



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:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادرکننده

PEDCO

تجهیزات

120

رشته

PR

نوع مدرک

DT

سریال

0023

نسخه

D04

شماره صفحه: ۱ از ۳

طرح نگهداشت و افزایش تولید ۲۷ مخزن

PROCESS DATA SHEETS FOR CLOSED DRAIN PUMPS

نگهداشت و افزایش تولید میدان نفتی بینک

D04	FEB.2023	AFC	M.Aryafar	M.Fakharian	M.Mehrshad	
D03	OCT.2022	IFA	M.Aryafar	M.Fakharian	M.Mehrshad	
D02	AUG.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: 1

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



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:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D04	0023	DT	PR	120	PEDCO	GCS	BK

شماره صفحه: ۳ از ۲

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
1	X	X	X	X	X
2	X	X	X	X	X
3	X	X	X	X	
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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: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه: BK بسته کاری: GCS صادر کننده: PEDCO تسهیلات: 120 رشته: PR نوع مدرک: DT سریال: 0023 نسخه: D03	شماره صفحه: ۳ از ۳

1	Note	GENERAL DATA	Rev
2		Type	
3		☒ Centrifugal ☐ Positive displacement	
4		☐ Centrifugal ☐ Horizontal ☒ Vertical	
5		☐ Positive displacement ☐ Reciprocating ☐ Rotary ☐ Metering	
6		Item: P-2202 A/B No. of Main/Stand By Units: 1 / 1	
7		Service: Closed Drain Pumps Installation (Indoor-Outdoor-Other): Outdoor	
8		Operation: ☐ Continuous ☒ Discontinuous ☐ Parallel ☒ Single	
9		Type of Driver: Electrical Motor	
10		CHARACTERISTICS OF HANDLED LIQUID	
11		Type of Handled Liquid: HC	
12		Pumping Temp.e (Min. / Normal / Max.): °C / 5 (worse case) / Note 1	
13		Density at Min. / Norm / Max. Temp.: kg/m³ / 980 /	
14		Viscosity At Min. / Normal / Max. Temp.: cP / 0.46 /	
15		Vapour Pressure at Max. Pumping Temp.: bara 1	
16		Freezing Point / Pour Point: °C	
17		Dissolved Gas: Yes-No	
18		Corrosive / Erosive / Hazardous Agents / Flammable: Yes-No Yes / Yes / Yes / Yes	
19		Suspended solids (Type / Dimen. / Vol.%): mm / /	
20		OPERATING CONDITIONS	
21		Suction Pressure (Min/ Max.): barg 0 / 0.80	
22		Discharge Pressure at Rated Capacity: barg 7	
23		Differential Pressure at Rated Capacity: bar 7	
24		Capacity (Min. / Normal / Rated): m³/hr / 3 / 3.3 Note 3	
25		Head at Rated Capacity: m 72.8	
26		NPSH Available: m 0.3	
27		Max Allowable Pressure at Shut-Off: barg 14.50 Note 16	
28		Hydraulic Power: kW 0.6	
29		Reacceleration: Yes-No No	
30		Automatic Start-Up: Yes-No No	
31		Start-Up with Delivery Valve: ☒ Open ☐ Close	
32		Flow Controlled By: ☐ Pressure Controller ☐ Level Controller ☐ Flow Controller ☒ Other	
33		DESIGN CONDITIONS	
34		Design Temperature: Min / Max: °C 5 / 85	
35		Design Pressure: barg 14.50 Note 16	
36		MECHANICAL DATA	
37		Contamination of Liquid Handled Allowed: Yes-No Yes	
38		Air Entrainment Allowed: Yes-No No	
39		Leaks Allowed: Yes-No No Note 7	
40		Antifreezing Protection: Yes-No No	
41		Suction Line: Diameter in 2"	
42		Discharge Line: Diameter in 2"	
43		Mat. in Contact with Liq. Handled (Min.): API610/S6 Note 6	
44			

Note	
45	1 Pumping fluid might be hydrocarbon, water or a mixture of both.
46	2 Deleted
47	3 Design (rated) flow rates is 110 % of normal flow rate.
48	4 Deleted
49	5 Deleted
50	6 The material shall be in compliance with NACE MR0175/ISO15156 and Specification For Material Requirements in Sour service Document No. BK-GNRL-PEDCO-000-PI-SP-0008
51	7 (Vendor to confirm)
52	8 Liquid saturated at operating temperature.
53	9 Applicable standards are: API610, IPS-G-PM-105, IPS-E-EL-131, IPS-E-EL-132.(Latest revision)
54	10 Refer to hazardous area classification layout, all instrumentation and electrical devices shall be suitable for: ZONE 1 & Gas group IIB, Temperature class T3
55	11 Margin between NPSHA and NPSHR shall not be less than 1 m.
56	12 For P&ID refer to BK-GCS-PEDCO-120-PR-PI-0017
57	13 Minimum Design Metal Tem (MDMT) = 5
58	14 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)
59	15 H2S (ppm) at winter 465.5611 & H2S (ppm) at summer 861.4594
60	16 Design pressure of the suction vessel+ liquid height at vessel HLL at pump suction + pump differential pressure at rated flow of the pump

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