FORM U-TA MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

A# 4570-01 S/N#

(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 1

@ 669163

1.	Manufacture	d and c	ertifie	ed by Co	oral Oi	Ifield S	ervice	s Inc., 1	5303-94s				-	and the same of the same	and the second	CANAD	Α			
2.	Manufactured	d for I	Halte	c Testin	g Inc.,	Box 92	2, Bayt	ree, Alb			anad	a	ess of M		cturer)		/501) - (3.7)	CONTRACTOR OF THE PARTY OF THE	24	l ydes alle o molec
3.	Location of Ir	nstallati	ion \$	stock, Ba	ytree,	Albert	a		(1	varrie ar	iu adui	C35 U	i rui Gila	301)						
	Но	orizont eparate	tal or		457	0-01 r's serial nu	0	VS	366.213 (CRN)	and sec	Name		ddress) 3968 R Drawing n				Nationa	59 al Board number)	Krosi	2017 (Year built)
5.	ASME Code	, Section	on VI	II, Division			2015				10. 1	N/A				102,	/O	N/A	400(4))	م الدارات
						Edition and		, if applicabl	The House		(Code	Case	numbers)				(Specia	al service per UG	and it	
6.	Shell:			6-70N number, grad	e)	(Nom	0.5" ninal thickn	ness)	(Co	.125" orr. allow.)				108" nner dia	(ID) ameter)		ols Ir	30' [Length (c	and the second second second	
	T	VIII (28)		b 9	Flange	70 130		Territor	Body Flan	Ho		nois			5 117	- 12 design		lting	BRUP	10913
No.	Hri v bi	an) wa.	ID	OD	Thk	IVIII CI	ub Thk	1	terial	Attac	hed	len	ation	16, 10	n & Size	Boltin Materi	al	Washer (OD, thk)	ol mil	Washer Material
N/A	N/A	N/A	Α	N/A	N/A	N/A		N/A		N/A		N/A	_	N/A		N/A		N/A	N/A	Dager S
	t to see the second			1 sngl., lap, but	it)] [F	Full I.T.(spot or		1.00 (Eff.,%)	1125 °F (H.T. temp)		Hour ne, hr)		and the	Typ led, dbl	e 1 ., sngl., lap, b	Affa E		t or full)] (E	.00 ff., %)	3 (No. of course
30.0	(a) I	viateria	173				516-70 c. no., grad				(D) IV	aterr	ai ——	-		SA (Sp	1-516 ec. no.,	grade)		news.
	Location (Top, Ends)			Minimum Thickness	8000	orrosion owance	Crow	n Radius	Knuckle Ra	adius El	liptical	Ratio	Conical Angl		Hemispher Radius			Side to Pres Co	sure (Co ncave)	nvex or
(a)				0.5"		.125"		WA.	N/A		2:1		N/A	_	N/A	N/A		Co	ncave	
(b)	END			0.5"	0	.125"	1	WA_	N/A		2:1		N/A	١	N/A	N/A	A	Со	ncave	
									Body Flan	ges on l	Heads			_			Bo	elting		
	Location	Тур	е	ID	OD	Flan	ge Thk	Min Hub Thk	Mat	erial	Но	w Atta	ached	Νι	ım & Size	Bolting		Macher (OI	O, Wash	er Material
(a)		N/A		N/A	N/A	N/A		N/A	N/A	at ma	N/A					N/A		N/A	N/A	
9.	l. P		125 p				(Ex	ternal)		at IIIc	ax. ten	np.			00 °F nternal)		-	(External)		
Ν	Min. design m	etal te	mp.	-50 °	F	at		125 psi	·	1	Hydro	, pne	u., or co	omb.	test press	sure		HYDRO at	163 ps	si .
F	Proof test										N/A									
10. N	Nozzles, inspe	ection a	and s	afety valv	e oper	ings:														
Pur	pose (Inlet, Out	tlet,	No.	Diameter	or	Туре			terial		Nozzle				forcement			nt Details		on (Insp.
	Drain, etc.) Bas Inlet/Outle		5	Size	-	RFWN	_	ozzle 106Gr.B	Flang SA-10	_	Nom.	_	Corr. 125"	IV	N/A	UW16.	_	Flange Type 1		nen.)
	/,Water/Oil Ou		4	3"		RFWN		106Gr.B	SA-10		0.600		125"		N/A	UW16.		Type 1		I/Head
	arge,Heater C		8	2"	_	RFWN		106Gr.B	SA-10		0.436	_	125"		N/A	UW16.	1 /	Type 1		ead
	<i>litional Nozzles</i> Supports: Sl	kirt	No (Yes or	Lug		2 mber)	Legs	No (Number)	Other				Idles (2)			Attached		The second secon	Welded and how)	
12 R	Remarks: Manufa		#0000000000000000000000000000000000000		2.822.000	10 17 18 18 18	ified and		Commission	ed Inspe	ctors h		1942 - 1945 - 194	shed fo	or the follow	ing items (of the r	1000000000	and now)	
	WA	acturers	i aruc	ar Data Nep	orto prop	criy ident	ilieu ariu	aigned by	00111111331011	cu mope		ave be	cen rums	oneu it	or the follow	ing items (or the r	срог .		
							************	ne • cos / / cos / cos	number, Manu					mp)						
	-Impact T													meta	al ,and	Fig U	CS-6	6, Note C		
	for stud	and :	nuts	5_		***************************************													-	
	-Heater of Flange				o⊤ (350F	MAEV	VP 1251	SI,MDMI	-50E	· @ 1	.502	SI,	C.A	1/16,2	150	KL SC	SA-1U5N	-	
	2" NPS XI- -Vessel C				3 (60	M31														
	-Construc	ction	DWG	NO. 3	968-0	1 Rev														
A	-1 1/8" ∑	K 6 1.	e Atta	Studs :	SA-19	3-B7M	c/w 2	2 Nuts	Each SA	194-2	HM f	or	both 1	M1 A	MIB					

B669163

FORM U-1A (Back)

NB Number 59

We certify that the st conform to the ASM	atements made in BOILER AND PR	CERTIFICATE OF SHOP/FIELD CO this report are correct and that all deta ESSURE VESSEL CODE, Section VII	ils of design, material, co	onstruction, and ate of Authoriza	workmanship of this vess tion Number 45860	el
expires Se	ptember 17, 2019				•	
Date 09/25/2017	Co. name	Coral Cilfield Services I	nc.	_Signed	D-	
		(Manufacturer)			(Representative)	
-		CERTIFICATE OF SHOP/F	IELD INSPECTION			
Vessel constructed b	<i>,</i>	Coral Oilfield Services Inc. mission issued by The National Board	at 15303-94st, Grande Pra			
Alberta Boilers Safety As	-	•			o and omproyed by	
have inspected the cand state that, to the AND PRESSURE VE warranty, expressed	omponent describe best of my knowle ESSEL CODE, Sec or implied, concer	ed in this Manufacturer's Data Report of dge and belief, the Manufacturer has detion VIII, Division 1. By signing this centring the pressure vessel described in the pressure for any personal injury or programmer for any personal injury or programmer.	constructed this pressure ertificate neither the Inspe this Manufacturer's Data	e vessel in accor ector nor his/her Report. Furthe	r employer makes any rmore, neither the Inspect	or
Date09/25/2	017 Signed_	(Authorized Inspector)	Commissions		6, AB439-A I (incl. endorsements)]	
2862423	exe: v6.2.165				Form and version: \(\text{\colonial}\)	U1A-18

A69163

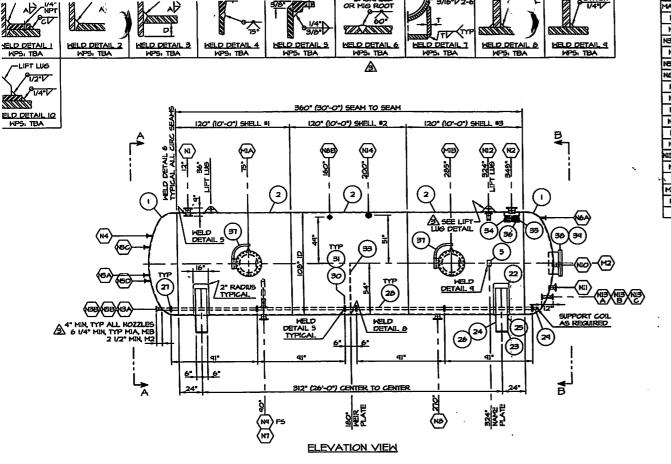
		FORM U-1A (Back)		<u></u>	NB Number 59							
conform to the ASM	CERTIFICATE OF SHOP/FIELD COMPLIANCE We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 45860 expires September 17, 2019											
Date 09/25/2017	Co. name	Coral Oilfield Services Inc		Signed (Representa	ative)							
		CERTIFICATE OF SHOP/FIE	LD INSPECTION									
Alberta Boilers Safety A have inspected the and state that, to the AND PRESSURE V	holding a valid co ssociation (ABSA), o component desc e best of my know /ESSEL CODE, S	emmission issued by The National Board of a fedmonton, AB ribed in this Manufacturer's Data Report on wledge and belief, the Manufacturer has consection VIII, Division 1. By signing this cert berning the pressure vessel described in this nany manner for any personal injury or pro-	September 21, 20 Septem	17_, e vessel in accordance with ASI ector nor his/her employer mak Report. Furthermore, neither t s of any kind arising from or cor	ME BOILER tes any the Inspector							
Date09/25/	2017 Signe	ed Co	ommissions	15266, AB439-A [National Board (Incl. endorsements)]								
				Form &	nd version: U1A-18							

2862423

exe; v6.2.165

Manufactured and	d certifi	^{ed by} Coral	Oilfield Se	ervices Inc., 1	303-94st, Gr	ande Pra	irie, Alb	erta, T8X 0L2, (CANADA		
						(Name and a	address of M	lanufacturer)			
2. Ifactured for	Halte	ec Testing In	c., Box 92	, Baytree, Albe							
					(Name	and address	of Purchase	er)			
3. Location of install	lation	stock, Bayt	ree, Alber	ta		/Nome	and address				
						(IName a	and address	,			
		Separator			N/A				4570		
(Honz	ontal, ver	tical, or sphere)		(≀ank, sepa	rator, heat exch., et	C.)			(Manufacturer's s	seriai number)	
V936	66.213			3968 Rev.				59			2017
•	RN)			(Drawing numb	er)			(National Board nu	mber)		(Year built)
Data Renort											
Data Report Item Number			Rer	marks							
Item Number	L50 B	linds SA-10		marks							
Item Number Iditional Remarks: 2-20" Class 1	Γ	Linds SA-10	05N		erial	Nozzie T	'hickness	Reinforcement	Attachme	nt Details	Location (Ins
Item Number	L50 B:				erial Flange	Nozzie T Nom.	hickness Corr.	Reinforcement Material	Attachme Nozzle	nt Details	Location (Ins Open.)
Item Number Iditional Remarks: 2-20" Class 1 Purpose (Inlet, Outlet,	No.	Diameter or	05N	Mal							

Certificate of Authorization	n: Type	<u>"U"</u> No. <u>458</u> 6	860	Expires September 17, 2019	
Date <u>09/25/2017</u> N	lame	Coral Oilfield Services Inc.		- Signed	
		(Manufacturer)		(Representative)	
Date <u>09/25/2017</u> N	lame	Ex	Commissions:	15266, AB439-A	
		(Authorized Inspector)		[National Board (incl. endorsements)]	



GENERAL NOTES

DESIGN & FABRICATE TO: ASME SECTION VIII, DIVISION I. 2010 EDITION, 2011 ADDENDA

MAXIMUM ALLOWABLE WORKING PRESSURE INTERNAL MANPI 150 PSIG EXTERNAL MANPI 125 PSIG

COIL DESIGN NOTES

DESIGN TEMPERATURE, 850° F

A MINIMUM DESIGN METAL TEMPERATURE (MDMT), -50° F AT 150 PSIG

MINIMUM DESIGN METAL TEMPERATURE (MDMT), -50° F AT 150 PSIG

RADIOGRAPHY, NOKE PER UA-IIC PWHT PER UCS-36, NOT REQUIRED HYDROSTATIC TEST PRESSURE, 143 PSIG MINIMUM

CORROSION ALLOWANCE (INTERNAL). O' CORROSION ALLOWANCE (EXTERNAL). 1/16° SERVICE, EXPANSIBLE FLUID

GUALITY CONTROL PROGRAM NUMBER: AGP-1522 MELDING PROCEDURE REGISTRATION NUMBER: WP-3150.2

CAPACITY: 2122 FT3 SERVICE: HYDROCARBONS
EXPOSED INSIDE OR OUTSIDE EDGES OF NOZZLES
OR OPENINGS SHALL HAVE AN 1/8" MINIMUM RADIUS.

SURFACE PREPARATION: HAND TOOL CLEAN (MIN)

PRIME AND PAINT. AS PER CLIENT SPECIFICATIONS
ALL BOLT HOLES TO STRADDLE CENTERLINES.
ALL REPADS, OR SEGMENT IF MORE THAN ONE PIECE
IS USED, TO HAVE A MAXIMUM LANDT NEED HOLE. ON THE SHELL, THE WELD IN A TWO-PIECE REPAD SHALL BE LOCATED IN THE CIRCUMFERENTIAL DIRECTION. CLEAN AND COVER ALL OPENINGS FOR SHIPMENT.

USE WELDING PROCEDURE (TBA) FOR ALL TACK WELDS. CRN DRAWINGS, 3468-1 REV 3, 3468-2 REV 3 CRN CALCULATIONS, 3468COR-R3, 3468COIL-RI

DESIGN NOTES

DESIGN & FABRICATE TO: ASME SECTION VIII, DIVISION I, 2010 EDITION, 2011 ADDENDA MAXIMIM ALLOMABLE MORKING PRESSURE (MAMP), 125 PSIG DESIGN TEMPERATURE, 300° F

MINIMUM DESIGN METAL TEMPERATURE (MDMT), -50° F AT 125 PSIG INFACT TESTS, EXEMPT PRE UCS-66a, UCS-66b RADIOGRAPHY - LONG SEAMS, PULL PER UM-11a

RADIOGRAPHY - CIRC SEAMS, SPOT PER UM-11056 (RT-2) (NOTE E) PINHT PER UCS-56: NOT REQUIRED (NOTE P)
HYDROSTATIC TEST PRESSURE: 163 PSIG CORROSION ALLOWANCE: 1/8

WEIGHT EMPTY: 21,000 LBS

MARK	SIZE	SCH	CLASS	TYPE	SERVICE	WELD	A	B	_1	ם	ITEM NO'S
NI	4"	XXH	150	RFWN	INLET	3, 4	3/6*	-	1	3/8"	9, 19, 10
N2	6.	160	150	RFWN	GAS OUTLET	3, 4	3/ 8 "	-		1"	13, 14
NEAB	2°	XXH	150	RFWN	COIL	3, 4	1/2"	-		1/2"	7, 17
N4		XXH	150	RFWN	PI	2, 4	3/8"	-	•	-	6, 16
NSAD	I*	XXH	150	RFWN	SOLIDS LG	2, 4	3/8"	-	1	-	6, 16
N6AB	1"	XXH	150	RFWN	LG / SPARE	2, 4	9/8"	•	-	-	6, 16
N7	4°	HXX	150	RFWN	SOLIDS DRAIN	2, 4	5/8"	•	-	-	9, 19
NØ	4*	жи	150	RFWN	LIQUIDS DRAIN	2, 4	5/8"	•	•	-	9, 19
Nq	3.	ххн	150	RFWN	LIQUID OUTLET	2, 4	3/8"	-	-	-	8, 18, 21
NIO	9°	ХХН	150	REWN	HC LC	2, 4	3/8"	-	-	-	8, 18
NII	3°	жи	150	RFWN	WATER LC	2, 4	3/8"	-	-	-	8, 18
NI2	3"	жн	150	RFMN	P5V	2, 4	3/8*	-	-	-	8, 18
NIBA-C	2*	XXH	150	RFWN	SPARSE	3, 4	1/2*	-	•	1/2*	7, 17
NI4	2°	XXH	150	RFWN	SPARE	2, 4	1/2"	·	•	-	7, 17
							Г				
MIAB	20°	STD	150	RFWN	MANNAY	1, 4	3/8*	-	3/8"	-	3, 11, 12, 20
M2	20°	1.60*	150	RF HB	MANNAY	3	3/8°	-	-	1 1/8"	12, 15
	ľ				l		T				

JUINELLIUM JUILLULL

CRN: V9366.2	
ALBERTA BOILERS SAFETY ASSOCIATION PROVINCE OF ALBERTA SAFETY CODES ACT V 9 3 6 6 . 2	
DWG. No. 3968 SHTS 12 RE 3 A MAWP Docker kPa Temp, C	gs NOTE
VESSEL (NT. 862 1497-96 COLL INT/EXT. 1031/862 1777-96 ACCEPTED //	
OCT 2 2 2012 Samed F. SCHERPENISSE)

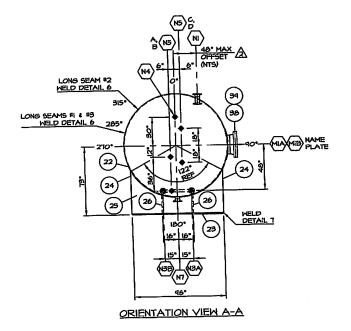
		CANADIAN REGISTRATION NUMBER		
			PJD	R.J
2	12-04-27	REVISE NOTE 12, COIL IMPACT TESTS	PJD	RJ
1	12-08-31	REVISED, ISSUED FOR REGISTRATION	PJD	RJ
٥	12-08-21	ISSUED FOR APPROVAL	PJD	2
Q .	DATE	REVISION	BY	APP

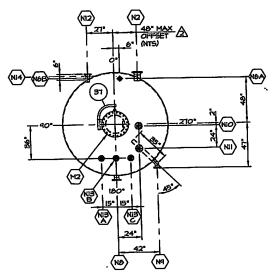
CANADIAN DECICEDATION ARMED

CORAL OILFIELD SERVICES INC. BOX 21160, 15303 - 44 STREET GRANDE PRAIRIE, AB TBX OL2 TELEPHONE: (180) 882-4800 FAX: (180) 882-6868

CLIENT:		
DATE	12-08-19	SEPARATOR
BDD NO.	3468	JEPARATUR
JOB NO.		108" ID x 30'-0" 5/5
SCALE:	NTS	125 PSIG AT -50° / 300° F
DRAWN BY	PJD	
CHECKED BY	뭐	DING NO.1 SHEET I OF 2 REV.
APP BY	PJD	3968 3

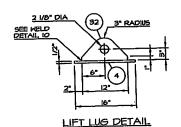
BLUE DIAMOND DESIGN LTD. 1977 VALLEY VIEW PLACE, VICTORIA, BC V9B 6H8 TELEPHONE; (250) 391-4612 6MAIL; dado@shaw.ca





ORIENTATION VIEW B-B

V9366.2



EABRICATION NOTES

- A. THE SHELL LENGTH MAY BE LESS THAN 30'-O", PROVIDED THE SPACING OF NOZZLES MEET CODE.
- B. MATERIAL SPECIFICATIONS MAY BE UPGRADED AS FOLLOMS, PLATE: 5A-36 TO 640-21-44M TO 6A-316-TO TO 9A-516-TON MELD FITTING (BI6.4), 5A-234-MPB TO 5A-420-MPL6 PPE (B36.10), 5A-53-3B, ERM TO 5A-106-B TO 9A-333-GR 6 FORGING (B16.5/B16.11), 5A-105 TO 9A-105N TO 5A-350-LF2 OLAS
- C. ANY CONNECTION MAY BE DELETED EXCEPT A DRAIN (I' NP5 MIN), LOCATED AT THE LONEST POINT PRACTICABLE IN THE VESSEL PER UG-25F AND ONE INSPECTION MANUAY.
- D. MANNAYS MIA & MIB MAY ONLY BE LOCATED RADIALLY ON THE SHELL AND M2 MAY ONLY BE LOCATED ON THE CENTERLINE OF THE HEADS.
- E. RADIOGRAPHY ON THE CIRCUMFERENTIAL SEAMS MAY BE INCREASED TO FULL PER UN-III.
- F. POST WELD HEAT TREATMENT MAY BE ADDED PROVIDED A PINIT WELDING PROCEDURE IS USED (TBA).
 TEMPERATURE AND TIME: 1125° F 125° F FOR 44 MINUTES (MINIMUM).

TEM	arr	Г			DESCRIP	TION		1	MATERIAL	
1	2		EADS - 108" ID x 5	18"	THK (500"	MIN) 2:1 SE, 2"	5F	7 0	A-516-TO	N
<u>.</u>	3	_	LATE - 108" ID x 1/				SHELL #1, #	9	A-516-70	N
3	2		LATE - I/2" THK x				IB REPAD, NOTE	ء آه	A-516-70	N
4	2		LATE - I/2" THK x				LUG PAD, NOTE	9 6	A-516-70	N
5	1		TANDARD NAME PI			CKET		30	74 SS/SA-	36
6	+		LANGE - I' CLASS				N4, N5AD, N6A	в	SA-105N	
7	6		LANGE - 2" CLASS				NBAB, IBABC,	14	SA-105N	
В	4		LANGE - 3" CLASS					12	5A-105N	╗
4	3		LANGE - 4" CLASS					B	SA-105N	
10	۲Ť	_	LANGE - 4" CLASS	_			NI INTERNA	<u> </u>	SA-105N	
2 =	1 2		LANGE - 20" CLAS	_		N SCH STO BOR	E MIA, M	ıв	5A-105N	
12	1 3		FLANGE - 20" CLA				MIA, MIB, N	12	SA-105N	\Box
13	۲Ť		FLANGE - 6' CLASS					N2	SA-105N	\Box
14	+÷	_	PIPE - 6" SCH 160	_				N2	5A-106-E	3
15	ti	- 1 -	FLANGE - 20" CLA	_			1	12	SA-105N	1
16	→		PIPE - I" SCH XXH (N4, N5AD, N6A	4В	SA-106-1	3
17	+-	_	PIPE - 2" SCH XXH				NBAB, NIBABC, N	ü4	SA-106-1	В
10	-		PIPE - 3" SCH XXH				N9, NIO, NII, 1	412	5A-106-1	В
19	-		PIPE - 4" SCH XXH				NI, N7,	-	5A-106-	В
20	 -		PIPE - 20" SCH STI				MIA, N	1(B	SA-106-	в
1			ELBOW - 3° SCH X					NG :	5A-234-h	PB
	_	-	PLATE - 3/8" THK				OLL-104" ID, NOTE	<u> </u>	SA-516-70	ON
2		-	PLATE - I" THK x I				BASE PLA		5A-36	
1		-	PLATE - 3/8" THK			LE	SIDE PLA	TE	SA-36	
1		-	PLATE - 3/8" THK				PLATE, TRIM TO	FIT	5A-36	
12	-	-	PLATE - 3/8" THK				RIB PLA	TE	9A-36	
-	_		FLANGE - 2" CLAS				COIL, NIBA	вс	5A-105	N
∙ ⊢	-		PIPE - 2" SCH XH			SUIT	0	OIL !	SA-53-B,	ERM
-	_	┧	ELBOW - 2" SCH X				c	OIL	SA-234-V	NPB
_		<u>-</u>	GASKET - 2° CLA				HK C	OIL	304 5	5
		٥	STUDS - 5/6" DIA	x 3	1/4" LG CM	2 NUTS EACH (SA-194-2H) C	OIL	5A-193-	87
_	~	2	PLATE - I" THK X			5	RE LIFT LUS DET	AIL	5A-36	, .
_	_	-	PLATE - 3/8" THK			x 54" KIGH	WIER PL	ATE	5A-36	,
- 1-	34	÷	PIPE - 16" SCH ST				MIST PAD HOUS	ING	5A-106	-В
_	7	÷	MIST PAD - 15 1/4				MIST F	PAD	316 59	5
-	_	2	FLAT BAR - 1/2"				AD, ROLL-15 1/8"	00	5A-36	5
_ <u> </u> _	~	3	STANDARD 20° C				MIA, MIB		5A-36	5
		3	GASKET - 20" CL				THK MIA, MIB	, M2	304 5	6
- 12	_	60	STUDS-I I/B" DIA	x 6	1/4" LG c/w	2 NUTS EACH (5A-194-2H) MIAB	, M2	SA-193	-B7
Ľ	<u> </u>	_	1	3		ADD NOTES E,			PJD	RJ
			ţ	2	12-09-27	ADD NI, N2 SH	ELL OFFSET DIST	TANCE	PJD	RJ
s.				ı	12-08-31	REVISED, 1990	ED FOR REGISTR	POITAS	N PJD	RJ
4				0	12-08-21				PJD	묎
			Ì	NO.	DATE		REVISION		BY	APP
CLA 5 MI	55 1 N),					BOX 21160,	ELD SERVIC 15303 - 44 STRE LAIRIE, AB TOX 1-4800 FAX. (T	£ET OL2		

REF DWG.		
DATE	12-08-13	SEPARATOR
BDD NO.1	3968	
JOB NO.		108" ID x 30'-0" 5/5
SCALE:	NTS	BOM, END VIEWS, DETAILS
DRAWN BY	PJD	DWG NO. GUEET 2 OF 2 REV.
CHECKED BY	i RJ	DWG NO.1 SHEET 2 OF 2 REV.
APP BY	PJD	5400

BLIE DIAMOND DESIGN LTD. 1977 VALLEY VIEW PLACE, VICTORIA, BC V9B 6HD TELEPHONE; (250) 391-4612 6MAIL; dado@shan.ca



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

October 22, 2012

Attention: Riley Johnson

CORAL OILFIELD SERVICES INC

BOX 21160

GRANDE PRAIRIE, AB

The design submission, tracking number 2012-07082, originally received on October 15, 2012 was surveyed and accepted for registration as follows:

CRN:

V9366.2

Accepted on: October 22, 2012

Reg Type:

Revision To accepted Design

Drawing No.: 3968 SHTS 1, 2 Rev 3 As Noted

Design registered in the name of : CORAL OILFIELD SERVICES INC

Description	MAWP	Design Temperature	MDMT
Internal Pressure	862 kPa	149 [°] C	-46°C
COIL MAWP	1034 kPa	177°C	-46°C
COIL EXTERNAL PRESS.	862 kPa	177°C	-46°C

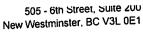
The registration is conditional on your compliance with the following notes:

WPS # to be indicated on the construction drawing for each applicable weld detail prior to start fabrication.

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 (403) 291-7071 ext 2219 or fax (403) 291-4545 or e-mail scherpenisse@absa.ca.

Sincerely,

SCHERPENISSE, FERNANDO





Toll Free: 1-866-566-SAFE Fax: (778) 396 - 2064 www.safetyauthority.ca

CORAL OILFIELD SERVICES INC. BOX 21160 GRAND PRAIRIE AB T8V 6W7

Date:

November 21, 2012

Account #: 52081 Journal #: 55964 Our File #: 5298193

Attn: RILEY JOHNSON

Application for Design Registration Re:

The design, as detailed in your, Ref: 4014, for a Pressure Vessel is accepted for registration as follows:

Registered To: CORAL OILFIELD SERVICES INC. CRN:

V9366.21

MDMT: -50 deg F

MAWT: 300 deg F

MAWP: 125 psig

Drawing #: 3968 Shts 1, 2

Drawing Revision: 3

Conditions Of Registration:

1- Coil design condition: 150 psig (internal) & 125 psig (external) @ -50/+350 deg F.

Fee for reviewing your design:	<u>Amount</u> \$222.00	<u>HST</u> \$26.64	<u>Total</u> \$248.64
-	\$222.00	\$26.64	\$248.64
Total:	•	•-	\$0.00
Less amount received with submission:			\$248.64

An invoice for \$248.64 will follow.

Contact me if you have any questions.

ALIREZA BONAKDAR (778) 396-2032 Alireza.Bonakdar@safetyauthority.ca Design Engineer

cc:



330 - 1855 Victoria Avenue Regina, SK S4P 3T2 Canada

306-787-1443 info@tsask.ca www.tsask.ca

04-Dec-12

Coral Oilfield Services Inc. Box 21160 Grande Prairie, AB T8V 6W7

Our File 46728 [0V]

REGISTRATION APPROVAL

ATTENTION: Riley Johnson

With reference to your submission respecting the registration of the item below, for legal use in the province, please note we have surveyed, approved and registered this design as noted.

MANUFACTURER:

Coral Oilfield Services Inc.

ITEM:

DRAWING NUMBER:

CRN:

Separator

3968 SHTS 1&2 Rev. 3 As Noted

V9366.23

We wish to point out that every vessel must be constructed strictly in accordance with the registered design.

In addition to stamping every vessel with the registration number given above and as required in CSA Code B51, a Manufacturer's Data Report must be forwarded to this office immediately at the time a vessel is shipped. Such forms may be obtained upon request.

Sincerely,

Steven Court

Codes and Standards Compliance

REMARKS: CRN registered under reciprocal agreement and conditional upon compliance with

the notes on the original ABSA registration.

WELDING PROCEDURE SPECIFICATION	ION NO.: COS-2 (Rev. 2)
WELDING PROCEDURE QUALIFICATI	ION RECORD NO.(S):
•	COS-2-1, COS-2-2, COS-7
QUALIFIED IN ACCORDA	ANCE WITH ASME SECTION IX FOR
Base Metal (Typical): Std. Appl.: P1 to F	P1 Fr. B, SA 105, SA 516 Gr. 70, etc.)
Notch Appl.: P1 G	Groups 1 & 2 to P1 Groups 1 & 2
CSA grades are re	N 350 Gr. LF2, SA 420 WPL6, SA 516 Gr. 70, etc.) estricted to Gr. 386 and lower, API grades
restricted to Gr. X5 Process(es): SMAW	56 and lower.
Weld Types: GROOVE & FILLET Position: ALL POSITIONS	
Diameter: ALL DIAMETERS	
	7018, E7018-1 Notch Appl.: E6010, E7018-1
BASE METAL CONDITIONS & GROOV	
STANDARD APPLICATIONS WITH POSTW BASE METAL THICKNESS RANGE	
	-50 °F WITH POSTWELD HEAT TREATMENT 0.125 to 8.00 in. inclusive
COMBINED DEPOSITED WELD METAL TH	
ASME B31.1 ASME B31.3	8.00 in. maximum 8.00 in. maximum
ASME SECTION VIII, DIVISION 1 CSA Z662 Clause 7.2.5	8.00 in. maximum 8.00 in. maximum
OGA 2002 Gladde 1.2.0	6.00 m. maximum
	This WPS was prepared to the requirements of
ND(A	ASME IX 2013 and includes some of the additions
SAFETY CODES ACT - PROVINCE OF ALBERTA	requirements of the construction codes listed. The application of this WPS is outside the work scope of
WELDING PROCEDURE	SGS Canada Inc.
Reg. No. WP. 3150.2 Spec No. Cos-2 (Rev 2)	Prepared By Toper Perrier
Weld Process SMAW Matl. Gr. P No. 16-112 to P No. 16-112	Signed:
Elect Gr. F No. 3+4 A No.	AD 250 -
Th. Qual For 203mm PWH.T. YES	Date:
Yr.LS_Mo. 3_Day 4_Signed ARI	Reviewed By: Darren McLean
JASON REINHART, PENG. WELDING SPECIALIST	Signed:
	Date: <u>Fas. 25/2015</u>
PROVINCIAL REGISTRATION	

WELDING PROCED	URE SPECIFICATION	1 NO.:		COS-9 (Rev. 1)
WELDING PROCED	URE QUALIFICATION	N RECORI	S).ON C) :
				COS-7-1, COS-7-2,
			_	COS-CVN-PWHT-1 (Rev. 0)
QUAL	LIFIED IN ACCORDANC	E WITH AS	SME SEC	CTION IX FOR
Base Metal (Typical):	Std. Appl.: P1 to P1			
	(SA 36, SA 106 Gr. f	3, SA 105,	SA 516 G	ir. 70, etc.)
	Notch Appl.: P1 Gro	ups 1 & 2 to	P1 Gro	ups 1 & 2
	(SA 333 Gr. 6, SA 35	60 Gr. LF2.	SA 420 V	<u> VPL6, SA 516 Gr. 70, etc.)</u>
				lower, API grades
	restricted to Gr. X56	and lower.		
Process(es):	GMAW / FCAW			
Weld Types:	GROOVE & FILLET	Posi	tion:	ALL POSITIONS
Diameter:	ALL DIAMETERS	Fille	r Metal:	ER70S-6, E71T-12M-J
STANDARD APPLICA BASE METAL THICK	DITIONS & GROOVE TIONS WITH POSTWE NESS RANGE	LD HEAT T 0.18	REATME 8 to 8.00	ENT in. inclusive
NOTCH TOUGHNESS BASE METAL THICK		0.18	8 to 8.00	ELD HEAT TREATMENT in. inclusive
ASME B31.1 ASME B31.3	TED WELD METAL THIC — ON VIII, DIVISION 1 — use 7.2.5	8.00 8.00 8.00		
				prepared to the requirements of
	oca i	11		nd includes some of the additional
CASETY GODEO AOT		require	ements of i	the construction codes listed. The
	PROVINCE OF ALBERTA	applica	ation of this	WPS is outside the work scope of
WELDING	PHOCEDURE	909 0	Canada Inc	¥
Reg. No. WP 3/50. 2	Zananotianarra quan escantona personales escantos de l'arrene		Janada ino	•
Spec No. CoS-9 (.]		
Weld Process		Prepa	red By: Tir	nothy Colpitts
	to PNo. 16c 1+2	Signe	ند. <i>ا</i> ستان	the S. Celiate
Elect Gr. F No.	A No	· Oigno		11 5
	PWHT YES	Date:	<u> Lebru</u>	very 11, 2015
MINTUGUAL Y				•
Ye. 15Mo. 3. Day. 2. Sig				l
I to adjust to the order to Call or the Call	mad L. P. L.	Revie	wed By: D	arren McLean
{ ! 【	JASON REINHART, P.ENG.			arren McLean
	JASON REINHAHT, PENG. WELDING SPECIALIST	Revie Signe	d:	
	JASON REINHART, P.ENG.		d:	arren McLean

WELDING PROCEDURE SPECIFICATIO	N NO.:	COS-11 (Rev.1)
WELDING PROCEDURE QUALIFICATIO	N RECORD	NO.(\$): COS-2-2, COS-7-1,
		COS-7-2, COS-11-1,
		COS-CVN-PWHT-2 (Rev. 0)
4		
QUALIFIED IN ACCORDAN	CE WITH ASI	ME SECTION IX FOR
Base Metal (Typical): Std. Appl.: P1 to P1	<u> </u>	
(SA 36, SA 106 Gr.	B, SA 105, SA	
Notch Appl.: P1 Gro	oups 1 & 2 to	P1 Groups 1 & 2
(SA 333 Gr. 6, SA 3	50 Gr. LF2, S	A 420 WPL6, SA 516 Gr. 70, etc.)
CSA grades are res	tricted to Gr. 3	386 and lower, API grades
restricted to Gr. X56		
Process(es): GMAW / SMAW / SAW		
Weld Types: GROOVE & FILLET Position: GMAW & SMAW: ALL	SAM.	ELAT & HORIZONTAL
Position: GMAW & SMAW: ALL DIAMETERS	OAVV. 1	-LAI & HOMEONIA
Filler Metal: Std. Appl.: ER70S-6,	E7018 E7018	R-1 F7PX-FM14K
Notch Appl.: ER70S-6.	E7018-1 F7F	26/8-FM14K
BASE METAL CONDITIONS & GROOVE	E THICKNES	S RANGE QUALIFIED:
STANDARD APPLICATIONS WITH POSTWE	•	
BASE METAL THICKNESS RANGE		o 8.00 in. inclusive
NOTCH TOUGHNESS APPLICATIONS TO - BASE METAL THICKNESS RANGE	50 °F WITH P 0.625 t	OSTWELD HEAT TREATMENT o 8.00 in. inclusive
_		
COMBINED DEPOSITED WELD METAL THI		•
ASME B31.1 _		, maximum
ASME B31.3		, maximum . maximum
ASME SECT. VIII, DIV.1		. maximum . maximum
CSA Z662 FABRICATION	<u> </u>	. maximum
	This Wi	S was prepared to the requirements of
·	1 1	X 2013 and includes some of the additional
	1 4	nents of the construction codes listed. The
	a H '	!
SAFETY CODES ACT - PROVINCE OF ALBERTA	11 11	on of this WPS is outside the work scope of
WELDING PROCEDURE	SGS Ca	nada Inc.
Reg. No. WP3/50.2		
Reg. No. WP3/50.2 Spec No	Prepare	d By: Tyler Rerrier
Weld Process GMAW/SMAW/SAW	Signadi	
Matl. Gr. P No. 16- 112 to P No. 16- 112	Signed:	
Elect Gr. F No. 6+4+6 A No.	Date: _	February 25, 2015
Th. Qual For 203 MAN P.W.H.T. YES		()
MIN TH QUAL 15 9mm, CUN - 46°C	Boulous	ad Bur, Darran McLean
***************************************	Reviewe	ed By: Darren McLean
Yr. SMo. 3 Day 3 Signed ASON REINHART, PENG.	Signed:	
WELDING SPECIALIST	Date:	Feb. 25/2015
	Date	160.001001

(File C15-131)

PROVINCIAL REGISTRATION

AB-83 2011-09

The pressure equipment safety authority

PRESSURE PIPING CONSTRUCTION AND TEST DATA REPORT

Field Construction :

Shop Construction ⊠;

In accordance with the provisions of the PESR Section 31(1)

the	pressure equipment safety authority	Final Data Report ⊠;	Partial Data Repor	rt □ (from one ABSA ABSA- authorize	 authorized Contracto cd Contractor). 	r to another
		Complete	both sides of this Fo	orm		
1.	Constructed By: Coral	Oilfield Services Inc.			s Job No: <u>4570</u>	
	(Na	me of ABSA authorized primary	contractor or subc	ontractor)		
	15303	3 94 St. Grande Prairie AE				_
	Certificate of Authoriza	tion Permit No. AQP-1522	(Address)	Expiry Date:	September 6 th 2019	
2		·				
۷.	Constructed For:	(Name of primary	contractor if different	from above)		
		· - · · · · · · · · · · · · · · · · · ·	(Address)	Expiry Date:	NI/A	
	Certificate of Authoriza	tion Permit No. AQP-N/A	Continue - NDE			
	(Required when the primary contra	ctor undertakes some/all of the quality	functions, e.g., NDE,	PWHI, He-III, labrication, ny	dio test, illui asseriori eter,	
3.	Owner: Haltec Testing	Inc Box 92 Baytree	Alberta T0H	0A0 .		
٠.	3	(Name and ac				
	Portable					
		(Location of ins	tallation)			2010
	Certificate of Authoriza	tion Permit No. AQP- 🌇	<u> </u>	Expiry Date:	September 6th	2019
	(Required when the owner under	takes some/all of the quality function	ns, e.g., NDE, PWHT	, Tie-in, fabrication, hydro t	est, final assembly etc.)	
_		S to d No DD NI/A				
4.	Piping Design Alberta	Registration No.: PP-N/A	(Pag	quired if aggregate piping vo	lume is over 0.5m ³)	
_	Daalan Daamanaihilituu	Owner M. Contractor	(Nec	lauca u aggregate promis	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Э.	Design Responsionity:	Owner ⊠; Contractor □				
6.	WP No.: WP-3150.2	; Company: Coral Oilfield	Services Inc.	Owner's WP N	No. (If used): WP <u>-N/</u>	<u>'A</u>
	(Alberta Registration	n No.)			(Alberta Registr	ation No.)
	WPS No(s). used: COS	S-1 (Rev2)	; Owner's	WPS No(s). (If used	i): <u>N/A</u>	
7	Codo: ASME D31 1 N	on Boiler External Piping	□: ASME B3	1.1 Boiler External	Piping □;	
/.	. Code. ASME D31.1 N 215 □ • R31 0	☐; CSA Z662 Steam Pip	elines □:		1 5 7	
	ASME B31.3 ⊠	1 - Service Category: Norm	nal ⊠. D □. M	☐, High Pressure ☐	; Severe Cyclic Con	dition 🛛
	High Purity □	1 - 551 / 100 Category 1 1 1011	<u></u> ,	_,	-	
	Inguiunty 🗀					

Drawing No. Rev. No. Line No.	Fluid (Air/Stm. Etc.)	Des. Press. PSI	Des. Temp. F (Max. & Min.)	Pressure Test PSI	Test Medium	Pipe Mat'l Spec. & Grade	C.A. inches	Pipe NPS & Schedule	Flange Material & Rating	PWHT/ Preheat Temp. ° F	NDE
Control Number 1	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	4"SCH80	A350-LF2 CL150	n/a /50	100% RT 100% MT 100% VT
Control Number 2	W.O.G	125	-50/300	188	Water	A333-GR6	0.125*	4"SCH80 3"SCH80	A350-LF2 CL150	n/a/50	100% RT 100% MT 100% VT
Control Number 3	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3"&4" SCH80	A350-LF2 CL150	n/a/50	100% RT 100% MT 100% VT
Control Number 4	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3" SCH40	A350-LF2 CL150 A105 Fig 206 h/u	n/a/50	100% RT 100% MT 100% VT
Control Number 5	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	4"SCH80 ½"NPT	A350-LF2 3M	n/a/50	100% RT 100% MT 100% VT
Control Number 6	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3"SCH80	A350-LF2 CL150	n/a/50	100% RT 100% MT 100% VT

AB-83 2011-09	AR	-83	201	11-	09
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Control W.O.G 125 S00,000 188 Water A333-GR6 0.125" S7SCH80 A350_LF2 Control Number 1 Number 1				50,700	100	Water	A420WPL6	0.125"	3"SCH80	A350 LF2	n/a/50	100% RT
Number N	Control	W.O.G	125	-50/300	188	Water	A420WPL0	0.123	3 301100			
Control Number No. G	Number 7					1					ľ	100% VT
Control Number N.O.G 125 -50/300 188 Water A333-GR6 0.125 4"SCH180 A350-LF2 n/a /50 100% NT 100% NT							4222 CD/	0.125"	2"SCH80	A350 LF2	n/a/50	
Namber N	Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	3 SCF160		1020 50	
Control Number No.	Number 8									CLISO		
Number N								0.4051	177 01 100	A250 LE2	n/a/50	
Number O	Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"		A350-LF2	11/8/30	
Control Number 1	l l								3"SCH80		1	
Control Number 10	Nulliber			1		l l			l i			100% V I
Control Number Nu				1								
Number 10 Number 12	Control	WOG	125	-50/300	188	Water	A333-GR6	0.125*	4"SCH80		n/a /50	
Control Number Nu		w.o.u	123	30,300	100				3"SCH80	CL150		
Control Number 1	Number 10	1		1	1				1	A105	1	100% VT
Control Number Control Number Number Control Numb				1 1					! I	4"FIG206		
Number 12 W.O.G 125 -50/300 188 Water A333-GR6 0.125 4"SCH160 A350-LF2 nia /50 100% NT 1			425	50/200	100	Water	A333-GR6	0.125"	4"SCH80	A350-LF2	n/a /50	100% RT
Number 1	Control	w.o.g	125	1 -50/300	100	Water	A333-GR0	••••				100% MT
Control Number 12 W.O.G 125 -50/300 188 Water A333-GR6 0.126 4"SCH160 A350-LF2 mfa /50 100% kT 100%	Number 11			1					1			100% VT
Control Number 13 V.O.G 125 -50/300 188 Water A333-GR6 0.125' 4"SCH160 A350-LF2 C1.50 100% NT 100%				 			4222 CD4	0.125"	4"SCH80	A350-LF2	n/a /50	
Number 12 Control W.O.G 125 -50/300 188 Water A333-GR6 0.125' 4"SCH160 A150-LF2 rula /50 100% RT 100% MT 1	Control	W.O.G	125	-50/300	188	water	A333-GK6	0.123	4 301160		1	
Control Number 13 W.O.G 125 -50/300 188 Water A333-GR6 0.125' 4"SCH160 A130-LF2 A150-LF2 A150-LF2 A105 A1	Number 12								1	CEISO		
Number 13 W.O.G 125 -50/300 188 Water A333-GR6 O.125" 4"SCH160 A105 A								0.4001	4770 011140	4250 LE2	n/o /50	
Number 13	Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	4 SCH 100		104 150	
Control Number Nu	Number 13					}			1			
Control Number 14 W.O.G 125 -50/300 188 Water A333-GR6 0.125 4"SCH160 A350-LF2 109% MT 109	ivamoe: 15	ļ		Į I					1 1			10070 11
Control Number 14 W.O.G 125 -50/300 188 Water A333-GR6 0.125" 4"SCH160 A105 A105 A106	l			1 1					<u> </u>		1 150	1000/ DT
Namber 14 No. No.	Control	wog	125	-50/300	188	Water	A333-GR6	0.125"	4"SCH160		n/a /50	
Control Number Nu				[1	1	1 1			
Control Number Nu	Number 14			l i			1		1			100% V 1
Control Number S Wo.G 125 -50/300 188 Water A333-GR6 0.125 4"SCH160 A105 A105 A106 A105 A106 A105 A106 A105 A106 A105 A105 A106 A105 A10				1		ļ				4"206HU		
Control Number S		11/00	125	50/200	199	Water	A333-GR6	0.125"	4"SCH160	A105	n/a /50	
Control Number Nu		w.o.G	123	1 -30/300	100	'''	1.200			4"Fig 206		
Control Number Nu	Number 15		ļ	l i		l		1	i l			100% VT
Number 16 Number 16 Number 17 Number 17 Number 18 Number 18 Number 19 Number 10 Numb				50,000	100	Water	A222 CP6	0 125"	4"SCH160		n/a /50	100% RT
Number 16	Control	W.O.G	125	-50/300	100	Water	7333-010	•=		4"Fig 206		100% MT
Control Number 17 W.O.G 125 -50/300 188 Water A333-GR6 0.125" 4"SCH160 A105 4"Fig 206 1/1/U 100% MT 100% MT	Number 16		ł	1		ł		1				100% VT
Control Number 18 Water A333-GR6 O.125* 4"SCH160 A105 A7Fig 206 H/U 100% MT		<u> </u>		 		 	1222 CD(0.125"	4"SCH160		n/a /50	
Number 17	Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.123	4 3011100		154,00	
Control Number 18	Number 17	ļ				ì		ļ	1			
Control Number 18				<u> </u>				0.4051	4700011160		n/n /50	
Number 18 Control W.O.G 125 -50/300 188 Water A333-GR6 0.125' 4"SCH160 A105 H/U H/	Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	4"SCH100		11/2/30	
Control Number 19	•	l,	1	1 1		1			1		l	
Control Number 19 W.O.G 125 -50/300 188 Water A333-GR6 0.125" 4"SCH160 4"Fig 206	Number 10			11		<u> </u>					1- 150	
Number 19 Number 19 Number 19 Number 19 Number 20 Number 21 Number 21 Number 21 Number 21 Number 21 Number 22 Number 22 Number 22 Number 24 Number 24 Number 24 Number 24 Number 25 Number 25 Number 26 Number 26 Number 26 Number 26 Number 29 Number 29 Number 29 Number 29 Number 29 Number 29 Number 20 Numb	Control	W.O.G	125	-50/300	188	Water	A333-GR.6	0.125"	4"SCH160		n/a /50	
Control Number 20		1		1 1		ļ	1					
Control Number 20 W.O.G 125 -50/300 188 Water A333-GR6 0.125' 4"SCH160 4"Fig 206 H/U 100% MT 100% MT	Nulliber 19	i	Į.	1 1								
Number 20 Number 20 Number 20 Number 20 Number 21 Number 22 Number 22 Number 22 Number 22 Number 23 Number 24 Number 24 Number 24 Number 24 Number 25 Number 26 Number 26 Number 27 Number 28 Number 29 Number 28 Number 29 Number 20 Numb	Control	WOG	125	-50/300	188	Water	A333-GR6	0.125"	4"SCH160		n/a /50	
Control Number 21 W.O.G 125 -50/300 188 Water A333-GR6 0.125' 4"SCH160 A105 4"Fig 206 H/U 100% MT		W.O.G	123	1 20,200			1					
Control Number 21 W.O.G 125 -50/300 188 Water A333-GR6 0.125' 4"SCH160 A105 4"Fig 206 H/U 100% VT 100% MT 100% VT 100% MT	Number 20	1	1	1 1				1	i	H/U		
Number 21 Number 21 Number 21 Number 21 Number 21 Number 22 Number 22 Number 22 Number 22 Number 22 Number 24 Number 25 Number 25 Number 26 Number 27 Number 28 Number 29 Number 29 Number 29 Number 29 Number 29 Number 29 Number 20 Numb	<u> </u>	W0.6	125	50/300	198	Water	A333-GR6	0.125"	4"SCH160	A105	n/a /50	
Control Number 22 W.O.G 125 -50/300 188 Water A333-GR6 0.125' 4"SCH160 A105 4"Fig 206 H/U 100% NT		W.U.G	125	-30/300	100	""	1,555 5.13		· I	4"Fig 206	l	
Control Number 22 W.O.G 125 -50/300 188 Water A333-GR6 0.125" 4"SCH160 A105 A105 A106 MT 100% VT	Number 21			1 1		1		l l	1	H/U		100% VT
Control Number 22			125	50/200	100	Water	A333-GR6	0.125"	4"SCH160	A105	n/a /50	100% RT
Number 22	Control	W.O.G	125	-50/300	188	Water	A333-GRU	1 020	1.00			100% MT
Control Number 24 W.O.G 125 -50/300 188 Water A333-GR6 0.125" 4"SCH160 A105 4"Fig 206 H/U 100% MT 100% VT 100% MT 100% VT 100% MT	Number 22		1			1	ì				Į.	100% VT
Control Number 24 W.O.G 125 -50/300 188 Water A333-GR6 Control Number 25 W.O.G 125 -50/300 188 Water A420WPL6 Control Number 25 W.O.G 125 -50/300 188 Water A420WPL6 Control Number 26 W.O.G 125 -50/300 188 Water A420WPL6 Control Number 29 W.O.G 125 -50/300 188 Water A333-GR6 Control Number 29 W.O.G 125 -50/300 188 Water A333-GR6 Control Number 29 W.O.G 125 -50/300 188 Water A333-GR6 Control Number 30 W.O.G 125 -50/300 188 Water A333-GR6 Control Number 31 W.O.G 125 -50/300 188 Water A333-GR6 Control Number 31 W.O.G 125 -50/300 188 Water A333-GR6 Control Number 31 W.O.G Control Number 31 W.O.G 125 -50/300 188 Water A333-GR6 Control Number 31 Water A333-GR6 Control Number 31 Control W.O.G 125 -50/300 188 Water A333-GR6 Control Number 31 Control W.O.G Control Number 31 Water A333-GR6 Control V.O.G Control V.		<u> </u>				1	A222 CDC	0.125"	A"SCLIED		n/a /50	
Number 24 Control W.O.G 125 -50/300 188 Water A420WPL6 0.125" 4"SCH80 A105 4"Fig 206 H/U 100% VT	Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	14 3CH 100			
Control Number 25 W.O.G 125 -50/300 188 Water A420WPL6 0.125" 4"SCH80 A105 4"Fig 206 H/U 100% MT 100% WT 100	Number 24	1				1	1	1	1		1	
Control Number 25 W.O.G 125 -50/300 188 Water A420WPL6 W.O.G W.O.G 125 -50/300 188 Water A420WPL6 W.O.G W.O.G 125 -50/300 188 Water A420WPL6 W.O.G W.O.G	1	1_	}				 	1	40001100		n/o /50	
Number 25	Control	W.O.G	125	-50/300	188	Water	A420WPL6	0.125"	4"SCH80		ייני איוו	
Control Number 26 W.O.G 125 -50/300 188 Water A420WPL6 0.125" 4"SCH80 A105 4"Fig 206 H/U 100% MT 100% VT		1	I	1	l			1	1		1	
Control Number 26 W.O.G 125 -50/300 188 Water A420WPL6 W.O.G H/U 100% MT 100% VT	Humber 23		1	1								
Number 26 Number 26 Number 26 Number 26 Number 27 Number 29 Number 20 Numb	Control	WOG	125	-50/300	188	Water	A420WPL6	0.125	4"SCH80		n/a /50	
Control Number 29 W.O.G 125 -50/300 188 Water A333-GR6 0.125" 2"SCH80 A105 Fig 206 H/U A350-LF2 CL150 100% MT 100% VT			1	1	1		I	1	1		1	
Control Number 29 W.O.G 125 -50/300 188 Water A333-GR6 Water A333-GR6 W.O.G Control Number 30 W.O.G 125 -50/300 188 Water A333-GR6 Water A333-GR6	Number 26	1	1	1			<u> </u>				 	
Control Number 30 W.O.G 125 -50/300 188 Water A333-GR6 0.125" 2"SCH80 A350-LF2 CL150 100% MT 100% VT	Control	WOG	125	-50/300	188	Water	A333-GR6	0.125"	2"SCH80		n/a /50	
Control Number 30 W.O.G 125 -50/300 188 Water A333-GR6 0.125" 2"SCH80 A350-LF2 CL150 100% NT 100% VT		w.o.u	123	50,500					1		1	
Control Number30 W.O.G 125 -50/300 188 Water A333-GR6 0.125" 2"SCH80 A350-LF2 CL150 n/a /50 100% RT 100% MT 100% VT Control Number 31 W.O.G 125 -50/300 188 Water A333-GR6 0.125" 2"SCH80 A350-LF2 CL150 n/a /50 100% RT 100% MT 100% MT 100% VT Control W.O.G 125 -50/300 188 Water A333-GR6 0.125" 2"SCH80 A350-LF2 CL150 n/a /50 100% RT 100% MT	Number 29	1	1	1					1		1	100% VT
Control Number 30 W.O.G 125 -50/300 188 Water A333-GR6 0.125 2 SCH80 CL150 100% MT 100% VT	1	İ		1			1	1				
Control W.O.G 125 -50/300 188 Water A333-GR6 0.125" 2"SCH80 A350-LF2 CL150 100% MT 100% MT 100% MT 100% VT 100% MT 100% VT 100% VT 100% MT 100% VT 100% MT 100% MT	 	+ ,,,,,,,	125	50/200	100	Water	A333-GR6	0.125	2"SCH80	A350-LF2	n/a /50	
Number 30		W.O.G	125	-50/300	100	*** atci	1 '1555-010				1	1
Control W.O.G 125 -50/300 188 Water A333-GR6 0.125 2 SCH80 CL150 100% MT 100% VT	Number30	1	1			1	1					100% VT
Control W.O.G 125 -50/300 188 Water A333-GR6 0.125 2 SCH80 CL150 100% MT 100% VT			 	50,000	400	11/-4	A222 CD4	0 125	2"SCH80	A350-LF2	n/a /50	100% RT
Number 31 100% VT Control W.O.G 125 -50/300 188 Water A333-GR6 0.125" 2"SCH80 A350-LF2 n/a /50 100% RT 100% MT	Control	W.O.G	125	-50/300	188	water	A333-UKO	1 5.123	2 351180			
Control W.O.G 125 -50/300 188 Water A333-GR6 0.125 2"SCH80 A350-LF2 n/a /50 100% RT 100% MT	Number 31	1	1	1	1		1			1	1	
Control W.O.G 125 -50/300 188 Water A333-GRO CL150 100% MT						 	1,222,222	0.405	275 CT 180	A350.1 E2	n/a /50	
	Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	2 SCF180		100/30	
110070 1		1	1	- 1						02130		
	1	1	1									1.00.01

Α	B-8	33	2	0	1	1	-1	0	9
_		_	_			_	_		_

			40/200	100	Water	A333-GR6	0.125"	2"SCH80	A105	n/a /50	100% RT
Control Number 33	W.O.G	125	-50/300	188	water	A333-GR0	0.120	2 3000	Fig 206 H/U A350-LF2 CL150		100% MT 100% VT
Control Number 34	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	2"SCH80	A350-LF2 CL150	n/a /50	100% RT 100% MT 100% VT
Control Number 35	W.O.G	125	-50/300	188	Water	A333-GR6	0.125*	2"SCH80	A350-LF2 CL150	n/a /50	100% RT 100% MT 100% VT
Control Number 36	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	2"SCH80	A350-LF2 CL150	n/a /50	100% RT 100% MT 100% VT
Control Number 37	W.O.G	125	-50/300	188	Water	A420WPL6	0.125"	2"SCH80	A105 Fig 206 H/U	n/a /50	100% RT 100% MT 100% VT
Control Number 38	W.O.G	125	-50/300	188	Water	A420WPL6	0.125"	2"SCH80	A105 2"Fig 206 H/U	n/a /50	100% RT 100% M [*] 100% V
Control Number 56	W.O.G	125	-50/300	188	Water	A420WPL6	0.125*	3"SCH80	A105 Fig 206 H/U	n/a /50	100% R7 100% M 100% V
Control Number 57	W.O.G	125	-50/300	188	Water	A420WPL6	0.125"	3"SCH80	A105 Fig 206 H/U	n/a /50	100% R7 100% M 100% V
Control Number 58	W.O.G	125	-50/300	188	Water	A420WPL6	0.125"	3"SCH80	A105 Fig 206 H/U	n/a /50	100% R7 100% M 100% V
Control Number 59	W.O.G	125	-50/300	188	Water	A420WPL6	0.125*	3"SCH80	A105 Fig 206 H/U	n/a /50	100% R 100% M 100% V
Control Number 60	W.O.G	125	-50/300	188	Water	A420WPL6	0.125"	3"SCH80	A105 Fig 206 H/U	n/a /50	100% R 100% M 100% V
Control Number 61	W.O.G	125	-50/300	188	Water	A420WPL6	0.125"	3"SCH80	A105 Fig 206 H/U	n/a/50	100% R 100% M 100% V
Control Number 62	W.O.G	125	-50/300	188	Water	A420WPL6	0.125"	3"SCH80	A105 Fig 206 H/U	n/a/50	100% R 100% M 100% V
Control Number 63	W.O.G	125	-50/300	188	Water	A420WPL6	0.125"	3"SCH80	A105 Fig 206 H/U	n/a/50	100% R 100% M 100% V
Control Number 64	W.O.G	125	-50/300	188	Water	A420WPL6	0.125"	3"&4" SCH80	A105 Fig 206 H/U	n/a/50	100% R 100% N 100% V
Control Number 65	W.O.G	125	-50/300	188	Water	A420WPL6	0.125*	3"&4" SCH80	A105 Fig 206 H/U	n/a/50	100% F 100% N 100% N
Control Number 66	W.O.G	125	-50/300	188	Water	A333-GR6	0.125*	3"&4" SCH80	A105 Fig 206 H/U	n/a/50	100% F 100% N 100% N
Control Number 67	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3"&4" SCH80	A105 Fig 206 H/U	n/a/50	100% F 100% N 100% V
Control Number 68	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	3"&4" SCH80	A105 Fig 206 H/U	n/a/50	100% I 100% I 100% I
Control Number 69	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	3"SCH40	A105 Fig 206 H/U	n/a/50	100% 100% 100%
Control Number 70	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	3"SCH40	A105 Fig 206 H/U	n/a/50	100% 100% 100%
Control Number 71	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	3"SCH40	A105 Fig 206 H/L	n/a/50	100% 100% 100%
Control Number 72	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	3"SCH4	0 A105 Fig 206 H/U	n/a/50	100% 100% 100%
Control Number 73	W.O.G	125	-50/300	188	Water	A333-GR6	0.125	5" 3"SCH4	0 A105 Fig 206 H/U	n/a/50	100% 100% 100%

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Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3"SCH40	A105	n/a/50	100% RT
Number 74									Fig 206 H/U		100% MT
Trumber 74			1								100% VT
Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3"SCH40	A105	n/a/50	100% RT
Number 75			i I						Fig 206 H/U		100% MT
144111001 73	Į.		}								100% VT
Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3"SCH40	A105	n/a/50	100% RT
Number 76			1					•	Fig 206 H/U		100% MT
Nulliber 70			1 I		l Ì						100% VT
Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125*	3"SCH40	A105	n/a/50	100% RT
Number 77			1 1		ł			!	Fig 206 H/U		100% MT
Number //			1 1								100% VT
Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3"SCH40	A105	n/a/50	100% RT
Number 78	W.O.G	1-0							Fig 206 H/U		100% MT
Nullibel /6			1 1								100% VT
Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3"SCH40	A105	n/a/50	100% RT
	W.O.G	120	1					ì	Fig 206 H/U		100% MT
Number 79			1 1								100% VT
Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3"SCH40	A105	n/a/50	100% RT
	W.O.G	123	-50/500	100		1.200 0111			Fig 206 H/U		100% MT
Number 80			1 1					1			100% VT
Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.125"	3"SCH40	A105	n/a/50	100% RT
	w.o.g	123	-50/500	100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11333 6110	1		Fig 206 H/U		100% MT
Number 81			1								100% VT
Cambral	W.O.G	125	-50/300	188	Water	A333-GR6	0.125*	3"SCH40	A105	n/a/50	100% RT
Control	w.o.d	123	-50/500	100	77 410.	71555 GRO			Fig 206 H/U		100% MT
Number 82			1		1		1				100% VT
Cambrol	W.O.G	125	-50/300	188	Water	A333-GR6	0.125*	3"SCH40	A105	n/a/50	100% RT
Control	w.U.G	123	-30/300	100	''' a.c.'	1055 010			Fig 206 H/U		100% MT
Number 83			1		l						100% VT
Ct1	WOC	125	-50/300	188	Water	A333-GR6	0.125"	3"SCH40	A105	n/a/50	100% RT
Control	W.O.G	125	-50/300	100	Water	71333-GRO			Fig 206 H/U		100% MT
Number 84			1		ı	1					100% VT
2 . 1	77.0.0	125	-50/300	188	Water	A333-GR6	0.125"	3"SCH40	A105	n/a/50	100% RT
Control	W.O.G	125	-30/300	100	Water	7333-GK0		3 50	Fig 206 H/U		100% MT
Number 85		1			1	1					100% VT
	"" 0 0	425	50/200	188	Water	A333-GR6	0.125"	3"SCH40	A105	n/a/50	100% RT
Control	W.O.G	125	-50/300	100	Water	A333-GRU	J	3 30	Fig 206 H/U		100% MT
Number 86		,					[1	1.6200120		100% VT
		405	50/200	100	Water	A333-GR6	0.125*	3"SCH40	A105	n/a/50	100% RT
Control	W.O.G	125	-50/300	188	Water	A333-UKO	0.123	3 301140	Fig 206 H/U	150000	100% MT
Number 87	İ		1				ļ	1	1.15200.00		100% VT
			10000	100	17/	4333 CBC	0.125*	3"SCH40	A105	n/a/50	100% RT
Control	W.O.G	125	-50/300	188	Water	A333-GR6	0.123	3 301140	Fig 206 H/U	150000	100% MT
Number 88			Į.		ł			1	116 200 120		100% VT
				455	 ,,, -	4420 11771 (0.125"	3"&4"	A105	n/a/50	100% RT
Control	W.O.G	125	-50/300	188	Water	A420 WPL6	0.125	SCH80	FIG 206 H/U	ט בישוו	100% MT
Number 84	1		1		1			SCHOOL	FIG 200 FI/O		100% VT
					 		0.405"	42001100	4105	n/a/50	100% RT
Control	W.O.G	125	-50/300	188	Water	A420 WPL6	0.125"	4"SCH80	A105	11/8/30	100% KT
Number 88			1	1		Į.		1	FIG 206 H/U	ĺ	100% MT
	1	1	1	I	1	1	1	1	1	ı	1 100 /0 V I

No.	Line No.	Spool No.	Dwg. No. (with Rev. No.)	Sub-contractor (Name)	AQP No. (if from Alberta)	Expiry (if from Alber	
		_					
			C .: 11	1 1 1 4	lated by the sub-	antua etan (a	
				ode work that was not comp rmation about the code work			
				tractor (e.g., hydrostatic test			
/a							
/a							
			Endorse certifica	oto (A? ou (D?			
	A. CERTIFICAT	TE OF COMPLIANCE			TE OF COMPLIAN	CE	
Signed by the subcontractor when supplying this certificate as a				Signed by the primary contract	ctor when supplying t	his certificate as	
Partial Data Report				Final	Data Report		
We	certify that the	statements in this	Data Report are	We coutiful that the st	otomonts in this	Data Pana	
	•	iterials, constructi	-	We certify that the stare correct and that p		_	
		•		1	·		
workmanship of the piping fabrication conform to the registered quality system and the applicable Piping				described in this Data Report was constructed in			
code	• •	,		accordance with the l		-	
Date				Codes Act and Regul		licable	
		Contrac	etor	ASME Piping Code(
				Date:Oct 3/2017	Coral Oilfield S		
D :	1 1 1 D	——————————————————————————————————————	Citu		Contract	°) /	
Print Authorized Representative's Name Signature			Riley Johnson				
This certificate is not valid unless it forms part of a Final Data Report signed by Primary Contractor			Print Authorized Representative's Name				
inal	Data Report s	igned by Primar	y Contractor				
		CI	POTIFICATE	OF INSPECTION			
		Ci	KIIFICALE				
I, the	undersigned, en	nployed by Haltec	Testing Inc.	have v	erified that all re-	quired	
exam	ination and testi	ng has been compl	eted, and inspected the	piping described in this con	nstruction data re	port to the	
exten	it necessary to be	e satisfied that it co	nforms to all applicab	le examination requirements	s of the Code and	is nining in	
engin	ieering design, a	ing state that, to the	Dest of my knowledge	e and belief, the contractor has. By signing this certificate	neither the insne	etor nor his	
accor	malover makes	Alberia Salety Cou	es Act and Regulations	erning the piping described	in this construction	on data renoi	
Furth	nipioyei iliakes o sermore neither	the inspector nor h	is or her employer sha	Il be liable in any manner fo	r any nersonal in	iury or	
nrone	erty damage or a	loss of any kind a	ising from or connecte	ed with this inspection.	any personal m	,,	
p. 0p.	or of the contract of the		<i>G</i>				
Date	: Oct 3/2017	<u> </u>		Date:			
Hal k	Ceith						
LIGI F	Owner's In	nspector Name (plea	se print)	ABSA Safety Coo	des Officer (plea	se print)	
	1 11 11 11	Parata Cana (blos	F		RNAL PIPING ONL		
И	LASTI	,					
v	Owner'	's Inspector Signa	ture:	ABSA Safety Cod	les Officer's Sign	ature	

Current version of this Form may be obtained from www.absa.ca

PRESSURE PIPING SPECIFICATION SHEET

PRESSURE PIPING SPECIFICATION SHEET

(For Construction/Repair/Alteration of Pressure Piping Systems Less Than or Equal to 500 Litres, Aggregate Internal Volume)

Contractor

Haltec Testing

Coral Oilfield Services Inc.

AQP: 1522

	Ma	aterial List			Piping Sketch (Refere	ence attached	drawings if appr	opriate)
Item Mat'l Spec. No. Description & Grade			Sch./ Rating	(use for recording RT No's. & Welder Symbols)				
ee	as Built drawings			SEE AS BUILT DRAWINGS				
Line No. Control#1-88	Design Pressure 125PSI	Design Temp. Min. / Max. -50F/300F	Corr. All.	Code ASME B31.1/B31.3 B31.3	Service (e.g., Normal, Cat. D, M, K) normal	Severe Cyclic Yes/No yes	Test Pressure 188 PSI	Test Medium H20
- OUIT 1-00								
4				ests must have (REV.2)	prior acceptance from A	BSA.)		
4	ocedure Specific MT / PT Extent % 100%MT		phy		Ultrasonic - Other NE Description / Extent 100% VISUAL	DE	other Requirem	ents
Welding Pro Numbers: Line No. Control#1-	ocedure Specific MT / PT Extent %	Radiogra Extent	phy	(REV.2) Hardness Testing	Ultrasonic - Other NE Description / Extent	DE		ents
Velding Provided Numbers: Line No. Control#1- 38	MT / PT Extent % 100%MT Inspectruractor: Heat Treatment	Radiogra Extent 100%R	phy	Hardness Testing N/A	Ultrasonic - Other NE Description / Extent	DE % C	n/a	ents
Velding Proved I	MT / PT Extent % 100%MT Inspectruractor: Heat Treatment	Radiogra Extent 100%R	phy	Hardness Testing N/A	Ultrasonic - Other NE Description / Extent 100% VISUAL t Weld Heat Treatmen	DE % C	n/a	ents
Nelding Proved I	MT / PT Extent % 100%MT Inspectruractor: Heat Treatment by Owner: by Contractor:	Radiogra Extent 100%R	phy	Hardness Testing N/A	Ultrasonic - Other NE Description / Extent 100% VISUAL t Weld Heat Treatmen	DE % C	n/a	ents
Velding Proved I	MT / PT Extent % 100%MT Inspectruractor: Heat Treatment by Owner: by Contractor:	Radiogra Extent 100%R	phy	Hardness Testing N/A	Ultrasonic - Other NE Description / Extent 100% VISUAL t Weld Heat Treatmen	DE % C	n/a	ents
Velding Proved I	MT / PT Extent % 100%MT Inspectruractor: Heat Treatment by Owner: by Contractor:	Radiogra Extent 100%R	phy	Hardness Testing N/A	Ultrasonic - Other NE Description / Extent 100% VISUAL t Weld Heat Treatmen	DE % C	n/a	ents

PRESSURE PIPING EXAMINATION CHECKLIST

NO.	FUNCTION	SIGNATURE OR INITIAL AND DATE		
	4570	Q.C. INSPECTOR	OWNER'S INSPECTOR	
1	DRAWINGS: ABSA registration over 0.5 Cu. M. Approved by Owner. Approved for Construction (signed & dated).	N/A		
2	ABSA Safety Codes Officer and Owner's Inspector notified.	N/A		
3	Registered Welding Procedure Specifications, Q.C. Manual and Forms available at site, Job File started.	OCT 0 2017		
4	Welders qualified for WPS's and have valid Performance Qualification cards. Welders Log completed. WPS reviewed with Welders.	OCT 077017		
5	Material checked against P.O., drawings, and specifications. Identification confirmed. Colour coding applied.	CT 022-9/17		
6	Sample of each Welder's work examined, including root spacing, alignment, cleaning, joint preparation, preheat and electrode control.	OCT 9 2)2017		
7	Nondestructive Examination completed. Reports and radiographs reviewed, signed by Level II or III, Radiograph I.D. detailed on drawings.	î (1 .70) 117		
8	Visual Examination of all completed welds. Welders I.D. stamped and recorded on drawings.	OCT 0 1 2047		
9		0 1 2017		
10	Each system checked against specifications and drawings before test, using Exhibit 20.3 and Exhibit 20.4.	OCT 0 1 2017 Z)	
11	All deficiencies recorded and signed off by Q.C.I. and Owner's Inspector before test.	OCT 0 1 2000		
12	Pressure Test checked. Gauge calibration verified, gauge #'s recorded.	QCT 0 1 2012		
13	System checked after test. Deficiencies recorded and corrected. (Exhibit 20.4)	OCT 0 1 2447)		
14	Pressure Piping Construction and Test Data Report (AB-83) prepared and signed by QCI and Owner's Inspector.	OCT 0 1 2019		
15	Completion of Construction Declaration form (AB-81) submitted to ABSA	N/A		
16	As built drawings accepted by Owner.	OCT 0 1 20)		