



CHANGE PROPOSAL

Proposal No.: SS -016

LOCATION (Name): HORIZON		Date: 3/9/2006	
CHANGE TITLE: 18-3/4" Annular stripper packer		Submitted By: Mark Hay/Ray Bement	
REASON FOR CHANGE (CHECK ONE)			
<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Corrective Action	<input type="checkbox"/> Preventative Action	<input type="checkbox"/> Routine Observation
		Identification No. (If Applicable)	
CHANGE TYPE (CHECK ONE)			
<input type="checkbox"/> Organization	<input type="checkbox"/> Policy/Procedure	<input type="checkbox"/> Change to Regulation	<input type="checkbox"/> MODU Design
<input type="checkbox"/> Documented Work Practices	<input checked="" type="checkbox"/> MODU Operating Criteria	<input type="checkbox"/> Safety Systems/Critical Ops. Equip.	
SECTION A: Proposal Description, to be completed by Originator – additional details to be attached if necessary.			
Department: Sub Sea		Name: Mark Hay	
		Date: 3/9/06	
Present Condition (What is the Problem: BP requests to install an 18-3/4" annular stripper packer to enable 6-5/8 drill pipe to be stripped with the annular closed. The pressure limit for the annular is 5000 psi as opposed to the 10000psi of the regular packer. This is to be installed in the lower annular only to allow for using the upper annular to accomplish a 10000 psi test.			
Proposal Reasons / Benefits (Expected Impact): See above, this enables one to strip pipe during a well control operation.			
Required Resources, Materials, and Labor: Cameron 18-3/4" annular stripper packer. To be paid for by BP, approx \$46,000		<input type="checkbox"/> Major > \$250,000 <input type="checkbox"/> Moderate > \$100,000 <input checked="" type="checkbox"/> Minor No effect	
Department Supervisor: Jimmy Harrell		Date: 3/9/06	
SECTION B: Risk Factors (Brainstorming)			
Does the Change require a Risk Assessment?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change impact regulatory requirements?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change affect Lightship or Center of Gravity (calculations)?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change require a modification of installation drawings?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change require Regulatory/Class approval?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change require vendor involvement?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change require acceptance testing upon completion?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change affect the spares inventory?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the change alter Environmental risk?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change affect Safety Systems?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change require a new or different part or material?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Does the Change require new/revised software?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change require design calculations?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change require engineering approval?	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Does the Change alter operating procedures?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Risk Factors Findings: This would require one additional BOP test function at the lower, 5k pressure.			
SECTION C: Documentation			
Drawing No:		Drawing Title:	
Other Documentation Required: See the Cameron information sheet for the annular, number 04-001, attached.			
Formal Risk Assessment Recorded (attach if necessary):		<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Safety Case Revisions Required (if applicable)		<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Verification Scheme/Safety Critical Elements Revisions Required?		<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N

Rev. 1

Sheet 1

Exhibit No. **4313**
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TRN-INV-01262592



CHANGE PROPOSAL

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SECTION D: Weight Changes, to be completed by Marine Responsible Person

Is there a weight change? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N			
Weight Changes: +/- Long Tons	VCG:	LCG:	TCG:

SECTION E: Welding Procedures, to be completed by the Structural Responsible Person

WELDING Procedure Required? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	WPS No./Ref.:
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SECTION F: Approvals

	NAME	SIGNATURE	DATE
Technical Manager	<i>[Signature]</i>	<i>[Signature]</i>	
Rig Manager	<i>[Signature]</i>	<i>[Signature]</i>	13-1-2006
Operations Manager	<i>[Signature]</i>	<i>[Signature]</i>	03/11/06
Facility Manager	Jimmy Harrell	<i>[Signature]</i>	9 March 2006

SECTION G: Agency Review Approval

Regulatory Agency Approval Required? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
Agency:	Contact:
Date of Agency Submittal:	Date of Agency Approval:

SECTION H: Technical Support, to be completed if Engineering Support is required.

Technical Support Required? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Name of Engineer Assigned? Tel. No.:

SECTION I: AFE

AFE Amount: \$46,000	AFE No.:
Local Tracking No.:	BSD:
Date of Completion:	Final Total Cost:

SECTION J: Close Out

	NAME	SIGNATURE	DATE
Proposal Work Fully Completed.			
Drawings Revised.			
Drawings Agency Approved.			
Equipment Documentation Package Rec'd			
Equipment Documentation package Agency Approved.			
Proposal Closed Out			
Rig Manager:		Date:	



CHANGE PROPOSAL

Additional Information (list applicable section and information): n/a

IT IS STRONGLY RECOMMENDED BY NAR-TKS THAT
THE LOWER ANNULAR FUNCTION ON ALL BOP PANELS BE
LABELLED TO INDICATE THAT THE MAXIMUM
WELLBORE WORKING PRESSURE IS RESTRICTED TO
5000 PSI.

A handwritten signature in black ink, appearing to be 'J. B. Smith' or similar, located below the handwritten text.

Additional Information (list applicable section and information): n/a

SS-016

Cameron Information Sheet

04-001

Subject: 18-3/4" Annular Stripper Packer for the Cameron 18-3/4"-10,000 psi Annular BOP

Purpose: To provide information on the availability and capability of an 18-3/4" stripper packer for the Cameron 18-3/4"-10,000 psi type D/DL Annular BOP.

Details: The 18-3/4" stripper packer P/N 2164645-01 is designed to permit stripping of a 6-5/8" drill pipe and tool joint through the Cameron 18-3/4"-10,000 psi annular BOP. To accomplish the stripping function, the packer metal inserts tips have been cut back to allow the drill pipe to pass through the closed packer without contacting the metal inserts. This special packer is not rated for 10,000 psi service on any size drill pipe because the tips of the anti-extrusion inserts have been cut back.

Pressure testing of this packing element subassembly is limited to 5000 psi on 5" and 6-5/8" drill pipe mandrels.

Because this is a special service packing element, it has not been tested in accordance with API 16A 2nd Edition requirements. A special abbreviated testing protocol was utilized to qualify this stripper packer as follows:

Pipe Size	Closures	Pressure Tests	Wellbore Pressure	Operating Pressure
6-5/8"	72	10	5000 psi	1500 psi
5"	71	10	5000 psi	1500 psi
3-1/2"	35	5	3500 psi	1500 psi

The test protocol called for a 3 minute pressure hold every 7th closure. The packing element subassembly successfully completed the above testing without leakage. The photograph below shows the condition of the packer after completing the testing.



The 18-3/4"-10M Stripper Packer
P/N 2164645-01
after completion of initial testing.



**CAMERON
ELASTOMER TECHNOLOGY**

29501 Katy Freeway, Katy TX 77494, Telephone 281-391-4600, Fax 281-391-4640

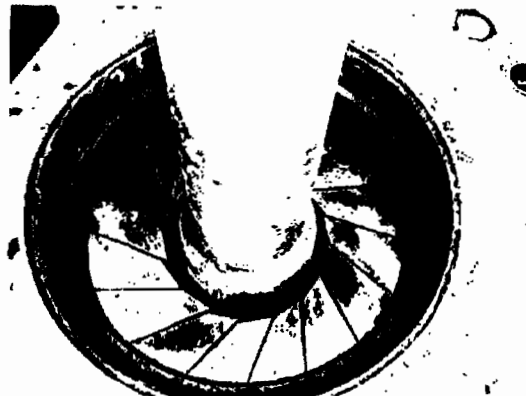
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Cameron Information Sheet

04-001



Closed on a 3-1/2" pipe mandrel –
1,500psi operating pressure



Closed on an 8-1/4" tool joint

CAUTION: Any field testing of this element should be limited to 5000 psi wellbore pressure on 5" or 6-5/8" drill pipe. Open hole testing should not be attempted.

For additional information contact your local Cameron representative or nearest CAMSERV™ facility.

To find your nearest Cameron representative or CAMSERV facility, use Cameron Internet service:
Internet – www.camerondiv.com

Select - Contacts & Locations

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INSTALL ONLY IN LOWER POSITION
LIMITS PRESSURE TEST TO 5K FROM 10K
ALLOWS STRIPPING 6 5/8 THROUGH IT CLOSED



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ELASTOMER TECHNOLOGY**

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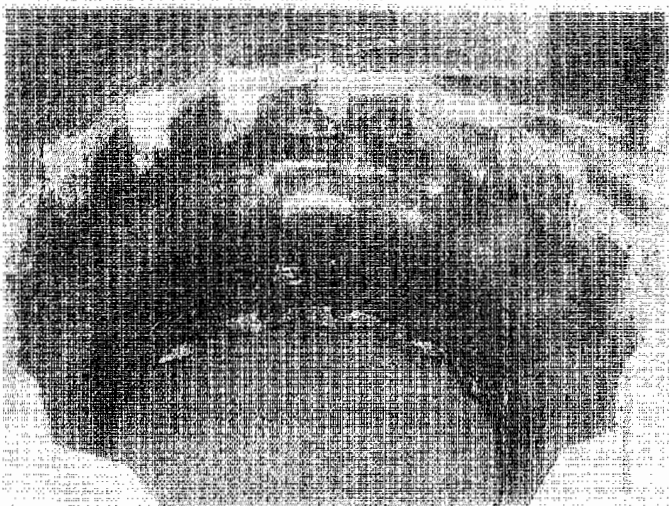
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P/N 2164645-01
after completion of initial testing.



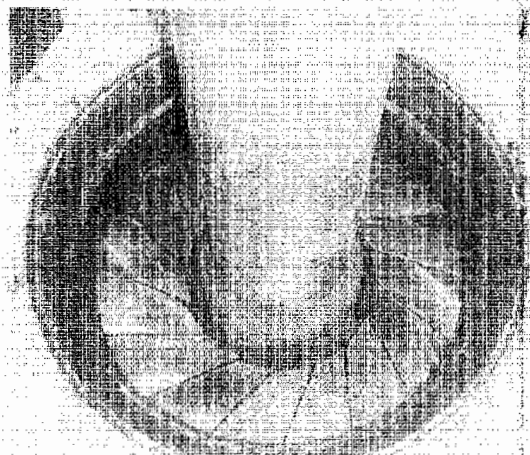
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Closed on a 3-1/2" pipe master -
1,500psi operating pressure



Closed on an 8 1/4" tool joint

CAUTION: Any field testing of this element should be limited to 5000 psi wellbore pressure on 5" or 6-5/8" drill pipe. Open hole testing should not be attempted.

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