

Crescent Point

9-32-1-28w1

Firetube #726

- 24" x 20' x .500" Sivals Firetube repair
- 8'x30' Sivals SN# 117025 CRN# V2198.1234
- MAWP 75psi @ 230F



QUALITY CONTROL DOCUMENTS

July 2017

*Prepared by: McGillicky Oilfield
101 Sawyer Road, Box 843
Estevan, Saskatchewan S4A 2A7
Tel: (306) 634-8737 Fax: (306) 634-4575
mcgillickyoil@sasktel.net*

Repair/Alteration Report

TSK-1009

I. Report Information

☒ Repair ☐ Alteration

Vessel Boiler Data

Manufacturer: Sivalls Inc.	Serial No. 117025
C.R.N.: V2198.1234	Type / Model No.: Horizontal Treater
Design Pressure: 75 PSI	at 230°F Temperature
Diameter: 8'	Length: 30' Heating Surface:

II. Repair / Alteration Company Information

Company Name: McGillicky Oilfield Partnership	
Address: #101 Sawyer Road	Estevan , SK S4A 2A7
<small>Apt/Street</small>	<small>City/Prov</small> <small>Postal Code</small>
Quality Control Program Registration No.: QCP-0268-0002	Job No.: FT #726
Weld Procedure Specification No.(s): MOC-4 Rev.1	

III. Owner Information

Company Name: Crescent Point	Contact Person: Doug Davey
Address: Suite 2000 - 585 8th Ave. SW	Calgary , AB T2P 1G1
<small>Apt/Street</small>	<small>City/Prov</small> <small>Postal Code</small>
Location of Installation: 15-32-4-12 W2	

IV. Other Information

Complete the following, as applicable, when repair/alteration involves the item:

Shell Material Specification:	Thickness:
Head Material Specification:	Thickness:
Tube Sheet Specification:	Thickness:
Tube Material Specification: SA53B / A53B	Dia: 24" Thickness: 0.500"

Details of repair/alteration (complete 2nd page – supplementary page, if additional space is required):

We welded up some isolated pitting on the tube at the 12:00 position and a 1" crack on the support brace stack side as shown on SonicTec inspection report # FT-0024. Repair areas were baked out @600°F for 15 Minutes.

Non-destructive examination: MT / UT	
Hydrostatic test pressure shell: N/A	Tubes: N/A

IV. Other Information (continued)

Welder(s) Name(s): Blake Fee , Eric Chapman

Qualifications: F3 to F4

V. Statements to be made on completion of work

1. I certify that the statements made in this report are correct and that the repair / alteration conforms to the requirements of the Regulations Respecting the Design, Construction, Installation and Use of Boilers and Pressure Vessels.

Signed: Braden Hubick

Date: 06/28/2017

(MM DD YYYY)

For: McGillicky Oilfield Partnership

(Repair / Alteration Company)

2. I have inspected the repair / alteration described above and state that to the best of my knowledge and belief the repair / alteration had been completed in accordance with requirements of the Regulations Respecting the Design, Construction, Installation and Use of Boilers and Pressure Vessels.

Signed: Ryan Hogg

(Saskatchewan Inspector)

Date: 07/05/2017

(MM DD YYYY)

3. Saskatchewan inspector acceptance (when work not witnessed by Saskatchewan Inspector)

Report Received By: _____

Date: _____

(MM DD YYYY)

Details of repair/alteration (supplementary page, if additional space is required):

FT #726



Crescent Point

Pressure Equipment Repair/Alteration Procedure

Plant Name: Pierson Bat/09-32		(LSD): 09-32-001-28W1	Job #:
Work to be performed is a: <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Alteration		Date : 06-27-2017	
Vessel Jur #: NB 16539	Serial #: 117025	CRN: N-7780.123	
Manufacturer: Sivals Inc		Equipment Name: Horizontal Treater	
Authorized Inspector Notified:			
A.I. Location:	Name of AI Phone:	Date	Comments A.I. Inspection Waived <input type="checkbox"/>
Contractor Name & Address: McGillicky Oilfield Construction			
Contractor Quality Program Reg.#: QCP-0268-001		Expiry Date: July-2018	
Work Start Date: 06-27-2017		Contact: Braden Hubick Phone: 306-421-2837	
Code of Design	<input type="checkbox"/> ASME I	<input type="checkbox"/> ASME IV	<input checked="" type="checkbox"/> ASME VIII
Shell Side Process Fluid:	<input type="checkbox"/> Sweet	<input checked="" type="checkbox"/> Sour	<input type="checkbox"/> Low Temp
Tube Side Process Fluid:	<input type="checkbox"/> Sweet	<input checked="" type="checkbox"/> Sour	<input type="checkbox"/> Low Temp
Shell Side Design	MAWP: 75 PSI / 345	KPag @ 230 F / 93 °C	MDMT: °C
	<input type="checkbox"/> RT-1 <input type="checkbox"/> RT-2 <input type="checkbox"/> RT-3 <input checked="" type="checkbox"/> RT-4	PWHT: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Test Pressure: °C
Tube Side Design	MAWP: Atm	KPag @ °C	MDMT: °C
	<input type="checkbox"/> RT-1 <input type="checkbox"/> RT-2 <input type="checkbox"/> RT-3 <input type="checkbox"/> RT-4	PWHT: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Test Pressure: °C

Details of Repair/Alteration

Firetube has 25 locations along top of leg with pittings to 0.150" deep in 0.500" wall thickness tube. Attachment plate bracket on tube has a crack in the attachment weld. Perform Repair as Per CP P1.0: Firetube Repairs and Procedure P2.0: Build up of Pressure Retaining Wasted Areas.

Pre-heat weld areas on tube to 600F for 15 minutes as per G1 Guideline.

Repair weld on bracket as per McGillicky procedures. Lace weld areas of pittings as marked as per McGillicky procedures.

100% MPI to weld repair areas, 24 hours post welding.

Final Visual Inspection.

Non-Code repairs.

Material List


Item	Description	Size	Material & Grade	Sch/Rating	Qty



Crescent Point

Pressure Equipment Repair/Alteration Procedure

Repair Request and Engineering Specification

Repair Request by: Ryan Hogg	Sketch provided	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Request Reviewed & Accepted by Chief Inspector		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Engineering Design by:		Signature of Chief Inspector 2017-06-27	
The following Crescent Point Energy specifications form part of the requirements of this procedure.			
Spec Number	Name	Spec Number	Name
G1	Bakeout Procedure		
P1.0	Firetube Repair Procedure		
P2.0	Build up Pressure Retaining Areas		

Activity Responsibilities

The following tasks are the Responsibility of:	Crescent Point	Contractor	Comments
Design Submission to AI	<input type="checkbox"/>	<input type="checkbox"/>	
Jurisdictional Doc's- AB40/TSK-0001/1009	<input type="checkbox"/>	<input type="checkbox"/>	
Material Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Welding Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
NDE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Heat Treatment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Leak Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Welding Requirements

WPS #: MOC-4	PQR #: MOC-4-1
Min Preheat Temp: 10C	PWHT Required: <input type="checkbox"/> Yes (see PWHT Instruction Sheet) <input checked="" type="checkbox"/> No

Leak Test Requirements

<input type="checkbox"/> Hydro <input type="checkbox"/> Pneumatic <input type="checkbox"/> Service <input type="checkbox"/> Alternate (see Alternative Test Report)
Required Test Pressure:

Procedure Prepared by

Name: Ryan Hogg	Signature: _____	Phone #: 306-461-8322	Date: 06-15-2017
Crescent Point Field Contact: Doug Moberg		Phone #: 306-461-9279	

Attachments

The following Crescent Point Energy attached documents form part of the requirements of this Procedure.



Crescent Point

Pressure Equipment Repair/Alteration Procedure

Critical Job Activities

AIA: ABSA/Sask. Boilers Branch (The AIA may identify hold points by initialing the task(s) they would like to witness.) All activities are considered to be the responsibility of the Contractor and should be reflected/transferred to the required documentation referenced in their registered QA/QC Program Manual.				
No.	Activity	CPEC	Contractor	AI
1	Material checked against drawing/ bill of material		V	
2	Mill tests checked on weld fittings and pipe			
3	Threaded fittings checked for traceability/ identification			
4	Flange and fitting ratings check		V	
5	Degas heat treatment		V	
6	Fit up checked	H	V	
7	Welder's ID/ Qualifications checked	V	V	
8	In Process VT completed	H		
9	External inspection complete			
10	Radiographs reviewed			
11	Post weld heat treatment checked and chart verified/signed			
12	Radiography by:			
13	UT (only if requested) by:			
14	Other NDE (MPI, LPI) by: SonicTec Inspection Specify: MPI/RT	H	V	
15	Hardness testing completed			
16	Coating repairs			
17	Hydrostatic test complete			
18	External painting complete			
19	Affidavits/ Data reports complete			
20	Alternative testing completed and form signed off			
21	In-Service leak test completed	H		
22	Final Visual Acceptance	H		
	Document packages sent to Area Inspector AND Corporate Office			

H = Hold V = Verify

Quality Documents

The following documents along with this Pressure Equipment Repair/Alteration Procedure shall be completed by the approved contractor and the completed "Quality Job File" submitted to the In-Service Inspector. For Replacement-in-Kind work, documentation is maintained by the facility office.		
Document Name	Submitted for Review & Acceptance Pre-Construction	Developed By
WPS	MOC-4	McGillicky's
AQP	QCP 0268-001	McGillicky's
Bake-Out Procedure (sour service only)	G1 Guideline	CP
Bolting Procedure		CP

EXHIBIT K – BOILER AND PRESSURE VESSEL REPAIR/ ALTERATION TRAVELER

McGillicky Oilfield Partnership Ltd.

Company: Crescent Point	Location: 9-32-1-28 W1
Job No: FT #726	Vessel Type: 24" x 20' x .500" Wall Firetube
Serial No:	CRN:
Travel Sheet Revision No:	Travel Sheet Initiation By: Braden Hubick

SEQ	ITEM	COMMENTS	Q.C.M./ Q.C.R.	DATE	A.I. HOLD POINTS	A.I.	DATE	OWNER	DATE
1.	Repair Procedure approved.	Verbal From Ryan Hogg		Δ JUN 27 2017				RA	July 5, 17
2.	Release of Approved Drawing/ CRN.	N/A							
3.	Manuf. Data Report Verified.			Δ JUN 27 2017				RA	July 5, 17
4.	AI Notified.	Date: Routine Repair N/A		Δ JUN 27 2017				RA	July 5, 17
5.	WPS(s) Checked.	MOC-4 Rev.1	Δ-EC	Δ JUN 27 2017				RA	July 5, 17
6.	Welder(s) Qualified.		Δ-EC	Δ JUN 27 2017				RA	July 5, 17
7.	Thicknesses Verified and Recorded.	U/T Inspection 0.500" Nom.		Δ JUN 27 2017				RA	July 5, 17
8.	MTRs Checked.	N/A							
9.	Heat Numbers Recorded.	N/A							
10.	Hydrogen Bakeout	Temp 600°F Time 15 Minutes	DF	Jun 27, 2017				RA	July 5, 17
11.	Nozzle & Flange Rating Checked.	N/A							
12.	Nozzle Orientation.	N/A							
13.	Nozzles & Fittings Fit-Up Inspection.	N/A							
14.	Shell(s) & Head(s) Fit-Up Inspection.	N/A							
15.	Internals Checked.	N/A							
16.	Final Internal Inspection	Shell Side: N/A Tube Side: N/A							
17.	Final External Inspection.			Δ JUN 28 2017				RA	July 5, 17
18.	Weld Sizes Checked.			Δ JUN 28 2017				RA	July 5, 17
19.	Radiography.	N/A %							
20.	Other N.D.E.	<input checked="" type="checkbox"/> MT <input checked="" type="checkbox"/> UT <input type="checkbox"/> LPI		Δ JUN 28 2017				RA	July 5, 17
21.	Impact Tests.	N/A							
22.	Final Ext. Prior to P.W.H.T.	N/A							
23.	PWHT Chart Checked.	N/A							
24.	Hydrostatic Test.	Gauge #1: Gauge #2:							
25.	N.C.R.'S Closed.	N/A							
26.	Nameplate Installation.	Tube Sheet Stamped		Δ JUN 28 2017					
27.	Repair/ Alteration Report completed			Δ JUN 28 2017				RA	July 5, 17
28.									

The Authorized Inspector shall be presented with the Travel Sheet prior to repair/ alteration construction so that he can designate additional inspection points and/or Hold Points. Any revisions shall be marked with a delta symbol with revision number and described at the bottom of this page.

*Denotes an A.I. Inspection Point

** Denotes an A.I. Hold Point

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

(Alternate Form for Single Chamber, Completely Shop or Field Fabricated Vessels only)

* Revised

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

1. Manufactured and certified by SIVALLS, INC. 2200 EAST SECOND STREET ODESSA, TEXAS 79761
(Name and address of manufacturer)

2. Manufactured for Stock
(Name and address of purchaser)

3. Location of Installation Unknown
(Name and address)

4. Type: Horizontal 117025 V2198.1234 E1116700-7 16539 2010
(Horiz. or vert. tank) (Mfr's serial no.) (CRN) (Drawing no.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1. 2007
Year

A-08a NONE NONE
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA-516-70 .3125" 0.0" 8' 0" 30' 0" S/S
(Mat'l. (Spec. No., Grade) Nom. thickness (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: DBL Butt None 70 NA NA Single Butt None 70 3
Long. (Welded, DBL, Sngl., Lap. Butt) RT (Spot or Full) Eff. (%) HT temp. (°F) Time (hr) Girth (Welded, DBL, Sngl., Lap. Butt) R.T. (Spot or Full) Eff. (%) No. of Courses

8. Heads: (a) Mat'l. SA-516-70 (b) Mat'l. SA-516-70
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) END	.4375"	0.0"	96"	5-7/8"					CONCAVE
(b) END	.4375"	0.0"	96"	5-7/8"					CONCAVE

If removable, bolts used (describe other fastenings) N/A
(Mat'l., Spec. No., Grade, Size, No.)

9. MAWP: 75# NA psi at max. temp. 230 NA °F
(internal) (external) (internal) (external)

Min. design metal temp. -20 °F at 75# psi. Hydro., pneu., or comb test pressure 98# psi.

Proof Test NA

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
Inlet	1	6"	RFSO 150# SA-105/Pipe	SA-106-B	.2870"	Inherent	Welded	Shell
Outlets	3	2-3" & 1-4"	RFSO/RFWN 150# SA-105/Pipe	SA-106-B	.216"	Inherent	Welded	Shell Head
Drain	1	3"	RFWN 150# SA-105/Pipe	SA-106-B	.216"	Inherent	Welded	Shell
Pressure Relief/Safety Head	2	3"	RFSO 150# SA-105/Pipe	SA-106-B	.216"	Inherent	Welded	Shell
Misc	13	1/2"	Long & Full Couplings	SA-182-F304L	3000#	Inherent	Welded	Shell
Manway W/ Blind	2	18"	1-1/16" SA-516-70 Plate FLG/Pipe	SA-106-B	.500 plate	Inherent	Welded	Shell Head
Misc	5	1"	Long & Full Couplings	SA-182-F304L	3000#	Inherent	Welded	Shell Head
Misc	4	1 1/2"	Long Coupling	SA-182-F304L	3000#	Inherent	Welded	Head
Misc	7	6-4" & 1-8"	RFSO 150# SA-105/Pipe	SA-106-B	.237" & .500"	Inherent	Welded	Shell Head

11. Supports: Skirt No Lugs NA Legs 2 Other Saddles Attached Welded Shell
(Yes or no) (No.) (No.) (Describe) (Where and How)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report: N/A

(2) 33-3/8" x 65-3/8" FTBE MTG. 2" SA-516-70N Plate Neck 1.250" SA-516-70N Plate Neck INHERENT Welded Head
(Name of part, item number, Mfr's name and identifying stamp)

APPLICABLE PARAGRAPHS UG-20(f) Not for Lethal Service UCS-66(c)

VESSEL IS A HORIZONTAL TREATER TYPE CW

JOB ORDER: 70042

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 Code for Pressure Vessels, Section VIII, Division 1, "U" Certificate of Authorization no. 4281 expires 6-02-2014.

Date July 21, 2010 Co. name Sivalls, Inc. Signed Wayne Shop
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Sivalls, Inc. at Odessa, Texas

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or province of Texas and employed by HSB CT

of Connecticut have inspected the component described in this Manufacturers' Data Report on July 21, 2010 and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturers' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date September 21, 2011 Signed David E. Nore Commissions Nat'l Bd. 12612A Tx. 1723
(Authorized Inspector) (Nat'l Bd. (incl. endorsements), State, Prov., and No.)

Exhibit T – CONTRACT REVIEW

McGillicky Oilfield Partnership Ltd.

Job Number: FT #726 Date: June.27/17

Owner Company: Crescent Point

Location: 9-32-1-28 W1

Description of job: Firetube pitting lace weld repair and support bracket weld repair

RESPONSIBLE FOR QUALITY CONTROL FUNCTIONS	OWNER	CONTRACTOR
Materials Receiving Inspection		
Materials	✓	
Welder Supervision		✓
Welders Records		✓
Site Control of NDE		✓
Witness of Pressure Tests	✓	
Preparing Quality Control Records		✓
Heat Treatment		✓
Design Submissions	✓	
<u>Drawings</u> <u>As Builts</u>		✓

Under TSASK Design and Construction Regulations, any Owner/Subcontractor who assumes responsibility for any quality control function must have their own Authorized Quality Control Program for performing these functions.

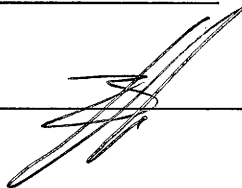
Code of construction: ASME B31.1 _____ B31.3 _____ Fluid service category: _____

Other: ASME VIII Div.1 2015 CSA Z662 Fabrication: _____

Owner's Representative Ryan Hogg / Doug Moberg

Date Contracted: June.27/17

QCM or QCR: _____

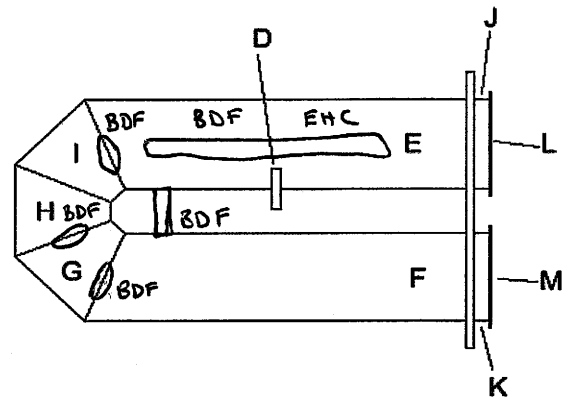
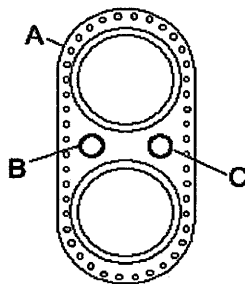


Date June.27/17

FIRETUBE REPORT



Firetube # 726	Type Of Vessel Tube Built For Sivalls Inc.	Vessel Size 8' x 30'	Tube Dia. 24"	Construction New ✓ Repair			
Customer Crescent Point		Location 9-32-1-28 W1		Date Tube Completed June.28/17			
Welder's Name		Stamp		NDE Test (Type)		Date Of Test	
Blake Fee		BDF		MT/UT Initial		June.27/17 FT-0024	
Eric Chapman		EHC		MT Final		June.28/17 FT-0027	
				MT Final (Bent Breeching)		June.29/17 FT-0028	
Item	Description	length	Width/OD	Thk or SCH	Material Type	Heat #	New/Existing/NA
A	Flange						Existing
B	Anode Nozzle						N/A
C	Anode Nozzle						N/A
D	Anode Bracket						N/A
Item	Description	Outside Length	Inside Length	Thk or SCH	Material Type	Heat #	New/Existing/NA
E	Total Leg Length						Existing
F	Total Leg Length						Existing
G	Mitred End						Existing
H	Mitred End						Existing
I	Mitred End						Existing
Item	Description	Length to flange face	Thk or SCH	Material Type	Heat #	New/Existing/NA	
J	Breeching Ext.					Existing	
K	Breeching Ext.					Existing	
Item	Description	O.D.	Flange Type	Material Type	Heat #	New/Existing/NA	
L	Breeching					Existing	
M	Breeching					Existing	
Item	Description	Width					
N	Leg Spacing						



Comments

We welded up some isolated pitting on the tube at the 12:00 position and a 1" crack on the support brace stack side as shown on SonicTec inspection report # FT-0024. Repair areas were baked out @600°F for 15 Minutes.

COMPANY

Crescent Point

Location

9-32-1-28 W1

Job #

FT #726

BAKE OUT RECORDING FORM

	DESCRIPTION	TIME SPECIFIED TEMP. REACHED	END TIME	DATE	SIGNATURE
1	Firetube Pitting	12:50pm @ 600°F	1:05pm	June, 27, 17	Blade Jan
2	Firetube Support Brace	1:20pm @ 600°F	1:35pm	June, 27, 17	Blade Jan
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					







Estevan, Sask
Ph: (306)421-3312
Fax: (306)634-1242
Email: sonictec@sasktel.net

FT **0027**

Client:	Crescent Point
Date:	June 28, 2017
Location:	09-32-001-28 W1M
Field:	Pierson
Tube Size:	20' x 24"
Tube #:	MOC 726
Treater Info:	Sivalls, SN: 117025
Inspected at:	McGillicky's

Codes and Standards: Codes ASTM E709 Standards ASME VIII Still Procedure SI-MT-02 Rev 0

Other	<input checked="" type="checkbox"/> Three Section Mitred Return Bend	Initial Inspection	Ref. Report	FT-0024
		<input checked="" type="checkbox"/> Flange Prep/Repairs	Ref. Report	
		<input type="checkbox"/> Final Inspection		

Flange Thickness: 1.625" Flange Orientation: ☒ Horizontal ☐ Vertical

Techniques and Equipment: ☒ MT ☐ 38 DLP ☐ UT/Water Mixture

AC Yoke: Y1 SN: 1731 Cal Date: June 27, 2017 Pie Gauge SN:

UT Equipemnt: SN: Cal Date: Probe SN: Mhz: Inch:

5 Step Cal Block .100 - .500 SN:

Notes: ☒ MT - Acceptable, no indications at time of inspection

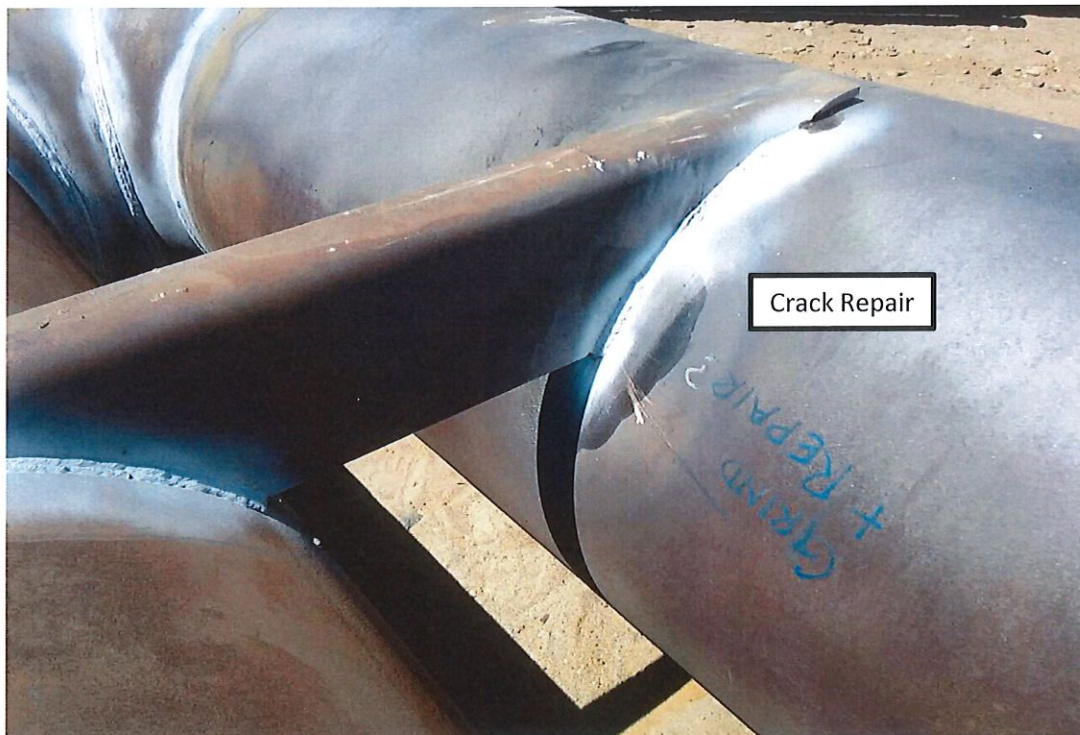
MT - Lace Welds on Pits, Externally on U-Tube at 12:00

MT - 1" Crack Repair on Support Bracket on Stack Side

.001"	Stack Leg				Burner Leg				Tube Nominal:	Time
	3	6	9	12	3	6	9	12		
A									UT Min:	2
B										Km's
C										Con
D									UT Notes	2
E										
F										
G									Client Contact:	Doug Moberg/Ryan Hogg
H									Client Phone:	
I									Client Signature:	
J									Level II Tech:	Wayne Naka CGSB#: 12597
K									Technician:	CGSB#:
									Level II Signature	Wayne Naka

McGILICKY
FIELD
QCM / QCR APPROVED
JUN 29 2017
DATE:
SIGN:

Client	Crescent Point	Location:	09-32-001-28 W1M	Date:	June 28, 2017	FT	0027
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Estevan, Sask
Ph: (306)421-3312
Fax: (306)634-1242
Email: sonictec@sasktel.net

FT **0028**

Client:	Crescent Point
Date:	June 29, 2017
Location:	09-32-001-28 W1M
Field:	Pierson
Tube Size:	20' x 24"
Tube #:	MOC 726
Treater Info:	Sivalls, SN: 117025
Inspected at:	McGillicky's

Codes and Standards: Codes ASTM E709 Standards ASME VIII Still Procedure SI-MT-02 Rev 0

Other	<input checked="" type="checkbox"/> Three Section Mitred Return Bend	Initial Inspection	Ref. Report	FT-0024
		<input checked="" type="checkbox"/> Flange Prep/Repairs	Ref. Report	FT-0027
		<input type="checkbox"/> Final Inspection		

Flange Thickness: 1.625" Flange Orientation: ☒ Horizontal ☐ Vertical

Techniques and Equipment: ☒ MT ☐ 38 DLP UTX/Water Mixture

AC Yoke: Y1 SN: 1731 Cal Date: June 29, 2017 Pie Gauge SN: _____

UT Equipemnt: SN: _____ Cal Date: _____ Probe SN: _____ Mhz: _____ Inch: _____

5 Step Cal Block .100 - .500 SN: _____

Notes: ☒ MT - Acceptable, no indications at time of inspection

MT - Bent Breaching Flange on Burner Side after Straightening

.001"	Stack Leg				Burner Leg				Tube Nominal:	Time
	3	6	9	12	3	6	9	12		1
A									UT Min:	Km's N/A
B										Con 2
C									UT Notes	
D										
E										
F									Client Contact:	Doug Moberg/Ryan Hogg
G									Client Phone:	
H									Client Signature:	
I									Level II Tech:	Wayne Naka CGSB#: 12597
J									Technician:	CGSB#: _____
K									Level II Signature	<i>Wayne Naka</i>

Client	Crescent Point	Location:	09-32-001-28 W1M	Date:	June 29, 2017	FT	0028
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Estevan, Sask
Ph: (306)421-3312
Fax: (306)634-1242
Email: sonictec@sasktel.net

FT 0024

Client:	Crescent Point
Date:	June 27, 2017
Location:	09-32-001-28 W1M
Field:	Pierson
Tube Size:	20' x 24"
Tube #:	N/A
Treater Info:	Sivalls, SN: 117025
Inspected at:	McGillicky's

Codes and Standards: Codes ASTM E709 Standards ASME VIII Still Procedure SI-MT-02 Rev 0

Other ☒ Three Section Mitred Return Bend

☒ Initial Inspection Ref. Report _____
☐ Flange Prep/Repairs Ref. Report _____
☐ Final Inspection

Flange Thickness: 1.625" Flange Orientation: ☒ Horizontal ☐ Vertical

Techniques and Equipment: ☒ MT ☒ 38 DLP UTX/Water Mixture

AC Yoke: Y1 SN: 1731 Cal Date: June 27, 2017 Pie Gauge SN: _____
UT Equipemnt: SN: 171488104 Cal Date: May 12, 2017 Probe SN: 1098343 Mhz: 7.5 Inch: 1/4"
5 Step Cal Block .100 - .500 SN: 052117

Notes: ☒ MT - Acceptable, no indications at time of inspection

MT - All accessible welds

1. 1" crack on support brace on Stack side

McGILICKY OILFIELD QCM / QCR APPROVED

DATE: JUN 28 2017

SIGN: _____

.001"	Stack Leg				Burner Leg				Tube Nominal:	Time
	3	6	9	12	3	6	9	12		
A	488	487	478	478					.500"	3
B	484	506	494	485					.466"	N/A
C	486	492	481	480						Con 3
D	505	468	474	490					UT Notes Isolated pitting on U-Tube at 12:00 externally	
E	511	505	499	506					.060"-.150" deep approx .335" minimum	
F	496	496	504	512					Client Contact: Doug Moberg/Ryan Hogg	
G					507	497	494	507	Client Phone: _____	
H					497	515	489	488	Client Signature: _____	
I					500	509	510	509	Level II Tech: Wayne Naka	CGSB#: 12597
J					495	492	500	520	Technician: TJ Babyak	CGSB#: 19097
K					506	509	466	470	Level II Signature: <i>Wayne Naka</i>	

Client	Crescent Point	Location:	09-32-001-28 W1M	Date:	June 27, 2017	FT	0024
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Client	Crescent Point	Location:	09-32-001-28 W1M	Date:	June 27, 2017	FT	0024
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Welder's Licence

No : **026506**

Pipe Tested Class : **M**
Groove Weld
Ticket

Blake Fee

This pressure welder's licence authorizes to weld on pressure equipment within the Province of Saskatchewan and is a record that the holder has been tested in accordance with ASME Section IX. This licence may be revoked at any time by the request of the Inspector or if the holder has not welded with a process during a period of 6 months.


Inspector

Name:	Blake Fee		Weld Symbol :	BDF
Process(es) QW350-357 (QW416):	SMAW	SMAW	Material P No. QW403.18 and QW423.1:	P1-15F P34,P4x
Filler Metal F No. QW404.15 and QW433:	F3	F4	Minimum Pipe O.D. QW303 / 403.16:	25 mm
Max Deposited Weld Metal(mm) QW404.30:	6	MAX	Weld Progression QW405.3:	Upward
Backing QW- 408.8 or QW402.4:	None	Metal	Positions Qualified QW461.9:	
			Groove	Fillet
Current Type / Polarity QW409.4:	ANY	ANY	ALL (6G)	ALL (6G)

SK ID No. : **002562**

Expires On: **08-Mar-2019**

Welder's Licence

No : **024889**

Pipe Tested Class : **M**
Groove Weld
Ticket

Eric Chapman

This pressure welder's licence authorizes to weld on pressure equipment within the Province of Saskatchewan and is a record that the holder has been tested in accordance with ASME Section IX. This licence may be revoked at any time by the request of the Inspector or if the holder has not welded with a process during a period of 6 months.

[Signature]
Ghahremani
Inspector

Name: **Eric Chapman**

Weld Symbol : **EHC**

Process(es) QW350-357 (QW416):	SMAW	SMAW	Material P No. QW403.18 and QW423.1:	P1-15F P34,P4x
Filler Metal F No. QW404.15 and QW433:	F3	F4	Minimum Pipe O.D. QW303 / 403.16:	25 mm
Max Deposited Weld Metal(mm) QW404.30:	6	16	Weld Progression QW405.3:	Upward
Backing QW- 408.8 or QW402.4:	None	Metal	Positions Qualified QW461.9:	
			Groove	Fillet
Current Type / Polarity QW409.4:	ANY	ANY	ALL (6G)	ALL (6G)

SK ID No. : **004166**

Expires On: **18-May-2018**



Natural Resources
Canada

Ressources naturelles
Canada



Name/
Nom **Wayne Isamu Naka**
Reg. No. /
No. matricule **12597**
Issue Date/
Date d'émission **2017/01/07**

This card does not identify the stated individual to be an employee or representative of Natural Resources Canada, Government of Canada.
Cette carte n'identifie pas l'individu d'être un employé ou un représentant de Ressources naturelles Canada, Gouvernement du Canada

Corrective lenses for (X) near (X) far vision.

Verses correctifs pour la vision de (X) près (X) distance.

Signature :



Wayne Naka



Natural Resources
Canada

Ressources naturelles
Canada

Certified to / Certifié selon : CAN/CSG-48.9712

12597

Method Méthode	Level Niveau	Sector Secteur	Cert. Date Date cert.	Date recert. Date recert.	Expires Expiration
MT	2	EMC	2006/04/03		2021/07/15
PT	2	EMC	2006/04/03		2021/07/15
UT	2	EMC	2007/01/02		2021/07/15

For verification of certification status, policies and definitions, visit website
<http://nrcan.gc.ca/> Pour la vérification de la certification, les politiques, et les définitions,
visitez le site web <http://nrcan.gc.ca/>

Manager, Certifying Agency
Gestionnaire de certification

EXHIBIT O - WELDER'S LOG**McGillicky Oilfield Construction Ltd.****P.O. Box 843 Estevan, Saskatchewan S4A 2G1 Phone (306) 634-8737 (Business, (306) 634-4775 (Fax)****WELDER'S LOG**

Welder's Name	Symbol	Process	WPS Qualified	"P" #	"F" #	Position	Thickness Range	<6 month Continuity (as per QW-322)	Expiry
Kevin Barker	KMB	SMAW SMAW	MOC-1 MOC-4 MOC-5 MOC PL-100	P1- 15F P34 P4X	F3 F4	ALL	6.35MM MAX	Sept. 10/2017	Aug. 24/17
Eric Chapman	EHC	SMAW SMAW	MOC-1 MOC-4 MOC-5 MOC PL-100	P1- 15F P34 P4X	F3 F4	ALL	6MM 16MM	Sept. 10/2017	May 18/18
Justin Chappel	JEC	GTAW SMAW	MOC-2 MOC-3	P1- 15F P34 P4X	F6 F5	ALL	6MM MAX	Sept. 10/2017	Feb. 24/18
Justin Chappel	JEC	SMAW SMAW	MOC-1 MOC-4 MOC-5 MOC PL-100	P1- 15F P34 P4X	F3 F4	ALL	6MM MAX	Sept. 10/2017	Feb. 24/18
Blake Fee	BDF	SMAW SMAW	MOC-1 MOC-4 MOC-5 MOC PL-100	P1- 15F P34 P4X	F3 F4	ALL ALL	6MM 16MM	Sept. 10/2017	March 8/2019
Brad Graham	BDG	SMAW SMAW	MOC-1 MOC-4 MOC-5 MOC PL-100	P1- 15F P34 P4X	F3 F4	ALL ALL	6MM 16MM	Sept. 10/2017	May 4/2018
Dustin Graham	DG	SMAW SMAW	MOC-1 MOC-4 MOC-5 MOC PL-100	P1- 15F P34 P4X	F3 F4	ALL ALL	6MM 16MM	Sept. 10/2017	June 7/2019

EXHIBIT O - WELDER'S LOG

McGillicky Oilfield Construction Ltd.

P.O. Box 843 Estevan, Saskatchewan S4A 2G1 Phone (306) 634-8737 (Business, (306) 634-4775 (Fax)

WELDER'S LOG

Welder's Name	Symbol	Process	WPS Qualified	"P" #	"F" #	Position	Thickness Range	<6 month Continuity (as per QW-322)	Expiry
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Ian Sedor	IPS	SMAW SMAW	MOC-1 MOC-4 MOC-5 MOC PL-100	P1- 15F P34 P4X	F3 F4	ALL ALL	6MM MAX	Sept. 10/2017	Sept. 14/18
Lee Schaff	LDS	SMAW SMAW	MOC-1 MOC-4 MOC-5 MOC PL-100	P1- 15F P34 P4X	F3 F4	ALL (2G&5G)	6MM 16MM	Sept. 10/2017	Apr. 5/19
Tyce Mutton	TLM	SMAW SMAW	MOC-1 MOC-4 MOC-5 MOC PL-100	P1- 15F P34 P4X	F3 F4	ALL ALL	6MM 16MM	Sept. 10/2017	Sept. 29/17
Cory Stepp	CWS	SMAW SMAW	MOC-1 MOC-4 MOC-5 MOC PL-100	P1-15F P34 P4X	F3 F4	ALL ALL	6MM MAX	Sept. 10/2017	May 31/2019
Cory Stepp	CWS	GTAW SMAW	MOC-2 MOC-3	P1-15F P34 P4X	F6 F5	ALL ALL	6MM MAX	Sept. 10/2017	May 31/2019