

| | FABRICATION MATERIALS | | | |
|----------|---|---------------|-----------|-----------|
| PT NO | COMPONENT DESCRIPTION | N.S. (INS) | ITEM CODE | QTY —— |
| 1 | Pipe ASME B36.10M BE S2 -46C S-STD ASTM A 671 GR. CC 65 CLASS 22 LOW TEMP. | 36 | 36340 | 91.9M |
| 2 | E.F.W. Sockolet MSS SP-97 BWxSW 3000# ASTM A | 36 x 3/4 | 15250 | 1 |
| 3 | 350 Gr. LF2 Class 1 FRGD. Elbow 90 D LR ASME B16.9 BW S-STD ASTM A | 36 | 1265 | 3 |
| 4 | 420 GR. WPL6 Wrought W Elbow 45 D LR ASME B16.9 BW S-STD ASTM A | 36 | 30568 | 2 |
| 5 | 420 GR. WPL6 Wrought W Flange Weldneck w/jackscrew ASME B16.47 A 150 LB RF (125-250 AARH) S-STD ASTM A | 36 | 24756 | 1 |
| 6 | 350 Gr. LF2 Class 1 FRGD. Flange Weldneck ASME B16.47 A 150 LB RF (125–250 AARH) S-STD ASTM A 350 Gr. LF2 Class 1 FRGD. | 36 | 23503 | 2 |
| | ERECTION MATERIALS | | | |
| PT NO | COMPONENT DESCRIPTION | N.S. (INS) | ITEM CODE | QTY |
| 7 | Pipe ASME B36.10M PE S-80 ASTM A 333 GR. | 3/4 | 27112 | O.1M |
| 8 | 6 SMLS Blind & Spacer RP-14-999-1300-099 150 FF (125-250) S5 -46C (A 516 GR. 65 + S5 -46C is also acceptable. ASTM A 516 GR. | 36 | 38745 | 1 |
| 9 | 60 From Plate Flange Socketweld ASME B16.5 150 LB RF (125-250 AARH) S-80 ASTM A 350 Gr. LF2 | 3/4 | 22245 | 1 |
| 10 | Class 1 FRGD. Gasket Spiral Wound – 4.5 mm Thk. ASME B16.20/ASME B16.47A 150 LB Outer LTCS ring 3.2mm, inner ring SS316 AISI 316 | 36 | 25357 | 3 |
| 11 | SPIRAL WOUND/GRAPHITE Gasket Spiral Wound - 4.5 mm Thk. ASME B16.20 150 LB Outer LTCS ring 3.2mm,inner ring SS316 AISI 316 SPIRAL | 3/4 | 25120 | 1 |
| 12 | WOUND/GRAPHITE 675 Stud bolt w/2 heavy hex. nuts ASME B18.2.2 /ASME B1.1 ASTM A 193 | 1.1/2 | 46390 | 32 |
| 13 | GR.B7M/A194 GR.2HM 315 Stud bolt w/2 heavy hex. nuts ASME B18.2.2 /ASME B1.1 ASTM A 193 | 1.1/2 | 35299 | 32 |
| 14 | GR.B7M/A194 GR.2HM 65 Stud bolt w/2 heavy hex. nuts ASME B18.2.2 /ASME B1.1 ASTM A 193 GR.B7M/A194 GR.2HM | 1/2 | 35149 | 4 |
| 15 | Block & Bleed BS 5351/Manuf. Std. FLGDxFTHD 150 RF (125-250) FB, Vent: Needle 1/4", FNPT, Pluged End, GA-E-SBV-02-LT ASTM A 350 Gr. LF2 Class 1 FRGD. | 3/4 | 47700 | 1 |
| | INSTRUMENTS | | | |
| 16 | PRESSURE INDICATOR 147 PG-0211 | 3/4 | | 1 |
| | | | | |

PHASE 14 CONSORTIUM APPROVED FOR CONSTRUCTION

ALL CONTROL VALVES, SAFETY VALVES, STRAINERS, SPECIAL PARTS, INSTRUMENT ITEMS SHOULD BE CHECKED WITH LAST REVISION OF VENDOR DRAWING (ACTUAL DIMENSION) BEFO

3- FOR 1 1/2" AND SMALLER, SUPPORTS TO BE SELECTED BY CONSTRUCTION

| | CONTRACTOR EXCEPT AS NOTED. | |
|----|-------------------------------------|------------------------|
| 4- | BEFORE PRE-FABRICATION CHECK ACTUAL | SIZE OF SPECIAL ITEMS. |
| | | |

| FOR | RE ANY S | SPOOL FABRI | CATION AC | TIVIT | IES. | | | | | | | | | |
|-------------------------------------|-----------|---------------|-------------|------------|--------------------------|-----------|---------------------------|----------|----------------------|--------|-------|--------|-------|--------|
| | COI | NDITION | DE: | SIGN | | OPERATING | | | | | | | | |
| Pf | RESS. (ba | rg) | 3.50 | | | 0.06 | | | | | | | | |
| TE | EMP.(°C) | | 150 | | | _ | | | | | | | | |
| TEST FLUID: P PRESS. TEST(barg) | | (barg): | 3.85 | | | | | | | | | | | |
| INSULATION TYPE: INSUL | | INSULA | ation th | K.: - | | | | | F.Y | S.M | H.F. | | | |
| PAINT CODE: 2 | | HEAT | TRANSFE | R CEMENT:- | D2 | 04.10.14 | APPROVED FOR CONSTRUCTION | IPMI | F.Y. | S.M | M.F | P.T.B. | | |
| STRESS ANALYSIS: 3 DENSITY(kg/m³):2 | | ³):2.4 | D1 | 14.12.11 | APPROVE FOR CONSTRUCTION | IPMI | Z.Z | A.D | M.F | P.T.B. | | | | |
| | | STEAM TRACING | QTY. TRACIN | IG SIZE | NDT:10 | 0%RT | DO | 20.10.11 | ISSUED FOR APPROVAL | IPMI | Z.Z | A.D | M.F | P.T.B. |
| T | RACING | _ | _ | | PWHT: N | | REV. | . DATE | DESCRIPTION | ORIG. | PREP. | CHKD. | APPD. | CONT. |
| | | ELEC, TRACING | YES | NO X | PHASE: | V | REF. | P&ID DWG | No.:14-147-0030-0115 | 1 | ı | 1 | | |

| | | \$ | |
|------------|------|-----|--|
| ORIGINATOR | IDRO | [© | |

LINE No.:

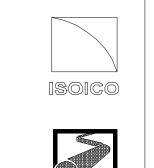
DOCUMENT No.:

3.36"-FL.147.10017-B21-N

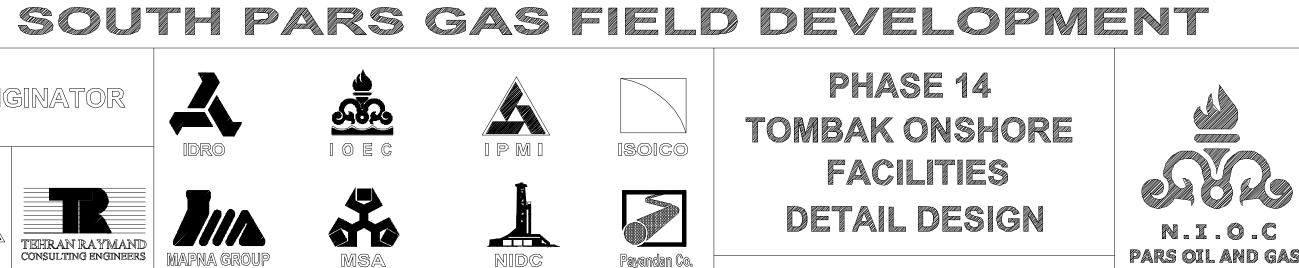
DWG-14-147-1330-2001-I







| | PHASE 14 |
|-------|-------------|
| | TOMBAK ONSH |
| Brown | |
| | DETAIL DESI |



Company

| PROJECT No. | POGC-653-89-35 | |
|-------------|----------------|--|

| | | LINE CLASS | • | UNIT | No.: | |
|------------------|---|------------|-------|------|------|-----------|
| | | B21 | | 147 | 7 | |
| ISO DRAWING No.: | | ORG. ID.: | REV.; | SHT. | No.: | DOC. CLAS |
| FL.147.10017 | , | I | D2 | 1 | /2 | 3 |