Compagnie Tunisienne De Forage

19 RUE DE L'ARTISANAT CHARGUIA II – 2035 L'AEROPORT-ARIANA TUNISIA FAX N°(216-70) 836 568/837 041 PHONE N°(216-70) 837 322

FAX MESSAGE

FROM : C.T.F

FAX REF: ATT:

DATE: 09/06/2023 FAX N°: VIA MAIL
CONTACT NAME: Y/REF:
Page (01) of (13) including this page COPY:

SUBJECT: INVITATION TO BID N° PP 2023/350

SUPPLY OF 02 LOTS OF VARIOUS SPARE PARTS

Compagnie Tunisienne de Forage, (CTF) is now seeking competitive bids for the Supply of:

SUPPLY OF 02 LOTS OF VARIOUS SPARE PARTS

To this purpose you are hereby invited to submit your best prices and delivery in full compliance with the following terms and conditions.

Bidders can submit for one lot or more.

A - SCOPE OF WORK:

Spare parts must be in compliance with technical specifications as detailed in attachment A.

B – DELIVERY REQUIREMENT

The delivery of each lot as indicated in attachment C shall be considered as a technical criteria. In case of late delivery a delay penalty of 1‰ per day of the total amount of the purchase order to be applied provided that such penalties will not exceed 5% of the total purchase order.

C - ACKNOWLEDGEMENT:

You are kindly requested to acknowledge receipt of this inquiry by return fax or email.

D - BID CLOSING DATE:

Bids must be sent to CTF head office as soon as possible but no later than 14 June 2023 as per bid submission instructions hereinafter.

E- FORM OF BIDS:

Bids shall be in the form of pro forma invoices as per the formats shown under attachments B and C and shall include all requested details.

F - VALIDITY:

Bids shall be valid for a period of at least 90 days from bid closing date.

G/BID SUBMISSION PROCEDURE:

Bids shall be submitted by one of the ways listed under articles G1 and G2: The bidder is free to choose the appropriate way:

G-1- IN A SEALED OPAQUE ENVELOPE AS FOLLOWS:

Within this sealed opaque envelope bidder shall include the following two (02) separate internal sealed envelopes:

- The first internal sealed envelope shall:
- * Indicate:
- "envelope N°1 "UNPRICED Technical offer"
- Tenderer's name and address
- * Contain:
- The **Unpriced Technical offer** (in the format shown in **Attachment B**) duly signed dated and stamped.
- Any technical information related to the proposed Spare Parts.
- The <u>Second internal sealed envelope shall:</u>
- * Indicate:
- "envelope N°2 "PRICED" Financial offer"
- Tenderer's name and address
- * Contain:
- The **Priced Financial offer** (as per the format provided under **attachment** C) duly signed dated and stamped.
- <u>The outer sealed envelope containing the 2 internal sealed envelopes shall</u> be sent by registered mail or by courier to the following address so as to arrive as soon as possible but no later than, 14 June 2023.

COMPAGNIE TUNISIENNE DE FORAGE
19 RUE DE L'ARTISANAT CHARGUIA II
2035 ARIANA - TUNISIA
ATT : PRESIDENT OF THE TENDER BOARD
"DO NOT OPEN"
INQUIRY N° PP/2023/350
SUPPLY OF 02 LOTS OF VARIOUS SPARE PARTS

G-2- BY E-MAIL TO: closed.bids@ctf.com.tn as per the pro forma provided under attachment B and C

H - CONTACTS:

Any further information or clarification required during the bidding period to aid bidder in the preparation of his bid shall be requested in writing by fax addressed to:

COMPAGNIE TUNISIENNE DE FORAGE FAX N° (216-70) 837 041 – 836 568 ATT: TENDER BOARD

I - SPECIAL NOTES:

- I.1- By written notice, CTF may modify the inquiry terms and conditions in any aspect by way of clarification, addition, deletion or otherwise, prior to bid closing date.
- I.2- CTF shall be under no obligation to accept the lowest or any bid submitted hereunder and CTF shall not be held liable for any expenses incurred in the preparation or submittal of bids or any subsequent discussion and/or negotiation.
- I.3—The financial offers and after the correction of possible errors of calculation, will be classed from the lowest bidder to the highest bidder and CTF will select the best offer which meets CTF technical.
- I.4-Bidders are requested to quote for only FCA
- I.5-Certificate of conformance to be supplied in case P.O is placed.

BEST REGARDS,

C.T.F.

PROCUREMENT & MARKETING MANAGER

ATTACHMENT A

TECHNICAL SPECIFICATIONS OF THE REQUESTED PARTS

Item	Description	Reference	QTY
1	ORING	38.5X3.55	2
2	RETAINER RING 140	GB/T893.1	4
3	BACK UP RING	2C09.07	4
4	SEAL FOR PISTON ROD	2C09.08	4
5	SUPPORTING GLAND COVER	2C09.18	4
6	ORING	87.5X3.55	8
7	ORING	97.5X3.55	8
8	U SEAL	H513	4
9	SECONDARY PACKING	EM09-1	2
<i>10</i>	U SEAL	Ø76.1X92.08X14.27/15.72	4
11	ORING	77.5X5.3	4
12	FLOATING SEAL SKELETON	2C09.06.00	6
13	BACK UP RING (RAM /BONNET)	C663-22 (Ø80X88.6X1.7)	8
14	ORING	GB3452.1 (112X7)	4
15	ORING	GB3452.1 (103X5.3)	4
16	BACK UP RING (RAM /BONNET)	C663-22 (115X126.6X2.5)	4
17	BACK UP RING	C663-22(Ø64X72.6X1.7)	8
18	BACK UP RING (FLANGE/PISTON)	C663-22(Ø48X56.6X1.7)	4
19	GUIDE RING	2C01.45	4
<i>20</i>	ORING (INTERMEDIATE/ OPEING CLOSING PISTON)	GB3452.1 (65X5.3)	4
21	O-RING (INT FLANGE / BONNET)	GB/T3452.1(307X7)	4
22	BACK UP RING (INT FLANGE / BONNET)	C633-22(305X316.6X2.5)	4
23	PISTON SEAL	GM-120712	4
<i>24</i>	SEAL RING AND TAIL ROD	H601-	4
		Ø76.2X92.08X14.27/15.72	
25	SEALING GLAND	2C05.05	4
26	SEAL PLUG	2C05.04	4
27	TOP SEAL	2C06.08A.03	6
28	FRONT SEAL 2"3/8	2C06.08C.02	2
29	O-RING	G3452.1(77.5X5.3)	6
<i>30</i>	ORING (BODY/PISTON)	GB3452.1 (47.5X5.3)	4

(*)NB: :- OEM parts are required

-To provide COC as per 16A & API QMS Attached:-COC of the BOP in the end of the inquiry

LOT02: Spare parts for accumulator FKQ640-6 SHANKAI SN 12-74(**)

Item	Description	Reference	QTY
1	REPAIR KIT FOR 34ZS 21-25 CONTROL VALVE		8
2	THREE POSITION -FOUR WAY CONTROL VALVE	34ZS21-25	6
3	REPAIR KIT FOR 24ZS 21-25 CONTROL VALVE		2
4	TWO POSITION -THREE WAY CONTROL VALVE	24ZS21-25	1
5	MANIFOLD RELIEF VALVE	Y40-20	1
6	RELIEF VALVE	Y25-20	1
7	REPAIR KIT FOR TRIPLEX PUMP MODEL QB21-80		2
8	REPAIR KIT FOR MANUEL OPERATED REGULATOR MODEL		2
	JYS21-25		
9	REPAIR KIT FOR AIR OPERATED AND MANUEL		2
	REGULATOR MODEL JYS21-25		
10	OIL FILTER	WF11B-16TG1''	2
11	3-POSITION AND 4-WAY OPERATED VALVE	34XR6Y-L8F	10
12	HIGH PRESSEUR BALL VALVE (WITH UNLOADING)	31.5MPA-Z1 1/2''	16
13	ACCUMULATOR INFLATABLE CHECK VALVE	NXQ1-L40/31.5/H-	20
		CQF	
14	ACCUMULATOR SKIN CAPSULE	40L	20
15	SHOCKPROOF PRESSURE GAUGE (AXIAL M20X1.5)	YB100BF (0-	5
		25MPA)	
<i>16</i>	PROPORTIONAL PRESSUER GAUGE	Y-100ZT (0-	10
		40MPA)	
<i>17</i>	QUICK CONNECTOR	NPT 1" 5000 PSI	50
18	ACTIONNEUR PNEUMATIQUE	RT035DA	1
19	PNEUMATIC PRESSURE TRANSMITTER	YPQ-40	2
20	EX PRESSEUR SWITCH	YTK-02E	2
21	EXPLOSION PROOF ELECTRON BELL	BAL-24D	1
22	MAGNETIC LIQUIDE LEVEL CONTROLLER	UHZ-58	1
23	EXLOSION PROOF PLUG & SOCKET	BAC15/10	2
24	CIRCUIT BREAKER 60A	MCCB ABS 63B	1

(**)NB: :-OEM parts are required

-To provide COC for all parts as per API-16D -Provide API Monogram 16D

Attached: - Certificate of Origin in the end of the inquiry
-Certificate of Product Quality in the end of the inquiry

ATTACHMENT B

UNPRICED TECHNICAL OFFER

LOT01: Spare Parts for BOP Single 11"X5000 SHENKAI SK16111

TO:

PRO-FORMA INVOICE FORMAT USING YOUR COMPANY LETTER HEAD

FROM:

DRESS: LEPHONE N° : X N°: NTACT NAME:		
ITEM	QTY	DESCRIPTION
		Detailed description of the EUIPEMENT
		<u>AUTHORIZED SIGNATURE</u>
NAME :		SIGNATURE : DATE :
TTTLE:	•••••	
TTTLE :		

UNPRICED TECHNICAL OFFER

LOT02: Spare parts for accumulator FKQ640-6 SHANKAI SN 12-74

PRO-FORMA INVOICE FORMAT USING YOUR COMPANY LETTER HEAD

		······································	TO: COMPAGNIE TUNISIENNE DE FORAGE 19 RUE DE L'ARTISANAT 2035 CHARGUIA II ARIANA – L'AEROPRO' TUNIS - TUNISIA ICE N°:
	DATE	<i>:</i>	
ITEM	QTY		DESCRIPTION
		Detailed de.	scription of the EUIPEMENT
		<u>AUTHORIZEL</u>	<u>D SIGNATURE</u>
NAME :	•••••••		SIGNATURE :
TITLE :			DATE:
	ſ	COMPAN	VY STAMP
	l-		

ATTACHMENT C

PRICED FINACIAL OFFER

LOT01: Spare Parts for BOP Single 11"X5000 SHENKAI SK16111

PRO-FORMA INVOICE FORMAT USING YOUR COMPANY LETTER HEAD

ADDRESS: TELEPHO FAX N°:	NE N°:	NAME:	TO: COMPAGNIE TUNISIENNE DE FORAGE 19 RUE DE L'ARTISANAT 2035 CHARGUIA II ARIANA – L'AEROPROT TUNIS - TUNISIA		
		DATE :			
ITEM	QTY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE	
		Detailed description of the EQUIPMENT			
TOTAL MA	TERIAL	VALUE EX-WORKS			
CHARGE	S(PACK	ING, HANDLING , ETC)			
TOTAL FO	CA .				
- DELIVERY - TERMS OF	Y FROM A F PAYME Y OF BIL	AND GROSS WEIGHT:DATE OF ORDER ACKNOWLEDGEM. ENT: NET 30 DAYS/ CASH AGAIN O(TO BE NOT LESS THAN 90 DAYS FOR AND CONDITIONS:	ENT: Preferably 03 weeks to VST DOCUMENT ROM BID CLOSING DATE):		
		<u>AUTHORIZEI</u>	O SIGNATURE		
<i>NAME</i> :	•••••		SIGNATURE:		
TITLE :	•••••	<u> </u>	DATE :		
		COMPAN	Y STAMP :		

PRICED FINACIAL OFFER

LOT02: Spare parts for accumulator FKQ640-6 SHANKAI SN 12-74

PRO-FORMA INVOICE FORMAT USING YOUR COMPANY LETTER HEAD

FROM: BIDDER'S FULL NAME: ADDRESS: TELEPHONE N°: FAX N°: CONTACT NAME:			TO: COMPAGNIE TUNISIENNE DE FORAGE 19 RUE DE L'ARTISANAT 2035 CHARGUIA II ARIANA – L'AEROPROT TUNIS - TUNISIA		
		PRO-FORMA INVO DATE :	ICE N*:		
ITEM	QTY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE	
		Detailed description of the EQUIPMENT			
TOTAL MA	TERIAL	VALUE EX-WORKS			
CHARGES	(PACK	ING, HANDLING , ETC)			
TOTAL FC	'A				
- DELIVERY - TERMS OF - VALIDITY	F PAYME F OF BIL	AND GROSS WEIGHT:	MENT: Preferably 03 weeks to (NST DOCUMENT FROM BID CLOSING DATE):		
		<u>AUTHORIZE</u>	ED SIGNATURE		
<i>NAME</i> :	••••••		SIGNATURE:		
TITLE :	•••••		DATE :		
		COMPA	NY STAMP :		

ATTACHMENT D

MAIN TERMS AND CONDITIONS

ATTACHMENT D

MAIN TERMS AND CONDITIONS

A Purchase Order will be issued to the successful bidders based on the following main terms and conditions

1/ Purchase Order Prices

Purchase Order prices are inclusive of all rights, duties and taxes applicable outside Tunisia and related to the supply of Each lot including all costs related to packing, handling, shipping and delivery.

2/ Prices validity:

The prices of the Purchase Order, shall remain firm throughout delivery and not subject to any revision.

3/ Payment:

Payment will be made by wire transfer to the supplier's designated Bank account no later than 30 days from date of receipt of invoice.

4/ Payment of subcontractors:

Subcontractors are paid directly by the supplier; CTF will not assume any liability in case supplier does not pay his subcontractors.

5/ Conformity:

The SPARE PARTS shall be in conformity with the technical specifications set forth in attachment A and in supplier's quote.

CTF reserves the right to call on experts or technicians of it's choice to examine, control and test the SPARE PARTS in view of their acceptance.

In the event SPARE PARTS turn out not to be in conformity, expert fees will be at supplier's cost even in case of replacement of the rejected SPARE PARTS.

Accordingly supplier will not be entitled to make any claim of what ever nature as a result of incurring above costs.

6/ Delivery:

Delivery will be as stated in supplier's bid and the resulting Purchase Order.

Such delivery shall be respected and no delays will be allowed except as provided under article 10 (Force Majeure).

7/ Packing and Transport:

7-1Packing and marking:

> Packing:

Supplier shall pack the SPARE PARTS adequately in such a manner as to prevent any damages during transport from ex-works.

Packing shall be adequate to provide good conservation during handling, bad weather etc... supplier shall bear the full responsibility for damages resulting from improper packing of material.

The packaging must be only in cardboard or in wood boxes instead of plastic packing otherwise penalities will be applied

> Marking

Each parcel shall be clearly marked to mention the following:

COMPAGNIE TUNISIENNE DE FORAGE 19 RUE DE L'ARTISANAT – CHARGUIA II

L'AEROPORT – 2035 ARIANA

TUNISIA

PURCHASE ORDER N•

Packing shall be marked to show the following informations:

- Supplier's name and address.
- Parcel number in X/N form (the numerator will indicate the sequential number of the parcel and de denominator the total number of parcels).
- Gross weight of each parcel.
- Dimension of each parcel in form $L \times W \times H$ (length $\times W$ width $\times W$ height)
- Special marking as required for specific material such as fragile, Top, Bottom etc....

7-2 Insurance coverage:

CTF will be responsible for insurance coverage of the risks involved in transport of the SPARE PARTS from port of loading or F.O.T (if delivery by truck) to port of unloading in accordance with the provision of incorterms 2000 or latest edition of ICC

However supplier shall be responsible for packing, handling and loading of the SPARE PARTS on the vessel or truck.

8/ Loss, Damages, Rejected Material

8.1 Loss, damages:

Supplier is required to replace as soon as possible at his costs and expenses (including all costs involved from ex-works to CTF designated delivery site) any missing items or non conformity of part or the totality of the items

All expenses, fees and taxes of what ever nature and – notwithstanding their amounts- incurred in making such replacements as provided in this article will be at supplier's cost.

8.2 Rejected material

Any material rejected by CTF shall be replaced by supplier at his sole cost and expenses and without compensation, as soon as possible but no later than Seven (07) days from date of rejection notification.

9/ Guarantee:

Supplier shall guarantee the SPARE PARTS against any hidden defect, fabrication or materials defects for a period of 12 months from date of first usage or 18 months from shipping date (as stated in the bill of lading or CMR whichever comes first).

This guarantee shall also cover any and all costs related to travel of personnel, packing and shipment incurred when replacing or repairing defective material weather at a designated location or at CTF Base.

During the guarantee period, supplier shall make any repairs requested by CTF. However, he can request to be reimbursed in case he determines that such repairs are not covered by the guarantee or are due to CTF unproper usage or handling of the SPARE PARTS

10/ Force Majeure

Neither party will be considered as failing to meet it's contractual obligations in case such failure is delayed, hindered or prevented by a case of force majeure.

Force majeure is defined as any unpredictable, irresistible event beyond the concerned party control which prevents him from meeting part or all of his obligations setforth in the present contract.

Strikes of supplier's personnel will not be considered as case of force majeure.

In the event delivery of the SPARE PARTS complete with accessories will be partially or totally hampered due to a case of force majeure, supplier shall advise CTF within **Three** (03) days by formal notification of the commencement and end of force majeure as well as the likely consequences on the fulfillment of this contractual obligation.

He shall also provide CTF with credible evidence of the existence and duration of the case of force majeure. CTF reserves the right to evaluate the reasons hampering the fulfillment of supplier's contractual obligations and to decide whether they are among force majeure cases or not.

Time required to fulfill supplier's contractual obligations will be extended by the number of days required to overcome the force majeure case. Should the force majeure case exceeds **Ten** (10) days; CTF reserves the right to cancel the Purchase Order by written notice (fax or e-mail).

11/ Disputes And Conflicts

Any disputes related to the interpretation or the execution of the present contract –unless settled amicably by the parties- shall be settled by the competent Tunisian court.

产品质量档案 PRODUCT QUALITY DOCUMENT

产品型号	
Product Model	11"-5000Psi
产品名称	单闸板防喷器
Product Name	Single Ram BOP
产品编号	
Product No.	SK16111
报告日期	
Report Date	

上海神开石油设备有限公司 Shanghai Shenkai Petroleum Equipment Co., Ltd Company Name

: Shanghai Shenkai Petroleum Equipment Co.,Ltd.

Address

: No.1769 Puxing Road, MinhangDistrict, Shanghai, China

Phone

: 021-54332841



Certificate of Conformance New Manufacture

Certificate number

: SK16111

Valid from

: 2016.11.27

General		
Customer Name	SAKSON	
Customer Address	39th,Floor,JBC 1 ,P.O.Box:454907 JLT,Dubai,UA	
Customer Purchase Order number	16000001	
COC History	Certificate Number	Issue Date
Original Certificate of Conformance	SK16111	2016.11.27

Original Equipment History					
Equipment Type/Description/Rating		11"-5000Psi S	ingle Ram BOP		
Original Equipment Manufacturer Na	ame	Shanghai She	Shanghai Shenkai Petroleum Equipment Co., Li		
Original Date of Manufacturing		2016.11.27			
Original OEM Job order / Purchase C	order number	SKF16W-126			
OEM Assembly Serial Number		SK16111			
API Monogram/Marking (Yes / No)		Yes	Yes		
Temp rating (min/max)		T20 (-29℃—	T20 (-29℃—121℃)		
H2S Rated for H2S Service		Service			
Applicable Engineering codes and St	tandards		Revision / Edition	Issue Date	
API-16A, Specification for Drill Throu	gh Equipment		3 rd edition	2004.12.3	
API-6A, Specification for Wellhead a	nd Christmas Tree Ed	juipment	20 th edition	2011.4.1	
ISO-15156 part 1, 2 and 3 (NACE MR	-0175), H2S resistant	ce	2009 edition	2009.10.15	
API-Q1 Quality Control and Assurance	ce		9 th edition	2014.6.1	
Notes on Scope of Certification	The Ram Bop is	in compliance with t	he latest edition of NACE	MR0175	

Quality Control and Quality Assurance	Yes
Full material traceability (mill certificate with heat number composition, material properties and total number of heat treatments) available for all components.	Yes
Welding Product Specifications (WPS) and Welding Product Qualification Records (WPQR) meet or exceed applicable international and / or Class Society standards.	Yes
Scope of Work verified	Yes
Certification required with API Monogram	Yes

Approved By

Qualification

Date

SHENKAI

Yong Wang 11.27

Reviewed by QA Manager



Company Name

: Shanghai Shenkai Petroleum Equipment Co.,Ltd.

Address

: No.1769 Puxing Road, MinhangDistrict, Shanghai, China

Phone

: 021-54332841



Certificate of Conformance New Manufacture

Certificate number

: SKF3422

Valid from

: 2016.11.27

General			
Customer Name	SAKSON		
Customer Address	ress 39th, Floor, JBC 1,P.O.Box:454907 JLT,Duba		
Customer Purchase Order number	16000001		
COC History	Certificate Number	Issue Date	
Original Certificate of Conformance	SKF3422	2016.11.27	

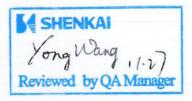
Original Equipment History				
Equipment Type/Description/Rating		2-3/8" Ram A	ssembly	
Original Equipment Manufacturer Na	ame	Shanghai Shenkai Petroleum Equipment Co.,		nt Co., Ltd,
Original Date of Manufacturing		2016.11.27		
Original OEM Job order / Purchase O	nase Order number SKF16W-126			
OEM Assembly Serial Number SKF3422				
Temp rating (min/max)		T20 (-29°C—121°C)		
H2S	Rated for H2S Service			
Applicable Engineering codes and St	tandards		Revision / Edition	Issue Date
API-16A, Specification for Drill Throu	gh Equipment		3 rd edition	2004.12.3
API-6A, Specification for Wellhead ar	nd Christmas Tree Eq	uipment	20 th edition	2011.4.1
ISO-15156 part 1, 2 and 3 (NACE MR	-0175), H2S resistand	ce	2009 edition	2009.10.15
API-Q1 Quality Control and Assurance	e		9 th edition	2014.6.1
Notes on Scope of Certification	The Ram Bop is	in compliance with t	he latest edition of NACE	MR0175

Quality Control and Quality Assurance	Yes
Full material traceability (mill certificate with heat number composition, material properties and total number of heat treatments) available for all components.	Yes
Welding Product Specifications (WPS) and Welding Product Qualification Records (WPQR) meet or exceed applicable international and / or Class Society standards.	Yes
Scope of Work verified	Yes

Approved By

Qualification

Date





SK/QHSEWR-01-91-03 (A0)

上海神开石油设备有限公司

SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO., LTD 金属材料化学成分检测报告

METALLIC MATERIAL CHEMICAL COMPOSITION TEST REPORT

Sender)] 0	外协音 utsource Dep		试样材 Sample M		25CrN	NiMo	炉号 Heat-lot		142-0230
Test	检测设备 Test Equipment Spectro MAXx **Box Procedure		ST	热处理 Heat-trea Stat	tment	■正火/ nor □退火/anne		检测日期 Test Date		2016-9-30
	试样编号 Sample No. 16-0152			试验》 Test Temp		25°	С	报告签发日 Date report	1.10(0.00)	2016-9-30
试验标? Test Stand	佳 em ard □G	B/T 11170	ometric ana 不锈钢 多	lysis of carl 元素含量的	oon and lo 内测定火布	w-Alloy stee	l 対光谱仪	ard test method Stainless steel— method		*
验收准贝 Acceptan Criteria	cas Si for ce A nat	sting K/QHSEW-0 ging NSI/API 16 ural gas indu	11-42 防喷 A /ISO 13 stries —dri 0175 油田i	器承压及搭 533/GB/T Iling and pi 设备用抗硝	E压锻件力 20174 roduction	支术条件/Spe 石油和天然 ⁴ equipment—	cification 【工业钻井 drill-throug	n for pressure co for pressure cor 和采油设备钻 gh equipment Sulfide stress	ntaining/c 井通道设	ontrolling pa
元素 Element	С	Mn	Si	S	Р	Cr	Ni	Мо		
要求值 Requirem	0.25-0.3	0.70-0.90	0.20-0.40	≤0.015	≤0.025	0.40-0.70	0.40-0.70	0.15-0.25		
-ents										
-ents 实测	0. 26	0.89	0. 26	0.005	0. 007	0. 69	0. 65	0. 25		
-ents 实测 Measured	0. 26	0.89		0.005			0.65 weight p			
-ents 实测 Measured	S/N 符行	:142-0230	单位(9 11"-5000 ISO 13533、	%重量百; Psi 壳(GB/T201	分含量) ^{本/Shell} 74、NAC	Unit (%	weight p	ercent) SEW-01-42 要求		
ents 实测 Measured value	S/N 符行 Acc 保行 Sav 本打	:142-0230 API 16A/ cord with AP 字部门: 质量 ed by Qualit 设告仅对来材	单位(9 11"-50000 ISO 13533、 I 16A/ISO 量部,保存 y Dept. For 详负责;部	%重量百; Psi 壳(GB/T201 13533, GB; 期限为 10 a period of 分复制报偿	分含量) 本/Shell 74、NAC /T 20174, 年; 10 years; 示无效。	Unit (%	和 SK/QH:	ercent)		

No.: SK/QHSEWR-01-91-04 (A0)

上海神开石油设备有限公司

SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO.LTD 金属材料机械性能检测报告 METAL MATERIAL MECHANICAL PROPERTIES TEST REPORT

客户名称 Customer	外协部 Outsource Department	1000	t样名称 pple Name	φ10mm 拉伸试样 10×10×55mm 冲击试 φ10mm Tensile Test Pi 10×10×55mmImpact Specimen			详编号 iple No.	201	6-0124
试样材料 Sample Material	25CrNiMo	520000000000000000000000000000000000000	热处理状态 t-treatment State	调质 Quenching ar Tempering			试样炉号 Heat-lot		2-0230
试样取样方向 Sample Direction	纵向 Longitudinal Direction		t测设备 Equipment	SUNS UTM5305 电子试验机/Electronic unitensile testing macl SUNS PTM2200D1 排冲击试验机/Char pendulum impact test	iversal nine 医锤式 py	检测条件 Test Conditions		ns GB/T	228A ₂₂₄
检测温度 Test Temperature	20°C	54555	t测日期 est Date	2016-10-27	期 ed 2016	5-10-27			
检测标准 Test Standard	GB/T-228/ISO 6892 金属 temperature ASTM A370 钢产品力的 Products						- 5		
	□SK/QHSEW-01-41 防雪	5哭承压	及均压铸钢件	技术 久世/Crocific	ation for	nressure	containi	ng/controlling part	s casting
验收准则 Acceptance Criteria	■SK/QHSEW-01-42 防雪 ■ANSI/API 16A /ISO 1: natural gas industries —d ■NACE MR 0175 油田的 oilfield equipment	58番承压》 533/GB/T filling and p	及控压锻件技 20174 石油 production equip	术条件/Specification 和天然气工业 Sment—drill-through	on for pre 钻井和 equipme	essure co 平油设 ent	intaining :备 钌	/controlling parts f i并通道设备 P	orging etroleum ar
Acceptance	■SK/QHSEW-01-42 防喷 ■ANSI/API 16A /ISO 13 natural gas industries —d ■NACE MR 0175 油田i oilfield equipment 规定塑性	58番承压》 533/GB/T filling and p	及控压锻件技 20174 石油 production equip 硫化物应力腐	术条件/Specification和天然气工业和天然气工业如ment—drill-through蚀开裂的金属材	on for pre 钻井和 equipme	essure co 平油设 ent de stress	ntaining 备 针 crackin 冲击值	/controlling parts fr 打井通道设备 P g resistant metallio	orging etroleum ar
Acceptance	■SK/QHSEW-01-42 防吗■ANSI/API 16A /ISO 13 natural gas industries —d ■NACE MR 0175 油田ioilfield equipment 规定塑性 延伸强度 0.2%Yield Strength	赞器承压》 8533/GB/T filling and p 设备用抗码	及控压锻件技 20174 石油 production equip	术条件/Specification和天然气工业和天然气工业和ent—drill-through性开裂的金属材	的 for pre 钻井和 equipme 料 Sulfi	essure co 平油设 ent de stress	mtaining 备 铅 crackin 冲击值 ct Value	/controlling parts fr 打井通道设备 P g resistant metallio	orging etroleum ar c materials fo 硬度
Acceptance Criteria 检测项目 Test Item	■SK/QHSEW-01-42 防喷 ■ANSI/API 16A /ISO 1: natural gas industries —d ■NACE MR 0175 油田ioilfield equipment 規定塑性 延伸强度 0.2%Yield Strength (MPa)	传器承压》 \$533/GB/T filling and p 设备用抗心 立强度 ensile ength	及控压锻件技 20174 石油 production equip 硫化物应力腐 断面收缩率 Reduction of Area	术条件/Specificatic 和天然气工业 oment—drill-through 蚀开裂的金属材	的 for pre 钻井和 equipme 料 Sulfi	essure co I 采油设 ent de stress Impac 温度等级 erature l	mtaining 备 铅 crackin 冲击值 ct Value	/controlling parts for 中通道设备 P g resistant metallic (J) 平均值	orging etroleum and comaterials fo 硬度 Hardness
Acceptance Criteria 检测项目 Test Item	■SK/QHSEW-01-42 防喷 ■ANSI/API 16A /ISO 1: natural gas industries —d ■NACE MR 0175 油田ioilfield equipment 規定塑性 延伸强度 0.2%Yield Strength (MPa) ≥517	债器承压及 3533/GB/T rilling and p 设备用抗闭 立强度 ensile rength MPa)	及控压锻件技 20174 石油 production equip 硫化物应力腐 断面收缩率 Reduction of Area (%)	术条件/Specificatic 和天然气工业 ment—drill-through 蚀开裂的金属材 伸长率 Elongation (%)	的 for pre 钻井和 equipme 料 Sulfi	essure co I采油设 ent de stress Impac 温度等组 erature I T-20	mtaining 备 铅 crackin 冲击值 ct Value	resistant metallic (J) 平均值 Average value	orging etroleum an c materials fo 硬度 Hardness
Acceptance Criteria 检测项目 Test Item 要求值 Requirements 实测值	■SK/QHSEW-01-42 防喷 ■ANSI/API 16A /ISO 1: natural gas industries —d ■NACE MR 0175 油田 ioilfield equipment 规定塑性 延伸强度 176	t 器承压及 3533/GB/T filling and p 设备用抗码 立强度 ensile ength MPa) 2655 731 000Psi 2、ANSI	及控压锻件技 20174 石油 production equip 硫化物应力腐 断面收缩率 Reduction of Area (%) ≥35 76 壳体/Shell	术条件/Specificatic 和天然气工业 oment—drill-through 蚀开裂的金属材 伸长率 Elongation (%) ≥18.0 21.5	on for pre 钻井和 equipme 料 Sulfii Temp	essure co □ 采油设 ent de stress Impac 温度等级 erature I T-20 ≥27	mtaining 备 知 crackin 冲击值 ct Value B Rating	/controlling parts for 中通道设备 P g resistant metallic (J) 平均值 Average value ≥27 133	etroleum ar c materials fe 硬度 Hardness HBW 210-234
Acceptance Criteria 检测项目 Test Item 要求值 Requirements 实测值 Tested Value	■SK/QHSEW-01-42 防喷 ■ANSI/API 16A /ISO 1: natural gas industries —d ■NACE MR 0175 油田 ioilfield equipment 规定塑性 延伸强度 1.2%Yield Strength (MPa) ≥517 ≥ 591	機器承压及 3533/GB/T filling and p 设备用抗る 立强度 ensile ength MPa) 2655 731 000Psi 2、ANSI W-01-42。 実期限为1 years in Q 部分复続	及控压锻件技 20174 石油 production equip 硫化物应力腐 断面收缩率 Reduction of Area(%) ≥35 76 壳体/Shell I/API 16A /ISO ANSI/API 16	术条件/Specificatic 和天然气工业 oment—drill-through 蚀开裂的金属材 伸长率 Elongation (%) ≥18.0 21.5 21.5 A /ISO 13533, GB/T 2	on for pre 钻井和 equipme 料 Sulfii Temp	Essure co I 采油设 ent de stress Impac 温度等组 erature I T-20 ≥27 137 NACE M	mtaining 备 知 crackin 冲击值 ct Value B Rating 138 MR 017 CE MR	/controlling parts for 中通道设备 P g resistant metallic (J) 平均值 Average value ≥27 133	orging etroleum ar c materials fo 硬度 Hardness HBW 210-234

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No. 1769, Pu Xing Rd

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上海神开石油设备有限公司 SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO., LTD 金属材料化学成分检测报告

METALLIC MATERIAL CHEMICAL COMPOSITION TEST REPORT

送验部 Sender	7,000	外协部 utsource Dep		试样材 Sample N		25Crl	NiMo	炉号 Heat-lot	DJ16-8037
检测设律 Test Equipme	nt I	光谱仪 Metals Analyzer ■Spectro TEST □Spectro MAXx		热处理 Heat-trea Stat	atment	■正火/ nor 退火/anne	STATE OF THE OWNER, WHEN THE PARTY OF THE PA	检测日期 Test Date	2016-9-18
	试样编号 Sample No. 16-0145			试验》 Test Temp		25℃		报告签发日期 Date reported	2010-9-18
试验标/ Test Stand	佳 em ard □G	B/T 11170	ometric and 不锈钢 多	alysis of car 另元素含量的	bon and lo 的测定火机	w-Alloy stee	l 対射光谱仪	/Stainless steel— d	r spark discharge atomic
验收准贝 Acceptand Criteria	cas Signate Cas Signate Cas Signate Cas	sting K/QHSEW-0 ging NSI/API 16 ural gas indu	01-42 防喷 5A /ISO 1. stries —dr 0175 油田	器承压及护 3533/GB/T filling and p 设备用抗弱	空压锻件力 20174 7 roduction	技术条件/Spe 石油和天然 ⁴ equipment—	ecification 气工业钻井 -drill-throug	for pressure conta :和采油设备钻井; gh equipment	aining/controlling part aining/controlling part 通道设备 Petroleum an racking resistant metalli
元素 Element	С	Mn	Si	S	P	Cr	Ni	Мо	
-ents	0.25-0.3	00.70-0.90	0.20-0.40	≤0.015	≤0.025	0.40-0.70	0.40-0.70	0.15-0.25	
实测 Measured value	0. 26	0. 76	0. 26	0.005	0.008	0.48	0. 52	0. 19	
			单位(%重量百	分含量)	Unit (%	weight p	ercent)	
结论 Conclusio	n 符合		ISO 13533	GB/T201		E MR 0175		SEW-01-42 要求。 K/QHSEW-01-42.	
备注 Remark	保ィ Sav 本非	字部门:质如 red by Qualit 设告仅对来标	量部,保存 y Dept. Fo: ^{羊负责} ; 部	期限为 10 r a period of 分复制报台	年; 10 years; 5无效。			t be allowed.	洲机会
检验: Tested by:	张	幸石石石	8	审核: Checked	PŁ	Ac		批准: Approved by:	支兵

地址:上海市浦星公路 1769 号 No. 1769, Pu Xing Rd 盖章 Stamp

No.: SK/QHSEWR-01-91-04 (A0)

上海神开石油设备有限公司

SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO.LTD 金属材料机械性能检测报告 METAL MATERIAL MECHANICAL PROPERTIES TEST REPORT

客户名称 Customer	外协部 Outsource Departme	747	式样名称 nple Name	φ10mm 拉伸试样 10×10×55mm 冲击试 φ10mm Tensile Test P 10×10×55mmImpact Specimen			样编号 nple No	. 201	6-0126
试样材料 Sample Material	25CrNiMo	- War 199	热处理状态 it-treatment State	调质 Quenching a Tempering		试样炉号 Heat-lot		DJ1	6-8037
试样取样方向 Sample Direction	纵向 Longitudinal Directi	1070	佥测设备 Equipment	SUNS UTM5305 电子万能 试验机/Electronic universal tensile testing machine SUNS PTM2200D1 摆锤式 冲击试验机/Charpy pendulum impact test device		检测条件 Test Condition		ns GB/T	228A ₂₂₄
检测温度 Test Temperature	20℃	389	查测日期 Test Date	2016-10-27			签发日 Reporte	71117	5-10-27
检测标准 Test Standard	GB/T-228/ISO 6892 金 temperature ASTM A370 钢产品; Products								
	□SK/QHSEW-01-41 Ø	田屋展部	及挖压铸钢件	技术条件/Specific	ation for	pressure	contain	ing/controlling part	e caeting
验收准则 Acceptance Criteria	■SK/QHSEW-01-42 段 ■ANSI/API 16A /ISO natural gas industries – ■NACE MR 0175 油目 oilfield equipment	5喷器承压 13533/GB/T -drilling and	及控压锻件技 20174 石油 production equip	术条件/Specificati i和天然气工业 oment—drill-through	on for pre 钻井和 equipm	essure co 印采油设 ent	ontaining : 备 句	/controlling parts fo 持通道设备 P	orging etroleum and
Acceptance	■SK/QHSEW-01-42 例 ■ANSI/API 16A /ISO natural gas industries – ■NACE MR 0175 油E oilfield equipment 规定塑性	5喷器承压 13533/GB/T -drilling and	及控压锻件技 20174 石油 production equip	术条件/Specification 和天然气工业 pment—drill-through 使开裂的金属材	on for pre 钻井和 equipm	essure co 印采油设 ent ide stress	ontaining 备 名 crackin 冲击值	/controlling parts fr 5井通道设备 P g resistant metallic	orging etroleum and
Acceptance	■SK/QHSEW-01-42 序 ■ANSI/API 16A /ISO natural gas industries – ■NACE MR 0175 油 E oilfield equipment 规定塑性 延伸强度 0.2%Yield Strength	5喷器承压 13533/GB/T -drilling and 日设备用抗	及控压锻件技 20174 石油 production equip 硫化物应力腐	术条件/Specificatin和天然气工业oment—drill-throught性开裂的金属材	on for pre 钻井和 equipm 料 Sulfi	essure co 印采油设 ent ide stress	pntaining 各 纪 crackin 冲击值 ct Value	/controlling parts fr 5井通道设备 P g resistant metallic	orging etroleum and c materials fo 硬度
Acceptance Criteria 检测项目 Test Item	■SK/QHSEW-01-42 例 ■ANSI/API 16A /ISO natural gas industries – ■NACE MR 0175 油 Boilfield equipment 规定塑性 延伸强度 0.2%Yield Strength	的喷器承压 13533/GB/T -drilling and 日设备用抗 抗拉强度 Tensile Strength	及控压锻件技 20174 石油 production equip 硫化物应力腹 断面收缩率 Reduction of Area	术条件/Specification 不条件/Specification 不条气工业 coment—drill-through 使开裂的金属材 使长率 Elongation	on for pre 钻井和 equipm 料 Sulfi	essure con 采油设ent ide stress Impa	pntaining 各 纪 crackin 冲击值 ct Value	/controlling parts for 与井通道设备 P g resistant metallic ((J)	etroleum and ematerials fo 硬度 Hardness
Acceptance Criteria 检测项目 Test Item	■SK/QHSEW-01-42 序 ■ANSI/API 16A /ISO natural gas industries - ■NACE MR 0175 油 E oilfield equipment 规定塑性 延伸强度 0.2%Yield Strength (MPa)	方喷器承压 13533/GB/T -drilling and 日设备用抗 亢拉强度 Tensile Strength (MPa)	及控压锻件技 · 20174 石油 production equip 硫化物应力牌 断面收缩率 Reduction of Area (%)	术条件/Specification 和天然气工业 pment—drill-through 蚀开裂的金属材 作长率 Elongation (%)	on for pre 钻井和 equipm 料 Sulfi	essure cc 可采油设 ent ide stress Impa 温度等约 erature 1 T-20	pntaining 各 纪 crackin 冲击值 ct Value	/controlling parts for 古井通道设备 P g resistant metallic (J) 平均值 Average value	etroleum and ematerials fo 硬度 Hardness
Acceptance Criteria 检测项目 Test Item 要求值 Requirements 实测值	■SK/QHSEW-01-42 序 ■ANSI/API 16A /ISO natural gas industries - ■NACE MR 0175 油目 oilfield equipment 规定塑性 延伸强度 0.2%Yield Strength (MPa) ≥517 526 S/N:DJ16-8037-1、□ 符合 SK/QHSEW-01	市喷器承压 13533/GB/I -drilling and 日设备用抗	及控压锻件技 20174 石油 production equip 硫化物应力像 断面收缩率 Reduction of Area (%) ≥35 77 2 11"-5000 I/API 16A /ISO	术条件/Specification 不条件/Specification 不然气工业 Oment—drill-through 使开裂的金属材件长率 Elongation (%) ≥18.0 22.5 □Psi 侧门/Side □ 13533、GB/T 2	on for pro 钻井和 equipm 料 Sulfi Temp	essure ccurred and a surface stress limpa	ontaining A 和 c crackin 冲击值 ct Value 及 Rating	/controlling parts ft 古井通道设备 P g resistant metallic () () 平均值 Average value ≥27 47	orging etroleum an e materials fo 硬度 Hardness HBW 210-234
Acceptance Criteria 检测项目 Test Item 要求值 Requirements 实测值 Tested Value	■SK/QHSEW-01-42 序 ■ANSI/API 16A /ISO natural gas industries - ■NACE MR 0175 油 E oilfield equipment 规定塑性 延伸强度 0.2%Yield Strength (MPa) ≥517 526 S/N:DJ16-8037-1、E	所需承压 13533/GB/I drilling and 日设备用抗 抗拉强度 Tensile Strength (MPa) ≥655 675 DJ16-8037-2 -42、ANS EW-01-42 Pyears in C	及控压锻件技 20174 石油 production equip 硫化物应力像 断面收缩溶 Reduction of Area (%) ≥35 77 2 11"-5000 I/API 16A /ISO ANSI/API 16 10 年; Quality Dept. 制报告无效	术条件/Specification 不条件/Specification 不然气工业 Oment—drill-through 使开裂的金属材件长率 Elongation (%) ≥18.0 22.5 OPsi 侧门/Side D 13533、GB/T 2 A /ISO 13533、GB/T 2	on for pro 钻井和 equipm 料 Sulfi Temp 57 door 20174、 3/T 201	essure ccurred and a surface stress limpa	ontaining A 和 crackin 冲击值 ct Value 及 Rating 46	/controlling parts ft 古井通道设备 P g resistant metallic () () 平均值 Average value ≥27 47	orging etroleum and c materials fo 硬度 Hardness HBW 210-234

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上海神开石油设备有限公司 SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO., LTD

超声波检测报告

ULTRASONIC INSPECTION REPORT

送验部门:制造部/外协部

Sender: MFG. /Outsourcing Dept.

检测日期: 2016-11-10

Test Date:

报告编号: 2016-11-10-1U

Report No .:

报告日期: 2016-11-10

Reporting Date:

产品型号/名称 Model/ Description	闸板防喷器 Ram BOP	零件图号/名称 Part No/ Description 炉号/追溯号 Heat-lot/SN	C46.02A01.01 壳体 Shell 142-0230	材料 Material	25CrNiMo
热处理状态 Heat-treatment State	Quenching and Tempering 调质	仪器型号 Instrument Code	CST-2600	检测标准 Inspecting Standard	ASME A388
频率 Frequency	2MHz/ 1MHz	探头型号 Probe Code	MB2S B2S/ 9*9K1	探伤方法 Inspection Method	■纵波直探头 Longitudinal Waves Normal Probe ■横波斜探头 Transverse Wave Angle Probe
灵敏度 Sensitivity	Φ3.2/ 基准灵敏度 Reference sensitivity+6dB	表面补偿 Surface Compensation	6dB	耦合剂 Couplet	机油 Machine Oil
表面状态 Surface State	精加工 Ra6.3 (machined) 打磨至 Ra 12.5μm Polish to Ra 12.5μm	试块 Block	工件大平底 Large flat / 矩形槽试块 Rectangular groove block	检测区域 Detection Area	整体 Body
验收准则 Acceptance criteria		SEW-02-6.8、SI API 16A 3 rd /ISO			06。
缺陷描述 Deficiency Description	未发现超标	缺陷。There wa	as no deficiency.		
检测结论 Conclusion	■ 可接受	/ Acceptable		不可接受/ Re	jectable

(NDT Level II)

校核者/Checker: (NDT Level II)

保存部门: 质管部

Department: Quality Dept.

保存期限: 10 年 Keeping Storage Life: 10 years

上海神开石油设备有限公司 SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO., LTD

超声波检测报告

ULTRASONIC INSPECTION REPORT

送验部门:制造部/外协部

Sender: MFG. /Outsourcing Dept.

检测日期: 2016-11-11

Test Date:

报告编号: 2016-11-11-1U

Report No.:

报告日期: 2016-11-11

Reporting Date:

产品型号/名称 Model/ Description	闸板防喷器 Ram BOP	零件图号/名称 Part No/ Description 炉号/追溯号 Heat-lot/SN	2C09.04.01 中间法兰 /Intermediate flange DJ16-8037-1 DJ16-8037-2	材料 Material	25CrNiMo
热处理状态 Heat-treatment State	Quenching and Tempering 调质	仪器型号 Instrument Code	CST-2600	检测标准 Inspecting Standard	ASME A388
频率 Frequency	2MHz	探头型号 Probe Code	MB2S B2S/	探伤方法 Inspection Method	■纵波直探头 Longitudinal Waves Normal Probe □横波斜探头 Transverse Wave Angle Probe
灵敏度 Sensitivity	Ф3.2	表面补偿 Surface Compensation	6dB	耦合剂 Couplet	机油 Machine Oil
表面状态 Surface State	精加工 Ra6.3 (machined) 打磨至 Ra 12.5μm Polish to Ra 12.5μm	试块 Block	工件大平底 Large flat /	检测区域 Detection Area	整体 Body
验收准则 Acceptance criteria			K/QHSEW-02-6. 13533:2001、GH		06。
缺陷描述 Deficiency Description	未发现超标	缺陷。There w	as no deficiency.		
检测结论 Conclusion	■ 可接受	/ Acceptable		不可接受/ Re	jectable
报告者/Reporter (NDT Level II			校核者/Checker (NDT Level)		4

保存部门: 质管部

Department: _Quality _Dept._

保存期限: 10 年 Keeping

Storage Life: 10 years

上海神开石油设备有限公司 SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO., LTD 磁粉检测报告

MAGNETIC PARTICLE EXAMINATION REPORT

送验部门:制造部/外协部

Sender: MFG. /Outsourcing Dept.

检测日期: 2016-11-10

Test Date:

报告编号: 2016-11-10-1M

Report No .:

报告日期: 2016-11-10

Reporting Date:

产品型号/名称 Model/ Description	闸板防喷器 Ram BOP	零件图号/名称 Part No/ Description 炉号/追溯号 Heat-lot/SN	C46.02A01.01 壳体 Shell 142-0230	材料 Material	25CrNiMo
热处理状态 Heat-treatment State	Quenching and Tempering 调质	仪器/型号 Instrument/ Model	MY-2	检测标准 Inspecting Standard	ISO 10893-5
磁粉 Magnetic Particle	HD-YN 荧光磁粉 Fluorescent Wet Method Particles	□磁化电流 Magnetization electrical current ■提升力 Lifting force	>45N	磁化方法 Magnetization Method	交流连续法 AC. Continuity Method
检测区域 Detection Area	可探区域 Available Area	表面状态 Surface State	精加工 Ra 3.2 Machined to Ra 3.2	试片 Gauge	A1-30/100 试片 A1-30/100Gauge
验收准则 Acceptance criteria	■ SK/QHS ■ ANSI/AI	EW-02-6.9、SK/0 PI 16A 3 rd /ISO 13	QHSEW-02-6.12。 533:2001、GB/T20	174-2006。	
缺陷描述 Deficiency Description	未发现超标纸	決陷。There was i	no deficiency.		
检测结论 Conclusion	■ 可接受 /	Acceptable		不可接受/ Reject	able
报告者/Reporter (NDT Level II)			校核/Checker (NDT Level	1914	

保存部门: 质管部

Keeping Department: _Quality _Dept._

保存期限: 10年 Storage Life: 10 years

上海神开石油设备有限公司 SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO., LTD 磁粉检测报告

MAGNETIC PARTICLE EXAMINATION REPORT

送验部门:制造部/外协部

Sender: MFG. /Outsourcing Dept.

检测日期: 2016-11-11

Test Date:

报告编号: 2016-11-11-1M

Report No.:

报告日期: 2016-11-11

Reporting Date:

				Reporting Date:	
产品型号/名称 Model/ Description	闸板防喷器 Ram BOP	零件图号/名称 Part No/ Description 炉号/追溯号 Heat-lot/SN	2C09.04.01 中间法兰 /Intermediate flange DJ16-8037-1 DJ16-8037-2	材料 Material	25CrNiMo
热处理状态 Heat-treatment State	Quenching and Tempering 调质	仪器/型号 Instrument/ Model	MY-2	检测标准 Inspecting Standard	ISO 10893-5
磁粉 Magnetic Particle	HD-YN 荧光磁粉 Fluorescent Wet Method Particles	□磁化电流 Magnetization electrical current ■提升力 Lifting force	>45N	磁化方法 Magnetization Method	交流连续法 AC. Continuity Method
检测区域 Detection Area	可探区域 Available Area	表面状态 Surface State	精加工 Ra 3.2 Machined to Ra 3.2	试片 Gauge	A1-30/100 试片 A1-30/100Gaug
验收准则 Acceptance criteria	■ SK/QHS ■ ANSI/AI	EW-02-6.9、SK/0 PI 16A 3 rd /ISO 13	QHSEW-02-6.12。 3533:2001、GB/T20	174-2006。	
缺陷描述 Deficiency Description	未发现超标的	決陷。There was	no deficiency.		
检测结论 Conclusion	■ 可接受 /	Acceptable	0.7	不可接受/ Reject	able
报告者/Reporter (NDT Level II)			校核/Checker (NDT Level	F 1987	

保存部门: 质管部

Keeping Department: Quality Dept.

保存期限: 10年后 丛 Storage Life: 10 years

上海神开石油设备有限公司 SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO., LTD 渗透检测报告

LIQUID PENETRANT EXAMINATION REPORT

送验部门:制造部/外协部

Sender: MFG. /Outsourcing Dept.

检测日期: 2016-11-10

Test Date:

报告编号: 2016-11-10-1P

Report No.:

报告日期: 2016-11-10

Reporting Date:

产品型号/名称 Model/ Description	闸板防喷器 Ram BOP	零件图号/名称 Part No/ Description 炉号/追溯号 Heat-lot/SN	C46.02A01.01 壳体 Shell 142-0230	材料 Material	ER-347/ 25CrNiMo
热处理状态 Heat-treatment State	Quenching and Tempering 调质	探伤方法 Inspection Method	着色渗透法 Dye Penetrant Inspection	检测标准 Inspecting Standard	ASTM E165
渗透时间 Dwell Time	10 分 min	显像时间 Developing Time	10 分 min	渗透剂 Penetrant Type	HD 系列 HD Serier
试块类型 Block Type	B型 B Type	探伤区域 Detection Area	垫环槽及 磁粉不可探部位 RingGroove& MT.UntouchedAreas	检测温度 Testing Temperature	15℃
验收准则 Acceptance criteria	SK/QH ANSI/A	SEW-02-6.10、SK/0 API 16A 3 rd /ISO 135	QHSEW-02-6.12。 533:2001、GB/T2017	4-2006。	
缺陷描述 Deficiency Description	未发现超标	示缺陷。There was n	o deficiency.		
检测结论 Conclusion	■ 可接勢	受 / Acceptable	口不	可接受/ Reject	able
报告者/Reporter			校核/Checker: (NDT Level II)	7 22 3	投資

保存部门: 质管部

Keeping Department: _Quality _Dept._

保存期限: 10年

Storage Life: 10 years

上海神开石油设备有限公司 SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO., LTD

渗透检测报告

LIQUID PENETRANT EXAMINATION REPORT

送验部门:制造部/外协部

Sender: MFG. /Outsourcing Dept.

检测日期: 2016-11-11

Test Date:

报告编号: 2016-11-11-1P

Report No .:

报告日期: 2016-11-11

Reporting Date:

产品型号/名称 Model/ Description	闸板防喷器 Ram BOP	零件图号/名称 Part No/ Description 炉号/追溯号 Heat-lot/SN	2C09.04.01 中间法兰 /Intermediate flange DJ16-8037-1 DJ16-8037-2	材料 Material	625/ 25CrNiMo
热处理状态 Heat-treatment State	Quenching and Tempering 调质	探伤方法 Inspection Method	着色渗透法 Dye Penetrant Inspection	检测标准 Inspecting Standard	ASTM E165
渗透时间 Dwell Time	10 分 min	显像时间 Developing Time	10 分 min	渗透剂 Penetrant Type	HD 系列 HD Serier
试块类型 Block Type	B 型 B Type	探伤区域 Detection Area	垫环槽及 磁粉不可探部位 RingGroove& MT.UntouchedAreas	检测温度 Testing Temperature	15℃
验收准则 Acceptance criteria		SEW-02-6.10、SK/0 API 16A 3 rd /ISO 135	QHSEW-02-6.12。 533:2001、GB/T2017	4-2006。	
缺陷描述 Deficiency Description	未发现超标	示缺陷。There was n	o deficiency.		
检测结论 Conclusion	■ 可接到	受 / Acceptable	口不	可接受/ Rejec	table
报告者/Reporter			校核/Checker: (NDT Level II)		曲设金

保存部门: 质管部

Keeping Department: Quality Dept.

保存期限: 10年

Storage Life: _10_years_



产品试压报告 Product Pressure Test Report

产品型号:

Product Model FZ28-35U

产品名称 单闸板防喷器

Product Name Single Ram BOP

产品编号:

Product No. SK16111

上海神开石油设备有限公司

Shanghai Shenkai Petroleum Equipment Co., Ltd

单闸板防喷器出厂试验记录表

Single Ram BOP Delivery Test Record

ZJQ/SK2.7-02

产品型号

产品编号 Product no. Product model FZ28-35U

SK16111

试验日期

Date tested <u>2016-11-25</u>

试验	检验要求		开腔压力 Opening pressure /MPa		关腔压力 Closing pressure /MPa		试验压力 Wellbore pressure /MPa		稳压时间 Holding time /min		试验结果	
项目 Test items		更加 安木 ptance crite	ria	要求 值 Required value	实测 值 Actual value	要求 值 Required value	实测 值 Actual value	要求 值 Required value	实测 值 Actual value	要求 值 Required Value (≥)	实测 值 Actual value	Test result
売体、侧门及连接 螺栓无裂纹或明显 残余变形,无渗漏 为合格。		纹或明显	第一次 lst					52.5	54.12	3	3	合格 OK
试 验 Hydrostatic proof test	No crack residual d or leakage	eformation e on shell, oor and olts.	第二次 2nd					52.5	54.09	15	15	合格 OK
			第一次 Ist	31.5	33.5					3	3	合格 OK
液控部分 强度试验	各密封部(合格。	立无渗漏为	第二次 2nd	31.5	33.7					15	15	合格 OK
Hydraulic operating chamber test	I/O	ge on each g parts.	第一次 · lst			31.5	34.3			3	3	合格 OK
			第二次 2nd		- 22	31.5	34.5		**	15	15	合格 OK
液动关闭密 封性能试验 Sealing	胶芯等 密封部 位无渗 漏为合 格。		低压 Low pressure			≤10.5	10.2	1.4~ 2.1	1.57	10	10	合格 OK
properties test with hydraulic closure	No leakage on each sealing parts.	23/8" Drill pipe in BOP	高压 High pressure			≤10.5	10.5	35	36.87	10	10	合格 OK

试验		检验要求		开腔压力 Opening pressure /MPa		关腔压力 Closing pressure /MPa		试验压力 Wellbore pressure /MPa		稳压时间 Holding time /min		试验结果	
项目 Test items	Acceptance criteria			要求 值 Required value	实测 值 Actual value	要求 值 Required value	实测 值 Actual value	要求 值 Required value	实测 值 Actual value	要求 值 Required Value (≥)	实测 值 Actual value	Test result	
锁紧装置密 封性能试验 Ram-locking system test 手动	股芯等 密封部 位无渗 漏为合 格。	封 23/8″ 管柱	低床 Low pressure					1.4~	1.91	10	10	合格 OK	
Manual locking 【 √ 】 液动 Hydraulic automatic locking 【 】	No	23/8" Drill pipe in BOP	高压 High pressure					35	36.92	10	10	合格 OK	
通径 试验 Drift test	用下 The drift	在不施加夕 通过为合格 mandrel sh re without l forced.	生。 all pass	11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	eter o	278.77 f drif	t mand	rel is	10. 975	in.		合格 OK	

试验人一考度证

检验员 JAMINSpector

壳体炉号

Shell heat-lot 142-0230

侧门炉号

Side door heat-lot <u>DJ16_8037-1</u> <u>DJ16_8037-2</u>

保管部门: 质管部

保管期限: 10年

Keeping Department: _Quality _Dept.

Storage Life: __10_year_

上海神开石油设备有限公司 产品试压报告单

产品型号: FZ28-35U

产品编号: SK16111

试压标准: API-16A

产品名称: 单闸板防喷器

试压方式: 自动试压

试压类型: 强度试验

壳体追溯号: 142-0230

侧门追溯号1:DJ16-8037-1

侧门追溯号2:DJ16-8037-2

试压设备: 德国G300型气动泵

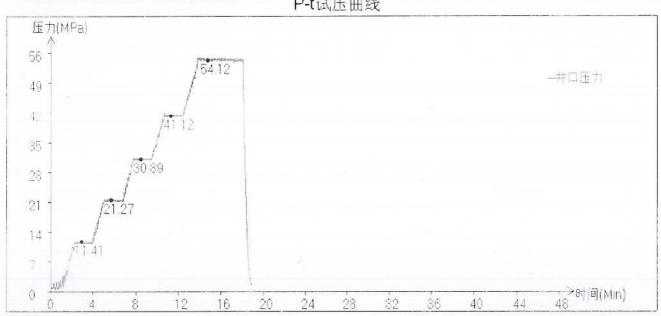
压力传感器编号: 0911005

法压过程

					Particus 1	Comment of the commen					
段号	段压	最大段压	最小段压	压差	稳压时间	段号	段压	最大段压	最小段压	压差	稳压时间
1	11,41	11.41	11.27	0.14	1.00	4	41.12	41.12	41.05	0.07	1.00
2	21.27	21.27	21.20	0.07	1.00	5	54.12	54.12	54.05	0.07	3.01
3	30 89	30 89	30.82	0.07	1 00						

说明压力单位为MPa,时间单位为分钟

P-t试压曲线



试验结论 开始时间

2016-11-20 15:26

完成时间: 2016-11-20 15:45

装配员

检验员

tuda

上海神开石油设备有限公司 产品试压报告单

产品型号: FZ28-35U

产品编号: SK16111

试压标准: API-16A

产品名称: 单闸板防喷器

试压方式: 自动试压

试压类型: 强度试验

壳体追溯号:142-0230

侧门追溯号1:DJ16-8037-1

侧门追溯号2:DJ16-8037-2

试压设备: 德国G300型气动泵

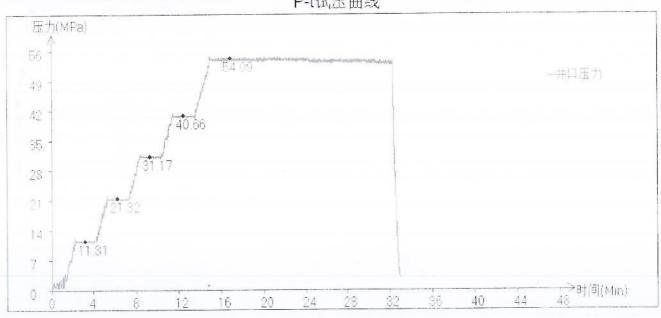
压力传感器编号: 0911005

特压过程

段号	段压	最大段压	最小段压	压差	稳压时间	1/E 段号	段压	最大段压	最小段压	压差	稳压时间
Ī	1131	11.31	11.24	0.07	1 00	4	40.66	40.66	40 66	0.00	1.00
2	21.32	21.32	21.11	0.21	1.01	5	54.09	54.09	53.69	0.40	15.01
3	31.17	31.17	31.09	0.08	1.00						

说明压力单位为MPa, 时间单位为分钟

P-t试压曲线



试验结论

完成时间: <u>2016-11-2016:25</u> 试验员: **考程派** 检验

Fasta

开始时间

2016-11-20 15:52

检验员:

上海神开石油设备有限公司 油缸试压报告单

产品型号: FZ28-35U

产品编号: SK16111

试压标准: API-16A

产品名称: 单闸板防喷器

试压方式: 自动试压

试压类型: 性能试验

闸板类型: 半封

试压设备: 油缸实验设备

壳体追溯号:142-0230

Min Min Min Min

侧门追溯号1: DT16-8037-1

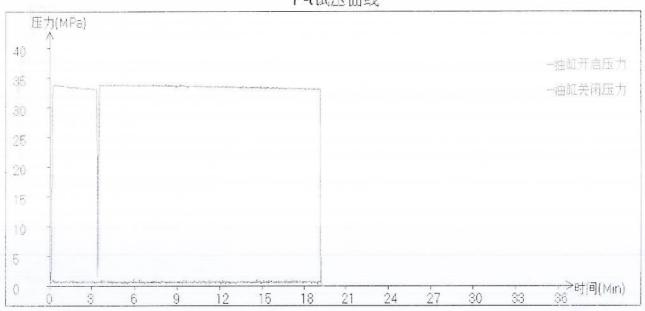
侧门追溯号2: DJ16-8037-2

试压过程

油缸开启压力:	33.5	MPa	保压时间:	3.2
油缸关闭压力	0.0	MPa MPa	保压时间	0.0
油缸开启压力	33.7	MPa	保压时间 _	15.3
油缸类铒压力	0.0	MPa	保压时间	0.0

说明:压力单位为MPa, 时间单位为分钟

P-t试压曲线



试验结论

took

开始时间: 2016-11-21 09 42

完成时间: 2016-11-21 10:02

试验员: 查住液

上海神开石油设备有限公司 油缸试压报告单

产品型号: FZ28-35U

产品编号: SK16111

试压标准: API-16A

产品名称: 单闸板防喷器

试压方式: 自动试压

试压类型: 强度试验

间板类型: 半封

试压设备: 油缸实验设备

壳体追溯号: 142-0230

侧门追溯号1: DJ16-8037-1 侧门追溯号2: DJ16-8037-2

试压过程

油缸开启压力: 油缸关闭压力

油缸开启压力

油缸关闭压力:

0.0 34.3

MPa MPa

0.0 MPa 34.5 MPa 保压时间: 0.0 Min

保压时间

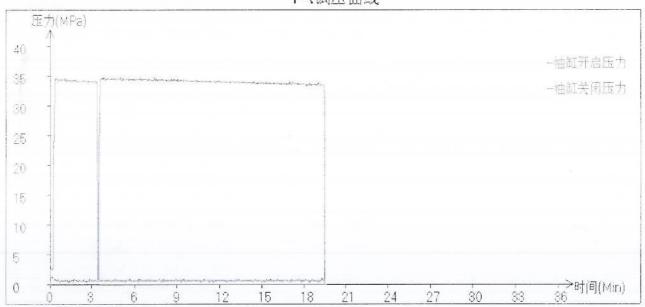
32 Min 0.0 Min

保压时间 保压时间:

15.6 Min

说明压力单位为MPa、时间单位为分钟

P-t试压曲线



试验结论

开始时间: 2016-11-21 10:03

完成时间: 2016-11-21 10:23 试验员: **汽性派** 检题

take

装配员

上海神开石油设备有限公司 产品试压报告单

产品型号: FZ28-35U 产品编号: SK16111 试压标准: API-16A 产品名称: 单闸板防喷器

试压方式: 自动试压 试压类型: 性能试验

关闭/锁紧方式:液动关闭 闸板类型: 半封

模拟钻杆尺寸: 2 3/8英寸 壳体追溯号:142-0230

侧门追溯号1:DJ16-8037-1 侧门追溯号2:DJ16-8037-2

试压设备: 德国G300型气动泵

胶 芯: SKF3422

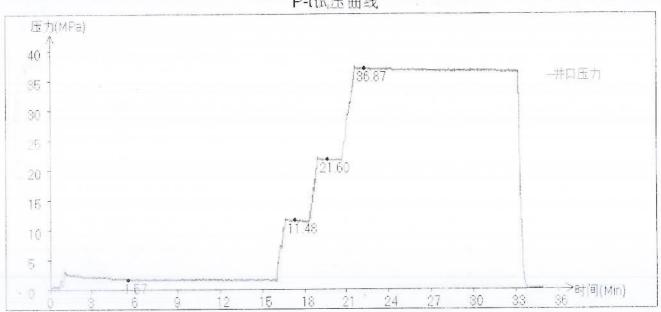
压力传感器编号: 0911005

法国法理

段号	段压	最大段压			稳压时间		段压	最大段压	最小段压	压差	稳压时间
1	1.57	1.57	1.53	0.04	10.48	3	21.60	21.60	21.60	0.00	1.00
2	11 48	11.48	11.37	0.11	1.00	4	36.87	36.87	36 44	0.43	1001

说明 压力单位为MPa, 时间单位为分钟

P-t试压曲线



试验结论

开始时间: 2016-11-25 15:03

试验员:考住派

完成时间: 2016-11-25 15:38

tasta

检验员:

上海神开石油设备有限公司 产品试压报告单

产品型号: FZ28-35U 产品编号: SK16111 试压标准: API-16A 产品名称: 单闸板防喷器

试压方式: 自动试压 试压类型: 性能试验

关闭/锁紧方式:手动锁紧 闸板类型: 半封

模拟钻杆尺寸: 2 3/8英寸 竞体追溯号:142-0230

侧门追溯号1:DJ16-8037-1 侧门追溯号2:DJ16-8037-2

胶 芯: SKF3422

试压设备: 德国G300型气动泵

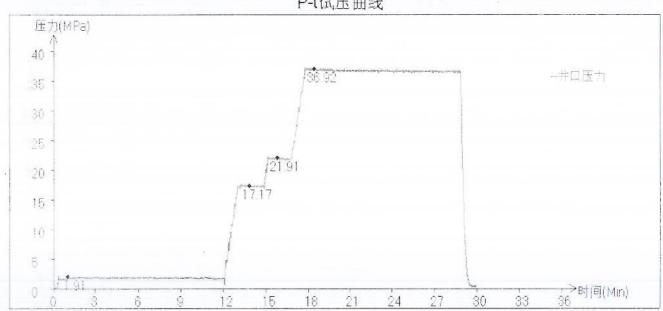
压力传感器编号: 0911005

试压过程

段号	段压	最大段压	最小段压	压差	稳压时间		段压	最大段压	最小段压	压差	稳压时间
1	1.91	1,91	1.56	0,35	11.00	3	21.91	21.91	21.84	0.07	1 01
2	1717	1717	1710	0.07	1 00	4	36 92	36 92	36.54	0.38	10.01

说明压力单位为MPa, 时间单位为分钟

P-t试压曲线



试验结论

开始时间

2016-11-25 15:39

完成时间: 2016-11-25 16 09 试验员: 考性版 检验

Shanghai ShenKai Petroleum Equipment Co.,Ltd

Product Test Report

Product Type: FZ28-35U

Product No:

SK16111

Test Standard: API-16A

Product Name: Single Ram BOP

Test Method:

Automatic

Test Type: Strength

Shell SN:

142-0230

Sidedoor1 SN:

DJ16-8037-1

Sidedoor2 SN:

DJ16-8037-2

Test Equipment: German G300 Gas Pump

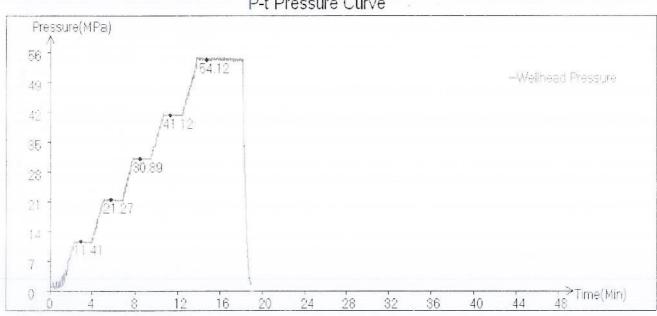
Pressure Transducer No: 0911005

Pressure Test Process

No	Test Press	Мах	Min	Diff	Keep Time	No	Test Press	Мах	Min	Diff	Keep Time
1	11.41	11.41	11.27	0.14	1.00	4	41.12	41.12	41.05	0.07	1.00
2	21.27	21 27	21.20	0.07	1.00	5	54.12	54.12	54.05	0.07	3.01
3	30.89	30.89	30.82	0.07	1.00						

Pressure Unit: MPa. Time Unit. Min.

P-t Pressure Curve



Test Result

Start Time 2016-11-20 15:26

End Time: 2016-11-20 15 45

Qualified

Shanghai ShenKai Petroleum Equipment Co.,Ltd

Product Test Report

Product Type:

FZ28-35U

Product No:

SK16111

Test Standard: API-16A

Product Name: Single Ram BOP

Test Method:

Automatic

Test Type: Strength

DJ16-8037-1

Sidedoor2 SN: DJ16-8037-2

Test Equipment German G300 Gas Pump

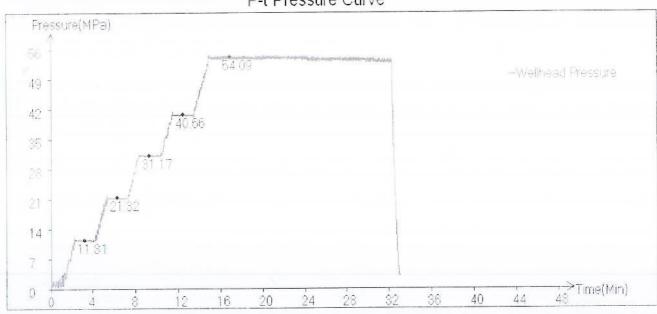
Pressure Transducer No. 0911005

Pressure Test Process

No	Test Press	Мах	Min	Diff	Keep Time	No	Test Press	Мах	Min	Diff	Keep Time
1	11.31	11.31	11.24	0.07	1.00	4	40 66	40.66	40.66	0.00	1 00
2	21.82	21.32	21.11	0.21	1.01	5	54 09	54.09	53.69	0.40	15.01
3	31.17	31,17	31.09	0.08	1.00						

Pressure Unit: MPa, Time Unit: Min

P-t Pressure Curve



Test Result

Start Time: 2016-11-20 15:52

End Time: 2016-11-20 16:

Shanghai ShenKai Petroleum Equipment Co., Ltd

Cylinder Test Report

Product Type: FZ28-35U

Product No:

SK18111

Test Standard: API-16A

Product Name: Single Ram BOP

Test Method: Automatic

Test Type:

Cylinder Strength

Ram Type: Pipe Ram

Test Equipment Cylinder TE

Sidedoor1 SN: DJ16-8037-1

Shell SN:

142-0230

Sidedoor2 SN: DJ16-8037-2

мРа

Pressure Test Process

Cylinder open Pressure:	33,5	MPa	
Cylinder close Pressure:	0.0	MPa	
Cylinder open Pressure:	33.7	MPa	

0.0

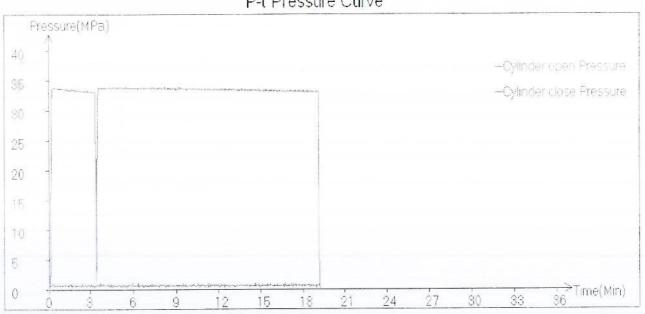
Keep Time: 3.2 Min Keep Time: 0.0 Min

Keep Time: 15.3 Min 0.0 Keep Time: Min

Pressure Unit: MPa, Time Unit: Min

Cylinder close Pressure.

P-t Pressure Curve



Test Result

Start Time: 2016-11-21 09:42

End Time: 2016-11-21

Shanghai ShenKai Petroleum Equipment Co.,Ltd

Cylinder Test Report

Product Type: FZ28-35U

Product No:

SK16111

Test Standard: API-16A

Product Name 单闸板防喷器

Test Method: Automatic

Test Type:

Cylinder Strength

Ram Type Pipe Ram

Test Equipment Cylinder TE

Shell SN.

Sidedoor1 SN: DJ16-8037-1

MPa

MPa

142-0230

Sidedoor2 SN: DJ16-8037-2

Pressure Test Process

Cylinder open Pressure

0.0

Keep Time: Keep Time:

0.0 Min 3.2 Min

Cylinder close Pressure: Cylinder open Pressure. 34.3 0.0

Keep Time:

0.0 Min

Cylinder close Pressure.

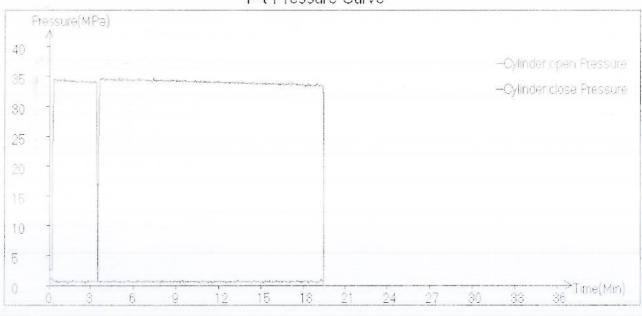
MPa 34.5 MPa

Keep Time:

15.6 Min

Pressure Unit: MPa. Time Unit: Min.

P-t Pressure Curve



Test Result

Start Time: 2016-11-21 10:03

End Time: 2016-11-21

Assembler:

Tester:

Shanghai ShenKai Petroleum Equipment Co.,Ltd

Product Test Report

Product Type: FZ28-35U

Product No: SK16111 Test Standard API-16A Product Name Single Ram BOP

Test Method: Automatic

Test Type: Characteristic

Shell SN:

Lock Method: Hydraulic Ram Type: Pipe Block

Drillpipe Dia.: 2 3/8 Inch

142-0230

Sidedoor1 SN: DJ16-8037-1

Sidedoor2 SN:

DJ16-8037-2 Test Equipment German G300 Gas Pump Packer No. SKF3422

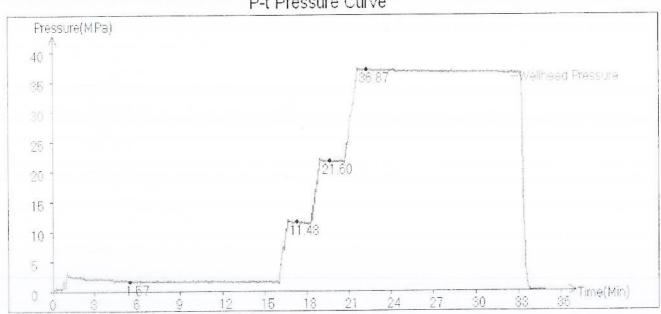
Pressure Transducer No: 0911005

Pressure Test Process

No	Test Press	Max	Min	Diff	Keep Time	No	Test Press	Мах	Min	Diff	Keep Time
1	1.57	1.57	1,53	0.04	10.48	3	21.60	21.60	21.60	0.00	1.00
2	11.48	11.48	11,37	0.11	1.00	4	36.87	36.87	36.44	0.43	10.01

Pressure Unit: MPa. Time Unit. Min.

P-t Pressure Curve



Test Result

Start Time: 2016-11-25 15:03

End Time 2016-11-25 15:38
Tester: 发发版 Insr

Qualified

Shanghai ShenKai Petroleum Equipment Co.,Ltd Product Test Report

Product Type: FZ28-35U Product No: SK16111 Test Standard: API-16A Product Name Single Ram BOP

Test Method: Automatic Test Type: Characteristic Lock Method: Manual Ram Type: Pipe Block

Drillpipe Dia 2 3/8 Inch

Shell SN.

142-0230 Sidedoor1 SN: DJ16-8037-1

Sidedoor2 SN DJ16-8037-2 Test Equipment German G300 Gas Pump Packer No. SKF3422

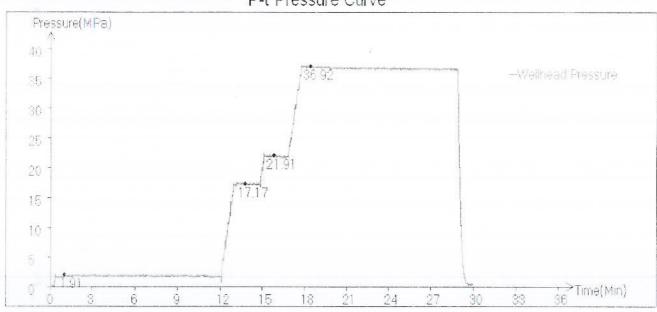
Pressure Transducer No: 0911005

Pressure Test Process

No	Test Press	Max	Min	Diff	Keep Time	No	Test Press	Мах	Min	Diff	Keep Time
- 1	1.91	1.91	1.56	0.35	11.00	3	21.91	21.91	21.84	0.07	1.01
2	17.17	17.17	17.10	0.07	1.00	4	36 92	36.92	36.54	0.38	10.01

Pressure Unit: MPa, Time Unit: Min

P-t Pressure Curve



Test Result:

Assembler //

Start Time 2016-11-25 15 39

End Time 2016-11-25 16 09
Tester 指性 Inco



合格证

Certificate of Product Quality

产品性能、设计、材料、试验和检验符合合同规定的技术条件, 防喷器类产品符合ANSI/API 16A:2004 第三版/ISO 13533:2001、 GB/T 20174:2006规范, 防喷器控制装置类产品符合API 16D: 2004 第二版、SY/T 5053.2:2007规范, 产品合格同意出厂。

The performance, design, materials, testing and inspection of products conform to the requirements of contracts, blowout preventers products comply with ANSI/API 16A:2004 Third Edition /ISO 13533:2001and GB/T 20174:2006 standard, control system for blowout preventers comply with API 16D:2004 Second Edition, SY/T 5053.2:2007, and are approved for delivery.

产品名称: 地面防喷器控制装置

Product Name Control System for Surface-mounted BOP Stack

产品型号: Product Type FKQ640-6 数量: Quantity

产品编号: 12-74 Serial No 出厂日期: 2012-10-11 Release Date

检验员多点根

质检专用章: Inspection Stamp



上海神开石油设备有限公司

SHANGHAI SHENKAI PETROLEUM EQUIPMENT CO., LTD.

ORIGINAL

1. Exporter Certificate No. **CCPIT** 123421587 Shanghai SK petroleum equipment Co., Ltd. No. 1769 Puxing road, Shanghai 201114 China Phone: +86-21-64293625 | Fax: +86-21-34030004 12C3100A4260/00057 CERTIFICATE OF ORIGIN OF 2. Consignee THE PEOPLE'S REPUBLIC OF CHINA SAKSON EGYPT PETROLEUM FREE ZONE CO. S.A.E C/O 20 RUE CHENOUA HYDRA ALGER Tel: 213 21484350 Fax: 213 21609103 Contract No.: SC-4016860-12 3. Means of transport and route 5. For certifying authority use only FROM SHANGHAI CHINA TO ALGERIA ORAN BY SEA China Council Co. 13 Promotion of Internet ones Insue(OCPIT) is China 4. Country / region of destination ALGERIA Champer of International Commerce 8. H.S.Code 9. Quantity 10. Number 6 Marks and numbers 7. Number and kind of packages; description of goods and date of invoices N/M ONE (1) BOX OF Accumulator System 1210004 84123900 1SET OCT. 23, 2012 ************ 12. Certification 11. Declaration by the exporter The undersigned hereby declares that the above details and statements It is hereby certified that the declaration by the exporter is correct. are correct, that all the goods were produced in China and that they comply with the Rules of Origin of the People's Republic of China. SHANGHAI OCT. 23, 2012 signature and stamp of certifying authority Place and da Place and date, signature and stamp of authorized signatory