

|                                                                                                  |                                                                                                          |                  |                    |                |            |                |                                                                                                                                                                           |             |                     |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------|--------------------|----------------|------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|
| <br><b>NISOC</b> | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض<br><br>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک |                  |                    |                |            |                | <br> |             |                     |
|                                                                                                  | DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE                                                          |                  |                    |                |            |                |                                                                                                                                                                           |             |                     |
| شماره پیمان:<br>053 - 073 - 9184                                                                 | پروژه<br>BK                                                                                              | بسته کاری<br>GCS | صادرکننده<br>PEDCO | تسهیلات<br>120 | رشته<br>IN | نوع مدرک<br>DT | سریال<br>0001                                                                                                                                                             | نسخه<br>D02 | شماره صفحه: 1 از 10 |

## طرح نگهداشت و افزایش تولید 27 مخزن

### DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE

#### نگهداشت و افزایش تولید میدان نفتی بینک

| D02  | JAN.2024 | AFC                       | P.Hajisadeghi | M.Fakharian | S.Faramarzpour |                 |
|------|----------|---------------------------|---------------|-------------|----------------|-----------------|
| 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-708922 |
|----------|--------------------------------|

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  
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR PRESSURE &amp; DIFF. PRESSURE GAUGE

شماره پیمان:

053 - 073 - 9184

| نسخه | سریال | نوع مدرک | رشته | تسهیلات | صادرکننده | بسته کاری | پروژه |
|------|-------|----------|------|---------|-----------|-----------|-------|
| D02  | 0001  | DT       | IN   | 120     | PEDCO     | GCS       | BK    |

شماره صفحه: 2 از 10

## REVISION RECORD SHEET

| Page | D00 | D02 | D02 | D03 | D04 | Page | D00 | D02 | D02 | D03 | D04 |
|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| 1    | X   | X   | X   |     |     | 65   |     |     |     |     |     |
| 2    | X   | X   | X   |     |     | 66   |     |     |     |     |     |
| 3    | X   | X   |     |     |     | 67   |     |     |     |     |     |
| 4    | X   | X   |     |     |     | 68   |     |     |     |     |     |
| 5    | X   | X   |     |     |     | 69   |     |     |     |     |     |
| 6    | X   | X   | X   |     |     | 70   |     |     |     |     |     |
| 7    | X   | X   | X   |     |     | 71   |     |     |     |     |     |
| 8    | X   | X   | X   |     |     | 72   |     |     |     |     |     |
| 9    |     | X   | X   |     |     | 73   |     |     |     |     |     |
| 10   |     | X   | X   |     |     | 74   |     |     |     |     |     |
| 11   |     |     |     |     |     | 75   |     |     |     |     |     |
| 12   |     |     |     |     |     | 76   |     |     |     |     |     |
| 13   |     |     |     |     |     | 77   |     |     |     |     |     |
| 14   |     |     |     |     |     | 78   |     |     |     |     |     |
| 15   |     |     |     |     |     | 79   |     |     |     |     |     |
| 16   |     |     |     |     |     | 80   |     |     |     |     |     |
| 17   |     |     |     |     |     | 81   |     |     |     |     |     |
| 18   |     |     |     |     |     | 82   |     |     |     |     |     |
| 19   |     |     |     |     |     | 83   |     |     |     |     |     |
| 20   |     |     |     |     |     | 84   |     |     |     |     |     |
| 21   |     |     |     |     |     | 85   |     |     |     |     |     |
| 22   |     |     |     |     |     | 86   |     |     |     |     |     |
| 23   |     |     |     |     |     | 87   |     |     |     |     |     |
| 24   |     |     |     |     |     | 88   |     |     |     |     |     |
| 25   |     |     |     |     |     | 89   |     |     |     |     |     |
| 26   |     |     |     |     |     | 90   |     |     |     |     |     |
| 27   |     |     |     |     |     | 91   |     |     |     |     |     |
| 28   |     |     |     |     |     | 92   |     |     |     |     |     |
| 29   |     |     |     |     |     | 93   |     |     |     |     |     |
| 30   |     |     |     |     |     | 94   |     |     |     |     |     |
| 31   |     |     |     |     |     | 95   |     |     |     |     |     |
| 32   |     |     |     |     |     | 96   |     |     |     |     |     |
| 33   |     |     |     |     |     | 97   |     |     |     |     |     |
| 34   |     |     |     |     |     | 98   |     |     |     |     |     |
| 35   |     |     |     |     |     | 99   |     |     |     |     |     |
| 36   |     |     |     |     |     | 100  |     |     |     |     |     |
| 37   |     |     |     |     |     | 101  |     |     |     |     |     |
| 38   |     |     |     |     |     | 102  |     |     |     |     |     |
| 39   |     |     |     |     |     | 103  |     |     |     |     |     |
| 40   |     |     |     |     |     | 104  |     |     |     |     |     |
| 41   |     |     |     |     |     | 105  |     |     |     |     |     |
| 42   |     |     |     |     |     | 106  |     |     |     |     |     |
| 43   |     |     |     |     |     | 107  |     |     |     |     |     |
| 44   |     |     |     |     |     | 108  |     |     |     |     |     |
| 45   |     |     |     |     |     | 109  |     |     |     |     |     |
| 46   |     |     |     |     |     | 110  |     |     |     |     |     |
| 47   |     |     |     |     |     | 111  |     |     |     |     |     |
| 48   |     |     |     |     |     | 112  |     |     |     |     |     |
| 49   |     |     |     |     |     | 113  |     |     |     |     |     |
| 50   |     |     |     |     |     | 114  |     |     |     |     |     |
| 51   |     |     |     |     |     | 115  |     |     |     |     |     |
| 52   |     |     |     |     |     | 116  |     |     |     |     |     |
| 53   |     |     |     |     |     | 117  |     |     |     |     |     |
| 54   |     |     |     |     |     | 118  |     |     |     |     |     |
| 55   |     |     |     |     |     | 119  |     |     |     |     |     |
| 56   |     |     |     |     |     | 120  |     |     |     |     |     |
| 57   |     |     |     |     |     | 121  |     |     |     |     |     |
| 58   |     |     |     |     |     | 122  |     |     |     |     |     |
| 59   |     |     |     |     |     | 123  |     |     |     |     |     |
| 60   |     |     |     |     |     | 124  |     |     |     |     |     |
| 61   |     |     |     |     |     | 125  |     |     |     |     |     |
| 62   |     |     |     |     |     | 126  |     |     |     |     |     |
| 63   |     |     |     |     |     | 127  |     |     |     |     |     |
| 64   |     |     |     |     |     | 128  |     |     |     |     |     |



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0001

نسخه

D02

شماره صفحه: 3 از 10

#### 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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سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE

|                  |       |           |           |         |      |          |       |      |                     |
|------------------|-------|-----------|-----------|---------|------|----------|-------|------|---------------------|
| شماره پیمان:     | پروژه | بسته کاری | صادرکننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه | شماره صفحه: 4 از 10 |
| 053 - 073 - 9184 | BK    | GCS       | PEDCO     | 120     | IN   | DT       | 0001  | D02  |                     |

#### GENERAL NOTES:

- Pressure elements shall be capable of withstanding intermittent over-ranging to 1.3 times the maximum scale reading.
  - Ranges shall be selected suitable to have the operating pressure in the middle third of the scale.
  - Vendor is responsible for applying suitable accessories to prevent damage and to reach required accuracy for PG.
  - Vendor to follow materials indicated in the Data Sheets, related wetted parts, these materials can be as minimum and shall be verified by vendor.
  - Gauges shall be supplied with syphon on steam services which operating temperatures are more than 100°C.
  - 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
    - Manufacturer model and serial number
  - Weep hole shall be provided on the case bottom of all gauges.
  - Material Test Certificate and Calibration Certificate for all gauges to be submitted by vendor.
  - Each pressure gauge which doesn't have Diaphragm Seal, shall be supplied with a Two way (valve) manifold (block & bleed manifold) by vendor (Process Conn. 1/2"NPTF, 316 S.S.).
  - 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: 50 (°C)  
 DB/RH for Summer HVAC Design: 41 °C / 61 % (Note \*/ Note\*\*  
 DB FOR Winter HVAC Design: 6 °C
- Relative Humidity:**
- Maximum Design relative humidity (%): 100
  - Minimum Design relative humidity (%): 0
11. Will be finalized as per Safety Department information.



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE



شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تجهیزات

120

رشته

IN

نوع مدرک

DT

سریال

0001

نسخه

D02

شماره صفحه: 5 از 10

PRESSURE GAUGE

|                   |    |                               |                       |                                  |                                                      |
|-------------------|----|-------------------------------|-----------------------|----------------------------------|------------------------------------------------------|
| GENERAL           | 1  | Tag No.                       | P&ID No.              | SEE PAGE 6                       | SEE PAGE 6                                           |
|                   | 2  | Service                       | Piping Class          | SEE PAGE 6                       | SEE PAGE 6                                           |
|                   | 3  | Area Clacification            |                       | Zone 2, IIB T4                   |                                                      |
| PROCESS CONDITION | 4  | Fluid                         | Phase                 | SEE PAGE 6                       | SEE PAGE 6                                           |
|                   | 5  | Operating. Pressure           | Design. Pressure      | SEE PAGE 6                       | (barg)                                               |
|                   | 6  | Operating. Temperature        | Design. Temperature   | SEE PAGE 6                       | (°C)                                                 |
|                   | 7  | Min. Design Metal Temperature |                       | SEE PAGE 6                       | (°C)                                                 |
|                   | 8  | Range                         |                       | SEE PAGE 6                       |                                                      |
| GAUGE             | 9  | Type                          |                       | Pressure Gauge-Direct Reading    |                                                      |
|                   | 10 | Instrument Range              |                       | SEE PAGE 6                       |                                                      |
|                   | 11 | Liquid Filled                 |                       | Silicon Oil - SEE PAGE 6~9       | (Note 5)                                             |
|                   | 12 | Mounting                      |                       | Direct                           |                                                      |
|                   | 13 | Dial Size                     | Dial Color            | Zero Adjustment                  | 150 mm White with black lettering Adjustable pointer |
|                   | 14 | Case Material                 | Ring Material         | 304 SS (Note 2 & 9)              | 304 SS                                               |
|                   | 15 | Blow-Out Protection           |                       | Required-Back                    |                                                      |
|                   | 16 | Windows Material              | Dial Material         | Shatter proof glass              | Aluminum                                             |
|                   | 17 | Pressure Element Type         |                       | SEE PAGE 6                       |                                                      |
|                   | 18 | Pressure Element Material     | Stem Material         | SEE PAGE 6                       | 316 SS                                               |
|                   | 19 | Connection Material           |                       | 316 S.S                          |                                                      |
|                   | 20 | Connection Size               |                       | 1/2 " NPT                        |                                                      |
|                   | 21 | Connection Location           |                       | Bottom                           |                                                      |
|                   | 22 | Movement Material             |                       | 316 S.S                          |                                                      |
|                   | 23 | Nominal Accuracy              |                       | 0.5% F.S                         |                                                      |
|                   | 24 | Ingress Protection            |                       | IP-65 as minimum                 |                                                      |
| DIAPHRAGM SEAL    | 25 | Type                          |                       | N/A                              |                                                      |
|                   | 26 | Size (In)                     |                       | N/A                              |                                                      |
|                   | 27 | Diaphragm Material            |                       | N/A                              |                                                      |
|                   | 28 | Fill Fluid                    |                       | N/A                              |                                                      |
|                   | 29 | Capillary Length              |                       | N/A                              |                                                      |
|                   | 30 | Capillary Material            |                       | N/A                              |                                                      |
|                   | 31 |                               |                       |                                  |                                                      |
| OPTIONS           | 32 | Movement Damping              |                       | SEE PAGE 6                       |                                                      |
|                   | 33 | Overrange Protection          |                       | SEE PAGE 6 (1.3 of F.S) (Note 7) |                                                      |
|                   | 34 | Siphon                        | Material              | SEE PAGE 6                       | 316 S.S                                              |
|                   | 35 | Manifold                      | Body Material         | 2 Way Manifold                   | 316 S.S                                              |
|                   | 36 | Process Connection            | Rating                | SEE PAGE 6 (Note 6)              | SEE PAGE 6                                           |
|                   | 37 | Manifold Model                | Manifold Manufacturer | VTA                              | VTA                                                  |
|                   | 38 | NACE Requirements             |                       | SEE PAGE 6                       | (Note 1)                                             |
|                   | 39 |                               |                       |                                  |                                                      |
| PURCHASING DATA   | 41 | Model No.                     | Manufacturer          | (Note 8)                         | (Note 8)                                             |
|                   | 42 | Supplier                      | Order                 | (Note 8)                         | (Note 8)                                             |
|                   | 43 |                               |                       |                                  |                                                      |
|                   | 44 |                               |                       |                                  |                                                      |

NOTES :

VTA : Vendor to Advise

- (1) NACE-MR-0175/ISO 15156 requirements shall be covered where Piping/Pipeline Material Specification recommended.
- (2) Window shall be heavy plate glass, breakage resistance and shatter proof.
- (3) Pressure gauges shall be double scale type (Bar and Psi).
- (4) All gauges shall be equipped with screw driver slot type adjustment for calibration purposes.
- (5) Oil-filled system or Pulsation dampeners shall be supplied for all pressure instruments and gauges in vibrating or pulsating services.
- (6) 1/2"NPT for Instrument/Process connection and 1/4" NPT for Drain Connection-All Manifolds, Pulsation Dampners and Siphons shall be suitable for connecting to gauges (1/2" NPT). And the material shall be 316 SS.
- (7) Over range protection shall be 1.3 times the maximum range.
- (8) Will be finalized later at the purchasing time.
- (9) Cases for pressure gauges shall be solid front stainless steel.
- (10) Weep hole shall be provided on the case bottom of all gauges.

|                                                                                                              |          |          |                                                                                                                                 |                                                       |                          |              |                    |                       |                       |            |                                 |                              |                                                                                                                                                                                               |                               |                            |                  |                           |                               |                                   |                          |        |                   |      |       |        |     |
|--------------------------------------------------------------------------------------------------------------|----------|----------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------|--------------|--------------------|-----------------------|-----------------------|------------|---------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------|------------------|---------------------------|-------------------------------|-----------------------------------|--------------------------|--------|-------------------|------|-------|--------|-----|
| <div></div> <div>NISOC</div> |          |          | <div>نگهداشت و افزایش تولید میدان نفتی بینک</div> <div>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                                       |                          |              |                    |                       |                       |            |                                 |                              | <div></div> <div></div> |                               |                            |                  |                           |                               |                                   |                          |        |                   |      |       |        |     |
|                                                                                                              |          |          |                                                                                                                                 |                                                       |                          |              |                    |                       |                       |            |                                 |                              |                                                                                                                                                                                               |                               |                            |                  |                           |                               |                                   |                          |        |                   |      |       |        |     |
|                                                                                                              |          |          | DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE                                                                                 |                                                       |                          |              |                    |                       |                       |            |                                 |                              |                                                                                                                                                                                               |                               |                            |                  |                           |                               |                                   |                          |        |                   |      |       |        |     |
| شماره پیمان:                                                                                                 |          |          | پروژه                                                                                                                           | بنه کاری                                              | صادر کننده               | تجهیزات      | رشته               | نوع مدرک              | سریال                 | نسخه       | شماره صفحه: 6 از 10             |                              |                                                                                                                                                                                               |                               |                            |                  |                           |                               |                                   |                          |        |                   |      |       |        |     |
|                                                                                                              |          |          | BK                                                                                                                              | GCS                                                   | PEDCO                    | 120          | IN                 | DT                    | 0001                  | D02        |                                 |                              |                                                                                                                                                                                               |                               |                            |                  |                           |                               |                                   |                          |        |                   |      |       |        |     |
| PRESSURE GAUGE                                                                                               |          |          |                                                                                                                                 |                                                       |                          |              |                    |                       |                       |            |                                 |                              |                                                                                                                                                                                               |                               |                            |                  |                           |                               |                                   |                          |        |                   |      |       |        | D02 |
| Rev.                                                                                                         | Item No. | Tag No.  | P&IDs No.                                                                                                                       | Service.                                              | LINE/<br>EQUIPME<br>NT   | Piping Class | Manifold<br>Rating | Process<br>Connection | Fluid                 | Phase      | Operating<br>Pressure<br>(barg) | Design<br>Pressure<br>(barg) | Operating<br>Temperature<br>(°C)                                                                                                                                                              | Design<br>Temperature<br>(°C) | Instrument<br>Range (barg) | Liquid<br>Filled | Press.<br>Element<br>Type | Press.<br>Element<br>Material | Movement<br>Dampener<br>(Snubber) | Over Range<br>Protection | Siphon | Diaphragm<br>Seal | Nace | Model | Remark |     |
| D02-Modified                                                                                                 | 1        | PG-2101  | BK-GCS-PEDCO-120-PR-PI-0002                                                                                                     | EXISTING GAS PIG<br>RECEIVER                          | GAS-111-0001-AN07-6"-PT  | AN07         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 7.5                             | 18.2                         | 46.11/26.67                                                                                                                                                                                   | 85                            | 0-16                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 2        | PG-2102  | BK-GCS-PEDCO-120-PR-PI-0002                                                                                                     | EXISTING GAS PIG<br>RECEIVER                          | GAS-111-0001-AN07-6"-PT  | AN07         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 7.5                             | 18.2                         | 46.11/26.67                                                                                                                                                                                   | 85                            | 0-16                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 3        | PG-2103  | BK-GCS-PEDCO-120-PR-PI-0003                                                                                                     | GAS PIG RECEIVER                                      | GAS-111-0008-FN07-8"-PT  | FN07         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 7.5                             | 175                          | 15.5-32                                                                                                                                                                                       | 85                            | 0-16                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 4        | PG-2104  | BK-GCS-PEDCO-120-PR-PI-0003                                                                                                     | GAS PIG RECEIVER                                      | GAS-111-0008-FN07-8"-PT  | FN07         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 7.5                             | 175                          | 15.5-32                                                                                                                                                                                       | 85                            | 0-16                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 5        | PG-2111  | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2)                                                                                            | SLUG CATCHER DRUM                                     | V-2104                   | AN07         | #6000              | 1/2" NPT              | HYDROCARBON/W<br>ATER | GAS        | 5.5                             | FV/9                         | 15.5-32                                                                                                                                                                                       | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 6        | PG-2114A | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)                                                                                            | SLUG PUMPS                                            | CDH-111-0010-AS00-4"-NP  | AS00         | #3000              | 1/2" NPT              | WATER                 | LIQUID     | 5.5                             | 13.9                         | 23.22/8.82                                                                                                                                                                                    | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 7        | PG-2113A | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)                                                                                            | SLUG PUMPS                                            | CDH-111-0012-CN05-3"-PT  | CN05         | #6000              | 1/2" NPT              | WATER                 | LIQUID     | 19.5                            | 47.7                         | AMB                                                                                                                                                                                           | 85                            | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 8        | PG-2113B | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)                                                                                            | SLUG PUMPS                                            | CDH-111-0013-CN05-4"-PT  | CN05         | #6000              | 1/2" NPT              | WATER                 | LIQUID     | 19.5                            | 47.7                         | AMB                                                                                                                                                                                           | 85                            | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 9        | PG-2114B | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)                                                                                            | SLUG PUMPS                                            | CDH-111-0011-AS00-4"-PT  | AS00         | #3000              | 1/2" NPT              | WATER                 | LIQUID     | 5.5                             | 13.9                         | 23.22/8.82                                                                                                                                                                                    | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 10       | PG-2114  | BK-GCS-PEDCO-120-PR-PI-0005                                                                                                     | INLET KNOCK OUT DRUM                                  | V-2105                   | AN07         | #6000              | 1/2" NPT              | HYDROCARBON/W<br>ATER | GAS        | 5.3                             | FV/9                         | 19-37                                                                                                                                                                                         | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 11       | PG-2115  | BK-GCS-PEDCO-120-PR-PI-0005                                                                                                     | GAS                                                   | GAS-111-0025-AN07-10"-PT | AN07         | #6000              | 1/2" NPT              | HYDROCARBON/W<br>ATER | GAS        | 5.1                             | 18.2                         | 19-37                                                                                                                                                                                         | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 12       | PG-2121A | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSION SUCTION<br>DRUM TRAIN #A | V-2101-A                 | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 5.1                             | FV/22                        | 19-37                                                                                                                                                                                         | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 13       | PG-2121B | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSION SUCTION<br>DRUM TRAIN #B | V-2101-B                 | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 5.1                             | FV/22                        | 19-37                                                                                                                                                                                         | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 14       | PG-2121C | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSION SUCTION<br>DRUM TRAIN #C | V-2101-C                 | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 5.1                             | FV/22                        | 19-37                                                                                                                                                                                         | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 15       | PG-2122A | BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSOR TRAIN#A                   | GAS-111-0031A-CN05-8"-ET | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 4.9                             | 47.7                         | 18-35                                                                                                                                                                                         | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 16       | PG-2123A | BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSOR TRAIN#A                   | GAS-111-0036A-CN05-6"-NP | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 19                              | 47.7                         | 113/124                                                                                                                                                                                       | 155                           | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 17       | PG-2122B | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSOR TRAIN#B                   | GAS-111-0031B-CN05-8"-ET | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 4.9                             | 47.7                         | 18-35                                                                                                                                                                                         | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 18       | PG-2123B | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSOR TRAIN#B                   | GAS-111-0036B-CN05-6"-NP | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 19                              | 47.7                         | 113/124                                                                                                                                                                                       | 155                           | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 19       | PG-2122C | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSOR TRAIN#C                   | GAS-111-0031C-CN05-8"-ET | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 4.9                             | 47.7                         | 18-35                                                                                                                                                                                         | 85                            | 0-10                       | Yes              | Bourdon                   | SS 316L                       | No                                | Yes                      | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 20       | PG-2123C | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSOR TRAIN#C                   | GAS-111-0036C-CN05-6"-NP | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 19                              | 47.7                         | 113/124                                                                                                                                                                                       | 155                           | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 21       | PG-2124A | BK-GCS-PEDCO-120-PR-PI-0008 (1 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSION AIR<br>COOLER TRAIN #A   | GAS-111-0037A-CS00-6"-NP | CS00         | #3000              | 1/2" NPT              | HYDROCARBON           | GAS/LIQUID | 18.3                            | 30.3                         | 60                                                                                                                                                                                            | 155                           | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 22       | PG-2124B | BK-GCS-PEDCO-120-PR-PI-0008 (2 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSION AIR<br>COOLER TRAIN #B   | GAS-111-0037B-CS00-6"-NP | CS00         | #3000              | 1/2" NPT              | HYDROCARBON           | GAS/LIQUID | 18.3                            | 30.3                         | 60                                                                                                                                                                                            | 155                           | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 23       | PG-2124C | BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3)                                                                                            | 1ST STAGE GAS<br>COMPRESSION AIR<br>COOLER TRAIN #C   | GAS-111-0037C-CS00-6"-NP | CS00         | #3000              | 1/2" NPT              | HYDROCARBON           | GAS/LIQUID | 18.3                            | 30.3                         | 60                                                                                                                                                                                            | 155                           | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 24       | PG-2131A | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3)                                                                                            | 2ND STAGE GAS<br>COMPRESSOR CUCTION<br>DRUM TRAIN #A  | V-2102-A                 | CS00         | #3000              | 1/2" NPT              | HYDROCARBON           | GAS        | 18.3                            | FV/22                        | 60                                                                                                                                                                                            | 115.4                         | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 25       | PG-2131B | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3)                                                                                            | 2ND STAGE GAS<br>COMPRESSOR CUCTION<br>DRUM TRAIN #B  | V-2102-B                 | CS00         | #3000              | 1/2" NPT              | HYDROCARBON           | GAS        | 18.3                            | FV/22                        | 60                                                                                                                                                                                            | 115.4                         | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 26       | PG-2131C | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3)                                                                                            | 2ND STAGE GAS<br>COMPRESSOR CUCTION<br>DRUM TRAIN #C  | V-2102-C                 | CS00         | #3000              | 1/2" NPT              | HYDROCARBON           | GAS        | 18.3                            | FV/22                        | 60                                                                                                                                                                                            | 115.4                         | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 27       | PG-2132A | BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)                                                                                            | 2ND STAGE GAS<br>COMPRESSOR TRAIN#A                   | GAS-111-0044A-CN05-6"-ET | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 18.1                            | 47.7                         | 59-60                                                                                                                                                                                         | 115.4                         | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 28       | PG-2133A | BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)                                                                                            | 2ND STAGE GAS<br>COMPRESSOR TRAIN#A                   | GAS-111-0051A-FN05-6"-IS | FN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 54.8                            | 90                           | 142-150                                                                                                                                                                                       | 175                           | 0-100                      | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |
| D02-Modified                                                                                                 | 29       | PG-2132B | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3)                                                                                            | 2ND STAGE GAS<br>COMPRESSOR TRAIN#B                   | GAS-111-0044B-CN05-6"-ET | CN05         | #6000              | 1/2" NPT              | HYDROCARBON           | GAS        | 18.1                            | 47.7                         | 59-60                                                                                                                                                                                         | 115.4                         | 0-40                       | Yes              | Bourdon                   | SS 316L                       | No                                | No                       | No     | No                | Yes  | VTA   |        |     |

|                                                                                                              |          |          |                                                     |                                              |                          |              |                 |                    |                   |            |                           |                                   |                            |                         |                                                                                                                                                                                                                                      |               |                     |                         |                           |                       |        |                |      |       |        |  |  |     |  |
|--------------------------------------------------------------------------------------------------------------|----------|----------|-----------------------------------------------------|----------------------------------------------|--------------------------|--------------|-----------------|--------------------|-------------------|------------|---------------------------|-----------------------------------|----------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|-------------------------|---------------------------|-----------------------|--------|----------------|------|-------|--------|--|--|-----|--|
| <div></div> <div>NISOC</div> |          |          | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض |                                              |                          |              |                 |                    |                   |            |                           |                                   |                            |                         | <div></div> <div>شرکت توسعه و پتروشیمی ایران</div> <div></div> |               |                     |                         |                           |                       |        |                |      |       |        |  |  |     |  |
|                                                                                                              |          |          | DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE     |                                              |                          |              |                 |                    |                   |            |                           |                                   |                            |                         |                                                                                                                                                                                                                                      |               |                     |                         |                           |                       |        |                |      |       |        |  |  |     |  |
|                                                                                                              |          |          |                                                     |                                              |                          |              |                 |                    |                   |            |                           |                                   |                            |                         |                                                                                                                                                                                                                                      |               |                     |                         |                           |                       |        |                |      |       |        |  |  |     |  |
| شماره پیمان:<br>053 - 073 – 9184                                                                             |          |          | پروژه                                               |                                              | بنده کاری                |              | صادر کننده      |                    | تجهیزات           |            | رشته                      |                                   | نوع مدرک                   |                         | سریال                                                                                                                                                                                                                                |               | نسخه                |                         | شماره صفحه: 7 از 10       |                       |        |                |      |       |        |  |  |     |  |
|                                                                                                              |          |          | BK                                                  |                                              | GCS                      |              | PEDCO           |                    | 120               |            | IN                        |                                   | DT                         |                         | 0001                                                                                                                                                                                                                                 |               | D02                 |                         |                           |                       |        |                |      |       |        |  |  |     |  |
| PRESSURE GAUGE                                                                                               |          |          |                                                     |                                              |                          |              |                 |                    |                   |            |                           |                                   |                            |                         |                                                                                                                                                                                                                                      |               |                     |                         |                           |                       |        |                |      |       |        |  |  | D02 |  |
| Rev.                                                                                                         | Item No. | Tag No.  | P&IDs No.                                           | Service.                                     | LINE/<br>EQUIP<br>MENT   | Piping Class | Manifold Rating | Process Connection | Fluid             | Phase      | Operating Pressure (barg) | Design Pressure (barg)            | Operating Temperature (°C) | Design Temperature (°C) | Instrument Range (barg)                                                                                                                                                                                                              | Liquid Filled | Press. Element Type | Press. Element Material | Movement Damper (Snubber) | Over Range Protection | Siphon | Diaphragm Seal | Nace | Model | Remark |  |  |     |  |
| D02-Modified                                                                                                 | 30       | PG-2133B | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3)                | 2ND STAGE GAS COMPRESSOR TRAIN#B             | GAS-111-0051B-FN05-6"-IS | FN05         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS        | 54.8                      | 90                                | 142-150                    | 175                     | 0-100                                                                                                                                                                                                                                | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 31       | PG-2132C | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3)                | 2ND STAGE GAS COMPRESSOR TRAIN#C             | GAS-111-0044C-CN05-6"-ET | CN05         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS        | 18.1                      | 47.7                              | 59-60                      | 115.4                   | 0-40                                                                                                                                                                                                                                 | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 32       | PG-2133C | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3)                | 2ND STAGE GAS COMPRESSOR TRAIN#C             | GAS-111-0051C-FN05-6"-IS | FN05         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS        | 54.8                      | 90                                | 142-150                    | 175                     | 0-100                                                                                                                                                                                                                                | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 33       | PG-2134A | BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3)                | 2ND STAGE GAS COMPRESSION AIR COOLER TRAIN#A | GAS-111-0058A-FS00-6"-NP | FS00         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS/LIQUID | 54.1                      | 62.4                              | 60                         | 175                     | 0-100                                                                                                                                                                                                                                | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 34       | PG-2134B | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3)                | 2ND STAGE GAS COMPRESSION AIR COOLER TRAIN#B | GAS-111-0058B-FS00-6"-NP | FS00         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS/LIQUID | 54.1                      | 62.4                              | 60                         | 175                     | 0-100                                                                                                                                                                                                                                | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 35       | PG-2134C | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3)                | 2ND STAGE GAS COMPRESSION AIR COOLER TRAIN#C | GAS-111-0058C-FS00-6"-NP | FS00         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS/LIQUID | 54.1                      | 62.4                              | 60                         | 175                     | 0-100                                                                                                                                                                                                                                | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 36       | PG-2142  | BK-GCS-PEDCO-120-PR-PI-0012                         | GAS COMPRESSION DISCHARGE DRUM               | V-2103                   | FN05         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS        | 53.9                      | 90                                | 59-60                      | 130                     | 0-100                                                                                                                                                                                                                                | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 37       | PG-2141  | BK-GCS-PEDCO-120-PR-PI-0012                         | GAS COMPRESSION DISCHARGE DRUM               | V-2103                   | FN05         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS        | 53.9                      | FV#2                              | 59-60                      | 130                     | 0-100                                                                                                                                                                                                                                | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 38       | PG-2162  | BK-GCS-PEDCO-120-PR-PI-0014                         | GLYCOL TRANSFER PUMP                         | TEG-111-0007-AN04-2"-PT  | AN04         | #3000           | 1/2" NPT           | LEAN GLYCOL       | LIQUID     | 0.02                      | 18.2                              | AMB                        | 85                      | 0-40 mbar VTA                                                                                                                                                                                                                        | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 39       | PG-2163A | BK-GCS-PEDCO-120-PR-PI-0014                         | GLYCOL TRANSFER PUMP                         | TEG-111-0002-AN04-2"-PT  | AN04         | #3000           | 1/2" NPT           | LEAN GLYCOL       | LIQUID     | 2.1                       | 18.2                              | AMB                        | 85                      | 0-4                                                                                                                                                                                                                                  | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 40       | PG-2163B | BK-GCS-PEDCO-120-PR-PI-0014                         | GLYCOL TRANSFER PUMP                         | TEG-111-0006-AN04-2"-PT  | AN04         | #3000           | 1/2" NPT           | LEAN GLYCOL       | LIQUID     | 2.1                       | 18.2                              | AMB                        | 85                      | 0-4                                                                                                                                                                                                                                  | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 41       | PG-2161  | BK-GCS-PEDCO-120-PR-PI-0014                         | LEAN GLYCOL STORAGE TANK                     | TOP OF THE TK-2102       | AN07         | #6000           | 1/2" NPT           | LEAN GLYCOL       | GAS        | 0.1                       | FULL OF LIQUID + 150MBARG/-7MBARG | AMB                        | 85                      | 0-250 mbar VTA                                                                                                                                                                                                                       | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Added                                                                                                    | 42       | PG-2298  | BK-GCS-PEDCO-120-PR-PI-0014                         | LEAN GLYCOL STORAGE TANK                     | TEG-111-0004-AN04-2"-PT  | AN04         | #3000           | 1/2" NPT           | LEAN GLYCOL       | GAS        | 0.1                       | 18.2                              | AMB                        | 85                      | 0-250 mbar VTA                                                                                                                                                                                                                       | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 43       | PG-2201  | BK-GCS-PEDCO-120-PR-PI-0015 (2 of 2)                | Instrument Air Receiver                      | ISA-112-0012-AZ00-2"-NP  | AZ00         | #3000           | 1/2" NPT           | Air               | GAS        | 8                         | 18.2                              | 65                         | 85                      | 0-16                                                                                                                                                                                                                                 | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 44       | PG-2202  | BK-GCS-PEDCO-120-PR-PI-0015 (2 of 2)                | Instrument Air Receiver                      | V-2203                   | AZ00         | #3000           | 1/2" NPT           | Air               | GAS        | 8                         | 12.5                              | 65                         | 85                      | 0-16                                                                                                                                                                                                                                 | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 45       | PG-2211  | BK-GCS-PEDCO-120-PR-PI-0016                         | Nitrogen Receiver                            | NIT-112-0021-AN01-2"-PT  | AN01         | #3000           | 1/2" NPT           | Nitrogen          | GAS        | 8                         | 18.2                              | 60                         | 85                      | 0-16                                                                                                                                                                                                                                 | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 46       | PG-2212  | BK-GCS-PEDCO-120-PR-PI-0016                         | Nitrogen Receiver                            | V-2204                   | AN01         | #3000           | 1/2" NPT           | Nitrogen          | GAS        | 8                         | 12.5                              | 60                         | 85                      | 0-16                                                                                                                                                                                                                                 | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 47       | PG-2221  | BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)                | closed drain drum                            | V-2202                   | AN07         | #6000           | 1/2" NPT           | HYDROCARBON/WATER | LIQUID     | 0.5                       | FV#5.0                            | AMB                        | 85                      | 0-1                                                                                                                                                                                                                                  | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Added                                                                                                    | 48       | PG-2232A | BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)                | closed drain drum                            | CDH-112-0033-AN07-2"-PT  | AN07         | #6000           | 1/2" NPT           | HYDROCARBON       | LIQUID     | 7                         | 18.2                              | AMB                        | 85                      | 0-16                                                                                                                                                                                                                                 | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Added                                                                                                    | 49       | PG-2232B | BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)                | closed drain drum                            | CDH-112-0032-AN07-2"-PT  | AN07         | #6000           | 1/2" NPT           | HYDROCARBON       | LIQUID     | 7                         | 18.2                              | AMB                        | 85                      | 0-16                                                                                                                                                                                                                                 | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Added                                                                                                    | 50       | PG-2222A | BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)                | closed drain drum                            | OWA-112-0003-AN01-2"-PT  | AN01         | #3000           | 1/2" NPT           | HYDROCARBON/WATER | LIQUID     | 2                         | 18.2                              | AMB                        | 85                      | 0-4                                                                                                                                                                                                                                  | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |  |  |     |  |
| D02-Added                                                                                                    | 51       | PG-2222B | BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)                | closed drain drum                            | OWA-112-0004-AN01-2"-PT  | AN01         | #3000           | 1/2" NPT           | HYDROCARBON/WATER | LIQUID     | 2                         | 18.2                              | AMB                        | 85                      | 0-4                                                                                                                                                                                                                                  | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 52       | PG-2251  | BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)                | LP flare K.O.drum                            | V-2201                   | AN07         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS        | 0.5                       | FV#5.0                            | 32                         | 85                      | 0-1                                                                                                                                                                                                                                  | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 53       | PG-2251A | BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)                | LP flare K.O.drum pump                       | CDH-112-0038-AN07-2"-PT  | AN07         | #6000           | 1/2" NPT           | HYDROCARBON       | LIQUID     | 1.6                       | 18.2                              | AMB                        | 85                      | 0-4                                                                                                                                                                                                                                  | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 54       | PG-2251B | BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)                | LP flare K.O.drum pump                       | CDH-112-0037-AN07-2"-PT  | AN07         | #6000           | 1/2" NPT           | HYDROCARBON       | LIQUID     | 1.6                       | 18.2                              | AMB                        | 85                      | 0-4                                                                                                                                                                                                                                  | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 55       | PG-2272  | BK-GCS-PEDCO-120-PR-PI-0022                         | FUEL GAS                                     | FLG-111-0004-AN07-2"-PT  | AN07         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS        | 5.1                       | 18.2                              | 19-37                      | 85                      | 0-10                                                                                                                                                                                                                                 | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 56       | PG-2273  | BK-GCS-PEDCO-120-PR-PI-0022                         | FUEL GAS                                     | V-2205                   | AN07         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS        | 4.9                       | FV#9                              | 19-37                      | 85                      | 0-10                                                                                                                                                                                                                                 | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | Yes  | VTA   |        |  |  |     |  |
| D02-Modified                                                                                                 | 57       | PG-2271  | BK-GCS-PEDCO-120-PR-PI-0022                         | FUEL GAS                                     | FLG-112-0010-AN07-2"-PT  | AN07         | #6000           | 1/2" NPT           | HYDROCARBON       | GAS        | 4.9                       | 18.2                              | 33.6                       | 85                      | 0-10                                                                                                                                                                                                                                 | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | Yes  | VTA   |        |  |  |     |  |



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تکهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR PRESSURE &amp; DIFF. PRESSURE GAUGE

ماره پیمان:

0292

### بسته کاری

در کنند.

تسهيلات

روشنه

عم مدرک

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شماره صفحه: 8 از 10

### PRESSURE GAUGE

D02

| Rev.         | Item No. | Tag No.  | P&ID's No.                           | Service.         | LINE/<br>EQUIPMENT        | Piping Class | Manifold Rating | Process Connection | Fluid       | Phase      | Operating Pressure (barg) | Design Pressure (barg) | Operating Temperature (°C) | Design Temperature (°C) | Instrument Range (barg) | Liquid Filled | Press. Element Type | Press. Element Material | Movement Damper (Snubber) | Over Range Protection | Siphon | Diaphragm Seal | Nace | Model | Remark |
|--------------|----------|----------|--------------------------------------|------------------|---------------------------|--------------|-----------------|--------------------|-------------|------------|---------------------------|------------------------|----------------------------|-------------------------|-------------------------|---------------|---------------------|-------------------------|---------------------------|-----------------------|--------|----------------|------|-------|--------|
| D02-Modified | 58       | PG-2274  | BK-GCS-PEDCO-120-PR-PI-0022          | FUEL GAS         | FL-112-0040-AN07-2"-PT    | AN07         | #6000           | 1/2" NPT           | HYDROCARBON | GAS        | 0.5                       | 18.2                   | 33.6                       | 85                      | 0-1                     | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | Yes  | VTA   |        |
| D02-Modified | 59       | PG-2282  | BK-GCS-PEDCO-120-PR-PI-0023          | OIL              | V-2206                    | AN01         | #3000           | 1/2" NPT           | HYDROCARBON | LIQUID/OIL | 0.95                      | 18.2                   | 5-50                       | 85                      | 0-2.5                   | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |
| D02-Modified | 60       | PG-2283  | BK-GCS-PEDCO-120-PR-PI-0023          | OIL              | V-2206                    | AN01         | #3000           | 1/2" NPT           | HYDROCARBON | LIQUID/OIL | 0.95                      | 18.2                   | 5-50                       | 85                      | 0-2.5                   | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |
| D02-Modified | 61       | PG-2291  | BK-GCS-PEDCO-120-PR-PI-0024          | Potable Water    | PTW-112-0003-AZ00-2"-NP   | AZ00         | #3000           | 1/2" NPT           | Water       | Liquid     | 1.95                      | 18.2                   | AMB                        | 85                      | 0-4                     | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |
| D02-Modified | 62       | PG-2292  | BK-GCS-PEDCO-120-PR-PI-0024          | Potable Water    | PTW-112-0001-AZ00-2"-NP   | AZ00         | #3000           | 1/2" NPT           | Water       | Liquid     | 0.15                      | 18.2                   | AMB                        | 85                      | 0-250 mbar VTA          | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |
| D02-Modified | 63       | PG-2293  | BK-GCS-PEDCO-120-PR-PI-0025          | RICH GLYCOL      | V-2107                    | AN04         | #3000           | 1/2" NPT           | RICH GLYCOL | Liquid     | 2.1                       | 18.2                   | AMB                        | 85                      | 0-4                     | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |
| D02-Modified | 64       | PG-2294  | BK-GCS-PEDCO-120-PR-PI-0025          | Right Glycol     | TEG-111-001-AN04-2"-PT    | AN04         | #3000           | 1/2" NPT           | RICH GLYCOL | Liquid     | 0.01                      | FW/3.5                 | AMB                        | 85                      | 0-25 mbar VTA           | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |
| D02-Modified | 65       | PG-2295  | BK-GCS-PEDCO-120-PR-PI-0025          | GLYCOL SUMP DRUM | NIT-111-0009-AN04-1"-PT   | AN04         | #3000           | 1/2" NPT           | NITROGEN    | GAS        | 0.5                       | 18.2                   | AMB                        | 85                      | 0-1                     | Yes           | Diaphragm           | SS 316L                 | No                        | Yes                   | No     | No             | No   | VTA   |        |
| D02-Modified | 66       | PG-2301  | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 8) | Fire Water       | FWA-113-0001-AN04-3"-PT   | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 11.3                      | 17                     | AMB                        | 85                      | 0-25                    | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
| D02-Modified | 67       | PG-2305  | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8) | Fire Water       | FWA-113-0025-AN04-12"-PT  | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 11.3                      | 17                     | AMB                        | 85                      | 0-25                    | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
| D02-Modified | 68       | PG-2303A | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8) | Fire Water       | FWA-113-0027-AN04-2"-PT   | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 1                         | 1.5                    | AMB                        | 85                      | 0-2.5                   | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
| D02-Modified | 69       | PG-2304A | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8) | Fire Water       | FWA-113-0029-AN04-2"-PT   | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 11.3                      | 17                     | AMB                        | 85                      | 0-25                    | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
| D02-Modified | 70       | PG-2303B | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8) | Fire Water       | FWA-113-0026-AN04-2"-PT   | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 1                         | 1.5                    | AMB                        | 85                      | 0-2.5                   | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
| D02-Modified | 71       | PG-2304B | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8) | Fire Water       | FWA-113-0028-AN04-2"-PT   | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 11.3                      | 17                     | AMB                        | 85                      | 0-25                    | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
| D02-Added    | 72       | PG-2304  | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8) | Fire Water       | FWA-113-0018-AN04-12"-PT  | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 11                        | 16.5                   | AMB                        | 85                      | 0-25                    | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
| D02-Modified | 73       | PG-2301A | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8) | Fire Water       | FWA-113-0006-AN04-12"-PT  | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 1                         | 1.5                    | AMB                        | 85                      | 0-2.5                   | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
| D02-Modified | 74       | PG-2302A | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8) | Fire Water       | FWA-113-00022-AN04-10"-PT | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 11.3                      | 17                     | AMB                        | 85                      | 0-25                    | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
| D02-Modified | 75       | PG-2301B | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8) | Fire Water       | FWA-113-0006-AN04-12"-PT  | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 1                         | 1.5                    | AMB                        | 85                      | 0-2.5                   | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
| D02-Modified | 76       | PG-2302B | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 8) | Fire Water       | FWA-113-0021-AN04-10"-PT  | AN04         | #3000           | 1/2" NPT           | Water       | Liquid     | 11.3                      | 17                     | AMB                        | 85                      | 0-25                    | Yes           | Bourdon             | SS 316L                 | No                        | No                    | No     | No             | No   | VTA   |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              |          |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|              | </       |          |                                      |                  |                           |              |                 |                    |             |            |                           |                        |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |



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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 PRESSURE &amp; DIFF. PRESSURE GAUGE

شماره پیمان:

053 - 073 - 9184

پروژه

بسته کاری

صادر کننده

تسهیلات

رشته

نوع مدرک

سریال

نسخه

شماره صفحه: 9 از 10

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## Differential Pressure Gauge

|                    |    |                                  |                                         |                                           |
|--------------------|----|----------------------------------|-----------------------------------------|-------------------------------------------|
| GENERAL            | 1  | Item                             | See Page 10                             |                                           |
|                    | 2  | Tag Number                       | See Page 10                             |                                           |
|                    | 3  | Service                          | See Page 10                             |                                           |
|                    | 4  | Line No.                         | See Page 10                             |                                           |
|                    | 5  | Equipment No.                    | P&ID No.                                | See Page 10                               |
|                    | 6  | Area Classification              | Zone 2, IIB T4                          |                                           |
| PROCESS CONDITIONS | 7  | Fluid                            | Fluid State                             | See Page 10                               |
|                    | 8  | Max Press. Oper.                 | Design Pressure                         | See Page 10 barg                          |
|                    | 9  | Oper. Temp.                      | Design Temperature                      | See Page 10 °C                            |
| MANIFOLD           | 10 | Manifold Type                    | Manifold Material                       | 5 Way Manifold 316 S.S.                   |
|                    | 11 | Connection                       | Manifold Rating                         | 1/2" NPTF (Note 6) (Note 11)              |
| CASE               | 12 | Case Type                        | Case Style                              | Silicon Oil Filled weather proof (IP 65)  |
|                    | 13 | Case Material                    | Case Size                               | 304 S.S. 150 mm                           |
|                    | 14 | Case Pressure Relief             | Yes                                     |                                           |
|                    | 15 | Conn. Location                   | Proc. Connection                        | bottom See Page 10                        |
|                    | 16 | Ring Style                       | Ring Material                           | VTA 304 S.S.                              |
|                    | 17 | Mounting Type                    | Blow-out protection                     | Direct Back                               |
|                    | 18 | Socket Material                  | 316 S.S.                                |                                           |
|                    | 19 | Window Material                  | Shatterproof glass                      |                                           |
| ELEMENT            | 20 | Seal / O-Ring Material           | VTA                                     |                                           |
|                    | 21 | Liquid Fill Material             | VTA                                     |                                           |
|                    | 22 | Element Type                     | Element Material                        | Diaphragm 316 S.S.                        |
|                    | 23 | Movement Style                   | Movement Material                       | VTA 316 S.S.                              |
|                    | 24 | Over Range Protection            | 1.3 times of maximum operating pressure |                                           |
|                    | 25 | Accuracy                         | ±0.5% of F.S.                           |                                           |
|                    | 26 | Internal Stop                    | Yes                                     |                                           |
| DIAL               | 27 | Measuring Range                  | See Page 10                             | barg                                      |
|                    | 28 | Dial Scale Type                  | Dial Material                           | Dual indicating scales (bar/psi) aluminum |
|                    | 29 | Dial Color                       | black marks on white background         |                                           |
|                    | 30 | Zero Adjustment                  | Adjustable pointer                      |                                           |
| ACCESSORY          | 31 | Syphon                           | Material                                | See Page 10 316 S.S.(if necessary)        |
|                    | 32 | Pulsation Damper                 | Material                                | See Page 10 316 S.S.(if necessary)        |
|                    | 33 | Over Range Protection            | Material                                | See Page 10 316 S.S.(if necessary)        |
|                    | 34 | End Connection                   | 1/2" NPT (Note 6)                       |                                           |
| DIAPHRAGM SEAL     | 35 | Seal Type                        | N/A                                     |                                           |
|                    | 36 | Instrument Conn.                 | Process Conn.                           | N/A N/A                                   |
|                    | 37 | Diaphragm Extension Length       | N/A                                     |                                           |
|                    | 38 | Diaphragm Material               | N/A                                     |                                           |
|                    | 39 | Capillary Material               | Capillary Length                        | N/A N/A                                   |
|                    | 40 | Housing Mtrl.                    | Lower                                   | N/A N/A                                   |
|                    | 41 | Bolting Material                 | N/A                                     |                                           |
|                    | 42 | Gasket / O-Ring Material         | N/A                                     |                                           |
|                    | 43 | Fill Fluid Material              | N/A                                     |                                           |
| SPECIAL            | 44 | NACE MR0175/ISO 15156 Compliance | See Page 10                             |                                           |
| PURCHASE           | 45 | Manufacturer                     | (Note 8)                                |                                           |
|                    | 46 | Model                            | (Note 8)                                |                                           |

NOTES:

VTA : Vendor to Advise

N/A: Not Applicable

- (1) NACE-MR-0175/ISO 15156 requirements shall be covered where Piping/Pipeline Material Specification recommended.
- (2) Window shall be heavy plate glass, breakage resistance and shatter proof.
- (3) Pressure gauges shall be double scale type (Bar and Psi).
- (4) All gauges shall be equipped with screw driver slot type adjustment for calibration purposes.
- (5) Oil-filled system or Pulsation dampeners shall be supplied for all pressure instruments and gauges in vibrating or pulsating services.
- (6) 1/2"NPT for Instrument/Process connection and 1/4" NPT for Drain Connection-All Manifolds, Pulsation Dampners and Siphons shall be suitable for connecting to gauges (1/2" NPT). And the material shall be 316 SS.
- (7) Over range protection shall be 1.3 times the maximum range.
- (8) Will be finalized later at the purchasing time.
- (9) Cases for pressure gauges shall be solid front stainless steel.
- (10) Weep hole shall be provided on the case bottom of all gauges.
- (11) For manifold rating, Bolt & Gasket material refer to "Piping Material Specification Doc No.: BK-GCS-PEDCO-120-PI-SP-0001"
- (12) Gauge pointer shall be adjustable (micro meter adjustment) without removal from pinion shaft.

| <div></div> <div>NISOC</div> |          | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض<br><br>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک |                                      |                    |                         |              |                   |                    |             |                      |                                                         | <div></div> |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|--------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------|-------------------------|--------------|-------------------|--------------------|-------------|----------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|-------------------------|---------------|---------------------|-------------------------|---------------------------|-----------------------|--------|----------------|------|-------|--------|
|                                                                                                              |          | DATA SHEETS FOR PRESSURE & DIFF. PRESSURE GAUGE                                                          |                                      |                    |                         |              |                   |                    |             |                      |                                                         |                                                                                                                                                                                  |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
| شماره پیمان:<br><br>053 - 073 – 9184                                                                         |          | پروژه                                                                                                    | بسته کاری                            | صادر کننده         | تجهیزات                 | رشته         | نوع مدرک          | سریال              | نسخه        | شماره صفحه: 10 از 10 |                                                         |                                                                                                                                                                                  |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
|                                                                                                              |          | BK                                                                                                       | GCS                                  | PEDCO              | 120                     | IN           | DT                | 0001               | D02         |                      |                                                         |                                                                                                                                                                                  |                            |                         |                         |               |                     |                         |                           |                       |        |                |      |       |        |
| DIFFERENTIAL PRESSURE GAUGE                                                                                  |          |                                                                                                          |                                      |                    |                         |              |                   |                    |             |                      |                                                         |                                                                                                                                                                                  |                            |                         |                         |               |                     |                         |                           |                       |        |                |      | D02   |        |
| Rev.                                                                                                         | Item No. | Tag No.                                                                                                  | P&IDs No.                            | Service.           | LINE/<br>EQUIPMENT      | Piping Class | Connection Rating | Process Connection | Fluid       | Phase                | Operating Pressure (barg) / Differential Pressure (bar) | Design Pressure (barg)                                                                                                                                                           | Operating Temperature (°C) | Design Temperature (°C) | Instrument Range (barg) | Liquid Filled | Press. Element Type | Press. Element Material | Movement Damper (Snubber) | Over Range Protection | Siphon | Diaphragm Seal | Nace | Model | Remark |
| D02-Modified                                                                                                 | 1        | PDG-2114A                                                                                                | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2) | BEFORE SLUG PUMP A | CDH-112-0010-AS00-4"-PT | AS00         | -                 | 1/2" NPT           | WATER       | LIQUID               | 5.5 / 1.5                                               | 13.9                                                                                                                                                                             | 23.22/8.82                 | 85                      | 0-2.5                   | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | YES  | VTA   |        |
| D02-Modified                                                                                                 | 2        | PDG-2114B                                                                                                | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2) | BEFORE SLUG PUMP B | CDH-112-0011-AS00-4"-PT | AS00         | -                 | 1/2" NPT           | WATER       | LIQUID               | 5.5 / 1.5                                               | 13.9                                                                                                                                                                             | 23.22/8.82                 | 85                      | 0-2.5                   | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | YES  | VTA   |        |
| D02-Modified                                                                                                 | 3        | PDG-2271                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0022          | FUEL GAS K.O. DRUM | V-2205                  | -            | -                 | 1/2" NPT           | HYDROCARBON | GAS                  | 4.9 / 1.5                                               | FW/9                                                                                                                                                                             | 33.6                       | 85                      | 0-2.5                   | Yes           | Bourdon             | SS 316L                 | No                        | Yes                   | No     | No             | YES  | VTA   |        |