



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

صادر کننده

PEDCO

تجهیزات

120

رشته

PR

نوع مدرک

DT

سریال

0025

نسخه

D05

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

D05	AUG.2024	AFC	M.Aryafar	M.Fakharian	M.Sadeghian	
D04	AUG.2023	AFC	M.Aryafar	M.Fakharian	A.M.Mohseni	
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-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:	پروژه	سته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳ از ۲
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	PR	DT	0025	D05	

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	D05	Page	D00	D01	D02	D03	D04	D05
1	X	X		X	X	X	65						
2	X	X		X	X	X	66						
3	X	X	X			X	67						
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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تو اکم گاز در ایستگاه جمع آوری سنک



PROCESS DATA SHEETS FOR FLARE K.O DRUM PUMPS

شماره پیمان:

• 03 - • 73 - 9184

شماره صفحه: ۳ از ۳

1	Note										2
2	GENERAL DATA										
3	Type										
4	☒ Centrifugal	☐ Positive displacement		☐ Vertical							
5	Centrifugal	☒ Horizontal		☐ Rotary	☐ Metering						
6	Positive displacement	☐ Reciprocating									
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	☐ Continuous	☒ Discontinuous	☐ Parallel	☒ 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.)	bar	0 / 0.50								
23	Discharge Pressure at Rated Capacity	bar	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	3.2				Note 15				
28	Max Allowable Pressure at Shut-Off	bar	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	☒ 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	bar	9.00		Note 15						
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		Note 7						
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						
45	Note										
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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