

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۱۰-CO-GCS-HD-BK)							 	
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده MF	تسهیلات 120	رشته IN	نوع مدرک DS	سریال 0005	نسخه V00	شماره صفحه: ۱ از ۱۱

طرح نگهداشت و افزایش تولید ۲۷ مخزن

INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER

نگهداشت و افزایش تولید میدان نفتی بینک

V00	Mar.2025	IFA	MFS	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
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status:

IFA: Issued For Approval

IFI: Issued For Information

AFC: Approved For Construction

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)								
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده MF	تسهیلات 120	رشته IN	نوع مدرک DS	سریال 0005	نسخه V00	شماره صفحه: ۱۱ از ۲

REVISION RECORD SHEET

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1	X					61					
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3	X					63					
4	X					64					
5	X					65					
6	X					66					
7	X					67					
8	X					68					
9	X					69					
10	X					70					
11	X					71					
12						72					
13						73					
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60						120					

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱۰۰۸-BK-HD-GCS-CO)								
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع	سریال	نسخه	شماره صفحه: ۱۱ از ۳
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0005	V00	
Tag No:				D-TIT-2101					
General	1	Service		WET GAS TO C100					
	2	P&ID No.		BK-GCS-MF-120-PR-PI-0003 (Page1/7)					
	3	Area Classification		ZONE 2 EX ia IIB T4					
	4	Equipment No.	Quantity	1		1			
	5	Line No.		GAS-111-0001-FN05-6"-PT					
Process Conditions	6	Fluid		GAS					
	7	Phase		Vapor					
	8	Ambient Temperature		5 / 50 °C (min/max)					
	9	Design Temperature		148 °C					
	10	Max Temperature		60 °C					
	11	Design Pressure		F.V. / 62 barg					
	12	Min/Nor/Max Pressure		53.9 barg					
Element	13	Type		RTD-Pt100 (3 wire)					
	14	T/C	Element Type	N/A					
	15		Grounded	N/A					
	16		Ungrounded	N/A					
	17	RTD	Wire Size	N/A					
	18		Material	RTD(platinum resistance temperature detector)					
	19		Resistance	VTA					
	20	Wire Size	VTA						
	21	Accuracy		IEC-60751					
	22	Single / Double or Other		DOUBLE					
	23	Sheath Material		Platinum					
	24	Sheath OD		Φ6					
	25	Stem Length		VTA					
	26	Insulating Material		Magnesium Oxide					
	27	Reference Standard		IEC 60584					
28	Connection		FLG, 1 1/2", #300 RF(1/2NPT to 1 1/2" FLG)						
29									
Transmitter	30	Transmitter type		2 wire(VTC)					
	31	Calibration Range	Instrument Range	0 - 100 °C		0 - 120 °C			
	32	Integral Indicator		Yes					
	33	Failure / Diagnostic Alarm		Self Diagnostic (VTC)					
	34	Output Signal	Linearization	4-20mA Hart		Yes (VTA)			
	35	Accuracy		±0.1 % FS					
	36	Power Supply	Power Consumption	Loop Powered 24VDC		1W(VTA)			
	37	Housing Material	Mounting Type	Painted Die Cast Aluminum		Head Mounted			
	38	Electrical Connection	RFI Protection	M20 x 1.5		Yes (VTA)			
	39	Write Protection		YES					
	40	Ex Certificate	SIL	ZONE 2 EX ia IIB T4		NA			
	41	Ingress Protection		IP65					
	42								
Well	43	Tag		D-TW-2101					
	44	Reference Standard		ASME PTC 19.3					
	45	Construction Type		Solid Drilled Bar Stoke Tapered					
	46	Element Connection		NPT					
	47	Size		1/2"					
	48	Rating		600#					
	49	Process Connection		1 1/2" FLG					
	50	Flange Facing / Finish		RF					
	51	Insertion Length	Lag Extension	250mm		75mm			
	52	Flange Material		SS316L					
	53	Well Material		SS316L					
	54	Mounting Sketch		Vertical					
	55	NACE Requirements		YES					
Management Data	56	Model	Manufacturer	Will be finalized later		Will be finalized later			
	57	Drawing Number		BK-GCS-MF-120-IN-DW-0005					
	58	Bracket/Material		2" Pipe mounted Bracket / 316 SS					

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱۰-۰۰۱ BK-HD-GCS-CO)								
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۱۱
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0005	V00	
Tag No:				D-TIT-2102					
General	1	Service		FROM E300 TO C100					
	2	P&ID No.		BK-GCS-MF-120-PR-PI-0003 (Page1/7)					
	3	Area Classification		ZONE 2 EX ia IIB T4					
	4	Equipment No.	Quantity	2				1	
	5	Line No.		TEG-111-0001-FN04-1"-HI (INSTALL ON 2" 90° ELBOW)					
Process Conditions	6	Fluid		TEG					
	7	Phase		Liquid					
	8	Ambient Temperature		5 / 50 °C (min/max)					
	9	Design Temperature		145 °C					
	10	Max Temperature		68 °C					
	11	Design Pressure		F.V. / 62 barg					
Element	12	Min/Nor/Max Pressure		54.9 barg					
	13	Type		RTD-Pt100 (3 wire)					
	14	T/C	Element Type	N/A					
	15		Grounded	N/A					
	16		Ungrounded	N/A					
	17	RTD	Wire Size	N/A					
	18		Material	RTD(platinum resistance temperature detector)					
	19		Resistance	VTA					
	20		Wire Size	VTA					
	21	Accuracy		IEC-60751					
	22	Single / Double or Other		DOUBLE					
	23	Sheath Material		Platinum					
	24	Sheath OD		Φ6					
	25	Stem Length		VTA					
	26	Insulating Material		Magnesium Oxide					
27	Reference Standard		IEC 60584						
28	Connection		FLG, 1", #300 RF(1/2NPT to 1" FLG)						
29									
Transmitter	30	Transmitter type		2 wire(VTC)					
	31	Calibration Range	Instrument	0 - 100 °c				0 - 120 °C	
	32	Integral Indicator		Yes					
	33	Failure / Diagnostic Alarm		Self Diagnostic (VTC)					
	34	Output Signal	Linearization	4-20mA Hart				Yes (VTA)	
	35	Accuracy		±0.1 % FS					
	36	Power Supply	Power	Loop Powered 24VDC				1W(VTA)	
	37	Housing Material	Mounting	Painted Die Cast Aluminum				Head Mounted	
	38	Electrical Connection	RFI Protection	M20 x 1.5				Yes (VTA)	
	39	Write Protection		YES					
	40	Ex Certificate	SIL	ZONE 2 EX ia IIB T4				NA	
	41	Ingress Protection		IP65					
	42								
Well	43	Tag		D-TW-2102					
	44	Reference Standard		ASME PTC 19.3					
	45	Construction Type		Solid Drilled Bar Stoke Tapered					
	46	Element Connection		NPT					
	47	Size		1/2"					
	48	Rating		600#					
	49	Process Connection		1/2" NPT					
	50	Flange Facing / Finish		NA					
	51	Insertion Length	Lag Extension	200mm(VTA)				75mm	
	52	Flange Material		SS316L					
	53	Well Material		SS316L					
54	Mounting Sketch		Vertical						
55	NACE Requirements		Yes						
Management Data	56	Model	Manufacturer	Will be finalized later				Will be finalized later	
	57	Drawing Number		BK-GCS-MF-120-IN-DW-0005					
	58	Bracket/Material		2" Pipe mounted Bracket / 316 SS					

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۱-۰۰۱-BK-HD-GCS-CO)								
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۵ از ۱۱
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0005	V00	
Tag No:				D-TIT-2103					
General	1	Service			DEHYDRATED GAS FROM E300				
	2	P&ID No.			BK-GCS-MF-120-PR-PI-0003 (Page1/7)				
	3	Area Classification			ZONE 2 EX ia IIB T4				
	4	Equipment No.	Quantity	3			1		
	5	Line No.			GAS-111-01791-FN05-6"-PT				
Process Conditions	6	Fluid			GAS				
	7	Phase			Vapor				
	8	Ambient Temperature			5 / 50 °C (min/max)				
	9	Design Temperature			95 °C				
	10	Max Temperature			66.87 °C				
	11	Design Pressure			F.V. / 59 barg				
	12	Min/Nor/Max Pressure			53.1 barg				
Element	13	Type			RTD-Pt100 (3 wire)				
	14	T/C	Element Type		N/A				
	15		Grounded		N/A				
	16		Ungrounded		N/A				
	17		Wire Size		N/A				
	18	RTD	Material		RTD(platinum resistance temperature detector)				
	19		Resistance		VTA				
	20		Wire Size		VTA				
	21	Accuracy			IEC-60751				
	22	Single / Double or Other			DOUBLE				
	23	Sheath Material			Platinum				
	24	Sheath OD			Φ6				
	25	Stem Length			VTA				
	26	Insulating Material			Magnesium Oxide				
	27	Reference Standard			IEC 60584				
28	Connection			FLG, 1 1/2", #300 RF(1/2NPT to 1 1/2" FLG)					
29									
Transmitter	30	Transmitter type			2 wire(VTC)				
	31	Calibration Range	Instrument Range	0 - 100 °C			0 - 120 °C		
	32	Integral Indicator			Yes				
	33	Failure / Diagnostic Alarm			Self Diagnostic (VTC)				
	34	Output Signal	Linearization	4-20mA Hart			Yes (VTA)		
	35	Accuracy			±0.1 % FS				
	36	Power Supply	Power Consumption	Loop Powered 24VDC			1W(VTA)		
	37	Housing Material	Mounting Type	Painted Die Cast Aluminum			Head Mounted		
	38	Electrical Connection	RFI Protection	M20 x 1.5			Yes (VTA)		
	39	Write Protection			YES				
	40	Ex Certificate	SIL	ZONE 2 EX ia IIB T4			NA		
	41	Ingress Protection			IP65				
Well	42								
	43	Tag			D-TW-2103				
	44	Reference Standard			ASME PTC 19.3				
	45	Construction Type			Solid Drilled Bar Stoke Tapered				
	46	Element Connection			NPT				
	47	Size			1/2"				
	48	Rating			600#				
	49	Process Connection			1 1/2" FLG				
	50	Flange Facing / Finish			RF				
	51	Insertion Length	Lag Extension	250mm			75mm		
	52	Flange Material			SS316L				
	53	Well Material			SS316L				
	54	Mounting Sketch			Vertical				
	55	NACE Requirements			YES				
Management Data	56	Model	Manufacturer	Will be finalized later			Will be finalized later		
	57	Drawing Number			BK-GCS-MF-120-IN-DW-0005				
	58	Bracket/Material			2" Pipe mounted Bracket / 316 SS				

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۱۰-۰۰۱-BK-HD-GCS-CO)								
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER								
	شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۰۵۳-۰۷۳-۹۱۸۴	BK	GCS	MF	120	IN	DS	0005	V00	
شماره صفحه: ۱۱ از ۶									
General	Tag No:			D-TIT-2104					
	1	Service		C100					
	2	P&ID No.		BK-GCS-MF-120-PR-PI-0003 (Page1/7)					
	3	Area Classification		ZONE 2 EX ia IIB T4					
	4	Equipment No.	Quantity	4			1		
Process Conditions	5	Line No.		NA					
	6	Fluid		GAS and TEG					
	7	Phase		Vapor / Liquid					
	8	Ambient Temperature		5 / 50 °C (min/max)					
	9	Design Temperature		5 / 148 °C					
	10	Max Temperature		63.6 °C					
	11	Design Pressure		F.V. / 62 barg					
Element	12	Min/Nor/Max Pressure		53.8 / 54.9 barg					
	13	Type		RTD-Pt100 (3 wire)					
	14	T/C	Element Type	N/A					
	15		Grounded	N/A					
	16		Ungrounded	N/A					
	17	RTD	Wire Size	N/A					
	18		Material	RTD(platinum resistance temperature detector)					
	19		Resistance	VTA					
	20		Wire Size	VTA					
	21	Accuracy		IEC-60751					
	22	Single / Double or Other		DOUBLE					
	23	Sheath Material		Platinum					
	24	Sheath OD		Φ6					
	25	Stem Length		VTA					
	26	Insulating Material		Magnesium Oxide					
	27	Reference Standard		IEC 60584					
	28	Connection		FLG, 2", #300 RF(1/2NPT to 2" FLG)					
Transmitter	29								
	30	Transmitter type		2 wire(VTC)					
	31	Calibration Range	Instrument	0 - 100 °C			0 - 120 °C		
	32	Integral Indicator		Yes					
	33	Failure / Diagnostic Alarm		Self Diagnostic (VTC)					
	34	Output Signal	Linearization	4-20mA Hart			Yes (VTA)		
	35	Accuracy		±0.1 % FS					
	36	Power Supply	Power	Loop Powered 24VDC			1W(VTA)		
	37	Housing Material	Mounting Type	Painted Die Cast Aluminum			Head Mounted		
	38	Electrical Connection	RFI Protection	M20 x 1.5			Yes (VTA)		
	39	Write Protection		YES					
	Well	40	Ex Certificate	SIL	ZONE 2 EX ia IIB T4			NA	
41		Ingress Protection		IP65					
42									
43		Tag		D-TW-2104					
44		Reference Standard		ASME PTC 19.3					
45		Construction Type		Solid Drilled Bar Stoke Tapered					
46		Element Connection		NPT					
47		Size		1/2"					
Management Data	48	Rating		600#					
	49	Process Connection		2" FLG					
	50	Flange Facing / Finish		RF					
	51	Insertion Length	Lag Extension	500mm			75mm		
	52	Flange Material		SS316L					
	53	Well Material		SS316L					
	54	Mounting Sketch		Vertical					
	55	NACE Requirements		YES					
Management Data	56	Model	Manufacturer	Will be finalized later			Will be finalized later		
	57	Drawing Number		BK-GCS-MF-120-IN-DW-0005					
	58	Bracket/Material		2" Pipe mounted Bracket / 316 SS					

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۱۰-۰۰۱-BK-HD-GCS-CO)								
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۱۷
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0005	V00	
Tag No:				D-TIT-2105					
General	1	Service			V120				
	2	P&ID No.			BK-GCS-MF-120-PR-PI-0003 (Page2/7)				
	3	Area Classification			ZONE 2 EX ia IIB T4				
	4	Equipment No.	Quantity	5			1		
	5	Line No.			NA				
Process Conditions	6	Fluid			TEG				
	7	Phase			V / L				
	8	Ambient Temperature			5 / 50 °C (min/max)				
	9	Design Temperature			5 / 120 °C				
	10	Max Temperature			74.53 °C				
	11	Design Pressure			F.V. / 8 barg				
Element	12	Min/Nor/Max Pressure			4.5 barg				
	13	Type			RTD-Pt100 (3 wire)				
	14	T/C	Element Type		N/A				
	15		Grounded		N/A				
	16		Ungrounded		N/A				
	17		Wire Size		N/A				
	18	RTD	Material		RTD(platinum resistance temperature detector)				
	19		Resistance		VTA				
	20		Wire Size		VTA				
	21		Accuracy		IEC-60751				
	22	Single / Double or Other			DOUBLE				
	23	Sheath Material			Platinum				
	24	Sheath OD			Φ6				
	25	Stem Length			VTA				
	26	Insulating Material			Magnesium Oxide				
	27	Reference Standard			IEC 60584				
	28	Connection			FLG, 2", #300 RF(1/2NPT to 2" FLG)				
29									
Transmitter	30	Transmitter type			2 wire(VTC)				
	31	Calibration Range	Instrument Range	0 - 100 °C		0 - 120 °C			
	32	Integral Indicator			Yes				
	33	Failure / Diagnostic Alarm			Self Diagnostic (VTC)				
	34	Output Signal	Linearization	4-20mA Hart		Yes (VTA)			
	35	Accuracy			±0.1 % FS				
	36	Power Supply	Power Consumption	Loop Powered 24VDC		1W(VTA)			
	37	Housing Material	Mounting Type	Painted Die Cast Aluminum		Head Mounted			
	38	Electrical Connection	RFI Protection	M20 x 1.5		Yes (VTA)			
	39	Write Protection			YES				
	40	Ex Certificate	SIL	ZONE 2 EX ia IIB T4		NA			
	41	Ingress Protection			IP65				
	42								
Well	43	Tag			D-TW-2105				
	44	Reference Standard			ASME PTC 19.3				
	45	Construction Type			Solid Drilled Bar Stoke Tapered				
	46	Element Connection			NPT				
	47	Size			1/2"				
	48	Rating			300#				
	49	Process Connection			2" FLG				
	50	Flange Facing / Finish			RF				
	51	Insertion Length	Lag Extension	500mm		75mm			
	52	Flange Material			SS316L				
	53	Well Material			SS316L				
	54	Mounting Sketch			Vertical				
	55	NACE Requirements			YES				
Management Data	56	Model	Manufacturer	Will be finalized later			Will be finalized later		
	57	Drawing Number			BK-GCS-MF-120-IN-DW-0005				
	58	Bracket/Material			2" Pipe mounted Bracket / 316 SS				

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۸۰۰۱۰۰۸-BK-HD-GCS-CO-۰۰۱۰)								
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۸ از ۱۱
۰۵۳-۰۷۳-۹۱۸۴	BK	GCS	MF	120	IN	DS	0005	V00	
General Tag No: D-TIT-2106 1 Service R100 2 P&ID No. BK-GCS-MF-120-PR-PI-0003 (Page4/7) 3 Area Classification ZONE 2 EX ia IIB T4 4 Equipment No. Quantity 6 1 5 Line No. NA									
Process Conditions 6 Fluid TEG 7 Phase V / L 8 Ambient Temperature 5 / 50 °C (min/max) 9 Design Temperature 5 / 234 °C 10 Max Temperature 204 °C 11 Design Pressure F.V. / 4.1 barg 12 Min/Nor/Max Pressure 0.3 / 0.6 barg									
Element 13 Type RTD-Pt100 (3 wire) 14 Element Type N/A 15 Grounded N/A 16 Ungrounded N/A 17 Wire Size N/A 18 Material RTD(platinum resistance temperature detector) 19 Resistance VTA 20 Wire Size VTA 21 Accuracy IEC-60751 22 Single / Double or Other DOUBLE 23 Sheath Material Platinum 24 Sheath OD Ø6 25 Stem Length VTA 26 Insulating Material Magnesium Oxide 27 Reference Standard IEC 60584 28 Connection FLG, 2", #300 RF(1/2NPT to 2" FLG) 29									
Transmitter 30 Transmitter type 2 wire(VTC) 31 Calibration Range Instrument 0 -300 °C 0 - 350 °C 32 Integral Indicator Yes 33 Failure / Diagnostic Alarm Self Diagnostic (VTC) 34 Output Signal Linearization 4-20mA Hart Yes (VTA) 35 Accuracy ±0.1 % FS 36 Power Supply Power Loop Powered 24VDC 1W(VTA) 37 Housing Material Mounting Type Painted Die Cast Aluminum Head Mounted 38 Electrical Connection RFI Protection M20 x 1.5 Yes (VTA) 39 Write Protection YES 40 Ex Certificate SIL ZONE 2 EX ia IIB T4 NA 41 Ingress Protection IP65 42									
Well 43 Tag D-TW-2106 44 Reference Standard ASME PTC 19.3 45 Construction Type Solid Drilled Bar Stoke Tapered 46 Element Connection NPT 47 Size 1/2" 48 Rating 300# 49 Process Connection 2" FLG 50 Flange Facing / Finish RF 51 Insertion Length Lag Extension 500mm 75mm 52 Flange Material SS316L 53 Well Material SS316L 54 Mounting Sketch Vertical 55 NACE Requirements YES									
Management Data 56 Model Manufacturer Will be finalized later Will be finalized later 57 Drawing Number BK-GCS-MF-120-IN-DW-0005 58 Bracket/Material 2" Pipe mounted Bracket / 316 SS									

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۱۰-۰۰۱-BK-HD-GCS-CO)							
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER							
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0005	V00
شماره صفحه: ۹ از ۱۱								
Tag No:				D-TIT-2107				
General	1	Service		FROM E100 TO LP FLARE				
	2	P&ID No.		BK-GCS-MF-120-PR-PI-0003 (Page4/7)				
	3	Area Classification		ZONE 2 EX Ia IIB T4				
	4	Equipment No.	Quantity	7		1		
	5	Line No.		GAS-111-0001-AS00-2"-HI (INSTALL ON 2" 90° ELBOW)				
Process Conditions	6	Fluid		TEG				
	7	Phase		V / L				
	8	Ambient Temperature		5 / 50 °C (min/max)				
	9	Design Temperature		5 / 234 °C				
	10	Max Temperature		86.85 °C				
	11	Design Pressure		F.V. / 4.1 barg				
Element	12	Min/Nor/Max Pressure		0.2/0.6 barg				
	13	Type		RTD-Pt100 (3 wire)				
	14	T/C	Element Type	N/A				
	15		Grounded	N/A				
	16		Ungrounded	N/A				
	17	RTD	Wire Size	N/A				
	18		Material	RTD(platinum resistance temperature detector)				
	19		Resistance	VTA				
	20		Wire Size	VTA				
	21	Accuracy		IEC-60751				
	22	Single / Double or Other		DOUBLE				
	23	Sheath Material		Platinum				
	24	Sheath OD		Ø6				
	25	Stem Length		VTA				
26	Insulating Material		Magnesium Oxide					
27	Reference Standard		IEC 60584					
28	Connection		FLG, 1", #300 RF(1/2NPT to 1" FLG)					
Transmitter	29							
	30	Transmitter type		2 wire(VTC)				
	31	Calibration Range	Instrument Range	0 - 120 °C		0 - 150 °C		
	32	Integral Indicator		Yes				
	33	Failure / Diagnostic Alarm		Self Diagnostic (VTC)				
	34	Output Signal	Linearization	4-20mA Hart		Yes (VTA)		
	35	Accuracy		±0.1 % FS				
	36	Power Supply	Power Consumption	Loop Powered 24VDC		1W(VTA)		
	37	Housing Material	Mounting Type	Painted Die Cast		Head Mounted		
	38	Electrical Connection	RFI Protection	M20 x 1.5		Yes (VTA)		
	39	Write Protection		YES				
	40	Ex Certificate	SIL	ZONE 2 EX Ia IIB T4		NA		
	Well	41	Ingress Protection		IP65			
42								
43		Tag		D-TW-2107				
44		Reference Standard		ASME PTC 19.3				
45		Construction Type		Solid Drilled Bar Stoke Tapered				
46		Element Connection		NPT				
47		Size		1/2"				
48		Rating		300#				
49		Process Connection		1/2" NPT				
50		Flange Facing / Finish		NA				
51		Insertion Length	Lag Extension	200mm (VTA)		75mm		
Management Data	52	Flange Material		SS316L				
	53	Well Material		SS316L				
	54	Mounting Sketch		Vertical				
	55	NACE Requirements		YES				
Management Data	56	Model	Manufacturer	Will be finalized later		Will be finalized later		
	57	Drawing Number		BK-GCS-MF-120-IN-DW-0005				
	58	Bracket/Material		2" Pipe mounted Bracket / 316 SS				

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸_۰۱۰-۰۰۱-BK-HD-GCS-CO)							
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER							
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0005	V00
شماره صفحه: ۱۰ از ۱۱								
General	Tag No:			D-TIT-2108				
	1	Service		R100				
	2	P&ID No.		BK-GCS-MF-120-PR-PI-0003 (Page4/7)				
	3	Area Classification		ZONE 2 EX I IIB T4				
	4	Equipment No.	Quantity	8			1	
Process Conditions	5	Line No.		NA				
	6	Fluid		TEG				
	7	Phase		V / L				
	8	Ambient Temperature		5 / 50 °C (min/max)				
	9	Design Temperature		535 °C				
	10	Max Temperature		510 °C				
Element	11	Design Pressure		F.V. / 3.5 barg				
	12	Min/Nor/Max Pressure		1 bara				
	13	Type		Thermocouple				
	14	T/C	Element Type	K TYPE				
	15		Grounded	N/A				
	16		Ungrounded	YES				
	17		Wire Size	0.70 According to IEC 61515				
	18	RTD	Material	N/A				
	19		Resistance	N/A				
	20		Wire Size	N/A				
	21	Accuracy		IEC 60584-2 class 1				
	22	Single / Double or Other		DOUBLE				
	23	Sheath Material		INCONEL600				
	24	Sheath OD		Φ6				
25	Stem Length		VTA					
26	Insulating Material		Magnesium Oxide					
27	Reference Standard		IEC 60584					
28	Connection		FLG, 2", #300 RF(1/2NPT to 2" FLG)					
Transmitter	29							
	30	Transmitter type		2 wire(VTC)				
	31	Calibration Range	Instrument Range	0 - 800 °C		0 - 1200 °C		
	32	Integral Indicator		Yes				
	33	Failure / Diagnostic Alarm		Self Diagnostic (VTC)				
	34	Output Signal	Linearization	4-20mA Hart		Yes (VTA)		
	35	Accuracy		±0.1 % FS				
	36	Power Supply	Power Consumption	Loop Powered 24VDC		1W(VTA)		
	37	Housing Material	Mounting Type	Painted Die Cast Aluminum		Head Mounted		
	38	Electrical Connection	RFI Protection	M20 x 1.5		Yes (VTA)		
	39	Write Protection		YES				
	40	Ex Certificate	SIL	ZONE 2 EX ia IIB T4		NA		
	41	Ingress Protection		IP65				
Well	42							
	43	Tag		D-TW-2108				
	44	Reference Standard		ASME PTC 19.3				
	45	Construction Type		Solid Drilled Bar Stoke Tapered				
	46	Element Connection		NPT				
	47	Size		1/2"				
	48	Rating		300#				
	49	Process Connection		2" FLG				
	50	Flange Facing / Finish		RF				
	51	Insertion Length	Lag Extension	500mm		75mm		
	52	Flange Material		SS316L				
53	Well Material		SS316L					
54	Mounting Sketch		Vertical					
55	NACE Requirements		YES					
Management Data	56	Model	Manufacturer	Will be finalized later		Will be finalized later		
	57	Drawing Number		BK-GCS-MF-120-IN-DW-0005				
	58	Bracket/Material		2" Pipe mounted Bracket / 316 SS				

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۸۰۰۱۰۰۸-BK-HD-GCS-CO)									
	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTER									
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۱۱
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0005	V00		
Tag No:				D-TIT-2109						
General	1	Service			R100					
	2	P&ID No.			BK-GCS-MF-120-PR-PI-0003 (Page4/7)					
	3	Area Classification			ZONE 2 EX I IIB T4					
	4	Equipment No.	Quantity	9		1				
	5	Line No.			NA					
Process Conditions	6	Fluid			TEG					
	7	Phase			V / L					
	8	Ambient Temperature			5 / 50 °C (min/max)					
	9	Design Temperature			5 / 234 °C					
	10	Max Temperature			204 °C					
	11	Design Pressure			F.V. / 4.1 barg					
	12	Min/Nor/Max Pressure			0.3 / 0.6 barg					
Element	13	Type			RTD-Pt100 (3 wire)					
	14	T/C	Element Type		N/A					
	15		Grounded		N/A					
	16		Ungrounded		N/A					
	17		Wire Size		N/A					
	18	RTD	Material		RTD(platinum resistance temperature detector)					
	19		Resistance		VTA					
	20		Wire Size		VTA					
	21		Accuracy		IEC-60751					
	22	Single / Double or Other			DOUBLE					
	23	Sheath Material			Platinum					
	24	Sheath OD			Φ6					
	25	Stem Length			VTA					
	26	Insulating Material			Magnesium Oxide					
	27	Reference Standard			IEC 60584					
	28	Connection			FLG, 2", #300 RF(1/2NPT to 2" FLG)					
	29									
Transmitter	30	Transmitter type			2 wire(VTC)					
	31	Calibration Range	Instrument Range	0 - 300 °C		0 - 350 °C				
	32	Integral Indicator			Yes					
	33	Failure / Diagnostic Alarm			Self Diagnostic (VTC)					
	34	Output Signal	Linearization	4-20mA Hart		Yes (VTA)				
	35	Accuracy			±0.1 % FS					
	36	Power Supply	Power Consumption	Loop Powered 24VDC		1W(VTA)				
	37	Housing Material	Mounting Type	Painted Die Cast		Head Mounted				
	38	Electrical Connection	RFI Protection	M20 x 1.5		Yes (VTA)				
	39	Write Protection			YES					
	40	Ex Certificate	SIL	ZONE 2 EX ia IIB T4		NA				
	41	Ingress Protection			IP65					
	42									
Well	43	Tag			D-TW-2109					
	44	Reference Standard			ASME PTC 19.3					
	45	Construction Type			Solid Drilled Bar Stoke Tapered					
	46	Element Connection			NPT					
	47	Size			1/2"					
	48	Rating			300#					
	49	Process Connection			2" FLG					
	50	Flange Facing / Finish			RF					
	51	Insertion Length	Lag Extension	500mm		75mm				
	52	Flange Material			SS316L					
	53	Well Material			SS316L					
	54	Mounting Sketch			Vertical					
	55	NACE Requirements			YES					
Management Data	56	Model	Manufacturer	Will be finalized later		Will be finalized later				
	57	Drawing Number			BK-GCS-MF-120-IN-DW-0005					
	58	Bracket/Material			2" Pipe mounted Bracket / 316 SS					