



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0019

نسخه

D02

شماره صفحه: 1 از 6

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER

نگهداشت و افزایش تولید میدان نفتی بینک

D02	MAY.2023	AFC	P.Hajisadeghi	M.Fakharian	A.M.Mohseni	
D01	DEC.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	APR.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 1

CLIENT Doc. Number: F9Z-708939

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

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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

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120

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0019

نسخه

D02

شماره صفحه: 2 از 6

REVISION RECORD SHEET

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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 3 از 6
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0019	D02	

REFERENCE DOCUMENTS :

Specification For Instrumentation	BK-GNRAL-PEDCO-000-IN-SP-0001
Process Basis Of Design	BK-GNRAL-PEDCO-000-PR-DB-0001
Piping Material Specification	BK-GCS-PEDCO-120-PI-SP-0001
Hazardous Area Classification Layout	BK-GCS-PEDCO-120-SA-PY-0002
Instrument & Control System Design Criteria	BK-GCS-PEDCO-120-IN-DC-0002
Symbol & Legend For PFD and P&ID	BK-GCS-PEDCO-120-PR-PI-0001
P&ID - Gas Compression Inlet Gas Pipeline (Binak)	BK-GCS-PEDCO-120-PR-PI-0002
P&ID - Gas Compression Inlet Gas Pipeline (Golkhari)	BK-GCS-PEDCO-120-PR-PI-0003
P&ID - Slug Catcher System	BK-GCS-PEDCO-120-PR-PI-0004
P&ID - Gas Compression Inlet Knock Out Drum	BK-GCS-PEDCO-120-PR-PI-0005
P&ID - 1st Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0006
P&ID - 1st Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0007
P&ID - 1st Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0008
P&ID - 2nd Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0009
P&ID - 2nd Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0010
P&ID - 2nd Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0011
P&ID - 2nd Stage Gas Compression Discharge Drum	BK-GCS-PEDCO-120-PR-PI-0012
P&ID - Gas Compression Dehydration Package	BK-GCS-PEDCO-120-PR-PI-0013
P&ID - Lean Glycol Storage Tank	BK-GCS-PEDCO-120-PR-PI-0014
P&ID - Instrument & Plant Air System	BK-GCS-PEDCO-120-PR-PI-0015
P&ID - Nitrogen Generation System	BK-GCS-PEDCO-120-PR-PI-0016
P&ID - Close Drain System	BK-GCS-PEDCO-120-PR-PI-0017
P&ID - Corrosion Inhibitor Package	BK-GCS-PEDCO-120-PR-PI-0018
P&ID - Methanol Injection Package	BK-GCS-PEDCO-120-PR-PI-0019
P&ID - LP Flare System	BK-GCS-PEDCO-120-PR-PI-0020
P&ID - Oily Water Sewer	BK-GCS-PEDCO-120-PR-PI-0021
P&ID - Fuel Gas System	BK-GCS-PEDCO-120-PR-PI-0022
P&ID - Diesel Oil System	BK-GCS-PEDCO-120-PR-PI-0023
P&ID - Potable Water System	BK-GCS-PEDCO-120-PR-PI-0024
P&ID - Glycol Sump Drum	BK-GCS-PEDCO-120-PR-PI-0025
P&ID - Fire Water Network	BK-GCS-PEDCO-120-SA-PI-0001
P&ID - Total Flooding System For Extension of Existing Elect. Building	BK-GCS-PEDCO-120-SA-PI-0002



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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0019

نسخه

D02

شماره صفحه: 4 از 6

GENERAL NOTES:

- 1- All transmitters shall have output short circuit & reverse polarity protection.
- 2- Tag plate as per Specification for Instrumentation, shall be stainless steel 304 SS (VTC). Following details shall be engraved on them:
 - Tag Number
 - Range Limit
 - Service
 - Manufacture Model
- 3- Sunshade to be considered for all transmitters.
- 4- Each transmitter shall have a none-volatile EEprom memory to be used for storing the configuration data and sensor linearization data. This data must be retained in the transmitter to be functional upon power up.
- 5- Vendor shall identify and detail any deviation from the present instrument datasheet.
- 6- All transmitters shall be equipped with internal diagnostics software.
- 7- Push button for span and zero adjustment for all transmitters to be considered by vendor.
- 8- Indicator scale output configuration for LT tag nos. to be linear.
- 9- Environmental condition for field instrumentation of Binak oilfield shall be considered as per the following (According to "BK-GNRAL-PEDCO-000-PR-DB-0001: Process Basis Of Design":

Maximum ambient temperature: 50 (°C)
 Minimum ambient temperature: 5 (°C)
 Maximum steel surface exposed to sun: 85 (°C)
 Maximum summer dry bulb: 50 (°C)
 DB/RH for Summer HVAC Design: 41 °C / 61 %
 DB FOR Winter HVAC Design: 6 °C

Relative Humidity:

- Maximum Design relative humidity (%): 100
- Minimum Design relative humidity (%): 0

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
		DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER								
شماره پیمان: 053 - 073 - 9184		پروژه BK	بسته کاری GCS	صادرکننده PEDCO	تسهیلات 120	رشته IN	نوع مدرک DT	سریال 0019	نسخه D02	شماره صفحه: 5 از 6
DATA SHEETS FOR LEVEL TRANSMITTER (DPT TYPE)										
GENERAL DATA	1	Tag No.						SEE PAGE 6,7		
	2	P & ID No.						SEE PAGE 6,7		
	3	Equipment No.						SEE PAGE 6,7		
	4	Area Clacification						Zone 2, IIB T4		
	5	RFI Protection		Tropicalisation				NEEDED		NEEDED
OPERATING CONDITIONS	6	Fluid						SEE PAGE 6,7		
	7	Phase						SEE PAGE 6,7		
	8	Operating Pressure		Design Pressure		(barg)		SEE PAGE 6,7		SEE PAGE 6,7
	9	Operating Temperature		Design Temperature		(°C)		SEE PAGE 6,7		SEE PAGE 6,7
TRANSMITTER	10	Element Type						Differential Pressure		
	11	Process Connection						SEE PAGE 6,7		
	12	Element Material						SEE PAGE 6,7		
	13	Enclosure Material						Die-Cast Aluminium		
	14	Instrument Range						SEE PAGE 6,7		
	15	Write Protection						SEE PAGE 6,7 (Note 2)		
	16	Power Supply						24 VDC-Loop powered		
	17	Output Signal						(4-20 mA) HART communication protocol		
	18	Electrical Connection						ISO M20 x 1.5		
	19	Electrical Certification						Eex ia -IIB T4		
	20	Ingress Protection						IP-65 as minimum		
	21	Accuracy						+/- 0.1 % Full Scale		
	22	Repeatability						+/- 0.1% or better		
	23	Span and Zero Adjustment						Required		
DIAPHRAGM SEAL	24	Over Range Protection						1.3 of F.S		
	25	Type						N/A		
	26	Size (In)						N/A		
	27	Fill Fluid						N/A		
	28	Diaphragm Material						N/A		
	29	Capillary Material						N/A		
	30	Instrument Connection						N/A		
OPTIONS	31	Capillary Length						N/A		
	32	Integral Indicator						Required		
	33	Mounting Brackets						Required, 2" Support Pipe		
	34	Manifold		Body Material		SEE PAGE 6,7		316SS		
	35	Connection						N/A		
	36	Manifold Model		Manifold Manufacturer		VTA		VTA		
	37	Local Indication Requirement						Required in Digital Display, LCD type		
	38	NACE Requirement		Manufacture		SEE PAGE 6,7				
PURCHASING DATA	39	Model		Order		will be finalized later		will be finalized later		
	40	Supplier		Manufacturer		will be finalized later		will be finalized later		
	41									
NOTES : VTA : VENDOR TO ADVISE (1) Reference Document: General Specification for Instrumentation "BK-GNRAL-PEDCO-000-IN-SP-0001" (2) The transmitters which shall be write protected are identified by note 2 in sheet 7. (Also see note 2 in sheet 7)										



DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER



شماره صفحه: 6 از 6

شماره پیمان:

0104

سته کاری

صادر کنندہ

تعميمات

452

نو ۶ مدرکی

سرویل

بخه

053 - 073 - 9184

BK

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LEVEL TRANSMITTERS (DPT TYPE) LIST

D02

NOTE:	
(1) G: GAS	L: LIQUID
(2) Transmitters shall be of the smart transmitter type with HART communication protocol, except those connected to the ESD/HIPPS/FGS system that will be preferably of conventional electronic type. If smart type transmitters are selected for ESD application they shall be configured as "write protected".	
(3) Instrument range shall be finalized & filled by vendor.	
(4) LT connection to Vessel and required accessories to be considered as per Hook up drawing.	



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سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER

شماره پیمان:

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شماره صفحه: 1 از 6

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER

نگهداشت و افزایش تولید میدان نفتی بینک

D02	MAY.2023	AFC	P.Hajisadeghi	M.Fakharian	A.M.Mohseni	
D01	DEC.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	APR.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 1

CLIENT Doc. Number: F9Z-708939

status:

IDC: Inter-Discipline Check

IFC: Issued For Comment

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DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER

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	DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER							
شماره پیمان: 053 - 073 - 9184	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
	BK	GCS	PEDCO	120	IN	DT	0019	D02
شماره صفحه: 3 از 6								

REFERENCE DOCUMENTS :

Specification For Instrumentation	BK-GNRAL-PEDCO-000-IN-SP-0001
Process Basis Of Design	BK-GNRAL-PEDCO-000-PR-DB-0001
Piping Material Specification	BK-GCS-PEDCO-120-PI-SP-0001
Hazardous Area Classification Layout	BK-GCS-PEDCO-120-SA-PY-0002
Instrument & Control System Design Criteria	BK-GCS-PEDCO-120-IN-DC-0002
Symbol & Legend For PFD and P&ID	BK-GCS-PEDCO-120-PR-PI-0001
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P&ID - Gas Compression Inlet Gas Pipeline (Golkhari)	BK-GCS-PEDCO-120-PR-PI-0003
P&ID - Slug Catcher System	BK-GCS-PEDCO-120-PR-PI-0004
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P&ID - Lean Glycol Storage Tank	BK-GCS-PEDCO-120-PR-PI-0014
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P&ID - Methanol Injection Package	BK-GCS-PEDCO-120-PR-PI-0019
P&ID - LP Flare System	BK-GCS-PEDCO-120-PR-PI-0020
P&ID - Oily Water Sewer	BK-GCS-PEDCO-120-PR-PI-0021
P&ID - Fuel Gas System	BK-GCS-PEDCO-120-PR-PI-0022
P&ID - Diesel Oil System	BK-GCS-PEDCO-120-PR-PI-0023
P&ID - Potable Water System	BK-GCS-PEDCO-120-PR-PI-0024
P&ID - Glycol Sump Drum	BK-GCS-PEDCO-120-PR-PI-0025
P&ID - Fire Water Network	BK-GCS-PEDCO-120-SA-PI-0001
P&ID - Total Flooding System For Extension of Existing Elect. Building	BK-GCS-PEDCO-120-SA-PI-0002



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



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شماره صفحه: 4 از 6

GENERAL NOTES:

- 1- All transmitters shall have output short circuit & reverse polarity protection.
- 2- Tag plate as per Specification for Instrumentation, shall be stainless steel 304 SS (VTC). Following details shall be engraved on them:
 - Tag Number
 - Range Limit
 - Service
 - Manufacture Model
- 3- Sunshade to be considered for all transmitters.
- 4- Each transmitter shall have a none-volatile EEprom memory to be used for storing the configuration data and sensor linearization data. This data must be retained in the transmitter to be functional upon power up.
- 5- Vendor shall identify and detail any deviation from the present instrument datasheet.
- 6- All transmitters shall be equipped with internal diagnostics software.
- 7- Push button for span and zero adjustment for all transmitters to be considered by vendor.
- 8- Indicator scale output configuration for LT tag nos. to be linear.
- 9- Environmental condition for field instrumentation of Binak oilfield shall be considered as per the following (According to "BK-GNRAL-PEDCO-000-PR-DB-0001: Process Basis Of Design":

Maximum ambient temperature: 50 (°C)
 Minimum ambient temperature: 5 (°C)
 Maximum steel surface exposed to sun: 85 (°C)
 Maximum summer dry bulb: 50 (°C)
 DB/RH for Summer HVAC Design: 41 °C / 61 %
 DB FOR Winter HVAC Design: 6 °C

Relative Humidity:

- Maximum Design relative humidity (%): 100
- Minimum Design relative humidity (%): 0

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
		DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER								
شماره پیمان: 053 - 073 - 9184		پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 5 از 6
		BK	GCS	PEDCO	120	IN	DT	0019	D02	
DATA SHEETS FOR LEVEL TRANSMITTER (DPT TYPE)										
GENERAL DATA	1	Tag No.						SEE PAGE 6,7		
	2	P & ID No.						SEE PAGE 6,7		
	3	Equipment No.						SEE PAGE 6,7		
	4	Area Clacification						Zone 2, IIB T4		
	5	RFI Protection		Tropicalisation				NEEDED		NEEDED
OPERATING CONDITIONS	6	Fluid						SEE PAGE 6,7		
	7	Phase						SEE PAGE 6,7		
	8	Operating Pressure		Design Pressure		(barg)		SEE PAGE 6,7		SEE PAGE 6,7
	9	Operating Temperature		Design Temperature		(°C)		SEE PAGE 6,7		SEE PAGE 6,7
TRANSMITTER	10	Element Type						Differential Pressure		
	11	Process Connection						SEE PAGE 6,7		
	12	Element Material						SEE PAGE 6,7		
	13	Enclosure Material						Die-Cast Aluminium		
	14	Instrument Range						SEE PAGE 6,7		
	15	Write Protection						SEE PAGE 6,7 (Note 2)		
	16	Power Supply						24 VDC-Loop powered		
	17	Output Signal						(4-20 mA) HART communication protocol		
	18	Electrical Connection						ISO M20 x 1.5		
	19	Electrical Certification						Eex ia -IIB T4		
	20	Ingress Protection						IP-65 as minimum		
	21	Accuracy						+/- 0.1 % Full Scale		
	22	Repeatability						+/- 0.1% or better		
	23	Span and Zero Adjustment						Required		
DIAPHRAGM SEAL	24	Over Range Protection						1.3 of F.S		
	25	Type						N/A		
	26	Size (In)						N/A		
	27	Fill Fluid						N/A		
	28	Diaphragm Material						N/A		
	29	Capillary Material						N/A		
	30	Instrument Connection						N/A		
OPTIONS	31	Capillary Length						N/A		
	32	Integral Indicator						Required		
	33	Mounting Brackets						Required, 2" Support Pipe		
	34	Manifold		Body Material		SEE PAGE 6,7		316SS		
	35	Connection						N/A		
	36	Manifold Model		Manifold Manufacturer		VTA		VTA		
	37	Local Indication Requirement						Required in Digital Display, LCD type		
	38	NACE Requirement		Manufacture		SEE PAGE 6,7				
PURCHASING DATA	39	Model		Order		will be finalized later		will be finalized later		
	40	Supplier		Manufacturer		will be finalized later		will be finalized later		
	41									
NOTES : VTA : VENDOR TO ADVISE (1) Reference Document: General Specification for Instrumentation "BK-GNRAL-PEDCO-000-IN-SP-0001" (2) The transmitters which shall be write protected are identified by note 2 in sheet 7. (Also see note 2 in sheet 7)										



DATA SHEETS FOR DIFF. PRESSURE TYPE LEVEL TRANSMITTER



شماره صفحه: 6 از 6

شماره پیمان:

0104

بسته کاری

مصادر کنندہ

تَصَوُّلات

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نوع مداری

سدريال

سبحه

053 - 073-9184

BK

GCS

REDCO

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IN

DT

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D0

LEVEL TRANSMITTERS (DPT TYPE) LIST

D02

NOTE:	
(1) G: GAS	L: LIQUID
(2) Transmitters shall be of the smart transmitter type with HART communication protocol, except those connected to the ESD/HIPPS/FGS system that will be preferably of conventional electronic type. If smart type transmitters are selected for ESD application they shall be configured as "write protected".	
(3) Instrument range shall be finalized & filled by vendor.	
(4) LT connection to Vessel and required accessories to be considered as per Hook up drawing.	