



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



PROCESS DATA SHEETS FOR POTABLE WATER PUMP

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

PR

نوع مدرک

DT

سریال

0026

نسخه

D02

شماره صفحه: 1 از 3

طرح نگهداشت و افزایش تولید 27 مخزن

PROCESS DATA SHEETS FOR POTABLE WATER PUMP

نگهداشت و افزایش تولید میدان نفتی بینک

D02	AUG.2022	IFA	M.Aryafar	M.Fakharian	M.Mehrshad	
D01	FEB.2022	IFA	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-708770				

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 POTABLE WATER PUMP								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری GCS	صادرکننده PEDCO	تسهیلات 120	رشته PR	نوع مدرک DT	سریال 0026	نسخه D02	شماره صفحه: 2 از 3

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	Page	D00	D01	D02	D03	D04
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2	X	X				66					
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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



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1	Note											Rev	
2		GENERAL DATA											
3	Type	☒ Centrifugal ☐ Positive displacement											
4		Centrifugal ☒ Horizontal ☐ Vertical											
5		Positive displacement ☐ Reciprocating ☐ Rotary ☐ Metering											
6	Item	P-2209				No. of Main/Stand By Units				1 / 0			
7	Service	Potable Water Pump				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	Potable Water											
12	Pumping Temp.e (Min. / Max.)			°C		5		/		50			
13	Density at Min. / Norm / Max. Temp.			kg/m³		/		1024		/			
14	Viscosity At Min. / Normal / Max. Temp.			cP		/		1.6		/			
15	Vapour Pressure at Max. Pumping Temp.			bara		0.1							
16	Freezing Point / Pour Point			°C									
17	Dissolved Gas			Yes-No									
18	Corrosive / Erosive / Hazardous Agents / Flammable			Yes-No		No		/		No		/	
19	Suspended solids (Type / Dimen. / Vol.%)			mm		/				/			
20													
21		OPERATING CONDITIONS											
22	Suction Pressure (Min/ Max.)			barg		-0.05		/		0.15			
23	Discharge Pressure at Rated Capacity			barg		1.95							
24	Differential Pressure at Rated Capacity			bar		2.00							
25	Capacity (Min. / Normal / Rated)			m³/hr		/		5		/		5.5	
26	Head at Rated Capacity			m		19.9							
27	NPSH Available			m		8.7		Note 7					
28	Max Allowable Pressure at Shut-Off			barg		2.60							
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													
35		DESIGN CONDITIONS											
36	Design Temperature: Min / Max			°C		5		/		85			
37	Design Pressure			barg		2.60							
38		MECHANICAL DATA											
39	Contamination of Liquid Handled Allowed			Yes-No		No							
40	Air Entrainment Allowed			Yes-No		No							
41	Leaks Allowed			Yes-No		Yes		Note 6					
42	Antifreezing Protection			Yes-No		No							
43	Suction Line: Diameter			in		2"							
44	Discharge Line: Diameter			in		2"							
45	Mat. in Contact with Liq. Handled (Min.)					API 610, Cl. 1-2		Note5					
46		Note											
47	1	Design (rated) flow rates is 110 % of normal flow rate.											
48	2	Deleted											
49	3	Deleted											
50	4	API Plan 11 shall be considered.											
51	5	(Vendor to confirm)											
52	6	Applicable :ISO 5199, IPS-M-PM-115.											
53	7	Margin between NPSHA and NPSHR shall not be less than 1 m.											
54	8	Refer to hazardous area classification layout, all instrumentation and electrical devices shall be suitable for: safe area											
55	9	For P&ID refer to BK-GCS-PEDCO-120-PR-PI-0024											
56	10	Minimum Design Metal Tem (MDMT) = 5											

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