



| BILL OF MATERIALS |       |          |   |
|-------------------|-------|----------|---|
| ID                | QTY   | ND       | DESCRIPTION   |
| 1                 | 0.86M | 1"       | PIPE SEAMLESS, MATERIAL: API 5L GR B, SCH 80/XS, PLAIN END,ASME B36.10.                 |
| 2                 | 1     | 1"       | ELBOW 90.0°, 3000LB, ASTM A105, SW, ASME B36.10   |
| 3                 | 1     | 1"       | FLANGE SW, 300 LB, RF, ASME B16.5, ASTM A182 GR. 304L                                   |
| 4                 | 1     | 1"       | FLANGE SW, 300 LB, RF, ASME B16.5, ASTM A105  |
| 5                 | 4     | 7/8"x127 | STD BOLT 2HY HX NUT ASTM A320 GR.B8 CL.2/A194 GR.8, 1500LB, ASME B18.2.1 & ASME B18.2.2 |
| 6                 | 1     | 1"       | DIELECTRIC JOINT, 1500LB, RF PHENOLIC, ASME B16.21                                      |
| 7                 | 0.15M | 1"       | PIPE SEAMLESS, MATERIAL: ASTM A312 GR.304L, SCH 160, PLAIN END,ASME B36.19.             |

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| PROJECT NAME:<br>Interconexión y optimización de la línea de alta presión en las ESR's -EE-SS. (1ra fase) |                  |                    |           |
| TITLE:<br>Interconexion Rack de Botellones y ESR63  |                  |                    |           |
| DRAWING NUMBER:<br>P2275538-USIME1-ESR63-LT-0001  |                  |                    |           |
| LINE NO:<br>1"-NG-63810-CS2500G   | AREC:            | UNIT:              | TYPE:     |
| JOB NUMBER:   | SCALE:<br>N.T.S. | SHEET:<br>3D OF 4D | REV:<br>0 |