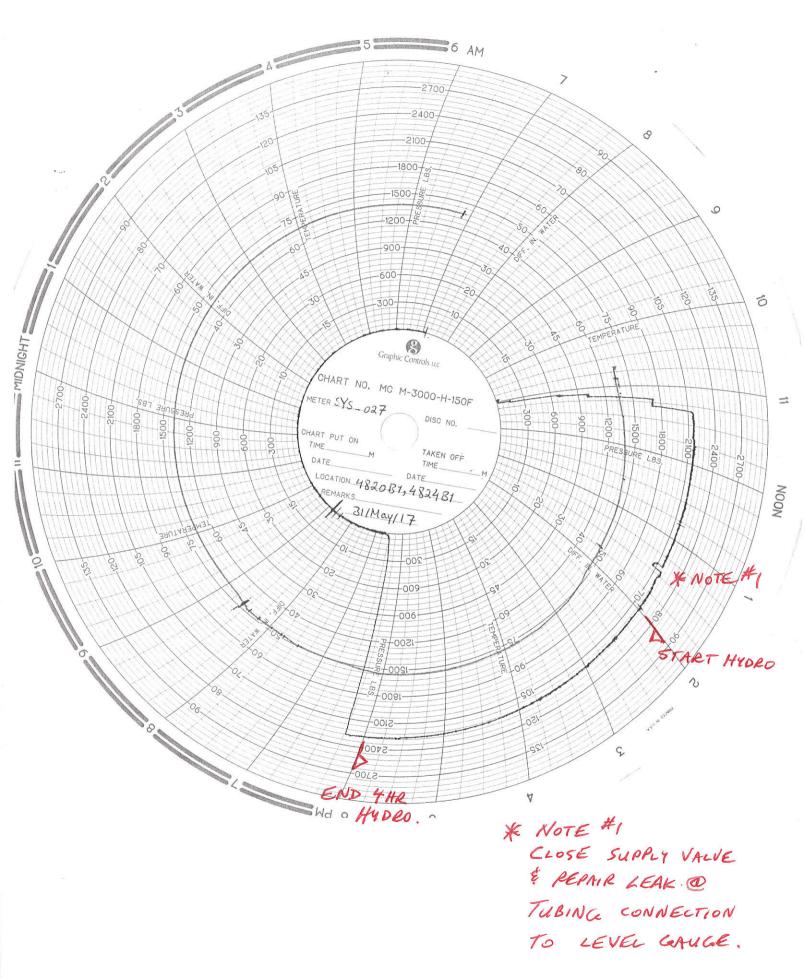


PLAINS OIL LTD.

TEST REPORT

		LEAK	AIR	BURST
	POL Job No.: 4820	Serial No.:	: 4820-B1	
	Description: Inlet Vertical Separator	r Design Pre	essure: 1440 psi	
	Test Pressure: 2160 psi	Gauge #(s)	: D43, D4	4
	Chart recorder #:Scanner 2000 R GAUGE USED FOR CALE G: #2 CALIBRA	IBRATION	OF TEST G	AUGES/RECORDER
4	Drawing #(s) & Number of pi			
			A Projection of	
	P.O.L. Q.C.M / Q.C.I	Harin	Da	ite: <u>05/31/2</u> 017
	Authorized Inspector:		Da	ate:
	Inspector for: Suffec	- LTPT	2)	
	Signature:		Da	ite: 05/31/2019
	Inspector for:			
	Signature:		D	ate:
	Inspector for:			
	Signature:		D	ate:

S:\PlainsFab Shared\QC(DR.TS.etc)\4800\4820-B1 TS.doc



2015 Section VIII - Division 1

Order XG-N081-007-2017 Application for Leave to Open

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

		AS	Keq	uirea by	tne Pro	ovision	IS OT	tne /	ASME B	olle	r and P	ressu	ire Ve	ssel	Code I	Rules,	Section \	VIII, Di	ivisio	n 1	
1. =	Manufa	acture	d and	certified b	y =		F	Plain	s Oil Ltd	. 87	00 Vent	ture A	venue	S.E.	., Calga	ry, Albe	erta, Can	ada T3	3S 0A	2	
2	Manufa	acture	d for	Tr	ansCan	ada Pi	peline	e Ltd.	450 - 1	Stre	et SW	Calga		erta	. Canad		5H1				
3.	Locatio	on of in	nstalla	tion					Tony C	reek		ceipt I		Statio	on LSD	: 13-3-6	2-21 W5	М			
4.	Type:		Verti	cal		48 (Manufactur	20-B	1		Y	4316.2		(500)		•	r.3		N/	/A	:	2017
5.	ASME			ertical tank) on VIII, Di				- 2	2015		(CRN)			(D N.1)rawing numb 1 / A	er)		(National E	Board No.)	/A	rear built)
6.	Shell:			SA516-7			Edition	& Adden	da, if applicabl	e (Date	.063"		(C	ode Čas	se Numbers)		_	Spec	cial Service	per UG-120(d)
Ŭ.	0.10	*****		erial Spec, num			(Nomin		ness) (in.)	_	(Corr. allow.)		_	Inne	2'-0" [er diameter (f	l. & in.)			Length (ov	S" S/S rerall) (ft. & in.)
										Bod	y Flanges or	n Shells									
	No.	Ту	pa	ΙĎ		ac	Flange	Thk	Min Hub T	hk	Material	How A	Attached	Loc	sation	Num & Siz	e Bolting M	Bolt late⊓al W	ung Vasher (O£), ID, Thk) V	Vasher Material
+												-		-						911	
					- Ų I	, Pa	+	,		\exists											
							_						1								
7.	Seams	s:	ong (Wal	Type 1	I no Butt L	F	ull		100% Eff. (%)	_	N/A H.T.temp	!	N/A me (hr)	Cal	Тур	e 1	outt) R.T.(Si	ull	10	00%	1
8.	Heads				Lap, butt)				EII. (76)					Girth	ı, (welded, db	i, sngi, tap,				f. (%)	No. of Courses
0.	ricaus	.(a) IV	nateria	3100	or Sh		1516-				'	(D) IVIS	aterial _					6-70N o., grade)			
	Locati	ion (Top	, Bottom		Minimum	Corre			Crown		nuckle		Elliptical		Con		Hemispheric		lat		Pressure
(a)		` '	qo		.943"	Allow			Radius	F	Radius		Ratio 2:1	-	Apex	Angle	Radius	Dia	meter		r Concave)
(b)			ttom		.943"	.06		+					2:1					+			cave
											4. 61	- 11								001	ouve
	1.0	cation		T	ID		OD		FI TEL		dy Flanges o								lting		
(a)	1.0	cation		Туре	10		OD		Flange Thi	`	Materi	al .	Ho	w Attac	ched	Num & Si	te Bolting N	Aaterial V	Vasher (Ol	D, ID, Thk)	Washer Material
(b)																					
9.	MAW	P	14	40 psig			(Exter	rnal)			at max. 1	temp.	_		129	°F			(Externa		_
(Min. o	design	meta	temp.	-	49 °F	(LAIOI	at	t	1	440 psi	g	H	ydro.			test pres	sure	**2	") 160 psid	a
	Proof	Test		-	I/A			_													
40					· · · · · · · · · · · · · · · · · · ·		-														
10.	Purpos		<u> </u>	on, and sa Diamete	_		ngs:		Ma	teria	1			Jozzl	e Thk.	Poi	nforcement	Attac	hmeni	Details	
(Inle	t, Outlet,		No.	or Size		Туре		No	ozzle	T	Flange	e	Non	_	Corr.		Material	No		Flg.	Location
	nlet/Out	let	2	NPS 10	CL60	00 RFHB	-		LF2 CL1				2.72	Н	.063"		N/A	UW16	5.1(d)	N/A	Shell
<u> </u>	Drain		1	NPS 2		00 RFWN	_	A333-		SA	350-LF2	CL1	.344	_	.063"		N/A	UW16		Type 1	Shell
	Inspection Vent	on	1	NPS 2 NPS 1		000 HCLF			LF2 CL1 LF2 CL1	+			CL60		.063"	-	N/A N/A	UW16		N/A N/A	Shell Head
	LSHH		1	NPS 2		000 HCPI			LF2 CL1	+			CL60		.063"		N/A	UW16		N/A	Shell
L	evel Gau	uge	2	NPS 3/4	CL60	000 FCPL	.G S	A350-	LF2 CL1				CL60	00	.063"	\top	N/A	UW16		N/A	Shell
<u> </u>										\perp		-									
<u> </u>			-	ļ	_					+			- 14	_							
L													l					L			
11.	Suppo	rts: S	kirt	Yes (Yes or no)	Lugs	(Number)	Leg	s (Ot	ther		N (Dos	/A		A	ttached			Ided to	head	
12.	Rema items	rks:M of the	anufa report	cturer's F	artial D	ata Re	ports	ргоре						miss	sioned I	nspecto	rs have b	een fu	rnishe	d for the	following
				14/1					_	(Na	ame of part, it	em numbe	er, Manufac	turer's n	ame and ider	ntifying stamp)				
	Cove	rs, S	tuds	& Nuts	: *Co	vers fo	or C	1 A /I	3 are S	A3	50-LF	2 CI	1 CI	.600	00 NP7	Γ hex	olugs				
				ılet Vei							graphy						Service:	Swe	et		
	Volu										By own			7 12	5(g)			++ ++	<u> </u>		
				drawing	(s)· 49	320-R	501	r.3				P		<u>ک د پ</u>	- 151						
								_	& cha	11e i	impact	t test	ed to	15f	t_lhe a	t _4001	F. Pipe	and f	lanos	oc gro	
				CS-66(s		mpa	- LU, 1	ioau	. a. 3110	113	mpac	i iost	<u> </u>	171	1-103 a	・ → フ .	I Ipe	unu I	iange	o alt	
	OACIII	pr po	or O(00-00()	<i>-1</i> -																

**Note: Vessel hydro tested in the horizontal position.

2015 Section VIII - Division 1

Form U-1A (Back)

		CE	RTIFICATE OF SHOP/FIELD C	OMPLIANCE	
We certify to the ASN expires	ME BOILER AND PRI	nade in this report are o ESSURE VESSEL Cod per 10, 2018		gn, material, constructio J" Certificate of Authoriz	n, and workmanship of this vessel conformation No. 34,219
Date	05/31/17	Co. name	Plains Oil Ltd.	Signed	Interesterey (Representative)
	nstructed bydersigned, holding	Plains Oil Ltd a valid commission		Venture Avenue S.E.	Calgary, Alberta, Canada, T3S 0A2 ure Vessel Inspectors and employed by
state that, to Section VI vessel de	to the best of my knowle III Division 1. By signi escribed in this Manu	described in this Manudge and belief, the Manufang this certificate neither after the lacturer's Data Report	facturer's Data Report on cturer has constructed this pressure the Inspector nor his/her employ	June ol, vessel in accordance with A er makes any warranty, e pector nor his/her emp	, and SME BOILER AND PRESSURE VESSEL CODE, expressed or implied, concerning the pressure loyer shall be liable in any manner for any
Date J	une 01, 2017	Signed Nil	Mauthorized Inspector)	Commissions	B 242 NB 12860 A, B



9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4 Tel: (780) 437-9100 / Fax: (780) 437-7787

May 24, 2017

Attention: Rob Mayhew

PLAINS OIL LTD

8700 VENTURE AVENUE SE

ATTN ROD HARAGA

CALGARY, AB T3S 0A2

Email: Rob. Mayhew@plainsfabrication.com

The design submission, tracking number 2017-02617, originally received on May 02, 2017 was surveyed and accepted for registration as follows:

CRN:

Y4316.2

Accepted on: May 24, 2017

Reg Type:

New Design

Drawing No.: 4820-B501 Rev 3 As Noted

Description

MAWP

Design Temperature

MDMT

Internal Pressure

9930kPa

54 °C

-45 °C

The registration is conditional on your compliance with the following notes:

- The sight glass and insulation valves are not in the scope of this registration.
- The holes in the shell for connections C1 & C3 (2" 6000 HCPLG) shall be the maximum diameter of 2.25".

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3382 or fax (780) 437-7787 or e-mail stojanovic@absa.ca.

Sincerely,

STOJANOVIC, STEVAN, P. Eng.

SCO Cert. No. D00008849



CERTIFIED BY
PLAINS OIL LTD.
CALGARY, ALBERTA, CANADA
MAWP
(ASM) 1440 PS1 AT 129 °F 9930 KPA AT 54 °C
PSI AT SE KPA AT SC
RIT MDMT
-49°F AT 1440 PSI -45 °C AT 9930 KPA
3/N 4820-B1 YEAR BUILT 2017
TYPE INLETSEPARATOR CA .063 IN 1.6 MM
(A)667858 CRN Y4316,2
FLOW DIRECTION ->
MODEL#: VLS-10-18471
TAG#: M.000378/V-1



Company:

Static Range:

Serial Number: SYS-027
Master Calibration Device:

Temp Range: 0 to 150

Ambient State: Temperature:

3,000

Plains Fabrication



INSTRUMENTATION INC.

#3, 4351 104 Ave. SE Calgary, AB T2C 5C6 PH: 403-291-3535 Fax: 403-291-3585 www.systechinst.com

Instrument Certificate of Accuracy

				Report No).:
on		Date:	May 31, 2017		
	Model Number:	242	Service Order:	IR20194	
Chandler	Serial Number:	10489	PO No:		_
21°C	Humidity:	20%	Job No.:	4820	
Press Units:	Psi		Technician:	Mike Bond	

Accuracy

Static Pressure						
Reference	Target Found	Target Left				
0	Rental	Pass				
600	Rental	Pass				
1,200	Rental	Pass				
1,800	Rental	Pass				
2,400	Rental	Pass				
3,000	Rental	Pass				
	1					

Temp Units:

Temperature Verification							
Reference	Target Found	Target Left					
32.0	Rental	Pass					
70.0	Rental	Pass					
140.0	Rental	Pass					
		·					

Chart D Electron Battery	nic 🗹		
Valves: OK ☑]	N/A	
Pens: OK		ADJ	
ARC: OK]	ADJ	
Tension OK	<u> </u>	ADJ	
Hose OK		N/A	

±1%

Reference Standards are traceable to the National Institute of Standards Certified at preset intervals Chandler Deadweight Tester Serial #10489 traceable to NIST File 836/8366608, 78011

<u>Comments:</u>	OSI AVIII.
	542

Verification performed by

Mike Bond

Verification Certified by

Darrell Mohn