

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 
	PROCESS DATA SHEETS FOR SLUG PUMPS							
شماره پیمان: 053 - 073 - 9184	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
	BK	GCS	PEDCO	120	PR	DT	0020	D02
								شماره صفحه: 1 از 3

طرح نگهداشت و افزایش تولید 27 مخزن

PROCESS DATA SHEETS FOR SLUG PUMPS

نگهداشت و افزایش تولید میدان نفتی بینک

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: 2	COMPANY Doc. Number: F0Z-708764
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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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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



PROCESS DATA SHEETS FOR SLUG PUMPS

شماره پیمان:

053 - 073 - 9184

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D02	0020	DT	PR	120	PEDCO	GCS	BK

شماره صفحه: 2 از 3

REVISION RECORD SHEET

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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



PROCESS DATA SHEETS FOR SLUG PUMPS

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

PR

نوع مدرک

DT

سریال

0020

نسخه

D02

شماره صفحه: 3 از 3

1	Note		Rev
2	GENERAL DATA		
3	Type		
4	☒ Centrifugal ☐ Positive displacement		
5	☒ Centrifugal ☐ Horizontal		
6	☐ Positive displacement ☐ Reciprocating		
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 ☐ Continuous ☒ Discontinuous	☐ Parallel ☒ Single	
10	Type of Driver	Electrical Motor	
11	CHARACTERISTICS OF HANDLED LIQUID		
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 / Yes / Yes / Yes	
20	Suspended solids (Type / Dimen. / Vol.%)	mm	
21	Sour Service	Yes	
22	OPERATING CONDITIONS		
23	Suction Pressure (Min/ Max.)	barg 5.5 / 5.75	
24	Discharge Pressure at Rated Capacity	barg 17	
25	Differential Pressure at Rated Capacity	bar 14	
26	Capacity (Normal / Rated)	m³/hr 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 22.50 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 ☒ Open ☐ Close		
34	Flow Controlled By ☐ Pressure Controller ☐ Level Controller ☒ Flow Controller ☐ Other		
35	DESIGN CONDITIONS		
36	Design Temperature: Min / Max	°C 5 / 85	
37	Design Pressure	barg 24.10 Note3	
38	MECHANICAL DATA		
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-8 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 IIB, 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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