

Cameron

IRON WORKS DE FRANCE

SIÈGE SOCIAL ET USINE
PLAINE SAINT-PIERRE - B. P. 482 34501 BÉZIERS CEDEX

TÉL. : (67) 76-80-00
TELEX : N° 490988
CABLES : CAMIRON BEZIE
R. C. BÉZIERS 60 B 33

S. A. CAPITAL 8.542.000 F.
SIRET :
2401-582122230-00029

ORIGINAL

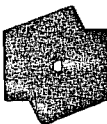
(VENDOR) DOCUMENT NO: SK.32015.02

DESCRIPTION: PARTS LIST FOR B.O.P. TYPE 'D'

SPACE RESERVED FOR KEBS CERTIFICATION STAMP

TITLE: HEIMDAL DEVELOPMENT HMP1
EQUIP. DESCRIP: BOP STACK 18³/₄"
TAG NUMBER: 1AA 121
PURCHASE ORDER NO: 8825.4020
KEBS DOCUMENT NO: D005/2/2
SDRL CODE: BA - KE

ACCEPTED AS CERTIFIED
ACCEPTANCE DOES NOT RELIEVE
VENDOR OF HIS CONTRACTUAL
OBLIGATION
BY *J. Andrieu* Date 10.2.84
elf aquitaine norge a/s

 **elf aquitaine norge a/s**
p.o. box 188 - 4001 STAVANGER - NORWAY

Helmdal Development

EAM Contr No								
KE Contr No								
B&R Contr No								
Sofr Contr No								
	Rev	Date	Description	Appr	QA	Client		

 **Kvaerner Engineering A.S**
P.O.Box 222 - 1324 LYSAKER - Norway

Subcontractors:
Brown & Root (U.K.) Ltd. and Sofresid

Made by/Date	Proj Appr /Date	Title		
Chk d/Date	QA Appr /Date			
	Client QA /Date			
Scale	Client Appr /Date	Drawing No	Rev.	Sheet of

TL 63

A S TORR...

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H. O. P. TYPE D POUR SERVICE H2S

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>MATIERE</u>
1	CORPS BODY	10 CD 9-10 - 217 - 235 HBN
2	CHAPEAU BRIDE TOP	10 CD 9-10 - 217 - 235 HBN
3	PISTON PISTON	25 CD 4 S - 207 - 235 HBN
4	CYLINDRE INTERIEUR INNER CYLINDER HEAD	25 CD 4 S - 207 - 235 HBN
5	CYLINDRE EXTERIEUR OUTER CYLINDER HEAD	25 CD 4 S - 207 - 235 HBN
6	PLAQUE DE POUSSEE PUSHER PLATE	25 CD 4 S - 207 - 235 HBN
7	JOINT EXT. DE COMPRESSION(Donut) DONUT	NITRILE - SERVICE H2S
8	ENS. JOINT D'ETANCHEITE (Packer) PACKING ELEMENT	NITRILE - SERVICE H2S
9	SEGMENT DE LIAISON LOCK RING SLOTTED	10 CD 9-10 - 262 - 321 HBN
10	ANNEAU DE FIXATION ACTUATOR RING	25 CD 4 S - 187 - 235 HBN
11	VIS DE MANOEUVRE SUB. ASSY. ACTUATOR SCREW	40 NC D 7 - 262 - 321 HBN
12	DOUILLE FILETEE INSERT ACTUATOR SCREW	25 CD 4 S - 207 - 235 HBN
13	SEGMENT COIN LOCK SEGMENT	25 CD 4 S - 207 - 235 HBN
14	ANNEAU SUPPORT SUPPORT RING	A 48 - 135 - 160 HBN
15	ANNEAU DE CYLINDRE INT. SUPPORT RING	25 CD 4 S - 207 - 235 HBN
16	JOINT DE CHAPEAU SEAL TOP	NEOPRENE (90 SHORE)
17	PALIER VIS DE MANOEUVRE BEARING ACTUATOR SCREW	A 48 - 135 - 160 HBN
18	PLAQUE CONSTRUCTEUR NAME PLATE	

NOTICE DE CHANGEMENT No

Cameron

IRON WORKS
DE FRANCE

Fait par	CONT.	REVISION INDICE	
MR		A1	
LE 30.9.82	A2	25.10.82	

Echelle

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SK-32015.02 2/4

ITEM	DESCRIPTION	MATIERE
19	PLAQUE "PRESSION" NAME PLATE	
20	PLAQUE "VENT" NAME PLATE VENT	
21	PLAQUE "CLOSE" NAME PLATE CLOSE	
22	PLAQUE "OPEN" NAME PLATE OPEN	
23	PLAQUE "BREVETS" NAME PLATE PATENTS	
29	MANILLE SHACKLE	
30	GOUJON DE CYLINDRE INTERIEUR INNER CYLINDER STUDS	Z 6 NCTVD 25.15 - 293 - 331 HBN
31	ECROU DE CYLINDRE INTERIEUR INNER CYLINDER NUTS	ASTM - A 194 - GR 2H
32	GOUJON DE CHAPEAU TOP STUD	ASTM - A 193 - GR B7
33	ECROU DE CHAPEAU TOP NUT	ASTM - A 194 - GR 2H
34	BOUCHON PLUG	25 CD 4 S - 187 - 235 HBN
35	BOUCHON PLUG	X C 18
36	VIS PLAQUE DE POUSSEE SCREW SOCKET HEAD CAP	Z 5 NCTVD 25.15 - 293 - 331 HBN
37	VIS D'ARRET SCREW SOCKET HEAD CAP	25 CD 4 S - 207 - 235 HBN
38	ANNEAU DE LEVAGE EYE BOLT	
39	ANNEAU DE LEVAGE EYE BOLT	
40	PLAQUE DE PROTECTION WEAR PLATE	42 CD 4 - 285 - 331 HBN
41	ANNEAU DE LEVAGE EYE BOLT	
42	ANNEAU DE LEVAGE EYE BOLT	

NOTICE DE CHANGEMENT No

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DE FRANCE

Fait par MR	CONT	REVISION INDICE
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Echelle

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ITEM	DESCRIPTION	MATIERE
45	VIS D'ARRET DE DOUILLE SCREW SOCKET HEAD	ANSI B 18 - 3
46	GRAISSEUR FITTING GREASE STRAIGHT	MONEL
50	PATIN D'ANNEAU DE CYL. INT. RING (INNER CYLINDER HEAD)	EGC ALLOY 90
51	PATIN INTERIEUR DE PISTON BEARING (PISTON I.D.)	CELORON
52	PATIN DE CYLINDRE INTERIEUR BEARING (INNER CYL. HEAD O.D.)	CELORON
53	PATIN DE CYLINDRE EXTERIEUR BEARING (OUTER CYL. HEAD I.D.)	CELORON
54	PATIN EXTERIEUR DE PISTON BEARING (PISTON O.D.)	CELORON
55	PATIN DE PLAQUE DE POUSSEE WEAR RING	EGC COMPOUND 71-N
56	JOINT RACLEUR EXTERIEUR WIPER RING (INNER CYL. HEAD I.D.)	POLYURETHANE
57	JOINT RACLEUR INTERIEUR WIPER RING (INNER CYL. HEAD O.D.)	POLYURETHANE
58	JOINT INF. DE CYL. INT./CORPS LIP SEAL (INNER CYL. HEAD I.D.)	NITRILE - SERVICE H2S
59	JOINT SUP. DE CYL. INT./CORPS LIP SEAL (INNER CYL. HEAD I.D.)	NITRILE - SERVICE H2S
60	JOINT INF. DE CYL. INT./PISTON LIP SEAL (INNER CYL. HEAD O.D.)	NITRILE - SERVICE H2S
61	JOINT INTERIEUR DE PISTON LIP SEAL (PISTON I.D.)	NITRILE - SERVICE H2S
62	JOINT EXTERIEUR DE PISTON LIP SEAL (PISTON O.D.)	NITRILE - SERVICE H2S
63	JOINT INT. DE CYL. EXT./PISTON LIP SEAL (OUTER CYL. HEAD I.D.)	NITRILE - SERVICE H2S
64	JOINT SUP. DE CYL. EXT./PISTON LIP SEAL (OUTER CYL. HEAD I.D.)	NITRILE - SERVICE H2S
65	JOINT EXTERIEUR DE CYL. EXT. LIP SEAL (OUTER CYL. HEAD O.D.)	NITRILE - SERVICE H2S
66	JOINT DE CHAPEAU / CYL. EXT LIP SEAL (TOP I.D.)	NITRILE - SERVICE H2S

NOTIC. DE CHANGEMENT N°

Cameron

IRON WORKS
DE FRANCE

Fait par
MR

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Echelle

LE 29.82 A2 25.10.82

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ITEM	DESCRIPTION	MATIERE
67	JOINT DE CHAPEAU / CORPS LIP SEAL (TOP O.D.)	NITRILE - SERVICE H2S
68	JOINT SUP. DE CYL. INT./PISTON LIP SEAL (INNER CYL. HEAD O.D.)	NITRILE - SERVICE H2S
71	JOINT ANTI EXTRUSION BACK-UP RING	POLYETHER SULFONE
75	JOINT TORIQUE "O" RING	NITRILE SERVICE H2S

ACCEPTED AS CERTIFIED
 ACCEPTANCE DOES NOT RELIEVE
 VENDOR OF HIS CONTRACTUAL
 OBLIGATION
 BY *J. Ordul.* Date **10.2.84**
elf aquitaine norge a/s

Title : HEIMDAL DEVELOPMENT HMP1
 Equipment/tag : BOP STACK 18.3/4" 10K-X7762
 Purchase Order N° : 1.HO.1.0.0018.01
 Vendor Document Ref. : **D005/2/2**
 SDRL Code : BA KE

NOTICE DE CHANGEMENT N°

Cameron

IRON WORKS
DE FRANCE

Fait par
MR

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LE **30.9.82** A2 25.10.82

Echelle

SK 32015.02 p 4/4

18.3/4" 5 K W.P. TYPE "D" B.O.P.

A

235940-00-56-01

p1/2

-BOTTOM HUB 18.3/4" 10 K STAINLESS STEEL RING GROOVE BX 164

-STUDDED TOP 18.3/4" 5 K STAINLESS STEEL RING GROOVE BX 163

-SPECIAL MATERIAL ACCORDING TO IT 1210 (KCV AT -30°C)

Rep.	Qté	Fat.	NUMEROTATION	DESIGNATION
1	1	A	235940-00-56-02	BODY
2	1	A	235940-00-56-03	TOP
3	1	A	235940-00-56-04	PISTON
4	1	A	235940-00-56-06	INNER CYLINDER HEAD
5	1	A	235940-00-56-08	OUTER CYLINDER HEAD
6	1	A	235940-00-56-10	PUSHER PLATE
7	1		699340-44	DONUT
8	1	A	235940-00-56-12	PACKING ELEMENT
9	1	1	235940-00-56-13	LOCK RING SLOTTED
10	1	A	235940-00-56-15	ACTUATOR RING
11	4	A	235940-00-56-17	SUB ASSY. ACTUATOR SCREW
12	4	B	235940-00-56-19	INSERT ACTUATOR SCREW
13	3	C	235940-00-56-21	LOCK SEGMENT
14	1	C	235940-00-56-23	SUPPORT RING (LOCK SEGMENT)
15	1	C	235940-00-56-25	SUPPORT RING (INNER CYLINDER HEAD)
16	1		46045-18	TOP SEAL
17	8	A	699344-02	BEARING ACTUATOR SCREW
18	1	A	235539-23	NAME PLATE
19	1	A	49047-02	NAME PLATE - PRESSURE
20	2	A	49052-01	NAME PLATE "VENT"
21	2	A	49051-01	NAME PLATE "CLOSE"
22	2	A	49050-01	NAME PLATE "OPEN"
23	1	A	25950	NAME PLATE - PATENTS -
29	4	A	663311-13	SHACKLE
30	16	A	235940-00-56-27	INTER CYLINDER STUD
31	16	A	235940-00-56-28	INNER CYLINDER NUT
32	20	A	235940-00-56-29	TOP STUD
33	20	A	235940-00-56-30	TOP NUT
34	2	B	614271-02	PLUG 2" 8 UN
35	2	C	5930-06-10	PLUG 1.1/4" NPT
36	24	A	235940-00-56-31	SCREW, SOCKET HEAD CAP (PUSHER PLATE)
37	4	A	46052-02	SCREW, SOCKET HEAD CAP (ACTUATOR RING)
38	4	B	11849	EYE BOLT
39	4		700649	EYE BOLT

Cameron IRON WORKS
DE FRANCE
Plaine Saint - Pierre
34 501 - BEZIERS

REVISION
INDICE

A1

A216.9.83

Fait par R. MARTY

Contrôlé par J.P. REDO

1^{ère} DIFFUSION LE 29.8.83

A 235940-00-56-01

No TRACE

N° DE CHANGEMENT No

TL 6350

18.3/4" 5 K W.P. TYPE "D" B.O.P.

A

235940-00-56-01

p2/2

-BOTTOM HYB 18.3/4" 10 K STAINLESS STEEL RING GROOVE BX 164

-STUDED TOP 18.3/4" 5 K STAINLESS STEEL RING GROOVE BX 163

-SPECIAL MATERIAL ACCORDING TO IT 1210 (KCV AT -30°C)

/2
A 235940-00-56-01

NO TRACE

Rep.	Qté	Fat.	NUMEROTATION	DESIGNATION
40	2	A	12185-03	EYE BOLT
41	4	A	12185-02	EYE BOLT
45	4	A	702514-25-20-08	SCREW, SOCKET HEAD
46	4	A	700594	FITTING GREASE STRAIGHT
50	1		49122-11	RING (INNER CYLINDER HEAD)
51	1	B	614246-74	BEARING (PISTON I.D.)
52	1	B	614246-72	BEARING (INNER CYL. HEAD O.D.)
53	1	B	614246-73	BEARING (OUTER CYL. HEAD I.D.)
54	1	B	614246-75	BEARING (PISTON O.D.)
55	1	A	699345-14	WEAR RING
56	1		708000	WIPER RING (INNER CYL. HEAD I.D.)
57	1		708003	WIPER RING (INNER CYL. HEAD O.D.)
58	1		615850-04	LIP SEAL (INNER CYL. HEAD I.D.)
59	1		615851-01	LIP SEAL (INNER CYL. HEAD I.D.)
60	1		615846-05	LIP SEAL (INNER CYL. HEAD O.D.)
61	1		615850-03	LIP SEAL (PISTON I.D.)
62	1		615846-01	LIP SEAL (PISTON O.D.)
63	1		615850-02	LIP SEAL (OUTER CYL. HEAD I.D.)
64	1		615850-02	LIP SEAL (OUTER CYL. HEAD I.D.)
65	1		615846-02	LIP SEAL (OUTER CYL. HEAD O.D.)
66	1		615850-01	LIP SEAL (TOP I.D.)
67	1		706258-13	LIP SEAL (TOP O.D.)
68	1		615846-05	LIP SEAL (INNER CYL. HEAD O.D.)
75	2	A	6227-32-01-70	"O" RING (PLUG 2" - 8UN)
	1		SD - 1327 - 01	OPERATIONS AND MAINTENANCE MANUAL

ACCEPTED AS CERTIFIED

ACCEPTANCE DOES NOT RELIEVE
VENDOR OF HIS CONTRACTUAL
OBLIGATION

BY: *J. Arnaud* Date: *10.2.84*

elf aquitaine norge as

Title : HEIMDAL DEVELOPMENT HMP1

Equipment/tag : BOP STACK 18.3/4"10K-X7762

Purchase Order N° : 1.HO.1.U.0018.01

Vendor Document Ref. : *D005/51/0*

SDRL Code : *K-N-5*

ICE DE CHANGEMENT NO

Cameron IRON WORKS
DE FRANCE
Plaine Saint - Pierre
34 501 - BEZIERS

REVISION
INDICE

A1

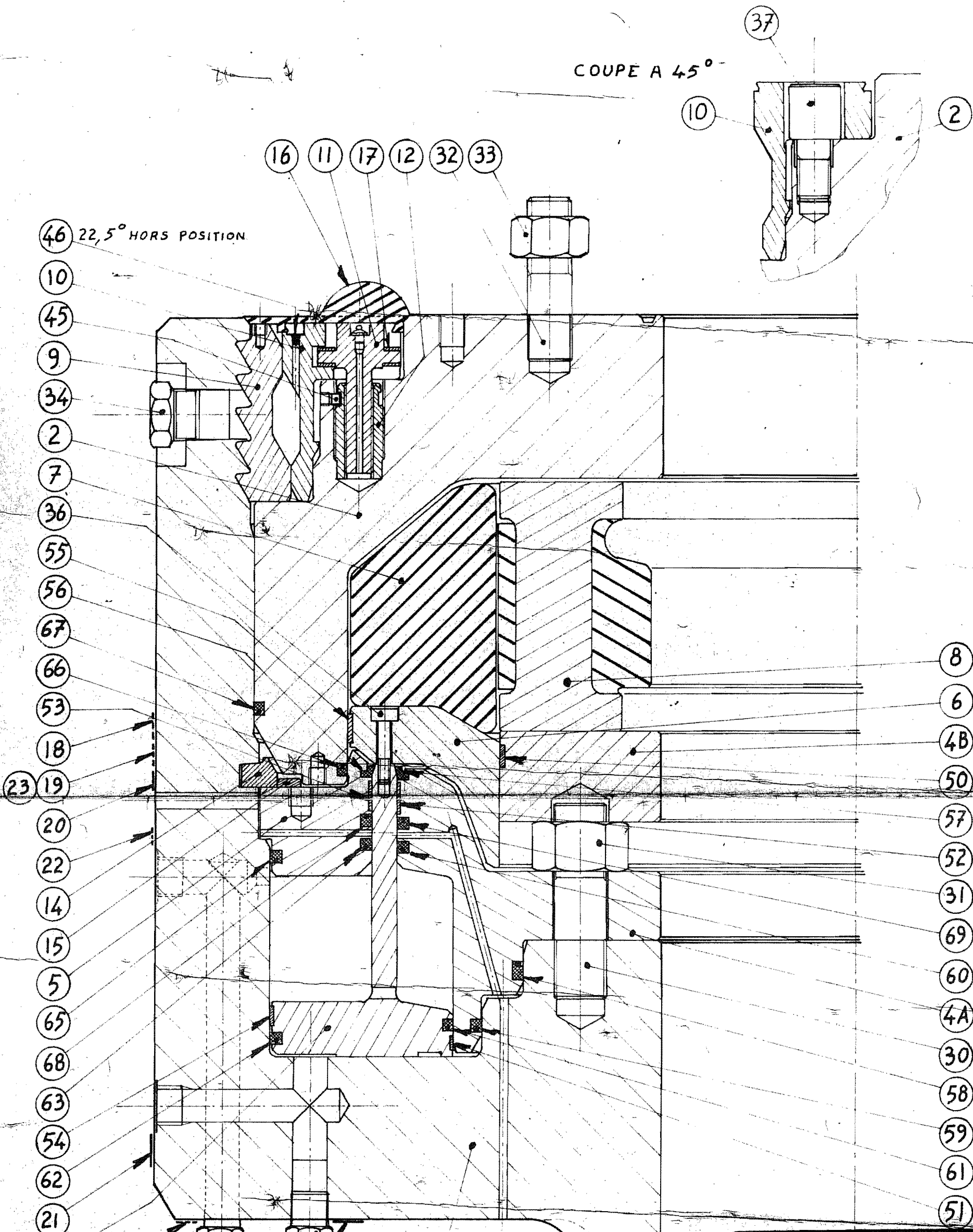
A216.9.83

Fait par R. MARTY

Contrôlé par : *JP REDO*

1^{ère} DIFFUSION LE : *29.3.83*

COUPE A 45°



46 22,5° HORS POSITION

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Title : HEIMDAL DEVELOPMENT HMP1
 Equipment/tag : BOP STACK 18.3/4"10K-X7762
 Purchase Order N° : 1.HO.1.U.0018.01
 Vendor Document Ref. : **DO05/10/1**
 SDRL Code : **D KA KE**

ACCEPTED AS CERTIFIED
 ACCEPTANCE DOES NOT RELIEVE
 VENDOR OF HIS CONTRACTUAL
 OBLIGATION
 BY *J. Arden* Date **10.2.04**
elf aquitaine norge a/s

TYPE "D" BOP ASSEMBLY
ASSEMBLAGE BOP TYPE "D" DO05/10/1

B.235520-11

7L 6350

notice = 16585

Cameron IRON WORKS
 DE FRANCE
 REYNOLDS
 1978

B.235520-11