



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



PROCESS DATA SHEETS OF DIESEL PUMP

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

بسته کاری

صادرکننده

تسهیلات

رشته

نوع مدرک

سریال

نسخه

BK

GCS

PEDCO

120

PR

DT

0029

D04

شماره صفحه: ۱ از ۳

طرح نگهداشت و افزایش تولید ۲۷ مخزن

PROCESS DATA SHEETS OF DIESEL PUMP

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	JAN.2022	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-708773

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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PROCESS DATA SHEETS OF DIESEL PUMP

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D04	0029	DT	PR	120	PEDCO	GCS	BK

شماره صفحه: ۲ از ۳

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
1	X	X			X
2	X	X			X
3	X	X	X	X	
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Page	D00	D01	D02	D03	D04
65					
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سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



PROCESS DATA SHEETS OF DIESEL PUMP

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادرکننده

PEDCO

تسهیلات

120

رشته

PR

نوع مدرک

DT

سریال

0029

نسخه

D04

شماره صفحه: ۳ از ۳

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-2206 No. of Main/Stand By Units 1 / 0		
8	Service Diesel Pump 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 Diesel Fuel Oil		
13	Pumping Temp.e (Min. / Max.) °C 5 / 50		
14	Density at Min. / Norm / Max. Temp. kg/m³ / 850 /		
15	Viscosity At Min. / Normal / Max. Temp. cP / 4.8 /		
16	Vapour Pressure at Max. Pumping Temp. bara Negligible		
17	Freezing Point / Pour Point °C		
18	Dissolved Gas Yes-No No		
19	Corrosive / Erosive / Hazardous Agents / Flammable Yes-No No / No / No / Yes		
20	Suspended solids (Type / Dimen. / Vol.%) mm / /		
21	OPERATING CONDITIONS		
22	Suction Pressure (Min/ Max.) barg 0 / 0.11		
23	Discharge Pressure at Rated Capacity barg 0.95		
24	Differential Pressure at Rated Capacity bar 2		
25	Capacity (Min. / Normal / Rated) m³/hr / 5 / 5.5*MinFlow Note 1 , 2		
26	Head at Rated Capacity m 24		
27	NPSH Available m 10		
28	Max Allowable Pressure at Shut-Off barg 2.1		
29	Hydraulic Power kW 0.3		
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 2.1		
37	MECHANICAL DATA		
38	Contamination of Liquid Handled Allowed Yes-No No		
39	Air Entrainment Allowed Yes-No No		
40	Leaks Allowed Yes-No Yes		
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.) (API 610 Cl. S-1) Note 5		

Note

- 1 Design (rated) flow rates is 110 % of normal flow rate.
- 2 Due to continous minimum flow line by orifice, Pump rated flow = Rated process flow (5.5 m3/hr) + Pump min flow.
- 3 Deleted
- 4 API Plan 11 shall be considered. (Vendor to confirm)
- 5 (Vendor to confirm)
- 7 Margin between NPSHA and NPSHR shall not be less than 1 m.
- 8 Applicable standards are: ISO 5199, IPS-M-PM-115
- 9 Refer to hazardous area classification layout, all instrumentation and electrical devices shall be suitable for: safe area
- 10 Deleted
- 11 For P&ID refer to BK-GCS-PEDCO-120-PR-PI-0023
- 12 Minimum Design Metal Tep (MDMT) = 5

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