FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

		/10	Required by	the Provision	ons of the	pletely Shop ASME Code	Rules, Section	n VIII. Divis	ion 1	(R) 4880 (3
1 Manufactured	and ce	rtified by NI	USCO SUPPLY	C& MANUFAC	TURING IN	C. 1604 - 8TH	STREET NIS	KII ALBERTA	CANADA	[9E 7S6
Manufactured	for <u></u>	łusky Oil Ope	erations Ltd.	707-8th Avenu		ry, Alberta T2F	1H5			
Location of ins	tallation	Husky Oi	Operations Lt	d. 12-27-49-	19 W5M	Name and address	of purchaser)			
4. Type: \	ertical	Separator	005740	1 200	14 00=	(Name and	address)			
	(Hociz o	r vert tank)	/Alforia and	rial No. 1	K-927		D1227-200		-	
 The chemical a VESSEL CODE 	nd phy . The d	sical properties esign, construc	of all parts meet	the requirements	af	ecifications of the Section VIII, Divi	ASME BOILER A	no.) ND PRESSURE		(Year be
						Section VIII, DIVI	sion i		2001 Year	
to		- Addenda (Date)								
S. Shell:	SA	-106-B	•	1.031"	Cod	e Case Nos.			ecial Service per	UG 120(d)
	Mati. (Sp	ec No., Grade)	No.	om. Thk. (in.)		0.0625" Corr. Allow. (in.)	Die	16" OD am. I.D. (ft. & in.)		6' - 6"
. Seams:	Type g. (Weld		Seamless	100%		•	Type-		* Spot	ngth (overall) (ft. & in.)
S	ngi., Lap		R.T. (Spot or Full)	Eff. (%)	H.T. Temp (F)	Time (hr)	Girth (Welded		R.T. (Spot, Partial	. No. of Course
. Heads: (a) Mati			SA-516	5-70N		(b) Matt.	Sngl., Lap, E		or Full) -516-70N	
Location (1	on I	Minimum	(Spec No.						-010-7UN : No., Grade)	
Bottom, Er		Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical	Conical	Hemispherical	Flat	Side to Pressure
(a) TOP		0.813"	0.0625"	-	- Nadius	2:1	Apex Angle	Radius	Diameter	(Convex or Concave
(b) BOTTO		0.813"	0.0625"	-		2:1	1	-	 	Concave
If removable, bol	s usea	(describe other	fastenings)						<u> </u>	Concave
MAWP			1440				tt., Spec. No., Gr., Si	ze, No.)		
Min. design meta	temo		1440	AF .		psi at max. ter			100°	
. Nozzles, inspect		safety valve or	-20	°F at	1440	psi. Hydi	O., preul , ancomb	# test pressure	2	160 p
Purpose	1	Diam.	Jennigs.							
Inlet, Outlet, Drain)	No.	or Size	Type	Matl.		Nom. Thk.	Reinforceme Matl.	ent	How	
N1 Inlet Gas Outlet	1	3"	600# RFWN	SA-105N / S		XXH	N/A		Attached UW-16.1(c)	Location Shell
Outlet (HCL)	1	3" 1"	600# RFWN	SA-105N / S		XXH	N/A		JW-16.1(c)	Top Head
2 Water Outlet	1	1"	TOL TOL	SA-105		3000#	N/A		JW-16.1(a)	Shell
C3 Drain	1		3000# CPLG	SA-105 SA-106		3000#	N/A		JW-16.1(a)	Shell
C4 LC (HCL)	1	2"	TOL	SA-105		SCH 160 3000#	N/A		JW-16,1(c)	Btm Head
5 LC (Water)	1	2"	TOL	SA-105		3000#	N/A N/A		JW-16.1(a)	Shell
EE U4 FORM		<u> </u>	•	-		-	19/4		JW-16.1(a)	Shell
Supports: Skirt			ugs	Legs	-	Other .	_	Attach		<u> </u>
		or no)	(No.)		(No.)		(Describe)			to Bottom Head (Where and how)
Remarks: Manufa	cturer's	Partial Data Re	eports properly ide	entified and signe	d by Commiss	ioned Inspectors	have been furnishe	ed for the following	ng items of the	report: _
				(Name of part, iter	n number. Mfgr':	name and identifying	ng stamp)			
onstruction Draviadiography - as	ner I	0. D1317-200	Rev.0		-Vessel i	s Impact Test E	xempt per UG-	20(f) & UCS-6	6(a)	
istomers respon	sibility	to install ade	onuate pressure	a relief value	-Hydrotes	sted Vertically				
		15 1101011 000				7.5 Cu. Ft.				
We certify the	at the et	atomonto		CERTIFICATE	OF SHOP /	FIELD COMPL	LIANCE			
ASME Code	for Pres	sure Vessels.	e in this report are Section VIII Divis	correct and that a control of the co	all details of de	esign, material, co	enstruction, and wo	orkmanship of thi	s vessel confor	m to the
Date 111 9							24,778	expires _	March 27,	
2000 TE	200	.)L. Co. Name	NUSCO SUPI	PLY & MANUE	ACTURING	INC Sig	ned Life	alX/ort	۵.,	
				(manada)	161)			/ (Rebres	sentative)	
Vessel constructe	d by	NUSCO SUI	DDI V 2 MAANU	CERTIFICATE	OF SHOP /	FIELD INSPE				
I, the undersigned		a valid commi	ission issued by T	FACTURING II	NC. at	1604 - 8TH S	STREET NISK	U. ALBERTA	CANADA T	9E 7S6 .
			<i>↓ y</i>		o or boller and Alberta	Pressure Vessel Boilers Safety A	inspectors and the	e State or Provin		
he component de	scribed.	in this Manufac	turer's Data Repo	ort on	0 0 00	200		to the best of my		ave inspected
Manufacturer has	construc	ted this pressu	re vessel in acco	rdance with ACM	Colda SC-AN	الرائية				i
nspector nor his e	7711	7	" a sy manner to	any personal inju	iry or property	damage or a loss	of any kind arising	g from or connec	ted with this ins	spection
0018 11 4 0		Signed	1110	emy		Commissions	AB *	132		
			(Aul	horized Inspector)			(Nat'l Board	(inci endorsemen	ts) State Prov an	nd No)

FORM U-4 MANUFACTURER'S DA As Required by the Provisions of the

Manufactured			perations Ltd.	707-8th Avenue S	W Calgary, Albe
Location of ins	tallati	on <u>Husky</u>	Oil Operations	Ltd. 12-27-	49-19 W5M
4. Type:			Vertical		
		oriz., vert., c	or sphere)		(tank, sepa
	K	-9276.23			D1227-20
Nozzles, inspection	n, and	(CRN) safety valve	e openings:		(drawii
Purpose (Inlet,	T	Diameter	Flange		Material
Outlet, Drain, etc.) C6 A/B LG (HCL)	NO. 2	or Size	Type	Nozzle	Flan
C7 A/B LG (Water)	2	3/4"	TOL	SA-105N	
C8 PI	1	1/2"	TOL TOL	SA-105N	-
C9 TI	1	3/4*	TOL	SA-105N	 :
C10 PSHL	1	1.	TOL	SA-105N SA-105N	
C11 HLSD	1	2.	TOL	SA-105N SA-105N	
C12 PSV	1	1.	TOL	SA-105N	-
C13 A Inspection	1	2*	TOL	SA-105N	
C13 B Inspection	1	1 1/2*	TOL	SA-105N	
		-		-	1
		-	-	•	_
	-			<u>-</u>	
				-	
Data Report Item Number	- 1		-	- - ng No: D1317-200 F	
- Data Report	- 1		-	-	
- Data Report			-	-	

(Authorized Inspector)

MENTARY SHEET ection VIII, Division 1

	0057 (mfg's :	740-200 serial no.)	
			2002
(Nat'l. Bd. no	o.)	(y	ear built)
einforcement	How A	ttached	Location
Material -	Nozzle UW-16.1a	Flange	(Insp. Ope
	UW-16.1a	 	Shell
	UW-16.1a	-	Shell
	UW-16.1a		Shell
	UW-16.1a	<u> </u>	Shell
<u> </u>		<u> </u>	Shell
	UW-16.1a : UW-16.1a		Shell
 	UW-16.1a UW-16.1a		Shell
			Shell
	UW-16.1a		Top Head
-	 		
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-			· · ·
, M.	ajich 27		2005

Gentification: Control Control	
MINK PRESS MEINT TEMP	
N. R.T. EERIAL. SERIAL	PRESS. INEAD INEAD ORTHU

		CERTI	FIED BY		
	, N	ONUS ISKU, ALBERTA, C	SCO CANADA		
W RT-2	MAX. ALLOW WORK. PRESS.	1440 PS	AT	100	° F
	MIN. DESIGN METAL TEMP.	-20 °F	AT	1440	PSI
SERIAL NO.	005740-200	YE	AR BUILT	2002	
DESIGN PRESS. 144	O PSI AT	100 °F	CORR ALLOW	0.0625	IN.
992	9 KPA AT	38 ℃	CORR ALLOW	1.59	ММ.
HEAD MTRL. S.	A-516-70N	THK.	0.813 IN.	20.65	мм.
SHELL MTRL.	SA-106-B	THK.	1.031 IN.	26.19	мм.
CRN. K	-9276.23				

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

. Location of inst				07-8th Avenue SW Co	(nam		ss of purchas	er) (A)	488	10	2
							e and addres	s)		•	
. Type:		100 7.00	Vertical		Separa				00574		
		oriz., vert., o	r sphere)		(tank, separator, he)		(mfg's se	10.10 m. 50 p. 60 m. 1	
		9276.23 (CRN)		-5	D1227-200 Rev.(1	_	W			2002
ozzles, inspection			onenings:		(drawing no.)			(Natī. Bd. no	.)	(Ne	ear built)
Purpose (Inlet,	, 0.10	Diameter			04.4	I was a second			T 6		
Dutlet, Drain, etc.)	No.	or Size	Flange Type	Mate Nozzle	Flange	Nozzle Nom.	Thickness Corr.	Reinforcement Material	How At Nozzle	Flange	Location (Insp. Open.)
C6 A/B LG (HCL)	2	3/4*	TOL	SA-105N	1,10,140	3000#	0.0625*	Meterie:	UW-16.1a	riange	Shell
7 A/B LG (Water)	2	3/4"	TOL	SA-105N	94	3000#	0.0625*		UW-16.1a	8	Shell
C8 PI	1	1/2*	TOL	SA-105N		3000#	0.0625*	14	UW-16.1a		Shell
C9 TI	1	3/4"	TOL	SA-105N		3000#	0.0625*	S+	UW-16.1a		Shell
C10 PSHL	1	1"	TOL	SA-105N		3000#	0.0625*		UW-16.1a		Shell
C11 HLSD	1	2*	TOL	SA-105N	-	3000#	0.0625*		UW-16.1a		Shell
C12 PSV	1	1"	TOL	SA-105N	4	3000#	0.0625"		UW-16.1a		Shell
13 A Inspection	-	2*	TOL	SA-105N	4	3000#	0.0625*		UW-16.1a		Shell
13 B Inspection	1	1 1/2"	TOL	SA-105N		3000#	0.0625*	14	UW-16.1a	2	Top Head
					4	-	-		*		
	-	-							-	+	
2.40	-					-			-		
		-		-				- 2		-	
					-			2			
Data Repo Item Numb	rt er	Con		ng No: D1317-200 Re		F	Remarks				
- Data Repo	rt										
- Data Repo	rt										