



01/03/2010

Quality Documentation Package

Customer: Command Energy Services Ltd.

Purchase Order Number: 00005622

4 1/2" Heavy Weight Drill Pipe with NC46 Connections, Range 3 New
Other, 6 3/8" OD x 2 13/16" ID, 24" Tool Joints, 26" Center Wear Pad,
Thread Protectors Installed, 43.0' +/- 6" OAL.

Jiangsu Shuguang Huayang Drilling Tool Co., Ltd.
(Shuguang Group)

[Http://www.shuguang.com](http://www.shuguang.com)

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**Item
Number**

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1	✓	Certificate of Conformance
2	✓	Certificate of UT/MPT
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5	✓	Steel Mill Certs



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Description:

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Other, 6 3/8" OD x 2 13/16" ID, 24" Tool Joints, 26" Center Wear Pad, Thread
Protectors Installed, 43.0' +/- 6" OAL.

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7-1-0585 Certificate of Conformance

ANSI/API SPEC 7-1 Specification for Rotary Drill Stem Elements
JSH Project Specification
JSH Purchase Specification For Grade 4145H

Purchase Order Number: 00005622

This hereby certifies that JSH has met or exceeded the manufacturing and quality requirements of the above referenced specification(s) in Manufacturing the following below described material for:

Command Energy Services Ltd.

40 **Joints** 4 1/2" Heavy Weight Drill Pipe with NC46 Connections, Range 3 New Other, 6 3/8" OD x 2 13/16" ID, 24" Tool Joints, 26" Center Wear Pad, Thread Protectors Installed, 43.0' +/- 6" OAL.

Chen Zilong

JSH Representative

01/03/2010

Date



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UT/MPI INSPECTION REPORT

Customer:	Command Energy Services Ltd.		PO. No.:	00005622
PRODUCTION INSPECTED	# OF PIECES:	26	SIZE:	4 1/2"HWDP
	RANGE:	100%	WEIGHT:	20186.8kg
Type Inspection	UT&MPI			

SUMMARY OF INSPECTION RESULTS

	Accepted Length	343383mm
	Reject / Par	0%
	Total Lengths Inspection	343383mm

Comments

Production No. Range		
0905487 0905488 0905489 0905490 0905491 0905492 0905493 0905494 0905495		
0905497 0905498 0905499 0905500 0905501 0905502 0905503 0905574 0905575		
0905577 0905578 0905579 0905581 0905582 0905583 0905584 0905587		

OPERATOR	Jiang Xiaoyin&You Qingzhi	SPEC(S) USED API SPEC7-1	
PROVE-UP INSPECTOR	Cao Ping		
SIGNED	Chen Zilong	REPORT DATE	01/03/2010

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UT/MPI INSPECTION REPORT

Customer:	Command Energy Services Ltd.		PO. No.:	00005622
PRODUCTION INSPECTED	# OF PIECES:	14	SIZE:	4 1/2"HWDP
	RANGE:	100%	WEIGHT:	10847.2kg
Type Inspection	UT&MPI			

SUMMARY OF INSPECTION RESULTS

	Accepted Length	184515mm
	Reject / Par	0%
	Total Lengths Inspection	184515mm

Comments

Production No. Range		
0905588 0905589 0905590 0905591 0905592 0905645 0905646 0905647 0905648		
0905649 0905650 0905651 0905652 0905653		

OPERATOR	Jiang Xiaoyin&You Qingzhi	SPEC(S) USED API SPEC7-1
PROVE-UP INSPECTOR	Cao Ping	
SIGNED	Chen Zilong	REPORT DATE 01/03/2010

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Certificate of Testing

Mill Chemistry

Mill	Grade	Heat No.	C	Mn	P	S	Si	Mo	Cr	Ni		
Xing Chen	AISI 4145H Mod.	E20904237AX	0.490	1.040	0.008	0.003	0.230	0.280	1.170	0.020		
0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		

Mechanical Test Data

Specimen	Test No.	Size	Heat No.	Tensile Mpa	Yield Mpa	Elong%	BHN
0905585	1	12.5*50	E20904237AX	1007	875	16	333
0	0	0.00	0	0	0	0	0
0	0	0.00	0	0	0	0	0
0	0	0.00	0	0	0	0	0
0	0	0.00	0	0	0	0	0
0	0	0.00	0	0	0	0	0
0	0	0.00	0	0	0	0	0
0	0	0.00	0	0	0	0	0
0	0	0.00	0	0	0	0	0

Longitudinal Charpy-V Notch Impact Data(Joules)

Size(mm)	Temp(°C)	Heat No.	Test No.	A	B	C	Avg
10*10*55	20	E20904237AX	3	69	80	86	78
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

All properties meet the requirements of ANSI/API SPEC 7-1, Specification for Rotary Drill Stem Elements, and JSH Purchase Specification for Grade 4145H, I certify that these tests were conducted in according with applicable specification and that the data contained herein is true and correct.

Chen Zilong

01/03/2010

JSH Representative

Date



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Serialization Log

Total Number of Joints: 26

Work Order ZH0910003

Total Length (mm): 343383

Total Weight (Kg): 20186.8

No.	P.No.	HT.No.	FDC L (mm)	FDC W (Kg)	BHN	Stand-Off-B	Stand-Off-P	OD/ID	UT/MPT	Final Ins.
1	0905487	E20904237AX	13258	779.4	336	✓	✓	✓	✓	✓
2	0905488	E20904237AX	13235	778.1	317	✓	✓	✓	✓	✓
3	0905489	E20904237AX	13170	774.2	336	✓	✓	✓	✓	✓
4	0905490	E20904237AX	13187	775.2	336	✓	✓	✓	✓	✓
5	0905491	E20904237AX	13190	775.4	334	✓	✓	✓	✓	✓
6	0905492	E20904237AX	13211	776.6	334	✓	✓	✓	✓	✓
7	0905493	E20904237AX	13181	774.9	322	✓	✓	✓	✓	✓
8	0905494	E20904237AX	13239	778.3	335	✓	✓	✓	✓	✓
9	0905495	E20904237AX	13148	772.9	322	✓	✓	✓	✓	✓
10	0905497	E20904237AX	13230	777.8	307	✓	✓	✓	✓	✓
11	0905498	E20904237AX	13232	777.9	310	✓	✓	✓	✓	✓
12	0905499	E20904237AX	13168	774.1	318	✓	✓	✓	✓	✓
13	0905500	E20904237AX	13192	775.5	323	✓	✓	✓	✓	✓
14	0905501	E20904237AX	13150	773.1	322	✓	✓	✓	✓	✓
15	0905502	E20904237AX	13228	777.6	290	✓	✓	✓	✓	✓
16	0905503	E20904237AX	13230	777.8	307	✓	✓	✓	✓	✓
17	0905574	E20904237AX	13234	778.0	318	✓	✓	✓	✓	✓
18	0905575	E20904237AX	13230	777.8	316	✓	✓	✓	✓	✓
19	0905577	E20904237AX	13200	776.0	309	✓	✓	✓	✓	✓
20	0905578	E20904237AX	13180	774.8	326	✓	✓	✓	✓	✓
21	0905579	E20904237AX	13240	778.4	316	✓	✓	✓	✓	✓
22	0905581	E20904237AX	13192	775.5	323	✓	✓	✓	✓	✓
23	0905582	E20904237AX	13192	775.5	309	✓	✓	✓	✓	✓
24	0905583	E20904237AX	13220	777.2	325	✓	✓	✓	✓	✓
25	0905584	E20904237AX	13238	778.2	313	✓	✓	✓	✓	✓
26	0905587	E20904237AX	13208	776.5	334	✓	✓	✓	✓	✓

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Serialization Log

Total Number of Joints: 14

Work Order ZH0910003

Total Length (mm): 184515

Total Weight (Kg): 10847.2

[illegible]

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4 1/2" Heavy Weight Drill Pipe with NC46 Connections, Range 3
New Other, 6 3/8" OD x 2 13/16" ID, 24" Tool Joints, 26" Center
Wear Pad, Thread Protectors Installed, 43.0' +/- 6" OAL.

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年明过咄版品丸

地址:中国江苏省江阴市滨江东路297号
ADD:NO.297 BINJIANG(E)ROAD,JIANGYIN JIANGSU,CHINA

JIANGYIN XINGCHENG SPECIAL STEEL CO.,LTD.

INSPECTION CERTIFICATE

TEL: (0510) 86193388 FAX: (0510) 86191400
R13-003/1-0

XINGCHENG STEEL

合同号: G09D375A02

产品名称: 合金结构钢轧制圆钢

Description of Goods

用途: 不表示

规格(长度): Φ173.00(13500)

Size(l)

钢号: AISI4145H

收貨單位：江蘇曙光元華陽鑽具有限公司

Sold To

质保书号: G090000055171

Sheet No.

执行标准: EIX045-2007-03

Specification

生产许可证:

Production Permit No.

[illegible][illegible]

签发日期: 2009111508

责任人: J. M. Fu

签发人: 丁

1. *Chlorophyll a* (Chl *a*)

质量部门盖章有效

of

Quality Assurance

复印件无效