



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

احداث ردیف تو اکم گاز در ایستگاه جمع آوری بینک



PROCESS DATA SHEETS FOR SLUG PUMPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

PR

نوع مدرک

DT

سریال

0020

نسخه

D04

شماره صفحه: ۱ از ۳

## طرح نگهداشت و افزایش تولید ۲۷ مخزن

## PROCESS DATA SHEETS FOR SLUG PUMPS

## نگهداشت و افزایش تولید میدان نفتی بینک

D04	JAN.2023	AFC	M.Aryafar	M.Fakharian	M.Mehrshad	
D03	OCT.2022	IFA	M.Aryafar	M.Fakharian	M.Mehrshad	
D02	JUL.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-708764

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 SLUG PUMPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D04	0020	DT	PR	120	PEDCO	GCS	BK

شماره صفحه: ۳ از ۲

REVISION RECORD SHEET

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سطح الارض

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PROCESS DATA SHEETS FOR SLUG PUMPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه	بسته کاری	صادرکننده	تهیهات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	PR	DT	0020	D04

شماره صفحه: ۳ از ۳

1	Note								Rev		
2	<b>GENERAL DATA</b>										
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-2101 A/B	No. of Main/Stand By Units		1 / 1							
8	Service Slug Pumps	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	<b>CHARACTERISTICS OF HANDLED LIQUID</b>										
12	Type of Handled Liquid	Water + Hydrocarbon									
13	Pumping Temp.e (Min. / Max.)	°C	8.82 / 23.22								
14	Density at Min. / Norm / Max. Temp.	kg/m³	/ 715.80 /								
15	Viscosity At Min. / Normal / Max. Temp.	cP	/ 0.58 /								
16	Vapour Pressure at Max. Pumping Temp.	bara	6.5								
17	Freezing Point / Pour Point	°C									
18	Dissolved Gas	Yes-No	No								
19	Corrosive / Erosive / Hazardous Agents / Flammable	Yes-No	Yes / Yes / Yes / Yes								
20	Suspended solids (Type / Dimen. / Vol.%)	mm									
21	Sour Service	Yes									
22	<b>OPERATING CONDITIONS</b>										
23	Suction Pressure (Min/ Max.)	barg	5.5 / 5.75								
24	Discharge Pressure at Rated Capacity	barg	19.5								
25	Differential Pressure at Rated Capacity	bar	14								
26	Capacity (Min/Normal / Rated)	m³/hr	3.5 / 10 / 11			Note 1,7					
27	Head at Rated Capacity	m	199.5								
28	NPSH Available	m	0.9								
29	Max Allowable Pressure at Shut-Off	barg	23.30					Note 3			
30	Hydraulic Power	kW	4.3								
31	Reacceleration	Yes-No	No								
32	Automatic Start-Up	Yes-No	Yes								
33	Start-Up with Delivery Valve	<input checked="" type="checkbox"/> Open	<input type="checkbox"/> Close								
34	Flow Controlled By	<input type="checkbox"/> Pressure Controller	<input type="checkbox"/> Level Controller	<input checked="" type="checkbox"/> Flow Controller	<input type="checkbox"/> Other						
35	<b>DESIGN CONDITIONS</b>										
36	Design Temperature: Min / Max	°C	5 / 85								
37	Design Pressure	barg	23.30					Note3			
38	<b>MECHANICAL DATA</b>										
39	Contamination of Liquid Handled Allowed	Yes-No	Yes								
40	Air Entrainment Allowed	Yes-No	No								
41	Leaks Allowed	Yes-No	No					Note 4			
42	Antifreezing Protection	Yes-No	No								
43	Suction Line: Diameter	4"									
44	Discharge Line: Diameter	3"									
45	Mat. in Contact with Liq. Handled (Min.)	API 610, S-6					Note 6				
46	Note										
47	1	Design (rated) flow rates is 110 % of normal flow rate.									
48	2	DELETED									
49	3	finalized by vendor.									
50	4	in Sour service 1560-00-GEN-TI-SPC-0002.									
51	5	DELETED									
52	6	The Material shall be followed in accordance with NACE MR0175/ISO15156 and Technical Specification for Material Requirements									
53	7	DELETED									
54	8	H2S content is 6707.6 ppm									
55	9	Margin between NPSHA and NPSHR shall not be less than 1 m.									
56	10	API Plan 31+53B shall be considered.									
57	11	Applicable standards are: API610, IPS-G-PM-105, IPS-E-EL-131, IPS-E-EL-132. (Last revision of all standards).									
58	12	P&ID :BK-GCS-PEDCO-120-PR-PI-0004									
59	13	Minimum Design Metal Tem (MDMT) = 5									
60	14	Refer to hazardous area classification layout, all instrumentation and electrical devices shall be suitable for: ZONE 2 & Gas group IIA, Temperature class T3									
61	15	Pump is not installed directly on the ground and at least 20-30 cm height for pedestal is considered.									

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