



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR TEMPERATURE GAUGE

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0002

نسخه

D02

شماره صفحه: ۱ از ۷

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEETS FOR TEMPERATURE GAUGE

نگهداشت و افزایش تولید میدان نفتی بینک

D02	AUG.2023	AFC	P.Hajisadeghi	M.Fakharian	A.M.Mohseni	
D01	JUL.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	MAR.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-708923

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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شماره صفحه: ۲ از ۷

REVISION RECORD SHEET

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DATA SHEETS FOR TEMPERATURE GAUGE

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

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شماره صفحه: ۳ از ۷

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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DATA SHEETS FOR TEMPERATURE GAUGE

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۴ از ۷
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0002	D02	

GENERAL NOTES:

1- Vendor to follow materials indicated in the Data Sheets, related wetted parts, these materials can be as minimum and shall be verified by vendor.

2- 304 SS (VTC) name plate shall be supplied for all instruments specified in this document. Following details shall be engraved on them:

- Tag Number
- Range Limit
- Manufacture Model

3- Environmental Condition For Field Instrumentation Of BINAK Complex 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: - (°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

4- Temperature gauges shall be fully adjustable type (Every Angle).

5- Temperature gauges shall be double scale type (°C and °F).

6 - Material Test Certificate and calibration Certificate for all gauges to be submitted by Vendor.

7 - All lines below 4", shall be expanded to 4" to be suitable for thermowell installation.

8- Temperature elements shall be capable of withstanding intermittent over-ranging to 1.5 times the maximum scale.

9- Pipe Nozzle projection length in GCS /Manifold / Pipeline as 162 mm.

10-For Wellhead area and all vessel connection 200 mm.



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	DATA SHEETS FOR TEMPERATURE GAUGE								
	شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0002	D02	شماره صفحه: ۵ از ۷

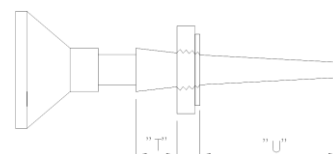
TEMPERATURE GAUGE					
GENERAL DATA	1	Tag No.	Service	SEE PAGE 6	
	2	P&ID	Line No./Equipment No.	SEE PAGE 6	SEE PAGE 6
	3	Piping Class	Schedule	SEE PAGE 6	SEE PAGE 6
	4	Line Size		SEE PAGE 6	SEE PAGE 6
	5	Area Clacification	Phase	ZONE 2, IIB T4	
PROCESS CONDITION	6	Fluid	Design Temperature	SEE PAGE 6	SEE PAGE 6
	7	Operating Temperature	Design Pressure (°C)	SEE PAGE 6	SEE PAGE 6
	8	Operating Pressure	(barg)	SEE PAGE 6	SEE PAGE 6
	9	Density	Viscosity (Liquid) Kg/m3	SEE PAGE 6	
	10	Viscosity (Vapor)	Velocity (Liquid) (C.P)	SEE PAGE 6	SEE PAGE 6
	11	Velocity (Vapor)	(m/s)	VTA	VTA
THERMOMETER	12	Type		Bimetal-Every Angle	
	13	Instrument Range		SEE PAGE 6	
	14	Dial Size	Dial Color	150 mm	Black figures on white dial.
	15	Case Material	Dial Material	SS 304	Aluminium
	16	Stem Material	Window	316 SS	(Note 1)
	17	Stem Adjustable Union		Required	
	18	Stem Position		Bottom	
	19	Stem Length		Suit for Well (VTA) (Note 4)	
	20	Stem Diameter		6 mm	
	21	Accuracy		±1% of F.S	
	22	Weather Protection		IP-65 as minimum-Hermitically sealed	
	23	Zero Adjustement		Local	
THERMOWELL (Note 2,3)	24	Construction Type		Drilled Solid Bar Stock in Tapered Configuration	
	25	Element Connection		1/2 " NPTF	
	26	Size (in)	Rating (lbs)	SEE PAGE 6	SEE PAGE 6
	27	Process Connection		Flanged	SEE PAGE 6
	28	Flange Facing		SEE PAGE 6	
	29	Insertion Length(U)	(mm)	SEE PAGE 6	
	30	LAG Extension (T)	(mm)	N/A	
	31	Flange Material		S.S 316L	
	32	Well Material		S.S 316L	
	33	NACE Requirements (NACE MR-0175/ISO 15156)		SEE PAGE 6	
PURCHASING DATA	37	Wake Frequency Standard		Required as per ASME PTC 19.3	
	38	Model	Manufacturer	Note 8	Note 8
	39	Supplier	Order	Note 8	Note 8
	40				

NOTES :

VTA : VENDOR TO ADVISE

N/A: NOT APPLICABLE

- Window shall be heavy plate glass, breakage resistance and shatter proof.
- Thermowell wake frequency analysis (stress calculation) according to ASME Power Test Code 19.3 shall be done & submitted by vendor.
- Well length must suit for stem length.
- According to thermowell dimension, suitable length should be provided for thermometer stem.
- Temperature gauges shall be fully adjustable type (Every Angle).
- Temperature gauges shall be double scale type (°C and °F).
- NACE requirement to be as per MR-0175/ISO 15156 if mentioned in data sheet.
- Will be finalized later at the purchasing time.
- Area classification for all tags to be Zone 2, IIB T4





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شماره صفحه: ۶ از ۷

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TEMPERATURE GAUGE

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TEMPERATURE GAUGE																			
Rev.	Item No.	Tag No.	P&ID No.	Piping Class	Line No./Equipment No.	SERVICE	Line Size/ Flange Facing/ Sch	Fluid	Phase	Operating Temperature (°C)	Design Temperature (°C)	Operating Pressure (barg)	Design Pressure (barg)	Instrument Range (°C)	Process Connection Size(in)	Rating	Insertion Length (L) mm	NACE	Remarks
	1	TG-2111	BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2)	AN07	V-2104	SLUG CATCHER DRUM	-	HYDROCARBON / GAS	GAS	15.5-32	85	5.5	FV/9	0-100	2"	300	500	Yes	
	2	TG-2112A	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	CN05	CDH-112-0012-CN05-3"-PT	SLUG PUMP P-2101A DISCHARGE LINE	3" / 300/RF SCH.40	HYDROCARBON / LIQUID	LIQUID	AMB	85	19.5	47.7	0-100	1 1/2"	300	200 (NOTE 7 IN GENERAL NOTES)	Yes	
	3	TG-2112B	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	CN05	CDH-112-0013-CN05-3"-PT	SLUG PUMP P-2101B DISCHARGE LINE	3" / 300/RF SCH.40	HYDROCARBON / LIQUID	LIQUID	AMB	85	19.5	47.7	0-100	1 1/2"	300	200 (NOTE 7 IN GENERAL NOTES)	Yes	
	4	TG-2113	BK-GCS-PEDCO-120-PR-PI-0005	-	V-2105	INLET KNOCK OUT DRUM	-	HYDROCARBON / GAS	GAS	19-37	85	5.3	FV/9	0-100	2"	300	500	Yes	
	5	TG-2114	BK-GCS-PEDCO-120-PR-PI-0005	AN07	GAS-111-0025-AN07-10"-PT	1ST STAGE GAS COMPRESSION SUCTION MANIFOLD	10" / 150/RF / SCH.40	HYDROCARBON / GAS	GAS	19-37	85	5.3	18.2	0-100	1 1/2"	300	300	Yes	
	6	TG-2121A	BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3)	-	V-2101-A	1ST STAGE GAS COMPRESSION SUCTION DRUM TRAIN #A	-	HYDROCARBON / GAS	GAS	19-37	85	5.1	FV/22	0-100	2"	300	500	Yes	
	7	TG-2121B	BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3)	-	V-2101-B	1ST STAGE GAS COMPRESSION SUCTION DRUM TRAIN #B	-	HYDROCARBON / GAS	GAS	19-37	85	5.1	FV/22	0-100	2"	300	500	Yes	
	8	TG-2121C	BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3)	-	V-2101-C	1ST STAGE GAS COMPRESSION SUCTION DRUM TRAIN #C	-	HYDROCARBON / GAS	GAS	19-37	85	5.1	FV/22	0-100	2"	300	500	Yes	
	9	TG-2122A	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	AN05	GAS-111-0031A-CN05-8"-ET	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101A) TO C-2101-A	8" / 300/RF / SCH.40	HYDROCARBON / GAS	GAS	18-35	85	4.9	47.7	0-100	1 1/2"	300	300	Yes	
	10	TG-2123A	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	CN05	GAS-111-0036A-CN05-6"-NP	OUTLET COMP. C-2101-A / TO 1ST STAGE AIR COOLER (AE-2101A)	6" / 300/RF SCH.40	HYDROCARBON / GAS	GAS	113/125	155	19	47.7	0-250	1 1/2"	300	250	Yes	
	11	TG-2122B	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	AN05	GAS-111-0031B-CN05-8"-ET	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101B) TO C-2101-B	8" / 300/RF / SCH.40	HYDROCARBON / GAS	GAS	18-35	85	4.9	47.7	0-100	1 1/2"	300	300	Yes	
	12	TG-2123B	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	CN05	GAS-111-0036B-CN05-6"-NP	OUTLET COMP. C-2101-B / TO 1ST STAGE AIR COOLER (AE-2101B)	6" / 300/RF SCH.40	HYDROCARBON / GAS	GAS	113/125	155	19	47.7	0-250	1 1/2"	300	250	Yes	
	13	TG-2122C	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	AN05	GAS-111-0031C-CN05-8"-ET	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101C) TO C-2101-C	8" / 300/RF / SCH.40	HYDROCARBON / GAS	GAS	18-35	85	4.9	47.7	0-100	1 1/2"	300	300	Yes	
	14	TG-2123C	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	CN05	GAS-111-0036C-CN05-6"-NP	OUTLET COMP. C-2101-C / TO 1ST STAGE AIR COOLER (AE-2101C)	6" / 300/RF SCH.40	HYDROCARBON / GAS	GAS	113/125	155	19	47.7	0-250	1 1/2"	300	250	Yes	
	15	TG-2124A	BK-GCS-PEDCO-120-PR-PI-0008 (1 of 3)	CS00	GAS-111-0037A-CS00-6"-NP	FROM 1ST STAGE GAS COMPRESSOR AIR COOLERS (AE-2101-A)	6" / 300/RF / SCH.10S	HYDROCARBON / GAS	GAS / LIQUID	60	155	18.3	30.3	0-160	1 1/2"	300	250	No	
	16	TG-2124B	BK-GCS-PEDCO-120-PR-PI-0008 (2 of 3)	CS00	GAS-111-0037B-CS00-6"-NP	FROM 1ST STAGE GAS COMPRESSOR AIR COOLERS (AE-2101-B)	6" / 300/RF / SCH.10S	HYDROCARBON / GAS	GAS / LIQUID	60	155	18.3	30.3	0-160	1 1/2"	300	250	No	
	17	TG-2124C	BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3)	CS00	GAS-111-0037C-CS00-6"-NP	FROM 1ST STAGE GAS COMPRESSOR AIR COOLERS (AE-2101-C)	6" / 300/RF / SCH.10S	HYDROCARBON / GAS	GAS / LIQUID	60	155	18.3	30.3	0-160	1 1/2"	300	250	No	
	18	TG-2131A	BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3)	-	V-2102-A	2ND STAGE GAS COMPRESSOR SUCTION DRUM TRAIN #A	-	HYDROCARBON / GAS	GAS	60	115.4	18.3	FV/22	0-160	2"	300	500	Yes	
	19	TG-2131B	BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3)	-	V-2102-B	2ND STAGE GAS COMPRESSOR SUCTION DRUM TRAIN #B	-	HYDROCARBON / GAS	GAS	60	115.4	18.3	FV/22	0-160	2"	300	500	Yes	
	20	TG-2131C	BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3)	-	V-2102-C	2ND STAGE GAS COMPRESSOR SUCTION DRUM TRAIN #C	-	HYDROCARBON / GAS	GAS	60	115.4	18.3	FV/22	0-160	2"	300	500	Yes	
	21	TG-2132A	BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)	CN05	GAS-111-0044A-CN05-6"-ET	2ND STAGE GAS COMPRESSOR TRAIN #A SUCTION LINE	6" / 300/RF SCH.40	HYDROCARBON / GAS	GAS	59-60	115.4	18.1	47.7	0-160	1 1/2"	300	250	Yes	
	22	TG-2133A	BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)	FN05	GAS-111-0051A-FN05-6"-IS	2ND STAGE GAS COMPRESSOR TRAIN #A DISCHARGE LINE	6" / 600/RF /SCH.80	HYDROCARBON / GAS	GAS	142-150	175	54.8	90	0-250	1 1/2"	600	250	Yes	
	23	TG-2132B	BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3)	CN05	GAS-111-0044B-CN05-6"-ET	2ND STAGE GAS COMPRESSOR TRAIN #B SUCTION LINE	6" / 300/RF SCH.40	HYDROCARBON / GAS	GAS	59-60	115.4	18.1	47.7	0-160	1 1/2"	300	250	Yes	
	24	TG-2133B	BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3)	FN05	GAS-111-0051B-FN05-6"-IS	2ND STAGE GAS COMPRESSOR TRAIN #B DISCHARGE LINE	6" / 600/RF /SCH.80	HYDROCARBON / GAS	GAS	142-150	175	54.8	90	0-250	1 1/2"	600	250	Yes	
	25	TG-2132C	BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3)	CN05	GAS-111-0044C-CN05-6"-ET	2ND STAGE GAS COMPRESSOR TRAIN #C SUCTION LINE	6" / 300/RF SCH.40	HYDROCARBON / GAS	GAS	59-60	115.4	18.1	47.7	0-160	1 1/2"	300	250	Yes	
	26	TG-2133C	BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3)	FN05	GAS-111-0051C-FN05-6"-IS	2ND STAGE GAS COMPRESSOR TRAIN #C DISCHARGE LINE	6" / 600/RF /SCH.80	HYDROCARBON / GAS	GAS	142-150	175	54.8	90	0-250	1 1/2"	600	250	Yes	
	27	TG-2134A	BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3)	FS00	GAS-111-0058A-FS00-6"-NP	AE-2102A 2ND STAGE GAS COMPRESSION AIR COOLER TRAIN #A OUTLET	6" / 600/RF / SCH.40S	HYDROCARBON / GAS	GAS / LIQUID	60	175	54.1	62.4	0-160	1 1/2"	600	250	No	
	28	TG-2134B	BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3)	FS00	GAS-111-0058B-FS00-6"-NP	AE-2102B 2ND STAGE GAS COMPRESSION AIR COOLER TRAIN #B OUTLET	6" / 600/RF / SCH.40S	HYDROCARBON / GAS	GAS / LIQUID	60	175	54.1	62.4	0-160	1 1/2"	600	250	No	
	29	TG-2134C	BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3)	FS00	GAS-111-0058C-FS00-6"-NP	AE-2102C 2ND STAGE GAS COMPRESSION AIR COOLER TRAIN #C OUTLET	6" / 600/RF / SCH.40S	HYDROCARBON / GAS	GAS / LIQUID	60	175	54.1	62.4	0-160	1 1/2"	600	250	No	
	30	TG-2142	BK-GCS-PEDCO-120-PR-PI-0012	FN05	GAS-111-0066-FN05-6"-PT	GAS COMPRESSION DISCHARGE DRUM	6" / 600/RF /SCH.80	HYDROCARBON / GAS	GAS	59-60	130	53.9	90	0-160	1 1/2"	600	250	Yes	

 NISOC			نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک										 شرکت توسعه پترو ایران 							
			DATA SHEETS FOR TEMPERATURE GAUGE																	
شماره پیمان:			پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	مقیاس	نسخه	شماره صفحه: ۷ از ۷									
			BK	GCS	PEDCO	120	IN	DT	0002	D02										
۰۵۳ - ۷۳ - ۹۱۱۴																				
D02 D02 TEMPERATURE GAUGE D02 D02																				
Rev.	Item No.	Tag No.	P&ID No.	Piping Class	Line No./Equipment No.	SERVICE	Line Size/ Flange Facing/ Sch	Fluid	Phase	Operating Temperature (°C)	Design Temperature (°C)	Operating Pressure (barg)	Design Pressure (barg)	Instrument Range (°C)	Process Connection Size(in)	Rating	Insertion Length (L) mm	NACE	Remark	
D02	31	TG-2141	BK-GCS-PEDCO-120-PR-PI-0012	-	V-2103	GAS COMPRESSION DISCHARGE DRUM	-	HYDROCARBON / GAS	GAS/LIQUED	59-60	130	53.9	FV/62	0-160	2"	600	500	Yes		
DELETED	32	TG-2143	BK-GCS-PEDCO-120-PR-PI-0012	FN05	GAS-111-0066-FN05-6"-PT	EQUALIZER LINE INTO DEHYDRATION PACKAGE	6" / 600/RF /SCH.80	HYDROCARBON / GAS	GAS	59-60	130	53.9	62	0-160	1 1/2"	600	250	Yes		
	33	TG-2161	BK-GCS-PEDCO-120-PR-PI-0014	AN04	TEG-111-0001-AN04-3"-PT	LEAN GLYCOL STORAGE TANK TO DEHYDRATION PACKAGE	3" / 150/RF / SCH.40	LEAN GLYCOL	LIQUID	30	85	2.1	18.2	0-100	1 1/2"	300	200 (NOTE 7 IN GENERAL NOTES)	No		
	34	TG-2221	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	AN07	FLG-112-0010-AN07-2"-PT	CLOSED DRAIN DRUM	2" / 150/RF / SCH.160	HYDROCARBON / LIQUID	LIQUID	AMB	85	0.5	FV/6	0-100	1 1/2"	300	200 (NOTE 7 IN GENERAL NOTES)	Yes		
	35	TG-2251	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	-	V-2201	LP FLARE K.O. DRUM	-	FLARE / GAS	GAS	32	85	0.5	FV/6	0-100	2"	300	500	Yes		
	36	TG-2271	BK-GCS-PEDCO-120-PR-PI-0022	-	V-2205	FUEL GAS K.O. DRUM	-	FUEL GAS	GAS	33.6	85	4.9	18.2	0-100	2"	300	500	Yes		