

SEAL SUPPORT SYSTEM
API Plan 54
Mfr. John Crane
FREE ISSUED BY CUSTOMER

SEAL SUPPORT SYSTEM
API Plan 32
Mfr. John Crane
FREE ISSUED BY CUSTOMER

LUBE OIL SYSTEM
RATED: ISO VG150, 20.85 GPM
5.0 HP, 1800 RPM, 460V, 3PH, 60 HZ

RP-62670/62671
BORNEMANN PUMP
BORNEMANN W9.5zk-89/1/N

RDP-62670/62671
PUMP MOTOR
Mfr: SIEMENS, Model# TBA
1140 HP, 1251 rpm, 2300 V, 41.9 Hz, 3 phase

NOTE 13

TABLE FOR TAG #s		
Item	Tag for RP-62670 (even Tag #s)	Tag for RP-62671 (odd Tag #s)
Bornemann Pump	RP-62670	RP-62671
Pump Motor	RDP-62670	RDP-62671
Pump Casing Temp. Instrument	TE/TT-68730	TE/TT-68731
Pump Bearing RTD DE-L	TE/TT-68734	TE/TT-68735
Pump Bearing RTD NDE-L	TE/TT-68736	TE/TT-68737
Pump Bearing RTD DE-S	TE/TT-68738	TE/TT-68739
Pump Bearing RTD NDE-S	TE/TT-68740	TE/TT-68741
Pump Bearing Vib. Instrument DE-DRIVE (DE-L)	VE-68742	VE-68743
Pump Bearing Vib. Instrument DE-DRIVEN (NDE-L)	VE-68746	VE-68747
Pump Bearing Vib. Instrument NDE-DRIVE (DE-S)	VE-68744	VE-68745
Pump Bearing Vib. Instrument NDE-DRIVEN (NDE-S)	VE-68748	VE-68749
Motor Bearing RTD DE	TE/TT-68750	TE/TT-68751
Motor Bearing RTD NDE	TE/TT-68752	TE/TT-68753
Motor Winding RTD	TE-68754	TE-68755
Motor Winding RTD	TE-68756	TE-68757
Motor Winding RTD	TE-68758	TE-68759
Motor Winding RTD	TE-68760	TE-68761
Motor Winding RTD	TE-68762	TE-68763
Motor Winding RTD	TE-68764	TE-68765
Motor Vibration Instrument DE-L	VE/VT-68766	VE/VT-68767
Motor Vibration Instrument DE-R	VE/VT-68768	VE/VT-68769
Motor Vibration Instrument NDE-L	VE/VT-68770	VE/VT-68771
Motor Vibration Instrument NDE-R	VE/VT-68772	VE/VT-68773
Motor Vibration Instrument / Key Phasor	KE-68774	KE-68775
Steam Supply Control Valve	TV-68730	TV-68731
Steam Supply Control Valve Regulator	TY-68730	TY-68731
Steam Supply Temperature Controller	TC-68730	TC-68731
Steam Supply Pressure Instrument	PT-68732	PT-68733
Lube Oil Return (from MPP) Temperature Gauge	TI-68776	TI-68777
Lube Oil Return (from MPP) Temperature Gauge	TI-68778	TI-68779
Lube Oil Return (from MPP) Sight Glass	N/A	N/A
Lube Oil Return (from MPP) Sight Glass	N/A	N/A
Lube Oil Return (from motor) Temperature Gauge	TI-68780	TI-68781
Lube Oil Return (from motor) Temperature Gauge	TI-68782	TI-68783
Lube Oil Return (from motor) Sight Glass	N/A	N/A
Lube Oil Return (from motor) Sight Glass	N/A	N/A

OIL RETURN FROM PUMP MOTOR, SELF-DRAINING (304 SST PIPING)

BASEPLATE

CONTROL PANEL

LUBE SYSTEM
Ref Dwg # LP2973-F

OIL SUPPLY TO PUMP MOTOR (304 SST PIPING)

JUNCTION BOX
(PUMP
INSTRUMENTATION)
Ref Dwg # 18-0139-RP-62670/1

STEAM SUPPLY

STEAM RETURN

CONTROL PANEL
(BY CUSTOMER)

SEAL SUPPORT PANEL
API-PLAN 54
(FREE ISSUED BY CUSTOMER)
Ref Dwg # MA763812

SEAL SUPPORT SYSTEM
API-PLAN 54
(FREE ISSUED BY CUSTOMER)
Ref Dwg # MA763811

NOTES:

- ALL VALVES IN 304 SST PIPING FOR LUBE OIL CONNECTIONS, AND IN 316 SST PIPING FOR SEAL OIL CONNECTIONS HAVE FLANGED CONNECTIONS.
- BASEPLATE SIZE NOT TO EXCEED 12'x40'x13' (WxLxH).
- PSV (PROCESS SIDE) NOT SHOWN IN P&ID. SHIP LOOSE.
- ALL PIPING EXCEPT LUBE OIL SUPPLY & RETURN PIPING C/W PROVISION FOR 2" INSULATION. INSULATION BY CUSTOMER.
- SHELL PIPE SPEC 31261DPK1 FOR STEAM PIPINGAND FOR CONDENSATE PIPING.
- STEAM TRAP: 3/4" SW CONNECTIONS, C/W BLOCK AND BLEED FUNCTIONALITY. LPD AND HPV LOCATIONS TBA AFTER GA AND ISOS ARE ISSUED.
- LUBE OIL RETURN PIPE CONNECTION TO PUMP USING EXPANSIBLE JOINTS.
- INSTRUMENT AIR SUPPLY AND HOOK-UP BY CUSTOMER.
- PRE-INSULATED DECORON BRAND 316 SST TUBING /W SST SWAGelok FITTINGS TO BE USED FOR SEAL OIL LINES UP TO 3 FT AROUND THE PUMP.
- MOTOR LUBRICATION USING LUBE OIL (1 GMP PER BEARING). MOTOR CONNECTION C/W ORIFICE TO REGULATE FLOW).
- PUMP C/W INSULATION BLANKET.
- TAG #s (EVEN) SHOWN FOR RP-62670. REFER TO TABLE FOR CORRESPONDING TAG #s (ODD) FOR RP-62671.
- INCOLOY 825 MATERIAL /W SST SWAGelok FITTINGS TO BE USED FOR SEAL OIL LINES UP TO 3 FT AROUND THE PUMP EXCEPT WHERE STATED OTHERWISE (REFER TO NOTE 10).
- REMOTE MOUNTED ABOVE JB
- ISOLATION KIT TO BE INSTALLED UPSTREAM OF LPD VALVE, SEPARATING 304 SST (150#) AND CS (300#) PIPING.

Shell			
Purchase Review & Comments shall be provided to indicate either responsibility or liability for accuracy & compliance of this document or to state any construction & installation.			
Revision Order No.	P&ID-020000		
Project Name	Hut Field Unit		
Supply File Number(s)	05-62670 and 05-62671		
Project Code	Operator Code	Design Code	Approval No.
DR05054	05	YD	001
Includes (VDRS, Cables)			
Code 1	Accepted as Submitted - Final		
Code 2	Accepted with Comments. Incorporate comments (comments with 15-day and Rejected or Final Work May Proceed.		
Code 3	Review and Rejected. Incorporate comments, (15-day and Rejected. Work May Proceed.		
Code 4	Review not required - Do not re-submit		
Code 5	Rejected. Incorporate comments (15-day and Rejected. Work may NOT Proceed.		
Date:	Sign:		

SEAL FLUSH OIL

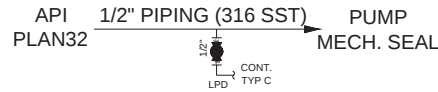
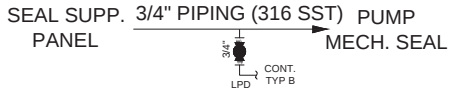
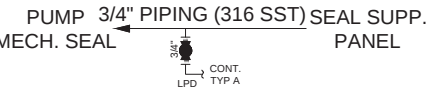
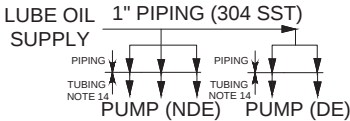
SEAL SUPPORT SYSTEM
API-PLAN 32
(FREE ISSUED BY CUSTOMER)
Ref Dwg # P32763811

DET. I
LUBE OIL SUPPLY TO PUMP

TYP. A
SEAL OIL RETURN, QTY 4

TYP. B
SEAL OIL SUPPLY, QTY 4

TYP. C
SEAL FLUSH SUPPLY, QTY 4



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Gen. Tolerance: DIN ISO 2768-vk

REV.	DESCRIPTION	DATE	ENGINEER	CHECKED
4	ISSUED FOR CONSTRUCTION	19/07/19	CM	MC
3	ISSUED FOR CONSTRUCTION	19/07/03	CM	MC
2	ISSUED FOR CONSTRUCTION	19/06/26	CM	MC
1	ISSUED FOR CONSTRUCTION	19/06/19	CM	MC
0	ISSUED FOR CONSTRUCTION	19/06/04	CM	MC
B	ISSUED FOR APPROVAL	19/02/25	CM	MC
A	ISSUED FOR APPROVAL	19/01/14	CM	MC

PROJECT NAME:

DEERPARK

DRAWING TITLE:

Pump-Motor-Baseplate
P&ID

CUSTOMER: **SHELL**

Contract No.: **4527025380**

Project No.: **03541**

DRAWING NO.: **Shell PID**

REV. **4**

SCALE: **NTS**

DATE: **2019/07/19**

DRAWN: **CM**

CHECKED: **MC**