

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 		
	PROCESSS DATA SHEETS FOR CHEMICAL INJECTION PACKAGES								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته PR	نوع مدرک DT	سریال 0031	نسخه D00	شماره صفحه: ۱ از ۵

طرح نگهداشت و افزایش تولید ۲۷ مخزن

PROCESSS DATA SHEETS FOR CHEMICAL INJECTION PACKAGES

نگهداشت و افزایش تولید میدان نفتی بینک

D00	MAY.2022	IFC	M.Aryafar	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 2 CLIENT Doc. Number: F0Z-708775

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
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

PROCESS DATA SHEETS FOR CHEMICAL INJECTION PACKAGES



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D00	0031	DT	PR	120	PEDCO	GCS	BK

شماره صفحه: ۲ از ۵

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	Page	D00	D01	D02	D03	D04
1	X					65					
2	X					66					
3	X					67					
4	X					68					
5	X					69					
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 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
		PROCESS DATA SHEETS FOR CHEMICAL INJECTION PACKAGES								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		پروژه BK	بسته کاری GCS	صادرکننده PEDCO	تسهیلات 120	رشته PR	نوع مدرک DT	سریال 0031	نسخه D00	شماره صفحه: ۵ از ۳

1	Note											Rev.	
2		Item No. PK-2208				Service of Unit Methanol Injection Package							
3		No. Required Working 1 Standby 0 Tota 1				Operation 1							
4		Injection System for ☐ Deaerator ☐ Boiler ☒ Sour Gas ☐ Cooling tower											
5		Liquid Injected ☒ Methanol ☐ Morpholine ☐ Na ₂ SO ₄ ☐ Sludge Dispersant ☐ Ammonia											
6		☐ Corrosion Inhibitor ☐ Phosphate ☐ ETC (Oxygen Scavenger)											
7		INJECTION LIQUID											
8		Liquid METHANOL				Temperature	AMB	°C	Spec. Gravity	0.76	Dilution	No	
9		Injection Flow	L/hr	Min.	12.8	Rated	15.734	Viscosity	0.37	cP	Vap. Pressure	kPa	
10		Flow Rate to be Treated				m3/hr		Corrosive/Toxic Fluid		NO / Yes			
11		Make Up Solvent											
12		Pressure Required at Injection Point				62		barg					
13		INJECTION PUMP					DRUM						
14		Item No. -					Item No.		No. Required		1		
15		Service Methanol injection pump					Servic		Methanol Storage Drum				
16		No. Required	2	Working	1	Standby	1	Storage Time	Min or Days		7 day		
17		Flow Nor.	-			L/hr	Capacity	m ³		1			
18		Flow Rated	15.734			L/hr	Design Pressure	barg		3.5			
19		Press. At Discharge	62			barg	Design Temp.	°C		55			
20		5 Press. At Suction	0			barg	Operating Press	barg		ATM			
21		Type	Reciprocating				Operating Temp	°C		AMB			
22		1 Cylinder/Case					Type			Horizontal			
23		1 Plunger/Int					Size	mm		By Vendor			
24		1/8 Diaphragm					Thickness	mm		By Vendor			
25		8 BHP	0.09			kW	Mat.			By Vendor			
26		4 Capacity Control range %	0~100 %				Accessories	Level Gauge	☒		Measuring Cup	☐	
27		Capacity Control					Baffles	☐	Level Switch	☐	Inner Basket	☐	
28		Manual	☒	Automatic	☐	Speed Control	☐	Floating Cover	☒	Steam Bubbling	☐		
29		Stroke Adjustment	☒	During Operation			☐	Level Transmitter	☒	Heater	☐	Steam	☐
30		AGITATOR											
31		Item No. -					Service		Methanol				
32		No. Req'd. 1					Mat.		by vendor				
33		Type	Mechanical	☒	Pulsator	☐	Hand-Operation		☐				
34		ACCESSORIES											
35		Strainers	☒	Relief Valves	☒	Pulsation Dampener	☒	Colibration Pot	☒	Pump Pressure Gauge	☒		
36		Sample Connection ☐											
37		INSTALLATION											
38		Outdoor	☐	Under Roof	☒	Indoor	☐	Heated	☐	Unheated	☐		
39		Winterization Required	☐	Tropical Req'd.			☐	Grade	☐				
40		Hazardous Area Class											
41		Site AMB. Temp Min/Max		5 / 55		°C							
42													

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
		PROCESS DATA SHEETS FOR CHEMICAL INJECTION PACKAGES								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته PR	نوع مدرک DT	سریال 0031	نسخه D00	شماره صفحه: ۴ از ۵

1	Note											Rev.	
2		Item No. PK-2207					Service of Unit Corrosion Inhibitor						
3		No. Required Working 1 Standby 0 Total 1					Operation 1						
4		Injection System for ☐ Deaerator ☐ Boiler ☒ Sour Gas ☐ Cooling tower											
5		Liquid Injected ☐ Methanol ☐ Morpholine ☐ Na ₂ SO ₄ ☐ Sludge Dispersant ☐ Ammonia											
6		☒ Corrosion Inhibitor ☐ Phosphate ☐ ETC (Oxygen Scavenger)											
7		INJECTION LIQUID											
8		Liquid CORROSION INHIBITOR					Temperat _i AMB °C Spec. Gravity 0.82 ~ 0.86 Dilution BY DEISEL						
9		Injection Flow L/hr		Nor. -		Rated 2.2		Viscosity 2 ~ 5.5 cP			Vap. Pressure kPa		
10		Flow Rate to be Treated m ³ /h					Corrosive/Toxic Fluid NO / Yes						
11		Make Up Solvent											
12		Pressure Required at Injection Point (At Low Press) / 62 (At High Press barg)											
13		INJECTION PUMP					Tank						
14		Service Corrosion inhibitor injection pumps					Item No. -		No. Required 1				
15		High Pressure consumers		Low Pressure consumers			Servic		Corrosion Inhibitor				
16		No. Required 2 (1Working/1Standby)		2 (1Working/1Standby)			Storage Time		Min or Days		day		
17		Flow Nor. -		-			L/hr Capacity		m ³		1		
18		Flow Rated 3		3			M ³ /hr Design Pressure		barg		Atm. + Full of Water		
19		Press. At Discharge 62		9			barg Design Temp.		°C		55		
20		5 Press. At Suction 0		0			barg Operating Press		barg		ATM		
21		Type Reciprocating		Reciprocating			Operating Temp		°C		AMB		
22		1 Cylinder/Case					Type		Vertical				
23		1 Plunger/Int					Size mm		By Vendor				
24		1/8 Diaphragm					Thickness mm		By Vendor				
25		8 BHP 0.01		0.002			kW Mat.		S.S				
26		4 Capacity Control range 0~100 %		0~100 %			Accessories		Level Gauge ☒ Measuring Cup ☐				
27		Capacity Control					Baffles ☐ Level Switch ☐ Inner Basket ☐						
28		Manual ☒ Automatic ☐ Speed Control ☐					Floating Cover ☒ Steam Bubbling ☐						
29		Stroke Adjustment ☒ During Operation ☐					Level Transmitter ☒ Heater ☐ Steam ☐ Elect. ☐						
30		AGITATOR											
31		Item No. -					Service Corrosion Inhibitor						
32		No. Req'd. 1					Mat. by vendor						
33		Type Mechanical ☒ Pulsator ☐ Hand-Operation ☐											
34		ACCESSORIES											
35		Strainers ☒ Relief Valves ☒ Pulsation Dampener ☒ Colibration Pot ☒ Pump Pressure Gauge ☒											
36		Sample Connection ☐											
37		INSTALLATION											
38		Outdoor ☐ Under Roof ☒ Indoor ☐ Heated ☐ Unheated ☐											
39		Winterization Required ☐ Tropical Req'd. ☐ Grade ☐											
40		Hazardous Area Class											
41		Site AMB. Temp Min/Max 5/55 °C											
42													



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

PROCESS DATA SHEETS FOR CHEMICAL INJECTION PACKAGES



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادرکننده

PEDCO

تسهیلات

120

رشته

PR

نوع مدرک

DT

سریال

0031

نسخه

D00

شماره صفحه: ۱۵ از ۵

Note

Rev.

1 To be specified by package vendor

2 Methanol injection pump capacities are preliminary and will be finalized after receiving chemical supplier data.

3 Corrosion inhibitor injection pump capacities are preliminary and will be finalized after receiving chemical supplier data.

4 High Pressure consumers =(Gas Discharge Drum Outlet + Gas Pipeline Pig Launcher)
Low Pressure consumers =(Gas Pig Receiver Outlet + Gas Pig Receiver Outlet + Fuel Gas K.O. Drum + Inlet K.O. Drum Outlet).

5 To be specified by EPC/skid vendor based on pump NPSH and piping requirement

6 Metallic hose connection to be provided for chemical transfer

7 Minimum requirement

8 By vendor

9 PSV set pressure is 60 barg (will be finalized by vendor)

10 For details refer to PID No. BK-GCS-PEDCO-120-PR-PI-0018 & BK-GCS-PEDCO-120-PR-PI-0018

11 The corrosion inhibitor package is in hazardous area

12 Capacity of crrosion inhibitor tank is estimated for 7 days storage at rated pump capacity.