



ITEM No.	DESCRIPTION	LOCATION	WEIGHT INCL. DRIVER (LBS)	PUMP TYPE	DESIGN FLOW US (GPM)	DISCHARGE PRESS (PSIG)	DIFF. HEAD (FT)	ESTIMATED POWER (HP)	DRIVER TYPE	REMARKS
P151	DIESEL DRIVEN FIRE PUMP	CELLAR DECK	25100	DIRECT SHAFT	2000	165 at CD	490	510	DIESEL ENGINE	DRY WEIGHT INCL. DISCH. COLUMN
P152	DIESEL DRIVEN FIRE PUMP	CELLAR DECK	25100	DIRECT SHAFT	2000	185 at CP	490	510	DIESEL ENGINE	DRY WEIGHT INCL. DISCH. COLUMN
P153A	DIESEL OIL TRANSFER PUMP	CELLAR DECK	1580	DEEP WELL	600	63	170	55	ELEC.	
P153B	DIESEL OIL TRANSFER PUMP	CELLAR DECK	1580	DEEP WELL	600	63	170	55	ELEC.	
P154	SEAWATER LIFT PUMP	CELLAR DECK	-	SUBMERGED	300	130 at CD	365	54	ELEC.	DRY WEIGHT INCL. DISCH. COLUMN
P155A	SEAWATER LIFT PUMP (RDS)	CELLAR DECK	5100	SUBMERGED	750	111 at CD	250	75	ELEC.	BY OTHERS
P155B	SEAWATER LIFT PUMP (RDS)	CELLAR DECK	5100	SUBMERGED	750	111 at CD	250	75	ELEC.	BY OTHERS
P156	HYDROCARBON RECOVERY PUMP	SUMP	1200	SUBMERGED	20	210 at CD	550	5.5	ELEC.	DRY WEIGHT INCL. DISCH. COLUMN
P157	DIESEL DRIVEN FIRE PUMP	CELLAR DECK	25100	DIRECT SHAFT	2000	185 at CD	490	510	DIESEL ENGINE	DRY WEIGHT INCL. DISCH. COLUMN
P158A	DRILLWATER TRANSFER PUMP	CELLAR DECK	1600	DEEP WELL	600	87 at CD	200	50	ELEC.	BY OTHERS
P158B	DRILLWATER TRANSFER PUMP	CELLAR DECK	1600	DEEP WELL	600	87 at CD	200	50	ELEC.	BY OTHERS
P160	CUTTING SUMP PUMP	SUMP	1200	SUBMERGED	20	210 at CD	550	5.5	ELEC.	DRY WEIGHT INCL. DISCH. COLUMN
P161A	CHEMICAL INJECTION PUMP*	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
P161B	CHEMICAL INJECTION PUMP*	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
P161C	CHEMICAL INJECTION PUMP*	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
P161D	CHEMICAL INJECTION PUMP*	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162

No. DATE		REVISIONS		ENG.		APPRD.		DATE		REVISIONS		ENG.		APPRD.	
<b>VALHALL ENGINEERING JOINT VENTURE</b> <small>A/S ALLERS BOK VERPSTED BROWNAER OFFSHORE A/S - KVERNER BRUG A/S</small>															
MASTER EQUIPMENT LIST DRILLING PLATFORM - PUMP SUMMARY															
BY: <i>[Signature]</i> CHECKED: <i>[Signature]</i> APPROVED: <i>[Signature]</i> DATE: 2012.78															
CONTRACT/PROJECT No. <b>D-EL-D033</b>															
PAGE 1 OF 2															

ITEM No.	DESCRIPTION	LOCATION	WEIGHT INCL. DRIVER (LBS)	PUMP TYPE	DESIGN FLOW US (GPM)	DISCHARGE PRESS (PSIG)	DIFF. HEAD (FT)	ESTIMATED POWER (HP)	DRIVER TYPE	REMARKS
P151	DIESEL DRIVEN FIRE PUMP	CELLAR DECK	25100	DIRECT SHAFT	2000	165 at CD	490	510	DIESEL ENGINE	DRY WEIGHT INCL. DISCH. COLUMN
P152	DIESEL DRIVEN FIRE PUMP	CELLAR DECK	25100	DIRECT SHAFT	2000	185 at CD	490	510	DIESEL ENGINE	DRY WEIGHT INCL. DISCH. COLUMN
P153A	DIESEL OIL TRANSFER PUMP	CELLAR DECK	1580	DEEP WELL	600	63	170	55	ELEC.	
P153B	DIESEL OIL TRANSFER PUMP	CELLAR DECK	1580	DEEP WELL	600	63	170	55	ELEC.	
P154	SEAWATER SAFT PUMP	CELLAR DECK	-	SUBMERGED	300	130 at CD	365	54	ELEC.	DRY WEIGHT INCL. DISCH. COLUMN
P155A	SEAWATER LIFT PUMP (RDS)	CELLAR DECK	5100	SUBMERGED	750	111 at CD	250	75	ELEC.	BY OTHERS
P155B	SEAWATER LIFT PUMP (RDS)	CELLAR DECK	5100	SUBMERGED	750	111 at CD	250	75	ELEC.	BY OTHERS
P156	HYDROCARBON RECOVERY PUMP	SUMP	1200	SUBMERGED	30	210 at CD	550	5.5	ELEC.	DRY WEIGHT INCL. DISCH. COLUMN
P157	DIESEL DRIVEN FIRE PUMP	CELLAR DECK	25100	DIRECT SHAFT	2000	185 at CD	490	510	DIESEL ENGINE	DRY WEIGHT INCL. DISCH. COLUMN
P158A	DRILLWATER TRANSFER PUMP	CELLAR DECK	1600	DEEP WELL	600	87 at CD	200	50	ELEC.	BY OTHERS
P158B	DRILLWATER TRANSFER PUMP	CELLAR DECK	1600	DEEP WELL	600	87 at CD	200	50	ELEC.	BY OTHERS
P160	CUTTING SUMP PUMP	SUMP	1200	SUBMERGED	20	210 at CD	550	5.5	ELEC.	DRY WEIGHT INCL. DISCH. COLUMN
P161A	CHEMICAL INJECTION PUMP *	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
P161B	CHEMICAL INJECTION PUMP *	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
P161C	CHEMICAL INJECTION PUMP *	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
P161D	CHEMICAL INJECTION PUMP *	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162

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**VALHALL ENGINEERING JOINT VENTURE**  
 A/S AREERS BEE VERASTED - BROWNER OFFSHORE A/S - AVERNER DRILL A/S

Contract/Project No. **D-EL-D033**

DATE **20.12.78** PAGE 1 OF 2

APPROVED *[Signature]* CHECKED *[Signature]*

MASTER EQUIPMENT LIST  
 DRILLING PLATFORM - PUMP SUMMARY

No.	DATE	REVISIONS	ENG.	APPRD.	No.	DATE	REVISIONS	ENG.	APPRD.
6	21/01/80	REVISED AS NOTED	<i>[Signature]</i>	<i>[Signature]</i>	3	5/03	REVISED AS NOTED	<i>[Signature]</i>	<i>[Signature]</i>
5	15/05/79	ISSUE FOR CONSTRUCTION	<i>[Signature]</i>	<i>[Signature]</i>	2	29/6	FOR APPROVAL	<i>[Signature]</i>	<i>[Signature]</i>
4	23/03/78	BID ISSUE	<i>[Signature]</i>	<i>[Signature]</i>	1	1/9-78	GENERAL REVISION	<i>[Signature]</i>	<i>[Signature]</i>

ITEM No	DESCRIPTION	LOCATION	WEIGHT INCL. DRIVER (LBS)	PUMP TYPE	DESIGN FLOW GPM AT OPERATING CONDITIONS	DISCHARGE PRESS (PSIG)	DIFF. HEAD (FT)	ESTIMATED POWER (HP)	DRIVER TYPE	REMARKS
5 P161E	* CHEMICAL INJECTION PUMP	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
5 P161F	* CHEMICAL INJECTION PUMP	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
5 P161G	* CHEMICAL INJECTION PUMP	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
5 P161H	* CHEMICAL INJECTION PUMP	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
5 P161I	* CHEMICAL INJECTION PUMP	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
5 P161J	* CHEMICAL INJECTION PUMP	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
5 P161K	* CHEMICAL INJECTION PUMP	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
5 P161L	* CHEMICAL INJECTION PUMP	CELLAR DECK			0-1	0-675		0.5	ELEC.	PART OF X162
6 P162A H01.1	* FRAC FLUID/NGL INJECTION PUMP	DRILLING 1 MODULES								R.D.S. NO. 4117E
6 P162B H01.1	* FRAC FLUID/NGL INJECTION PUMP	DRILLING 1 MODULES								R.D.S. NO. 4117D
6 P162C H01.1	* FRAC FLUID/NGL INJECTION PUMP	DRILLING 1 MODULES								R.D.S. NO. 4117C
6 P162D H01.1	* FRAC FLUID/NGL INJECTION PUMP	DRILLING 1 MODULES								R.D.S. NO. 4117B
6 P162E H01.1	* FRAC FLUID/NGL INJECTION PUMP	DRILLING 1 MODULES								R.D.S. NO. 4117A
	* ONE ELECTRIC MOTOR DRIVES THREE CHEMICAL INJECTION PUMPS.									


No	DATE	REVISIONS	ENG.	APPRD	No	DATE	REVISIONS	ENG.	APPRD
6	2/01/00	REVISED AS NOTED							
5	7/9	ISSUE FOR CONSTRUCTION							

VAL HALL ENGINEERING JOINT VENTURE  
 4750 W. 130th Street, Houston, TX 77033  
 APPROVED: *[Signature]* DATE: 15.06.79  
 CHECKED: *[Signature]*

MASTER EQUIPMENT LIST  
 DRILLING PLATFORM - PUMP SUMMARY.  
 D-ET-DOJ3  
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ITEM No.	DESCRIPTION	LOCATION	SIZE L x W x H	DRY WEIGHT (LBS)	ESTIMATED POWER (HP)	REMARKS
X151	DIESEL OIL COALESCER	CELLAR DECK			0	SEE X152
X152	DIESEL OIL FILTER	CELLAR DECK	10' - 11 1/2" x 10' x 9' - 6 3/8"	8400	0	SKID-MOUNTED TOGETHER WITH X151
X154	HYDROCARBON RECOVERY SUMP	CELLAR DECK	36" DIA.		0	
X155	LIFEBOAT DAVIT	CELLAR DECK	HOLD	6100	12	
X156	MANOVERBOARD DAVIT	CELLAR DECK	HOLD	4800	23	
X157A	AFFF STORAGE TANK	CELLAR DECK	HOLD	3500	0	
X157B	AFFF STORAGE TANK	CELLAR DECK	HOLD	3500	0	
X158A	AFFF STORAGE TANK	CELLAR DECK	HOLD		0	SEE X160A
X158B	AFFF STORAGE TANK	CELLAR DECK	HOLD		0	SEE X160B
X159	CUTTING SUMP	CELLAR DECK	42" DIA.		0	
X160A	TWIN AGENT HOSE REEL	CELLAR DECK	HOLD	2200	0	SKID-MOUNTED TOGETHER WITH X158A AND X161A
X160B	TWIN AGENT HOSE REEL	CELLAR DECK	HOLD	2200	0	SKID-MOUNTED TOGETHER WITH X158B AND X161B
X161A	DRY POWDER STORAGE TANK	CELLAR DECK	HOLD		0	SEE X160A
X161B	DRY POWDER STORAGE TANK	CELLAR DECK	HOLD		0	SEE X160B
X162	CHEMICAL INJECTION PACKAGE	CELLAR DECK	HOLD	13500	11.6	
X163A	LIFERAFT DAVIT	CELLAR DECK	HOLD	3300	0	
X163B	LIFERAFT DAVIT	CELLAR DECK	HOLD	3300	0	PROJECT MASTER


**VALHALL ENGINEERING JOINT VENTURE**  
 A JOINT VENTURE OF VALHALL ENGINEERING, INC. AND HALL ENGINEERING, INC.

**MASTER EQUIPMENT LIST**  
**DRILLING PLATFORM - GENERAL EQUIPMENT**

DATE: 2012.78  
 DRAWING NO: D-EL-D035  
 PROJECT MASTER

No	DATE	REVISION	ENG	APPRD	No	DATE	REVISION
6	24/01/80	REVISED AS NOTED	ff	ff	3	5/09/79	REVISED AS NOTED
5	15/06/72	ISSUE FOR CONSTRUCTION	ff	ff	2	20/1/78	FOR APPROVAL
4	23/03/79	BID ISSUE	ff	ff	1	1/9/77	GENERAL REVISION

