



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



PROCESS DATA SHEETS FOR CLOSED DRAIN PUMPS

شماره پیمان:

053 - 073 - 9184

پروژه

BK

پسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

PR

نوع مدرک

DT

سریال

0023

نسخه

D02

شماره صفحه: 1 از 3

طرح نگهداشت و افزایش تولید 27 مخزن

PROCESS DATA SHEETS FOR CLOSED DRAIN PUMPS

نگهداشت و افزایش تولید میدان نفتی بینک

D02	JUL.2022	IFA	M.Aryafar	M.Fakharian	M.Mehrshad	
D01	FEB.2022	IFC	M.Aryafar	M.Fakharian	M.Mehrshad	
D00	NOV.2021	IFC	M.Aryafar	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 2

CLIENT Doc. Number:

F0Z-708767

status:

IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built -Approved



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سطح الارض

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PROCESS DATA SHEETS FOR CLOSED DRAIN PUMPS

شماره پیمان:

053 - 073 - 9184

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D02	0023	DT	PR	120	PEDCO	GCS	BK

شماره صفحه: 2 از 3

REVISION RECORD SHEET

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NISOC

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



PROCESS DATA SHEETS FOR CLOSED DRAIN PUMPS

شماره پیمان:

053 - 073 - 9184

پروژه

بسته کاری

صادر کننده

تسهیلات

رشته

نوع مدرک

سریال

نسخه

شماره صفحه: 3 از 3

BK

GCS

PEDCO

120

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0023

D02

1	Note											Rev
2	GENERAL DATA											
3	Type											
4	☒ Centrifugal ☐ Positive displacement											
5	Centrifugal ☐ Horizontal ☒ Vertical											
6	Positive displacement ☐ Reciprocating ☐ Rotary ☐ Metering											
7	Item P-2202 A/B	No. of Main/Stand By Units 1 / 1										
8	Service Closed Drain Pumps	Installation (Indoor-Outdoor-Other) Outdoor										
9	Operation ☐ Continuous ☒ Discontinuous ☐ Parallel ☒ Single											
10	Type of Driver	Electrical Motor										
11	CHARACTERISTICS OF HANDLED LIQUID											
12	Type of Handled Liquid	HC										
13	Pumping Temp.e (Min. / Normal / Max.)	°C	/ 5 (worse case) / Note 1									
14	Density at Min. / Norm / Max. Temp.	kg/m ³	/ 980 /									
15	Viscosity At Min. / Normal / Max. Temp.	cP	/ 0.46 /									
16	Vapour Pressure at Max. Pumping Temp.	bara	1.2									
17	Freezing Point / Pour Point	°C										
18	Dissolved Gas	Yes-No										
19	Corrosive / Erosive / Hazardous Agents / Flammable	Yes-No	Yes / Yes / Yes / Yes									
20	Suspended solids (Type / Dimen. / Vol.%)	mm	/ /									
21	OPERATING CONDITIONS											
22	Suction Pressure (Min/ Max.)	barg	0 / 0.80									
23	Discharge Pressure at Rated Capacity	barg	7.2									
24	Differential Pressure at Rated Capacity	bar	7.0									
25	Capacity (Min. / Normal / Rated)	m ³ /hr	/ 3 / 3.3 Note 3									
26	Head at Rated Capacity	m	72.8									
27	NPSH Available	m	0.3									
28	Max Allowable Pressure at Shut-Off	barg	16.80 Note 16									
29	Hydraulic Power	kW	0.6									
30	Reacceleration	Yes-No	No									
31	Automatic Start-Up	Yes-No	No									
32	Start-Up with Delivery Valve ☒ Open ☐ Close											
33	Flow Controlled By ☐ Pressure Controller ☐ Level Controller ☐ Flow Controller ☒ Other											
34	DESIGN CONDITIONS											
35	Design Temperature: Min / Max	°C	5 / 85									
36	Design Pressure	barg	16.80 Note 16									
37	MECHANICAL DATA											
38	Contamination of Liquid Handled Allowed	Yes-No	Yes									
39	Air Entrainment Allowed	Yes-No	No									
40	Leaks Allowed	Yes-No	No Note 7									
41	Antifreezing Protection	Yes-No	No									
42	Suction Line: Diameter	in	2"									
43	Discharge Line: Diameter	in	2"									
44	Mat. in Contact with Liq. Handled (Min.)		API610/S6 Note 6									

Note

- Pumping fluid might be hydrocarbon, water or a mixture of both.
- Deleted
- Design (rated) flow rates is 110 % of normal flow rate.
- Deleted
- Deleted
- The material shall be in compliance with NACE MR0175/ISO15156 and Specification For Material Requirements in Sour service Document No. BK-GNRAL-PEDCO-000-PI-SP-0008
- (Vendor to confirm)
- Liquid saturated at operating temperature.
- Applicable standards are: API610, IPS-G-PM-105, IPS-E-EL-131, IPS-E-EL-132.(Latest revision)
- Refer to hazardous area classification layout, all instrumentation and electrical devices shall be suitable for: ZONE 1 & Gas group IIB, Temperature class T4
- Margin between NPSHA and NPSHR shall not be less than 1 m.
- For P&ID refer to BK-GCS-PEDCO-120-PR-PI-0017
- Minimum Design Metal Tem (MDMT) = 5
- About the operation of the two pumps (A/B) it should be noted that if liquid level of V-2202 reaches H1 level, lead pump will be started. in case of H2 level alarm, lag pump will be started. Refer to (BK-GCS-PEDCO-120-PR-PI-0017)
- H2S (ppm) at winter 465.5611 & H2S (ppm) at summer 861.4594
- Design pressure of the suction vessel+ liquid height at vessel HLL at pump suction + pump differential pressure at rated flow of the pump