



EMPIRE TUBULARS, INC.

1101 Chambliss
Memphis, TN 38116
901-396-8003

INVOICE
No 10810

S T. Bob Anthor Co
O R.R.4, 3200 Rankin Hwy
L
D Midland, TX 79701

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O Attn: Larry

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P.O. #	REL #	SHIP VIA	TERMS	DUE DATE	FOB.	INVOICE DATE
veroal		CPU	Net Cash		Trk-Clark	5-18-90

PROD #	QTY	SIZE & DESCRIPTION	PCS	FEET	LBS	TONS	PRICE	UNIT	TOTAL
		ELECTRIC WELD CASING 8-5/8" OD 24# STC J-55, R3, USX Plastic Pin End Protectors MTR's Attached Final Tally to Govern	46	2000					



METALLURGICAL TEST REPORT

[illegible]

ADDITIONAL INFORMATION:



USS
A Division of USX Corporation

TUBULAR PRODUCTS



METALLURGICAL TEST REPORT

JOB, CONTRACT NO.	P.O. DATE	PURCHASE ORDER NO.	THIS IS TO CERTIFY THAT THE PRODUCT DESCRIBED HEREIN WAS PROD., SAMPLED, TESTED AND/OR INSPE. IN ACCORDANCE WITH THE SPECIFICATIONS AND FULFILLS REQUIREMENTS IN SUCH RESPECTS.	
FAIRFIELD WORKS	1099 10/10/89	1099 10/10/89	APPROVED BY THE OFFICE OF F.W. MOORE, MGR. G.A.	
SHIPPER NO.	MILL ORDER NO.	INVOICE NO.	DATE 01/15/90	
VERICLE IDENTITY	DMD2595			
EMPIRE TUBULARS 1101 CHAMBLISS MEMPHIS, TN 38116			M A I L T O	

PIPE CARBON EW CASING API 5CT GRADE J-55 UP EXCEPT END FINISH PE
REV 65 DEG SPEC REV NAME 1ST EDITION DTD 3/19/88 SPEC DATE MAR 88

ITEM NO.	MATERIAL DESCRIPTION		WALL	SIZE	TYPE	C	MN	P	S	SI	CU	NI	CR	MO	AL	N	V	YIELD STR. PSI	TENSILE STR. FST	ELONG. % IN 2"	GAGE WIDTH IN.	FLAT	RAU BEND
	HEAT NO.	SPECIFICATION & GRADE																					
1	01120	API 5CT GRADE J-55	0.264	5/8	PROD	34	122	019	010	016	01	01	02	005	032	01	2700	64890	84260	32.50	1 1/2	OK	0.7
1	01120	API 5CT GRADE J-55	0.264	5/8	PROD	34	127	022	009	015	04	02	04	005	037	01	2700	65630	89260	30.00	1 1/2	OK	0.7
1	01121	API 5CT GRADE J-55	0.264	5/8	PROD	32	117	015	009	015	01	01	03	005	031	01	2700	65250	83930	30.00	1 1/2	OK	0.7
1	01121	API 5CT GRADE J-55	0.264	5/8	PROD	32	115	018	010	012	01	01	02	005	030	01	2700	61330	80770	35.00	1 1/2	OK	0.7
1	01122	API 5CT GRADE J-55	0.264	5/8	PROD	31	121	020	009	013	03	02	04	005	036	01	2700	62830	83100	35.00	1 1/2	OK	0.7
1	01122	API 5CT GRADE J-55	0.264	5/8	PROD	28	121	017	008	017	01	01	03	005	037	01	2700	60300	77780	35.00	1 1/2	OK	0.7



A division of USX Corporation

TUBULAR PRODUCTS



METALLURGICAL TEST REPORT

58. CONTRACT NO.	P.O. DATE	PURCHASE ORDER NO.	THIS IS TO CERTIFY THAT THE PRODUCT DESCRIBED HEREIN WAS MFGD., SAMPLED, TESTED AND/OR INSPD. IN ACCORDANCE WITH THE SPECIFICATIONS AND FULFILLS REQUIREMENTS IN SUCH RESPECTS.	
FAIRFIELD WORKS	SHIPPERS NO.	1099 10/10/89	INVOICE NO.	APPROVED BY THE OFFICE OF F.W. MOORE, MGR. Q.A.
EMPIRE TUBULARS 1101 CHAMELISS MEMPHIS, TN 38116	VEHICLE IDENTITY	MILL ORDER NO. DMO2595		FAIRFIELD WORKS
				DATE 01/15/90

PIPE CARBON EW CASING API 5CT GRADE J-55 UP EXCEPT END FINISH PE
REV 65 DEG SPEC REV NAME 1ST EDITION DTD 3/15/88 SPEC DATE MAR 88

I N O.	MATERIAL DESCRIPTION				M A T L.	H E A T / L O T N O.	M I N . H Y D R O P S I	Y I E L D S T R . P S I	T E N S I L E S T R . P S I	E L O N G . % I N 2 "	G A G E W I D T H I N .	F L A T	R A T I O B E N D
	W A L L	S P E C I F I C A T I O N & G R A D E		S I Z E									
B	5/8	0.264	A P I 5 C T G R A D E J - 5 5		ERW	01117	2700	59780	79040 XXXXXX	34.50	1 1/2	OK	0.76
	5/8	0.264	A P I 5 C T G R A D E J - 5 5		ERW	01118	2700	64240	83350 XXXXXX	35.00	1 1/2	OK	0.77
	5/8	0.264	A P I 5 C T G R A D E J - 5 5		ERW	01119	2700	64180	82810 XXXXXX	35.00	1 1/2	OK	0.78
B	5/8	0.264	A P I 5 C T G R A D E J - 5 5		ERW	01119	2700	64870	84150 XXXXXX	32.50	1 1/2	OK	0.77
	5/8	0.264	A P I 5 C T G R A D E J - 5 5		ERW	01119	2700	71660	85540 XXXXXX	34.00	1 1/2	OK	0.84
	5/8	0.264	A P I 5 C T G R A D E J - 5 5		ERW	01119	2700	71660	85540 XXXXXX	34.00	1 1/2	OK	0.84

HEAT NO.	TYPE	C	MN	P	S	SI	CU	NI	CR	MO	AL	N	V	TI	CB	CD
01117	PROD	31	126	015	008	017	01	01	03	005	038	01	01			
01117	PROD	31	146	018	006	016	01	01	03	005	030	01	01			
01118	PROD	32	142	020	009	010	01	01	03	005	013	01	01			
01118	PROD	31	145	017	010	013	01	01	02	005	028	01	01			
01119	PROD	33	144	020	008	012	01	01	03	005	027	01	01			
01119	PROD	31	143	015	008	013	01	01	02	005	032	01	01			
	*	*	*	*	N	D	F	D	A	T	H	S	M	E	*	*



METALLURGICAL TEST REPORT

CONTRACT NO.	P.O. DATE	PURCHASE ORDER NO.	THIS IS TO CERTIFY THAT THE PRODUCT DESCRIBED HEREIN WAS MANUFACTURED, SUPPLIED, TESTED AND/OR INSPECTED IN ACCORDANCE WITH THE SPECIFICATIONS AND TOLERANCE REQUIREMENTS IN SUCH RESPECTS.	
FAIRFIELD WORKS	SHIPPERS NO.	MILL ORDER NO.	INVOICE NO.	APPROVED BY THE OFFICE OF F.M. MOORE, MGR., O.A., FAIRFIELD WORKS
EMPIRE TUBULARS 1101 CHAMBLISS MEMPHIS, TN 38116	VEHICLE IDENTITY	DATE 01/15/90		

PIPE CARBON EW CASING API 5CT GRADE J-55 UP EXCEPT END FINISH PE
REV 65 DEG SPEC REV NAME 1ST EDITION DTD 5/15/88 SPEC DATE MAR 88

NO.	MATERIAL DESCRIPTION														YIELD STR PSI	TENSILE STR PSI	ELONG. % IN 2"	GAGE WIDTH IN.	FLAT	WALL BEND
	SIZE		WALL	SPECIFICATION & GRADE																
	8	5/8	0.264	API 5CT GRADE J-55	ERM	01111	2700	67940	88040	33.50	1 1/2	OK	0.77							
	8	5/8	0.264	API 5CT GRADE J-55	ERM	01115	2700	68160	88030	31.50	1 1/2	OK	0.77							
	8	5/8	0.264	API 5CT GRADE J-55	ERM	01116	2700	64550	80810	30.50	1 1/2	OK	0.77							
	8	5/8	0.264	API 5CT GRADE J-55	ERM	01117	2700	64550	80810	31.50	1 1/2	OK	0.77							
	8	5/8	0.264	API 5CT GRADE J-55	ERM	01118	2700	64550	80810	35.50	1 1/2	OK	0.80							

HEAT NO.	TYPE	C	MN	P	S	SI	CU	NI	CR	MO	SN	AL	N	V	TI	CB	CO
01111	PROD	30	116	020	011	010	01	01	03	005		028	01	01			
01111	PROD	30	116	014	009	011	01	01	03	005		037	01	01			
01115	PROD	32	121	014	009	009	01	01	02	005		022	01	01			
01115	PROD	34	119	020	010	007	03	02	04	005		030	01	01			
01116	PROD	29	117	017	009	015	01	01	03	005		013	01	01			
01116	PROD	29	123	019	010	016	01	01	03	005		034	01	01			
01116	PROD	29	123	019	010	016	01	01	03	005		034	01	01			