

400BBL TANKS

Certifications & MTR's

•Pipe

Manufactured By:



For



5 S40 A106
H# 1313164

HENGYANG VALIN STEEL
TUBE CO., LTD

MILL TEST CERTIFICATE

(ACCORDING TO EN10204 3.1B)

Add: 10 Baixincun, Hengyang City, Hunan, P. R. China P. C. 421001
Tel and Fax: +86 734 8875739
E-mail: hsioghi@valintube.com

CUSTOMER		BHD TUBULAR LIMITED		CERTIFICATE NO		C20132905-1	
CONTRACT/ITEM NO.		2111000778-04		P.O.NO.		112000	
PRODUCT		SEAMLESS STEEL LINE PIPE		DELIVERY CONDITION		HR	
SPECIFICATION		SEE SPECIFICATION NOTE		HEAT TREATMENT			
GRADE		B.BX42, Grade 290		DIMENSIONS		3" x S40 x 20FT	
TOTAL BUNDLES:		TOTAL, PIECES:		TOTAL LENGTH:		TOTAL WEIGHT:	

NO.	LOT No.	HEAT No.	BUNDLES	PIECES	LENGTH		WEIGHT		TENSILE TEST ASTM A370					
					FT	WT	TS(Psi)	YS(Psi)	Rt0.5	EL(%)	R.A. (%)	YSTS		
1	937300703	1324625	5	98	1961.280	6.751	76705	59160	33.5				0.77	
2	937300704	1313164	26	486	9726.349	33.483	75690	57710	34.0				0.76	
3	937300705	1324622V	10	189	3782.469	13.021	75545	56985	34.0				0.75	
4	937300706	1324625	3	50	1000.653	3.444	73660	55680	35.0				0.76	

NO.	IMPACT TEST				NON METALLIC INCLUSION	GRAIN SIZE	HARDNESS TEST	
	AKI (J)	AV. (J)	% SHEAR AREA	LE			NACE MR0175	HV10
1	/	/	/	/			162.000000	
2	/	/	/	/			161.500000	
3	/	/	/	/			157.000000	
4	/	/	/	/			161.300000	

NOTES:		SAMPLE ORIENTATION: L-LONGITUDINAL T-TRANSVERSE		N-NORMALIZING		HE-HOT EXPANDED	
W1-THEORETICAL WEIGHT		SAMPLE TYPE: S--STRIP C--CLUBBED F--FULL-SECTION		A-ANNEALING		HR-HOT ROLLED	
W2-ACTUAL WEIGHT		Q&T-QUENCHING AND TEMPERING		AV-AVERAGE		N&T-NORMALIZING AND TEMPERING	
NR-NORMALIZING ROLLED		AK1-ABSORB ENERGY FOR THE FIRST SET		AK2-ABSORB ENERGY FOR THE SECOND SET		LE-SIDE EXPANSION	

HENGYANG VALIN STEEL
TUBE CO., LTD

MILL TEST CERTIFICATE

(ACCORDING TO EN10204 3.1B)

Add: 10 Dalixincun, Hengyang
City, Hunan, P. R. China P.C.: 421001
Tel and Fax: +86 734 8873739
E-mail: hsteedhsteel@163.com

CUSTOMER	BHD TUBULAR LIMITED		CERTIFICATE NO.	C201329095-1	
CONTRACT ITEM NO.	2111000778- 04	P. O. NO.	112000	DATE:	2013-8-14
PRODUCT	SEAMLESS STEEL LINE PIPE		DELIVERY CONDITION	HR	
SPECIFICATION	SEE SPECIFICATION NOTE		HEAT TREATMENT		
GRADE	B.XX42, Grade 290		DIMENSIONS	3" x S40 x 20 FT	
TOTAL BUNDLES:	TOTAL PIECES:	TOTAL LENGTH:	FT	TOTAL WEIGHT:	MT

REMARK: ORIGIN:MADE IN CHINA

SPECIFICATION NOTE	API 5L(45in)PSL1+ASTM/ASME A5A106-2010+CSA Z245.1CAT 1 MR0175 ISO15156 MR0103(FOR HARDNESS ONLY)
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We hereby certify that material herein described has been manufactured in accordance with the standards and specifications required in your order and satisfies the corresponding requirements.

This certificate is issued by a computerized system and it is valid with electronic signature. In case the owner of the certificate would release a copy of it, he must attest its conformity to the original one taking upon himself the responsibility for any unlawful or not allowed use.

Any alteration and/or falsification will be subject to the law.

If you need to assure the authenticity of this certificate, please do not hesitate to contact Hengyang Valin Steel Tube CO., LTD. E-mail: hsteedhsteel@163.com

CUSTOMER THIRD PARTY

Quality Manager:



Certificate-maker: 唐娅娜

HENGYANG VALIN STEEL
TUBE CO., LTD

MILL TEST CERTIFICATE

(ACCORDING TO EN10204 3.1B)

Add: 10 Dalizincun, Hengyang
City, Hunan, P.R.China P. C.: 421001
Tel and Fax: +86 734 8872789
E-mail: hsteeldhysteeltube.com

CUSTOMER	BHD TUBULAR LIMITED			CERTIFICATE NO.	C201329095-1
CONTRACT ITEM NO.	211000778-04	P. O. NO.	112000	DATE:	2013-8-14
PRODUCT	SEAMLESS STEEL LINE PIPE			DELIVERY CONDITION	HR
SPECIFICATION	SPE SPECIFICATION NOTE			HEAT TREATMENT	
GRADE	B.XX42 Grade 290			DIMENSIONS	3" x 540 x 20 FT
TOTAL BUNDLES:	TOTAL PIECES:	TOTAL LENGTH:	FT	TOTAL WEIGHT:	MT

REMARK: ORIGIN: MADE IN CHINA

SPECIFICATION NOTE	API 5L/45H/PSL1+ASTM/A536/A537/A538/A539/ASME A/SA106-2010+CSA Z245.1/CAT 1 MR0175 ISO15156 MR0103(FOR HARDNESS ONLY)
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We hereby certify that material herein described has been manufactured in accordance with the standards and specifications required in your order and satisfies the corresponding requirements.

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If you need to assure the authenticity of this certificate, please do not hesitate to contact Hengyang Valin Steel Tube CO., LTD. E-mail: hsteeldhysteeltube.com

CUSTOMER THIRD PARTY

Quality Manager:



Certificate-maker:

唐如卿

无锡市华友特钢有限公司
Wuxi Huayou Special Steel Co., Ltd.

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63A016713



节期证明产量

MILL TEST CERTIFICATE

(EN10204 3.1)

无锡市滨湖区胡埭工业园西区西拓振湖路
Tel: (0510)85580556 Fax: (0510)85580556

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无锡市华友特钢有限公司
Wuxi Huayou Special Steel Co., Ltd.

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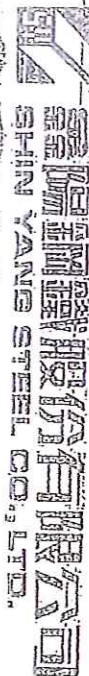


63A016713

订货单位						制造方法		热轧
CUSTOMER	BRI-CHEM STEEL CORPORATION					MAKING METHOD		HOT-ROLLED
收货单位	BRI-CHEM STEEL CORPORATION					交货状态		热轧态
PURCHASER						L/C NO.		DELIVERY CONDITION
产品名称	无缝钢管					热处理工艺		—
PRODUCT	SEAMLESS STEEL PIPES					HEAT TREATMENT		--
标准/等级	API 5L-B(2007) PSL 1/ASTM /ASME A5A106-06 B/CSA Z245.1 GR.290 CAT 1 NACE MR0175-2009 REGION 3 SS					出货日期		2012-5-31
SPEC/GRADE						DATE OF ISSUE		
外径	88.9 MM	壁厚	5.49 MM	长度	6.1 M	总支数		416
O.D	NPS 3	W.T.	STD	LENGTH		TOTAL PIECES (PCS)		
						总米数		2537.6
						TOTAL METERS (M)		
						总重量 (吨)		28.66
						TOTAL WEIGHT(TONS)		

化 学 成 份 %										非金属夹杂物 (级)																			
CHEMICAL COMPOSITION														Non-Metallic Inclusions(GR)															
序号 NO.	生产批号 WORK NO.	炉号 HEAT NO.	支数 PCS	*1	碳	硅	锰	磷	硫	铜	镍	铬	钼	钨	钒	硼	钛	Mn/C	CE(CSA)	A	B	C	D						
				Max	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	B	Nb	Ti					≤2.5	≤2.5	≤2.5	≤2.5				
1	1206130	243864	416	H	0.190	0.200	0.540	0.006	0.004	0.055	0.030	0.018	0.004	0.003	0.0002	0.002	0.001	2.8	0.29	0.5	0.5	0.5	0.5						
拉仲试验 TENSILE TEST														冲击试验 IMPACT TEST AKV (J)				无损探伤检测				金相试验 METALLOGRAPHIC							
标准 GAUGE LENGTH (50.8mm)														试验温度 TEMPERATURE OF TEST															
抗拉强度 屈服强度 伸长率														屈强比															
T.S. Y.S. E.L.																													
MPa MPa %														Y/T															
Max Min														0.93															
415 290 22														1 2 3				AVG											
L 475 / 480 305 / 310 30 / 33 0.64 / 0.65														- - -				HB 120/127/130 20.7 MPa,10s											
外观和尺寸														合格				压扁试验											
GOOD														FLATTENING TEST				合格				弯曲试验							
GOOD														BENDING TEST															
VISUAL & DIMENSION														合格				EXPAND TEST											
GOOD														FLATTENING TEST				合格				F+P 6							
1、H: HEAT (LADLE) ANALYSIS: P: PRODUCT ANALYSIS.														2、试样尺寸 SIZE : 弧形试样 STRIP T×19.05mm.															
3、试验方向 ORIENTATION : L=纵向 LONGITUDINAL.														4、SY=0.2% OFFSET.															
WE HEREBY CONFIRM THAT OUR PRODUCTS ARE MADE WITH MATERIALS WHICH ARE FREE FROM RADIATION CONTAMINATION																													
兹证明本表所列产品，均按标准规定制造、取样、试验和检验，并符合标准及合同要求。																													
会签者 SURVEYOR																													
I HEREBY CERTIFY THAT THE MATERIALS DESCRIBED HEREIN HAVE BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE CUSTOMER'S SPECIFICATION(S), AND THAT THEY SATISFY THE REQUIREMENTS.																													
Inspector 王金城														Inspector 李计珍															
Stamp of Mill Inspector																													

3" SCH 40



品質證明書

INSPECTION CERTIFICATE

8254小港鎮中橋頭馬子寮路297號
No. 297, Huihao Road, Qiaotou District
Kaohsiung City 82544, Taiwan (R.O.C.)
TEL: +886(0)7 6125177 FAX: +886(0)7 6126325

客戶名稱	PROTIN TAIPOUT LTD.	證明書編號	F138154	證明書開出日期	20130823
客戶地址	E. R. W. CARBON STEEL PIPE	發票號碼	FCP30048	發票日期	FCP30048A
商品名稱	SPEC: ASTM A53-2007 GRADE A/B	產品名稱	ORDER ITEM NO.	發票號碼	INVOICE NO.
COMMODITY	COUNTRY OF ORIGIN: TAIWAN	PRODUCT	NOT-ROLLED STEEL PLAIN END E. R. W. PIPE		
	APPLICANT PO: 270/2239677-00				

產品規格	ASTM A53 GR. B E. R. W.	產品規格	ASTM A53-2010 GRADE B / ASME SA53-2004 GRADE B, ELECTRIC-RESISTANCE
			WELDED PIPE, PLAIN END, BLACK STEEL PIPE.

序號 SEQ NO.	批號 LOT	管徑*厚度*長度 OD*THICK*LENGTH	數量(支) QTY/Pcs	重量 WEIGHT(KG)	MECHANICAL PROPERTIES AND OTHERS										物理機械		化學成分 CHEMICAL COMPOSITION wt%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
					TENSILE TEST					硬度 HARD HIT	衝擊 IMPACT TEST	BASIC OXIDE FURNACE & CONTINUOUS CASTING - AIR-HEATED STEEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
					YIELD TENSILE	TENSILE	伸長率 ELONG	彎曲 BEND TEST	平面 FLAT TEST			BASIC OXGEN FURNACE & CONTINUOUS CASTING - AIR-HEATED STEEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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SPECIFICATION					240	415	21	100°	E/2D			衝擊 IMPACT TEST	平均 AVG	溫度 TEMP °C	屈服 YIELD TENS	抗拉 TENSILE	延伸 ELONG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
1	103763000	3/4"x0.113"x21.000"	672	7254	458	458	27.0	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	

NOT A NONDESTRUCTIVE TEST (UT or ET)

茲證明本廠所列製品，均係材料規格製造及試驗，並符合規格之要求。

WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

NON-RADIOACTIVE CONTAMINATION CERTIFICATION

茲證明上述產品符合「放射性污染建築物事件防範及處理辦法」之規定，無放射性污染現象。原子能委員會合格証號：鋼板領字第二一八號。

THIS IS TO CERTIFY THE PRODUCT(S) THAT LISTED ABOVE COMPLIES WITH THE RULE OF "REGULATIONS FOR PREVENTION AND MANAGEMENT OF INCIDENT OF RADIOACTIVE CONTAMINATED BUILDINGS" AND NO RADIO CONTAMINATION PHENOMENON WAS FOUND.
CERTIFICATE OF ATOMIC ENERGY COUNCIL: DOCUMENT NO. 218.

SUBSCRIPTION

Ming Chuan Li

鋼管技術部副理
DEPUTY GENERAL MANAGER-PIPE TECHNOLOGY DIVISION



0730045825

4" sch 80

INSPECTION CERTIFICATE

SEAHI SEAH Steel Corp.

(주)세아제강

판권 : 1 / 2

증명서번호 : E201203-0077-000708(5007728)

제 품 명 : E.P.W STEEL PIPE

COMMODITY : E.P.W STEEL PIPE

제 품 규 격 : ASTM A53B(2007)/ASME SA53B(2007)

HEAD OFFICE : BONGNAM-DONG IGA, JUNG-GU, SEOUL, KOREA

POHANG PLANT : 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

발급 일자 : 2012.03.23

DATE OF ISSUE : 2012.03.23

계량서번호 : 12-1060(05/1228)

L/C No. (P/O No.) : 12-1060(05/1228)

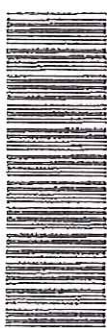
수요가 : PROTON IMPORT LTD.

CUSTOMER : PROTON IMPORT LTD.

주 문 자 : SEAH STEEL AMERICA, INC.

SUPPLIER : SEAH STEEL AMERICA, INC.

NO.	HEAT NO. (BATCH NO.)	원판 TYPE	주 문 치 수 ORDER SIZE	수 량 QUANTITY		
				본 수 PCS	총 길이 TOTAL LENGTH	중량(KG/T) WEIGHT
1	SG64610 (SMM253060)	BRE	4" X SCH80	138	2,898.000 FT	15.677
2	SG22201 (SMM3013090)	BRE	3" X SCH80	25	525.000 FT	2.441
3	SG61906 (SMM3013100)	BRE	3" X SCH80	119	2,499.000 FT	11.620
4	SG65621 (SMM3171140)	BRE	6" X SCH80	62	1,302.000 FT	16.874



0720007085

NO.	HEAT NO. (BATCH NO.)	HYDROSTATIC TEST			N . D . I VALUATION	F L I C K F L A T N E S S	C O M P R E S S I O N	R E A G I N G C R O S S	B E N D I N G	D R I F T	C R U S H I N G	F L A N G E	R E L A T I V E T E N S I L E	ZINC COATING TEST			CHEMICAL COMPOSITION(%)													TENSILE TEST (Gage Length : 50mm)		IMPACT TEST (C)	HARD- NESS TEST	HEAT TREATMENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		S S S psi	R E S I D U A L	*2										W E I G H T O F ZINC COAT- ING	T H I C K N E S S C.S.MLK	*4	*5	*6	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	CARB	D I R	*8				*9	*10	*11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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1	SG64610 (SMM253060)	2800	G	G	G																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

*1-BRE:Black Beveled End(30°)

*2-Heat(Ladle) Analysis, P-Product Analysis *7-2-X100, 3-X1000

*D-L:Base Metal Longitudinal *10-E-L:Emulsion *11-S-N:Scam Normalizing

*C:GOOD *Tr:Trace

*RE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTABLE.

*THE USE OF THE MATERIAL OUTSIDE THE SPECIFICATIONS INDICATED ON THIS CERTIFICATE MAY CAUSE SAFETY AND/OR WARETEAR PROBLEMS. FURTHERMORE, ANY ORGANIZATION OR PERSON(S) WHO DELIBERATELY MODIFIES THE CERTIFICATE WILL BE PROSECUTED FOR FORGING AN OFFICIAL DOCUMENT (ACCORDING TO THE PROVISIONS OF THE CRIMINAL CODE 231)

Surveyor : Manager of Q.M Dept.

THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1 (ISO 10474 3.1.B)

N. J. Back



5" SCH 80



HLD CLARK STEEL PIPE CO., INC.

MILL TEST CERTIFICATE

ORIGINAL

ADD: BUILDING NO. 113988, INDUSTRIAL PARK, ALABANG, MARIKINA CITY, RIZAL, PHILIPPINES
SOUTH CLARK FREEPORT ZONE, CANTERBURY, CANTERBURY, PHILIPPINES
Tel: 0065-454991301, Fax: 0065-454991382

Purchase Order: 662/M72030944

Standard: ASTM A53 GR. B-2012

Description: E.R.W. STEEL PIPE, ASTM A53, GR. B, SCH 40/80, BLACK PLAIN / BEVELED END

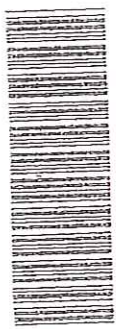
Shipping Mark: P.O. 662/M72030944, VANCOUVER

Certificate No.: 2013F06047
Date of Issue: Jun.24,2013

Dimension			Quantity			Chemical Composition												Mechanical Properties				Hydro		Seam		Appearance			
NPS	OD	Wall	Leng th	Weight ton	Bals	Pes	Grade	Heat Number	C	Si	Mn	P	S	Cu	Cr	Ni	Mo	V	Ti	Nb	Y.S.	T.S.	Weld T.S.	El.	Flattening/ Bend Test	Test (5s) PSI	NDT	Treated	and Dispersion
1-1/2	1.900"	SCH40	21'	1.866	2	72	B	J5100820	0.18	0.06	0.40	0.014	0.003	0.018	0.013	0.005	0.002	0.002	0.002	0.010	370	490	—	33	GOOD	1300	GOOD	GOOD	GOOD
2-1/2	2.875"	SCH40	21'	0.905	1	18	B	0282002909	0.14	0.02	1.10	0.013	0.008	0.008	0.030	0.028	0.002	0.002	0.002	0.011	370	450	—	35	GOOD	2500	GOOD	GOOD	GOOD
6	6.625"	SCH40	21'	5.065	4	28	B	J3100815	0.18	0.19	0.60	0.012	0.010	0.014	0.011	0.012	0.002	0.002	0.006	0.008	340	470	—	38	GOOD	1750	GOOD	GOOD	GOOD
5	5.563"	SCH80	21'	1.386	1	7	B	2005608	0.17	0.16	0.51	0.018	0.008	0.009	0.014	0.010	0.002	0.002	0.005	0.007	390	500	—	32	GOOD	2800	GOOD	GOOD	GOOD

We hereby certify that the material described has been manufactured, inspected and tested in accordance with above standard & specification, and satisfied with the requirements.

HLD CLARK STEEL
PIPE CO., INC.
QC Manager:



0720008992

INDUSTRIAL CO., LTD.

MILITARY CERTIFICATE

Add: Cichan Village, Longgang District, Hainan City,
 Liaoning Province, China Post code: 125003
 Tel: 86 429-2058666 Fax: 86 429-2058333

Contract NO.:287/M72032446

Standard: ASTM A53(2007) GR. B/A, SMI SA 53(2004) GR. B/A, P151,(2007)B

Description: E.R.W. STITZL PINE, ASTM A53, GR. B/ASME SA 53 GR. B/API 5 L.B, STD, BLACK LACQUER BEVELED END

Shipping Material: O.287/M7203246 VANCORVER

Certificate No.: 201308054
Date of issue: Aug.13,2013

[illegible]

We hereby certify that the material described has been manufactured, inspected and tested in accordance with above standard & specification, and satisfied with the requirements.

QC Manager



072000094.88



产 品 质 量 证 明 书
MILL TEST CERTIFICATE

(EN10204 3.1)

无锡市滨湖区胡埭工业园西区西拓振湖路
Tel: (0510)85580556 Fax: (0510)85580556

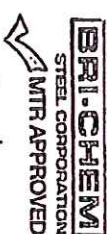
无锡华友特钢有限公司
Wuxi Huayou Special Steel Co., Ltd

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05/02



63A016704



订货单位					证书号	12022219		制造方法	热轧
CUSTOMER	BRI-CHEM STEEL CORPORATION				CERTIFICATE NO.			MAKING METHOD	HOT-ROLLED
收货单位	BRI-CHEM STEEL CORPORATION				信用证号	—		交货状态	热轧态
PURCHASER					LC NO.			DELIVERY CONDITION	AS-ROLLED
产品名称	无缝钢管				合同号	100688		热处理工艺	—
PRODUCT	SEAMLESS STEEL PIPES				CONTRACT NO.			HEAT TREATMENT	—
标准钢级	API 5L-B(2007) PSL1/ASTM/AASME A5A106-06 B/C5A Z245.1 GR.290 CAT 1 NACE MR0175-2009 REGION 3 SS				DATE OF ISSUE		2012-3-7		
SPEC/GRADE					总支数	2192		总米数	总重量(吨)
外径	114.3 MM	壁厚	6.02 MM	长度	TOTAL PIECES (PCS)		TOTAL METERS (M)	TOTAL WEIGHT(TONS)	
O.D	NPS 4	W.T.	STD	LENGTH	6.1 M		13371.2	215.035	

化 学 成 份 %																				非金属夹杂物 (级)			
CHEMICAL COMPOSITION																				Non-Metallic Inclusions (GR)			
序号 NO.	生产批号 WORK NO.	炉号 HEAT NO.	支数 PCS	*1	碳	硅	锰	磷	硫	铜	镍	铬	钼	钒	硼	铌	钛	Mn/C	CE(CSA)	A	B	C	D
					C	Si	Mn	P	S	Cu	Ni	Cr	Mg	V	B	Nb	Ti					≤2.5	≤2.5
1	120219	Y22354	2192	H	0.190	0.230	0.530	0.008	0.008	0.057	0.011	0.014	0.002	0.002	0.0002	0.002	0.001	2.8	0.29	0.5	0.5	0.5	0.5
拉伸试验 TENSILE TEST																				金相试验			
标准 GAUGE LENGTH (50.8mm)																				METALLOGRAPHIC			
冲击试验 IMPACT TEST																							
AKV (J)																							
试验温度 TEMPERATURE OF TEST																							
10x10x55 (20℃)																							
硬度试验																							
HARDNESS TEST (HRC≤22)																							
(HB≤234)																							
水压试验																							
HYDROSTATIC TEST																							
涡流探伤																							
E.T.																							
超声波探伤																							
U.T.																							
显微组织																							
MICROSTRUCTURE																							
晶粒度 (级)																							
GRAIN SIZE																							
1	L	475 / 485	310 / 320	26 / 28	0.65 / 0.66	-	-	-	-	-	-	HB	127/136/130	18.4	MPa, 10s	合格	合格	合格	合格	F+P	6		
外观和尺寸																				合格			
VISUAL & DIMENSION																				GOOD			
FLATTENING TEST																				合格			
BENDING TEST																				合格			
*1、H: HEAT (LADLE) ANALYSIS; P: PRODUCT ANALYSIS.																				合格			
*2、试样尺寸大小: 弧形试样 STRIP T×25.4mm.																				合格			
*3、试验方向 ORIENTATION: L=纵向 LONGITUDINAL.																				合格			
*4、SY=0.2% OFFSET.																				合格			
WE HEREBY CONFIRM THAT OUR PRODUCTS ARE MADE WITH MATERIALS WHICH ARE FREE FROM RADIATION CONTAMINATION																				合格			
兹证明本表所列产品, 均依标准规定制造、取样、试验和检验, 并符合标准及合同要求.																				合格			
SURVEYOR																				合格			
INSPECTOR																				合格			
STAMP OF MILL INSPECTOR																				合格			



华友特钢
HUAYOU SPECIAL STEEL

无锡市华友特钢有限公司
Wuxi Huayou Special Steel Co., Ltd.

产品质量证明书

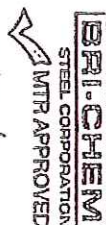
MILL TEST CERTIFICATE

(EN10204 3.1)

Page 2 / 3

无锡市滨湖区胡埭工业园西区西拓振湖路
Tel: (0510)85580556 Fax: (0510)85580556

02/05/02



订货单位	BRI-CHEM STEEL CORPORATION		证书号	12022219	制造方法	热轧
CUSTOMER			CERTIFICATE NO.		MAKING METHOD	HOT-ROLLED
收货单位	BRI-CHEM STEEL CORPORATION		信用证号	-	交货状态	热轧态
PURCHASER			LC NO.		DELIVERY CONDITION	AS-ROLLED
产品名称	无缝钢管		合同号		热处理工艺	-
PRODUCT	SEAMLESS STEEL PIPES		CONTRACT NO.	100688	HEAT TREATMENT	-
标准/规格	API 5L -B(2007) PSL1/ASTM A534-106-06 B/CSA Z245.1 GR.290 CAT 1 NACE MR0175-2009 REGION 3 SS		总支数	2192	总米数	2012-3-7
SPEC/GRADE			TOTAL PIECES (PCS)		TOTAL METERS (M)	215.035
外径	114.3 MM	壁厚	6.02 MM	长度	6.1 M	
O.D	NPS 4	W.T.	STD	LENGTH		

序号 NO.		生产批号 WORK NO.	炉号 HEAT NO.	支数 PCS	化 学 成 份 %																	非金属夹杂物 (级)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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					*1	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	B	Nb	Ti	Mn/C	CE(CSA)	A	B	C	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1	120219	Y22354	2192	H	0.190	0.230	0.530	0.008	0.008	0.057	0.011	0.014	0.002	0.002	0.0002	0.002	0.001	2.8	0.29	0.5	0.5	0.5	0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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					标距 GAUGE LENGTH (50.8mm)				屈服强度				冲击试验 IMPACT TEST AKV (J)				硬度试验 HARDNESS TEST (HRC≤22) (HB≤234)				水压试验 HYDROSTATIC TEST				N.D.E.				METALLOGRAPHIC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					*2	抗拉强度	屈服强度	伸长率	屈强比	试验温度 TEMPERATURE OF TEST				10×10×55 (20℃)				屈服探伤 E.T.				超声波探伤 U.T.				显微组织 MICROSTRUCTURE				晶粒度 (级) GRAIN SIZE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
					*3	T.S.	Y.S.	E.L.	Y/T																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Max						0.93				1				2				3				AVG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Min		415				290				23.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
1		L	475 / 485		310 / 320		26 / 28		0.65 / 0.66		-		-		-		-		HB		127/136/130		18.4		MPa, 10s		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格		合格	

ИНТЕРПАЙП НИКО ТЬЮБ

ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ
"ИНТЕРПАЙП НИКО ТЬЮБ"
Украина, г. Никополь, пр. Трубников, 56
Тел./факс +38 (05662) 2-10-70

134744

ИНСПЕКЦИОННЫЙ СЕРТИФИКАТ
INSPECTION CERTIFICATE
EN 10204:2004/3.1



5L-0409

Заказчик
Customer

Страна
Country USA
№ транспортного средства
№ vehicle 88510478

Сертификат №
Certificate № 5060

Контракт №
Contract № NORTH 08-1991
(3-3 08-1546)
Лист
Sheet 1 Листов
Sheets 1

ТРЕБОВАНИЯ
REQUIREMENTS

API 5L-2004 (PSL1)/ASTM A106/A 106M-2006/
ASME SA106-2007/ASTM A53/A 53M-2007/
ASME SA53-2005/HACE MR 0175-2002

Вид труб
Type of tubes

HOT FINISHED SEAMLESS
STEEL PIPES

Класс поставки
Class of delivery PSL-1

Состояние поставки (поверхность)
Delivery condition (surface)
PIPES HAVE CAPS.
PIPES ARE COATED WITH BLACK VARNISH

№ поз. Item №	Марка стали Steel grade		Номера поставки Lots numbers	Номера порядка Lots numbers	Размеры Dimensions					шт. QTY, pcs.	Количество Quantity		Масса weight			
	краткое обозн. brief designatio on	номер матери ала material number			диаметр diameter		толщина стенки wall thickness		длина length		м m		фут ft			
					мм mm	дюйм inch	мм mm	дюйм inch	мм mm		фут ft	брутто gross	нетто net	брутто gross	нетто net	
1. Gr.B/X42		P025068	5318	114,3	4.500	6,0	0.237		DRL	80	935,20	3 068,0	15 580	15 530	34 348	34 235
2. "		P024782	5351	114,3	4.500	6,0	0.237			48	563,04	1 847,0	9 420	9 390	20 768	20 702
3. "		P025064	5334	114,3	4.500	6,0	0.237			64	747,52	2 453,0	12 550	12 510	27 668	27 580
4. "		P014713	5320	114,3	4.500	6,0	0.237			64	749,76	2 460,0	12 550	12 510	27 668	27 580
5. "		P025066	5336	114,3	4.500	6,0	0.237			16	186,56	612,0	3 125	3 115	6 889	6 867
6. Gr.B/X42		P025065	5335	114,3	4.500	6,0	0.237		DRL	48	561,76	1 843,0	9 410	9 380	20 746	20 679
					NPS 4		SCH 40									
TOTAL:										320	3 743,84	12 283,0	62 635	62 435	138 087	137 646
BUNDLES:										20						

Сертификат №
Certificate № 5080

Лист
Sheet 1

Листов
Sheets 1

ХИМИЧЕСКИЙ СОСТАВ % - CHEMICAL COMPOSITION %

Номера проб Numbers of Heats	C x100	Si x100	Mn x100	S x1000	P x1000	Cr x100	Ni x100	Ti x1000	Mo x1000	Cu x100	V x1000	Nb x1000	CE max 0,43%	Заметки
1.P814713	21	28	53	22	12	1	2	0	0	3	0	0	0,30	ДНК
2.P814713	25	19	47	29	22	2	2	2	2	4	0,6	1	0,34	ДНК
3.P814713	20	19	46	28	22	2	2	2	2	4	0,5	1	0,29	ДНК
1.P824782	20	19	51	30	15	1	2	0	0	3	0	0	0,31	ДНК
2.P824782	21	26	54	24	14	2	2	2	2	4	0,6	1	0,30	ДНК
3.P824782	20	29	54	23	16	2	2	0	0	4	0	0	0,31	ДНК
1.P825064	21	21	57	22	16	2	2	2	2	4	0,8	1	0,33	ДНК
2.P825064	23	22	57	24	14	2	2	2	2	4	0,7	1	0,34	ДНК
3.P825064	21	22	57	24	14	2	2	2	2	4	0	0	0,32	ДНК
1.P825068	22	23	63	21	15	2	2	0	0	3	0,5	1	0,32	ДНК
2.P825068	22	20	54	25	13	1	1	2	2	3	0,6	1	0,33	ДНК
3.P825068	23	21	54	25	14	1	1	0	0	3	0	0	0,32	ДНК
1.P825065	22	23	54	22	16	2	1	2	2	3	0,7	1	0,32	ДНК
2.P825065	22	21	55	26	15	2	1	2	2	3	0,7	1	0,32	ДНК
3.P825065	22	20	54	22	14	1	1	0	0	3	0	0	0,32	ДНК
1.P825066	22	20	55	21	13	1	2	2	2	3	0,5	1	0,32	ДНК
2.P825066	22	20	55	24	14	1	1	2	2	3	0,5	1	0,32	ДНК
3.P825066	22	20	55	23	14	1	1	2	2	3	0,5	1	0,32	ДНК

Heat analysis acc.to the manufacturer certificate.
2.3-control analysis of pipes.

РЕЗУЛЬТАТЫ ИСПЫТАНИЙ - TEST RESULTS

Механические свойства - Mechanical properties

Номер позиции Position №	Номер партии Lots numbers	Условный предел прочности Conventional yield strength	Предел прочности при растяжении на разрыв Tensile strength	Относительное удлинение Percent elongation	Испытания на твердость NACE MR-0175-02	Примечания Notes
		Н/мм ² /N/mm ² PSI	Н/мм ² /N/mm ² PSI	%	Hardness Test Acc.to NACE MR- 0175-02	
		min 290 min 42 000	min 415 min 60 000		max 22HRC	
1.	5318	331 43 000 200	600 73 000 480	34,0	< 22HRC	
	Heat P825068	42 000 349	70 000 531	36,0		
2.	5351	51 000 320	77 000 490	33,0	< 22HRC	
	Heat P824782	46 000 308	71 000 491	34,0		
3.	5334	45 000 301	71 000 494	31,0	< 22HRC	
	Heat P825064	44 000 331	72 000 534	36,0		
4.	5320	48 000 309	77 000 457	35,0	< 22HRC	
	Heat P814713	43 000 280	66 000 499	34,0		
5.	5336	42 000 335	72 000 518	34,0	< 22HRC	
	Heat P825066	49 000 317	75 000 488	30,0		
6.	5335	40 000 302	70 000 489	31,0	< 22HRC	
	Heat P825065	44 000	71 000	36,0		

Longitudinal stripe sample, 25,4mm/ 1" width
Calculated length 60,8 mm/2"

Трубы испытаны согласно требованиям API 5L-2004 (PSL1)/ASTM A106/A 106M-2006/ASME SA106-2007/ASTM A53/A 53M-2007/ASME SA53-2005/NACE MR 0175-2002, результаты удовлетворительные.
Tubes test according to requirements API 5L-2004 (PSL1)/ASTM A106/A 106M-2006/ASME SA106-2007/ASTM A53/A 53M-2007/ASME SA53-2005/NACE MR 0175-2002, result satisfactory.

Термообработка: НЕТ

Heat treatment: NO

Герметичности: ГИДРОИСПЫТАНИЕ УДОЛЕТВОРИТЕЛЬНО, ИСПЫТАТЕЛЬНОЕ ДАВЛЕНИЕ 18,3МПа/2650PSI

ВРЕМЯ ВЫДЕРЖКИ НЕ МЕНЕЕ 6 СЕКУНД

Leak-proofness: HYDROSTATIC TEST SATISFACTORY MINIMUM HYDRO-PRESSURE 18,3MPa/2650PSI

DURATION NOT LESS THEN 6SEC.

Технологические свойства- Technological properties

Pipes are beveled.

Pipes are ballening testing with satisfactory result.

Ремонт сваркой запрещен.

Weld repair isn't permitted.

Настоящим подтверждаем, что товар, описанный выше, был испытан и соответствует требованиям заказа контракта.
We hereby certify, that the material described above has been tested and complies with the terms of the order contract.

文件编号: 23 总数量: 230 总重量: 23000kg 日期: 2008年08月06日 合同编号: TISF08-121A AND 121B 许可证号: 11004552-2		产品名称: NEWLY PRODUCED PRIME QUALITY SEAMLESS STEEL PIPE 规格: 1219mm 交货状态: Delivery Status 许可证书: License No. 0503	
化学成分 (Chemical Composition) 牌号: C 0.25 规格: 1219mm 交货状态: Delivery Status 许可证书: License No. 0503		力学性能 (Mechanical Properties) 屈服强度: 355 MPa 抗拉强度: 455 MPa 伸长率: 22% 冲击功: 27 J	
尺寸规格 (Dimensions) 外径: 1219mm 壁厚: 10mm 长度: 12000mm 重量: 23000kg		无损检测 (Non-destructive Testing) 射线检测: RT 超声波检测: UT 磁粉检测: MT 渗透检测: PT	
热处理 (Heat Treatment) 炉温: 850°C 保温时间: 2h 冷却速度: 10°C/s 回火温度: 700°C		金相分析 (Metallography Analysis) 组织: 铁素体+珠光体 晶粒度: 8级 夹杂物: 符合GB/T 17505	
备注 (Remarks) 1. 本证书的有效性依赖于买方提供的材料化学成分和力学性能数据。 2. 本证书的有效性依赖于买方提供的材料化学成分和力学性能数据。 3. 本证书的有效性依赖于买方提供的材料化学成分和力学性能数据。		其他信息 (Other Information) 生产厂家: 天津钢管集团 检验人员: 张才志 审核人: 张才志	



TUBE TEST REPORT

Form QA-003 12/02/09 - Rev 2

Page 1 of 1

ORDER: 045216	003	HEAT: 478760	P.O.: M31010407	PART NO.																																																												
SOLD TO: PIONEER STEEL & TUBE DISTR, 1660 LINCOLN STREET SUITE 2300 DENVER, CO 80264		SHIP TO: PIONEER STEEL & TUBE DISTRIBUTOR, I YARD 1 TRACK 750 PIPEMILL, UT 80264																																																														
SPECIFICATION(S): ASME ASTM SA53/A53-10 GR B/SA106/A106-11 GR B API 5L PSL 1 GR B/X42 FORTY-FOURTH EDITION CERTIFIED NACE MR0175 DATED 10-15-2009																																																																
GRADE: 1023M	SIZE: 3.500 X 0.216	DRL	WPF: 7.68	QUALITY: SEAMLESS HOT FINISH																																																												
CONDITION (SPECIAL): ELECTRIC FURNACE FINE GRAIN MELT PRACTICE TEST METHODS USED: ASTM E415 TEST RESULTS CONFORM TO THE STANDARDS AND SPECIFICATION LISTED ABOVE.																																																																
<table border="1"><thead><tr><th></th><th>C</th><th>Mn</th><th>S</th><th>P</th><th>Si</th><th>Cr</th><th>Ni</th><th>Mo</th><th>Cu</th><th>Al</th><th>V</th><th>Co</th><th>Ti</th><th>B</th></tr></thead><tbody><tr><td>L</td><td>.21</td><td>.64</td><td>.004</td><td>.008</td><td>.36</td><td>.14</td><td>.11</td><td>.05</td><td>.20</td><td>.100</td><td>.005</td><td>.001</td><td>.0020</td><td>.0002</td></tr><tr><td>P</td><td>.21</td><td>.64</td><td>.004</td><td>.009</td><td>.33</td><td>.13</td><td>.10</td><td>.05</td><td>.20</td><td>.007</td><td>.003</td><td>.001</td><td>.0020</td><td>.0003</td></tr><tr><td>P</td><td>.21</td><td>.64</td><td>.004</td><td>.009</td><td>.34</td><td>.14</td><td>.10</td><td>.05</td><td>.20</td><td>.010</td><td>.003</td><td>.002</td><td>.0020</td><td>.0005</td></tr></tbody></table>						C	Mn	S	P	Si	Cr	Ni	Mo	Cu	Al	V	Co	Ti	B	L	.21	.64	.004	.008	.36	.14	.11	.05	.20	.100	.005	.001	.0020	.0002	P	.21	.64	.004	.009	.33	.13	.10	.05	.20	.007	.003	.001	.0020	.0003	P	.21	.64	.004	.009	.34	.14	.10	.05	.20	.010	.003	.002	.0020	.0005
	C	Mn	S	P	Si	Cr	Ni	Mo	Cu	Al	V	Co	Ti	B																																																		
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MATERIAL 100% MELTED AND MANUFACTURED IN THE USA.																																																																
Specimen ASTM A	EUL	Yield KSI	Tensile KSI	ELNG 2"	R/A	C.E.	Rockwell ASTM E18 Avg		Hydrotest																																																							
.750" STR	0.5	56.8	79.8	33.0		.38	74.6 79.9 79.8 70.1 RB		3000 PSI 6 Sec Hold																																																							
FLAT(S) - SATISFACTORY EN 10204 TYPE 3.1b DATED 01-2005 EMI INSPECTION - SATISFACTORY					12/10/12 DATE					QUALITY ASSURANCE/KOPPEL																																																						
MATERIAL WAS NOT EXPOSED TO MERCURY DURING PROCESSING. NO WELDING OR WELD REPAIR PERFORMED ON THIS MATERIAL. MATERIAL IS FREE OF HARMFUL RADIATION.					THIS CERTIFICATION MAY NOT BE REPRODUCED EXCEPT IN FULL.																																																											

IPSCO KOPPEL WORKS
P.O. BOX 750
BEAVER FALLS, PA 15010

IPSCO AMBRIDGE WORKS
P.O. BOX 410
AMBRIDGE, PA 15003

IPSCO BAYTOWN WORKS
2800 SPUR 65
BAYTOWN, TX 77623



TUBE TEST REPORT

Form QA-003 12/02/09 - Rev 2
Page 1 of 1

ORDER: 048178 002	HEAT: 479998	P.O.: M31010423	PART NO.																																																								
SOLD TO: PIONEER STEEL & TUBE 1660 LINCOLN STREET SUITE 2300 DENVER, CO 80264		SHIP TO: PIONEER STEEL & TUBE DISTRIBUTOR, I 2321 INDUSTRIAL AVENUE SIDNEY, NE 68162																																																									
SPECIFICATION(S): ASME ASTM SA53/A53-12 GR B/SA106/A106-11 GR B API 5L PSL1 GR B/X42 FORTY FOURTH EDITION CERTIFIED NACE MR0175 DATED 10-15-2009																																																											
GRADE: 1023M	SIZE: 3.500 X 0.216 DRL	WPF: 7.58	QUALITY: SEAMLESS HOT FINISH																																																								
CONDITION (SPECIAL): ELECTRIC FURNACE FINE GRAIN MELT PRACTICE TEST METHODS USED: ASTM E415 TEST RESULTS CONFORM TO THE STANDARDS AND SPECIFICATION LISTED ABOVE.																																																											
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FLAT(S) - SATISFACTORY EN 10204 TYPE 3.1b DATED 01-2005 EMI INSPECTION - SATISFACTORY																																																											
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IPSCO KOPPEL WORKS
P.O. BOX 750
BEAVER FALLS, PA 15010

IPSCO AMBRIDGE WORKS
P.O. BOX 410
AMBRIDGE, PA 15003

IPSCO BAYTOWN WORKS
2600 SPUR 55
BAYTOWN, TX 77523



**ИНТЕРПАЙП
НИКОТЮБ**

ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ
"ИНТЕРПАЙП НИКОТЮБ"
Украина, г. Никополь, пр. Трубников, 56
Тел./факс +38 (05662) 2-10-70

134744

ИНСПЕКЦИОННЫЙ СЕРТИФИКАТ
INSPECTION CERTIFICATE
EN 10204:2004/3.1



5L-0409

Заказчик
Customer

Страна
Country USA

№ транспортного средства
No vehicle 88510478

Сертификат №
Certificate No

5060

Контракт №
Contract No

NORTH-08-1991
(3-3 08-1546)

Лист
Sheet 1

Листов
Sheets 1

ТРЕБОВАНИЯ
REQUIREMENTS

API 5L-2004 (PSL1)/ASTM A106/A 106M-2006/
ASME SA108-2007/ASTM A53/A 53M-2007/
ASME SA53-2005/NACE MR 0175-2002

Вид труб
Type of tubes

HOT FINISHED SEAMLESS
STEEL PIPES

Класс поставки
Class of delivery

PSL-1

Состояние поставки (поверхность)
Delivery condition (surface)

PIPES HAVE CAPS.
PIPES ARE COATED WITH BLACK VARNISH

Type of tubes		Размеры Dimensions										Количество Quantity						
№ поз. Item No	Марка стали Steel grade		Номера поставки Lots numbers	Номера сертификата Certificates numbers	Диаметр diameter		Толщина стенки wall thickness		Длина length		шт. Qty, pcs	Масса mass		Вес weight		ТОТАЛ TOTAL		
	краткое обозначение brief designation	полное наименование материала material name			мм mm	дюйм inch	мм mm	дюйм inch	мм mm	фут ft		м m	фут ft	брутто gross	нетто net		брутто gross	нетто net
1.	Gr.B/X42	P825068	5318	114,3	4,500	6,0	0,237	DRL	80	935,20	3 088,0	15 580	15 530	34 348	34 236			
2.	"	P824782	5351	114,3	4,500	6,0	0,237		48	563,04	1 847,0	9 420	9 390	20 768	20 702			
3.	"	P825064	5334	114,3	4,500	6,0	0,237		64	747,62	2 483,0	12 550	12 510	27 638	27 580			
4.	"	P014713	5320	114,3	4,500	6,0	0,237		64	749,76	2 460,0	12 550	12 510	27 668	27 580			
5.	"	P825066	5336	114,3	4,500	6,0	0,237		16	186,56	612,0	3 125	3 115	6 889	6 867			
6.	Gr.B/X42	P825065	5335	114,3	4,500	6,0	0,237	DRL	48	561,76	1 843,0	9 410	9 380	20 748	20 676			
					NPS 4		SCH 40		TOTAL:		320	3 743,84	12 283,0	62 635	62 435	138 087		
									BUNDLES:		20					137 646		

Сертификат №
Certificate № 5060

Лист
Sheet 1

Листов
Sheets 1

ХИМИЧЕСКИЙ СОСТАВ % - CHEMICAL COMPOSITION %

Номера пробок Numbers of Heats	C x100	Si x100	Mn x100	S x1000	P x1000	Cr x100	Ni x100	Ti x1000	Mo x1000	Cu x100	V x1000	Nb x1000	CE max 0,43%	З-д вста- вщик А
1.P814713	21	26	53	22	12	1	2	0	0	3	0	0	0,30	ДМК
2.P814713	25	19	47	20	22	2	2	2	2	4	0,5	1	0,34	ДМК
3.P814713	20	19	46	28	22	2	2	0	0	3	0	0	0,29	ДМК
1.P824782	20	19	51	30	15	1	2	2	2	4	0,5	1	0,31	ДМК
2.P824782	21	26	54	24	14	2	2	2	2	4	0,6	1	0,30	ДМК
3.P824782	20	28	54	23	13	2	2	0	0	4	0	0	0,31	ДМК
1.P825064	21	21	57	22	16	2	2	2	2	4	0,6	1	0,33	ДМК
2.P825064	23	22	57	24	14	2	2	2	2	4	0,7	1	0,34	ДМК
3.P825064	21	22	57	24	14	2	2	2	2	4	0	0	0,32	ДМК
1.P825068	22	23	63	21	15	2	2	1	3	3	0,5	1	0,33	ДМК
2.P825068	22	20	54	22	13	1	1	2	2	3	0,6	1	0,32	ДМК
3.P825068	23	21	54	25	14	2	1	0	0	3	0	0	0,32	ДМК
1.P825065	22	23	54	22	16	2	1	2	2	3	0,7	1	0,32	ДМК
2.P825065	22	21	55	25	15	2	1	2	2	3	0,7	1	0,32	ДМК
3.P825065	22	20	54	22	14	1	2	0	0	3	0	1	0,32	ДМК
1.P825066	22	20	55	21	13	1	2	2	2	3	0,5	1	0,32	ДМК
2.P825066	22	20	55	24	14	1	1	2	2	3	0,5	1	0,32	ДМК
3.P825066	22	20	55	23	14	1	1	2	2	3	0,5	1	0,32	ДМК

1. Heat analysis acc. to the manufacturer certificate.
2.3. control analysis of pipes.

РЕЗУЛЬТАТЫ ИСПЫТАНИЙ - TEST RESULTS

Механические свойства - Mechanical properties

Номер пробы Proben №	Номер партии Lots numbers	Условный предел прочности Conventional yield strength	Предел прочности при растяжении на разрыв Tensile strength	Относительное удлинение Percent elongation	Испытания на твердость NACE MR-0175-02	Примечания Note
		Н/мм² / N/mm² PSI	Н/мм² / N/mm² PSI	%	Hardness Test Acc. to NACE MR- 0175-02	
		min 290 min 42 000	min 415 min 60 000		max 22HRC	
1.	5318	331 43 000	600 73 000	34,0	< 22HRC	
	Heat P825068	290 42 000	480 70 000	36,0		
2.	5351	348 51 000	531 77 000	33,0	< 22HRC	
	Heat P824782	320 46 000	490 71 000	34,0		
3.	5334	308 45 000	491 71 000	31,0	< 22HRC	
	Heat P825064	301 44 000	494 72 000	36,0		
4.	5320	331 43 000	534 77 000	35,0	< 22HRC	
	Heat P814713	309 43 000	457 66 000	34,0		
5.	5336	290 42 000	499 72 000	34,0	< 22HRC	
	Heat P825066	335 49 000	518 75 000	30,0		
6.	5335	317 40 000	486 70 000	31,0	< 22HRC	
	Heat P825065	302 44 000	489 71 000	36,0		

Longitudinal stripe sample, 25,4mm/ 1" width
Calculated length 50,8 mm/2"

Трубы испытаны согласно требованиям API 5L-2004 (PSL1)/ASTM A106/A 106M-2006/ASME SA106-2007/ASTM A53/A 53M-2007/ASME SA53-2005/NACE MR 0175-2002, результаты удовлетворительные.
Tubes test according to requirements API 5L-2004 (PSL1)/ASTM A106/A 106M-2006/ASME SA106-2007/ASTM A53/A 53M-2007/ASME SA53-2005/NACE MR 0175-2002, result satisfactory.

Термообработка: НЕТ
Heat treatment: NO
Герметичность: ГИДРОИСПЫТАНИЕ УДОВЛЕТВОРИТЕЛЬНО, ИСПЫТАТЕЛЬНОЕ ДАВЛЕНИЕ 18,3МПа/2650PSI
ВРЕМЯ ВЫДЕРЖКИ НЕ МЕНЕЕ 5 СЕКУНД
LEAK-PROOFNESS: HYDROSTATIC TEST SATISFACTORY MINIMUM HYDRO-PRESSURE 18,3MPa/2650PSI
DURATION NOT LESS THEN 5SEC.

Технологические свойства- Technnological properties
Pipes are beveled.
Pipes are flattening testing with satisfactory result.

Ремонт сваркой запрещен.
Weld repair isn't permitted.

Настоящим подтверждаем, что товар, описанный выше, был испытан и соответствует требованиям заказа контракта.
We hereby certify, that the material described above has been tested and complies with the terms of the order contract.



TUBE TEST REPORT

Form QA-003 12/02/09 - Rev 2

Page 1 of 1

ORDER: 048178 002	HEAT: 479998	P.O. M31010423	PART NO.																																																								
SOLD TO: PIONEER STEEL & TUBE 1660 LINCOLN STREET SUITE 2300 DENVER, CO 80264		SHIP TO: PIONEER STEEL & TUBE DISTRIBUTOR, I 2321 INDUSTRIAL AVENUE SIDNEY, NE 68102																																																									
SPECIFICATION(S): ASME ASTM SA53/A53-12 GR B/SA106/A106-11 GR B API 5L PSL1 GR B/X42 FORTY FOURTH EDITION CERTIFIED NACE MR0175 DATED 10-15-2009																																																											
GRADE: 1023M	SIZE: 3.500 X 0.216 DRL	WPF: 7.50	QUALITY: SEAMLESS HOT FINISH																																																								
CONDITION (SPECIAL): ELECTRIC FURNACE FINE GRAIN MELT PRACTICE TEST METHODS USED: ASTM E415 TEST RESULTS CONFORM TO THE STANDARDS AND SPECIFICATION LISTED ABOVE.																																																											
<table border="1"><thead><tr><th>C</th><th>Mn</th><th>S</th><th>P</th><th>Si</th><th>Cr</th><th>Ni</th><th>Mo</th><th>Cu</th><th>Al</th><th>V</th><th>Co</th><th>Ti</th><th>B</th></tr></thead><tbody><tr><td>.22</td><td>.64</td><td>.003</td><td>.007</td><td>.29</td><td>.12</td><td>.10</td><td>.04</td><td>.23</td><td>.019</td><td>.004</td><td>.001</td><td>.0020</td><td>.0002</td></tr><tr><td>.22</td><td>.62</td><td>.002</td><td>.007</td><td>.28</td><td>.12</td><td>.09</td><td>.03</td><td>.20</td><td>.016</td><td>.002</td><td>.001</td><td>.0020</td><td>.0004</td></tr><tr><td>.21</td><td>.60</td><td>.003</td><td>.007</td><td>.27</td><td>.12</td><td>.09</td><td>.03</td><td>.19</td><td>.012</td><td>.002</td><td>.001</td><td>.0020</td><td>.0002</td></tr></tbody></table>				C	Mn	S	P	Si	Cr	Ni	Mo	Cu	Al	V	Co	Ti	B	.22	.64	.003	.007	.29	.12	.10	.04	.23	.019	.004	.001	.0020	.0002	.22	.62	.002	.007	.28	.12	.09	.03	.20	.016	.002	.001	.0020	.0004	.21	.60	.003	.007	.27	.12	.09	.03	.19	.012	.002	.001	.0020	.0002
C	Mn	S	P	Si	Cr	Ni	Mo	Cu	Al	V	Co	Ti	B																																														
.22	.64	.003	.007	.29	.12	.10	.04	.23	.019	.004	.001	.0020	.0002																																														
.22	.62	.002	.007	.28	.12	.09	.03	.20	.016	.002	.001	.0020	.0004																																														
.21	.60	.003	.007	.27	.12	.09	.03	.19	.012	.002	.001	.0020	.0002																																														
MATERIAL 100% MELTED AND MANUFACTURED IN THE USA.																																																											
Specimen ASTM E8	EUL	Yield KSI	Tensile KSI	ELNG 2"	RA	C.E.	Rockwell ASTM E18 Avg		Hydrotest																																																		
.750" STR	0.5	57.6	77.6	32.0		.38	80.5 79.9 80.0 80.4 RB		3000 PSI 5 Sec Hold																																																		
FLAT(S) - SATISFACTORY EN 10204 TYPE 3.1b DATED 01-2005 EMI INSPECTION - SATISFACTORY																																																											
				5/8/13				DATE QUALITY ASSURANCE/KOPPEL																																																			
				MATERIAL WAS NOT EXPOSED TO MERCURY DURING PROCESSING. NO WELDING OR WELD REPAIR PERFORMED ON THIS MATERIAL. MATERIAL IS FREE OF HARMFUL RADIATION.																																																							
				THIS CERTIFICATION MAY NOT BE REPRODUCED EXCEPT IN FULL.																																																							

IPSCO KOPPEL WORKS
P.O. BOX 750
BEAVER FALLS, PA 15010

IPSCO AMBRIDGE WORKS
P.O. BOX 410
AMBRIDGE, PA 15003

IPSCO BAYTOWN WORKS
2800 SPUR 55
BAYTOWN, TX 77523

**ИНТЕРПАЙП
НИКО ТЬЮБ**

ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ
"ИНТЕРПАЙП НИКО ТЬЮБ"
Украина, г. Никополь, пр. Трубников, 56
Тел./факс +38 (05662) 2-10-70

134744

ИНСПЕКЦИОННЫЙ СЕРТИФИКАТ
INSPECTION CERTIFICATE
EN 10204:2004/3.1



Заказчик
Customer

Страна
Country USA

№ транспортного средства
№ vehicle

0175200

08020723

Сертификат №
Certificate №

6020

Контракт №
Contract №

NORTH, 00-1041
(3-3 00-1340)

Лист
Sheet 1

Листов
Sheets 1

ТРЕБОВАНИЯ
REQUIREMENTS

API 5L-2004 (PSL1)/ASTM A108/A 108M-2008/
ASME SA108-2007/ASTM A53/A 53M-2007/
ASME SA53-2008/NAOH JAR 0175-2002

Класс поставки
Class of delivery

PSL-1

Подтруб
Type of tubes

HOT FINISHED SEAMLESS
STEEL PIPES

Состояние поставки (поверхность)
Delivery condition (surface)
PIPES HAVE CAPS.
PIPES ARE COATED WITH BLACK VARNISH



№ п/п No	Маркировка Marking		Номер сертификата Certificate No	Номер сертификата Certificate No	Размеры Dimensions					№	Вес Weight		Количество Quantity			
	Внешний диаметр Outer diameter	Толщина стены Wall thickness			Внешний диаметр Outer diameter	Толщина стены Wall thickness	Внешний диаметр Outer diameter	Толщина стены Wall thickness	Внешний диаметр Outer diameter		Масса Net weight	Масса Gross weight	Внешний диаметр Outer diameter	Толщина стены Wall thickness	Внешний диаметр Outer diameter	Толщина стены Wall thickness
1.	Ø 168.3	4.00	0201	114.3	4.00	0.0	0.237	DRL	14	168.85	547.0	2.800	2.790	8.173	8.161	
2.	Ø 168.3	4.00	0202	114.3	4.00	0.0	0.237	DRL	14	168.85	547.0	2.800	2.790	8.173	8.161	
3.	Ø 168.3	4.00	0203	114.3	4.00	0.0	0.237	DRL	14	168.85	547.0	2.800	2.790	8.173	8.161	
TOTAL										289	3.601.80	11.085.0	69.710	69.628	131.849	131.230



**INTERPIPE
NIKO TUBE**

LIMITED LIABILITY COMPANY
"INTERPIPE NIKO TUBE"
UKRAINE, Nikopol, 56, Trubnikov ave. Tel./fax +38 (05662) 2-10-70

Сертификат №
Certificate No. 6020

Лист
Sheet 1

ХИМИЧЕСКИЙ СОСТАВ % - CHEMICAL COMPOSITION %														
Номера листов Numbers of Heats	C x100	Si x100	Mn x100	S x1000	P x1000	Cr x100	Ni x100	Y x1000	Mo x1000	Cu x100	V x1000	Nb x1000	CE max 0,43%	З-д постав- щик
1. P814550	21	24	53	22	17	2	2	0	0	3	0	0	0,31	ДМК
2. P814550	20	26	54	23	18	2	2	3	2	3	0,7	1	0,30	
3. P814550	21	26	54	26	20	2	2	3	2	3	0,7	1	0,31	
1. P812301	22	21	50	24	16	2	1	0	0	3	0	0	0,32	ДМК
2. P812301	23	20	54	26	19	2	2	3	2	3	0,5	1	0,33	
3. P812301	23	26	63	25	19	2	2	3	2	3	0,5	1	0,33	
1. P824847	20	19	64	24	19	2	2	0	0	3	0	0	0,30	ДМК
2. P824847	24	27	60	27	19	2	2	3	2	4	0,7	1	0,34	
3. P824847	22	26	54	28	18	2	2	3	2	4	0,5	1	0,32	

1. Heat analysis acc. to the manufacturer certificate.
2. 3. control analysis of pipes.

РЕЗУЛЬТАТЫ ИСПЫТАНИЙ - TEST RESULTS

Механические свойства - Mechanical properties						
Номер позиции Position No.	Номер партии Lot numbers	Условный предел текучести Conventional yield strength	Предел прочности при растяжении Tensile strength	Относительное удлинение Percent elongation	Испытания на твердость NACE MR-0175-02 Hardness Test Acc. to NACE MR- 0175-02	Примечания Note
		Н/мм ² /N/mm ² PSI	Н/мм ² /N/mm ² PSI	%		
		min 200 min 42 000	min 416 min 60 000		max 22HRC	

1. 60201	350	523	31,0	<22HRC
Heat P824847	52 000	76 000		
	351	503	34,0	
2. 70202	151 000	73 000	30,0	<22HRC
	304	614		
Heat P814550	53 000	76 000	32,0	
	299	463		
3. 60203	43 000	68 000	30,0	<22HRC
	374	609		
Heat P812301	64 000	74 000	36,0	
	292	505		
	42 000	73 000		

Longitudinal strip sample, 25,4mm 7/8" width
Calculated length 50,8 mm/2"

Трубы-испытания согласно требованиям API 6L-2004 (PSL1)/ASTM A106/A 106M-2006/ASME SA106-2007/ASTM A53/A 53M-2007/ASME SA53-2006/ASME MR 0175-2002, результаты удовлетворительные.
Tubes test according to requirements API 6L-2004 (PSL1)/ASTM A106/A 106M-2006/ASME SA106-2007/ASTM A53/A 53M-2007/ASME SA53-2006/ASME MR 0175-2002, result satisfactory.

Термообработка: НЕУ
Heat treatment: NO

Герметичность: ГИДРОИСПЫТАНИЕ УДОВЛЕТВОРИТЕЛЬНО, ИСПЫТАТЕЛЬНОЕ ДАВЛЕНИЕ 16,3MPa/2650PSI. ВРЕМЯ ВЫДЕРЖКИ НЕ МЕНЕЕ 5 СЕКУНД.
Leak-proofness: HYDROSTATIC TEST SATISFACTORY MINIMUM HYDRO-PRESSURE 16,3MPa/2650PSI DURATION NOT LESS THEN 5SEC.

Технологические спойеры - Technological properties
Pipes are beveled.
Pipes are flattening testing with satisfactory result.

Ремонт сваркой запрещен.
Weld repair isn't permitted.

На настоящим подтверждаем, что товар, описанный выше, был испытан и соответствует требованиям заказа контракта.
We hereby certify, that the material described above has been tested and complies with the terms of the order contract.

Дата
Date 20.08.2008г.

Инспектор
Inspector





JMC Steel Group

Wheatland Tube Division, USA

700 Dock St. Sharon, PA 16146 USA

Customer: PACIFIC HIDE & FUR DEPOT

Name:

Customer PO #: 2022318

Sales Order #: 0000493866

Delivery #: 80910818

Date of 9/27/2013

Creation:

Plant: EnergeX - Warren, OH

CERTIFIED MATERIAL TEST REPORT

Type 3. 1/3.1.B in accordance with EN 10204/ISO 10204/EN 10474/ISO 10474/DIN50049

Heat Analysis

Heat/Run	Value	Date	Item Description	C	Mn	P	S	CU	NI	Cr	Mo	V	SI	Al	T/S	V/S	EL
Heat#	C65230	5/1/2013	8.625 OD STD BLK A53-B ERW PE	.050	.550	.012	.002	.110	.040	.060	.010	.001	.120	.017	71467	66953	29
Heat#	C66645	9/4/2013	6.625 OD STD BLK A53-B ERW PE	.220	1.110	.011	.003	.090	.040	.060	.020	.001	0	0	32325	64465	29
Heat#	C66648	9/4/2013	6.625 OD STD BLK A53-B ERW PE	.220	1.120	.014	.004	.090	.040	.040	.020	.001	0	0	79740	60886	28

COMMENTS

This is to certify that the product described herein was manufactured or supplied by the Wheatland Tube Division, USA and sampled, tested and/or inspected in accordance with the latest revision, at the time of manufacture, of the specification listed above and fulfills the requirements in such respects. All the required mechanical, physical, hydrostatic, non-destructive, flattening, and bend tests have been successfully completed. The products described above meet one of the following specifications: Continuous Butt Weld Steel Pipe meeting the requirements of ASTM A53 2012/ASME SA53 2001 Type F, Grade A. Steel Coupling Stock meeting the requirements of ASTM A865. Electric Resistance Welded Steel Pipe meeting the requirements of ASTM A53 2012/ASME SA53 2001, Type E, Grade B. Electric Resistance Welded Steel Pipe meeting the requirements of ASTM A135 2009, Type E, Grade A. Electric Resistance Welded Steel Pipe meeting the requirements of ASTM A795 2012, Type E, Grade A. Seamless Pipe meeting the requirements of ASTM A106 2011/ASME SA106 2011 Seamless Carbon Steel Pressure Pipe Grades B&C and is acceptable to NACE standard MR0103-2012 Edition and MR0175/ISO 15156-2, 2009 Edition. Seamless Pipe is Nondestructive Electric Tested (full body eddy current). API pipe meeting the requirements of ANSI/API Specification 5L 45th Edition or ANSI/API Specification 5CT 9th Edition.

Michael S. Ryan

Michael S Ryan
Manager Technical Services



JMC Steel Group

Wheatland Tube Division, USA
700 Dock St Sharon, PA 16146 USA

CERTIFIED MATERIAL TEST REPORT

Type 3.1B in accordance with EN 1024/ISO 10204/ISO 10474/DIN 50040



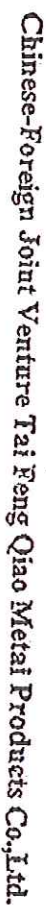
Customer Name: PACIFIC HIDE & FUR DEPOT
Customer PO Number: 2022318
Sales Order/Delivery: 0000493866/80913451
Date of Creation: 9/5/2013
Plant: Wheatland Tube - Wheatland, PA

Heat Analysis

Heat/Run	Value	Date	Item Description	C	Mn	P	S	CU	NI	Cr	Mo	V	SI	Al	T/S	Y/S	EI
Run/Sample	6511/20	8/24/2013	2 XHVV BLK A53 PIPE PE	.130	.550	.013	.018	.020	.010	.030	.010	.002	.010	.038	55180	35300	51
Run/Sample	6504/9	8/12/2013	4 XHVV BLK A53 PIPE PE	.120	.480	.006	.009	.050	.010	.040	.000	.000	.007	.053	54891	34204	50
Run/Sample	6499/14	8/6/2013	3 XHVV BLK A53 PIPE PE	.120	.480	.019	.011	.030	.010	.050	.002	.000	.006	.035	55474	33140	46
Run/Sample	6498/55	8/2/2013	1 1/2 XHVV BLK A53 PIPE PE	.130	.460	.009	.013	.023	.009	.045	.013	.001	.015	.034	53680	35820	46
Run/Sample	6501/9	8/5/2013	2 1/2 XHVV BLK A53 PIPE PE	.130	.450	.008	.014	.034	.013	.045	.005	.001	.018	.036	54970	34850	41
Run/Sample	6508/26	8/20/2013	1 XHVV BLK A53 PIPE PE	.120	.500	.010	.012	.045	.020	.040	.003	.000	.005	.042	56683	35347	50
Run/Sample	6494/71	7/23/2013	1 1/4 XHVV BLK A53 PIPE PE	.130	.420	.011	.010	.020	.010	.050	.000	.000	.007	.029	57478	36072	45
Run/Sample	6500/3	8/6/2013	3 1/2 STD BLK A53 PIPE PE	.140	.450	.013	.013	.040	.010	.030	.010	.001	.010	.033	57368	34794	41
Run/Sample	6416/3	2/19/2013	3 1/2 STD BLK A53 PIPE PE	.120	.460	.012	.010	.030	.010	.050	.000	.000	.006	.040	55340	35816	45

COMMENTS

This is to certify that the product described herein was manufactured or supplied by the Wheatland Tube Division, USA and sampled, tested and/or inspected in accordance with the latest revision, at the time of manufacture, of the specification listed above and fulfills the requirements in such respects. All the required mechanical, physical, hydrostatic, non-destructive, flattening, and bend tests have been successfully completed. The products described above meet one of the following specifications: Continuous Butt Weld Steel Pipe meeting the requirements of ASTM A53 2012 /ASME SA53 2001 Type F, Grade A. Steel Coupling Stock meeting the requirements of ASTM A865. Electric Resistance Welded Steel Pipe meeting the requirements of ASTM A53 2012/ASME SA53 2001, Type E, Grade B. Electric Resistance Welded Steel Pipe meeting the requirements of ASTM A135 2009, Type E, Grade A. Electric Resistance Welded Steel Pipe meeting the requirements of ASTM A795 2012, Type E, Grade A. Seamless Pipe meeting the requirements of ASTM A106 2011/ASME SA106 2011 Seamless Carbon Steel Pressure Pipe Grades B&C and is acceptable to NACE standard MR0103-2012 Edition and MR0175/ISO15156-2, 2009 Edition. API pipe meeting the requirements of ANSI/API Specification 5L 45th Edition or ANSI/API Specification 5CT 9th Edition.



Mill Test Certificate



APPENDIX
Industry Application
Requisition No. 5716872Y
ISO 9001

Contract No.: 1010013300

No.

Address: 8443 Tidmore Lane, Suite 200, San Diego, CA 92121

Article of Test: ERW BLACK STEEL PIPE

Customer: FERROSTAL INCORPORATED

Tel: (06663)3262579 3264579 Fax: (86)(663)3264023

JUSTFQ10.12

[illegible]

(2207.47)

70 2013231



Independence Tube

6226 W. 74th St
Chicago, IL 60638
708-496-0380
Fax: 708-563-1950

independencetube.com
itclube.com
Certificate Number: CHI 54150

Sold By:
INDEPENDENCE TUBE CORPORATION
6226 W. 74th St.
Chicago, IL 60638
Tel: 708-496-0380
Fax: 708-563-1950

Sold To:
218 - BROWN STRAUSS
ACCOUNTS PAYABLE - STEEL
2495 URAVAN STREET
AURORA, CO 80011

Purchase Order No: 91776
Sales Order No: CHI 222035 - 1
Bill of Lading No: CHI 129820 - 1
Invoice No:

Shipped: 7/12/2013
Invoiced:

Ship To:
1 - BROWN STRAUSS
2495 URAVAN ST
AURORA, CO 80011

CERTIFICATE of ANALYSIS and TESTS

Customer Part No:

ROUND A500 GRADE B(C)
5.563"OD (5"NPS) X SCH80 X 42'

Certificate No: CHI 54150

Test Date: 7/10/2013

Total Pieces	Total Weight
10	8,728

Heat Number: 130366

Bundle Tag	Yield, Tensile Strength, Elongation, Measurements
734332	YLD=68160/TEN=69592/ELG=24.76

Y/T Ratio	Pieces	Weight
0.9794	10	8,728

Heat Number
130366

*** Chemical Analysis ***

C=0.0500 Mn=1.0500 P=0.0130 S=0.0020 Si=0.0170 Al=0.0340 Cu=0.0490 Cr=0.0290 Mo=0.0050
V=0.0020 Ni=0.0180
Carbon Eq.=0.2367 Carbon Eq. = $C + (Mn/6) + ((Cr + Mo + V)/5) + ((Ni + Cu)/15)$

Certification:

I certify that the above results are a true and correct copy of records prepared and maintained by Independence Tube Corporation. Sworn this day, 7/10/2013

WE PROUDLY MANUFACTURE ALL OF OUR HSS IN THE USA.
INDEPENDENCE TUBE PRODUCT IS MANUFACTURED, TESTED,
AND INSPECTED IN ACCORDANCE WITH ASTM STANDARDS.

CURRENT STANDARDS:

.....A500/A500M-10a
.....A513-07
.....A252-98 (2002)
.....A847/A847M-11


M X T P

Jose Martinez, QMS Manager

Atlas Tube Canada ULC
200 Clark St
Harrow Ontario Canada
N0R 1G0
Tel 519-738-3541
Fax 519-738-3537



Ref B/L 80558269
Date 09 05 2013
Customer 763

MATERIAL TEST REPORT

Sold to

Brown Strauss Steel
Accounts Payable Steel
2495 Uravan Street
AURORA CO 80011 3539
USA

Shipped to

Brown Strauss UP (RAIL)
Track #730 Zone 15
ROYDALE CO 80011
USA

Material 3 500x216x42 0 0(19x1) D

Material No R035002164200 D

Made in USA
Melted in USA

Sales order 840000

Purchase Order 92858 AUG13 PLYM

Heat No	C	Mn	P	S	Si	Al	Cu	Co	Mo	Ni	Cr	V	Ti	B	N
V51075	0.170	0.780	0.015	0.009	0.008	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Bundle No	PCs	Yield	Tensile	Eln 2in	Certification					CE 0.30					
M300708925	19	062030 Psi	074976 Psi	31.4 %	ASTM A500 10A GRADE B&C										

Material Note
Sales Or Note

Material 4 500x237x42 0 0(10x1)

Material No R04500237

Made in Canada
Melted in USA

Sales order 840304

Purchase Order 92857 AUG13

Heat No	C	Mn	P	S	Si	Al	Cu	Co	Mo	Ni	Cr	V	Ti	B	N
2880	0.210	0.800	0.013	0.009	0.011	0.053	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Bundle No	PCs	Yield	Tensile	Eln 2in	Certification					CE 0.36					
M101272865	10	065320 Psi	077080 Psi	33.3 %	ASTM A500 10A GRADE B&C										

Material Note
Sales Or Note

Material 4 500x237x42 0 0(10x1)

Material No R04500237

Made in Canada
Melted in USA

Sales order 840304

Purchase Order 92857 AUG13

Heat No	C	Mn	P	S	Si	Al	Cu	Co	Mo	Ni	Cr	V	Ti	B	N
L62880	0.210	0.800	0.013	0.009	0.011	0.053	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Bundle No	PCs	Yield	Tensile	Eln 2in	Certification					CE 0.35					
M101272866	10	065320 Psi	077080 Psi	33.3 %	ASTM A500 10A GRADE B&C										

Material Note
Sales Or Note

Mark Allen

Authorized by Quality Assurance
The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements



D1.1 method



TEST CERTIFICATE ACC TO DIN 50049 310/EN 10204 3.1					Form No. Q-B-011/R-01				
P.O. No. 009969-A Customer Item Cat & Desc. : (01 160165) Seamless Steel Pipe - A/SA 106, A/SA 153, A/SA 153B, A/SA 153C, A/SA 153D, A/SA 153E, A/SA 153F, A/SA 153G, A/SA 153H, A/SA 153I, A/SA 153J, A/SA 153K, A/SA 153L, A/SA 153M, A/SA 153N, A/SA 153O, A/SA 153P, A/SA 153Q, A/SA 153R, A/SA 153S, A/SA 153T, A/SA 153U, A/SA 153V, A/SA 153W, A/SA 153X, A/SA 153Y, A/SA 153Z, A/SA 153AA, A/SA 153AB, A/SA 153AC, A/SA 153AD, A/SA 153AE, A/SA 153AF, A/SA 153AG, A/SA 153AH, A/SA 153AI, A/SA 153AJ, A/SA 153AK, A/SA 153AL, A/SA 153AM, A/SA 153AN, A/SA 153AO, A/SA 153AP, A/SA 153AQ, A/SA 153AR, A/SA 153AS, A/SA 153AT, A/SA 153AU, A/SA 153AV, A/SA 153AW, A/SA 153AX, A/SA 153AY, A/SA 153AZ, A/SA 153BAA, A/SA 153BAB, A/SA 153BAC, A/SA 153BAD, A/SA 153BAE, A/SA 153BAF, A/SA 153BAG, A/SA 153BAH, A/SA 153BAI, A/SA 153BAJ, A/SA 153BAK, A/SA 153BAL, A/SA 153BAM, A/SA 153BAN, A/SA 153BAO, A/SA 153BAP, A/SA 153BAQ, A/SA 153BAR, A/SA 153BAS, A/SA 153BAT, A/SA 153BAU, A/SA 153BAV, A/SA 153BAW, A/SA 153BAX, A/SA 153BAZ, A/SA 153BBAA, A/SA 153BBAB, A/SA 153BBAC, A/SA 153BBAD, A/SA 153BBAE, A/SA 153BBAF, A/SA 153BBAG, A/SA 153BBAH, A/SA 153BBAI, A/SA 153BBAJ, A/SA 153BBAK, A/SA 153BBAL, A/SA 153BBAM, A/SA 153BBAN, A/SA 153BBAO, A/SA 153BBAP, A/SA 153BBAQ, A/SA 153BBAR, A/SA 153BBAS, A/SA 153BBAT, A/SA 153BBAU, A/SA 153BBAV, A/SA 153BBAW, A/SA 153BBAX, A/SA 153BBAY, A/SA 153BBAZ, A/SA 153BBBAA, A/SA 153BBBAB, A/SA 153BBBAC, A/SA 153BBBAD, A/SA 153BBBAE, A/SA 153BBBAF, A/SA 153BBBAG, A/SA 153BBBAH, A/SA 153BBBAI, A/SA 153BBBAJ, A/SA 153BBBAK, A/SA 153BBBAL, A/SA 153BBBAM, A/SA 153BBBAN, A/SA 153BBBAO, A/SA 153BBBAP, A/SA 153BBBAQ, A/SA 153BBBAR, A/SA 153BBBAS, A/SA 153BBBAT, A/SA 153BBBAU, A/SA 153BBBAV, A/SA 153BBBAW, A/SA 153BBBAX, A/SA 153BBBAY, A/SA 153BBBAZ, A/SA 153BBBBAA, A/SA 153BBBBAB, A/SA 153BBBBAC, A/SA 153BBBBAD, A/SA 153BBBBAE, A/SA 153BBBBAF, A/SA 153BBBBAG, A/SA 153BBBBAH, A/SA 153BBBBAI, A/SA 153BBBBAJ, A/SA 153BBBBAK, A/SA 153BBBBAL, A/SA 153BBBBAM, A/SA 153BBBBAN, A/SA 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153BBBBBBAU, A/SA 153BBBBBBAV, A/SA 153BBBBBBAW, A/SA 153BBBBBBAX, A/SA 153BBBBBBAY, A/SA 153BBBBBBAZ, A/SA 153BBBBBBBAA, A/SA 153BBBBBBBAB, A/SA 153BBBBBBBAC, A/SA 153BBBBBBBAD, A/SA 153BBBBBBBAE, A/SA 153BBBBBBBAF, A/SA 153BBBBBBBAG, A/SA 153BBBBBBBAH, A/SA 153BBBBBBBAI, A/SA 153BBBBBBBAJ, A/SA 153BBBBBBBAK, A/SA 153BBBBBBBAL, A/SA 153BBBBBBBAM, A/SA 153BBBBBBBAN, A/SA 153BBBBBBBAO, A/SA 153BBBBBBBAP, A/SA 153BBBBBBBAQ, A/SA 153BBBBBBBAR, A/SA 153BBBBBBBAS, A/SA 153BBBBBBBAT, A/SA 153BBBBBBBAU, A/SA 153BBBBBBBAV, A/SA 153BBBBBBBAW, A/SA 153BBBBBBBAX, A/SA 153BBBBBBBAY, A/SA 153BBBBBBBAZ, A/SA 153BBBBBBBBAA, A/SA 153BBBBBBBBAB, A/SA 153BBBBBBBBAC, A/SA 153BBBBBBBBAD, A/SA 153BBBBBBBBAE, A/SA 153BBBBBBBBAF, A/SA 153BBBBBBBBAG, A/SA 153BBBBBBBBAH, A/SA 153BBBBBBBBAI, A/SA 153BBBBBBBBAJ, A/SA 153BBBBBBBBAK, A/SA 153BBBBBBBBAL, A/SA 153BBBBBBBBAM, A/SA 153BBBBBBBBAN, A/SA 153BBBBBBBBAO, A/SA 153BBBBBBBBAP, A/SA 153BBBBBBBBAQ, A/SA 153BBBBBBBBAR, A/SA 153BBBBBBBBAS, A/SA 153BBBBBBBBAT, A/SA 153BBBBBBBBAU, A/SA 153BBBBBBBBAV, A/SA 153BBBBBBBBAW, A/SA 153BBBBBBBBAX, A/SA 153BBBBBBBBAY, A/SA 153BBBBBBBBAZ, A/SA 153BBBBBBBBBAA, A/SA 153BBBBBBBBBAB, A/SA 153BBBBBBBBBAC, A/SA 153BBBBBBBBBAD, A/SA 153BBBBBBBBBAE, A/SA 153BBBBBBBBBAF, A/SA 153BBBBBBBBBAG, A/SA 153BBBBBBBBBAH, A/SA 153BBBBBBBBBAI, A/SA 153BBBBBBBBBAJ, A/SA 153BBBBBBBBBAK, A/SA 153BBBBBBBBBAL, A/SA 153BBBBBBBBBAM, A/SA 153BBBBBBBBBAN, A/SA 153BBBBBBBBBAO, A/SA 153BBBBBBBBBAP, A/SA 153BBBBBBBBBAQ, A/SA 153BBBBBBBBBAR, A/SA 153BBBBBBBBBAS, A/SA 153BBBBBBBBBAT, A/SA 153BBBBBBBBBAU, A/SA 153BBBBBBBBBAV, A/SA 153BBBBBBBBBAW, A/SA 153BBBBBBBBBAX, A/SA 153BBBBBBBBBAY, A/SA 153BBBBBBBBBAZ, A/SA 153BBBBBBBBBBAA, A/SA 153BBBBBBBBBBAB, A/SA 153BBBBBBBBBBAC, A/SA 153BBBBBBBBBBAD, A/SA 153BBBBBBBBBBAE, A/SA 153BBBBBBBBBBAF, A/SA 153BBBBBBBBBBAG, A/SA 153BBBBBBBBBBAH, A/SA 153BBBBBBBBBBAI, A/SA 153BBBBBBBBBBAJ, A/SA 153BBBBBBBBBBAK, A/SA 153BBBBBBBBBBAL, A/SA 153BBBBBBBBBBAM, A/SA 153BBBBBBBBBBAN, A/SA 153BBBBBBBBBBAO, A/SA 153BBBBBBBBBBAP, A/SA 153BBBBBBBBBBAQ, A/SA 153BBBBBBBBBBAR, A/SA 153BBBBBBBBBBAS, A/SA 153BBBBBBBBBBAT, A/SA 153BBBBBBBBBBAU, A/SA 153BBBBBBBBBBAV, A/SA 153BBBBBBBBBBAW, A/SA 153BBBBBBBBBBAX, A/SA 153BBBBBBBBBBAY, A/SA 153BBBBBBBBBBAZ, A/SA 153BBBBBBBBBBBAA, A/SA 153BBBBBBBBBBBAB, A/SA 153BBBBBBBBBBBAC, A/SA 153BBBBBBBBBBBAD, A/SA 153BBBBBBBBBBBAE, A/SA 153BBBBBBBBBBBAF, A/SA 153BBBBBBBBBBBAG, A/SA 153BBBBBBBBBBBAH, A/SA 153BBBBBBBBBBBAI, A/SA 153BBBBBBBBBBBAJ, A/SA 153BBBBBBBBBBBAK, A/SA 153BBBBBBBBBBBAL, A/SA 153BBBBBBBBBBBAM, A/SA 153BBBBBBBBBBBAN, A/SA 153BBBBBBBBBBBAO, A/SA 153BBBBBBBBBBBAP, A/SA 153BBBBBBBBBBBAQ, A/SA 153BBBBBBBBBBBAR, A/SA 153BBBBBBBBBBBAS, A/SA 153BBBBBBBBBBBAT, A/SA 153BBBBBBBBBBBAU, A/SA 153BBBBBBBBBBBAV, A/SA 153BBBBBBBBBBBAW, A/SA 153BBBBBBBBBBBAX, A/SA 153BBBBBBBBBBBAY, A/SA 153BBBBBBBBBBBA									