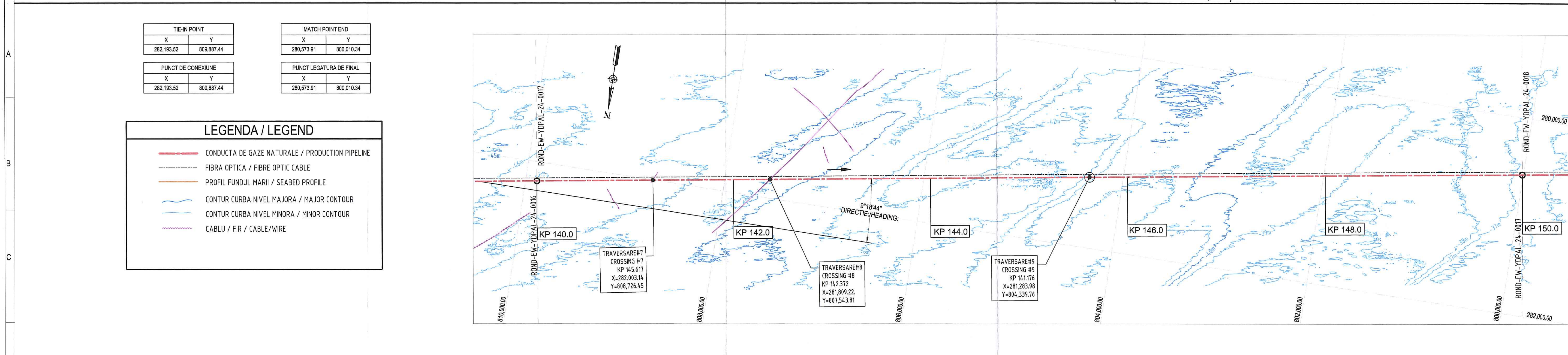
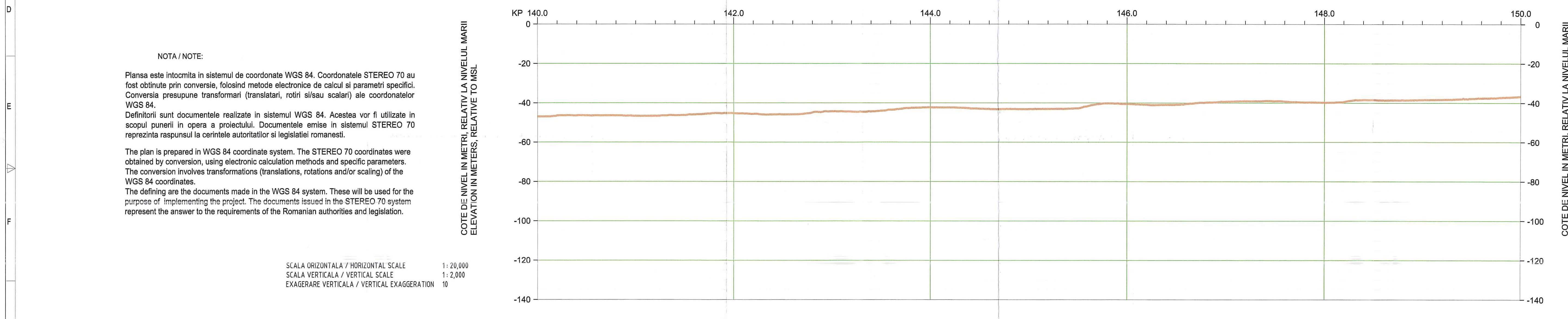


PROIECTIE IN PLAN / PLAN VIEW (Scala / Scale 1:20,000)



PROFIL LONGITUDINAL CONDUCTA / LONGITUDINAL PROFILE ALONG PIPELINE



DATE TEHNICE / ENGINEERING DATA

| ELEMENTE TRASEU                 | ORIENTARE (°N) / RAZA CURBURI (m)  | ROUTE ITEMS           | STRAIGHT HEADING (°N) / BEND RADIUS (m)  |
|---------------------------------|--|-----------------------|--|
| DATE CONDUCTA                   | TRAVERSARE CONDUCTA / CABLU<br>TIP SOL LA SUPRAFATA FUNDULUI MARIILOR  | PIPELINE DATA         | CABLE / PIPELINE CROSSING<br>SURFACE SEABED SOIL   |
|                                 | TIP OTEL / DIAM. EXT. (mm) / GROSIME PERETE (mm)<br>GROS. PERETE DISP. ANTIDEFORMARE (mm) / INTERVAL (m)<br>STRAT ANTI-COROZIV / GROS. (mm) / DENSITATE (kg/m³)<br>STRAT INT. PROT. / GROSIME (µm) / DENSITATE (kg/m³)<br>STRAT BETON: GROSIME (mm) / DENSITATE (kg/m³)<br>TIP SUDURA / TIP UMPLUTURA / DENSITATE (kg/m³)<br>TIP ANOD / MASA (kg) / INTERVAL MONTAJ (segmente) |                       | STEEL GRADE / O.D. (mm) / WALL THICKNESS (mm)<br>BUCKLE ARRESTOR W.T. (mm) / SPACING (m)<br>ANTI-CORR. COAT. / THICK (mm) / DENSITY (kg/m³)<br>INTERNAL COAT. / THICK (µm) / DENSITY (kg/m³)<br>CONCRETE COATING: THICK (mm) / DENSITY (kg/m³)<br>FIELD JOINT TYPE / INFILL / DENSITY (kg/m³)<br>ANODE BRACELETS TYPE / MASS (kg) / SPACING (joints) |
|                                 | GREUTATE CONDUCTA (kN/m)<br>IN APA<br>GOALA (kN/m) / SG<br>IN FUNCTIUNE (kN/m) / SG  |                       | IN AIR (DRY) (kN/m)<br>EMPTY (kN/m) / SG<br>SUBMERGED (FLOODED) (kN/m) / SG<br>OPERATION (kN/m) / SG   |
| LUCRARI PRE-INSTALARE CONDUCTA  | ADANCIME DRAGARE (m) / LATIME (m)<br>SUPORTI / SALTELE BETON   | PRE-LAY INT. WORKS    | DREDGING DEPTH (m) / WIDTH (m)<br>SLEEPERS / MATTRESSES  |
| LUCRARI POST-INSTALARE CONDUCTA | ADANCIME SANT (m)<br>TIP UMPLUTURA / STRAT ACOPERITOR (m)<br>STRAT PIETRIS   | POST-LAY INT. WORKS   | TRENCHING DEPTH (m)<br>BACKFILLING TYPE / COVER TOP (m)<br>GRAVEL DUMPING  |
| LUNGIME TRONSON ADMISA          | INSTALARE (m)<br>HIDRO-TEST (m)<br>FUNCTIONARE (m)   | ALLOWABLE SPAN LENGTH | HYDROTEST (m)<br>OPERATION (m)   |
| CERINTE SPECIFICE               | TOLERANTA LA INSTALARE (m)<br>ALTELE   | SPECIFIC REQUIREM.    | LAY TOLERANCE (m)<br>OTHER   |

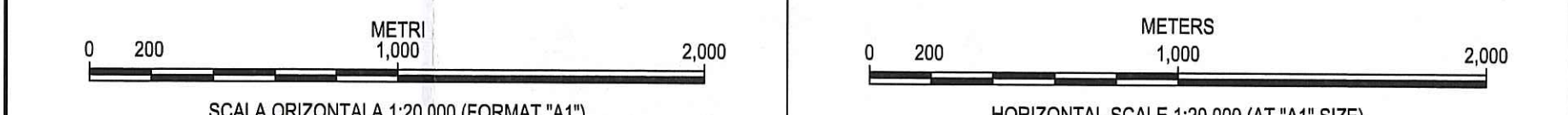
SE APLICA PREVEDERILE PRIVIND CONFIDENTIALITATEA DIN CONTRACTUL DE CONCESIUNE NEPTUN DEEP SI A CONTRACTULUI DE OPERATII COMUNE AFERENT SI SAU CONTRACTEILOR DE CONFIDENTIALITATE APLICABILE IN NUMELE EXXONMOBIL EXPLORATION AND PRODUCTION ROMANIA LIMITED

| NOTE   | NOTES  |
|--|--|
| 1. DACA NU SE PRECIZEAZA ALTFEL TOATE DIMENSIUNILE SUNT EXPRIMATE IN METRI.<br>2. TOATE COTELE DE NIVEL SUNT IN METRI, RELATIV LA NIVELUL MARIILOR.<br>3. DATELE BATIMETRICE PROVIN DIN BAZA DE DATE GEOTEHNICE SI GEOFIZICE GIS ACTUALIZATA IN 2014, DOCUMENT FUGRO J31135-R-001031 ACTUALIZAT PENTRU PROIECTUL NEPTUN DEEP.<br>4. DATELE DESPRE SOLUL DE PE FUNDUL MARIILOR PROVIN DIN RAPORTUL INTEGRAT NEPTUN DEEP, ROND-EW-GRPT-00-0015-001.<br>5. VEZI DOCUMENTUL CU NUMARUL ROND-EW-YDBM-20-0002.<br>6. DIRECTIILE SUNT INDICATE IN RAPORT CU NORDUL STEREO 70.<br>7. PENTRU DETALII PRIVIND MODUL DE CONECTARE LA LOCATIA PLATFORMEI SE VA CONSULTA PLANSA ROND-EW-YDPAL-22-0011 - ARANJAMENT CONDUCTA DE ADUCTIUNE SI CONDUCTA DE GAZE NATURALE LA PLATFORMA (SWP).<br>8. STERS<br>9. PUNCT TRAVERSARE CABLU CONFORM BAZEI DE DATE MARINE GLOBALE, CONTRACTORUL VA DETERMINA LOCATIA EXACTA.<br>10. POSIBILE TRAVERSARI PENTRU HDCC ROMANIA TURCIA, CONTRACTORUL VA VERIFICA CU PROPRIE TARUL CABLULUI DATA CONSTRUCTIEI.<br>11. TRAVERSARE CABLU CONFORM BAZA DE DATE GIS ASIGURATA DE FUGRO.<br>12. STERS<br>13. TRAVERSARE CABLU CONFORM PLANSA ROND-EW-YDPLX-24-0002 SOLUTIE TIPICA TRAVERSARE CABLU.<br>14. GROSIMEA ANOZILOR SI DISTANTA ADMISA DINTRE EI VOR FI RE-EVALUATE IN DETALIILE DE EXECUTIE, IN BAZA GROSIMII ACTUALE A STRATULUI DE BETON. | 1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.<br>2. ALL ELEVATIONS ARE IN METERS AND RELATIVE TO MSL.<br>3. BATHYMETRY DATA FROM 2014 GEOTECHNICAL AND GEOPHYSICAL GIS DATABASE UPDATE, FUGRO DOCUMENT J31135-R-001031 FOR THE NEPTUN DEEP DEVELOPMENT.<br>4. SEABED SOIL DATA FROM NEPTUN DEEP INTEGRATED REPORT ROND-EW-GRPT-00-0015-001, SEE DESIGN DOCUMENT NUMBER ROND-EW-YDBM-20-0002.<br>5. HEADINGS INDICATED ARE RELATIVE TO STEREO 70 NORTH.<br>6. FOR DETAILS OF TIE-INS AT PLATFORM LOCATION REFER TO DRAWING: ROND-EW-YDPAL-22-0011 - FLOWLINE AND PRODUCTION LINE PLATFORM (SWP) APPROACH ARRANGEMENT.<br>7. DELETED.<br>8. FOR ANODE DETAILS REFER TO DRAWING ROND-EW-YDCPD-24-0002 & DOCUMENT ROND-EW-YRSTY-24-0002.<br>9. SOIL CHARACTERIZATION BASED ON TECHNICAL NOTE 408009-00349-TN-003 (SEE ALSO NOTE 4).<br>10. INTERNAL FLOW COAT AS PER INTERNAL EPOXY COATING SPECIFICATION ROND-EW-YSPDS-20-0039.<br>11. CABLE CROSSING FROM GLOBAL MARINE DATABASE, CONTRACTOR TO DETERMINE EXACT LOCATION.<br>12. POTENTIAL CROSSING FOR FUTURE HDCC ROMANIA TURKEY, CONTRACTOR TO CHECK WITH THE CABLE OWNER FOR THE CONSTRUCTION DATE.<br>13. CABLE CROSSING FROM GIS DATABASE PROVIDED BY FUGRO.<br>14. DELETED.<br>15. CABLE CROSSING AS PER DRAWING ROND-EW-YDPLX-24-0002 TYPICAL CABLE CROSSING G.A.<br>16. NOTE THAT ALLOWABLE SPANS AND ANODE THICKNESSES ARE TO BE RE-ASSESSED IN DETAILED DESIGN BASED UPON ACTUAL CONCRETE COATING THICKNESSES. |

DOCUMENTE DE REFERINTA / REFERENCE DOCUMENTS

| NUMAR PLANSA          | DENUMIRE                                      | DRAWING NUMBER        | DESCRIPTION                                |
|-----------------------|---|-----------------------|--|
| ROND-EW-YDCPD-24-0002 | DETALII TIPICE ANOD CONDUCTA DE GAZE NATURALE | ROND-EW-YDCPD-24-0002 | PRODUCTION PIPELINE TYPICAL ANODE DETAILS  |
| ROND-EW-YDPLX-24-0002 | SOLUTIE TIPICA TRAVERSARE CABLU               | ROND-EW-YDPLX-24-0002 | TYPICAL CABLE CROSSING GENERAL ARRANGEMENT |

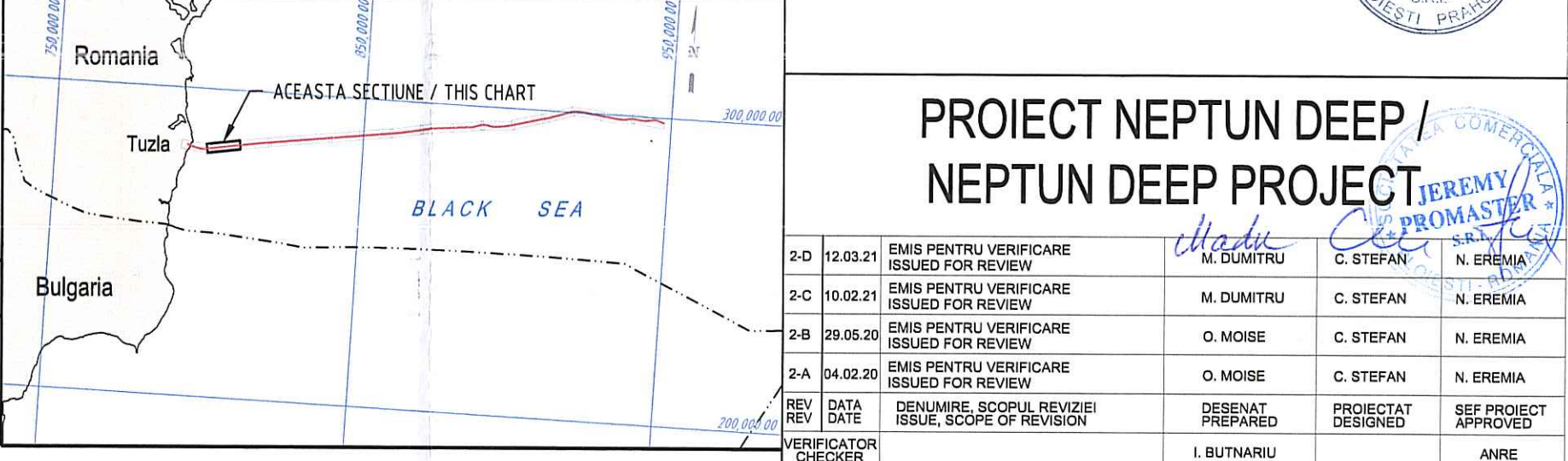
SCALA / SCALE BAR



PARAMETRII GEODEZIE SI PROIECTIE / GEODETIC & PROJECTION PARAMETERS

| DATE GEODEZICE          | STEREO 70              | GEODETIC DATUM           | STEREO 70            |
|-------------------------|------------------------|--------------------------|----------------------|
| PROIECTIE               | Dublu Stereografica    | PROJECTION               | Double Stereographic |
| Meridianul central (MC) | 25.0                   | Central meridian (CM)    | 25.0                 |
| Latitudine Origine      | 46.0                   | Latitude of Origin       | 46.0                 |
| Falsa origine estica    | 500,000.0              | False Easting at origin  | 500,000.0            |
| Falsa origine nordica   | 500,000.0              | False Northing at origin | 500,000.0            |
| Factor de scala la MC   | 0.99975                | Scale factor at CM       | 0.99975              |
| DATE VERTICALE          | MSL (NIVELUL MARIILOR) | VERTICAL DATUM           | MSL                  |

PLAN DE REFERINTA / KEY PLAN



PROIECT NEPTUN DEEP / NEPTUN DEEP PROJECT

| REV. | REV. DATE | REV. DESCRIPTION  | ORIG. | REV. | APP. | APP. |
|------|-----------|-------------------|-------|------|------|------|
| 2    | 15DEC17   | RE-ISSUED FOR IFD | FK    | EP   | SS   | JG   |
| 1    | 26SEP17   | RE-ISSUED FOR IFD | FK    | EP   | SS   | JG   |
| 0    | 04AUG17   | ISSUE FOR IFD     | FK    | EP   | SS   | JG   |

CONDUCTA DE GAZE NATURALE 30" 30-INCH PRODUCTION PIPELINE

FISA ALINIAMENT / ALIGNMENT SHEET

FISA NR. 015 DIN 016 SHEET 015 OF 016

1 : 20,000 ROND-EW-YDPAL-24-0017-C DTAC 2-D

SCALE / SCALE: 1:20,000 NPL PLANSA / DWG. NO. 16 PAZA / PHASE REV. / REV. A1+ (1092594)

ACRONIME

TP - PUNCT SCHIMBARE DIRECTIE

KP - POZITIE KILOMETRICA (CONDUCTA)

IP - PUNCT INFLEXIUNE

ACRONYMS

TP - TURN POINT

KP - KILOMETRIC POINT

IP - INFLEXION POINT

Conform legislatiei romanesti, virgula si punctul sunt utilizate invers, pentru definirea zecimalor.

Dimensiunile in sistem US au fost definite astfel: Simbolul virgula a fost folosit pentru separarea cifrelor din interiorul numerelor care definesc sute, mii sau zeci in functie de caz. Subunitatile de masura (zecimalele) au fost separate prin punct. Prin urmare zecimalele vor fi cifrele din interiorul numerelor atate dupa simbolul punct.

According to the Romanian legislation, the comma and the point are used in reverse, for the definition of decimals.

The dimensions in the US system have been defined as follows: The comma symbol has been used to separate digits inside the numbers when the digit define hundreds, thousands or tens depending on the case. The digit of decimals are separated by a point. In according with the rules in Romania the coma and point are use in opposite way for defining the digit inside of number. For this reason all the digit inside of number after point will be read like decimals.

**ExxonMobil**

Exploration and Production Romania Limited