



DEFINITIONS

Blowout Preventer

The equipment (or valve) installed at the wellhead to contain wellbore pressure either in the annular space between the casing and the tubular or in an open hole during drilling, completion, testing, or work over

operations.

Annular Blowout Preventer

A device that uses an elastomeric packing unit to seal off pressure on a well bore with or without tubular in the bore.

RAM Blowout Preventer

A valve that uses metal blocks with integral elastomeric seals to seal off pressure on a well bore with or without tubular in the bore.



Manufacturer & Type

HYDRIL- ANNULAR









SHAFFER -SPHERICAL



Wedge Cover



Bolted Cover



GENERAL

Manufacturer & Type

HYDRIL - RAM



Work over BOP



Conventional



Compact

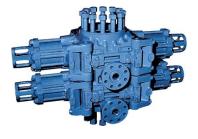
SHAFFER - RAM



Chasovoy



SL/SLX



LWS



NXT



VISION & MISSION

VISION

TO BE A WELL KNOWN COMPANY WITHIN THE REGION IN PROVIDING TECHNICAL SERVICES AND MAINTENANCE OF DRILLING EQUIPMENT

MISSION

TO INCREASE HUMAN RESOURCES COMPETENCY AND CAPABILITY IN KNOWLEDGE & TECHNOLOGY FOR BETTER CONTRIBUTION IN OIL AND GAS ACTIVITY



COMPANY PROFILE

SCOPE OF BUSSINES:

REPAIR, REMANUFACTURE, DRILLING EQUIP. IAW API 16A & 6A

BLOW OUT PREVENTER,

DRILLING SPOOLS,

FLUID ENDS,

VALVES, ETC.

MANAGEMENT COMMITMENT

- COMMITED TO INCREASE COMPANY RESOURCES IN TERMS OF COMPETENCY AND CAPABILITY FOR SAFELY PRODUCING HIGH QUALITY SERVICE AND PRODUCTS
- COMMITTED TO CONTINUALLY ADOPT OF TECHNOLOGY ADVANTAGES FOR BUSSINES ENHANCEMENT



PROBLEMS IN USE OF BOP

- □ AVAILABILITY OF SPARE PARTS & SOFT GOODS:
 - SEALS/RUBBER PACKING
- □ LEAKING / UNPROPER WORKING MAY RESULT FROM
 - DAMAGED SEALS / PACKING
 - DAMAGED METAL SEALING SURFACE

 CORROSION, WORN; SCRATCHES, DENTS
- □CRACKS DUE TO
- HIGH STRESS EXISTING
- H2S ATTACKING -UNPROPER METAL HARDNESS
- UNCONTROLLED WELDING
- UNPROPER/UNCONTROLLED PWHT



JMS SERVICES

- TO TIMELY PROVIDE PARTS / SOFT GOODS
 FOREIGN VENDOR AGENT
- ☐ TO PROVIDE SERVICES IN INSPECTION & TESTING IN TERMS OF MAINTENANCE AFTER / PRIOR TO USE
- ☐ TO DO WORKSHOP REPAIR, REMANUFACTURE AND TEST
- ☐ TO PERFORM MIGAS CERTIFICATION/RECERTIFICATION



REPAIR/REMANUFACTURE PROCESS

RECEVING

DIS-ASSEMBLY

INSPECTION/ REC'DATION IQUOTATION & WORK SCOPE

CLIENT PO & WORKSCOPE







PACKING& SHIPPING COMMITED TO SAFETY & QUALITY QUALITY PLAN

COC & DATA REPORT

PAINTING

TESTING IAW API 16A BUILT UP

REPAIR

PWHT

MACHINING

RE-ASSEMBLY



WHAT IS QUALITY PLAN?

- THE WAY TO ACHIEVE AGIVEN QUALITY / CRITERIA STATED IN STANDARD / SPECIFICATION.
- PLANNED ACTIVITIES, PROCEDURES USED, CRITERIA VERIFICATION AND RECORDS REQUIRED FOR A CERTAIN ACTIVITY



RECEIVING INSPECTION

- TAKE PHOTOS
- RECORD IDENTIFICATION OF THE UNIT
- RECORD TYPE OF THE UNIT- MAKER, CLASS, SIZE
- RECORD ACCESSORIES OF THE UNIT
- GENERAL VISUAL APPEARANCE OF THE UNIT
- ALLOCATE JOB NUMBER FOR THE UNIT



DIS-ASSEMBLY

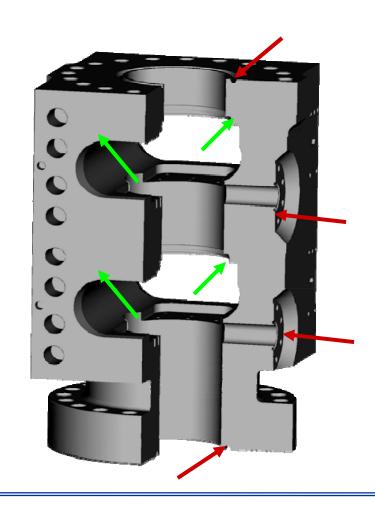
- MANUAL EQUIPMENT
- WATER BASED LUBE OIL FOR SEALS



INSPECTION & RECCOMMEDATION

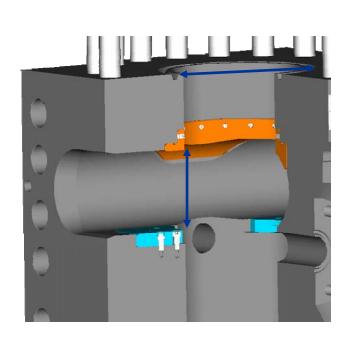
VISUAL - sealing surface

Green - Inconel Red - CRA (SS 309)



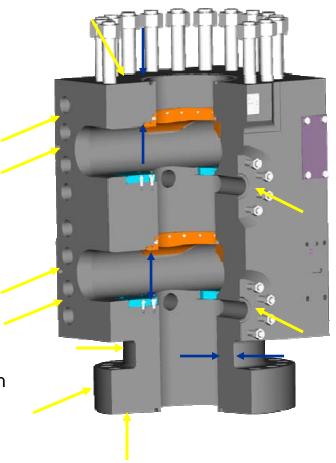


INSPECTION & RECCOMMEDATION



Yellow arrow - hardness location

Blue - critical dimensions





QUOTATION & WORK SCOPE

- QUOTATION & WORK SCOPE BASED ON RECCOMENDATION AS A RESULT OF INSPECTION
- CLIENT MAY CHANGE WORK SCOPE



BUILD UP PROCESS

WELDING

- PMI
- USING APPROPRIETE WPS
- RECORD AND MAINTAIN WELDING PARAMETERS
- VISUAL/NDT AND HARDNESS TEST

METAL COATING

- THERE SOME METHODS USED FOR SURFACE BUILD UP
- SERVICE CONDITION IS BASIC CONSIDERATION FOR SELECTION



PWHT (POST WELD HEAT TREATMENT)

CRITICAL PHASE - ATTENTION SHOULD BE GIVEN TO

- HEATING RATE
- SOAKING TEMPERATURE
- COOLING RATE TO TEMP +/- 750 F

HARDNESS CHECK

- HARDNESS WILL CONFIRM THE ACCEPTABILITY OF PWHT
- HARDNESS NOT MORE THAN 22 HRC FOR SOUR SERVICE



RE-ASSEMBLY

- CHECK ALL PARTS FOR CORRECTNESS & COMPLETENESS
- USE MANUAL BOOK AS REFERENCE
- SOFT GOODS ARE LUBRICATED WITH WATER BASED LUBE OIL



PRESSURE TESTING

- IAW API 16A
- TESTING UNIT

TEST GAUGES & PRESSURE RECORDER CALIBRATED

SHELL TEST

REPAIR CASE T.P: 1 TIMES RATING PRESSURE

REMANUFACTURE CASE T.P: 1.5 TIMES RATING PRESSURE

HYD.OPERATOR TEST

T.P: 1 TIMES OPERATOR RATING PRESSURE

WELL BORE TEST

LOW T.P: 200-300 PSI

HIGH T.P: EQUAL TO EQUIP. RATING PRESSURE.



PAINTING

- TO FOLLOW CLIENT SPECIFICATION
- ORIGINAL OEM PAINT SPECIFICATION



REPORT DATA PACKAGE

- DETAIL OF WORKSCOPE
- COMPANY CERTIFICATE
- INSPECTION AND RECOMMENDATION
 - VISUAL/NDT /HARDNES /DIMENSIONAL REPORT
 - RECOMMENDATION
- > IN PROCESS RECORDS
 - PMI /WELDING /NDT/HARDNESS REPORT
 - PWHT CHART
- FINAL TEST REPORT
 - PRESSURE CHART
 - TEST RECORDS
- > CERTIFICATE OF CONFORMANCE
- PERSONNEL & EQUIPMENT CERTIFICATES



PRESERVATION & SHIPPING

- CHECK THE TRUE OF BOPs DATA
- ALL MACHINED SURFACES MUST BE PROTECTED
- STRING BORE AND OUT LETS MUST BE COVERED/PROTECTED
- CLIENT SHIPPING INSTRUCTION SHALL BE FOLLOWED



MIGAS CERTIFICATION

- APPROVED TEST PROCEDURE
- WITNESS SHELL, FUNCTION, WELLBORE TESTS
- APPROVED TEST RECORD & TEST CHART
- CERTIFICATE OF CONFORMANCE



JMS RESOURCES

- FACILITY AND EQUIPMENT
 - WORKSHOP BAY
 - LATHE ,VTL, HB MACHINE, ETC. WELDING EQUIPMENT
 - STRESS RELIEF FURNACE
 - INSPECTION TOOLS & EQUIPMENT
 OHC 15 TON
- TESTING EQUIPMENT
- HARD CHROME PLALTING
- SYSTEM AND ADMINISTRATION
 - QUALITY/HSE MANUALS
 - PROSEDURES / WORK INSTRUCTIONS / RECORDING FORMS
- PERSONNEL COMPETENCY
 - COMPETENT & HAVING MORE THAN 10 YEARS EXPERIENCE INREPAIRING & REMANUFACTURING OF DRILLING EQUIPMENT.



FACILITY AND EQUIPMENT



VTL MACHINE



WELD.MACH.



HB MACHINE



FURNACE & TEMP. RECORDER



LATHE MACH.



TORQUING EQUIP.



INSPECTION TOOLS & TEST EQUIPMENT



OD Micrometers



Hardness Tester MPI Equip.



Pressure Testing Unit



MANUAL & PROCEDURES QUALITY & HSE

MANUALS

- API SPEC. Q1- FOR QUALITY
- BP MIGAS REQ. FOR HSE

PROCEDURES

WORK INSTRUCTIONS

FORMS



TECHNICAL KEY PERSONELS

AGUS ISMAIL

MORE THAN 15 YEARS EXPERIENCE IN WELDING / REPAIR & INSPECTION OF BOPs, VALVES,

DONATUS BASKORO

MORE THAN 15 YEARS EXPERIENCE IN WELDING / REPAIR & INSPECTION OF BOPS, VALVES

MASRI

MORE THAN 12 YEARS EXPERIENCE IN DISASSEMBLY/ ASSEMBLY AND TEST OF BOPs & VALVES

AGUS RIFANI

MORE THAN 12 YEARS EXPERIENCE IN MAITENANCE AND TESTING OF VALVES & BOPS



SKT MIGAS









