طرح نگهداشت و افزایش تولید ۲۷ مخزن

PROCESS DATA SHEETS FOR CLOSED DRAIN PUMPS

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D05	JUN.2023	AFC	M.Aryafar	M.Fakharian	A.M.Mohseni	
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	

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 سطح‌الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک PROCESS DATA SHEETS FOR CLOSED DRAIN PUMPS	شرکت توسعه پتروایران HIRGAN ENERGY

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۹۱۸۴ – ۰۷۳ – ۰۵۳	BK	GCS	PEDCO	120	PR	DT	0023	D05

شماره صفحه: ۲ از ۳

REVISION RECORD SHEET

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نگهداشت و افزایش تولید میدان نفتی بینک
سطح‌الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

PROCESS DATA SHEETS FOR CLOSED DRAIN PUMPS

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	شماره پیمان:
D05	0023	DT	PR	120	PEDCO	GCS	BK	۰۵۳ - ۰۷۳ - ۹۱۸٤

شماره صفحه: ۳ از ۳

Note					Rev
GENERAL DATA					
Type					
■ Centrifugal	□ Positive displacement				
Centrifugal	○ Horizontal	● Vertical			
Positive displacement	○ Reciprocating	○ Rotary	○ Metering		
Item P-2202 A/B		No. of Main/Stand By Units	1 / 1		
Service Closed Drain Pumps		Installation (Indoor-Outdoor-Other)	Outdoor		
Operation	○ Continuous	● Discontinuous	○ Parallel	● Single	
Type of Driver		Electrical Motor			
CHARACTERISTICS OF HANDLED LIQUID					
Type of Handled Liquid		HC			
Pumping Temp.e (Min. / Normal / Max.)	°C	/ 5 (worse case) /	Note 1		
Density at Min. / Norm / Max. Temp.	kg/m³	/ 980 /			
Viscosity At Min. / Normal / Max. Temp.	cP	/ 0.46 /			
Vapour Pressure at Max. Pumping Temp.	bara	1			
Freezing Point / Pour Point	°C				
Dissolved Gas	Yes-No				
Corrosive / Erosive / Hazardous Agents / Flammable	Yes-No	Yes / Yes / Yes / Yes			
Suspended solids (Type / Dimen. / Vol.%)	mm	/ /			
OPERATING CONDITIONS					
Suction Pressure (Min/ Max.)	barg	0 / 0.80			
Discharge Pressure at Rated Capacity	barg	7			
Differential Pressure at Rated Capacity	bar	7			
Capacity (Min. / Normal / Rated)	m³/hr	/ 3 / 3.3	Note 3		
Head at Rated Capacity	m	72.8			
NPSH Available	m	0.3			
Max Allowable Pressure at Shut-Off	barg	14.50	Note 16		
Hydraulic Power	kW	0.6			
Reacceleration	Yes-No	No			
Automatic Start-Up	Yes-No	No			
Start-Up with Delivery Valve	● Open	○ Close			
Flow Controlled By	○ Pressure Controller	○ Level Controller	○ Flow Controller	● Other	
DESIGN CONDITIONS					
Design Temperature: Min / Max	°C	5 / 85			
Design Pressure	barg	14.50	Note 16		
MECHANICAL DATA					
Contamination of Liquid Handled Allowed	Yes-No	Yes			
Air Entrainment Allowed	Yes-No	No			
Leaks Allowed	Yes-No	No	Note 7		
Antifreezing Protection	Yes-No	No			
Suction Line: Diameter	in	2"			
Discharge Line: Diameter	in	2"			
Mat. in Contact with Liq. Handled (Min.)		**API610/S6**	Note 6		

Note

1	Pumping fluid might be hydrocarbon, water or a mixture of both.
2	Deleted
3	Design (rated) flow rates is 110 % of normal flow rate.
4	Deleted
5	Deleted
6	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
7	(Vendor to confirm)
8	Liquid saturated at operating temperature.
9	Applicable standards are: API610, IPS-G-PM-105, IPS-E-EL-131, IPS-E-EL-132.(Latest revision)
10	Refer to hazardous area classification layout, all instrumentation and electrical devices shall be suitable for: ZONE 1 & Gas group IIB,Temperature class T3
11	Margin between NPSHA and NPSHR shall not be less than 1 m.
12	For P&ID refer to BK-GCS-PEDCO-120-PR-PI-0017
13	Minimum Design Metal Tem (MDMT) = 5
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)
15	H2S (ppm) at winter 465.5611 & H2S (ppm) at summer 861.4594
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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