S/C NO.: KT04-009

Customer: DALLAS TRADING DIVISION COMMERCIAL METALS COMPANY

Commodity: PRIME NEWLY PRODUCED SEAMLESS STEEL PIPES

LETTER OF CREDIT NUMBER 6469112

MILL TEST CERTIFICATES

EN 10204/3.1.B.

Pangang Group Chengdu Iron & Steel Co. Ltd.,

Certificate No.: 2004131001

Specification: ASTM SA53B / A106B / ASME / API5LB / X42 / PSL-1.

Date: June 28, 2004

Total: 1862 Pcs., 74480 FT, 1332.049 MT

LOT 2 PO 57458

Heat No.	Size	Quantity			Test Piece No.	Mechanical Properties			Workmanship Test					Chemical Analysis (%)									
		Pcs.	Length (FT)	Weight (MT)		Y.S.(Mpa)	T.S.(Mpa)	EL.(%)	1	2	3	4	5	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	V
43-00567	6"*SCH40*40'	175	7000	60.300	144050076 A	345	485	34.0	G			G		0.17	0.25	0.50	0.008	0.013	0.03	0.02	0.01	0.04	0.01
					144050076 B	340	485	33.0															
43-01995	6"*SCH40*40'	112	4480	38.592	114050085 A	345	480	34.0	G			G		0.19	0.21	0.46	0.005	0.013	0.02	0.02	0.01	0.06	0.01
					114050085 B	340	480	33.0															
43-01998	6"*SCH40*40'	28	1120	9.648	114050084 A	335	475	35.0	G			G		0.19	0.27	0.48	0.006	0.016	0.02	0.02	0.01	0.06	0.01
					114050084 B	330	475	35.5															
0481340	8"*SCH40*40'	140	5600	72.632	144040410 A	390	530	30.5	G			G		0.20	0.24	0.59	0.014	0.010	0.03	0.04	0.01	0.10	0.01
					144040410 B	360	510	31.5															
0481364	8"*SCH40*40'	95	3800	49.286	114040495 A	400	515	35.0	G			G		0.21	0.22	0.58	0.021	0.013	0.03	0.04	0.01	0.11	0.01
					114040495 B	400	515	35.5															
43-01762	8"*SCH40*40'	55	2200	28.534	144040411 A	380	515	30.5	G			G		0.18	0.24	0.48	0.010	0.015	0.03	0.02	0.01	0.06	0.00
					144040411 B	365	510	35.0															
43-01775	8"*SCH40*40'	85	3400	44.098	144040412 A	370	490	36.5	G			G		0.18	0.23	0.51	0.010	0.016	0.03	0.02	0.01	0.05	0.01
					144040412 B	340	485	39.0															
43-01755	8"*SCH40*40'	35	1400	18.158	134040408 A	400	520	32.0	G			G		0.18	0.24	0.46	0.012	0.013	0.03	0.02	0.01	0.06	0.01
					134040408 B	395	515	33.0															
0381380	8"*SCH80*40'	12	480	9.456	134050302 A	340	525	38.5	G			G		0.16	0.42	1.07	0.012	0.018	0.02	0.04	0.01	0.10	0.01
					134050302 B	390	525	39.0															
0481656	8"*SCH80*40'	54	2160	42.552	134050332 A	360	525	38.0	G			G		0.16	0.44	1.09	0.013	0.021	0.03	0.04	0.02	0.12	0.01
					134050332 B	345	520	38.0															
0481058	10"*.365*40'	85	3400	62.475	134050485 A	375	520	34.5	G			G		0.20	0.26	0.52	0.015	0.012	0.03	0.04	0.01	0.12	0.01
					134050485 B	380	525	34.5															
0481059	10"*.365*40'	55	2200	40.425	134050486 A	380	515	33.0	G			G		0.20	0.21	0.51	0.017	0.011	0.03	0.04	0.01	0.11	0.01
					134050486 B	375	500	33.0															
43-00726	10"*.365*40'	8	320	5.880	134050442 A	365	530	37.0	G			G		0.18	0.20	0.51	0.015	0.023	0.04	0.02	0.01	0.05	0.01
					134050442 B	375	530	33.0															
43-02274	10"*.365*40'	53	2120	38.955	134050487 A	400	545	34.0	G			G		0.21	0.20	0.51	0.007	0.012	0.02	0.02	0.01	0.06	0.01
					134050487 B	380	515	32.0															
43-02275	10"*.365*40'	82	3280	60.270	124050483 A	360	500	36.0	G			G		0.20	0.24	0.55	0.018	0.018	0.04	0.02	0.01	0.06	0.01
					124050483 B	390	535	36.5															

43-02277	10"*.365*40'	12	480	8.820	134050484 A	365	515	35.0	G			G		0.22	0.25	0.55	0.006	0.025	0.04	0.02	0.01	0.06	0.01
					134050484 B	375	540	35.0															
43-02278	10"*.365*40'	55	2200	40.425	124050481 A	350	510	34.0	G			G		0.22	0.20	0.57	0.013	0.020	0.03	0.02	0.01	0.06	0.01
					124050481 B	335	475	36.0															
43-02285	10"*.365*40'	39	1560	28.665	124050482 A	380	525	35.0	G			G		0.20	0.24	0.55	0.008	0.014	0.02	0.01	0.01	0.06	0.01
					124050482 B	380	515	35.0															
43-02320	10"*.365*40'	46	1840	33.810	134050488 A	380	515	35.0	G			G		0.22	0.25	0.44	0.011	0.012	0.02	0.02	0.01	0.06	0.01
					134050488 B	365	490	35.0															
43-02384	10"*.594*40'	47	1880	54.990	124060325 A	410	515	42.0	G			G		0.16	0.25	1.12	0.007	0.013	0.02	0.02	0.01	0.06	0.01
					124060325 B	395	510	36.5															
43-01822	12"*.375*40'	9	360	8.100	124040602 A	405	535	31.5	G			G		0.17	0.23	0.49	0.006	0.014	0.03	0.02	0.01	0.06	0.01
					124040602 B	370	525	33.0															
43-01823	12"*.375*40'	30	1200	27.000	124040603 A	365	530	31.0	G			G		0.18	0.24	0.51	0.008	0.015	0.02	0.02	0.01	0.06	0.01
					124040603 B	380	520	32.0															
43-01824	12"*.375*40'	3	120	2.700	124040609 A	340	480	37.5	G			G		0.19	0.26	0.52	0.010	0.015	0.03	0.02	0.01	0.05	0.01
					124040609 B	360	495	38.0															
43-01828	12"*.375*40'	64	2560	57.600	124040598 A	390	525	27.5	G			G		0.18	0.23	0.46	0.013	0.010	0.03	0.02	0.01	0.05	0.01
					124040598 B	400	525	33.5															
43-01232	12"*.375*40'	51	2040	45.900	114040597 A	385	525	30.5	G			G		0.20	0.23	0.50	0.003	0.018	0.02	0.02	0.01	0.06	0.01
					114040597 B	355	510	33.5															
43-01422	12"*.375*40'	48	1920	43.200	124040600 A	385	520	33.5	G			G		0.19	0.22	0.49	0.008	0.016	0.02	0.02	0.01	0.05	0.01
					124040600 B	370	520	33.5															
43-01423	12"*.375*40'	48	1920	43.200	124040601 A	365	525	34.0	G			G		0.19	0.23	0.45	0.007	0.014	0.03	0.02	0.01	0.05	0.01
					124040601 B	350	515	33.0															
0481448	12"*.375*40'	69	2760	62.100	114040595 A	360	500	32.5	G			G		0.20	0.23	0.53	0.012	0.013	0.02	0.05	0.01	0.08	0.01
					114040595 B	335	475	38.0															
43-01831	12"*.375*40'	14	560	12.600	144040589 A	365	480	35.5	G			G		0.20	0.22	0.50	0.020	0.018	0.03	0.02	0.01	0.05	0.01
					144040589 B	355	480	35.0															
0481432	12"*.688*40'	31	1240	49.910	134040655 A	335	530	31.0	G			G		0.14	0.47	1.09	0.006	0.011	0.02	0.05	0.01	0.09	0.01
					134040655 B	335	525	31.5															
0481653	14"*.375*40'	98	3920	97.118	224050306 A	345	495	36.5	G			G		0.20	0.22	0.56	0.016	0.012	0.02	0.04	0.01	0.12	0.01
					224050306 B	335	490	39.5															
0481618	14"*.375*40'	87	3480	86.217	224050305 A	330	510	39.5	G			G		0.21	0.26	0.56	0.009	0.013	0.02	0.04	0.01	0.10	0.01
					224050305 B	340	505	37.5															
** 0481459	14"*.500*40'	37	1480	48.433	234050002 A	345	480	40.0						0.16	0.46	1.08	0.012	0.012	0.04	0.05	0.03	0.11	0.01
					234050002 B	350	505	43.5															

Notes:

1. Flattening test
2. Bending test
3. Pipe flaring test
4. Hydrostatic test

Non-destructive test

Remarks:

1. Good in first supply; Hot rolled
2. Tubes delivered in theoretical weight
3. G----------Good

攀钢集团成都钢铁有限责任公司
PANGANG GROUP CHENGDU IRON & STEEL CO., LTD.

Inspector: Cheng Yu