

Travel Sheet

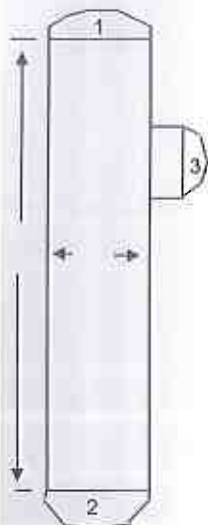
Authorized Inspector to be given travel sheet prior to construction so that he can indicate hold points and inspection points.

"H"-Hold Point, "I"- Inspection Point, "R"-Review "W"- Witness Point

Hold Points established - Sign & Date

(Authorized Inspector)

Vessel Serial #		13067		Shop Dwg: V85-05		(A) #					
Vessel Title:		8" Fuel Gas Scrubber		CRN #		F6388.231		CRN Dwg:		V85-05	
ITEM			COMMENTS		AUTH Insp., Hold Rev., Witness POINTS		DATE FUNCTION COMPLETE & INSPECTORS INITIALS				
							QC INSPECTOR		AUTHORIZED INSPECTOR		
APPROVED DRAWING							March 17, 2014		②		
CALCULATIONS ON FILE							March 17, 2014		②		
MATERIAL CHECKED AGAINST DRAWING, MATERIAL LIST							March 17, 2014		②		
MTR'S CHECKED							March 17, 2014		②		
VESSEL LAYOUT							March 18, 2014		②		
NOZZLES		ORIENTATION						March 18, 2014		②	
& FITTINGS		RATINGS						March 18, 2014		②	
FIT		NOZZLES&FITTINGS						March 18, 2014		②	
UP		SHELL & HEAD						March 19, 2014		②	
INTERNALS (tray, baffles, etc)							March 18, 2014		②		
INTERNAL INSPECTION							March 18, 2014		②		
MATERIAL INSPECTION REPORT							March 20, 2014		②		
WELD SIZES							March 19, 2014		②		
WELDERS I.D.							March 19, 2014		②		
EXTERNAL AFTER COMPLETION OF ALL WELDING							March 19, 2014		②		
RADIOGRAPHS											
OTHER N.D.E.											
IMPACT TESTS											
POST WELD HEAT TREATMENT			YES: NO: ✓ ②								
EXTERNAL BEFORE PWHT											
PWHT CHART CHECKED											
NAMEPLATE							March 21, 2014		②		
HYDROSTATIC TEST							March 21, 2014		②		
DATA REPORT							March 21, 2014		②		
NONCONFORMANCES											



		SPECIFICATIONS		HEAT NUMBER	VERIFIED THICKNESS
SHELL	C1	SA-106-B		1233174V ✓	8.1mm
	C2				
HEADS	1	SA-234-WPB		2B7808 ✓	7.16mm
	2	SA-516-70		355730-92492 ✓	19.05mm
	3				
REPADS	1				
	2				
	3				
	4				
		SPECIFICATIONS		SIZE	SCHEDULE
NOZZLES					
FITTINGS		SA-105		1", 2", 3/4"	#3000 cplg.
TUBES					

8" Pipe
A106

HENGYANG VALIN STEEL
TUBE CO., LTD

THE CONCLUSION

[illegible]

RECEIVED
FEB 10 1964
U.S. AIR FORCE
HEADQUARTERS
WASHINGTON, D.C.

8" Sch. 40 Cap
#2087808

117092

PURCHASER: SEYBOLD
STANDARD: ASTM A234 WPB-10
ASME SA234 WPB-04

MATERIALS: JIS G3103 SB410/ASTM A515 Gr.55
INSPECTION SPEC.: ASME B16.9 - 09



INSPECTION CERTIFICATE

INDUSTRIES CO., LTD.

8, MEI-CHUNG RD. NING-SUNG,
KAOHSIUNG KIEN 83301 TAIWAN
TEL: 886-77310527-8
FAX: 886-77315987

DATE: 2012-05-21

ORDER NO: 7005248/1793793

P.I. NO: 11152

CERTIF. NO: 199

ACCORDING TO EN10204/DIN50049/3.1

ITEM NO.	PRODUCT & SIZE	QUANTITY PCS	MFG NO.	VISUAL & DIMENSIONAL INSPECTION	HARDNESS MAX 197 HB	HEAT TREATMENT (NOTE)	MAGNETIC PARTICLE EXAMINATION	IMPACT TEST (J)
1	CAP 4" STD	100	1E083	GOOD	149 - 169	N		
2	CAP 4" STD	50	2F505	GOOD	149 - 169	N		

NOTE: A: HOT FORMED WITH FINAL TEMPERATURE BETWEEN 520C-580C AIR COOLING.
N: NORMALIZING AT TEMPERATURE 880C X 0.5 HR AIR COOLING.

NACE MR-01-75-03/ISO15156.2 & NACE MR 0103-03: 2015 FACTORY

WE HEREBY CERTIFY THAT THE PRODUCT DESCRIBED HEREIN HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE SPECIFICATIONS CONCERNED AND ALSO WITH THE PURCHASER'S REQUIREMENTS AND THAT THE TEST RESULTS SHOWN HEREIN ARE CORRECT.

On E Lan

MANAGER OF Q.A. DEPT.



edmonton exchanger
& manufacturing ltd.

CERTIFICATE OF COMPLIANCE

5545-89 Street Edmonton, Alberta Canada T6E 6W0

www.edmontonexchanger.com

tel 780.468.6722 • QC fax 780.466.4668 • sales fax 780.466.5155

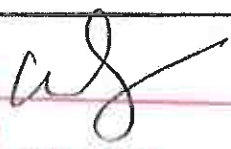
Customer RJV GASFIELD LTD.	PO 2976	Work Order C99295 Date 2013/06/07 Colpr 41523	Page 1 of 1
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Item#	Description	Qty	Heat	Brinell Hardn.
P99295-1	DISC(S) - 0.7500" NOM X 12" OD (Material Spec: SA 516-70 Normalized) Conforms to NACE MR0175 / ISO 15156-2 2009 Annex A Conforms to NACE MR0103 2007	6	G4160-073310210	HTH
		8	355730-92486	HTH
		12	355730-92492	HTH
		11	58180-014	HTH
		13	G4160-073310206	HTH

Brinell Equipment: Newage Calibrated Pin
Brinell Hardness Tester

Material being supplied conforms to the latest ASME Code Section II, Part A, 2010 Edition, Addenda July 1, 2011. All welders and procedures are qualified to ASME Code Section IX.

Supplementary Examination - Items

Checked By 
Conforms to
ASME Section VIII, Div. 1
2011a Edition
1 JUL 10 2013 Date



edmonton exchanger
& manufacturing ltd.

CERTIFICATE OF COMPLIANCE

MTR List

5545-89 Street Edmonton, Alberta Canada T6E 5W9 www.edmontonexchanger.com tel 780.468.6722 • QC fax 780.466.4666 • sales fax 780.466.5155

Customer RJV GASFIELD LTD. po 2976 Work Order C99295 Date 2013/06/07 Coils 41523 Page 1 of 1

MTR ID	Pages	Heat#	Thickness	Material Grades
16020	7	355730-92486	.75"	SA 516-70 N
		355730-92492	.75"	SA 516-70 N
17400	8	58180-014	.75"	SA 516-70 N
17418	5	G4160-073310206	.75"	SA 516-70 N
		G4160-073310210	.75"	SA 516-70 N

Heat#	Material Grades	MTR ID
355730-92486	SA 516-70 N	16020
355730-92492	SA 516-70 N	16020
58180-014	SA 516-70 N	17400
G4160-073310206	SA 516-70 N	17418
G4160-073310210	SA 516-70 N	17418

QM-System: Certification as per ISO 9001



Erläuterungen siehe Rückseite/Explications voir au verso/See reverse for explanations (www.dillinger.de/certificate)

A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004		A10 Advice of dispatch No./ Date of dispatch	A09 Manufacturer's order/ A03 Certificate No.	Shoot
INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+A1:1995 + AS PER ISO 10474:1991		380983-27.02.11	362037-003	1/...
MATERIAL TEST REPORT (MTR)				
A05 Established inspecting body	A06 Purchaser	B01 Product		
DH	EDMONTON STEEL, EDMON	HOT ROLLED PLATES		
B02 Steel design: SA516-70				
B03 Any suppl. requirements ASME-II-A:10				
DIL-HUE-2:R31-2010-11-22				
Final receiver EDMONTON STEEL, EDMON				
SA20-S5				



A01-A99 Further commercial information - Concession requests

B14 Item No.	B07.2 Heat No.	B07.1 Rolled plate / Test No.	B16 Concession request no.	Date
09	354638	54388-01	1-HQVEN	24.01.11

B01-B99 Description of the product

B14 Item No.	B08 Number of pieces	B09 Thickness	B10 Width	B11 Length	B12 Theoretical mass: KG	B04 Product delivery condition	B07.2 Heat No.	B07.1 Rolled plate / Test No.	A09 Purchaser article number
04	1	0,7500 x	150,00000 x	450,00000 x	6512 N		355730	92486-01	
04	1	0,7500 x	150,00000 x	450,00000 x	6512 N		355730	92486-02	
04	1	0,7500 x	150,00000 x	450,00000 x	6512 N		355730	92486-03	
04	1	0,7500 x	150,00000 x	450,00000 x	6512 N		355730	92492-01	
04	1	0,7500 x	150,00000 x	450,00000 x	6512 N		355730	92492-02	
04	1	0,7500 x	150,00000 x	450,00000 x	6512 N		355730	92492-03	
**	6				39072				
07	1	1,0000 x	150,00000 x	450,00000 x	8683 N		355730	92508-02	
07	1	1,0000 x	150,00000 x	450,00000 x	8683 N		355730	92508-03	
**	2				17366				
09	1	1,1250 x	97,00000 x	480,00000 x	6738 N		354638	54388-01	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N		355728	93534-01	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N		355728	93534-02	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N		355728	93603-01	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N		355728	93603-02	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N		355730	92371-03	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N		355730	92483-01	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N		355730	92483-03	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N		355732	92230-01	

A04 201202203 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.

			AG der Dillinger Hüttenwerke Postfach 1588, D-66748 Dillingen/Saar Inspection department
	B. BALDAUF Test House Manager	Inspector's stamp	Date 28.02.11 Page 1

QM-System: Certification as per ISO 9001



Erläuterungen siehe Rückseite/Explications voir au verso/See reverse for explanations (www.dillinger.de/certificate)

A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004		A10 Achivo of dispatch No./ Date of dispatch	A08 Manufacturer's order/ A05 Certificate No.	Sheet
INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+A1:1995 + AS PER ISO 10474:1991		380983-27.02.11	362037-003	2/...
MATERIAL TEST REPORT (MTR)				
A05 Established inspecting body	A06 Purchaser	A07.1 No.	A07.2 No.	
DH	Final receiver	EDMONTON STEEL, EDMON	EDMONTON STEEL, EDMON	HOT ROLLED PLATES
B02 Steel design. SA516-70		SA20-S5		
B03 Any suppl. requirements		ASME-II-A:10 DIL-HUE-2-R31-2010-11-22		

B01-B99 Description of the product									
B04 Item No.	B08 Number of pieces	B09 Thickness	B10 Width	B11 Length	B12 Theoretical mass	B04 Product delivery condition	B02 Heat No.	B07.1 Rolled plate No./ Test No.	A09 Purchaser article number
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N	8405 N	355732	92230-02	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N	8405 N	355732	92230-03	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N	8405 N	355732	92290-02	
10	1	1,1250 x	121,00000 x	480,00000 x	8405 N	8405 N	355732	92290-03	
**	12				100860				
***	21				164036				

B04 Product delivery condition

ITEM NO.: 02,04-07,09-10

N: HT: 1670 GR.F +36 -27 GR.F

SOAKING TIME TO ATTAIN THE TARGET TEMPERATURE OVER THE WHOLE SECTION: 1-1,75 MIN/NM (25-45 MIN/INCH)

COOLING IN STILL AIR

B06 Marking of the product

ITEM NO.: 02,04-07,09-10

STEEL DESIGNATION SA516 70 MTLV SA516 60 MTLV

HEAT NO. / TRADEMARK / ROLLED PLATE NO.-TEST NO. / INSPECTOR'S STAMP

B07-B99 Further information about the product

ITEM NO.: 02,04-07,09-10

THICKNESS REDUCTION RATIO >= 3,0 IS FULFILLED (CF. A/SA20 PAR. 5.3)

A04	Z01/Z02Z03 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.		A01
			AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar (inspection department)
Manufacturer's mark		Inspector's stamp	Date
		B. BALDAUF Test House Manager	28.02.11
			PP 1

QM-System: Certification as per ISO 9001

Erläuterungen siehe Rückseite/Explications voir au verso/See reverse for explanations (www.dillingers.de/certificate)

A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004

INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+A1:1995 + AS PER ISO 10474:1991

MATERIAL TEST REPORT (MTR)



DILLINGER HÜTTE

A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004		A10 Advice of dispatch No./ Date of dispatch		Sheet
INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+A1:1995 + AS PER ISO 10474:1991		380983-27.02.11		
MATERIAL TEST REPORT (MTR)				
A05 Established inspecting body	A06 Purchaser	A07.1 No.	ED10557-J1010-ER	3/...
DH	Final receiver	A07.2 No.		
B02/ Steel design.	SA516-70			
B03 Any suppl.	ASME-II-A:10			
requirements	DIL-HUE-2:R31-2010-11-22			
		SA20-S5		
		EDMONTON STEEL, EDMON		
		EDMONTON STEEL, EDMON		
		HOT ROLLED PLATES		
		B01 Product		
		362037-003		

C10-C29 Tensile test

B14 Item No.	B07.1 Heat No.	B05 Relplate/ Test No.	B05 Reference (heat) treatment	C01 C02/ C03 C01 Temp. GRF	C10 C11 KSI RP02	C12 RM	C13 A % LO=8IN	C14-C15
04	355730	92486		K1 Q	RT	50,0	27	
04	355730	92492		K1 Q	RT	50,8	26	
07	355730	92508		K1 Q	RT	49,3	29	
09	354638	54388		K1 Q	RT	49,3	31	
10	355728	93534		K1 Q	RT	49,3	31	
10	355728	93603		K1 Q	RT	49,6	31	
10	355730	92371		K1 Q	RT	49,7	29	
10	355730	92483		K1 Q	RT	50,0	33	
10	355732	92230		K1 Q	RT	49,4	29	
10	355732	92290		K1 Q	RT	50,0	29	

C30-C39 Hardness test

B14 Item No.	B07.2 Heat No.	B07.1 Relplate/ Test No.	B05 Reference (heat) treatment	C01 C02/ C03 C01 Temp. GRF	C10 C11 KSI RP02	C12 RM	C13 A % LO=8IN	C14-C15	C32 Mean value
04	355730	92486		K1	RT	50,0	27		147
04	355730	92492		K1	RT	50,8	26		147
07	355730	92508		K1	RT	49,3	29		150
09	354638	54388		K1	RT	49,3	31		148
10	355728	93534		K1	RT	49,3	31		144
10	355728	93603		K1	RT	49,6	31		149
10	355730	92371		K1	RT	49,7	29		146
10	355730	92483		K1	RT	50,0	33		145
10	355732	92230		K1	RT	49,4	29		146
10	355732	92290		K1	RT	50,0	29		143

A04 2012/02/203 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.



Manufacturer's mark

B. Balz



AG der Dillinger Hüttenwerke
Postfach 1581, D-66748 Dillingen/Saar
inspection department

B. SALDAUF
Test House Manager

Inspector's stamp

Date 28.02.11

PP 1

QM-System: Certification as per ISO 9001

Erläuterungen siehe Rückseite/Explications voir au verso/See reverse for explanations (www.dillinger.de/certificate)

A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004		A10 Advice of dispatch No./ Date of dispatch		A08 Manufacturer's order/ Certificate No.		Sheet	
INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+A1:1995 + AS PER ISO 10474:1991		380983-27.02.11		362037-003		4 / ...	
MATERIAL TEST REPORT (MTR)		A05 Established inspecting body		A07 Product		HOT ROLLED PLATES	
A05 Purchaser		Final receiver		A071 No.		A072 No.	
EDMONTON STEEL, EDMONTON		EDMONTON STEEL, EDMONTON		ED10557-J1010-ER			
SA516-70		SA20-S5					
B02 Steel design.		B03 Any suppl. requirements					
ASME-II-A:10		DIL-HUE-2-R31-2010-11-22					



C40-C49 Impact test

B14 Item No.	B07.2 Heat No.	B07.1 Roll plate/ Test No.	B05 Reference (heat) treatment	C01	C02	C03 Temp. GRF	C41 Width of test piece	C40 Type of test piece	C44 Testing method	C46 Energy	C45 Individual values AV=FTLB	C43 Mean value
04	355730	92486		K1	LV	-51		CHP-V		AV 195	122	125
04	355730	92492		K1	LV	-51		CHP-V		AV 77	193	114
07	355730	92508		K1	LV	-51		CHP-V		AV 114	146	128
09	354638	54388		K1	LV	-51		CHP-V		AV 134	137	136
10	355728	93534		K1	LV	-51		CHP-V		AV 24	100	114
10	355728	93603		K1	LV	-51		CHP-V		AV 81	105	101
10	355730	92371		K1	LV	-51		CHP-V		AV 103	115	113
10	355730	92483		K1	LV	-51		CHP-V		AV 100	119	108
10	355732	92230		K1	LV	-51		CHP-V		AV 103	132	115
10	355732	92290		K1	LV	-51		CHP-V		AV 127	109	117

C70-C99 Chemical composition % - Heat analysis

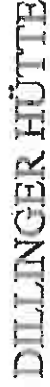
B07.2 Heat	C70	C	SI	MN	P	S	N	CU	MO	NI	CR	V	NE	SN	TI
354638	Y	0,171	0,372	1,19	0,009	0,0012	0,0070	0,030	0,012	0,030	0,037	0,000	0,000	0,001	0,002
355728	Y	0,175	0,372	1,18	0,009	0,0013	0,0070	0,036	0,021	0,059	0,045	0,000	0,000	0,002	0,003
355730	Y	0,178	0,372	1,17	0,008	0,0010	0,0069	0,034	0,010	0,033	0,042	0,000	0,000	0,002	0,003
355732	Y	0,181	0,357	1,16	0,007	0,0011	0,0076	0,039	0,010	0,040	0,039	0,000	0,000	0,003	0,002

B07.2 Heat	C70	B	CA	AL-T
354638	Y	0,0001	0,0026	0,034
355728	Y	0,0002	0,0028	0,034
355730	Y	0,0000	0,0017	0,034
355732	Y	0,0000	0,0019	0,033

A04		A07	
			
2012022003 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.		AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar Inspection department	
Manufacturer's mark		Inspector's stamp S. BALDAUF Test House Manager	
		Date 28.02.11 PP 1	

QM-System: Certification as per ISO 9001

Erläuterungen siehe Rückseite/Explications voir au verso/See reverse for explanations (www.dillinger.de/certificat)



A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004		A10 Advice of dispatch No./ Date of dispatch		A06/ Manufacturer's order/ A03 Certificate No.		Sheet	
INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+A1:1995 + AS PER ISO 10474:1991		380983-27.02.11		362037-003		5 / ...	
MATERIAL TEST REPORT (MTR)				B01 Product			
A05 Established inspecting body		EDMONTON STEEL, EDMONT		EDMONTON STEEL, EDMONT		HOT ROLLED PLATES	
DH		Final receiver		A07.1 No.		A07.2 No.	
B02/ Steel design.		SA516-70		ED10557-J1010-ER			
B03 Any suppl.		ASME-II-A:10					
requirements		DIL-HUB-2-R31-2010-11-22					

C94 Heat analysis Carbon equivalent / Alloying restrictions

B07.2 Heat	FO-02=	0,38	FO-51=	0,00	FO-55=	0,11	FO-78=	0,05	FO-91=	7,0
354638	FO-02=	0,39	FO-51=	0,00	FO-55=	0,16	FO-78=	0,07	FO-91=	6,7
355728	FO-02=	0,39	FO-51=	0,00	FO-55=	0,12	FO-78=	0,05	FO-91=	6,6
355730	FO-02=	0,39	FO-51=	0,00	FO-55=	0,13	FO-78=	0,05	FO-91=	6,4

C95 Ladle treatment

ITEM NO.: 02.04-07.09-10
HEAT OF THE INDICATED ITEM: VACUUM DEGASSED / SULPHIDE SHAPE CONTROL

C95 Further information about ladle treatment

ITEM NO.: 02.04-07.09-10
CALCIUM TREATED

G70-C99 Chemical composition % - Product analysis

B07.2 Heat	Test No.	C	SI	MN	P	S	N	CU	MO	NI	CR	V	NB	SN	TI
354638	54388	X1	0,169	0,366	1,16	0,009	0,0071	0,025	0,010	0,029	0,033	0,000	0,000	0,001	0,001
354638	93547	X1	0,181	0,365	1,15	0,008	0,0069	0,037	0,014	0,032	0,033	0,000	0,002	0,000	0,002
354638	93854	X1	0,188	0,369	1,15	0,006	0,0005	0,053	0,016	0,034	0,033	0,000	0,004	0,001	0,002
355728	93050	X1	0,174	0,368	1,17	0,008	0,0014	0,067	0,021	0,059	0,046	0,000	0,000	0,001	0,003
355728	93269	X1	0,179	0,369	1,18	0,009	0,0015	0,075	0,020	0,060	0,046	0,000	0,000	0,001	0,003
355728	93391	X1	0,182	0,367	1,16	0,009	0,0017	0,081	0,020	0,059	0,046	0,000	0,000	0,001	0,003
355728	93534	X1	0,180	0,370	1,17	0,009	0,0014	0,078	0,021	0,060	0,046	0,000	0,000	0,001	0,003
355730	92483	X1	0,173	0,371	1,16	0,008	0,0009	0,073	0,009	0,033	0,041	0,000	0,000	0,001	0,003
355730	92486	X1	0,173	0,369	1,16	0,008	0,0008	0,075	0,034	0,037	0,042	0,000	0,000	0,001	0,003
355730	92508	X1	0,169	0,370	1,16	0,008	0,0011	0,066	0,034	0,052	0,044	0,000	0,000	0,001	0,003
355732	92290	X1	0,170	0,359	1,16	0,007	0,0008	0,076	0,035	0,037	0,041	0,000	0,000	0,001	0,002

2012/02/03 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.

				AG der Dillinger Hüttenwerke Postfach 1580, D-65748 Dillingen/Saar Inspection department	
Manufacturer's mark		S. BALDAUF Test House Manager		Inspector's stamp Date 28.02.11 PP 1	

QM-System: Certification as per ISO 9001



Erläuterungen siehe Rückseite/Explications voir au verso/See reverse for explanations (www.dillinger.de/certificate)

A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004		A10 Advice of dispatch No./ Date of dispatch		A08/ Manufacturer's order/ ACS Certificate No.		Sheet	
INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+A1:1995 + AS PER ISO 10474:1991		380983-27.02.11		362037-003		6/...	
MATERIAL TEST REPORT (MTR)		A06 Purchaser		A07.1 No.		A07.2 No.	
A05 Established inspecting body		EDMONTON STEEL, EDMON		EDMONTON STEEL, EDMON		SA20-S5	
DH		Final receiver		EDMONTON STEEL, EDMON		SA20-S5	
B02/ Steel design.		SA516-70		A07.1 No.		ED10557-J1010-ER	
B03 Any suppl.		ASME-II-A:10		A07.2 No.		SA20-S5	
requirements		DIL-HUE-2:R31-2010-11-22					

C70-C99 Chemical composition % - Product analysis

S07.2	S07.1	C01	CA	AL-T
Heat	Test No.			
354638	54388	K1	0,0003	0,034
354638	93547	K1	0,0001	0,031
354638	93854	K1	0,0000	0,030
355728	93060	K1	0,0002	0,035
355728	93269	K1	0,0001	0,033
355728	93391	K1	0,0001	0,031
355728	93534	K1	0,0003	0,033
355730	92483	K1	0,0002	0,034
355730	92486	K1	0,0000	0,033
355730	92508	K1	0,0002	0,034
355732	92290	K1	0,0000	0,033

C94 Product analysis Carbon equivalent / Alloying restrictions

S07.2	S07.1	C01	FO-02=	FO-01=	FO-55=
Heat	Test No.				
354638	54388	K1	0,39	0,37	0,10
354638	93547	K1	0,39	0,37	0,12
354638	93854	K1	0,40	0,40	0,14
355728	93060	K1	0,39	0,39	0,16
355728	93269	K1	0,40	0,40	0,16
355728	93391	K1	0,39	0,39	0,16
355728	93534	K1	0,38	0,38	0,12
355730	92483	K1	0,38	0,38	0,12
355730	92486	K1	0,38	0,38	0,15
355730	92508	K1	0,38	0,38	0,15
355732	92290	K1	0,38	0,38	0,12

Z01/Z02/Z03 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.



A04		AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar Inspection department		Date 28.02.11		pp 1	
						Inspector's stamp B. BALDAUF Test House Manager	

QM-System: Certification as per ISO 9001



DILLINGER HÜTTE

Erklärungen siehe Rückseite/Explications voir au verso/See reverse for explanations (www.dillinger.de/certificate)

A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004 INSPECTION CERTIFICATE 3.1.B AS PER EN 10204:1991+AL:1995 + AS PER ISO 10474:1991		A10 Advice of dispatch No./ Date of dispatch 380983-27.02.11	A08/ Manufacturer's order/ A03 Certificate No. 362037-003	Sheet 7
MATERIAL TEST REPORT (MTR)				
A05 Established inspecting body DH	A06 Purchaser EDMONTON STEEL, EDMON	A07.1 No. ED10557-J1010-ER	B01 Product HOT ROLLED PLATES	
B02 Steel design. SA516-70				
B03 Any suppl. ASME-II-A:10				
Requirements DIL-HUE-2:R31-2010-11-22		SA20-SS		
<p>C94 Carbon equivalent formula / Alloying restrictions</p> <p>FO-02 = $C + (Mn/6) + (Cr+Mo+V)/5 + (Ni+Cu)/15$</p> <p>FO-51 = $V + Nb$</p> <p>FO-55 = $Cr+Mo+Ni+Cr$</p> <p>FO-78 = $Cr+Mo$</p> <p>FO-91 = Mn/C</p>				
<p>D01 Marking and identification, surface appearance, shape and dimensional properties</p> <p>ITEM NO.: 02.04-07,09-10</p> <p>RESULT OF MARKING, SURFACE, SHAPE AND DIMENSIONS: NO REMARKS</p> <p>SURFACE AS PER ASME-SA20</p> <p>THICKNESS AS PER ASME-SA20</p> <p>LENGTH AND WIDTH AS PER ASME-SA20</p> <p>FLATNESS AS PER 1/2-ASME-SA20</p>				
				
A04			<p>Z01Z02/203 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.</p>	
<p>B. BALDAUF Test House Manager</p>		<p>AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar Inspection department</p>	<p>Inspector's stamp AHB</p>	<p>Date 28.02.11 PP 1</p>


LUUKKI

VASTAANOTTOTODISTUS INSPECTION CERTIFICATE

1/7

EN-10-204-3:1 (2004)

A 27398 -002 A
09.10.2012

Tilaaja / Purchaser OLBERT METAL SALES LIMITED		Vastaanottaja / Consignee OLBERT METAL SALES LIMITED	
Tilaus nro. / Order No. U15T 218 MISSISSAUGA CANADA		Vastaanottajan tilaus Stamp of Inspector 10.01.2013	
Tilaus nro. / Order No. VA-9391		Merkki of the Manufacturer 	
Tilaus nro. / Order No. 27398		Tilaus nro. / Order No. 27398	
Tilaus nro. / Order No. 27398		Tilaus nro. / Order No. 27398	

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VASTAANOTTOTODISTUS INSPECTION CERTIFICATE

3/7

A 27398 -002: A
09.10.2012

Tilaaja/Purchaser OLBERT METAL SALES LIMITED LST 218, MISSISSAUGA, CANADA Tilaus nro / Order No. VA-9391		Vastaanottaja / Consignee OLBERT METAL SALES LIMITED LST 218, MISSISSAUGA, CANADA Asiakkaan merkki / Shipping mark		Päivämäärä / Date 10.01.2013 Valmistajamerkki / Mark of the Manufacturer	
Todistus Certificate 31	Lähtö / Shipping NEMUNA	Laatuvaatimus / Quality Requirement SA516GR70MTLTV		Tarkastajan leima / Stamp of Inspector ✓	
Toimitustyyppi / Delivery type PART-DELIVERY		Substanssilevy nro. / Cast No. / Plate No. XXXXX-XX-XX-XX		Vastaanottajan leima / Stamp of Surveyor	
Tuote / Product HEAVY PLATES		Toleranssit / Tolerances ASME SA-20, 2011A		Muut leimaukset / Other Stamps	
Laji / Grade SA516 GR 70 MTLTV ASME SA516-11A/ASTM/A516-10		Tarkastus / Inspection PRESS VESSEL STEEL ASME CODE SEC II ED 2011A SA20		Tekniset vaatimukset / Technical terms of Delivery and/or Official Regulations	
Pöytäkirja / Minutes Nro. / No.	Merkki / Mark	Paino kg / Weight kg	Status levy nro. / Cast plate No.	SP nro. / SP No.	UT / MT

*** 61 228138

Raake Steel Works

Todistus ja tarkastus / Testing and Inspection

Jaakko Juuso

JAAKKO JUUSO

Vastuullinen tarkastaja / Authorized inspection representative
Yhtiön nimi/Company Name: RAUKKI METALS OY
Käypä/Registered Office: HELSINKI

Postiosoite / P.O. Box 93
FIN-01101 RAUKE, FINLAND

Puhelin / Telephone: 020 5511
Faksi / Fax: 020 5511

Talokupla / Address: 020 552 2736
Y-tunnus / Business ID: 2385445-7

Tämän todistuksen, että toimitus on laatuselvityksien mukainen,
me hereby certify that the material described above has been tested and complies with the terms of the order confirmation.



4/7
A: 27398, -002
09.10.2012

EN 10204-3:1 (2004)

Chicago Purchaser
OLBERT METAL SALES LIMITED

OLBERG METAL
SUITE 305
TIDUS DR. OMAHA, NE

Vastaanottaja: Consignee
OLBERT METAL SALES LIMITED
 SUITE 305
 Asiakkään merkki Shipping mark

Titulus no. Order No.
VA-9391

Lall Grade
SA516 GR.70 MTI TV

Lactose Intolerance: Quality Specifications

PRESS.VESSEL STEEL ASME CODE SEC II ED 2011A SA20

N 920E, T=1.1(MIN)XTHICKN(MM)

[illegible]

K2: F1=TOP, TRANSV.

• **NORMALIZED**

Reg. Item	Submittal Data no Coba test No	Bakure Impact test			Silikamuturmu			Duple Intruso			Enkolozet, Special test			Room No	Bakur Tapping		
		IK3	F		1	2	3	1	2	3	K4	F	1			2	Kesikavo
001	58250 011	115	-051	80	73	77											146
001	58250 012	115	-051	104	74	81											137
001	58250 013	115	-051	75	70	79											140
001	58250 014	115	-051	60	83	72											144
001	58250 016	115	-051	79	80	93											146
001	58397 021	115	-051	90	82	85											142
002	58262 041	115	-051	86	85	87											143
002	58262 042	115	-051	85	90	119											140
002	58262 043	115	-051	88	88	89											145
002	58262 044	115	-051	99	102	91											148
002	58262 045	115	-051	87	90	94											146
002	58263 011	115	-051	78	103	92											146
002	58263 012	115	-051	88	91	89											146
002	58263 013	115	-051	86	81	99											146

K3: 115=CHV/ISO-VJ17.5X10 TOP LONGIT/AV800
K4: 1B=HARDNESS/HB TOP

Raah Steel Works

Yersinia enterocolitica
Testing and diagnosis.

Tylen löd samme, ett tomlus on läusavahvustus määhen.
 We hereby certify that the material described above has been tested and conforms with the terms of the order confirmation.

10.64K0 11150

ආයුර්වේදයේ ප්‍රධාන අංගය වන්නේ

Yhtiön nimi/Company Name: RUUKKI M
Katsoaikko/Registered Office: HELSINKI

PL 93, P.O. Box 93,
FIN-02101 RAUHE, FINLAND

Publication-Telephone: 020 5911
-358 20 5911

**Telecopio Telefax: 020 592 2736
+358 20 592 2735**



AINESTODISTUS TEST REPORT

5/7

A 27398 -002 A
09.10.2012

Client: Purchaser
OLBERT METAL SALES LIMITED
SUITE 305
*Trans no. Order No.
VA-9391
Lait. Gasto
SA516 GR 70 MTLTV

Vasemmanpuoleinen, Consigned
OLBERT METAL SALES LIMITED
SUITE 305
Asiakkaan mekku Shipping mark
Mark of the manufacturer

10.01.2013

IV



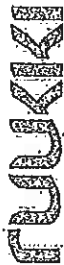
Jalkusavalehtia hapettotusta
Oxygen steel, continuous casting
Fully killed, Fine grain practiced

Lisävaatimukset Additional requirements

Technical Specifications
PRESS VESSEL STEEL ASME CODE SEC II ED 2011A SA20

N 920C, T=1.1(MIN)XTHICK(N)(MM)

Box Item		Substrate, k test no Cast test No	Tensile test	Vicat		Tensile test										Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile test		Tensile 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ANALYSIS CERTIFICATE
ANALYSEBESCHENIGUNG
COMPOSITIO CHIMIQUE CERTIFICAT
СЕРТИФИКАТ АНАЛИЗА

7/7
A 27398 -002 A
09.10.2012

Printed Date Datum Date
10.01.2013

IV

CEPHIUMKAI ANALISA																						09.10.2012	
Analysis % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Analyseanalyse % (-open)																						PlasmaJara Date Datum Date Data	
3.0.01.2013																						IV	
Solutio Cast No Schmelzen Nr No de coulee Refiner	Test No Prüf Nr Essai No No Testeur	Proble Item Poste Poste	Calcu Calc Calc Calc	C	SI	XM	P	S	AL	NE	V	TI	CU	CR	NI	MO	N	SN	B	ZR			
58260	001	38																					



CEQ=C+XM/S+ (CR+MO+V) / 5+ (NI+CU) / 15

Raah Steel Works

Testaus ja tarkastus
Prüfung und Kontrolle
Essais et Contrôle
Kestävyys ja korroosio
Verschleiß und Korrosion

Testaus ja tarkastus
Prüfung und Kontrolle
Essais et Contrôle
Kestävyys ja korroosio
Verschleiß und Korrosion

3AAKKO JUUSO
Välituote tarkastaja
Sachverständiger
Authorized inspection representative
Inspection autorisée

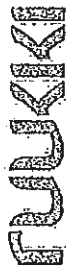
Yhtiön nimi Company Name: RUUKKI METALS OY
Kotipaikka Registered Office: HELSINKI
Osake Address: PL 93, P.O. Box 53
FIN-02101 RAAHE, FINLAND

Puhelin Telephone: 020 5511
+358 20 5511

Telefonio Tefax: 020 552 2736
+358 20 552 2736

Yhteisö Business ID: 2389445-7

Steel manufactured and supplied by Raahsteelt is free from radiation.
Stahlherstellung und -lieferung durch Raahsteelt ist frei von radioaktiver Strahlung.
Acier fabriqué et livré par Raahsteelt est exempt de rayonnement radioactif.



ANALYSIS CERTIFICATE
ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT
СЕРТИФИКАТ АНАЛИЗА

1/1
A 27398 -002 A

Analysis Date Datum Date Date
10.01.2013

LV

(% ppm)

Analysis %: Chemical composition %: Chemisch Zusammensetzung %: Composition Chimique %: Analysis result %

Steel No Stahl-Nr. No. d'acier No. d'acier	Positio Lage Positio Lage	Qual Qual Qual Qual
58260 013	001	38

C	SI	SIEN	P	S	AL	NE	V	TI	CO	CR	NI	MO	N	SN	B	ZR
* 58260 013	32	1.09	0.11	0.01	0.30	0.00	0.09	0.04	0.12	0.05	0.04	0.03	0.04	0.02	0.003	0.01
* 58397 021	31	1.09	0.09	0.02	0.41	0.01	0.07	0.04	0.12	0.04	0.04	0.03	0.04	0.02	0.002	0.01
* 58262 042	34	1.11	0.10	0.02	0.45	0.00	0.09	0.04	0.11	0.04	0.03	0.03	0.04	0.02	0.002	0.00
* 58263 012	34	1.10	0.09	0.01	0.39	0.01	0.07	0.04	0.12	0.04	0.04	0.03	0.04	0.02	0.002	0.01
* 58262 012	33	1.09	0.10	0.02	0.43	0.00	0.08	0.03	0.10	0.04	0.03	0.03	0.04	0.02	0.003	0.01
* 58180 021	32	1.12	0.12	0.02	0.47	0.01	0.12	0.04	0.16	0.05	0.04	0.05	0.04	0.02	0.002	0.01
* 58181 011	33	1.12	0.11	0.02	0.43	0.00	0.11	0.04	0.14	0.05	0.04	0.06	0.03	0.02	0.002	0.01



C50-C+NI/5+(CR+MO+V)/5+(NI+CO)/15

*EPL-ANALYSE, CHECK ANALYSIS, KONTROLLE ANALYSE, COMP. CHEM. DE CONTROLE

Raake Steel Works

Testaus für mechanische Prüfung und Kontrolle
Testing and Inspection
Escale et Contrôle
Mechanische u. chemische

John J. J. J.

JAAKKO JUUSO

Authorized Inspection representative
Valtuutettu tarkastaja
Sachverständiger
Yhteyshenkilö
Yhteisöön kuuluva edustaja

Yhtiön nimi/Company Name: RUKOMETALS OY
Raake Steel Works
Osoite/Address: P.O. Box 32
FIN-02101 RAAKE, FINLAND

Telephone: 020 592 2735
+358 20 582 2736

Telephone: 020 592 2735
+358 20 582 2736

Y-tunnus/Business ID: 2369445-7

Steel manufactured and supplied by Raake Steel Works
Raudraakasta valmistettu ja toimitettu Raake Steel Worksin kautta
Stahový materiál vyráběný a dodáván Raake Steel Works



新日鐵住金株式会社
NIPPON STEEL & SUMITOMO METAL CORPORATION

本社 東京都千代田区丸の内二丁目6番1号
HEAD OFFICE 2-6-1, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8071, JAPAN
君津製鐵所 千葉県君津市君津1番地
KAMITSUWORKS 1, KAMITSU-KU, IZUMI-CITY, CHIBA-PREF. 299-1141, JAPAN

鋼材検査証明書 INSPECTION CERTIFICATE

証明番号: P-21827 PAGE: 4
発行年月日: 2012-12-10
DATE OF ISSUE: 1001

必要検査項目番号: E3001A0200 E05
CUSTOMER CONTROL NO.

(AS PER EN 10204 CERTIFICATE ON MATERIAL TESTS 3.1)
EDMONTON EXCHANGER GROUP OF C-
CUSTOMER COMPANIES

規格: ASME SA-516 GRADE 70-E10-A11

文書番号: 228-88521090

商品名: HOT ROLLED STEEL PLATES

製造番号: 2-8117-H1-5-Y-A103

SHIPPER: HANWA CO., LTD.

注文者協会番号: 228-88521090

契約番号: 2-8117-H1-5-Y-A103

商品名: HOT ROLLED STEEL PLATES

規格: ASME SA-516 GRADE 70-E10-A11

文書番号: 228-88521090

製造番号: 2-8117-H1-5-Y-A103

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商品名: HOT ROLLED STEEL PLATES

規格: ASME SA-516 GRADE 70-E10-A11

文書番号: 228-88521090

寸法 DIMENSION mm, inch, feet	数量 QUANTITY	質量 MASS KG	製品番号 PLATE No.	引張試験 TENSILE TEST Y.S. Y.P. T.S. EL. % 0.2% AS1	衝撃試験 IMPACT TEST 2V - 50F FT. LB. AVG EACH	化学成分 CHEMICAL COMPOSITION %											
						C	Si	Mn	P	S	Q	Ni	Cr	Mo	Nb	V	Ti
0.75" X 120.5" X 480"	02	1	5579	61753	073310210101	54	77	33									
						AVG	16	37	143	9	3	1	2	2	0	11	03640
						ILLF219	223	153									
						203											
0.75" X 120.5" X 480"	02	1	5579	61753	073310210101	53	77	32									
						AVG	16	37	143	9	3	1	2	2	0	11	03640
						ILLF203	230	153									
						249											
0.75" X 120.5" X 480"	02	1	5579	61753	073310210101	53	77	32									
						AVG	16	37	143	9	3	1	2	2	0	11	03640
						ILLF203	230	153									
						249											

注 記 NOTES 1. 位置方位 Longitudinal C: 延方向 Transverse D: 横方向 2. 厚さ方向 Through Thickness R: 45° 方向 3. 50kg to the Longitudinal Axis

4. 試験方法 5. 試験結果 6. 試験場所 7. 試験員 8. 試験日 9. 試験場所 10. 試験員 11. 試験日 12. 試験場所 13. 試験員 14. 試験日 15. 試験場所 16. 試験員 17. 試験日 18. 試験場所 19. 試験員 20. 試験日 21. 試験場所 22. 試験員 23. 試験日 24. 試験場所 25. 試験員 26. 試験日 27. 試験場所 28. 試験員 29. 試験日 30. 試験場所 31. 試験員 32. 試験日 33. 試験場所 34. 試験員 35. 試験日 36. 試験場所 37. 試験員 38. 試験日 39. 試験場所 40. 試験員 41. 試験日 42. 試験場所 43. 試験員 44. 試験日 45. 試験場所 46. 試験員 47. 試験日 48. 試験場所 49. 試験員 50. 試験日 51. 試験場所 52. 試験員 53. 試験日 54. 試験場所 55. 試験員 56. 試験日 57. 試験場所 58. 試験員 59. 試験日 60. 試験場所 61. 試験員 62. 試験日 63. 試験場所 64. 試験員 65. 試験日 66. 試験場所 67. 試験員 68. 試験日 69. 試験場所 70. 試験員 71. 試験日 72. 試験場所 73. 試験員 74. 試験日 75. 試験場所 76. 試験員 77. 試験日 78. 試験場所 79. 試験員 80. 試験日 81. 試験場所 82. 試験員 83. 試験日 84. 試験場所 85. 試験員 86. 試験日 87. 試験場所 88. 試験員 89. 試験日 90. 試験場所 91. 試験員 92. 試験日 93. 試験場所 94. 試験員 95. 試験日 96. 試験場所 97. 試験員 98. 試験日 99. 試験場所 100. 試験員

上記諸文書は製鋼所の規格または仕様に従って製造され、その要求事項を満足していることを証明します。

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN
MADE IN ACCORDANCE WITH THE RULES OF THE CONTRACT.

J. Adachi

君津製鐵所 品質保証室
HEAD OF DEPARTMENT
QUALITY ASSURANCE DEPT.
KAMITSUWORKS



B

SHIPPER : HANWA CO., LTD.

注文者照合番号 : 228-68521080

契約番号 : 2-811-HI-5-Y-AIG3

商 品 名 : HOT ROLLED STEEL PLATES

規 格 : ASME SA-516 GRADE 70-F10-A11

文 章 番 号 : 需要家 : EDMONTON EXCHANGER GROUP OF C-

DOCUMENT No. : CUSTOMER : COMPANIES



新日鐵住金株式会社
NIPPON STEEL & SUMITOMO METAL CORPORATION

鋼材検査証明書 INSPECTION CERTIFICATE

(AS PER EN 10204 CERTIFICATE ON MATERIAL TESTS 3.1)

需要家管理番号 : CUSTOMERS CONTROL No.

本 社 : 〒100-8071 東京都千代田区丸の内二丁目6番1号
HEAD OFFICE : 2-6-1, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8071, JAPAN
営業所 : 〒299-1141 千葉県君津市君津1番地
KIMITSU WORKS : 1, KIMITSU, KIMITSU-CITY, CHIBA-PREF. 299-1141, JAPAN

証明番号 : P-21627
CERTIFICATE No. : P-21627

発行年月日 : 2012-12-10
DATE OF ISSUE : 2012-12-10

2==DN==***
*****CEW***

E3001A0200 E05

寸 法 DIMENSION mm, inch, feet	数量 QUAN- TITY	質 量 MASS KG	製鋼番号 CAST No. 試験番号 TEST No.	製品番号 PLATE No.	位置 LOCATION ORIENTATION	引 張 試 験 TENSILE TEST				衝撃試験 IMPACT TEST 2V - 50F FL - LB 平均値 AVG EACH	化 学 成 分 CHEMICAL COMPOSITION %																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						0.2%	YS	TS	伸び EL		%	C	Si	Mn	P	S	Al	Ni	Cu	Cr	Mo	Nb	V	Ti	As	Sb	Bi																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
0.75"X120.5"X480"	02	5579	G4160 61755	073310206TCI	52	76	29																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																



PURCHASE ORDER #

3101

DATE Mar 17, 2014

mar 17, 2014

VENDOR **V.E.G. Oilfield Supply**

field Supply

DATE REQUIRED	ALL
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All

JOB NUMBERS 8" Stock Scrubbers

8" Stock Scrubbers


VESSEL SER#

4901 Bruce Road Vegreville, Alberta T9C 1C3

Phone: (780) 632-7774

[illegible]

Authorized
Signature



1. The above items are to be formed to meet the requirements of ASME Section VII, Div. 1 USC 79(d).
2. Tack welds that are welded must use procedures and welders qualified to ASME Section IX
3. On all code required material, Markings must be accurately transferred to formed material or cut pieces.



PRESSURE TEST RECORD

Date:

March 21/2014

Vessel Serial Number:

13067

Vessel Design Pressure:

150psi.

Hydro Test Pressure:

225psi

Temperature:

+16

Test Gauge No.:

#3 / PI 4449

Hydro By:

Wes

Q.C. Signature:

CS

Print Clearly

Original to be returned to Q.C. on completion of hydro.

THE UNIVERSITY OF CHICAGO PRESS
CHICAGO, ILLINOIS 60607-7090
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GAS FIELD SERVICES

MATERIAL INSPECTION REPORT

13067



INSPECTED BY Wes Markowsky

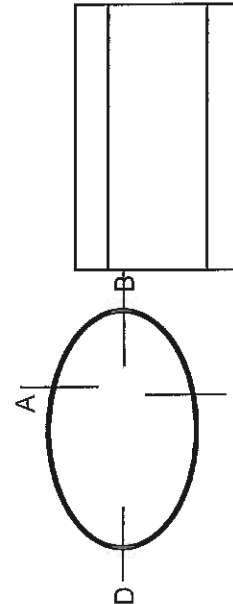
DATE March 20, 2014

FROM PURCHASE ORDER NUMBER

4901 Bruce Road Vegreville, Alberta T9C 1C3

Phone: (780) 632-7774

MATERIAL	NOM. THICK	HEAT NUMBERS	HEAD MIN. THICK.	MATERIAL MARKINGS VERIFICATION	INSP. SURF & Edge	CONFORM Y or N	QUALITY CONTROL MANAGER
SHELL SA 106 B	0.322	1233174V	0.322	.324/ .322/ .323	✓	Y	
PLATE SA 516.70	3/4"	355730-92492	3/4"	.768/ .760/ .758	✓	Y	



PIPE

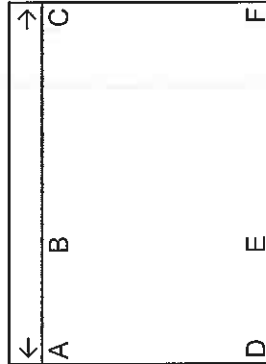


PLATE & REPADS

Heads 24" & Smaller 0° - 90°

REMARKS:



Vessel Name Plate Travel Sheet

Vessel Serial Number:

Vessel Name:

Vessel DWG #:

Vessel C.R.N. #:

Vessel Design Pressure:

Hydro Pressure:

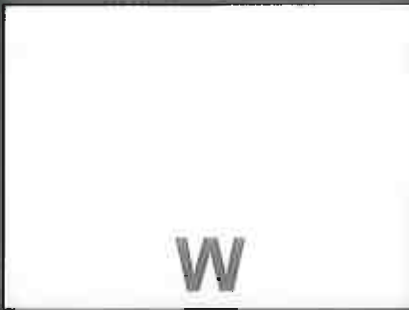
Plate Originator: Date:

Engraved By: Date:

Picked Up By: Date:

Print Clearly

Original to be returned to Q.C.



Certified By

RJV

**GAS FIELD
SERVICES**

Vegreville, Alberta
Phone (780)632-7774



UNIT NAME

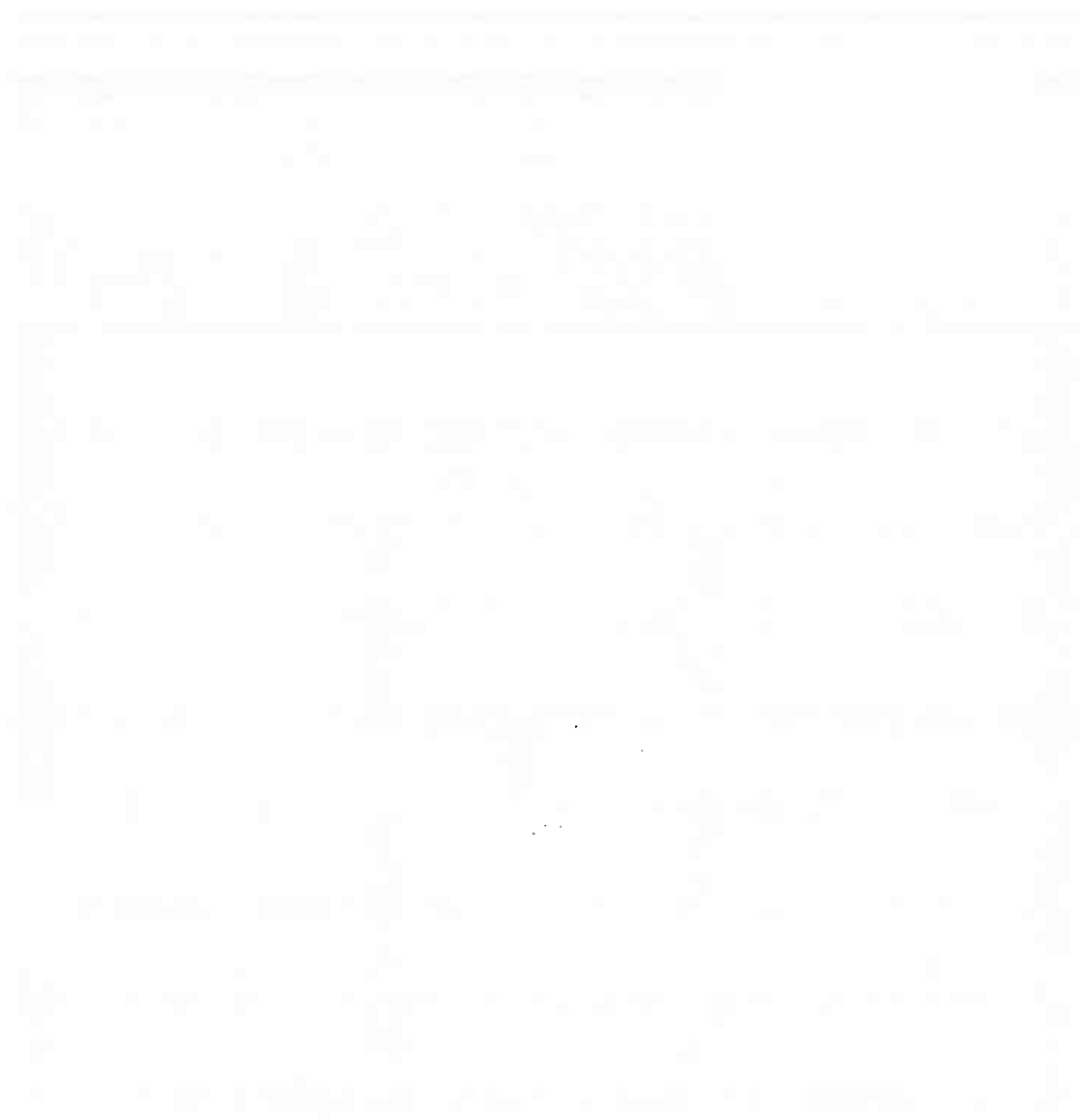
Fuel Gas Scrubber

M.A.W.P. Internal		AT	DESIGN TEMP.		M.A.W.P. External	
1035	Kpa.	@	38	°C		Kpa.
150	Psi.	@	100	°F		p.s.i.
MINIMUM DESIGN METAL TEMPERATURE				YEAR BUILT		
-29	°C	@	1035	Kpa.	2014	
-20	°F	@	150	p.s.i.		
C.R. NUMBER				SERIAL NO.		

F6388.231

15067

CORR. ALLOW.	HEAT TREATMENT	HYDRO TEST
3.17 mm	NIL	1555 Kpa.
SHELL THICK.	HEAD THICK.	225 p.s.i.
8.1 mm	Top - 7.16 mm	50 Kg.
SHELL MAT'L	Bottom - 19.05 mm	
SA-106-B	HEAD MAT'L	219 X 762mm
	Top- SA-234-WPB	
	Bottom- SA-516-70	



ALBERTA MUNICIPAL AFFAIRS

ABSA, the pressure equipment safety authority

9410 – 20th Avenue

Edmonton, AB T6N 0A4

MANUFACTURER'S DATA REPORT**FOR MINIATURE PRESSURE VESSEL****DÉCLARATION DE CONFORMITÉ DU CONSTRUCTEUR****D'APPAREILS SOUS PRESSION**

Upon shipment of a pressure vessel, this form fully and correctly filled in must be mailed to the office of the Chief Inspector in the province of installation in accordance with the regulations under the Act, governing the construction and installation of pressure vessels.

Au moment de l'expédition d'un appareil sous pression, ce formulaire complété correctement, doit être envoyé au bureau de l'inspecteur en chef de la province d'installation tel que prévu dans les règlements de la loi sur les appareils sous pression.

Manufactured by <i>Construit par</i>	Name and address of Manufacturer/ <i>Nom et adresse du constructeur</i> RJV Gasfield Services 4901 Bruce Road, Vegreville, Alberta, T9C 1C3
Manufactured for <i>Construit pour</i>	Name and address of Purchaser or Consignee/ <i>Nom et adresse du client ou de son représentant</i> RJV Gasfield Services 4901 Bruce Road, Vegreville, Alberta, T9C 1C3
Ultimate owner <i>Utilisateur</i>	Name and address/ <i>Nom et adresse</i> Stock
Location of Installation <i>Lieu d'installation</i>	Name and address/ <i>Nom et adresse</i> Stock

Pressure vessel/ Appareil

Type/ <i>Genre</i> Vertical Fuel Gas Scrubber	Overall Length/ <i>Longueur totale</i> 762mm sm/sm	Serial No./ <i>N° de série</i> 13067	Year built/ <i>Année de fabrication</i> 2014
Provincial Registration No. – C.R.N./ <i>N° d'enregistrement provincial - N.E.C.</i> F6388.231			Drawing No./ <i>N° de dessin</i> V85-05 Rev.2

The chemical and physical properties of all parts meet the requirements of material specifications of the A.S.M.E. Code.

Les propriétés chimiques et physiques de toutes les composantes respectent les exigences des spécifications de matériaux de code ASME.

The design, construction and workmanship conform to CSA B51. <i>La conception, la construction et la façon sont conformes à ACNOR B51.</i>	ASME Section VIII	Division 1	Addenda/ <i>Supplément</i> 2011a	Code case No. <i>N° de cas</i> N/A
Manufacturer's partial data reports properly identified and signed by authorized inspectors have been furnished for the following items of the report, and attached to this report: <i>Les rapports partiels du constructeur adéquatement identifiés et signés par les inspecteurs autorisés ont été produits pour les items suivants du rapport, et attachés à ce rapport:</i>				
Names of parts/ <i>Nom de la composante</i>	Item No./ <i>N° d'item</i>	Manufacturer's Name/ <i>Nom du constructeur</i>	Identifying Stamp/ <i>Estampe d'identification</i>	

Shell/ Virole

Description	Material <i>Matériau</i>	Thickness <i>Épaisseur</i>	Corr. Allow. <i>Surépais. de corr.</i>	Diameter <i>Diamètre</i>	Longitudinal Joints <i>Joints longitudinaux</i>			P.W.H.T. <i>Traitement therm</i>		Girth Joints <i>Joints de circonférence</i>		Number of courses <i>Nombre de sections</i>
					Type	R.T. Radiog.	Efficiency <i>Efficacité</i>	Temp.	Time <i>Durée</i>	Type	R.T. Radiog.	
Shell	SA-106-B	8.1mm	3.17mm	219mm	1	smi's	100%	-----	-----	None	None	1

Heads/ Têtes

Description	Material <i>Matériau</i>	Min. Thickn. <i>Épais min.</i>	Corr. Allow <i>Surépais. Corr.</i>	Crown Radius <i>Rayon couron.</i>	Knuckle Radius <i>Petit rayon</i>	Ellipse Ratio <i>Rapp. ellipse</i>	Conical Apex Angle <i>Angle conique</i>	Hemisph. Radius <i>Ray. Hémisph</i>	Flat Diameter <i>Diam. plat</i>	Side to pressure <i>Côte sous pression</i>
Top	SA-234-WPB	7.16mm	3.17mm	-----	-----	Weld Cap	-----	-----	-----	Concave
Bottom	SA-516-70	19.05mm	3.17mm	-----	-----	-----	-----	-----	305mm	Flat
Removable bolts used (describe other fastenings) <i>Boulons amovibles utilisés (décrire tout autre attache)</i>					Mat'l Spec./ <i>Spéc. du mat.</i>			Grade		Size/ <i>Dimension</i>

Pressure - Temperature/ Pression - température

Pressure Vessel Part <i>Partie de l'appareil</i>	Constructed for max. allowable working pressure <i>Construit pour une pression maximale de marche permise</i>	At max. temp. <i>A une temp. max.</i>	Minimum design metal temp. <i>Temp. min.</i>	Test pressure (hydro-pneumatic or combination) <i>Pression d'épreuve (hydro-pneumatique ou combinaison)</i>
Vessel	1035 Kpa	38°	-29°	1555 kPa

Tube Section/ Faisceau tubulaire

Tubesheet/ Plaque tubulaire	Material/ Matériau	Diameter/ Diamètre	Nominal Thickness Épaisseur nominale	Corr. Allow. Surépais. corrosion	Attachment Mode d'attachement
Tube material/ Matériau des tubes	Diameter/ Diamètre	Nominal Thickness (gauge) Épaisseur nominale (calibre)	Number/ Nbre	Type (Straight or U) Type (Droit ou U)	Heating Surface Surface de chauffe

Jacket/ Chemise

Type of jacket/ Genre de chemise	Jacket closure Fermeture de chemise	Proof Test Pression d'épreuve	Heating Surface Surface de chauffe	Sketch/ Schéma
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Safety Valve Outlets/ Soupapes de sûreté

Number/ Nombre 1	Dimension 33.4MM	Location/ Endroit Shell
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Nozzles and Openings/ Tubulures et ouvertures

Purpose/ But	Number Nombre	Dimension	Type	Material Matériau	Nominal Thickness Épaisseur nominale	Reinforcement material Matériau de renfort	How attached Genre d'attaches	Location/ Endroit
Outlet	1	60.3mm	Coupling	SA-105	CL3000	N/A	UW16.1{c}	Top Head
Inlet/Drain/P.S.V.	3	33.4mm	Coupling	SA-105	CL3000	N/A	UW16.1{c}	Shell

Supports/ Supports

Skirt/ Jupe Yes/ Oui No/ Non <input type="checkbox"/> <input checked="" type="checkbox"/>	Lugs/ Orelles No./ Nbre No	Legs/ Pieds No./ Nbre No	Other/ Autres (Description) N/A	Attached/ Attaches (Where and How/ Méthode et endroit) Flat bottom head welded to shell
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Remarks/ Observations (Cubical capacity/ Volume)

Volume - (.022 cubic meters) Exempt from impact test requirements as per UG 20(f) 1 to 5 Flat head o.d. is 203mm Hydrostatically tested in the Vertical Position

Certificate of Compliance/ Certificat de conformité

We certify that the statements made in this data report are correct and that the said vessel has been constructed in accordance with the Provincial Registered design below and the requirements of standard CSA B51.

Nous certifions que les données de la déclaration de conformité sont correctes et que l'appareil a été construit en accord avec l'enregistrement provincial ci-dessous et les exigences de la norme ACNOR B51.

Provincial Registered Design
Enregistrement provincial F6388.231

Manufacturer
Constructeur RJV Gasfield Services

Signature _____ Date MAR 21 2014

(Representative)

Signature _____ Date MAR 21 2014

(Certified Individual)