

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض عمومی و مشترک							  	
	DATA SHEETS FOR PRESSURE GAUGE - WELLHEADS								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری SSGRL	صادرکننده PEDCO	تسهیلات 110	رشته IN	نوع مدرک DT	سریال 0002	نسخه D03	شماره صفحه: ۱ از ۶

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR PRESSURE GAUGE - WELLHEADS

نگهداشت و افزایش تولید میدان نفتی بینک

D03	APR.2023	AFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D02	JUL.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D01	FEB.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	DEC.2021	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-707369

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
فعالیت های روزمینی در بسته های کاری تحت الارض

عمومی و مشترک

DATA SHEETS FOR PRESSURE GAUGE - WELLHEADS



شماره صفحه: ۶ از ۲

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

SSGRL

صادرکننده

PEDCO

تسهیلات

000

رشته

IN

نوع مدرک

DT

سریال

0002

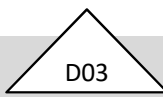
نسخه

D03

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	Page	D00	D01	D02	D03	D04
1	X	X	X	X		65					
2	X	X	X	X		66					
3	X	X		X		67					
4	X	X				68					
5	X	X	X			69					
6	X	X	X			70					
7	X	X				71					
8	X	X		X		72					
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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض عمومی و مشترک							 	
	DATA SHEETS FOR PRESSURE GAUGE - WELLHEADS								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳ از ۶
	BK	SSGRL	PEDCO	000	IN	DT	0002	D03	

REFERENCE DOCUMENTS:		
1- SPECIFICATION FOR INSTRUMENTATION		BK-GNRAL-PEDCO-000-IN-SP-0001
2-PIPELINE MATERIAL SPECIFICATION		BK-SSGRL-PEDCO-110-PL-SP-0001
3-PIPING MATERIAL SPECIFICATION		BK-SSGRL-PEDCO-110-PI-SP-0001
4- PIPING & INSTRUMENT DIAGRAM:		
P&ID - W018S		BK-W018S-PEDCO-110-PR-PI-0001
P&ID - W028		BK-W028-PEDCO-110-PR-PI-0001
P&ID - W035		BK-W035-PEDCO-110-PR-PI-0001
P&ID - W008N		BK-W008N-PEDCO-110-PR-PI-0001
P&ID - W007S		BK-W007S-PEDCO-110-PR-PI-0001
P&ID - W046S		BK-W046S-PEDCO-110-PR-PI-0001
5-PROCESS FLOW DIAGRAM (PFD)		BK-GCS-PEDCO-120-PR-PF-0001
6-INSTRUMENT & CONTROL SYSTEM DESIGN CRITERIA		BK-SSGRL-PEDCO-110-IN-DC-0002
7- SPECIFICATION FOR WHCP/HPU		BK-SSGRL-PEDCO-110-IN-SP-0001



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نگهداشت و افزایش تولید میدان نفتی بینک
فعالیت های روزمینی در بسته های کاری تحت الارض
عمومی و مشترک



DATA SHEETS FOR PRESSURE GAUGE - WELLHEADS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D03	0002	DT	IN	000	PEDCO	SSGRL	BK

شماره صفحه: ۶۱۴

GENERAL NOTES:

- 1- Pressure elements shall be capable of withstanding intermittent over-ranging to 1.3 times the maximum scale reading.
- 2- Ranges shall be selected suitable to have the operating pressure in the middle third of the scale.
- 3- Vendor is responsible for applying suitable accessories to prevent damage and to reach required accuracy for PI.
- 4- Vendor to follow materials indicated in the Data Sheets, related wetted parts, these materials can be as minimum and shall be verified by vendor.
- 5- All field instruments shall be furnished with a stainless steel corrosion resistant nameplate permanently fastened with screws and stamped as follows and as applicable:
 - Vendor's name
 - Model number
 - Serial number
 - Instrument tag number
 - Operating range
 - hazardous area certification & certification agency name
 - Pressure rating
- 6- Weep hole shall be provided on the case bottom of all gauges.
- 7- Material Test Certificate and Calibration Certificate for all gauges to be submitted by vendor.
- 8- Each pressure gauge which doesn't have Diaphragm Seal shall be supplied with a Two valve manifold (block & bleed manifold) (Process Conn. 1/2"NPTF, 316 S.S.). Manifold to be supplied by vendor
- 9- Environmental Condition For Field Instrumentation Of BINAK Oil field Shall Be Considered As Per The Following:
 - Minimum ambient temperature (°C): -5 °C
 - Maximum ambient temperature (°C): 50 °C
 - Maximum steel surface exposed to sun (°C): 85 °C
 - Maximum Design relative humidity: 100%
 - Minimum Design relative humidity: 0%

 NISOC	تجهیزات و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض عمومی و مشترک							 
	DATA SHEETS FOR PRESSURE GAUGE - WELLHEADS							شماره صفحه: 5 از 6
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیه کننده	رشته	نوع مدرک	سرمال	لحظه
-20° - -Y2 - -11AT	BK	SSGRL	PEDCO	000	IN	DT	0002	D03

Pressure Gauge						
GENERAL	1	Item			See List	
	2	Tag Number			See List	
	3	Service			See List	
	4	Line Number /Equipment			See List	
	5	P&ID No.			See List	See List
PROCESS CONDITIONS	6	Fluid	Fluid State	See List	See List	
	7	Oper. Pressure	Design Pressure (barg)	See List	bar-g	See List bar-g
	8	Oper. Temp.	Design Temp. (°C)	See List	See List °C	
MANIFOLD	9	Manifold Type	Manifold Material	2-valve (block & bleed manifold) (Note 6)		S.S 316
	10	Connection	Manifold Rating	1/2" NPTF (note 2)		Note 7
CASE	11	Case Type	Case Style	Filled type (with silicon oil)(note 4)		vapour tight and weather proof (IP 65)
	12	Case Material	Case Size	stainless steel 304		150 mm
	13	Case Pressure Relief			Yes	
	14	Conn. Location	Proc. Connection/ Rating	Direct Mounted from Bottom		1/2" NPTM/ See List
	15	Ring Style	Ring Material	VTA		316 S.S.
	16	Mounting Type	Blow-out protection	Local		Back
	17	Socket Material			316 S.S.	
	18	Window Material			Shatterproof glass	
	19	Seal / O-Ring Material			VTA	
ELEMENT	20	Liquid Fill Material			VTA	
	21	Element Type	Element Material	Bourdon (note 3, 8)		316 S.S.(note 1)
	22	Movement Style	Movement Material	VTA		316 S.S.
	23	Over Range Protection			1.3 times of maximum operating pressure	
	24	Accuracy			±0.6 % of F.S.	
	25	Internal Stop			Yes	
	26	Measuring Range			See List	bar-g
DIAL	27	Dial Scale Type	Dial Material	Dual indicating scales (barg/psig)		aluminum
	28	Dial Color			Black marks on white background	
	29	Zero Adjustment			Adjustable pointer (note 5)	
ACCESSORY	30	Syphon	Material	See List		316 S.S. (Note 1)
	31	Pulsation Damper	Material	See List ,see 'P.D.' tab column		316 S.S. (Note 1)
	32	Over Press. Protector	Material	See List		VTA
	33	End Connection			1/2" NPT (note 2)	
DIAPHRAGM SEAL (Note 9)	34	Seal Type			N/A	
	35	Instrument Conn.	Process Conn.	N/A		N/A
	36	Diaphragm Extension Length			N/A	
	37	Diaphragm Material			N/A	
	38	Capillary Material	Capillary Length	N/A		N/A
	39	Housing Mtrl.	Lower	N/A		N/A
	40	Bolting Material			N/A	
	41	Gasket / O-Ring Material			N/A	
	42	Fill Fluid Material			N/A	
SPECIAL	43	Note	NACE MR0175/ISO 15156 Compliance	See List	See List (Note 1)	
PURCHASE	44	Manufacturer			WILL BE FINALIZED LATER	
	45	Model			WILL BE FINALIZED LATER	

Notes:
VTA : Vendor to Advise
N/A: Not Applicable

1 : Wetted part shall be according To MR0175/ISO 15156 as per table page 6.
2: 1/2"NPT for Instrument/Process connection and 1/4" NPTF for Drain Connection-All Manifolds ,Pulsation Dampners and Syphons shall be suitable for connecting to gauges.
3: Suitable element type for gauge to be confirmed by vendor .
4: Cases for pressure gauges shall be solid front stainless steel.
5: Gauge pointer shall be adjustable (micro meter adjustment) without removal from pinion shaft.
6: Valves manifold with mounting bracket, u-bolts and nuts shall be supplied by vendor.
7: For manifold rating, Bolt & Gasket material refer to "Piping and Pipeline Material Specification No.: BK-SSGRL-PEDCO-110-PL-SP-0001"
8: Over-range stopper shall be provided for the over-range limit.

 NISOC			نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روز زمینی در سته های کاری تحت الارض عمومی و مشترک							 HUBCAN			 گسترش میدان نفتی					
شماره پیمان:			DATA SHEETS FOR PRESSURE GAUGE - WELLHEADS							شماره سند: ۴۰۶								
			نوع سازه	نوع سازه	نوع سازه	نوع سازه	نوع سازه	نوع سازه	نوع سازه									
۰۳ - ۰۷ - ۱۳۸۴			BK	SSGRL	PEDCO	000	IN	DT	0002	D03								

Item	Tag No.	Service	P&ID	Equipment/ Line No. D03	Fluid	State	Pressure Measuring Range (barg)	Press. Oper. (barg)	Press. Des. (barg) D03	Oper. Tem. (°C)	Design Tem. (°C) D03	Diaphragm Seal Requirement	NACE	Syphon	P.D.	Over Range Protection (NOTE 1)	Conn. Rating D03	Remark	REVISION
1	PG-1201	W0075	BK-W0075-PEDCO-110-PR-PI-0002	CRD-110-160-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	80.0	105	NO	Yes	NO	NO	YES	9000#		
2	PG-1202	W0075	BK-W0075-PEDCO-110-PR-PI-0002	CRD-110-121-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-40 (Note 1)	16.38	207	80.0	105	NO	Yes	NO	NO	YES	9000#		
3	PG-1203	W0075	BK-W0075-PEDCO-110-PR-PI-0002	CRD-110-121-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	80.0	105	NO	Yes	NO	NO	YES	9000#	D03	
4	PG-1601	W008N	BK-W008N-PEDCO-110-PR-PI-0001	CRD-110-160-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	75.0	100	NO	Yes	NO	NO	YES	9000#		
5	PG-1602	W008N	BK-W008N-PEDCO-110-PR-PI-0001	CRD-110-161-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-25 (Note 1)	12	207	74.0	100	NO	Yes	NO	NO	YES	9000#		
6	PG-1603	W008N	BK-W008N-PEDCO-110-PR-PI-0001	CRD-110-160-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	75.0	100	NO	Yes	NO	NO	YES	9000#	D03	
7	PG-1101	W018S	BK-W018S-PEDCO-110-PR-PI-0001	CRD-110-110-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	75.0	100	NO	Yes	NO	NO	YES	9000#		
8	PG-1102	W018S	BK-W018S-PEDCO-110-PR-PI-0001	CRD-110-111-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-40 (Note 1)	15.60	207	74.0	100	NO	Yes	NO	NO	YES	9000#		
9	PG-1103	W018S	BK-W018S-PEDCO-110-PR-PI-0001	CRD-110-110-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	75.0	100	NO	Yes	NO	NO	YES	9000#	D03	
10	PG-1401	W028	BK-W028-PEDCO-110-PR-PI-0001	CRD-110-140-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	80.0	105	NO	Yes	NO	NO	YES	9000#		
11	PG-1402	W028	BK-W028-PEDCO-110-PR-PI-0001	CRD-110-141-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-40 (Note 1)	20.44	207	79.9	105	NO	Yes	NO	NO	YES	9000#		
12	PG-1403	W028	BK-W028-PEDCO-110-PR-PI-0001	CRD-110-140-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	80.0	105	NO	Yes	NO	NO	YES	9000#	D03	
13	PG-1501	W035	BK-W035-PEDCO-110-PR-PI-0001	CRD-110-150-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	80.0	105	NO	Yes	NO	NO	YES	9000#		
14	PG-1502	W035	BK-W035-PEDCO-110-PR-PI-0001	CRD-110-151-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-40 (Note 1)	22.48	207	79.9	105	NO	Yes	NO	NO	YES	9000#		
15	PG-1503	W035	BK-W035-PEDCO-110-PR-PI-0001	CRD-110-150-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	80.0	105	NO	Yes	NO	NO	YES	9000#	D03	
16	PG-1301	W046S	BK-W046S-PEDCO-110-PR-PI-0001	CRD-110-130-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	80.0	105	NO	Yes	NO	NO	YES	9000#		
17	PG-1302	W046S	BK-W046S-PEDCO-110-PR-PI-0001	CRD-110-131-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-40 (Note 1)	20.88	207	79.2	105	NO	Yes	NO	NO	YES	9000#		
18	PG-1301	W046S	BK-W046S-PEDCO-110-PR-PI-0001	CRD-110-130-LN17-6"-PT	HC+WATER	LIQUID/GAS	0-100 (Note 1)	43.8	207	80.0	105	NO	Yes	NO	NO	YES	9000#	D03	

NOTES:
1- For this PG design pressure is more than 1.3 times the maximum scale reading so Pressure valve protector shall be used .