

## BILL OF MATERIALS (THIS SHEET SET)

| NO | ITEM    | QTY  | UNIT | NPS | DESCRIPTION                                                                                                |
|----|---------|------|------|-----|------------------------------------------------------------------------------------------------------------|
| 1  | PIPE    | 2.0  | ft   | 12  | Pipe 12 in XS (0.500 in), API 5L X52 PSL2, BE, 3-coat paint                                                |
| 2  | PIPE    | 93.6 | ft   | 12  | Pipe 12 in XS (0.500 in), API 5L X52 PSL2, BE, FBE 14-16 mils + ARO                                        |
| 3  | FITTING | 2    | ea   | 12  | Elbow 90 3R (pig path), B16.9, MSS SP-75 WPBY-52, STD (0.500 in)                                           |
| 4  | FLANGE  | 1    | ea   | 12  | WN flange, 12 in Class 600 RF, A105N (CVN at -20 F), bore to match 0.500 in wall                           |
| 5  | GASKET  | 1    | ea   | 12  | Spiral-wound gasket, 12 in Class 600, 316 / flexible graphite, CS outer ring, 316 inner ring (ASME B16.20) |
| 6  | BOLT    | 1    | ea   | 12  | Stud bolt set, 12 in Class 600 (20 studs) 1.25 in dia x 8.75 in, A193 B7 with 2 A194 2H nuts, PTFE coated  |

PIPE AND COMPONENT WEIGHT EXCLUDING VALVES (APPROX.): 5,747 lb. Pipe quantities are net centerline take-off; the MTO (mto/mechanical\_mto.csv) adds a 5 % allowance.

### PIPE CUT LIST (NET, EXCL. ROOT GAP)

| PIECE   |  | NPS | CUT LENGTH | WELDS | LOC |
|---------|--|-----|------------|-------|-----|
| 1042-A1 |  | 12  | 2'-0"      | 1 / 2 | AG  |
| 1042-A2 |  | 12  | 1'-8 5/8"  | 3 / 4 | BUR |
| 1042-A3 |  | 12  | 30'-7 3/4" | 5 / 6 | BUR |
| 1042-A4 |  | 12  | 30'-7 3/4" | 6 / 7 | BUR |
| 1042-A5 |  | 12  | 30'-7 3/4" | 7 / 8 | BUR |

**WELD LIST (NDE PER [REDACTED] SPC-SPC-008)**

| W | LINE | NPS | TYPE | S/F   | NDE      | LOCATION    |
|---|------|-----|------|-------|----------|-------------|
| 1 | 1042 | 12  | BW   | FIELD | RT 100 % | joint       |
| 2 | 1042 | 12  | BW   | FIELD | RT 100 % | pipe/3R ell |
| 3 | 1042 | 12  | BW   | FIELD | RT 100 % | 3R ell/pipe |
| 4 | 1042 | 12  | BW   | FIELD | RT 100 % | pipe/3R ell |
| 5 | 1042 | 12  | BW   | FIELD | RT 100 % | 3R ell/pipe |
| 6 | 1042 | 12  | BW   | FIELD | RT 100 % | pipe/pipe   |
| 7 | 1042 | 12  | BW   | FIELD | RT 100 % | pipe/pipe   |
| 8 | 1042 | 12  | BW   | FIELD | RT 100 % | pipe/WN     |

**WELD SUMMARY: 8 welds (0 shop / 8 field). Weld numbers match sheet 1. Instrument and small-bore branch welds (olets, SW) are additional, counted in the MTO.**

## NOTES / REFERENCES

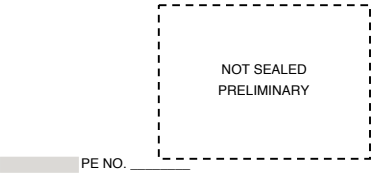
1. QUANTITIES TAKEN FROM THE SAME PIPING MODEL AS THE GA PIP-DWG-001 AND THE MTO.  
2. VALVE DATA PER MEC-LST-003 AND MEC-DS-006 / DS-007.  
3. SUPPORT ITEMS NOT INCLUDED; SEE MEC-CAL-005.  
REF: PIP-SPC-001  
REF: mto/mechanical\_mto.csv

## REVISIONS

| REV | DATE       | DESCRIPTION             | BY | CHK | APP |
|-----|------------|-------------------------|----|-----|-----|
| A   | 2026-09-29 | ISSUED FOR REVIEW (IFR) |    |     |     |

**PRELIMINARY - ISSUED FOR REVIEW - NOT FOR CONSTRUCTION**

## ENGINEER OF RECORD SEAL



## PROJECT

120 MMSCFD RECEIPT INTO \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
COUNTY, \_\_\_\_\_

DISCIPLINE: PIPING  
SCALE: NTS

### ISOMETRIC LINE 1042

## BILL OF MATERIALS, CUT LIST, WELD LIST

DRAWN: \_\_\_\_\_ CHECKED: \_\_\_\_\_ APPROVED: \_\_\_\_\_

DWG NO.

**PIP-DWG-015**

SHEET 2 OF 2 REV A