



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
بسته‌های کاری تحت‌الارض

احداث خطوط انتقال گاز/مابغات گازی از ایستگاه تقویت فشار گاز بینک تا
ایستگاه تزریق گاز سیاه‌مکان/واحد بهره برداری بینک



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بسته کاری

صادرکننده

تسهیلات

رشته

نوع مدرک

سریال

نسخه

BK

PPL

PEDCO

320

IN

LI

0001

D03

شماره صفحه: ۱ از ۴

طرح نگهداشت و افزایش تولید 27 مخزن

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نگهداشت و افزایش تولید میدان نفتی بینک

D03	MAR.2023	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D02	FEB.2023	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D01	APR.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	JAN.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: F0Z-708608

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
بسته‌های کاری تحت‌الارض

احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار گاز بینک تا
ایستگاه تزریق گاز سیاه‌مکان/واحد بهره برداری بینک



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نگهداشت و افزایش تولید میدان نفتی بینک
بسته‌های کاری تحت الارض

احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار گاز بینک تا
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REFERENCES:

P&ID - GAS PIPELINE (TO SIAHMAKAN G.I. STATION)	BK-PPL-PEDCO-320-PR-PI-0001_D02
P&ID - CONDENSATE PIPELINE (TO BINAK PU)	BK-PPL-PEDCO-320-PR-PI-0002_D02
P&ID - SYMBOL & LEGEND for PFD and P&ID	BK-PPL-PEDCO-320-PR-PI-0003_D01

ABBREVIATIONS:

CC	CORROSION COUPON
CP/T	CORROSION PROBE/ TRANSMITTER
PSHH/PSL	PRESSURE SWITCH HIGH HIGH/LOW LOW LEVEL SHUTDOWN
PRV/PSV	PRESSURE RILIEF/SAFTEY VALVE
PT	PRESSURE TRANSMITTER
PCV	PRESSURE CONTROL VALVE
PG	PRESSURE GAUGE
TRV	TEMPERATURE RILIEF VALVE
TG	TEMPERATURE GAUGE
TT	TEMPERATURE TRANSMITTER
XV	ON/OFF VALVE
ESDV	EMERGENCY SHUTDOWN VALVE
BDV	BLOWDOWN VALVE
FE	FLOW ELEMENT
FT	FLOW TRANSMITTER
FCV	FLOW CONTROL VALVE
ZI	PIG SIGNALER INDICATOR
ZS	PIG SIGNALER SWITCH
DS	DOOR OPEN SWITCH
TDS	TOTAL DISSOLVED SOLID
IS	INTRINSICALLY SAFE
NIS	NON INTRINSICALLY SAFE
R	REDUNDANT
NR	NON REDUNDANT
IO	INPUT / OUTPUT
DI	DIGITAL INPUT SIGNAL
DO	DIGITAL OUTPUT SIGNAL
AI	ANALOGUE INPUT SIGNAL
AO	ANALOGUE OUTPUT SIGNAL
DCS	DISTRIBUTED CONTROL SYSTEM
ESD	EMERGENCY SHUT DOWN SYSTEM

NOTES:

- NOTE 1: Over Pressure Protection Shall Be Provided For The Device Considering Design Pressure.
NOTE 2: HART COMMUNICATOR DEVICE" provided in GCS work pack will be used for Calibrating of the transmitters.
NOTE 3: Rotameter process data will be finilized after receiving the data from client.

NOTE 4: The ESDV -3202 will be provided as new and shall Be Connected To new devices added to Siahmakan Existing Control & Emergency Shutdown Systems as extention.

NOTE 5: This Rotameter to be considered in datasheet 'BK-GCS-PEDCO-120-IN-DT-0018' and to be supplied with Binak GCS Rotameters.

D03

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک بنه های کاری تحت الارض احداث خطوط انتقال گاز لایمات گازی از ایستگاه تقویت فشار گاز بینک تا ایستگاه تزریق گاز سیاهکمان واحد بهره برداری بینک										 HIRCAN مهندسی و پیمانکاری		 TE	
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IDENTIFICATION			REFERENCE										PRESSURE (Barg)		TEMPERATURE (°C)		INSTRUMENT RANGE	CALIBRATION RANGE	INSTRUMENT UNIT	SYSTEM CONTROL	IO TYPE	SIGNAL TYPE	REMARK	REV.
ITEM	TAG	DESCRIPTION	LINE/EQUIPMENT	P&ID	SERVICE	LOCATION/ PACKAGE NAME	DATA SHEET NO.	HOOK UP DWG. NO.	LOOP DWG NO.	LOCAION LAYOUT DWG NO.	DESIGN Barg	OPER. Barg	DESIGN	OPER. °C										
1	ESDV-3201	Emergency Shutdown Valve (Body)	GAS-111-0072-FN05-6"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0006	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	-	-	-	-	-	-		
2	EZSC-3201	Limit Switch Close	GAS-111-0072-FN05-6"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0006	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0004	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	-	ESD (of new GCS)	DI-NIS-R	24 VDC				
3	EZSO-3201	Limit Switch Open	GAS-111-0072-FN05-6"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0006	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0004	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	-	ESD (of new GCS)	DI-NIS-R	24 VDC				
4	PSOV-3201	Solenoid Valve	GAS-111-0072-FN05-6"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0006	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0005	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	-	DCS (of new GCS)	DO-NIS-NR	24VDC LOOP POWER				
5	ESOV-3201	ESD Solenoid Valve	GAS-111-0072-FN05-6"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0006	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0004	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	-	ESD (of new GCS)	DO-NIS-R	24VDC LOOP POWER				
6	PT-3201A	PRESSURE TRANSMITTER	GAS-113-0072-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0003	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0004	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	Barg	ESD (of new GCS)	AH-IS-R	4-20 mA	Note 2			
7	PT-3201B	PRESSURE TRANSMITTER	GAS-113-0072-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0003	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0004	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	Barg	ESD (of new GCS)	AH-IS-R	4-20 mA	Note 2			
8	PT-3201C	PRESSURE TRANSMITTER	GAS-113-0072-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0003	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0004	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	Barg	ESD (of new GCS)	AH-IS-R	4-20 mA	Note 2			
9	PG-3201	PRESSURE GAUGE	PL-3201	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) PIG LAUNCHER	BK-PPL-PEDCO-320-IN-DT-0001	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	Barg	-	-	-	NOTE 1			
10	PSV-3201	PRESSURE SAFETY VALVE	GAS-113-0003-FN05-2"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) PIG LAUNCHER	BK-PPL-PEDCO-320-IN-DT-0005	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	-	-	-	-	-			
11	FG-3201	FLOW GAUGE ROTAMETER	CHM-112-0007-F500-3/4"-NP	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	FROM METHANOL HEADER (TO SIAHMAKAN G.I STATION)	BK-GCS-PEDCO-120-IN-DT-0018	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	NOTE 3	NOTE 3	NOTE 3	NOTE 3	-	-	-	-	-	-	NOTE 5			
12	PG-3202	PRESSURE GAUGE	GAS-113-0005-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) AFTER PIG LAUNCHER	BK-PPL-PEDCO-320-IN-DT-0001	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	Barg	-	-	-	-			
13	ZI-3201	PIG INDICATOR	GAS-113-0005-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (1/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) AFTER PIG LAUNCHER	BK-PPL-PEDCO-320-IN-DT-0010	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	50.9	85	58.3	-	-	-	-	-	-	-			
14	LBV-3201	LINE BREAK VALVE	GAS-113-0007-FN27-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (2/3)	GAS	AFTER PIG LAUNCHER, NEAR THE BEGINNING OF PIPELINE	BK-PPL-PEDCO-320-IN-DT-0012	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	43.9	85	31.78	-	-	-	-	-	-	-			
15	LBV-3202	LINE BREAK VALVE	GAS-113-0009-FN27-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (2/3)	GAS	BEFOR PIG RECEIVER, NEAR THE END OF PIPELINE	BK-PPL-PEDCO-320-IN-DT-0012	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	43.9	85	31.78	-	-	-	-	-	-	-			
16	CC-3202	CORROSION COUPON	CDH-113-0004-AN07-2"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) BEFOR PIG RECEIVER	BK-PPL-PEDCO-320-IN-DT-0009	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	-	-	-	-	-			
17	PG-3203	PRESSURE GAUGE	GAS-113-0011-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) BEFOR PIG RECEIVER	BK-PPL-PEDCO-320-IN-DT-0001	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	Barg	-	-	-	-			
18	TG-3202	TEMPERATURE GAUGE	GAS-113-0015-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) BEFOR PIG RECEIVER	BK-PPL-PEDCO-320-IN-DT-0002	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	°C	-	-	-	-			
19	ZI-3202	PIG INDICATOR	PR-3201	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) BEFOR PIG RECEIVER	BK-PPL-PEDCO-320-IN-DT-0010	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	-	-	-	-	-			
20	PG-3204	PRESSURE GAUGE	PR-3201	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) BEFOR PIG RECEIVER	BK-PPL-PEDCO-320-IN-DT-0001	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	Barg	-	-	-	-			
21	ZI-3203	PIG INDICATOR	PR-3201	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) PIG RECEIVER	BK-PPL-PEDCO-320-IN-DT-0010	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	-	-	-	-	-			
22	PG-3205	PRESSURE GAUGE	PR-3201	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) PIG RECEIVER	BK-PPL-PEDCO-320-IN-DT-0001	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	Barg	-	-	-	-			
23	PSV-3202	PRESSURE SAFETY VALVE	GAS-113-0014-FN05-2"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION) PIG RECEIVER	BK-PPL-PEDCO-320-IN-DT-0005	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	-	-	-	-	-			
24	ESDV-3202	Emergency Shutdown Valve (Body)	GAS-113-0115-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0006	BK-PPL-PEDCO-320-IN-DG-0002	-	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	-	-	-	-	-			
25	EZSC-3202	Limit Switch Close	GAS-113-0115-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0006	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0004	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	-	EXISTING ESD/DCS	DI-NIS-R	24 VDC	NOTE 4			
26	EZSO-3202	Limit Switch Open	GAS-113-0115-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0006	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0004	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	-	EXISTING ESD/DCS	DI-NIS-R	24 VDC	NOTE 4			
27	PSOV-3202	Solenoid Valve	GAS-113-0115-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0006	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0005	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	-	EXISTING ESD/DCS	DO-NIS-NR	24VDC LOOP POWER	NOTE 4			
28	ESOV-3202	ESD Solenoid Valve	GAS-113-0115-FN05-8"-PT	BK-PPL-PEDCO-320-PR-P1-0001 (3/3)	GAS	GAS PIPELINE (TO SIAHMAKAN G.I STATION)	BK-PPL-PEDCO-320-IN-DT-0006	BK-PPL-PEDCO-320-IN-DG-0002	BK-PPL-PEDCO-320-IN-DG-0004	BK-PPL-PEDCO-320-IN-PY-0002	62	40	85	31.3	-	-	-	EXISTING ESD/DCS	DO-NIS-R	24VDC LOOP POWER	NOTE 4			