Worldwide Court Reporters, Inc.

3299 Exhibit No.

1 0/ 80

Page:

Deepwater Horizon

Date: 20 May 2010 Time: 8:52 AM Page: 1 of 80 RMS II - Equipment History Equipment: BOP Control Pod End Date: 20 May 2010 Start Date: 20 Jan 2001 Tag: WCS BOPP 002 Fransocean

	Include Machinery Report: Yes Include Child Tags:	Historical Tags: Verification Only: No
Report Options	Job Type(s)	PM Repair Not Specified Machinery Report Crane Report
	Craft(s)	* All Crafts
	Rig(s)	Deepwater Horizon

Rig: Deepwater Horizon

Wilder Country Mark III Country Countr				
Completion Date: 01 November 2001				
Job Description	Job Number	Craft	Job Type	Total Hours
*90 DavíRig Movel -Inspect Wellbore Tran	1550038001779	Electronics	PM	0.00

TRN-INV-00034227

Work Log: EMPAC WORK ORDER NO: 8701-001589-000

Jul 09 2009

DATESŤART:09/24/2001 00:45:27,000000 DATECOMPLETE:11/01/2001 23:59:59.000000

No Work Reported in EMPAC

₹ Electronics 1550038001780 *90 Day[Rigmove]-Inspect Interconnect C

Work Log: EMPAC WORK ORDER NO : 8701-001590-000 DATESTART : 09/24/2001 00:45.42.000000 DATECOMPLETE : 11/01/2001 23:59:59.000000

No Work Reported in EMPAC

10 November 2001

Completion Date:

Total Hours 0.00 0.00 AFTER INSPECTION OF MALE STINGER, PACKER SEALS AND FEMALE RECEPTACLE LIGHTLY COAT WITH Job Type ₹ ₹ Well Control Well Control Craft EMPAC WORK ORDER NO : 8701-001752-000 1550038002038 1550038002037 Job Number INSPECT MALE & FEMALE ASSEMBLIE *90 Day[Rig Move] Inspect Cameron Spm V *90 Day [Rig Move]-Inspect Male And Fema 11/10/2001 14:03:51 LUBRIPLATE Work Log: Job Description

CHANGED ALL 1" VALVES ON POD TO UPGRADED TYPE, USE UPGRADED REPAIR KIT FOR 3/4" VALVES ON POD REV-D01. ACCUMULATOR CHARGE VALVE MAKE SURE SEAL PLATES MATERIAL IS STELITE THIS IS EMPAC WORK ORDER NO : 8701-001753-000 CAMERON SLIDE VALVES 11/10/2001 13:58:38 Work Log: Jul 09 2009

AND UPGRADE FROM CAMERON.EMPAC WORK ORDER NO : 8701-001753-000 INSPECT CAMERON SLIDE VALVES 11/10/2001 16:16:27

ALL 1" VALVES BEEN CHANGED OUT TO THE UPGRADED TYPE, AND USE REV-DO1 FOR 3/4" VALVES ON PODS. ON THE ACCUMULATOR CHARGE VALVES MAKE SURE SEAL PLATE MATERIAL IS STELITE

₽ Well Control 1550038002039 *90 Day[Rig Move]Inspect And Test Press

JPGRADE REPAIR KIT FROM CAMERON

Jul 09 2009 Work Log: EMPAC WORK ORDER NO : 8701-001754-000 INSPECT & PRESSURE SEM

11/10/2001 13:48:49

USE DC-200 WHEN CONDUTING PRESSURE TEST ON SEALS (SEM) PRESSURE TEST TO 5000 PSI ON SEALS

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Page

Deepwater Horizon

20 May: 2010

January 2002	Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8701-001755-000 POD FILTERS 11/10/2001 13:44:54 INGS INSIDE HOUSING INSPECT O-RINGS AND O-RINGS INSIDE HOUSING	NO : 8701-001755	000-			
100 Number Craft	Completion Date: 0	13 January 2002					
tigmove]-Insulation Test On Flan 1550038001776 Electronics Work Log: EMPAC WORK ORDER NO : 8701-001586-000 CAN NOT PERFORM 1115/2001 10.33:55 CAN NOT PERFORM 1550038001777 Electronics Work Log: EMPAC WORK ORDER NO : 8701-001587-000 CAN NOT PERFORM 11/15/2001 AN NOT PERFORM 10.31:07 Electronics Work Log: EMPAC WORK ORDER NO : 8701-001588-000 AT NOT PERFORM AT RIG MONTO PERFORM Lig Move] -Inspect Connections O 1550038001778 Electronics Work Log: EMPAC WORK ORDER NO : 8701-001588-000 AN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MONTO PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MONTO PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MONTO PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MONTO PERFORM SPAC WORK ORDER NO : 8702-000882-000 Rig Move] -Inspect Cameron Spm V 1550038005436 Well Control OUZ/12/07:57 DONE ON Z/15/02 DONE ON Z/15/02 DONE ON Z/15/02 Rig Move]-Inspect Male And Fema 1550038005439 Well Control	Job Description		Job Number	Craft	Job Type	Total Hours	
Lig Move] Inspect Solenoid Conne 1550038001777 Electronics Work Log: EMPAC WORK ORDER NO : 8701-001587-000 CAN NOT PERFORM 11/15/2001 10:31:07 CAN NOT PERFORM DUE TO EQUIP. BEING USED. PERFORM AT RIG MOVER LOG: 1550038001778 Electronics Work Log: EMPAC WORK ORDER NO : 8701-001588-000 CAN NOT PERFORM 11/15/2001 10:42:01 CAN NOT PERFORM Due TO EQUIP BEING USED. PERFORM AT RIG MOVER Apple Number Craft Z5 Fcbruary 2002 Job Number Craft Rig Movel Inspect Cameron Spm V 1550038005436 Well Control Work Log: EMPAC WORK ORDER NO : 8702-000882-000 02/24/2002 17:07:57 DONE ON 2/15/02 17:07:57 DONE ON 2/15/02 Rig Move] Inspect Male And Fema 1550038005439 Well Control	*90 Day[Rigmo Jul 09 2009	we]-Insulation Test On Flan Work Log: EMPAC WORK ORDER CAN NOT PERFORM 11/15/2001 10:33:55 CAN NOT PERFORM DUE TO EQUIF	1550038001776 NO: 8701-001586 P. BEING USED. PE	Electronics 1-000 RFORM AT RIG	PM MOVE.	0.50	
Work Log: EMPAC WORK ORDER NO : 8701-001587-000 CAN NOT PERFORM 11/15/2001 10:31:07 CAN NOT PERFORM 10:31:07 CAN NOT PERFORM DUE TO EQUIP. BEING USED. PERFORM AT RIG MOVEY Log: EMPAC WORK ORDER NO : 8701-001588-000 Work Log: EMPAC WORK ORDER NO : 8701-001588-000 CAN NOT PERFORM 11/15/2001 10:42:01 CAN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MOVEY LOGO A lob Number CAN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MOVEY LOGO A lob Number CAN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MOVEY LOGO A lob Number CAN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MOVEY LOGO A lob Number CAN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MOVEY LOGO A lob Number CAN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MOVEY LOGO A lob Number CAN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MOVEY LOGO A lob Number CAN NOT PERFORM A lob Number A lob Number CAN NOT PERFORM A lob Number A lob Number CAN NOT PERFORM A lob Number A lob Number CAN NOT PERFORM A lob Number A lob Number CAN NOT PERFORM	*90 Day[Rig Mc		1550038001777	Electronics	Md	0.50	
tig Move] -Inspect Connections O 1550038001778 Electronics Vork Log: EMPAC WORK ORDER NO : 8701-001588-000 CAN NOT PERFORM 11/15/2001 10:42:01 CAN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MOVAN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MOVAN NOT PERFORM DUE TO EQUIP BEING USED. PERFORM AT RIG MOVAN LOG: Rig Move] -Inspect Cameron Spm V 1550038005436 Well Control NOT Control NOT STOLE VALVES ON POD 02/24/2002 17:07:57 BONE ON 2/15/02 DONE ON 2/15/02 1550038005439 Well Control NOT Control NOT	Jul 09 2009	Work Log: EMPAC WORK ORDER CAN NOT PERFORM 11/15/2001 10:31:07 CAN NOT PERFORM DUE TO EQUIF	NO : 8701-001587 9. BEING USED. PE	000 RFORM AT RIG	MOVE		
Work Log: EMPAC WORK ORDER NO : 8701-001588-000 CAN NOT PERFORM 11/15/2001 10:42:01 CAN NOT PERFORM Job Number Craft Rig Move] -Inspect Cameron Spm V 1550038005436 Well Control Work Log: EMPAC WORK ORDER NO : 8702-000882-000 INSPECT SLIDE VALVES ON POD 02/24/2002 17:07:57 DONE ON 2/15/02 DONE ON 2/15/02 1550038005439 Well Control Rig Move]-Inspect Male And Fema 1550038005439 Well Control	*90 Day[Rig Mo		1550038001778	Electronics	Z.	0.50	
25 Fcbruary 2002 lion Job Number Craft lig Move] -Inspect Cameron Spm V 1550038005436 Well Control Work Log: EMPAC WORK ORDER NO : 8702-000882-000 INSPECT SLIDE VALVES ON POD 02/24/2002 17:07:57 DONE ON 2/15/02 Rig Move]-Inspect Male And Fema 1550038005439 Well Control	Jul 09 2009	Work Log: EMPAC WORK ORDER CAN NOT PERFORM 11/15/2001 10:42:01 CAN NOT PERFORM DUE TO EQUIF	NO : 8701-00158E BEING USED. PEI	FORM AT RIG	NOVE.		
Rig Move] -Inspect Cameron Spm V 1550038005436 Well Control Work Log: EMPAC WORK ORDER NO: 8702-000882-000 INSPECT SLIDE VALVES ON POD 02/24/2002 17:07:57 DONE ON 2/15/02 Rig Move]-Inspect Male And Fema 1550038005439 Well Control	Completion Date: 2	25 February 2002					
Rig Move] -Inspect Cameron Spm V 1550038005436 Well Control Work Log: EMPAC WORK ORDER NO : 8702-000882-000 INSPECT SLIDE VALVES ON POD 02/24/2002 17:07:57 DONE ON 2/15/02 DONE ON 2/15/02 1550038005439 Well Control [Rig Move]-Inspect Male And Fema 1550038005439 Well Control	Job Description		Job Number	Craft	Job Type	Total Hours	
Male And Fema 1550038005439 Well Control Deepwater Horizon	*90 Day[Rig Mo Jul 09 2009		1550038005436 NO: 8702-000882	Well Control	Ā	0.00	
Deepwater Horizon	*90 Day [Rig M	love]-Inspect Male And Fema	1550038005439	Well Control	PM	0.00	
			Deepwater Hori:	zon		Puge:	.99

0.00

Ā

1550038002040 Well Control

*90 Day[Rig Move] Change Pods Filter Ele

	PM			Job Type	PM			Job Type
000-9	Well Control	9-000		Craft	Well Control	5-000 : 8702-000833-000		Craft
: NO : 8702-000886	1550038005442	.NO : 8702-000888		Job Number	1550038005291	NO: 8702-000833 WORK ORDER NO		Job Number
Work Log: EMPAC WORK ORDER NO: 8702-000885-000 INSPECT MALE &FEMALE RECP: 02/24/2002 17:06:49 INSPECT AND LIGHT COAT OF LUBRIPLATE	*90 Day[Rig Move] Change Pods Filter Ele	Work Log: EMPAC WORK ORDER NO : 8702-000888-000 POD FILTERS 02/24/2002 16:56:03 CHANGE BLUE & YELLOW 2/15/02	002		*90 Day[Rig Move]Inspect And Test Press	Work Log: EMPAC WORK ORDER NO : 8702-000833-000 PRESSURE TEST SEM 03/04/2002 17:48:39 DONE BOTH SEMS 2-22-02EMPAC WORK ORDER NO : 8702-000833-000 Mass Closing 03/05/2002 10:08:11 ALL RIG MOVE ITEMS PERFORMED FEB. 02	002	
Work INSP 02/24 INSP	Move] Chai	Work POD 02/24 CHAI	05 March 2002		Move]Insp	Work PRES 03/04 DON Mass 03/05 ALL F	06 March 2002	
Jul 09 2009	*90 Day[Rig	Jul 09 2009	Completion Date:	Job Description	*90 Day[Rig	Jul 09 2009	Completion Date:	Job Description

Total Hours

0.00

Job Description		Job Number Craft	Craft	Jub Type	Total Hours
*90 Day[Durin	*90 Day[During Drilling Operations]Rebu	1550038005963 Well Control	Well Control	PM	00.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8702-001238-000 YELLOW POD 03/04/2002 12:06:00	RDER NO : 8702-00123	8-000		
	DONE				

Completion Date: 19 April 2002

Total Hours	
Job Type	
Craft	
Job Number	
Job Description	

20 May 2010

Deepwater Horizon

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TRN-INV-00034230

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Bad Card And Cabl	Cable Work Log: EMPAC WORK ORDER NO YELLOW POD PBOF CABLE&PC CARD 04/16/2002 20:16:38 CAMERON ITEMS	1550038005487 Wel R NO : 8702-000934-000 ARD	Well Control 4-000	Corrective Maintenance	0.00
	2 EA. DIGITAL OUTPUT CARDS (PIGGY BACKS) 1 EA. CABLE, PBOF SEM REPAIRS MADE TO YELLOW POD DURING RIG MOVE	IGGY BACKS) DURING RIG MOVE	30-2507 00-400283		
Completion Date:	18 May 2002				
Job Description		Job Number	Craft	Job Type	Total Hours
*90 Day[Rigmove]-	ve]-Insulation Test On Flan	1550038007203	Electronics	PM	0.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8702-002123-000 Can not due at this time 05/01/2002 03:06:59 Can't due at this time BOP is down Gene	R NO : 8702-002123	9-000		
*90 Day[Rig Move]	ove] -Inspect Connections O	1550038007208	Electronics	PM	0.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8702-002128-000 Can not due at this time 05/01/2002 03:06:35 Can't due at this time BOP is down Gene	R NO : 8702-002128	3-000		
*90 Day[Rig Move]	ove] Inspect Solenoid Conne	1550038007209	Electronics	PM	0.00
Jul 09 2009		R NO : 8702-002129	000-€		
*90 Day[Rigm	*90 Day[Rigmove]-Inspect Interconnect C	1550038008168	Electronics	Md	0.00

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Page.

*90 Day[Rig	*90 Day[Rig Move] Inspect Wellbore Tran	1550038008292	Electronics	PM	00:00
900 كامار	Work Log: EMPAC WORK ORDER NO: 8702-002846-000 Can not due at this time 05/01/2002 03:04:16 Can't due at this time BOP is down Gene	DER NO : 8702-00284	9-000		
Completion Date:	07 July 2002				
Job Description		Job Number	Craft	Job Type	Total Hours
Rig Move - 1 Jul 09 2009	Rig Move - Inspect Solenoid Connectors - 15 ul 09 2009 Work Log: EMPAC WORK ORDER NC SOLENOIDS 07/03/2002 15:08:42 TAKEN CARE OF BY CAMERON REPS	ionnectors - 1550038010275 Elec EMPAC WORK ORDER NO : 8702-004114-000 5:08:42 E OF BY CAMERON REPS	Electronics 4-000	PM	0.00
Rig Move - Inspect V Jul 09 2009 W	Velibore T Vork Log: VELL BORE 7/03/2002 1 AKEN CAR	ransmitters 1550038010294 Elec EMPAC WORK ORDER NO : 8702-004133-000 5:07:14 E OF BY CAMERON REPS	Electronics	Ā	0.00
Completion Date:	14 July 2002				
Job Description		Job Number	Craft	Job Type	Total Hours
Rig Move -	Rig Move - Insulation Test On Flanged Co	1550038010156	Well Control	PM	1.00

Work Log: EMPAC WORK ORDER NO : 8702-002732-000 Can not due at this time 05/01/2002 03:04:56 Can't due at this time BOP is down Gene

Jul 09 2009

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	-		0	
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of so

Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8702-004097-000	SEE NOTES	07/13/2002 14:24:48	YELLOW MUX CABLE WAS CHANGED OUT DUE TO BAD MEG, 50 MEG. INSTALLED NEW MUX CABLE	6/25/02. ON YELLOW MUX REEL. CAMERON ET DID INSTALATION OF WIRES A J BOX ON YELLOW MUX	REEL
•	Jul 09 2009 Wo	SEI	/20	YEI	6/2	RE

Completion Date: 15 August 2002

Job Description		Job Number	Craft	Job Type	Total Hours
Rental Of Power Spooler	er Spooler For Mux Cable	1550038010108	Well Control	Ā	24.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8702-004050-000 POWERED SPOOLER 06/23/2002 15:07:27 POWERED SPOOLER & EQUIPMENT ORDERED FROM AKER MARINE PH#(985)580-4454	EMPAC WORK ORDER NO : 8702-004050-000 SPOOLER 5:07:27 SPOOLER & EQUIPMENT ORDERED FROM AKE	0-000 M AKER MARINE	PH#(985)580-4454	
	POWERED SPOOLER 3 DAYS @ \$1500 PER DAY EMPTY SPOOL 3 DAYS @ \$25 PER DAY LOADING \$870 UNLOADING \$870	<u>0</u> \$1500 PER DAY ER DAY			
Send Pilot Filters In For Y	ers In For Yellow Pod Tha	1550038010781	Well Control	PM	0.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8702 DATESTART : 07/18/2002 12:34:45.000000 DATECOMPLETE : 08/15/2002 23:59:59.000000 No Work Reported in EMPAC	EMPAC WORK ORDER NO: 8702-004453-000 T: 07/18/2002 12:34:45.000000 LETE: 08/15/2002 23:59:59.000000 vorted in EMPAC	3-000		
Rig Move -Insp	Rig Move -Inspect And Test Pressure Vess	1550038011551	Well Control	PM	2.00
Jul 09 2009	Work Log: EMPAC WORK ORDER N RIG MOVE -INSPECT AND TEST PRE 08/08/2002 00:04:58 YELLOW POD SENT TO TOWN.	EMPAC WORK ORDER NO : 8702-005123-000 NSPECT AND TEST PRE 0:04:58 D SENT TO TOWN.	3-000		

Completion Date: 16 August 2002

Job Description	Job Number Craft	Craft	Job Type	Total Hours
Rig Move - Change Pods Filter Elements	1550038011685	Well Control	P	2.00

	POD FILTERS YELLOW POD 08/07/2002 22:13:40 SENT YELLOW POD TO TOWN FOR REPAIRS.	OR REPAIRS.			
Rig Move - Inspe Jul 09 2009	ct Cameron Work Log: YELLOW PC 08/07/2002 2 YELLOW PC	Spm Valves 1550038011691 Well EMPAC WORK ORDER NO : 8702-005243-000 30 3D 11:04:00 3D WAS SENT TO TOWN TO BE REWORKED.	Well Control	PM	2.00
Rig Move Jul 09 2009	Rig Move - Inspect Interconnect Cable - 1550038011696 Well Work Log: EMPAC WORK ORDER NO 8702-005248-000 RIG MOVE - INSPECT INTERCONNEC 08/08/2002 01:41:14 YELLOW POD SENT IN TO TOWN FOR MODIFICATIONS.	1550038011696 ER NO : 8702-005248 NEC I FOR MODIFICATION	Well Control	PM	2.00
Rig Move Jul 09 2009	Rig Move - Inspect Male And Female Pod A 1550038011698 Wel ul 09 2009 Work Log: EMPAC WORK ORDER NO : 8702-005250-000 POD IN FOR REPAIRS 08/07/2002 20:48:00 POD IN FOR REPAIRS POD IN FOR REPAIRS 26 Number 70002	1550038011698 ER NO : 8702-005250	Well Control	Δd	1.00
Job Description	i	Job Number	Craft	Job Type	Total Hours
Rig Move - During Jul 09 2009	- During Drilling Operations Re 1550038012386 Wel Work Log: EMPAC WORK ORDER NO : 8702-005671-000 DELETE THIS DUPLICATE 09/25/2002 16:07:45 DELETE THIS DUPLICATE	1550038012386 ER NO : 8702-005671	Well Control	PM	48.00

Ā Well Control 1550038012089 Slings For Shipping Pod Back To Rig From

Deepwater Horizon

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Page:

Total Hours 4.00

Job Type

Craft

Job Number

Job Description

Jul 09 2009

Work Log: EMPAC WORK ORDER NO: 8702-005527-000
SEE NOTES
08/21/2002 13:19:51
SLINGS FOR SHIPPING POD BACK TO RIG FROM CAMERON CONTROLS NEED TO SHIP SLINGS TO CAMERON CONTROLS IN HOUSTON CONTROLS IN HOUSTON CONTROLS URGENT.

STOCK NO# 417042 NEED TWO SETS OF SLINGS AND CERTS:

ATTN. BRAD CODY CAMERON CONTROLS 6650 BINGLE ROAD HOUSTON TX, 77092EMPAC WORK ORDER NO : 8702-005527-000 UPDATE

10/14/2002 15:28:53 SLINGS ARE IN USE IN HOUSTON AT CAMERON CONTROLS WILL BE SENT TO RIG WITH YELLOW POD.

25 October 2002 Completion Date:

Job Description		Job Number	Craft	Job Type	Total Hours
Yellow Pod Mods To	To Install High Shock FI	1550038008657	Well Control	Other Maintenance	00.0
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8702-003134-000 YEI POD HIGH SHOCK FI OWMETER	NO : 8702-00313.	4-000		
	05/08/2002 12:35:05	-			
	INSTALLATION OF HIGH SHOCK FLOV ROCK CATCHER AND	OWMETER, D			
	COMPLETE TESTING OF ALL SYSTEMS ON YELLOW POD	OF ALL SYSTEM	IS ON YELLOW P	00	
	AT CAMERON CONTROLS HOUSTON TEXAS, CERTIFICATION OF ALL APPLICABLE PARTS ARE ALSO INCLUDED IN THIS QUOTE.	N TEXAS, CERTIF	FICATION OF ALL	APPLICABLE PARTS ARE	ALSO
	COST \$54,585.10				
	CONTACT BRAD CODY CAMERON CONTROLS HOUSTON, TX.	N CONTROLS H	OUSTON, TX.		
	(713)- b83-4327 683-4600 EMPAC	EMPAC WORK ORDER NO : 8702-003134-000	4O : 8702-003134	000-	
	06/10/2002 17:48:54 NUMBER 1045				

03 November 2002 Completion Date:

Job Description	no no	Job Number	Craft	Job Type	Total Hours
Rig Move -Inspect Au Jul 09 2009 W	-Inspect And Test Pressure Vess 1550038015179 Well Work Log: EMPAC WORK ORDER NO : 8702-007508-000 SEE NOTES 11/16/2002 16:05:48 DONE ON 11-3-02 GOOD TEST	1550038015179 R NO : 8702-007508	Well Control	PM	3.00
Completion Date:	04 November 2002				
Job Description	un .	Job Number	Craft	Job Type	Total Hours
Rig Move -	Rig Move - Inspect Wellbore Transmitters	1550038014670	Electronics	PM	3.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8702-007134-000 COMPLETION NOTES 11/04/2002 00:12:27 NAME: GENE / JAY STEPS COMPLETED: PREFORMED ALL STEPS WITH CAMERON AND REPLACED O-RING SEALS BUT THERE WAS NO DAMAGE NOTED. WAS NO DAMAGE NOTED. STEPS NOT COMPLETED: NONE EQUIPMENT OUT OF SERVICE (HOURS:) (DOWNTIME:) 2 HOURS /0 COMMENTS: PART OF THE SUBSEA CHECK LIST TO BE DONE EVERY TIME STACK IS UP DURING RIG MOVE.	R NO: 8702-00713 D ALL STEPS WITH OURS:) (DOWNTIME EA CHECK LIST TO	4-000 CAMERON AND E:) 2 HOURS /0 BE DONE EVER	REPLACED O-RING SEALS BU ⁻ Y TIME STACK IS UP DURING R	THERE
Rig Move - Inspect C	Inspect Connections On Interc	1550038014673	Electronics	PM	3.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8702-007137-000 COMPLETION NOTES 11/04/2002 00:13:50 NAME: GENE / JAY STEPS COMPLETED: PREFORMED ALL STEPS WITH CAMERON AND REPLACED O-RING SEALS BUT THERE WAS NO DAMAGE NOTED. STEPS NOT COMPLETED: NONE EQUIPMENT OUT OF SERVICE (HOURS:) (DOWNTIME:) 2 HOURS /0 COMMENTS: PART OF THE SUBSEA CHECK LIST TO BE DONE EVERY TIME STACK IS UP DURING RIG MOVE.	R NO: 8702-00713 D ALL STEPS WITH DURS:) (DOWNTIME EA CHECK LIST TO.	7-000 CAMERON AND E.) 2 HOURS (0 BE DONE EVER	REPLACED O-RING SEALS BU'	THERE G
Rig Move	Rig Move - Insulation Test On Flanged Co	1550038014675	Electronics	PM	3.00

THERE	4.00	3.00	2.00
COMPLETION NOTES 11/04/2002 00:13:11 NAME: GENE / JAY STEPS COMPLETED: PREFORMED ALL STEPS WITH CAMERON AND REPLACED O-RING SEALS BUT THERE WAS NO DAMAGE NOTED. STEPS NOT COMPLETED: NONE EQUIPMENT OUT OF SERVICE (HOURS:) (DOWNTIME:) 2 HOURS /0 COMMENTS: PART OF THE SUBSEA CHECK LIST TO BE DONE EVERY TIME STACK IS UP DURING RIG MOVE.	Rig Move - Inspect Male And Female Pod A 1550038015178 Well Control PM Jul 09 2009 Work Log: EMPAC WORK ORDER NO : 8702-007507-000 SEE NOTES 11/16/2002 16:07:44 CHANGE ALL DAMAGED STINGER SEALS, AND LIGHTLY LUB FEMALE RECEPTICALS 11-4-02	Rig Move - Inspect Interconnect Cable - 1550038015180 Well Control PM Jul 09 2009 Work Log: EMPAC WORK ORDER NO: 8702-007509-000 SEE NOTES 11/16/2002 16:03:46 MEG ALL CABLES GOOD TEST CABLES IN GOOD CONDITION 11-3-02	Rig Move - Change Pods Filter Elements 1550038015182 Well Control PM Jul 09 2009 Work Log: EMPAC WORK ORDER NO : 6702-007511-000 SEE NOTES 11/16/2002 16:00:21 PILOT FILTERS CHANGED 11-4-02

Work Log: EMPAC WORK ORDER NO: 8702-007139-000

Jul 09 2009

06 November 2002 Completion Date:

Job Number Craft Job Type Total Hours	1550038015181 Well Control PM 4.00	: 8702-007510-000 ROPER INSTALLATION
Job Description	Rig Move - Inspect Cameron Spm Valves 155	Jul 09 2009 Work Log: EMPAC WORK ORDER NO : 8702-007510-000 SEE NOTES 11/16/2002 16:01:57 CHECK ALL 1" VALVES E- CLIPS FOR PROPER INSTALLATION

Jecember 2002	Job Number Craft Job Type Total Hours
18 December 2002	
Completion Date:	Job Description

000000000417287

YELLOW POD PARTS 1 EA. HOSE 1/2' PILOT JUMPER

Total Hours

Job Type PM

Craft Well Control

Job Number 1550038014540

Rig Move Parts Used

Job Description Yellow Pod,

Jul 09 2009

22 November 2002

Completion Date:

Work Log: EMPAC WORK ORDER NO : 8702-007055-000 YELLOW POD PARTS 10/27/2002 10:06:10 CHARGE TO BOP MAINTENANCE PROJECT NO!!!!!

0.00

EMPAC WORK ORDER NO : 8702-006723-000

UNIT ORDERED

10/31/2002 07:41:49

JNIT TO BE ORDER AS PER J. KEETON.EMPAC WORK ORDER NO :8702-006723-000 CARD LOADED

10/09/2002 19:47:31 NOTE: THIS IS THE ONLY PART THAT SUBSEA WANTS. IGNORE PHORSUBS NOTE.

VENDOR: UE SYSYEM, INC CONTACT: HELEN A. CLINT PH#-800-223-1325

FAX-914-347-2181

RECOMMENDED BY, STEVE DONOHUE SUB SEA TECHNICAL SUPPORT HOUSTON FOR TROUBLE SHOOTING SOLENOID VALVES ON PODS FOR LEAKS

ITEM (1) UP9000 LRM ULTRAPROBE LONG RANGE MODULE KIT FOR \$ 5.995.00 NORMAL CRITICALITY

Delivery: 1 weeks ARO FOB: Elmsford NY

Signed by: Helen A. Clint

Warranty: One year parts/labor standard

Five years parts/labor upon completed registration

Terms: prepayment via t/t or credit card

JE Systems Accepts: Visa-MasterCard-American Express Manufactured in the USA, Weight: 22 lbs. (10 kg)

EMPAC #38269 EMPAC WORK ORDER NO: 8702-006723-000

CARD REQUESTED

09/25/2002 17:55:51

CARD REQUEST NUMBER 5883 EMPAC WORK ORDER NO : 8702-006723-000

NEED CARDS

NOTE: THIS IS THE ONLY PART THAT SUBSEA WANTS, IGNORE PHORSUBS NOTE. 09/24/2002 14:12:05

VENDOR: UE SYSYEM, INC CONTACT: HELEN A. CLINT

PH#-800-223-1325

FAX-914-347-2181

RECOMMENDED BY, STEVE DONOHUE SUB SEA TECHNICAL SUPPORT HOUSTON FOR TROUBLE SHOOTING SOLENOID VALVES ON PODS FOR LEAKS

ITEM (1) UP9000 LRM ULTRAPROBE LONG RANGE MODULE KIT FOR \$ 5.995.00 NORMAL CRITICALITY

Deepwater Horizon

Signed by: Helen A. Clint

FOB: Elmsford NY

Delivery: 1 weeks ARO

Warranty: One year parts/labor standard

Five years parts/labor upon completed registration

Manufactured in the USA, Weight: 22 lbs. (10 kg) Terms: prepayment via t/t or credit card

UE Systems Accepts: Visa-MasterCard-American Express

EMPAC WORK ORDER NO : 8702-006723-000 ULTRAPROBE SEE NOTES

09/24/2002 08:57:02

VENDOR: UE SYSYEM, INC

CONTACT: HELEN A. CLINT

PH#-800-223-1325 FAX-914-347-2181. RECOMMENDED BYE, STEVE DONOHUE SUB SEA TECHNICAL SUPPORT HOUSTON FOR TROUBLE SHOOTING SOLENOIN VALVES ON PODS FOR LEAKS

SEE ATTACHMENT FOR PRICE, FOR UP9000 LRM ULTRAPROBE LONG RANGE MODULE KIT FOR \$ 5.995.00

ULTRAPROBETM 9000 KT QUOTATION

ULTRAPROBE 9000 KT Complete Includes:

ultrasounds. *Stethoscope Module (contact type) for monitoring internally generated ultrasounds, *Extension Probe Kit to increase stethoscope contact range to 31 inches, "Warble Tone Generator, "Deluxe Industrial Headset (acoustic isolating type), "UltraTrendTM data transfer software, Battery re-charger (specify 110V or 220V), "Zero Haliburton aluminum carrying case, "MT4 Infrared Thermometer; "Comprehensive Instruction Manual and The ULTRAPROBE 9000 housing with Digital LCD Display and LED Backlight, *TRI-sonic Scanning Module for iocating airborne ultrasound, "Rubber Focusing Probe for narrowing reception field and for shielding ambient

08 January 2003 Completion Date: Total Hours 9. Job Type ₹ Well Control Craft 1550038006752 Job Number Phof Cable And Flowmeter Box Bolts Job Description

20 May 2010

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Deepwater Horizon

TRN-INV-00034240

CARD READY

03/23/2002 13:37:56

CABLE, PRESSURE- BALANCE- OIL- FILLED, 22 PIN X 90 DEG. BOTH ENDS X 5 FT. LG. P/N 2185879-22-05 1 EA. \$9,904.00 EA. NO STOCK CARD NO. SF# 00-21332

TSF # 00-21333 BOLTS, 1/4" X 2" LG. HIGH STRENGTH ALLOY W/SPECIAL COATING,

\$6.00 EA.

P/N 2185496-01

10 EA. \$6.00 EA. F/POD FLOWMETER BOX, BOP, NO STOCK CARD NO.

TSF # 00-21335

P/N 2185497-01

FOR POD FLOWMETER BOX, BOP. NO STOCK CARD NO. \$1.50 EA.

WASHER, 1/4" HIGH STRENGTH ALLOY W/SPECIAL COATING

P/N 2762098-32-25

TSF STK # 00-417388 ELEMENT, FILTER 25 MICRON, F/RIGID CONDUIT FILTER ON LMRP 4 EA. \$966.00 EA.

0

STOCK CARD NO.

- 0417388

THESE ARE CAMERON CONTROLS PART NOS. EMPAC WORK ORDER NO : 8702-001837-000 NEED STOCK CARDS

03/21/2002 07:52:19

IN NEED OF STOCK CARDS

CABLE, PRESSURE- BALANCE- OIL- FILLED, 22 PIN X 90 DEG. BOTH ENDS X 5 FT. LG. P/N 2185879-22-05 1 EA. \$9,904.00 EA.

P/N 2185496-01

NO STOCK CARD NO

BOLTS, 1/4" X 2" LG. HIGH STRENGTH ALLOY W/SPECIAL COATING,

10 EA

F/POD FLOWMETER BOX , BOP, NO STOCK CARD NO. \$6.00 EA.

WASHER, 1/4" HIGH STRENGTH ALLOY WISPECIAL COATING

10 EA. \$1.50 EA. FOR POD FLOWMETER BOX, BOP. NO STOCK CARD NO.

P/N 2185497-01

20 May: 2010

TDR038-028930

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BOP,
DOLIS, 14 AZ LG. RIGH STRENGTH ALLOT WASPECIAL COMING, 10 EA. \$6.00 EA. \$6.00 EA. \$6.00 EA. BOY, BOP, NO STOCK CARD NO. WASHER, 1/4" HIGH STRENGTH ALLOY W/SPECIAL COATING

Completion Date: 23 February 2003

Job Description	Job Number	Craft	Job Type	Total Hours
When Sitting Pod In Test Stand You Have	1550038015322	Well Control	PM	1.00

11/19/2002 21:37:13 LOAD CĂRD

PLEASE LOAD CARD
ON REQUEST ONLY
CRIT: NORMAL
EMPAC WORK ORDER NO : 8702-007662-000
SEE NOTES
11/16/2002 09:20:45
VENDOR: CROSBY
TRANSOCEAN STK# 00000000440915
DESP: 25 TON SWIVEL EYE TO EYE
DIRECT ISSUE TO SUB SEA DEPT:
QTY 1 EACH

****EQUIPMENT USED ON MOVING POD FROM LMRP TO TEST STAND IN A SAFE MANNER****** EMPAC WORK ORDER NO: 8702-007662-000
PART RECIEVED
02/21/2003 15:39:52

RECEIVED

26 March 2003 Completion Date:

Job Description		Job Number	Cruft	Job Type	Total Hours
Rig Move - Inspect	nspect Solenoid Connectors -	1550038019230	Electronics	PM	8.00
lul 09 2009	Work Log: EMPAC WORK ORD SOLENOIDS REPLACED	EMPAC WORK ORDER NO: 8703-001437-000 REPLACED	2-000		
	THESE SOLENOIDS WERE REPLACED WITH REBUILT VALVES: 3/03 5A	LACED WITH REBUIL ⁻	TVALVES: 3/03		
	5B 7A				
	53 57				
	58 EMPAC WORK ORDER NO : 8703-001437-000	03-001437-000			
	SOLENOIDS INSPECTED				
	03/25/2003 14:09:07 NAMF:SUB-SEA SWAT TEAM				
	STEPS COMPLETED:14				
	STEPS NOT COMPLETED:				
	EQUIPMENT OUT OF SERVICE (HOURS:) (DOWNTIME:)	(HOURS:) (DOWNTIME	a a		
	COMMENTS: INSPECTED SOLENOIDS AND OPERATED EACH ONE	NOIDS AND OPERATE	ED EACH ONE		

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28	
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1550038019236 Electronics Work Log: EMPAC WORK ORDER NO: 8703-001443-000 INSPECTION COMPLETE 03/25/2003 15:35:57 NAME:RALEIGH STEPS COMPLETED:ALL STEPS NOT COMPLETED: EQUIPMENT OUT OF SERVICE (HOURS:) (DOWNTIME:) COMMENTS: Rig Move - Inspect Wellbore Transmitters

Jul 09 2009

3.00

Ā

30 March 2003 Completion Date:

Job Description			Job Number Craft	Craft	Job Type	Total Hours
Project - Yellow Pod,	Pod, Soleno	Solenoid Repair,	1550038019667 Well Control	Well Control	Corrective Maintenance	0.00
Jul 09 2009	Work Log: NOTE	/ork Log: EMPAC WORK ORDER NO : 8703-001676-000 OTE	NO: 8703-001676	9-000		
	03/30/2003 10:01:50 THIS WO CLOSED [//30/2003 10:01:50 HIS WO CLOSED DUE TO CHANGE OF PROJECT CODE. SEE WO # 03-1798.	OF PROJECT CO	DE. SEE WO # 03	-1798.	

20 April 2003 Completion Date:

Job Description	Job Number	Craft	Job Type	Total Hours
Auto-Shear Springs Broken	1550038019854	Well Control	PM	0.00

Work Log: EMPAC WORK ORDER NO: 8703-001792-000 AUTO SHEAR SPINGS

03/28/2003 08:46:18

NEED IMMEDIATELY FROM CAMERON CONTROLS HOUSTON AS PER VAN WILLIAMS

CONTACT CARTER ERWIN 281-799-7564

4 EA. SPRINGS, 400 LB. TENSION EA., 11/4 dia. X 13" LG., SS, F/AUTO SHEAR, ASSY. ITEM 4, BOM 2185486-02 DWG. #SK-122716-02

CAMERON P/N 2185190-08 NO EMPAC NO. NEED CARD

CRITICAL SPARESEMPAC WORK ORDER NO: 8703-001792-000

NEED STOCK CARD 03/28/2003 08:48:09

IN NEED OF STOCK CARD.

NEED IMMEDIATELY FROM CAMERON CONTROLS HOUSTON AS PER VAN WILLIAMS CONTACT CARTER ERWIN 281-799-7564

4 EA. SPRINGS, 400 LB. TENSION EA., 1 1/4' dia. X 13" LG.,SS, F/AUTO SHEAR, ASSY. ITEM 4, BOM 2185486-02 DWG. #SK-122716-02

CAMERON P/N 2185190-08 NO EMPAC NO. NEED CARD

OP 2 OQ 2

CRITICAL SPARES EMPAC WORK ORDER NO: 8703-001792-000

CARD LOADED

04/02/2003 00:49:01 EMPAC #53150

26 May 2003 Completion Date:

Job Type Total Hours	Control PM 0.00
Craft	3 Well (
Job Number	1550038021563 Well Co
Job Description	Pep Board Solenoid Output

20 May: 2010

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EMPAC WORK ORDER NO : 8703-002904-000 URGENT ORDER REQUESTED BY HOUSTON OFFICE. SOLENOID PEP BOARDS 05/21/2003 08:55:50 Work Log:

EMPAC 3 - 2507 17 EA. BOARD, PCB, DIGITAL OUTPUT, 619095-14-04-02 NOTE BOARDS ARE IN THE PROCESS OF BEING DISCONTINUED BY CAMERON CONTROL'S VENDOR. HAVE TO BE ORDERED BY MAY 28 THI!! EMPAC WORK ORDER NO :8703-002904-000 CHANGES

05/21/2003 15:30:40

MORE CARDS ADDED AND EA CHANGED TO 7 ON TO! # 3-2507.

Kenneth,

-402805 (1 IN STOCK) EMPAC NO. - 405717 2 EA. PCB, VSBC-4 CAMERON NO. 619095-14-02-02 PEP CAMERON NO. 619095-14-01-02 PEP Please add to WO 2904 the following: 1 EA. PCB, VM-30,

TOTAL OF 7 EA. OF PCB DIG. OUTPUT 619095-14-04 PEP THIS SHOULD COMPLY WITH ADVISORY BELOW.

-3-2507

(3 IN STOCK)

REGARDS

subsea@dwh.rig.deepwater.com Ph 713-232-8262 Fax 713-232-8268 Deepwater Horizon Al Cotten OO Sr. Sub Sea Eng.

----Original Message----

From: O'leary, Steve Sent: Wednesday, May 21, 2003 10:13 AM To: Allen, Ron; Nobles, Jimmy, Matlock, David; Reudelhuber, Dan; Keeton, John

Cc: McMahan, Larry; Gunnels, Rick; Rogers, Mike W; Donohue, Steve; Ridgway, Terry; Rig_CAJ, Olm; Moore, Jimmy; LeBlanc, Janet; Hall, Mike; Rig_CAJ, Subsea; Rig_DWH, OIM; Rig_DWH, Subsea; Rig_DWN, OIM; Rig_DWN, Subsea; Rig_DWE, Oim; Rig_DWE, Subsea Subject: RE: URGENT Cameron PLC Board Obsolescence

Please note stock numbers for the relevant cards

Deepwater Horizon

Total Hours

Job Type

Craft

Job Number

Deepwater Horizon

Cameron prt number 619095-14-02-02-pep Stock number 0000000000405717

Cameron part number 619095-14-01-02-pep Stock number 000000000402805

Cameron part number 619095-14-04-02-pep Stock number 3000000000002507

SteveO

----Original Message--

From: O'leary, Steve

Wednesday, May 21, 2003 10:00 AM Sent:

To: Allen, Ron; Nobles, Jimmy; Mattock, David; Reudelhuber, Dan; Keeton, John Cc: McMahan, Larry; Gunnels, Rick; Rogers, Mike W; Donohue, Steve; Ridgway, Terry; Rig_CAJ, Oim; Moore, Jimmy; LeBlanc, Janet; Hall, Mike; Rig_CAJ, Subsea; Rig_DWH, OIM; Rig_DWH, Subsea; Rig_DWW, OIM; Rig_DWN, Subsea; Rig_DWE, Oim; Rig_DWE, Subsea Subject: RE: URGENT Cameron PLC Board Obsolescence

Gents,

I have just spoken with Jamie Ankrom and cleared up a few grey areas here

The VSBC-4 and VM30 cards are supposedly very reliab EMPAC WORK ORDER NO : 8703-002904-000

CHANGES

05/21/2003 15:30:40

le and cost \$4093 and \$5345 ea respectively Jamie advises that two each of these in stock should cover the possible these should be stocked per vessel at \$993 each please check inventory levels and previous usage and raise req for requirements for the next year. The remaining PBDout card has been problematic and he advises that 10 each of the required card to achieve these stocking levels.

I have spoken also with Janet Le Blanc who has advised that if necessary to get this rolling asap and get our order in today she can r

02 June 2003 Completion Date: Job Description

20 May 2010

TRN-INV-00034247

Yelk	w Pod,	Yellow Pod, Solenoid Repair, Rebuildin	1550038018934	Well Control	PM.	12.00
امار 09 2009 المار	5009	Work Log: EMPAC WORK ORDER NO: 8703-001359-000 ADDED INFO 03/11/2003 09:06:08 WE ARE REBUILDING SEVEN EXTRA SOLENOIDS WE HAD IN OUR SHOP TO PREPARE FOR THE WE ARE REBUILDING SEVEN EXTRA SOLENOIDS WE HAD IN OUR SHOP TO PREPARE FOR THE UPCOMING RIG MOVE. WE WILL PICK CRITICAL FUNCTION SOLENOIDS ON YELLOW POD AND SPARE POD TO SWAP OUT WITH AS PART OF OUR PREVENTATIVE MAINTENANCE PLANNING. THE SOLENOIDS WE PULL OFF OF EACH POD WILL BE REBUILT AND STOCKED FOR FUTURE RIG MOVES.	NO : 8703-001356 A SOLENOIDS WE CK CRITICAL FUNC UR PREVENTATIV EBUILT AND STOC	HAD IN OUR SHO STION SOLENOIDS MAINTENANCE	P TO PREPARE FOR THE S ON YELLOW POD AND SPA PLANNING. THE SOLENOIDS E RIG MOVES.	ARE POD
Completion Date:	Date:	04 June 2003				
Job De	Job Description		Job Number	Craft	Job Type	Total Hours
Project - Jul 09 2009	Project - Yellow Pod, ul 09 2009 W. SC 86 06 86	werk Log: EMPAC WORK ORDER NO : 8703-001798-000 Work Log: EMPAC WORK ORDER NO : 8703-001798-000 SOLENOID REPAIR 06/01/2003 14:01:43 SOLENOIDS REBUILT BY MATT GOULET AND JEREMY MOORE IN MARCH.	1550038019861 NO : 8703-001796 JLET AND JEREMY	Well Control 5-000	Corrective Maintenance	24.00
Completion Date:	Date:	07 June 2003				
Job De	Job Description		Job Number	Craft	Job Type	Total Hours
Sole	Solenoid Valve Repai	ve Repair Kits And E Recepta	1550038021576	Well Control	Other Maintenance	12.00
Jul 09 2009	5009	Work Log: EMPAC WORK ORDER NO : 8703-002915-000 POD SOLENOIDS 05/26/2003 19:16:13 REPLACED SOLENOIDS E-RECEPTACLES AND INSTALL KITS	NO 8703-002916	-000 LL KITS		
Completion Date:	Date:	08 June 2003				
Job De	Job Description		Job Number	Craft	Job Type	Total Hours
Neec	Need New Piston For	ston For Solenoid Valve	1550038019630	Well Control	PM	2.00

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Work Log: EMPAC WORK ORDER NO : 8703-001649-000

03/18/2003 08:51:57 CARD READY

ICN 00-52164

EMPAC WORK ORDER NO : 8703-001649-000 CARD REQUESTED 03/14/2003 18:20:50

CR#7768

NOUN: PISTON, VALVE, LOWER PISTON FOR SOLENOID VALVES ON POD CAMERON P/N #222808-02

CRIT CODE: CRITTICAL

COST \$ 80.74 EACH SET OP /OQ (0 & 1)

VENDOR: CAMERON CONTROLS CONTACT: MANNY GONZALES

PH#713-683-4600

EQUIPMENT USED ON: SOLENOID VALVES POD EMPAC WORK ORDER NO :8703-001649-000 CREATE CARD

03/14/2003 10:54:04 PLEASE CREATE CARD FOR: QTY NEEDED: 1

NOUN: PISTON, VALVE, LOWER PISTON FOR SOLENOID VALVES ON POD CAMERON P/N #222808-02 CRIT CODE: CRITTICAL

COST \$ 80.74 EACH SET OP /OQ (0 & 1) **VENDOR: CAMERON CONTROLS**

CONTACT :MANNY GONZALES PH#713-683-4600

EQUIPMENT USED ON: SOLENOID VALVES POD EMPAC WORK ORDER NO : 8703-001649-000

PISTON F/ SOLENOID VALVE 03/14/2003 10:18:39

VENDOR: CAMERON CONTROLS CONTACT: MANNY GONZALES

EQUIPMENT USED ON: SOLENOID VALVES POD PH#713-683-4600

QTY: 2 EACH LOWER PISTON

P/N# 222808-02

COST \$ 80.74 EACH NEED CARD, SET OP /OQ (1 & 1) EMPAC WORK ORDER NO : 8703-001649-000 PISTON FOR SOLENOID VALVE

Deepwater Horizon

06/01/2003 14:37:30 JEREMY MOORE: PART IS HERE, WILL INSTALLED ASAP.

Completion Date: 13 July 2003

Job Description		Job Number Craft	Craft	Job Type	Total Hours
Parts To Rebuild Sole	Solenoid Valves From Ri	1550038021404 Well Control	Well Control	PM	0.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8703-002797-000 COILS AND E-CONNECTORS FOR POD 05/18/2003 02:17:15 PATRS REMOVED FROM WAREHOUSE:	NO: 8703-002797 OD JSE:	000-		
	3 EA. COILS FOR SOLENOID VALVES STK # 00000000037005	S STK # 000000000	037005		
	3 EA. RECEPTACLE, E-CONNECTORS STK # 00000000036764EMPAC WORK ORDER NO : 8703-002787-000 COMPLETE 07/13/2003 13:42:09 PARTS USED PER M. GOULET.	3S STK # 00000000	0036764EMPAC W	ORK ORDER NO	8703-002797-000

Completion Date: 13 August 2003

Job Description		Job Number	Craft	Job Type	Total Hours
Ss-Adv-2003-001	Change Out 15 Sol Re	1550038019308	Well Control	PM	2.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8703-001475-000 SOLENOIDS RECEPTICALE NEW TYPE 03/14/2003 09:45:23 TOI#36764 VENDOR: CAMERON CONTROLS	R NO : 8703-00147 TYPE	000-9,		
	NEEDED 15 EACH, TO REBUILD SOLENOID VALVES OLD TYPE TO NEW TYPE (ROCHESTER) CAMERON ADVISORY & TRANSOCEAN EMPAC WORK ORDER NO : 8703-001475-000 RECEIVED PARTS 08/13/2003 11:55:28 RECEIVED PARTS	OLENOID VALVES (CEAN EMPAC WOR	OLD TYPE TO N K ORDER NO :	EW TYPE (ROCHESTER) 8703-001475-000	

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Deepwater Horizon

Completion Date: 23 August 2003

Tol. Decomined		Leb Mumber	ž.	1. J.	Total Dans
Jon Description		SOB Mainte	Clair	Jon 1 ype	rotal rours
Sm - Repair Lap Top For Pods	For Pods & Petu Repa	1550038020481	Well Control	Corrective Maintenance	4.00
Jul 09 2009 Work Log: LAP TOP AT 04/29/2003 07 LAP TOP WA	Work Log: EMPAC WORK ORDER NO : 8703-002307-000 LAP TOP AT CAMERON 04/29/2003 07:13:05 LAP TOP WAS TAKEN IN WITH CAMERON SERVICE HANDS.	NO : 8703-00230: MERON SERVICE H	7-000 ANDS.		
ER#8703-621EMPAC V LAP TOP FOR PODS 04/24/2003 15:45:44 VENDOR:CAMERON C CONTACT: ED VILLAN PH# 713-683-4600 DESP: REPAIR OF LAI QUOTE#42003HL: COST# FOR REPAIR OF CAST	ER#8703-621EMPAC WORK ORDER NO: 8703-002307-000 LAP TOP FOR PODS 04/24/2003 15:45.44 VENDOR:CAMERON CONTROLS CONTACT: ED VILLAMAIN PH# 713-683-4600 DESP: REPAIR OF LAP TOP TOSHIBA TECRA, USED FOR FIRING POD IN TEST STAND. QUOTE#42003HL. COST# FOR REPAIN \$1850.00	R NO : 8703-00230 BA TECRA, USED F	7-000 OR FIRING POD IN	TEST STAND.	

EMPAC WORK ORDER NO: 8703-002307-000
LAP TOP NON-REPAIRABLE
06/24/2003 15:43:50
LAP TOP WAS JUNKED. NEW ONE TO BE ORDERED THRU I.T. DEPT. BY ELECT. SUPVR. CHARGED TO BOP PODS PROJECT NO.

Completion Date: 24 September 2003

Job Description	Job Number	Craft	Job Type	Total Hours
Sm - Install Fiberglass Grating On Top O	1550038023774	Well Control	PM	5.00

Work Log: EMPAC WORK ORDER NO: 8703-004333-000 FIBERGLASS GRATING PODS (SM) 07/25/2003 09:45:32 VENDOR: WELL SERVICE CONTACT: HAROLD HULIN. PH# 337-364-3025 EQUIPMENT USED ON: PODS (SM)	STATE OF A
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Jul 09 2009

3-PCS EA 3'9" X 6'0 1" THICK X 1-1/2" SQUARE MESH CORVEX FIRE RETARDANT RESIN. YELLOW IN COLOR SLIP RESISTANT MENISCUS SURFACE MOLDED GRATING.

PRICE @ \$ 324.00 EA PC.

DELIVERY APPROX 3-DAYS

EMPAC WORK ORDER NO: 8703-004333-000 RECEIVED 09/24/2003 15:03:45 COMPLETED

Install New Seal Kits In 1-1/2" Pilot Op	Kits In 1-1/2"		1550038025799 Well Control	Well Control	Σď	
Jul 09 2009	Work Log:	Work Log: EMPAC WORK ORDER NO : 8703-005407-000	NO: 8703-005407	-000		
	POCV RIGIL	D CONDUIT				
	09/24/2003 15:06:48	15:06:48				
	INSTALLED SAME	SAME				

12.00

26 September 2003 Completion Date:

Job Description		Job Number Craft	Craft	Job Type	Total Hours
Installation Of Rep	Repair Kit For Pocv, Pro	1550038025891 Well Control	Well Control	PM	1.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8703-005492-000 RIGID CONDUIT POCV 09/25/2003 09:25:19 INSTALLED 4 EA. KITS 1 1/2" POCV VALVES MARK HAY	NO : 8703-00549: VALVES	5-000		

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Completion Date: 07 October 2003

Total Hours	10.00	
Tota	10	
Job Type	PM	Work Log: EMPAC WORK ORDER NO: 8703-004616-000 NOTES 09/10/2003 09:52:00 NAME: GENE FREVELE COMMENTS: MOST OF THE CABLES WERE CHANGED OUT WHILE THE PODS WERE UP. THERE WERE A COUPLE THAT WE HAD NOT RECIEVED YET. SEE MATT FOR DETAILS. EMPAC WORK ORDER NO: 8703-004616-000 COMPLETION NOTES 10/04/2003 12:56:40 NAME: GENE FREVELE / MATT STEPS COMPLETED: ALL STEPS COMPLETED: NONE COMMENTS/FINDINGS: ALL PBOF CABLES REPLACED WITH VERSION 3 PBOF CABLES HOURS EQUIPMENT OUT OF SERVICE WHILE PERFORMING PM:
Craft	Electronics	I6-000 SD OUT WHILE VED YET. SEE SD WITH VERSI
Job Number	1550038024306 Electronics	R NO : 8703-00461 ES WERE CHANGE FE HAD NOT RECIE 1-004616-000 CABLES REPLACE VICE WHILE PERF
	Replace Subsea Inte	Work Log: EMPAC WORK ORDER NO: 8703-004616-000 NOTES 09/10/2003 09:52:00 NAME: GENE FREVELE COMMENTS: MOST OF THE CABLES WERE CHANGED OUT THERE WERE A COUPLE THAT WE HAD NOT RECIEVED Y EMPAC WORK ORDER NO: 8703-004616-000 COMPLETION NOTES 10/04/2003 12:56:40 STEPS COMPLETED: ALL ST
u.	Rig Move - 730 Day - Replace	Work Log: NOTES 09/10/2003 NAME: GEN COMMENT: THERE WE EMPAC WC COMPLETIN 10/04/2003 NAME: GEI STEPS COI STEPS NOT COMMENT PROCEDUR
Job Description	Rig Move -	9009 كامار

Completion Date: 22 November 2003

b Type Total Hours	9.00
	PM
Crafí	Well Control
	1550038020724 W
Job Description	Rig Move - Install New Anodes On All Thr

Jul 09 2009

Work Log: EMPAC WORK ORDER NO : 8703-002487-000 ANODES FOR PODS ALL THREE 04/23/2003 15:57:05

VENDOR: CAMERON CONTROLS, HOUSTON TX

DESP: ANODES 12" X 3" X 1.5" FOR PODS, CAMERON MARK2

QTY: 118 EA

COST EACH \$54.00

CAMERON P/N#-2711879-01

(CHARGE TO PROJECT I.D. # R512100025 / BOP MUX CONTROL & OVERHAUL)

EMPAC WORK ORDER NO:8703-002487-000 CARD LOADED

04/30/2003 04:52:25

EMPAC #55323

CRIT: NORMAL G/L: 590

VENDOR: CAMERON CONTROLS, HOUSTON TX

DESP: ANODES 12" X 3" X 1.5" FOR PODS, CAMERON MARK2

QTY: 118 EA

COST EACH \$54.00

CAMERON P/N#-2711879-01

(CHARGE TO PROJECT I.D. # R512100025 / BOP MUX CONTROL & OVERHAUL) EMPAC WORK ORDER NO : 8703-002487-000

CARD REQUESTED 04/26/2003 13:40:25

CRIT: NORMAL G/L: 590

VENDOR: CAMERON CONTROLS, HOUSTON TX

DESP: ANODES 12" X 3" X 1.5" FOR PODS, CAMERON MARK2

QTY: 118 EA

COST EACH \$54.00

Deepwater Horizon

CAMERON P/N#-2711879-01

(CHARGE TO PROJECT I.D. # R512100025 / BOP MUX CONTROL & OVERHAUL) EMPAC WORK ORDER NO : 8703-002487-000 CREATE CARD 04/25/2003 22:42:54 CRIT: NORMAL G/L: 590 VENDOR: CAMERON CONTROLS, HOUSTON TX

DESP. ANODES 12" X 3" X 1.5" FOR PODS, CAMERON MARKZ

QTY: 118 EA

COST EACH \$54.00

CAMERON P/N#-2711879-01

(CHARGE TO PROJECT I.D. # R512100025 / BOP MUX CONTROL & OVERHAUL) EMPAC WORK ORDER NO : 8703-002487-000 RECEIVED

06/24/2003 16:04:52
RECEIVED EMPAC WORK ORDER NO : 8703-002487-000
INSTALLED NOV 2003
11/22/2003 16:55:09
ANODES INSTALLED DURING RIG NOV. 2003.

Well Control 1550038027362

Rig Move-Mux Pod

₹

TRN-INV-00034255

11/10/2003 19:35:42 REMOVED FLOWMETER AND FOUND SMALL PIECE OF O'RING AND PLASTIC IN ROCK CATCHER.

FUNCTIONED TURBINE AND REINSTALLED. NOW OK. FUNCTIONED POD VALVES TO REMOVE SALTWATER. FIRED ON PETU. ALL OK.

REPLACED ANODES.

Found six bottles 0 psi, in Y-pod. Replaced 4 from warehouse, Rebuilt two, Finished precharge on same.

Yellow pod flowmeter working. O'ring blown in one side of tubing conn. Replaced same. PULLED ROCK CATCHER AND INSPECTED.

Installed new PBOF's. Will not pull SEM on Yellow. Problem of SEM's falling out may have been jumper from wet-mate to SEM. Eliminated this cable with new PBOF run straight from RJB. Will see if this will cure the problem.

INSTALLED CLEAN POD FILTERS
Fired up yellow pod with PETU and functioned same.
R/R ALL STINGER SEALS.
TIGHTENED ALL FTGS.

25 November 2003 Completion Date:

Total Hours	12.00	
Job Type	M	
Craft	Well Control	8-000 VE
Job Number Craft	1550038027390 Well Control	Work Log: EMPAC WORK ORDER NO : 8703-006278-000 Y POD WORK DURING RIG MOVE 10/29/2003 11:31:20 PARTS CHARGED TO YELLOW POD DURING RIG MOVE
Job Description	Rig Move	Jul 09 2009

14 February 2004 Completion Date:

Job Description	Job Number	Craft	Job Type	Total Hours
Need 1 Quart Bladders & Air Chucks And E	1550038028740	Well Control	M _P	2.00

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Deepwater Horizon

Work Log: EMPAC WORK ORDER NO : 8703-006979-000 1 QUART 5000PSI BOTTLES PODS Jul 09 2009

TOI# / NUMBER BELOW FOR ITEMS NEEDED USED ON: ACCUMULATORS, 1 QUART PODS. 11/29/2003 09:46:44

SUBSEA DEPT:

1-TOI#100100000000238 / 8 EACH

2-TOI#450000000014613 / 10 EACH NEED TO LOAD NUMBER , GLOBAL CAT#

3-TOI#000000000222665 / 6 EACHEMPAC WORK ORDER NO : 8703-006979-000

RECEIVED

02/01/2004 07:09:55

STK: 450000000014613 RECEIVED EMPAG WORK ORDER NO: 8703-006979-000 RECEIVED 10 BLADDERS 02/14/2004 20:44:01 RECEIVED 10 EA: 1 QUART BLADDERS FROM WAREHOUSE.

BLADDERS ARE IN SUB-SEA SHOP.

MARK HAY

02/14/2004 12:23:40 PULLED LMRP, 2-5-2004. FUNTION POD TO FLUSH SEA WATER OUT. CHECK PACKER SEALS CHECKED ₹ 1550038030914 Well Control EMPAC WORK ORDER NO : 8704-000829-000 Work Log: E OUT OK. Rig Move-Mux Pod Jul 09 2009

25 February 2004 Completion Date:

MATT GOULET 2-5-2004

Total Hours Job Type ₹ Well Control Craft 1550038031312 Job Number Need Regulator, Medium Duty For Nitrogen Job Description

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Deepwater Horizon

Jul 09 2009

Work Log: EMPAC WORK ORDER NO: 8704-000989-000
REGULATOR FOR RISER SPIDER
02/18/2004 23:40:09
NEED REGULATOR FOR PRE-CHARGING BOTTLES ON RISER SPIDER... THAT ONLY REQUIRE 100 PSI. AND FOR CHARGING BLIND END BOTTLES ON RISER TENSIONERS. ORERED BY MARK HAY.EMPAC WORK ORDER NO: 8704-000989-000
GO GET IT

02/24/2004 07:19:23

MARK IT SHOULD BE ON THE SHELF. STK #5714 EMPAC WORK ORDER NO : 8704-000989-000 RECEIVED REGULATOR 02/25/2004 00:14:46 REGULATOR WAS IN WAREHOUSE.

09 March 2004 Completion Date:

Job Description		Job Number	Craft	Job Type	Total Hours
Need Solenoid Test	Test Unit For Pods / Proje	1550038025343 Well Control	Well Control	PM	10.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8703-005173-000 TEST UNIT F/SOLENOIDS PODS 09/05/2003 08:56:28 VENDOR: OCEANEERING	NO: 8703-00517	3-000		
	T.O.I.#-000000000052981 QTY: 1 EACH				
	PROJECT I.D # RETZTU0025 / BUP MUX CONTRUL & PUD UVERHAUL. COST \$ 14.525.00EMPAC WORK ORDER NO : 8703-005173-000 RECIEVED	IUA CONTROL & P IDER NO : 8703-0	OU OVERHAUL. 05173-000		
	03/09/2004 13:05:26 RECEIVED				

30 May 2004 Completion Date:

Job Description	Job Number	Craft	Job Type	Total Hours
Change Out Batteries In Sem For Deadman.	1550038024053	Well Control	PM	4.00

Work Log: EMPAC WORK ORDER NO : 8703-004490-000 BATTERIES FOR SEM/YELLOW POD

07/16/2003 06:38:41

VENDOR: CAMERON CONTROLS.

CONTACT: BRAD CODY.
DESP: BATTERIES FOR SEM FOR DEADMAN

PROJECT NO# R512100025 / BOP MUX CONTROL & POD OVERHAUL.

1- BATTERIES P/N# 2021604-01, NEED 3 EACH, COST \$916.00 EA

2-BATTERIËS P/N# 2021600-01, NEED 1 EACH, COST. \$ 2719.11 EA

NOTE- BATTERIES ARE CHANGED OUT YEARLY FOR DEADMAN SYSTEM ,PER CAMERON RECOMMENDATION.

*WILL NEED CARDS ON BATTERIES

EMPAC WORK ORDER NO : 8703-004490-000

CARD READY

07/18/2003 09:14:35 STOCK # 60625

1 EA - BATTERIES ASSEMBLY, SEM, MARK II CAMERON CONTROL P/N# 2021600-01, \$ 2719.11 EA, ON REQUEST ONLY, G/L 591, CRIT: NORMAL.

STOCK # 25271

3 EA - BATTERIES P/N# 2021604-01, COST \$916.00 EA NOTE- HAVE ONE OF THESE ON THE SHELF BUT IT IS OUTDATED, NEED TO DISPOSE OF THIS.

VENDOR: CAMERON CONTROLS. CONTACT: BRAD CODY.

DESP: BATTERIES FOR SEM FOR DEADMAN

**********PROJECT NO# R512100025 / BOP MUX CONTROL & POD OVERHAUL. **********

EMPAC WORK ORDER NO : 8703-004490-000

CARDS REQUESTED

07/16/2003 19:14:35

CR#8888

\$ 2719.11 EA, ON REQUEST ONLY, G/L 591, CRIT: NORMAL. ALREADY LOADED

1 EA - BATTERIES ASSEMBLY, SEM, MARK II CAMERON CONTROL P/N# 2021600-01,

STK #2021604-01 BATTERIES P/N# 2021604-01, NEED 3 EACH, COST \$916.00 EA NOTE- HAVE ONE OF THESE ON THE SHELF BUT IT IS OUTDATED, NEED TO DISPOSE OF THIS.

VENDOR: CAMERON CONTROLS.

CONTACT: BRAD CODY. DESP: BATTERIES FOR SEM FOR DEADMAN

Deepwater Horizon

20 May: 2010

********PROJECT NO# R512100025 / BOP MUX CONTROL & POD OVERHAUL.********

EMPAC WORK ORDER NO: 8703-004490-000 CREATE CARD AND UPDATE INFO

07/16/2003 08:01:23

PLEASE CREATE CARD FOR

1 EA - BATTERIES ASSEMBLY, SEM, MARK II CAMERON CONTROL P/N# 2021600-01, \$ 2719.11 EA, ON REQUEST ONLY, G/L 591, CRIT: NORMAL.

ALREADY LOADED

STK #2021604-01 BATTERIES P/N# 2021604-01, NEED 3 EACH, COST \$916.00 EA NOTE- HAVE ONE OF THESE ON THE SHELF BUT IT IS OUTDATED, NEED TO DISPOSE OF THIS.

EMPAC WORK ORDER NO : 8703-004490-000

SEE NOTES

01/03/2004 14:33:54

BATTERIES IN WAREHOUSE WILL CHANGE WHEN BOP ON DECK (RIG MOVE) MATT GOULET EMPAC WORK ORDER NO : 8703-004490-000
BATTERIES ON BOARD

01/18/2004 09:37:59 CLOSE OUT WO. WORK TO BE COMPLETED ON NEXT MOVE.

Regulators Are Oscillating Causing Failu

Well Control 1550038024268

₹

15.00

Deepwater Horizon

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20 May 2010

TRN-INV-00034260

Work Log: EMPAC WORK ORDER NO: 8703-004580-000

CARD READY

08/08/2003 18:02:41 ST#00-61876 DESC: ORIFICE, HI WATT, JET IN BULKHEAD UNION, 1/4" X 1/4" SS, 3000 PSI WP, 6000 PSI PROOF PRESSURE, FOR SUBSEA POD REGULATOR, LEE P/N JEHX0521450B

PRICE: \$312.24 EA

ADDITIONAL: CRITICAL SPARES OP 1 00

CONTACT: THE LEE COMPANY

IRVING, TEXAS 972-791-1010EMPAC WORK ORDER NO : 8703-004580-000

CARD REQUEST NEEDED - TATE

08/06/2003 11:58:41 DESC: ORIFICE, HI WATT, JET IN BULKHEAD UNION, 1/4" X 1/4" SS, 3000 PSI WP, 6000 PSI PROOF PRESSURE, FOR SUBSEA POD REGULATOR, LEE P/N JEHX0521450B

PRICE: \$312.24 EA

ADDITIONAL: CRITICAL SPARES OP 1 0Q 1

CONTACT: THE LEE COMPANY

IRVING, TEXAS 972-791-1010 EMPAC WORK ORDER NO: 8703-004580-000

ORIFICES FOR POD REGULATORS

AS PER CORPORATE TO ORDER 08/06/2003 09:30:57

17 EA. ORIFICE, HI WATT JET IN BULKHEAD UNION, 1/4" X.1/4" S.S., 3000 PSI WP, 6000 PSI PROOF PRESSURE, FOR SUBSEA POD REGULATOR

\$312.24 EA

P/N JEHX0521450B

CRITICAL SPARES OP 1 0Q 1

CONTACT: THE LEE COMPANY IRVING, TEXAS

972-791-1010

NEED CARD. PLEASE ADVISE WHEN STOCK NO. IS AVAILABLE SO THAT THE OTHER RIGS CAN ORDER SAME. EMPAC WORK ORDER NO : 8703-004580-000

Deepwater Horizon

20 May: 2010

SEE NOTES

02/15/2004 16:18:44 INSTALLED 5 EACH .060 ORIFACE IN BLUE POD REGULATORS. WILL DO OTHER PODS WHEN BOP ON DECK BACK SETTING ATLANTIS (3#,5#,7#.61#,63#) BULKHEAD PLATE. NOTE PULLED READ BACK

BOTTLES OFF POD BLUE

MATT GOULET 2-8-2004 EMPAC WORK ORDER NO : 8703-004580-000

YELLOW POD ORIFICES

05/10/2004 08:00:01 INSTALLED 5/04 5 EA. AL COTTEN EMPAC WORK ORDER NO : 8703-004580-000

WHITE POD

05/30/2004 07:31:30 INSTALLED 5 EA. 5/27/04

EMPAC WORK ORDER NO: 8703-004580-000

BLUE POD

NSTALLED 5 EA. 4/2004 05/30/2004 07:32:16

10 June 2004 Completion Date: Total Hours 9.00 NEEDED ASAP FOR NEW POD- RCB MODIFICATIONS. CAN BE HAND CARRIED BY CAMERON SERVICE HANDS WHEN THEY COME TO INSTALL SOFTWARE FOR UPGRADE. AVAILABILITY OF ITEMS CAN BE CHECKED THRU BRAD CODY AT CAMERON. CAN BE TWO DAY FED-EX TO RIG ALSO POSSIBLE. THEY ARE Job Type Well Cantrol NEEDED NOW!EMPAC WORK ORDER NO : 8704-002318-000 Craft EMPAC WORK ORDER NO : 8704-002318-000 1550038033678 Job Number 0 - 426218 3 EA O'RING STOCK NO. 4093 - 158 RECEIVED FROM ENTERPRISE Ss To Replace Sem O'Rings - Store Keepe 04/29/2004 12:00:02 05/30/2004 07:29:23 Work Log: EMPAC POD SEM O'RINGS 3 EA. O'RING RECEIVED Job Description Jul 09 2009

02 August 2004 Completion Date:

Total Hours Job Type Craft Job Number Job Description

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20 May: 2010

TRN-INV-00034262

CREATE CARDS FOR THESE ITEMEMPAC WORK ORDER NO : 8704-000956-000 ₹ VENDOR: CAMERON CONTROLS ICN# 426212 NEED 1 EACH ICN# 1028-1767 NEDD 1 EACH USED ON: DISTIBUTION PANEL B/ DAMAGED LAMP HOLDER 230 VOLTS ICN# 426212 NEED 1 EACH ICN# 1028-1767 NEDD 1 EACH USED ON: DISTIBUTION PANEL B/ DAMAGED LAMP HOLDER 230 VOLTS 1550038031268 Well Control Work Log: EMPAC WORK ORDER NO: 8704-000956-000 DISTRIBUTION PANEL B / CAMERON "EMPAC WORK ORDER NO: 8704-000956-000 WORK COMPLETE 08/02/2004 06:40:15 SBERTONE REPAIRED LIGHT ON PANEL. EMPAC WORK ORDER NO: 8704-000956-000 NEEDS COMPLETION BY ET 02/16/2004 12:31:06 LOAD AND ADD ITEMS AS PER SS NOTES 02/16/2004 12:22:36 VENDOR: CAMERON CONTROLS Need Bulb And Lamp For Distribution Pane 08/01/2004 13:04:06 LOAD AND ADD CRIT: NORMAL G/L 591 ORO BOM Jul 09 2009

0.50

10 August 2004

Completion Date:

Job Description	Job Number	Craft	Job Type	Total Hours
Install Repair Kit In 3/4" Cameron Sli	1550038037815	Well Control	PM	4.00

20 May: 2010

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Deepwater Horizon

EMPAC WORK ORDER NO : 8704-000403-000 BEYOND REPAIR 05/25/2004 15:26:05 CABLE BEYOND REPAIR. ORDERD NEW ONE.

Work Log: EMPAC WORK ORDER NO: 8704-004275-000 COMPLETE 08/10/2004 14:14:27 INSTALLED NEW REPAIR KIT IN 3/4" SLIDE VALVE.

Jul 09 2009

MARK HAY

05 September 2004 Completion Date:

Job Description	[dol.	Job Number Craft	Craft	Job Type	Total Hours
365 Day-Mux Pod	15500	38039054	1550038039054 Well Control	PM	1.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8704-004850-000 SEE NOTES 09/05/2004 11:56:19 BOP SUB SEA, WILL GET RIG MOVE	8704-004850	0-000		
	MATT GOULET				

19 October 2004 Completion Date:

Job Description		Job Number	Craft	Job Type	Total Hours
Sm - Repair F	Sm - Repair Pbof Cable To Flowmeter	1550038030291 Well Control	Well Control	Corrective Maintenance	24.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8704-000403-000 PBOF TO FLOWMETER YELLOW 01/25/2004 08:19:52 SERVICE MATERIAL A new assembly is \$883.00 each. We will replace the assembly you sent back at 50% of the cost for \$441.50 Seacon's part number is #7879-101 Cameron part number is 202 0716-01-04 Delivery will be 3 weeks ARO F.O.B.: El Cajon, CA	FR NO:8704-00040	13-000 embly you sent ba er is 202 0716-01-1	ck at 50% of the cost for \$441.50 34 Delivery will be 3 weeks ARO	_
	AL COTTEN STEVE DONOHUE				

11 November 2004	
Completion Date:	

Job Description	İ	Job Number	Craft	Job Type	Total Hours
Need 4-Way	Need 4-Way Dummy Plugs For Pod Stk: 3-	1550038041595	Well Control	PM	1.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8704-006056-000 RECIEVED SAME 11/11/2004 11:29:58 SENT TO STEVE DONOHUE	ER NO : 8704-00605	9-000		
Completion Date:	14 November 2004				
Job Description		Job Number	Craft	Job Type	Total Hours
1/4" Regto B	1/4" Regto Be Tested For Pod	1550038040758	Well Control	- WA	3.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8704-005626-000 DATESTART: 10/09/2004 03:48:20.000000 DATECOMPLETE: 11/14/2004 23:59:59.000000 No Work Reported in EMPAC	ER NO : 8704-00562 20.000000 :59:59.000000	9-000		
Completion Date:	13 January 2005				
Job Description		Job Number	Craft	Job Type	Total Hours
Pods - Rach	Pods - Rachet Strap For Sem For New Conn	1550038039546	Well Control	PM	3.00

EMPAC WORK ORDER NO : 8704-005170-000 RACHET CLAMPS F/ ATA-FITA CONN

09/11/2004 15:06:40

VENDOR: ABCO PROCUCT INC.

CONTACT: WILLIAM SHULTS HOUSTON TX,77265

PH#: 713-871-8020 QTY: 3 EACH

NEED CARDS LOADED

PART NUMBER FOR RACHET CALMPS (P/N-2419.21) DESP: RATCHET CLAMP ASSEMBLY, 4.23" LINE X 16" OD (P/N-2419.21) TO SECURE NEW ATA/FITA

CONNECTOR ON SEM COST\$ 595.00 EACH * NOTE IF THREE RIGS BUY 9 EACH COST GOES DOWN TO \$ 335.00 EACH SEE

BELOW

Can Janet order and charge to the rigs that agree or do we each order 3 ourselves? The Nautilus approves 3.

David

when plugged directly into the SEM. The strap would wrap around the SEM housing and the connector body, with a poly urethane spacer between the two. The ratchet assembly is stainless, but no metallic parts come in contact with Attached is a quote from ABCO for a strap ratchet clamp. This would be used to support the ATA-FITA connector either the SEM or connector, so there are no electrolysis concerns. As you can see there is quite a price break if we order 9 at the same time, that would be 3 per rig. Two in service one spare.

Regards

Steve

Good morning Steve. I have attached the drawing and the quotation for the clamps we discussed last week. Please purchase the (9) clamps at once. Also we will confirm the stand off between the components before manufacture. note that if the quantity is only (3) clamps the price would be greater. The key is to get all of the rigs to agree and

will be calling you later to discuss this matter.

Thanks & regards. William L. Shults

Sales Mgr

ABCO Products Inc.

Tel: 713.871.8020

Deepwater Horizon

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Total Hours

Fax: 713.871.0492 Cell: 713.806.7699

EMPAC WORK ORDER NO : 8704-005170-000

CARD REQUESTED 09/30/2004 23:06:46 ST# 87813

VENDOR: ABCO PROCUCT INC.

CONTACT: WILLIAM SHULTS HOUSTON TX,77265

PH#: 713-871-8020 QTY: 3 EACH

NEED CARDS LOADED

PART NUMBER FOR RACHET CALMPS (P/N-2419.21) DESP: RATCHET CLAMP ASSEMBLY, 4.23" LINE X 16" OD (P/N-2419.21) TO SECURE NEW ATA/FITA

CONNECTOR ON SEM

COST\$ 595.00 EACH * NOTE IF THREE RIGS BUY 9 EACH COST GOES DOWN TO \$ 335.00 EACH SEE

BELOW

The Nautilus approves 3.

Can Janet order and charge to the rigs that agree or do we each order 3 ourselves?

David EMPAC WORK ORDER NO : 8704-005170-000 RACHET STRAPS TO SHORT

01/13/2005 08:05:34

THE RACHET STRAPS WERE TO SHORT,... VENDOR WILL SEND US THREE MORE NEW ONES.

1550038044174 Well Control Rig Move-Mux Pod

Jul 09 2009

8.00

₹

4.00

Corrective Maintenance

EMPAC WORK ORDER NO : 8704-007397-000 01/13/2005 08:49:12 DID A COMPLETE FUNCTION ON POD FUNCTIONED SAME Work Log:

1550038044560 Well Control Replace Plug Flange 16 Awg, 2m Cameron C

Work Log: EMPAC WORK ORDER NO: 8705-000113-000 INSTALLED SAME IN YELLOW POD Jul 09 2009

01/13/2005 06:47:39

KEN YEO,,, WITH CAMERON INSTALLED SAME IN YELLOW POD....1-2-05

14 January 2005 Completion Date: Job Type Craft Job Number Job Description

Deepwater Horizon

Bop Control System Not Talking To Hitech

EMPAC WORK ORDER NO : 8703-005128-000 *IROUBLESHOOTING PROBLEM*

09/03/2003 23:26:13

ELECTRICAL SHOP. EVERYTHING TESTED FINE. THE TRANSMITS JUST BLINK IN TIME WITH THE TRANSMIT LED ON THE CORRESPONDING PLC. THERE IS NO RECEIVE LEDS BLINKING ON ETHIER PLC. THINKING THAT THERE WAS A PROBLEM WITH THE ADAMS CONVERTER. SWAPPED IN THE ONE FROM THE CABINET IN THE BOP CONTROL ROOM AT BOTH ENDS. THE SYMTOM DID NOT CHANGE. NOTEWORTHY IT THAT WHEN THE 232 SIDE OF THE ADAMS AT THE DCI END IS CONNECTED THE CP CARD ON THE DCI DOES SHOW A FAULT. THE CAMERON SIDE SHOWS NO SIMILAR REACTION. TESTED THE FIBER PAIR THAT THE DCI WAS CONNECTED TO FROM THE BOP CONTROL BOX IN ROUBLESHOOTING TO CONTINUEEMPAC WORK ORDER NO: 8703-005128-000

JPDATE 3

11/16/2003 20:22:04

BEFORE KEN YEO OF CAMERON LEFT WE DISCUSSED THIS PROBLEM. BASICALLY WITHOUT THE PROGRAM THAT HE DID NOT BRING HE WAS NOT ABLE TO SEE WHAT HE NEEDED TO HELP US WITH THIS PROBLEM. HOWEVER WE DID DISCUSS WHAT COULD BE DONE. I HAVE DONE WHAT WAS DISCUSSED AND DETAILS FOLLOW.

WE DISCUSSED THAT PERHAPS IT WAS THE FISO OR THE CPU OR EVEN THE EPROM. WE CAN ONLY SWAP THE CPU AND THE FISO WITH THE CARDS FROM THE B SYSTEM. THIS I DID WITH NO SUCCESS OR CHANGE IN THE PROBLEM. I TRIED EVERY COMBINATION POSSIBLE AND THERE WAS NO CHANGE OR IMPROVEMENT WITH THE COMMUNICATIONS TO THE HITEC SYSTEM. THE FISO CARD HAS ACTIVITY ON THE LED AS DOES THE CPU, BUT NOTHING CHANGES ON THE HITEC SCREENS. THIS WAS AND REMAINS THE PROBLEM. PASSING TO ELECTRICAL SUPERVISOR TO DISCUSS FURTHER OPTIONS. EMPAC WORK ORDER NO 8703-005128-000

JPDATE 2

12/07/2003 03:59:17

AND THEN THE PROGRAM ON THE LAPTOP LOCKED UP. THE SYSTEM STILL DOES NOT TALK TO HITEC. KEN YEO CONNECTED HIS COMPUTER AND OPENED A PROGRAM THAT SPIT DATA INTO HITEC, ONCE,

AS PER KEN YEO I SWAPPED THE FISO CARD FROM THE B DIST BOX, WITH NO SUCCESS. NEXT I WILL TRY TO SWAP IN THE CPU FROM B. NOTE THE EPROM MUST BE CHANGED IN ORDER FOR THE CPU TO WORK IN THE A DIST BOX. EPROMS ARE SET FOR ONE OR THE OTHER.

LET THE B FISO IN THE A PLC. THE A FISO AND B CPU ARE IN THE BOTTOM OF THE A DIST BOX.

WILL CONTINUE TOMORROW. EMPAC WORK ORDER NO : 8703-005128-000

02/24/2004 02:17:51

CAN NOT TROUBLE SHOOT DUE TO OPERATIONS. WILL CONTINUE WHEN STACK HITS THE DECK.

TOMMY

20 May: 2010

18 February 2005

Completion Date:

Job Description	lon	Job Number	Craft	Job Type	Total Hours
Tracking	racking Sending Used Cameron 1/4" 2	1550038046163 Well Cantrol	Well Control	Corrective Maintenance	1.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8705-001018-000 TRACKING 02/17/2005 15:28:02 BILL STRINGFELLOW	VO : 8705-001018	000-1		
	TRACKING. SENDING USED CAMERON 1/4" 2 POSITION 4 WAY VALVES TO CAJUN EXPRESS. SENDING A TOTAL OF 21 VALVES. PART NUMBER 309825-12. EMPAC WORK ORDER NO : 8705-001018-000 DETAILS	(ON 1/4" 2 POSITI R 309825-12. EMF	ON 4 WAY VALVE PAC WORK ORDE	S TO CAJUN EXPRESS. SENI R NO:8705-001018-000	DING A
	02/18/2005 13:04:00 SHIPPED FROM RIG ON CARGO MANIFEST # 5121-2819 FEBRUARY 18 TO BE FORWARDED TO CAJUN EXPRESS	MFEST # 5121-28	19 FEBRUARY 18 1	TO BE FORWARDED TO CAJI	N

Completion Date: 19 February 2005

Job Description		Job Number	Craft	Job Type	Total Hours
Pods - Cap Screws	s For Blanking Plates Fo	1550038041854	Well Control	Corrective Maintenance	4.00
9 2009 مارا	Work Log: EMPAC WORK ORDER NO: 8704-006231-000 CAP SCREWS AND WASHERS POD 11/03/2004 07:31:44 VENDOR: CAMERON CONTROLS NEED CARD LOADED FOR CAP SCREWS. EQUIPMENT USED ON: POD BLANK PLATES FOR 1/4" VALVES 1-P/N-702529-10-02, ICN#1006-3769 47EA IN (WH) NEED 53 EACH WASHERSEMPAC WORK ORDER NO 2- P/N-702529-10-02, ICN#1006-3769 47EA IN (WH) NEED 53 EACH WASHERSEMPAC WORK ORDER NO CARD REQUEST 11/08/2004 19:00:26 CR# 87-13281	NO : 8704-006231 FWS. < PLATES FOR 1/4' COST \$ 1.00 EACH 47EA IN (WH) NE	-000 'VALVES APPROX ED 53 EACH WASP	HERSEMPAC WORK ORDER	 O

1-P/N-702505-04-00-12, CAPSCREW 1.250 X .312-18 100 EACH, COST \$ 1.00 EACH APPROX

20 May 2010

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Completion Date: 22 February 2005

Total Hours	4.00	NSTALLED THAT I
Job Type	PM	K LOG: EMPAC WORK ORDER NO: 8705-000674-000 N COLLINS 2/2005 05:59:04 7-ALLED LAST SECTION OF HAND RAIL, AND PUT END CAPS ON THE OTHER RAILS THAT I INSTALLED T HITCH.JOB IS COMPLETED. EMPAC WORK ORDER NO: 8705-000674-000 ER 9/2005 17:10:25 SHED ALL BUT ONE SMALL SECTION OF HAND RAILS AND PUT END CAPS ON HAND RAILS THAT I E ALL READY COMPLETED.
Craft	Welder	4-000 END CAPS ON ER NO : 870! AILS AND PUT
Job Number	1550038045367	JER NO : 8705-000674 JAND RAIL, AND PUT E D.EMPAC WORK ORD SECTION OF HAND R
	Steps, And Hand Rails	Work Log: EMPAC WORK ORDER NO: 8705-000674-000 JOHN COLLINS JOHN COLLINS 02/22/2005 05:59:04 INSTALLED LAST SECTION OF HAND RAIL, AND PUT END CAPS ON THE OTHER RAILS THAT I INSTALLE LAST HITCH. JOB IS COMPLETED. EMPAC WORK ORDER NO: 8705-000674-000 TATER 01/29/2005 17:10:25 FINISHED ALL BUT ONE SMALL SECTION OF HAND RAILS AND PUT END CAPS ON HAND RAILS THAT I HAVE ALL READY COMPLETED.
Job Description	Install Greading, Steps,	90 2009 ابال

Completion Date: 06 April 2005

Job Description		Job Number Craft	Craft	Job Type	Total Hours
Rig Move - SI - 2 Came	Cameron Service Perso	1550038043280 Well Control	Well Control	Corrective Maintenance	4.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8704-006902-000 LABOR	NO : 8704-00690;	2-000		
	12/11/2004 07:56:11 2 GUYS, 8 DAYS, \$1800 PER DAY PER PERSON.	ER PERSON.			

Completion Date: 28 May 2005

Job Description		Job Numbe	Job Number Craft	Job Type	Total Hours
Rig Move-Mux	c Pod	1550038047	1550038047770 Well Control	PM	4.00
Jul 09 2009	Work Log: EMPAC V OUT OF SERVICE 05/28/2005 16:02:27 RII I STRINGEFILOW	Work Log: EMPAC WORK ORDER NO : 8705-001842-000 OUT OF SERVICE 05/28/2005 16:02:27 RILL STRINGFELLOW	001842-000		

THIS POD IS OUT OF SERVICE AT THIS TIME. IT WAS REPLACED WITH THE # 3 (WHITE) POD IN DECEMBER OF 2004.

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Completion Date: 28 June 2005

		155002805018		Corrective Maintenance	- C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C
Jul 09 2009 V R	Vork Log: EPLACED 6/28/2005 1 HANGED A	EMPAC WORK ORDER NO : 8705-003474-000 7:21:33	4-000		
Completion Date:	02 July 2005				
Job Description		Job Number	Craft	Job Type	Total Hours
Rig Move-Mux Pod	x Pod	1550038050662	Well Control	PM	4.00
109 مار	Work Log: EMPAC WORK ORDER NO: 8705-003601-0 REPLACED VALVES 07/02/2005 10:20:36 REPLACED 1" RAM VALVE AND 7 EA. 1/4" POD VALVES	EMPAC WORK ORDER NO : 8705-003601-000 vALVES 10:20:36 1" RAM VALVE AND 7 EA. 1/4" POD VALVES	1-000 S		
	SENT POD FRAME IN TO BE BLASTED & PAINTED	ASTED & PAINTED			
Completion Date:	21 July 2005				
Job Description		Job Number	Craft	Job Type	Total Hours
Replace Desid	Replace Desiccant Silicagel Bags For Pod ul 09 2009 Work Log: EMPAC WORK ORE IN WAREHOUSE 05/06/2005 17:14:01 IN WAREHOUSE	Bags For Pod 1550038044617 Wel EMPAC WORK ORDER NO : 8705-000154-000 17:14:01 17:14:01 0.05E	Well Control 4-000	Corrective Maintenance	2.00

Completion Date: 04 August 2005

Total Hours	
Job Type	
Craft	
Job Number	
Job Description	

Deepwater Horizon

20 May 2010

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Solenoids, Cameron Jul 09 2009 C C	Controls, fork Log: LOSED 8/04/2005 16 LOSED BY	Pod, Rebuil 1550038052107 Wel EMPAC WORK ORDER NO : 8705-004431-000 5:41:40 K. PETERSEN	Well Control	Corrective Maintenance	30.00
Completion Date: Job Description	06 August 2005	Job Number	Craft	Job Type	Total Hours
Repair Kits For Pod Jul 09 2009 V	Vork Log: VOTES 18/06/2005 0/ HIS WO RE	1550038052437 Wel EMPAC WORK ORDER NO : 8705-004675-000 6:31:33 PLACED BY 4820—DGATES	Well Control 5-000	Corrective Maintenance	1.00
Completion Date: Job Description	27 August 2005	Job Number	Craft	Job Type	Total Hours
Rebuild 1/4" Jul 09 2009	Pod Valve On Po Work Log: UPLANNED 07/07/2005 1 PLEASE CAI	d #2 1550038051410 Well EMPAC WORK ORDER NO : 8705-004030-000 WORK ORDER 9:28:05 NCEL SIR AND ADD PROJECT CODE ON PAGE EMS ONCE PROJECT CODE	Well Control 0-000	Corrective Maintenance	22.00
Completion Date:	17 September 2005	Job Number	Cra	Joh Tyne	Total Hours
Replace Pile	Replace Pilot Regulator With A Better De	1550038050948	Well Control	Corrective Maintenance	1.00

EMPAC WORK ORDER NO: 8705-003777-000 Work Log: EMPAC PILOT REGULATOR

06/20/2005 20:23:08

BILL STRINGFELLOW

NEED TO ORDER NEW GILMORE REGULATOR FOR POD. THIS IS TO BE CHARGED TO 2005 BOP MAINTENANCE BUDGET. THIS IS PER STEVE DONOHUE AND JOHN KEETON.

TO BE ORDERED FROM: BUXTON INTEREST INC. 9826 WHITHORN DRIVE

PHONE: (281) 855-4237 HOUSTON, TX. 77095

DESC.

P/N 44476-2

Ω F. ←

\$7,455.00

<u>S</u>

VALVE, REGULATOR, HYDRAULIC 44476-2 SUBSEA, 1/2" SAE, (T.C. MATERIAL) GILMORE EMPAC WORK ORDER NO : 8705-003777-000 CARD REQUEST 14581 CARD REQUESTED 06/25/2005 15:36:26

VALVE, REGULATOR, HYDRAULIC SUBSEA, 1/2" SAE, (T.C. MATERIAL), GILMORE P/N 44476-2 EMPAC WORK ORDER NO: 8705-003777-000 CREATE CARD AND ORDER 1

PLEASE CREATE CARD FOR FOLLOWING VALVE 06/25/2005 12:40:13

NOUN - VALVE

QUALIFIER - REGULATOR DESCRIPTION - VALVE, REGULATOR, HYDRAULIC SUBSEA, 1/2" SAE, (T.C. MATERIAL), GILMORE P/N

44476-2

\$7,455.00

ORO

NORMAL BOM: 87 SUBSEA CONT. POD #2 YELLOW

TO BE ORDERED FROM: BUXTON INTEREST INC. 9826 WHITHORN DRIVE

PHONE: (281) 855-4237 HOUSTON, TX. 77095

Deepwater Horizon

Job Description	Job Number	Craft	Job Type	Total Hours
730 Day-Mux Pod	1550038053790 Well Control	Well Control	PM	3.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8705-005489-000 OUT OF SERVICE 10/08/2005 15:45:25 BILL STRINGFELLOW	000-6		
	THIS POD HAS BEEN SENT IN AND WILL BE TRANSFERED TO THE NAUTILUS.	ERED TO THE NA	JTILUS.	
365 Day-Mux Pod	1550038053920 Well Control	Well Control	PM	3.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8705-005569-000 OUT OF SERVICE 10/08/2005 15.53.43 BILL STRINGFELLOW	000-6		
	THIS POD IS OUT OF SERVICE AT THIS TIME. IT WILL BE TRANSFERED TO THE NAUTILUS.	BE TRANSFEREI	O TO THE NAUTILUS.	

Completion Date: 09 October 2005

Job Description	Job Number	Craft	Job Type	Total Hours
Pods - Sm - Need Three Each Fcr 90 Degre	1550038038033	Well Control	Corrective Maintenance	8.00

EMPAC WORK ORDER NO : 8704-004458-000 Work Log: EMPA CARD NEEDED?

08/13/2004 18:28:19

Description Qty Unit Price Delivery ARO

1A MSSL R/A FCR-ADAPTER per sketch MK07304-01 3 \$991.08 EA 4 WKS ARO

VENDOR:SEACON BRANTNER & ASSOCIATES HOUSTON TEXAS

PH#281-599-3509 CONTACT: MIKE Mc KINLEY

NEED CARD LOADED

EMPAC WORK ORDER NO: 8704-004458-000
SHIP ONE TO STEVE DONOHUE
08/24/2004 11:58:12
1 EA. FIXTURE NEEDS TO BE SHIPPED TO STEVE DONOHUE IN HOUSTON TO BE INSTALLED ON WHITE
POD BEING REPAIRED AT CAMERON CONTROLS HOUSTON EMPAC WORK ORDER NO: 8704-004458-000
MSSL R/A FCR ADAPTER (SEM'S)
03/11/2006 10:19:38

VENDOR: SEACON BRANTNER & ASSOCIATES

HOUSTON TEXAS

PH#281-599-3509

CONTACT MIKE Mc KINLEY **NEED CARD LOADED**

Brantner & Associates, Inc.

15720 Park Row Ste. 200 Houston, Texas

Tel: (281) 599-3509

Fax: (281) 599-3716

E-mail: mmckinley@seaconbrantner.com Website: www.seaconbrantner.com Attention: Steve Donohue From: Mike McKinley Company: Transocean Date: August 10, 2004

Subject: Quote Control#: MMQ072804-01

Seacon?/Brantner & Associates are pleased to present to you the following quotation:

Deepwater Horizon

Item Description Qty Unit Price Delivery ARO

1A MSSL R/A FCR-ADAPTER per sketch MK07304-01 3 \$991.08 EA 4 WKS ARO

SEA CON Standard Terms & Conditions Apply
Delivery is based on current workload and can be confirmed upon receipt of order.
Terms: Net 30 for established accounts; Visa/Mastercard orders accepted.
Pricing valid: 30 days
Fob: El Cajon, Ca

Best regards,

Mike McKinley

Pods - Repair Ki	Pods - Repair Kits For 1/4" Manual Reg L	1550038040771	Well Control	1550038040771 Well Control Corrective Maintenance	1.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8704-005637-000 DATESTART: 10/09/2004 22:29:07.000000 DATECOMPLETE: 10/09/2005 23:59:59.000000 No Work Reported in EMPAC	ER NO : 8704-00563' 07.000000 8:59:59.000000	7-000		
Sm - Send In # 2	Sm - Send In # 2 Pod Frame To Be Blasted	1550038051415 Well Control PM	Well Control	PM	2.00

Jul 09 2009

Work Log: EMPAC WORK ORDER NO: 8705-004036-000 BLAST & PAINT FRAME

SEND POD FRAME TO: 06/30/2005 17:18:46

TESCO 50 CONCORD ROAD HOUMA, LA. 70360

ATTN

Tesco, Inc Phone (985) 872-6450 Fax (985) 872-9200 Operations Manager Al Hebert

Paint spec for the pod frame, Harvey is suggesting Tesco in Amelia to paint the pod frames

Sent: Thursday, June 09, 2005 1:03 PM To: Donohue, Steve Subject: RE: Paint ----Original Message----From: Delaney, Harvey

Hey Steve; We have a company in Amelia called Tesco that does a lot of work for us down there and they do a good

NAR Technical Field Support Office 832-587-8734 Harvey Delaney Coatings Supt.

Cell 713-201-1268

--Subject: Paint

Harvey,

Also need a blast/paint spec. Sub Sea Service, top coat white. The frame wraps around the pod, and does see some bumps etc as the pod is installed/removed from the stack, need a paint system that will be a little tolerant to the

Deepwater Horizon

20 May: 2010

SEE PAINT SPECIFICATION FOR POD FRAME:

Surface Preparation

Ultra High Pressure Water blast

All areas to be blasted shall be free of grease, oil, and other contaminates prior to any blasting. UHP blast all surfaces to a standard of SSPC SP-10 "Near white Metal" with a minimum nozzle pressure of 1700

(25,000 p.s.i.). Grit Blast bar

All areas to be grit blasted are to be degreased and fresh water washed to insure a clean surface prior to blasting. All areas to be coated shall be grit blasted to a standard of SSPC SP-10 "Near White Metal" with a minimum

profile of 1.5 mils

Coatings System

Apply a stripe coat to all lips, welds, and sharp edges of Amerlock II high build epoxy (buff) for immersion at a minimum of 3 mils.

Apply a full prime coat of Amerlock II high build epoxy (buff) for immersion at 6 to 8 mils.

Apply a stripe coat to all lips, welds, and sharp edges of Amerlock II high build epoxy (white) for immersion at a minimum of 3 mils.

Apply a full finish coat of Amerlock II high build epoxy 'WHITE" for immersionEMPAC WORK ORDER NO : 8705

COMPLETE

10/09/2005 16:28:31

BILL STRINGFELLOW

FRAME WAS PAINTED BLUE. IT WAS SUPPOSE TO BE PAINTED WHITE. DUE TO THE NAUTILUS LOOSING THERE LMRP DURING HURRICANE KATRINA OUR SPARE POD WAS SENT TO THEM. THIS FRAME WILL BE SENT IN TO GO WITH THE POD. EMPAC WORK ORDER NO : 8705-004036-000

SENT IN TO GO WITH THE POD. BLAST & PAINT FRAME

06/30/2005 17:18:46

at 6 to 8 mils

1550038053472 Replacement O-Rings For Pod Valves Stk: Work Log: EMPAC WORK ORDER NO: 8705-005360-000 ORINGS

Jul 09 2009

08/24/2005 15:02:53 O-RINGS ARE FOR WAREHOUSE STOCK,..., SET OP/OQ @ 10/10

1550038054187 Ship Yellow Pod To Cameron - Berwick,

3.00

Corrective Maintenance

Well Control

9.

Corrective Maintenance

Well Control

20 May 2010

Deepwater Horizon

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Work Log: EMPAC WORK ORDER NO : 8705-005707-000 TRACKING

09/11/2005 10:09:12 BILL STRINGFELLOW TRACKING TO SEND YELLOW POD IN AS PER STEVE DONOHUE.

SEND IN TO CAMERON FOR POSSIBLE USE ON THE NAUTLIS LMRP. THIS IS REQUESTED BY STVEVE DONOHUE. SEND TO CAMERON IN BERWICK, LA. AND TO THE ATTENATION OF RUSSELL BOURGOIS.

HYDRAULIC PACKAGE. ALSO THERE ARE FOUR 3/4" LIFTING EYES WITH THE ELECTONICS PACKAGE. EACH PACKAGE IS SHIPPED ON A SHIPPING SKID. THESE SKIDS BELONG TO THE HORIZON. THE ELECTRONICS PACKAGE SKID HAS BEEN MODIFIED SO PILOT HOSES AND FITTINGS DO NOT HAVE TO BE THE COMPLETE POD IS BEING SENT IN TWO SECTIONS. THE ELECTRONICS PACKAGE AND THE REMOVED

ELECTRONICS PACKAGE: ASSEMBLY# 2020708-21-01 SERIAL# 11357281-03 DATE 3/22/00 HYDRAULICS PACKAGE: ASSEMBLY# 2020708-21

ASSEMBLY# 2020708-21 SERIAL # 11376970-2

DATE 5/11/00 EMPAC WORK ORDER NO : 8705-005707-000 SHIDBEN

SHIPPED 09/27/2005 10:29:49

CM 5121-3136

MMR # 05-5121-021

HYDRAULIC PACKAGE. ALSO THERE ARE FOUR 3/4" LIFTING EYES WITH THE ELECTONICS PACKAGE. EACH PACKAGE IS SHIPPED ON A SHIPPING SKID. THESE SKIDS BELONG TO THE HORIZON. THE ELECTRONICS PACKAGE SKID HAS BEEN MODIFIED SO PILOT HOSES AND FITTINGS DO NOT HAVE TO BE REMOVED. THE COMPLETE POD IS BEING SENT IN TWO SECTIONS. THE ELECTRONICS PACKAGE AND THE

ELECTRONICS PACKAGE:
ASSEMBLY # 2020708-21-01
SERIAL # 11357281-03
DATE 3/25/00

HYDRAULICS PACKAGE: ASSEMBLY# 2020708-21 SERIAL # 11376970-2 Deepwater Horizon

20 May 2010

20 May 2010

1/00
51
ũ
DATE
_

Completion Date: 14 October 2005

Job Description			Job Number Craft Job Type	Craft		Total Hours
Created This Work		Order To Replace Minor	1550038052716 Well Control	Well Control	<i>daintenance</i>	12.00
Jul 09 2009	Work Log:	Work Log: EMPAC WORK ORDER NO: 8705-004820-000	R NO : 8705-00482	0-000		

COMPLETE 10/14/2005 11:37:55 INSTALLED ALL NEW R/KS

Completion Date: 11 November 2005

Job Description	Job Number	Craft	Job Type	Total Hours
Connector, Sub Sea, 24 Way Female Pie Co	1550038056659	Well Control	Corrective Maintenance	1.00

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Page:

20 May 2010

EMPAC WORK ORDER NO : 8705-007082-000 LOAD AND SET OP/OQ FOR STOCK 11/10/2005 19:45:20

PART FOR STOCK ONLY DO NOT ADD TO PAGE 4. ONCE OP/OQ HAS BEEN SET PLEASE CLOSE WORK ORDER.

AS PER CAMERON RECOMMENDATION PLEASE ADD STK # 405725

BOM: 87 BOP CONTROL PODS

OP/OP 1/1EMPAC WORK ORDER NO : 8705-007082-000

PRICES AS PER CAMERON

From: Schwartz, Amy [mailto:schwartza@camerondiv.com] ----Original Message----11/11/2005 20:12:35

Sent: Friday, November 11, 2005 2.24 PM To: subsea

Cc: Gaspard, Daniel L. Subject: RE: Price

part number 2197088-01-24 replaces part number 619088-15-14-01 List price \$2,906.00 each, less 20 percent discount for net \$2,324.00 each, Mark

Delivery: 12 to 14 weeks

FOB Katy Texas plant

subject to prior sale

From: subsea [mailto:subsea@dwh.rig.deepwater.com] Sent: Friday, November 11, 2005 6:53 AM

To: Schwartz, Amy Cc: Gaspard, Daniel L.

Subject: Price

Can I please get a price and delivery on a Pie connector? P/N: 619088-15-14-01 Mark Hay

subsea Eng.

Deepwater Horizon

Rig ? 713-232-8262

Fax > 713-232-8268

subsea@dwh.rig.deepwater.com

EMPAC WORK ORDER NO : 8705-007082-000

NEED CARD LOADED FOR

OTY NEEDED IS 2 EA. CONNECTOR, SUB SEA, 24 WAY FEMALE PIE CONNECTOR #6 X 4 CONTACT BOP 12/14/2005 18:25:45

Deepwater Horizon

GLOBAL STK:405725

THIS IS FOR WAREHOUSE STOCK

CONTACT: CAMERON CONTROL

23 December 2005 Completion Date:

Job Description		Job Number Craft	Craft	Job Type	Total Hours
Project - Replacemen	placement Repair Kits For 1	1550038051452 Well Control	Well Control	Corrective Maintenance	2.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8705-004072-000 IN WAREHOUSE 12/14/2005 17:08:44 R/K'S ARE IN THE RUBBER ROOM,,, WILL GET THEM OUT WHEN BOP'S ARE PULLED M. HAYEMPAC WORK ORDER NO : 8705-004072-000 COMPLETE 12/23/2005 23:45:40 COMPLETE 12/23/05 O.MC.	NO : 8705-004072 WILL GET THEM (:-000 OUT WHEN BOP'S	ARE PULLED M. HAYEMPA	C WORK

04 January 2006 Completion Date:

Job Description	Job Number	Craft	Job Type	Total Hours
Sm - Send In Pod Frame To Have It Re-Pai	1550038057789	Well Control	Corrective Maintenance	2.00

EMPAC WORK ORDER NO : 8705-007638-000 PAINT FRAME WHITE Jul 09 2009

12/08/2005 09:42:56 SEND IN POD FRAME TO HAVE IT RE-PAINTED SHOULD HAVE BEEN PAINTED WHITE,, BUT WAS PAINTED BLUE, THERE WILL BE NO CHARGE FOR THISEMPAC WORK ORDER NO : 8705-007638-000

SHIPPED

12/10/2005 16:46:52 CARGO MANIFEST 5121-

SUBSEA POD FRAME, TO BE PAINTED WHITE - FREE OF CHARGE

SHIP TO

50 CONCORD ROAD TESCO

HOUMA, LA. 70360 Al Hebert - Operations Manager Phone (985) 872-6450 Fax (985) 872-9200 EMPAC WORK ORDER NO : 8705-007638-000

COMPLETÉ 01/03/2006 17:39:33

BACK ON RIG,,, INSTALLED ON #2 POD

10 February 2006 Completion Date: Total Hours 10.00 Corrective Maintenance Job Type Well Control Craft EMPAC WORK ORDER NO : 8706-000097-000 1550038059015 Job Number Work Log: EMPAC WORK ORD INSTALL NEW AMF/ KIT12-29-05 02/10/2006 13:13:54 Repair # 2 Pod And Install New Amf/ Dead Job Description Jul 09 2009

AMF/ DEADMAN SYSTEM (BATTERIES) WAS INSTALLED ON THE SEM. UNIT WAS TESTED PER CAMERON PROCEDURE. WORK DONE ON 12-29-05

LABOR

95 MAN HOURS TO INSTALL NEW AMF/ DEADMAN KIT AND TO TEST THE SEM @ 109.00/ HR. TOTAL COST: 17,786.13

21 February 2006 Completion Date:

Total Hours Job Type Craft Job Number Job Description

20 May 2010

Deepwater Horizon

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Deepwater Horizon

1550038060490 The Information On This W O Was On 8706

1.00

Corrective Maintenance

Well Control

EMPAC WORK ORDER NO : 8706-001083-000 INFORMATION FROM 8706-4133 Work Log:

Jul 09 2009

02/20/2006 15:06:11

THE INFORMATION ON THIS W.O. WAS ON 8706-679. THE ACTUAL WORK WAS DONE TO POD # 2 BUT WRITTEN UP ON THE POD # 3 ASSET. BILL STRINGFELLOW

REBUILT (1) ANNULAR REGULATOR FOR POD NO. 3 12/15/05 O. MC.
REBUILT (1) 3/4" VALVE FOR THE LMRP OR WELLHEAD CONNECTOR. 12/16/05 O.MC.
REBUILT (1) 3/4" REGULATOR CHARGE VALVE WITH "PREMIUM" KIT. 12/16/05 O.MC.
REBUILT (1) 3/4" REGULATOR FOR LMRP OR WELLHEAD CONNECTOR 12/18/05 O.MC.
REBUILT (4) 1/4" POD VALVES 12/19/05 O.MC.
REBUILT (3) 1/4" POD VALVES 12/20/05 O.MC.
REBUILT (1) 11/2" VALVE FOR ST LOCK. 12/22/05 O.MC.

05 April 2006 Completion Date:

Total Hours 02/16/2006 11:19:40 SEND IN 3 EACH SOLENOID FOR INSPECTION,, SEND SAME TO DAN REUDELHUBEREMPAC WORK ORDER Corrective Maintenance Job Type Well Control Craf EMPAC WORK ORDER NO : 8706-001011-000 1550038060336 Job Number NO: 8706-001011-000 SENT IN 02/18/2006 10:09:52 SOLENOIDS SENT IN ON C/M 5121-3369 Send In 3 Each Solenoid'S For Inspection Work Log: EMPAC 3 EACH SOLENOID Job Description Jul 09 2009

06 April 2006 Completion Date:

Job Description	Job Number	Craft	Job Type	Total Hours
Send In High Pressure Piping To Be Repai	1550038053475	Well Control	faintenance	

Jul 09 2009

Work Log: EMPAC WORK ORDER NO: 8705-005368-000 HIGH PRESSURE NIPPLE 08/24/2005 10:14:43 SEND IN HIGH PRESSURE PIPING TO BE REPAIRED., TO STEVE DONOHUE P/N: P55397

ATTN: STEVE DONOHUE TRANSOCEAN SUITE 400 1311 BROADFIELD BLVD. HOUSTON TX. 77084

EMPAC WORK ORDER NO : 8705-005368-000

SHIPPED

08/26/2005 08:43:29 CM 5121-3111 FLANGE STUB, 4 BOLT FLANGE X 1-1/2" THREADED UNION, STAINLESS STEEL

FOR BOP CONTROL PODS

W/O 5368

SHIP TO STEVE DONAHUE

EMPAC WORK ORDER NO: 8705-005368-000

LOST

04/06/2006 17:39:01 NIPPLE WAS LOST????? 4-6-06 M.HAY

26 April 2006 Completion Date: Total Hours 1.00 Corrective Maintenance Job Type Well Control Craft 1550038061018 Job Number Sm- 3 Each Section Of Grating For Contr Job Description

Deepwater Horizon

08 Jo 199 Page:

08 fo 19

Work Log: EMPAC WORK ORDER NO : 8706-001503-000 3 EACH SECTION OF GRATING 03/1/2006 11:25:14 Jul 09 2009

GRATING, YELLOW CORVEX FIRE RETARDANT, 1" THICK X 1-1/2" SQUARE MESH, SLIP RESISTANT MENISCUS SURFACE, 3' 9" WIDE X 6' 0"" LONG

QTY NEEDED 3 EACH SM00321087 FOR CAMERON CONTROL PODS UNIT COST: \$324.00

VENDOR: WELL SERVICE 337-364-3025

EMPAC WORK ORDER NO : 8706-001503-000 ITEMS HERE 04/03/2006 00:43:00 GRATING ON DECK. ARRIVED 4/1/06 MAC

09 May 2006 Completion Date:

Job Description		Job Number Craft	Craft	Job Type	Total Hours
Rebuild Spare 1 1/2	o 11/2" Regulator On Shelf	1550038063024 Well Control	Well Control	Corrective Maintenance	4.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8706-002808-000	R NO : 8706-00280	8-000		,
	WORK COMPLETE				
	05/09/2006 22:02:29				
	WORK COMPLETE, 05/09/06				

26 June 2006 Completion Date:

Job Description			Job Number Craft	Craft	Job Type	Total Hours
Replace Used Filte	d Filters On Rigid Conduit Ma		1550038063729 Well Control	Well Control	Corrective Maintenance	3.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8706-003172-000	WORK ORDER NO	3 : 8706-003172	-000		
	REPLACED ALL FILTERS	ERS				
	06/26/2006 12:40:22					
	REPLACED ALL FILTERS ON RIGID CONDUIT AND HOT LINE 6-9-06 B.STRINGFELLOW	ERS ON RIGID CO	UNDUIT AND HC	T LINE 6-9-06	3.STRINGFELLOW	

20 May: 2010

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Deepwater Horizon

Completion Date: 19 July 2006

Job Description		Job Number	Craft	Job Type	Total Hours
Replace Cameron Pilot	n Pilot Regulator With A G	1550038060555 Well Control	Well Control	Corrective Maintenance	1.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8706-001134-000 PILOT REGULATOR 07/19/2006 14:24:45 BILL STRINGFELLOW	NO : 8706-001134	000-1		
	NEED TO ORDER NEW GILMORE REGULATOR FOR POD. THIS IS TO BE CHARGED TO 2006 BOP MAINTENANCE BUDGET. THIS IS PER JOHN KEETON.	EGULATOR FOR P ER JOHN KEETON.	OD. THIS IS TO B	E CHARGED TO 2006 BOP	
	TO BE ORDERED FROM: BUXTON INTEREST INC. 9826 WHITHORN DRIVE HOUSTON, TX. 77095				

Completion Date: 14 September 2006

Replace Used Filter	Filters On Rigid Conduit Ma	1550038066649 Well Control	Well Control	Corrective Maintenance	3.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8706-005019-000 COMPLETE	ER NO : 8706-00501	000-6		
	REPLACE OLD FILTERS IN RIGID CONDUIT AND HOT LINE ON LMRP. M.HAY 8-20-06	CONDUIT AND HOT	LINE ON LMRP.	M.HAY 8-20-06	

Completion Date: 09 November 2006

Job Description	Job Number Cr	Craft	Job Type	Total Hours
Si - Re- Bill To "Bp" Need Cameron Servi		Well Control	Corrective Maintenance	14.00

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Deepwater Horizon

Jul 09 2009

Work Log: EMPAC WORK ORDER NO : 8706-004398-000 SERVICE HAND 07/26/2006 15:56:23 RE- BILL TO "BP" NEED CAMERON SERVICE HAND TO ASSIST IN DISSEMBLE OF BOTH ANNULAR

OPERATORS AND TROUBLE SHOOT COIL FAULTS AND POD MIS-MATCH ON BOTH PODS. RE-BILL PER JOHN KEETON

08 December 2006 Completion Date:

Job Description		Job Number	Craft	Job Type	Total Hours
Rig Move-Mux Pod	po _c	1550038063805 Well Control	Well Control	PM	6.00
Jul 09 2009	Work Log:	EMPAC WORK ORDER NO : 8706-003244-000	4-000		

REPAIR 06/08/2006 13:46:53

BILL STRINGFELLOW

THE LMRP CONNECTOR REGULATOR WAS FOUND TO BE LEAKING DURING INSPECTION OF THE POD. INSTALLED CAMERON REPAIR KIT # 656002-08-00-99.

07 January 2007

Completion Date:

Total Hours Corrective Maintenance Job Type Well Control Craft 1550038067102 Job Number Rebuild Valves On #2 Pod Job Description

EMPAC WORK ORDER NO : 8706-005269-000 Work Log: EN VALVE REPAIR Jul 09 2009

09/02/2006 18:00:01 BILL STRINGFELLOW

REBUILD 1 1/2" SLIDE VALVE FOR THE ST LOCK AND THE ANNULAR, REBUILD THE 3/4" REGULATOR FOR THE LMRP CONNECTOR. NEED TO ORDER THE FOLLOWING PARTS TO REPAIR ONE OF THE 1 1/2" VALVES

\$1,077.80 \$1,439.20 CAP SLIDE SPRING 103200000004876

\$439.20 \$928.80 1540000000000061

REPAIR KIT 30000000001534

Completion Date: 16 January 2007

Job Description		Job Number Craft	Craft	Job Type	Total Hours
Rebuild Valves Off Pod #2	Off Pod #2	1550038071169 Well Control	Well Control	Corrective Maintenance	4.00
Jul 09 2009	Work Log: EMP WORK COMPLET 01/16/2007 04:03:0 REBUILT 1 1/2" V, MOVE. 01/12/07 O.MC.	Work Log: EMPAC WORK ORDER NO: 8707-000232-000 WORK COMPLETE 01/16/2007 04:03:04 REBUILT 11/2" VALVE FOR THE "ST" LOCK FUNCTION THAT WAS PULLED OFF DURING THE LAST RIG MOVE. 01/12/07 O.MC.	2-000 N THAT WAS PULL	ED OFF DURING THE LAST	RIG

Completion Date: 04 February 2007

Job Description		Job Number	Craft	Joh Type	Total Hours
SI -Cameron Servic	Service Hand To Repair Pod C	1550038070383 Well Control	Well Control	Corrective Maintenance	32.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8706-007391-000 COMPLETE	8706-00739	000-1		
	01/07/2007 07:59:14 CAMERON SERVICE HAND CAME OUT TO RIG AND REPLACE SEM IN # 2 POD WITH THE SEM OUT OF #3	OUT TO RIG AND R	EPLACE SEM IN#	12 POD WITH THE SEM OUT	OF #3
	POD 12-30-06EMPAC WORK ORDER NO : 8706-007391-000 CAMERON SERVICE	R NO : 8706-00739	1-000		
	12/18/2006 16:31:56 1 FACH CAMEDON SERVICE HANDS FOR DERAID OF COIL FALILTS AND DON MISMATCH FOR THIS RIG		NA ST III A B HOO	THIS MATCH FOR THIS	519.2
	MOVE.		COIL FAUL IS AIN		
	EST COST IS \$1800 A DAY FOR THE SERVICE HAND	HE SERVICE HAND	EST 5 DAYS OF	: SERVICE	

Completion Date: 20 February 2007

Job Description	Job Number	Craft	Job Type	Total Hours
Accumulator Removed From This Pod Needs	1550038071969	Well Control	Corrective Maintenance	2.00

29 May: 2010

Deepwater Horizon

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Jul 09 2009

Work Log: EMPAC WORK ORDER NO: 8707-000741-000 WORK COMPLETE 02/20/2007 03:43:22 PULLED OLD BLADDER OUT AND CLEANED UP. INSTALLED NEW BLADDER. 02/20/07 O.MC.

27 February 2007

Completion Date:

Job Description		Job Number Craft	Craft	Job Type	Total Hours	1
Replace Bad Anodes On Pod	des On Pod	1550038071700 Well Control	Well Control	Corrective Maintenance	1.00	
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8707-000549-000 CHARGE TO WO# 1092 02/27/2007 15:38:27 ANODES CANCELLED ON THIS WORK ORDER AND CHARGED TO WORK ORDER # 1092 IN ORDER TO KEEP ALL POD COSTS ON ONE WORK ORDER - DGATESEMPAC WORK ORDER NO: 8707-000549-000 ANODES FOR # 2 POD 01/27/2007 14:14:11 BILL STRINGFELLOW	NO : 8707-000549 RK ORDER AND CH	-000 HARGED TO WOI IPAC WORK ORE	RK ORDER # 1092 IN ORDER ⁻)ER NO : 8707-000549-000	то кеер	
	REPLACE BAD ANODES ON POD.					

11 March 2007 Completion Date:

Craft
ob Number
Job Number
Job Description
Job

Job Description		Job Number Craft	Craft	Job Type	Total Hours
365 Day-Mux Pod		1550038068064 Well Control	Well Control	PM	2.00
Jul 09 2009	Work LOG: EMPAC WORK ORDER NO : 8706-005927-000 COMPLETE	VO : 8706-00592	7-000		
	03/11/2007 16:40:02 MADE ALL CHECKS				

1550038072361 Well Control EMPAC WORK ORDER NO : 8707-001073-000 Rig Move-Mux Pod Jul 09 2009

9.00

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Work Log: EMPAC WORK ORDER NO :: COMPLETE 03/11/2007 09:21:23 MADE ALL CHECKS AND TESTED SAME...

Completion Date: 29 March 2007

Job Description		Job Number	Craft	Job Type	Total Hours
Sm- 3 Each Section	ction Of Grating For Contr	1550038071765 Well Control	Well Control	Corrective Maintenance	3.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8707-000610-000 RECEIVED 03/04/2007 18:23:43 CM 5121-3856 QUAN: 3 LOCATION: IN BLUE TOI CARGO BOX.	R NO : 8707-00061	D-000 RGO BOX.		
	GRATING, YELLOW CORVEX FIRE RETARDANT, 1" THICK X 1-1/2" SQUARE MESH, SLIP RESISTANT MENISCUS SURFACE, 3' 9 INCHES WIDE X 6.0' LONG.	RETARDANT, 1" TI WIDE X 6.0' LONG	IICK X 1-1/2" SQU	ARE MESH, SLIP RESISTAN	⊢
	EMPAC WORK ORDER NO : 8707-000610-000 GRATING FOR CONTROL PODS 02/03/2007 09:24:18 2 EA. GREASE FITTINGS STK: 55256	-000610-000 256			

QTY NEEDED 3 EACH SM00321087 FOR CAMERON CONTROL PODS UNIT COST \$324.00

GRATING, YELLOW CORVEX FIRE RETARDANT, 1" THICK X 1-1/2" SQUARE MESH, SLIP RESISTANT MENISCUS SURFACE, 3' 9" WIDE X 6' 0"" LONG

VENDOR: WELL SERVICE 337-364-3025 EMPAC WORK ORDER NO : 8707-000610-000 RECEIVED GRATING 03/18/2007 18:39:20 RECEIVED O.MC.

LOCATED IN THE BOP HOUSE.

Completion Date: 28 April 2007

Job Description	Joh Number	Craft	Job Type	Total Hours
	1550038074489 W	Well Control	ance	2.00

20 May 2010

Deepwater Horizon

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Page:

Job Description

Jul 09 2009

Completion Date:

Total Hours

Corrective Maintenance

Job Type

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<u>2</u>

103200000004878

Total Hours

Job Type

₹

Well Control

Rig Move-Mux Pod

Jul 09 2009

Job Description

Completion Date:

Craft

EMPAC WORK ORDER NO : 8707-002232-000

04/28/2007 16:12:21 CHANGED FILTERS 4-25-07

Wark Log: E

Jul 09 2009

2.00

Deepwater Horizon

04/02/2007 13:33:57 RUBBER GROMMENTS ARE IN SS SHOP... M.HAY

20 May: 2010

22 September 2007 Completion Date:

Job Description		Job Number	Craft	Job Type	Total Hours
1825 Day-Mux Pod		1550038063392 Well Control	Well Control	PM	12.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8706-003017-000 WORK COMPLETE 06/10/2007 13:03:25 ALL THE VALVES HAVE BEEN REBUILT. ALL THE SOLINOIDS HAVE BEEN REBUILT. ALL THE SOLINOIDS HAVE BEEN REBUILT. CAMERON WENT THROUGH ALL THE MUX PACKAGE. 2005. STINGER SEALS GET CHANGED EACH TIME POD IS ON DECK. ALL VALVES ARE TESTED EACH TIME POD IS ON DECK. ALL VALVES ARE TESTED EACH TIME POD IS ON DECK. ALL VALVES ARE TESTED EACH TIME POD IS ON DECK. ACCUMULATOR PRECHARGE IS CHECKED AND ADJUSTED EACH TIME POD IS ON DECK. SEALS CHANGED IN ALL PBOF CABLES THAT GET DISCONNECTED. THEN TESTED. SPM POCKETS DO NOT APPLY. ANNODES ARE CHANGED AS REQUIRED. PIE CONNECTOR WIRES ARE NEVER DISCONNECTED UNLESS THE PIE CONNECTOR IS BEING CHANGED.	D: 8706-003017- T. MUX PACKAGE: MUX PADD IS ON DECKED AND ADJUS CKED AND ADJUS STHAT GET DISCONNECTED	2005. L DECK. STED EACH TIME CONNECTED. THUNESS THE PII	: POD IS ON DECK. IEN TESTED. E CONNECTOR IS BEING CHAN	GED.

Repair Kit For 3/4" Regulator For Lmrp C

Corrective Maintenance

Well Control

1550038068609

20 May: 2010

Jul 09 2009

EMPAC WORK ORDER NO : 8706-006319-000

Work Log: EMPAC WUR! ORDER RETAINING RING.

10/26/2006 04:36:48

NEED CARD FOR RETAINING RING. PART NO. 703099 CAMERON. QTY. (1) 10/26/06 O.MC.EMPAC WORK ORDER NO : 8706-006319-000

CARD REQUESTED

11/16/2006 07:44:10

CARD REQUEST NUMBER 17381 EMPAC WORK ORDER NO 8706-006319-000

INSTALL REPAIR KIT 11/19/2006 04:05:34 INSTALLED NEW REPAIR KIT IN 3/4" REGULATOR REMOVED FROM # 2 POD. 10-22-06

INSTALLED NEW REPAIR KIT IN 1" PREMIUM VALVE FOR THE ACCUMULATOR CHARGE. #2185611-01-99. THIS VALVE

IS MISSING ONE OF THE POPPET RETAINERS. WILL ORDER ONE TO REPLACE IT. 10/26/06 O.MC.

INSTALLED ANOTHER REPAIR KIT IN (1) MORE 3/4" REGULATOR. ON SHELF FOR SPARE. 11/19/06 O.MC.

EMPAC WORK ORDER NO: 8706-0063/9-000 ORDER CORRECT RETAINING RING

03/29/2007 05:16:32

REQUESTING A CARD FOR PART NO. A01 2185232-01 RETAINER, PISTON, DRG VALVE, 1" & 3/4"

1.563/1.556 O.D

CAMERON, QUANITY (1). 03/16/07 O.MC. EMPAC WORK ORDER NO : 8706-006319-000 STOCK CARD REQUEST

06/13/2007 19:48:59

SCR 18941

ASHLEY DEAN

23 November 2007 Completion Date:

Job Description			Job Number Craft	Craft	Job Type	Total Hours
Receptacle & O-Rin	-Rings , E-Co	ngs , E-Connector, For	1550038080401 Well Control	Well Control	Corrective Maintenance	13.00
Jul 09 2009	Work Log:	Work Log: EMPAC WORK ORDER NO : 8707-005929-000	326500-7078 : C	000-6		

Work Log: EMPAC WORK ORDER NO : 8707-005929-000 WORK COMPETE 11/21/2007 10:13:52

CAMERON HAND CHANGED OUT (51) E- CONNECTORS ON THE #2 POD 11/06/07 O.MC.

26 November 2007 Completion Date: Total Hours Job Type Craft Job Number Job Description

28 May: 2010

Deepwater Horizon

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Rebuild 1 1/2'	Rebuild 1 1/2" Valve For Annular Close	1550038081352	Well Control	Corrective Maintenance	0.00
ابر 09 2009	Work Log: EMPAC WORK ORDER NO : 8707-006601-000 NEED CARD 11/26/2007 08:12:55 QTY. 1 PART NO. 112562-01 B01 PILOT ED POD VALVE.	R NO : 8707-006601 TED POD VALVE.	000-		
	CAMERON				
Completion Date:	03 January 2008				
Job Description		Job Number	Craft	Job Type	Total Hours
730 Day-Mux Pod	Pod	1550038079801	Well Control	PM	4.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8707-005526-000 COMPLETE 01/03/2008 16:00:35 MADE ALL CHECKS AND REPLACE ANY LEAKING VALVES.	R NO : 8707-005526 E ANY LEAKING VAL	000 VES.		
Completion Date:	09 March 2008				
Job Description		Job Number	Craft	Job Type	Total Hours
SI- Cameron (SI- Cameron Service Hand To Make Repairs	1550038080818	Well Control	Corrective Maintenance	38.00

20 May: 2010

Jul 09 2009

Work Log: EMPAC WORK ORDER NO: 8707-006247-000
CAMERON SERVICE HAND
11/10/2007 17:07:44
EXPECTED TO NEED: ONE SERVICE HAND FOR REPAIRS TO YELLOW "B" SEM
2 DAYS AT \$1800.00 PER DAY.
PLUS EXPENSES.

CONTACT

Service Manager Carter Erwin

Drilling Service Drilling Systems

Cameron

6650 Bingle Rd Houston, TX 77092 Tel 713.423.8904 Cel 281.799.7564 Fax 713.423.8991

Carter.Erwin@c-a-m.com

EMPAC WORK ORDER NO : 8707-006247-000 WORK COMPLETE 11/21/2007 09:56:00 FOUND LOOSE WIRE IN THE CCU.

07 June 2008 Completion Date:

Job Description	Job Number	Craft	Job Number Craft Job Type Total Hours	Total Hours
Replacing Outdated Rubber Goods	1550038083715	Materials	Other Maintenance	1.00

1708-000956-000	
æ	
9	
EMPAC WORK ORDER NO	
WORK	
EMPAC	SODS.
Work Log:	RUBBER GOODS

Jul 09 2009

02/18/2008 18:29:03 RUBBER GOODS ORDERED TO REPLACE ITEM ON SHELF THAT ARE OUT OF DATE:

2 EA. ICN: 112188 TO REPLACE O-RINGS AS PART OF ICN: 417270 1 EA. ICN: 1482327 TO REPLACE O-RING AS PART OF ICN: 427640 1 EA. ICN: 1482327 TO REPLACE O-RING AS PART OF ICN: 427640 1 EA. ICN 1021-1742 TO REPLACE O-RING AS PART OF ICN: 30189 1 EA. ICN: 1032-4453 TO REPLACE O-RING AS PART OF ICN: 427640

JCLEMENTS

11 July 2008 Completion Date:

Job Description		Job Number	Craft	Job Type	Total Hours
365 Day-Mux Pod		1550038084222 Well Control	Well Control	PM	1.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8708-001319-000 NOT IN SERVICE 07/11/2008 10:17:29	IO : 8708-00131	000-6		
	THIS POD IS OUT OF SERVICE AT TH MUX PACKAGE IS AT D&D FOR REBU	IIS TIME. JILDING SOLINO	D FLUID ENDS. (77/11/08	
Rig Move-Mux Pod		1550038084450 Well Control	Well Control	PM	1.00
Jul 09 2009	Work Log: EMPAC WORK ORDER N	10 : 8708-00150	4-000		
	07/11/2008 07:46:10				
-	THIS POD IS STILL OUT OF SERVICE. MUX PACKAGE IS AT D&D HAVEING THE SOLINOID FLUID ENDS REBUILT AND TESTED.	THE SOLINOID F	LUID ENDS REBI	JILT AND TESTED.	
	U/11/08 O.M.C.				

07 January 2009 Completion Date:

Job Number Craft Job Type Total Hours	1550038092354 Well Control PM 3.00
Job Description	Rig Move-Mux Pod

20 May 2010

Deepwater Horizon

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Work Log: EMPAC WORK ORDER NO: 8708-006839-000 COMPLETE 01/07/2009 14:29:44 FUNCTIONED ALL VALVES AND CHECKED FOR LEAKS... ALL OK., 1-1-09 M.HAY Jul 09 2009

Completion Date: 25 January 2009

		Job Number Craft	Craft	Job Type	Total Hours
Change Coding Fro	g From 2008 Project To 2009	1550038093601 Materials	Materials	Corrective Maintenance	0.50
Jul 09 2009	Work Log: EMPAC WORK ORDER NO : 8709-000540-000 DATESTART: 01/24/2009 00:00:00,000000 DATECOMPLETE: 01/25/2009 23:59:59.000000 No Work Reported in EMPAC	ER NO : 8709-00054 10.000000 :59:59.000000	000-0		

Completion Date: 14 February 2009

Job Description	Job Number Craft	Craft	Job Type Total Hours	Total Hours
Pod #2 - Additional Work To Make Pod Rea	1550038090327 Well Control	Well Control	Corrective Maintenance	10.00

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EMPAC WORK ORDER NO : 8708-005324-000 Work Log: EMPAC \
INSTALLED ANODES Jul 09 2009

11/25/2008 13:48:29

INSTALLED NEW ANODES ON POD. 11/25/08 WORK PERFORMED BY GABE GARDNER. O.MC.EMPAC WORK ORDER NO : 8708-005324-000

ACCUMULATORS PAINTED

11/25/2008 13:52:32

ALL ACCUMULATORS PULLED OFF AND PAINTED. CHANGED ONE THAT HAD A RUPTURED BLADDER.

O.MC. EMPAC WORK ORDER NO : 8708-005324-000 CHANGED ALL STINGER SEALS

11/25/2008 14:03:04

ALL STINGER SEALS CHANGED ON BOTH THE STACK STINGER AND THE LMRP STINGER. WORK PERFORMED BY GABE GARDNER. O.MC. 10/02/08 EMPAC WORK ORDER NO : 8708-005324-000

11/25/2008 14:02:05 INSTALLED KIT

INSTALLED KIT IN ANNULAR REGULATOR THAT CAME OFF YELLOW POD ON STACK AND INSTALLED ON SPARE POD. WORK PERFORMED BY JAY ODENWALD. 11/07/08 EMPAC WORK ORDER NO:

8708-005324-000

NEW WORK ORDER FOR SPARE POD 02/14/2009 13:26:35

NEW WORK ORDER #09-874 FOR ANY ADDITIONAL WORK TO BE PERFORMED ON THIS POD. THIS IS ACTUALLY POD #3. O. MC. 02/14/09

30 March 2009 Completion Date:

Job Description	Job Number Craft	Craft	Job Type	Total Hours
Rig Move-Mux Pod		550038094677 Well Control	Wd.	4.00
Jul 09 2009	Work Log: EMPAC WORK ORDER NO: 8709-001239-000 COMPLETE 03/30/2009 15:33:40 DID FUNCTION TEST ON POD	239-000		

22 May 2009 Completion Date:

Job Description	Job Number	Craft	Job Number Craft Job Type	Total Hours
ector For Pod Flow	1550038093756	Well Control	Corrective Maintenance	1.00

Nork Log:

EMPAC WORK ORDER NO : 8709-000590-000

NEED CARD MADE 02/02/2009 16:52:27

1-1/2" TUBE SOCKET WELD CONNECTOR, FEMALE NPT 1-1/2" BY OTY NEEDED IS 4EACH

P/N: 2711408-24

Placed By : MIKE FRY

Valid From: JAN 26 2009 /alid To : FEB 16 2009 DELIVERY TIME WILL BE 3-4 WEEKS FROM APPROVEL OF P.O.

tem Material Number. Extended Qty UM Unit Price Extended Price Description Weight USD USD

2711408-24 1 EA 570.40 570.40 CONNECTOR, FEMALE NPT 1-1/2" BY 1-1/2" TUBE SOCKET WELD

IST PRICE: 713.00

DISCOUNT: 20 %

Price Summary:

Total Price: 570.40 USD

CAMERON RESERVES THE RIGHT TO REVIEW QUOTED PRICES SHOULD THERE BE AN INCREASE BY MORE THAN 2% AS THE RESULT OF THE STEEL PRICE ADJUSTMENT FORMULA. THE FORMULA Fotal Quotation Value: 570.40 USD

REFLECTS CHANGES TO MEPS-WORLD CARBON STEEL AND MEPS-WORLD STAINLESS STEEL PRODUCT PRICES, INDEX NAME HOT ROLLED PLATE, PUBLISHED BY MEPS INTERNATIONAL, UK. URL ADDRESS IS WWW.MEPS.CO.UK. THE FORMULA TO BE USED IN THIS ASSESSMENT IS INCLUDED WITHIN

FHESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ATTACHMENT (X)

Sold To: 20002190 Repair Quote

TRANSOCEAN OFFSHORE DEEPWATER DRILLING INC

PO Box 4255

Document Number: 5000/T51/20507821 HOUSTON TX 77210-4255

Date Issued: JAN 26 2009 Page: 1 of 2

Terms and Conditions As Attached/Included Payment Terms: Net 30 days

DRILLING SYSTEMS Thomas Road Orders Deepwater Horizon

TRN-INV-00034301

Sep 23 2009	Work Log: SEND SEM REMOVED FROM YELLOW POD LAST RIG MOVE. ON THE START UP OF KODIAK WELL 727 #2
	CAMERON DRILLING SYSTEMS
	6650 Bingle Road Houston Texas 77092 Attn: Stan Jarrett
Oct 08 2009	Work Log: Parts Requested from ICS:
Oct 09 2009	Work Log: 20 pie connectors on this Job need to be delivered to Dana Burkett at 1311 Broadfield Blvd. Attn. Dana Burkett Houston, Tx 77084
Oct 22 2009	Work Log: Parts Requested from ICS:
Oct 27 2009	Work Log: Parts Requested from ICS:
Nov 20 2009	Work Log: Parts Requested from ICS:
Nov 20 2009	Work Log: Recieved (1) 12 pin male Connector ICN # 10010449 from warehouse and sent to Cameron, 6550 Bingle Rd. Houston Tx 77092 attn. Stan Jarrett RGR Dept. O.Mc. 11/20/09
Nav 20 2009	Work Log: Parts Requested from ICS:
Feb 25 2010	Work Log: THIS SEM WAS REMOVE FROM POD #2. WHICH IS IN THE YELLOW SPOT ON THE STACK. THE SEM IN IT NOW IS FOR #1 POD WHICH IS IN THE TEST STAND. O.MC. 02/24/10
Apr 13 2010	Work Log: SEM IS BACK AND IS INSTALLED IN THE SPARE POD.

on the second			130111111111111111111111111111111111111	Clare	ann i ype	total mouts
PBOF CABLES AND 1"	D 1" HOSE FOR PODS		1550038100195	Well Control	Corrective Maintenance	2.00
Sep 26 2009	Work Log: Par	Parts Requested from ICS:				
Sep 25 2009	Work Log: ISSUI SS SHOP.: M.HAY	UED OUT PBOF CAB	LES, PER JAME(S KENT., THE PB(ISSUED OUT PBOF CABLES, PER JAMES KENT,, THE PBOF CABLES WILL BE HANGING UP IN I.HAY	NG UP IN
Completion Date: 07 October	tober 2009					
Job Description	·	:	Job Number	Craft	Job Type	Total Hours
365 Day-Mux Pod			1550038097561	Well Control	PA	36.00
Oct 07 2009	Work Log: EMI UNABLE TO PEF 07/06/2009 13:16 UNABLE TO PEF	Work Log: EMPAC WORK ORDER NO : 8709-003536-000 UNABLE TO PERFORM AT THIS TIME 07/06/2009 13:16:15 UNABLE TO PERFORM AT THIS TIME DUE TO WELL DRILL	40 : 8709-003536 E E DUE TO WELL D	S-000 PRILLING OPERAT	Work Log: EMPAC WORK ORDER NO: 8709-003536-000 UNABLE TO PERFORM AT THIS TIME 07/06/2009 13:16:15 UNABLE TO PERFORM AT THIS TIME DUE TO WELL DRILLING OPERATIONS. O.MC. 07/06/09	
Oct 07 2009	Work Log: SEM changed 05 inclinometers checked on rig n PBOF cables all checked and all annodes changed 09/09/09	Work Log: SEM changed 09/09/09 Batteries in this SEM were changed 11/04/07. inclinometers checked on rig move 09/30/09 PBOF cables all checked and tested 09/04/9 all annodes changed 09/09/09	atteries in this SEP 10/09 704/9	M were changed 1	1/04/07.	
	changed between the date: 1/a" hoses inside pod betwee 1/4" pod valve for ROV upper and lower annular re Casing Shear Ram valve Upper annular Close vlave Wellhead Connedtor Sec. Solenoid #19 upper outer	changed between the dates 09/04/09 and 09/30/09 1" hoses inside pod between manifolds changed 1/4" pod valve for ROV upper and lower annular regulators Casing Shear Ram valve Upper annular close vlave Wellhead Connedtor Sec. Unlatch valve Solenoid #19 upper outer choke	changed			

03 January 2010 Completion Date:

Job Description		Job Number Craft		Job Type	Total Hours
SPM03-BOP C	SPM03-BOP Control Pod-Service	vice 1550038104802 Well Control	Well Control	PM	1.00
Jan 03 2010	Work Log:	irk Log: Can't perform this pm due to Yellow pod on stack.	stack.		
npletion Date:	25 January 2010				

Comple

POD VALVE PART 1550038101468 Well Control Corrective Maintenance 5.00 Oct 21 2009 Work Log: Parts Requested from ICS: ADDED CYLINDER, PILOT., FOR THE ST-LOCK VALVE ON THIS JOB: M.HAY P/N: 112562-01 BO1 BO1 30 2009 Work Log: Parts Requested from ICS: Nov 02 2009 Work Log: Parts Requested from ICS: BO1 30 2009 Work Log: Parts Requested from ICS:	Job Description			Job Number	Craft	Job Type	Total Hours
	POD VALVE PART			1550038101468	Well Control	Corrective Maintenance	5.00
	Oct 21 2009	Work Log:	Parts Requested from ICS				
		Work Log.	Parts Requested from ICS				
		Work Log:	ADDED CYLINDER, PILO	T., FOR THE ST-L	OCK VALVE ON	FHIS JOB. M.HAY P/N: 11256	52 - 01 BO1
		Work Log:	Parts Requested from ICS				

05 February 2010 Completion Date:

ann Describeron			Job Number Craft	Craft	Job Type	Total Hours
NEED O-RINGS	Ĕ	OR CAMERON SOLENOIDS	1550038106425 Well Control	Well Control	Corrective Maintenance	9.00
Jan 31 2010	Work Log:	Work Log: Parts Requested from ICS:	Š			
Jan 31 2010	Work Log:	Work Log: REPLACING DEFECTIVE SOLENOIDS ON YELLOW POD.	'E SOLENOIDS ON	YELLOW POD.		

07 February 2010 Completion Date:

Total Hours	
Job Type	
Craft	
Job Number	
Job Description	

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Oct 13 2009	Work Log:	Parts Requested from ICS:	ij			
Oct 13 2009	Work Log:	Parts Requested from ICS:	Ś			
Oct 14 2009	Work Log:	Parts Requested from ICS:	Š			
Nov 25 2009	Work Log:	Parts Requested from ICS	įς			
Completion Date:	17 March 2010					
Job Description			Job Number	Craft	Job Type	Total Hours
REPAIR KIT	REPAIR KIT FOR 1/4" ROV POD VALVE	DD VALVE Parts Requested from ICS:	1550038108387 :S;	Well Control	Corrective Maintenance	2.00
Completion Date:	19 March 2010					
Job Description			Job Number	Craft	Job Type	Total Hours
SPM02-BOP	SPM02-BOP Control Pod-Service	vice	1550038108049	Well Control	PM	1.00
Mar 19 2010	Work Log:	All work was done by car	meron when sem w	ent in to be repaire	Work Log: All work was done by cameron when sem went in to be repaired. We have the official paperwork in file	ork in file

2 April 2010	ALVA HIGA C
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1040	Jate.
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40.	110110
-	<u></u>

Job Description	Job Number	Craft	Job Type	Total Hours
SEND IN DEFECTIVE SEM REMOVED FROM YEL 15	1550038100064	Well Control	Corrective Maintenance	1.00

Sep 23 2009	Work Log: SEND SEM REMOVED FROM YELLOW POD LAST RIG MOVE. ON THE START UP OF KODIAK WELL 727#2
	CAMERON DRILLING SYSTEMS
	6650 Bingle Road Houston Texas 77092 Attn: Stan Jarrett
Oct 08 2009	Work Log: Parts Requested from ICS:
Oct 09 2009	Work Log: 20 pie connectors on this Job need to be delivered to Dana Burkett at 1311 Broadfield Blvd. Attn. Dana Burkett Houston, Tx 77084
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Nov 20 2009	Work Log: Parts Requested from ICS:
Feb 25 2010	Work Log: THIS SEM WAS REMOVE FROM POD #2. WHICH IS IN THE YELLOW SPOT ON THE STACK. THE SEM IN IT NOW IS FOR #1 POD WHICH IS IN THE TEST STAND. O.MC. 02/24/10
Apr 13 2010	Work Log: SEM IS BACK AND IS INSTALLED IN THE SPARE POD.