

A visual external inspection was conducted on vessel while in operation. Dataplate appears secure, too high to access. Dataplate worn, only stamped info legible. Vessel high off ground. Vessel and piping are in good condition, piping well supported. Vessel and piping paint in good condition with some minor areas of deterioration, a few to bare metal. No corrosion noted. Vessel saddle seal welded, bolted securely to support structure. Ground cable securely attached directly to saddle support. 2 PSVs. South is a single unit, vertical stack has a weather cap and a hole drilled at bottom of 90 for drainage. North is a 1 into 4 manifold, with all 4 stacks having a weather cap. Both PSVs have up to date service. South PSV set at MAWP, North PSV manifold set below MAWP, both vent to atmosphere. PSV inlet isolation valves are carsealed open. UT inspection performed 2014 by Streamline Inspection.

Vessel was found to be in good condition and fit for continued service.

		RECOMMEI	NDATIONS			
Review UT survey resul	lts.					
	NO	ONCONFORMANCES / IN	SPECTION DEFI	CIENCIES		
No deficiencies noted						
		INSPECTION	PI ANNING			
Inspection Strategy		Availability	LAMMING	Inspection Interv	<i>r</i> al	
Inspection Date	July 14, 2014	Date of Last Inspect	Date of Next Ins	oect		
		•		•		
		DEBORT CEE	TITIC ATION			
The signatures below	certify that inspection	REPORT CER ons/tests have been complet		with the identified	inspection s	strategy and that
		or service until the date of n				3,
Inspected by		Ed Tymensen	1		Date	July 14, 2014
Company		Streamline Inspection	PESL #	000711	API#	27479
Reviewed and Approv	ed by				Date	
			PESL#		API#	
Criticality Assessmen	t Rerun		Inspection Pla	nning Rerun		
Assessed Next Inspec	tion Date					



### PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 07-27-051-19W5M Date: JULY 14, 2014 SAP Equipment ID: 66004968

### **DETAILED INSPECTION VISUAL EXTERNAL**

ID	Description	Condition	Location	NCR	Comments
	•				
V1	General Other (Please Explain)	Good			Overall
V2	General Corrosion	n/a			No corrosion noted
V3	General Leaks	n/a			No leaks noted
V4	Vibration	n/a			Olas Hamas Cara
V5	Dissimilar Flange Rating	Good	Ladden alattana		Similar ratings
V6	Ladder/Stairway	Good	Ladder, platform		Secure, safety chain across platform opening present
V7	Heads	Good			No corrosion or damage
V8	Guy Wires	n/a			
V9	Electrical Ground	Good	Attached to Saddle support		Present and secure
V10	Painted Inactive Corrosion	n/a			
V11	Coating/Painting	Good	Vessel shell, flanges, piping		Some minor areas of paint deterioration, a few to bare steal, no corrosion
V12	Expansion Joint or Bellows	n/a			
V13	Gauge/Site Glass	Good	Psi, level, temp		Gauges clear and legible
V14	Shell	Good			No corrosion or damage
V15	Jacket	n/a			
V21	Support Other (Please explain)	Good	Piping		Well supported
V22	Foundation	Good			Bolted to steel structure / steel piles
V23	Anchor Bolts	Good			Appear secure, limited visual
V24	Saddle/Skirt	Good	Saddle		bolted to I beam, saddle seal welded
V25	Davit	n/a			
V26	Fireproofing	Good	Steel piles / supports		Some fireproofing damage at base of supports directly above ground
V31	Connections Other (Please explain)	Good			All connections appear secure
V32	Small Branches	Good	Tubing		No leaks or kinks
V33	Nozzles	Good			No damage or corrosion
V34	Manways	Good			Davit single nut only
V35	Reinforcing Pads	Good			Weepholes present, free of debris, no evidence of leaks
V36	Inadequate Thread Engagement	Good			Adequate
V37	Bolting	Good			All bolting tight and secure, no corrosion of threads
V38	Flanges	Good			No leaks or corrosion
V39	Leak Clamps	n/a			
V41	Insulation Other (Please explain)	n/a			
V42	Damage	n/a			
V43	Penetrations	n/a			
V44	Insulation Jacket	n/a			
V45	Banding	n/a			
V46	Seals/Joints	n/a			
V51	Relief Devices Other (Please explain)	Good	Top shell		PSV service up to date, South PSV set at MAWP. North PSV manifold set below MAWP
V52	Corrosion	n/a			None noted
V53	Leaks	n/a			None noted
V54	Restricted Inlet/Outlet	n/a			
V55	Manual Operation Lever	Good	PSV inlet isolation valves		Isolation valves carsealed open



### PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 07-27-051-19W5M Date: JULY 14, 2014 SAP Equipment ID: 66004968

### **DETAILED INSPECTION VISUAL INTERNAL**

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	n/a			
V2	Corrosion (depth, length, width)	n/a			
V3	Erosion	n/a			
V4	Distortion	n/a			
V5	Blisters	n/a			
V6	Deposits	n/a			
V7	Heads	n/a			
V8	Welds	n/a			
V9	Nozzles	n/a			
V10	Shell	n/a			
V11	Gasket Surfaces	n/a			
V21	Internals Other (Please explain)	n/a			
V22	Demister	n/a			
V23	Baffle/Wier	n/a			
V24	Sparger	n/a			
V25	Thermowells	n/a			
V26	Metallic Linings	n/a			
V27	Nonmetallic Linings	n/a			
V28	Trays	n/a			
V29	Tray Rings	n/a			
V30	Other Welded Attachments	n/a			

### **DETAILED INSPECTION OTHER TECHNIQUES**

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

#### **DETAILED INSPECTION UT THICKNESS**

CML	Nom. Thk	Current Reading	Short Term Corr Rate	Long Term Corr Rate	Remaining Life	Comments



### PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 07-27-051-19W5M Date: JULY 14, 2014 SAP Equipment ID: 66004968

### **PHOTOS**





LSD sign

Vessel information





Dataplate

Overview





Overview

Shell paint damage



### PRESSURE VESSEL & COLUMN INSPECTION REPORT

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### **PHOTOS**





### PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 07-27-051-19W5M Date: JULY 14, 2014 SAP Equipment ID: 66004968

### **PHOTOS**



South PSV Dataplate



South PSV and North PSV manifold overview



North PSV manifold tag



North PSV manifold service tag



North PSV manifold Dataplate



North PSV manifold individual PSV info

# Husky Energy

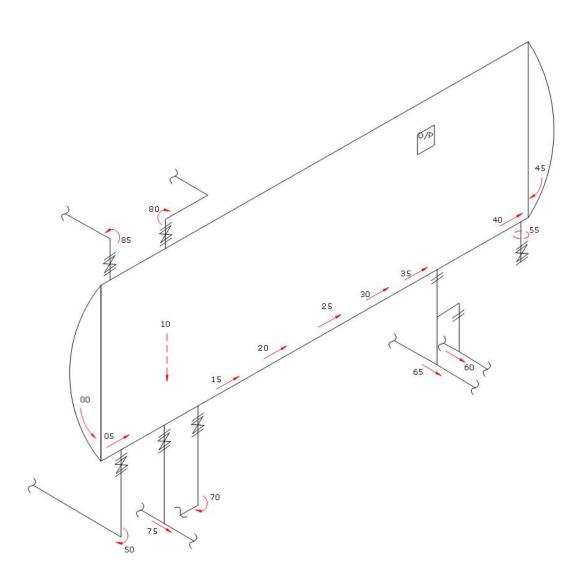
Location Name:	ANSELL GAS PLANT	LSD:	07-27-051-19W5
A#:	A0157868	Equipment/Tag No.	V-701A
<b>Equipment Description:</b>	PROPANE A	Serial Number:	1668-201A
		CRN: (or other ID#)	F-1007.2
MAWP:	280 PSI	Design Temp:	154°F
Shell Material:	SA 516 70	Head Material:	SA 516 70
Shell Thickness:	1.220"	Head Thickness:	1.375"
Corrosion Allowance:	0.063"	Date Built:	1984
Size:	144"	Manufacturer:	N/A

Notes:





# Husky Energy





# Husky Energy







ASME VIII Div.1

Spec:

15

OD:

**TML Description** 

Shell

144"

**Spec:** ASME VIII Div.1

**Shape:** Cylindrical

**Comments:** 

**Comments:** 

Min

Avg

Baseline

2014

32.130

32.210

### **Ultrasonic Corrosion Survey**

Survey Name: Husky Energy Date: Jul 14, 2014

Inspector: C. Graham

**Retirement Date:** 

Corr. Rate

**Remaining Life:** 

**Retirement Date:** 

Material: SA-516-70

T Min

Nominal

30.988

LSD: A #: CRN:	07-27-051-19W5 A0157868 F-1007.2	Area: Tag Number: Year Built: Vessel CA: Shell MAWP:	1984 1.6002	mm <b>MAWTF</b> :	154°F	Location: Vessel Name: Serial Number: Manufacturer: Tube MAWP:	Gas Plant Propane A 1668-201A		
TML D	escription		Baseline					Material:	SA-516-70
00	Head		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	Ellipsoidal	Min	36.780		33.325	1.600	34.925		
OD:	144"	Avg	36.960						Remaining Life:
Spec:	ASME VIII Div.1	Comments:							Retirement Date:
TML D	escription		Baseline					Material:	SA-516-70
05	Shell		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	Cylindrical	Min	31.320		29.388	1.600	30.988		
OD:	144"	Avg	31.620						Remaining Life:
Spec:	ASME VIII Div.1	Comments:							Retirement Date:
TML D	escription		Baseline					Material:	SA-516-70
10	Shell		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	Cylindrical	Min	31.600		29.388	1.600	30.988		
OD:	144"	Avg	31.900						Remaining Life:
		_							<u> </u>

Flag

29.388

CA

1.600



144"

**Spec:** ASME VIII Div.1

Avg

**Comments:** 

32.130

OD:

# **Ultrasonic Corrosion Survey**

Survey Name: Husky Energy Date: Jul 14, 2014

Inspector: C. Graham

**Remaining Life:** 

**Retirement Date:** 

									opestorr or orana
LSD:	07-27-051-19W5	Area:	Ansell			Location:	Gas Plant		
A #:	A0157868	Tag Number:	V-701A			Vessel Name:	Propane A	1	
CRN:	F-1007.2	Year Built:	1984			Serial Number:	•		
		Vessel CA:	1.6002	mm		Manufacturer:			
		Shell MAWP:		MAWTF:	154°F	Tube MAWP:		MAWTF:	
			·						
TML De	escription		Baseline					Material:	A-234-WPB
20	Shell		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	Cylindrical	Min	32.230		29.388	1.600	30.988		
OD:	144"	Avg	32.310						Remaining Life:
Spec:	ASME VIII Div.1	Comments:							Retirement Date:
TML De	escription		Baseline					Material:	SA-516-70
25	Shell		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	Cylindrical	Min	32.180		29.388	1.600	30.988		
OD:	144"	Avg	32.360						Remaining Life:
Spec:	ASME VIII Div.1	Comments:							Retirement Date:
TML De	escription		Baseline					Material:	SA-516-70
30	Shell		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	Cylindrical	Min	31.700		29.388	1.600	30.988		
OD:	144"	Avg	31.880						Remaining Life:
Spec:	ASME VIII Div.1	Comments:							Retirement Date:
ΓML De	escription		Baseline					Material:	SA-516-70
35	Shell		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	Cylindrical	Min	31.980		29.388	1.600	30.988		
•	•								



**Spec:** ASME VIII Div.1

**Comments:** 

# **Ultrasonic Corrosion Survey**

Survey Name: Husky Energy Date: Jul 14, 2014

Inspector: C. Graham

**Retirement Date:** 

									mspector. C. Granam
LSD:	07-27-051-19W5	Area:	Ansell			Location:	Gas Plant		
A #:	A0157868	Tag Number:	V-701A			<b>Vessel Name:</b>	Propane A		
CRN:	F-1007.2	Year Built:	1984			Serial Number:	1668-201/	A	
		Vessel CA:	1.6002	mm		Manufacturer:			
		Shell MAWP:	280psi	MAWTF:	154°F	Tube MAWP:		MAWTF:	
TML De	escription		Baseline					Material:	A-234-WPB
40	Shell		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	Cylindrical	Min	31.240		29.388	1.600	30.988		
OD:	144"	Avg	31.570						Remaining Life:
Spec:	ASME VIII Div.1	Comments:							Retirement Date:
TML De	escription		Baseline					Material:	SA-516-70
45	Head		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	Ellipsoidal	Min	37.570		33.325	1.600	34.925		
OD:	144"	Avg	37.900						Remaining Life:
Spec:	ASME VIII Div.1	Comments:							Retirement Date:
TML De	escription		Baseline					Material:	A-234-WPB
50	Piping		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	90° Elbow	Min	5.610		4.801	0.686	5.486		
OD:	3.5"	Avg	5.970						Remaining Life:
Spec:	ASME B31.3	Comments:							Retirement Date:
TML De	escription		Baseline					Material:	A-234-WPB
55	Nozzle		2014		Flag	CA	Nominal	T Min	Corr. Rate
Shape:	360° Circ	Min	8.710		7.623	1.089	8.712		
OD:	2.375"	Avg	9.020						Remaining Life:



# **Ultrasonic Corrosion Survey**

Survey Name: Husky Energy Date: Jul 14, 2014

Inspector: C. Graham

LSD:	07-27-051-19W5	Area:	Ansell			Location:	Gas Plant
A #:	A0157868	Tag Number:	V-701A			Vessel Name:	Propane A
CRN:	F-1007.2	Year Built:	1984			Serial Number:	1668-201A
		Vessel CA:	1.6002	mm		Manufacturer:	
		Shell MAWP:	280nsi	MAWTF:	15 <b>4</b> °F	Tube MAWP:	MAW/TF:

SHEIL WIAVVE.	Zoupsi	IVIAVVIT.	134 F	Tube MAN	/r.	IVIAVVIF.

TML De	escription		Baseline				Material:	A-234-WPB
60	Piping		2014	Flag	CA	Nominal	T Min	Corr. Rate
Shape:	Tee	Min	7.820	4.801	0.686	5.486		
OD:	3.5"	Avg	9.070					Remaining Life:
Spec:	ASME B31.3	Comments:						Retirement Date:
TML De	escription		Baseline				Material:	A-234-WPB
65	Piping		2014	Flag	CA	Nominal	T Min	Corr. Rate
Shape:	90° Elbow	Min	11.630	7.156	1.022	8.179		
OD:	8.625"	Avg	11.840					Remaining Life:
Spec:	ASME B31.3	Comments:						Retirement Date:
TML De	escription		Baseline				Material:	A-234-WPB
70	Piping		2014	Flag	CA	Nominal	T Min	Corr. Rate
Shape:	90° Elbow	Min	3.480	3.423	0.489	3.912		
OD:	2.375"	Avg	3.940					Remaining Life:
Spec:	ASME B31.3	Comments:						Retirement Date:
TML De	escription		Baseline				Material:	A-234-WPB
75	Piping		2014	Flag	CA	Nominal	T Min	Corr. Rate
Shape:	, •	Min	7.370	3.423	0.489	3.912		
OD:	2.375"	Avg	8.280					Remaining Life:
Spec:	ASME B31.3	Comments:						Retirement Date:



**Comments:** 

Spec: ASME B31.3

### **Ultrasonic Corrosion Survey**

Survey Name: Husky Energy Date: Jul 14, 2014

Inspector: C. Graham

**Retirement Date:** 

LSD: 07-27-051-19W5 Area: Ansell Location: Gas Plant Tag Number: V-701A Propane A A #: A0157868 **Vessel Name:** CRN: F-1007.2 Year Built: 1984 Serial Number: 1668-201A

**Vessel CA:** 1.6002 mm **Manufacturer:** 

Shell MAWP: 280psi MAWTF: 154°F Tube MAWP: MAWTF:

**TML Description** Baseline Material: A-234-WPB 80 **Piping** 2014 Flag CA Nominal T Min Corr. Rate Shape: 90° Elbow Min 5.310 4.801 0.686 5.486 3.5" **Remaining Life:** OD: Avg 5.440 Spec: ASME B31.3 **Retirement Date: Comments:** Baseline **TML Description** Material: A-234-WPB 2014 CA 85 **Piping** Flag **Nominal** T Min Corr. Rate Shape: 90° Elbow Min 4.845 0.692 5.537 2.375" OD: Avg **Remaining Life:** 

A157868

FORM U-1A NUFACTURER'S DATA REPORT FOR PRE IRE VESSELS (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only) (A) 157 868
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1.	Manufactured a	ind certif	ied by V	ada Ind	. Ste	el-Flo I	) iv. 10	O Stockt	on Ave.	Okotok	s, Alberta
2.	Manufactured f	orCo	ord Pro	oject L	td. 4	th Floor	Name and address of	1 Southp	ort Rd.	S.W.Ca	lgary, Alia
3.	Location of ins					lta L.S.	D10-	12-19-2-			. :
4.	Type Hori	zonka	al	1668-20	1 A	F1007.2	SFV	1666-201	Rev.3		1984
_										ILBANA) ASME ROLLER	AND PRESSURE
5.	VESSEL CODE	and phi The day	vsical: prose sign, constru	ction, and we	rk manshij	p conform to AS	ME Rules, Se	ection VIII, Divi	sion 1	1983	
	to Wint	er 1								Sancral Secure per 18	170(d)
_	S	A 51	6 – 7 0		.250			11' 8½'	t	7	6'0"
6.	Shell:		pec. No ; Grade)		NOTE I					Ler Ler	ngth (overzil ) (it & in )
7.		L Bu		full B.T (Spot or Full	<del>,</del> - <u>-</u> -	L.O N.		merhij C	ursh (Welded, Obl.		
Э.	Heads: (a) Ma	Carl Jan S	tee)	70			(b) Ma			φ +u	
		T	- <del> </del>		.—			Т	F	T	COSA OPPORT
	Location (Top Bottom, Ends)	Minim Thickn		owance	Crown Radius	Knackle Reden	Ethiptical Ratio	April Angle	Hamspurica Hamas	Diameter	(Conver or Concave)
(a)	Enas	1.19	0. "ك	63			?:1			12'0"	Concave
[ 00	<u> </u>	L			·	<u> </u>	.,	<u>.</u>	L		
1	f removable, bo	its used (	describe oth	er fastenings)				(Math., Spec No.,	Gr. Sire, No.)	and the second s	
9.	MAWP_Int	1-2	80/Ext	<u>'1-15</u>		psi a	t max. temp	154		420	°F
					<u></u>	°F.	. Hydro., pnei	u., or comb. test	pressure	720	psi:
10.	Nozzles, inspec		Diam	i	T	Mail	N/A  HT. Temp. (F)  Time 'hij Gish (Welded, Obt. Sept. No., Grade)  (b) Matt. (Spec. No., Grade)  (conschie Ratio Apex Angle Hamispherical Ratio Diameter Convex sor Concave)  2:1   12'0' Concave    Partial 7   No of Course (Convex to Concave)				
Ilm	let, Outlet, Drami	No	or Size	Type		Willi	Itsk		Mair	Attached	
$\vdash$			See R	enarks	<del>                                     </del>						
L		<u>_</u>		<u></u>	<u> </u>	2 Other			Verached W	elded to	shell
11.	Supports: Skir	(Yes or	Lugs _	INo /	Legs	(No )	1704			[Where	str' store)
12.	Remarks: Man	ufacturer	's Partial Da	ta Reports pr	operly ide	ntified and signs	d by Commis	ssione Inspecto	rs have been fo	urnished for the	following items of
	thr eport:	Sez	artach	ed U4	<u>form</u>	For Item	L 10 I, Mfgr's, name and id	entifying stamp!			
			8123 F			- <u></u>					
						177-2000	1-1				
	<u> </u>	opane	Stora	ige Tan		TIFICATE OF	SHOP COMP	LIANCE			2000 - 100
-	We certify that	the state	ements made	in this repo	rt are corr	ect and that all	details of de	sign, material, c	onstruction, ar	nd workmanshis	of this vessel cun
	form to the ASI	ME Code	for Pressure	Vessels, Sect	ion VIII, l	Division 1. "U" ( Steel-I	Certificate of	Authorization I	40. <u>10,10</u> 0. عر	_expires	an 6 1986
_	Date_UCTDS	1 <u>67</u> 27	77.17. Ca. n	an.e Vaua		(Manufacturer) RTIFICATE OF	SHOP INSPE	CTION		(Representative)	e i
	Vessei construc	ted by 🕹	lada Ir	Ste	<u>el-Fl</u>	<u>o Div</u>	at_	<u> 100 Sto</u>			
	Alber	ta		•nd	employed	by Genera	il Sate	<u>ty Servi</u>	ces, bo	llers b	ranch
		the comp	orient descri	ned in this M	anufactur	er's Data Report	on_ OC 70	300 29	19	, and state	that, to the best of
		and heli	of the A t	ofactoria 13	construc	ted this pressure	e vessel in acc	Order owith A	SMC COOM, Se	isure vessel dasc	ision 1. By signing ribed in this Manu
	this certificate facturer's Data	Report.	ne inspector Furthermore	neither the	Inspector	nor his employ	er shall be li	able in an, man	ner for any po	ersonal injury o	r property dan agr
	or a loss of any	kind aris	ing from or	connected w	in Ais ins	petion.	. )				
1	Date O CYps	R29/	7 EY Signer	d/	1Aut	ionsen dispectors		Cammissic** —	Nat I Boar :	and endorsements St	ste Feire and No

# 77868 FORM U-4 MAINUFACTURER'S DATA REPORT SUPPLEMENT. ARY SHEET @ 157868 A quired by the Provisions of the ASME Code Hules, Section VIII, Division 1

2. Menufectured for C	ord Pr	oject	Ltd. 4	th Floor,	10201 S	outhport Rd.	S.V. Calg	ary, Alber
3. Location of installat	ion_Use	er-West	ern De	calta L.S.	D10-1	2-19-2-W5M	<u> </u>	
4 Type Horiz	ontal		1668	-201 A F10	(Nome and a	SFV 1666-201		1984
(Ha	rif, wert , lank, etc	.1	(Mfgr s se	rist No.1 (Ci	RN,	(Dwg)	(Nat') Sd. No.)	(Your build)
Date Report Item Number					Rema			
Purpose	No.	Diam Size	Туре	Material	Nom. Thk.	Reinforce Material	HOW Att.	Location
Inlet	$ \overline{1}$	2 "	RFWN	SA 106-B	. 343"	Weld Metal	Welded	Shc 11
Outlet		8 "	RFWN	SA 333-6	.500"	SA 516-70	Welded	
Vent	1	2"	RFWN	SA 106-B	.343"	Weld Letal	<u>Welded</u>	She11
Drain	_ <u> </u>	2"	KFWN	SA 106-B	.343"	Weld Metal	Welded	Shell _
Spare Bridle	<del>]</del>	2"	RFWN	SA 106-B	.343"	<u>Veld Metal</u>	Welded	Shell
P.S.V.	$\frac{2}{2}$	3" 4"	RFWN	SA 333-6	.437"	SA 516-70	Welded	Shell Shell
Temp. Conn.	2	10	RFWN CPLG	SA 106-B SA 105	.531 3000#	SA 516-70 Weld Metal	Welded Welded	Shell
Manway	一 <del>-</del>	20"	RFWN	SA 106-B	.500"	SA 516-70	Welded	
Dete OCTOSET			_ Co. name	Vada Ind	Steel-	lo Div Signed	X J	

### M U-2 MANUFACTURERS' PARTIAL DATA MEPORT

@157868

A part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

(a) f.ªenufacture (b) Maperacture	od by Hack Yn for Stee	il Flo V	171510N.	<u> </u>	UCO XI	UKULUKS	, Alberta	Lallauc	TOL1TO 1984
( 5905 ( Migs. )	er. No. of Pa	irt)	(CRN)	(Dwg	.)	(Nat'l B	d. No. of Part		(Year Built)
		Usebnow	Inc.			otion.			
(a) Drawing Pro (b) Description	of Part Insp	ectedT.W.O.	(2) pied	e nead c	<u>onstru</u>	CLION		APME Daile	d Qenesii en Vass
The chemical a	nd physical r	aroperties of	all parts ince	. the requirem	ients oi ma Contine M	erial specific	ations of the A	1984	r and Pressure Vess
Code, The cons	struction and							, 4.691	)
and Addenda ti				ude Case No.			<del></del>		
Special Service Postweld Heat	per UG-120	(d)	1125		97	 min			
Postweld Heat	Treatment:	Temperature	1169		ne	or shalls of	hare avahansa		
ns 7-12 incl. to									
Shell:Mat				(in.) Corr. Al				=	(over all) (ft. & in
Seams: Longitu	idinal	Welded Ohl	Snot Lan	R Butt)	.T	(Spot o	r Full)	Effici	ency
H.T. Temp									
							, Db1., Sng1., L	.ap,, Butt)	
R.T. (Spot, F	Partial, Or Fu	No. of	Courses					ile)	
Heads (a) Mate	rial	SA516-7	'.0			eria1	/Sne	c. No., Grad	(e)
	·	(Spec	. No., Grade	''			·		and the second control of the
Location (Top Bottom, Sada)	Minimum Thickness	Corresion Allowince	Crown Radius	Knuckle Badius	Elliptical Ratio	Conical Apex Angle	Heinispherical Radius	Fial Diameter	Side to Pressure (Convex or Concevi
กับ#3	1.198		127	24.35	2:1				
							l		
movsble, boit	i				forme.		No., Grade, Siz		
Type of Jack	ei	. 1		· !	f bar, give d	imensions		. 1	
Jacket Closui	(De	scribe as oge	e & weld, bar	etc \	,			域可基	
If bolted, des	cribe or sket	tch.							°F, Min, te
Constructed	for max. all.	wable worki	ng pressure			_ r s. at max.	cornura		
3				tic, prisumati	c, or combi	nation test h	ressure		
ns 13 and 14 to	1						344		ven
				Surject to pressure			CAPPA MA	TOP!	VAITER TWISE, Butted
	Floating Matt. I	Suec. No. Gradel	D	iam, (in.)		hk. (m.)	DATE	(in.) 2007	Alface
. Tubi⊷' Mate	rial	(Spec. N	o., Gr.)	O.D.		in, Non	nįnai Inicknes	5 <u></u>	_initor gauge
Number		т	ype	(Straight or			QUANTIT	YY	-
							oveh shihasa	্ৰ	<u>.</u>
ms 15-18 incl.		etea ror innei	г слатоы г ч		ninal Thick		THRICEin. Com	osion Allow	ance
. Shell: Mater		(Spes. No						IONS	
Diam	ft,	in, Leng	th1	lti			EXIENS		
i, Seams: Long	gitudinal	(Welded D	bi., Sngl., La	p. Butt)	R.T	(Spot	or Full)	 ः	ciency
H,T Temp.		F, Time					R.T. (Spot, Part	No. Euro	o, of Courses
	1		(Hr.)	(Welder		Material			
', Heads: (a) N	naterial	- (	Spec, No., G	rade)		101	(	3pec. Na., G	irade)
Location (Top Bottom, Ends)		Corresion Allowance	Crown Radius	Knyckie Radius	Eileptical Ratio	Conical Apex Angle	Hemispher-pal Fladius	Flat Diameter	Seje to Pressure (Convex or Concas
1	<del></del>	+							
_,	1	1							
a) b)			<del> </del>	1			-		

PURPOSE	NUMBER	DIAM. OR SIZE	TYPE	MATERIAL	NC MINAL	REINFORCEMENT MATERIAL	HOW
NLET, OUTLET, DRAIN)		OR SIZE			THICKNESS	mar Enine	State Assessment
	<del></del>			<u> </u>	,	- <del> </del>	
Bartierous Breedige en versions	<del>                                     </del>		<u> </u>				and the sample of the
Property of the Control of the Contr	<b>†</b>		<del> </del>				
is and the second	1						
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							greater parallel (1980)
. 30 No. 20							
l sa sua			<u> </u>				F-1557 Z1561
Inspection Openings:						C.	
Manholes No.	1	Size_		Location		A <sub>th</sub> sa	
Handholes No.		Size _		Location			<u> </u>
Threaded No		Size _				······································	
Supports: Skirt	Luys —	Legs .	(No.)	Other		(Describe)	Anna Jaga M
(Yes c	or mo)	,	(			•	
Attached				(Where and I	10%)		
	. 1 1/2	NOM 1 1	00 MTN				
86	10 T-115	NUM I.I	90 FIN	ELIP SA516	<u>-70</u>	<del></del>	
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<u>latinida, "</u>							
Barkin It was a second							
					W 1-21-21-21-21-21-21-21-21-21-21-21-21-21		
			100%	' Y Day	Code WÈ	TÝ/WETV	
Double !	Butt Wel	d	100%	X-Ray	Code WÊ	IX/WEIX	
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Double !		C	CERTIFIC	CATE OF COMP	LIANCE		
Double !	statements	C made in thi	CERTIFIC	CATE OF COMP	LIANCE	material, construct	on, and work
Double !  We certify that the manship of this vesse	statements	co the ASM	CERTIFIC is report E Code fo	CATE OF COMP are correct and to or Pressure Vesse	LIANCE	material, construct	on, and work
Double !  We certify that the manship of this vesse	statements	co the ASM	CERTIFIC is report E Code fo	CATE OF COMP are correct and to or Pressure Vesse	LIANCE	material, construction	on, and work
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Double !  We certify that the manship of this vesse    7-19-84  "U" Certificate of A    1, the undersigned, and/or the State or I    Manufacturer's Partibelief, the Manufacturer's lon VIII, Division By signing and certificate or I    By significate or I     By significate or I    By significate or I    By significate or I     By significate or I	statements of conformation of the conformation	made in thi to the ASM Hackney, n No. 11  CEF alid commis Texas Fort on constructed er the Insper	CERTIFIC is report E Code for Inc. (Manuface L,008  RTIF/CA ssion issu  July 1 this part actor nor artial Dat	CATE OF COMP  are correct and to resoure Vesse turer)  TE OF SHOP IN  ed by the Nation are have insign accordance to the semployer may a Report, Further	LIANCE that all details of ls, Section VIII is byexpire.  SPECTION  nal Board of Boiled employed by pected the part of 34, and state that with the ASME likes any warranty ermore, neither the state of the perton	material, construction of the construction of	on, and work  19.86  19.86  Inspecto  In laty Co.  Scribed in the  mowledge an  Vessel Cod  ed, concernice  Employer sha
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Double !  We certify that the manship of this vesse    7-19-84  "U" Certificate of A    1, the undersigned, and/or the State or I    Manufacturer's Partibelief, the Manufacturer's lon VIII, Division By signing and certificate or I    By significate or I     By significate or I    By significate or I    By significate or I     By significate or I	statements of conformation of the conformation	made in thi to the ASM Hackney, n No. 11  CEF alid commis Texas Fort on constructed er the Insper	CERTIFIC is report E Code for Inc. (Manuface L,008  RTIF/CA ssion issu  July 1 this part actor nor artial Dat	CATE OF COMP  are correct and to resoure Vesse turer)  TE OF SHOP IN  ed by the Nation are have insign accordance to the semployer may a Report, Further	LIANCE that all details of ls, Section VIII is byexpire.  SPECTION  nal Board of Boiled employed by pected the part of 34, and state that with the ASME likes any warranty ermore, neither the state of the perton	material, construction of the construction of	on, and work  19.86  19.86  Inspecto  Instruction  Instru

A157868

### ORM U-2 MANUFACTURERS' PARTIAL D

(A)157868 A part of a cressure Vessel Fabricated by One Menufacturer for Another Menufacture As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

(	CERTIFIE					<u> </u>	ماننده شد ماند در المستحدد			
		J. HA	CKNEY, I	NC. PO	BOX 938	NAVAS	ΟΤΑ, ΤΕΣ	AS 7786		
	Manufacture  Munufacture	ч <u></u> ст	EEL FLO	DIV VER	ITAS RES	OURCE S			35Ú OKO	TOKS ALB CAN
2	5922			NA NA	N13118	-02	NA (November	t, No. of Part		1984 (Year Built)
	2021	ir, iva, of Pi	HACKNE	Y, INC.	(IDW)	1.1	(1441 ) Est			
	Drawing Pres Description (		7		IECE CON	ST HEAD				
4. Th	e chemical an	d physical r	roperties of	gil parts mee	t the requiren	nents of mat	erial specific	ations of the a	ASME Boiler	and Pressure Vessel
Co	de. The const	ruction and	workmanshi	p conform to	ASME Rule	s, Section V	III, Division	1,	1983	Associated and the second seco
an	d Addenus th	rough		and C	ode Case No.				at a	
:	_	_ :	(Dato)							
	ecial Service postweld Heat T			1125	°F. Tin	ne 9	O MINUT	ES		
Items	7-12 incl. to l	resument. De complote	d for single v	vall vessels, j			or shells of I	heat exchange	rs	
7. Sh								(ft. & in.)	97.00	(over all) (ft, & in.)
٠.					(in.) Cor. A	1.T.	(Spot o		-	ncy%
	ii is: Langnia	1 1	Welded, Dbl		Butt)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Spot o	r Fuli)	, A.	
H.	T. Temp.	°F	. Time	(Hr.)	. Girth		(Welded,	. ∟bl., \$ngl., L	ap, Butt)	
R.	T			Courses						
9 H	(Spot, Pa ads (a) Mater	irtlai, Or Fu ial	SA516-			(b, Mate	erial	(506		
			(Spec	. No., Grade	·)	<del></del>	· · ·	(Spe	Grad	emes@dis.
· į	Location (Top Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Eriptical Ratio	Conical Apex Angle	Hernispherical Radius	Flat Diameter	Canvex or Conceves
(a)	110 #1	1.198		127	24.35	2:1				
(b)	<u> </u>				<u>                                     </u>		=			
If rem	novable, bolts	used (descr	ibe other fast	enings)		(Brist)	enal Sone N	io., Grade, Si	ze. No.)	
: :10 ::3	Tyne of Jacke	•								
	Jacket Closure									
		1	scriba as oge	e & Weld, Dai	, etc.,					
	If boited, desc Constructed for	11-		na pressure			pși at max.	temp		°F. Mir. temp.
16.	Constructed 10 (when less tha	n-20°F.)_		F. Hydrosta	tic, pneumati	c, or combin	nation test pi	ressure	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	psi.
Items	13 and 14 to	be comple	ted for tube s	ections						
13.	Tubesheets:s	tationery Matt.	(Spec. No., Grade	) Diam. (in.) (	Subject to pressure	Noin, F	hk. (m.)	Corr. Allow	(in.)	Attach (W-J., Bolted)
	-	Floating Mati. (	Spec. No. Gradel	<del>-</del>	iam. (in.)		nk. (in.)	Corr. Alto.		7
14.	Tubes: Materi	al			O.D.		in, Nom	in PTEKO	全1大E	n gauge
			(Spec, N	o., Gr.) ype				, , <b>\</b>	2% et	(:44:)
	Number				(Straight or	•		TET	MACHALE	
	s 15-18 incl. to		etad for inner						osic n Allow	W. in
15.	Shell: Mater'.	.1	(Spec. No	., Grade)	Nor	minai i mirki	1622 G	UANTITION!	<u> </u>	NV
	'Jiam	ft	in, Leng	th	ft		p	RICE		
16.	Seams: Longi	tudinal 💷	(Welded, D	bi., Sngi., La	p, Butt)	R.T	(5pot	or Full)		ciency?
	H.T. Temp		F. Time	(Hr.)	Girth - Walde	d Dbl. Spol	Lan But	XIENSINS)	IS No	o <del>l Gourses</del>
17	Heads: (a) Ma	stariat .		(Hr.)	(446106		Material		1999	
17.	DEBUS. (8) 14(		(	Spec, No., G	rade)			(	Spec. No., G	rade)
	Location (Top Bottom, Ends)	Minimum Thickness	Corresion Allowance	Crown Radius	Knuckie Radius	Elispt *41 Ratio	Apex Annia	Heisingherical Radios	Flat Diameter	Side to Press-
4.3	-		<del> </del>	<del> </del>	-		<del> </del>			
(b)	<del> </del> -	<u> </u>	<del> </del>	<del> </del>					1 - 10/200	
18.	Constructed	for max, ai	ov/able work	ing pressure	psi	at max, tem	r		Vlin, tempi. (v	when less than—20°F.
	°F.	Hydrostatic	, pneur.atic,	or combinat	ion test press	ure	.psi.			
		•	•							

TRI 437-A (R 12/81)

PURPOST NLET, OUTLET, DRAIN)	NUMBER	DIAM. OR SIZE	TYPE	MATERIAL	NOMINAL THICKNESS	REINFORCEMENT MATCRIAL	ATTACHE
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	_,					and a gradual of the second of	Annual Control of the
			· !				
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						The state of the s	
	ļ						
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Inspection Openings:		<b>A</b>		1	_		:
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7/25/04						ry Hou	ku
	Signed		(Manula	IC.	Oy	(Representative)	ARY HACK
"U" Certificate of A	uithorizatio	n No.	11,0		exp	res JUNE 30TH	<u>. 19 86</u>
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Items below to be completed for all vessels where applicable