



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



PROCESS DATA SHEETS FOR FLARE K.O DRUM PUMPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادرکننده

PEDCO

تسهیلات

120

رشته

PR

نوع مدرک

DT

سریال

0025

نسخه

D04

شماره صفحه: ۱ از ۳

طرح نگهداشت و افزایش تولید ۲۷ مخزن

PROCESS DATA SHEETS FOR FLARE K.O DRUM PUMPS

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D04	JAN.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-708769

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 FOR FLARE K.O DRUM PUMPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D04	0025	DT	PR	120	PEDCO	GCS	BK

شماره صفحه: ۲ از ۳

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	Page	D00	D01	D02	D03	D04
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سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



PROCESS DATA SHEETS FOR FLARE K.O DRUM PUMPS

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳ از ۳
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	PR	DT	0025	D03	

1	Note								Rev	
2		GENERAL DATA								
3		Type								
4		<input checked="" type="checkbox"/> Centrifugal	<input type="checkbox"/> Positive displacement							
5		<input checked="" type="checkbox"/> Centrifugal	<input type="checkbox"/> Horizontal	<input checked="" type="checkbox"/> Vertical						
6		<input type="checkbox"/> Positive displacement	<input type="checkbox"/> Reciprocating	<input type="checkbox"/> Rotary	<input type="checkbox"/> Metering					
7		Item	P-2201 A/B	No. of Main/Stand By Units	2 / 0					
8		Service	Flare KO Drum	Installation (Indoor-Outdoor-Other)	Outdoor					
9		Operation	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Discontinuous	<input type="checkbox"/> Parallel	<input checked="" type="checkbox"/> Single				
10		Type of Driver	Electrical Motor							
11		CHARACTERISTICS OF HANDLED LIQUID								
12		Type of Handled Liquid		HC	Note 1					
13		Pumping Temp.e	°C	5 (worse case)						
14		Density at Min. / Norm / Max. Temp.	kg/m³	/	980	/				
15		Viscosity At Min. / Normal / Max. Temp.	cP	/	0.46	/				
16		Vapour Pressure at Max. Pumping Temp.	bara	1				Note 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	0.1 / 0.60						
23		Discharge Pressure at Rated Capacity	barg	1.6						
24		Differential Pressure at Rated Capacity	bar	1.5						
25		Capacity (Min. / Normal / Rated)	m³/hr	/	2	/	2.2	Note 3		
26		Head at Rated Capacity	m	15.6						
27		NPSH Available	m	1						
28		Max Allowable Pressure at Shut-Off	barg	9.00						
29		Hydraulic Power	kW	0.1						
30		Reacceleration	Yes-No	No						
31		Automatic Start-Up	Yes-No	Yes						
32		Start-Up with Delivery Valve	<input checked="" type="checkbox"/> Open	<input type="checkbox"/> Close						
33		Flow Controlled By	<input type="checkbox"/> Pressure Controller	<input checked="" type="checkbox"/> Level Controller	<input type="checkbox"/> Flow Controller	<input type="checkbox"/> Other				
34		DESIGN CONDITIONS								
35		Design Temperature: Min / Max	°C	5 / 85						
36		Design Pressure	barg	9.00						
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						
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/C6				Note 6		

Note

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46	1	Pumping fluid might be hydrocarbon, water or a mixture of both.							
47	2	Drum Operating Pressure= 0 Barg And Equal To Vapour Pressure At Max Pumping Temp.							
48	3	Design (rated) flow rates is 110 % of normal flow rate.							
49	4	Deleted							
50	5	Deleted							
51	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							
52	7	API Plan31-53B shall be considered. (Vendor to confirm)							
53	8	Deleted							
54	9	Liquid saturated at operating temperature.							
55	10	Applicable standards are: API610, IPS-G-PM-105, IPS-E-EL-131, IPS-E-EL-132.							
56	11	Refer to hazardous area classification layout, all instrumentation and electrical devices shall be suitable for: ZONE 1 & Gas group IIB, Temperature class T3							
57	12	For P&ID refer to BK-GCS-PEDCO-120-PR-PI-0020							
58	13	Minimum Design Metal Tem (MDMT) = 5							
59	14	About the operation of the two pumps (A/B) it should be noted that if liquid level of V-2201 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-0020)							
60	15	Design pressure of the suction vessel+ liquid height at vessel HLL at pump suction + pump differential pressure at rated flow of the pump							
61	16	H2S (ppm) at winter equal to 584.6013 & H2S (ppm) and at summer equal to 361.1246							
62	17	About the operation of the two pumps (A/B) it should be noted that if liquid level of V-2201 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-0020)							
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