



DATE TEHNICE / ENGINEERING DATA														
ELEMENTE TRASEU	ORIENTARE (°N) / RAZA DE CURBURA (m)		ROUTE ITEMS	STRAIGHT HEADING (°N) / BEND RADIUS (m)		1,750		1,750						
	TRAVERSARE CABLU/CONDUCTA			CABLE / PIPELINE CROSSING										
DATE CONDUCTA	TIP SOL LA SUPRAFATA FUNDULUI MARI		PIPELINE DATA	SURFACE SEABED SOIL		ZONA 1 - ARGILA VERZUI-INCHIS CU REZISTENTA FOARTE SCAZUTA (NOTA 4) / ZONE 1 - EXTREMELY LOW STRENGTH DARK GREENSH CLAY (NOTE 4)								
	TIP OTEL / D. EXT. (mm) / GROSIME PERETE (mm)			STEEL GRADE / O.D. (mm) / WALL THICKNESS (mm)		DNV SMLS 450 SFDPU / 355.6 / 218								
	GROSIME PERETE DISP. ANTIDEFORMARE(mm) / INTERVAL (m)			BUCKLE ARRESTOR W.T. (mm) / SPACING (m)		NU EXISTA / NONE								
	STRAT ANTI-COROZIV/GROSIME(mm)/DENSITATE(kg/m³)			ANTI-CORR. COAT / THICK (mm) / DENSITY (kg/m³)		NU SE APLICA / N/A								
	STRAT TERMOIZOLANT/GROSIME (mm)/DENSITATE (kg/m³)			EXT. THER. INS. COAT/THICK (mm)/DENSITY (kg/m³)		FBE + POLIPROPILENA SINTETICA / 75 / 790 (NOTA 10) / FBE + SYNTACTIC POLYPROPYLENE / 75 / 790 (NOTE 11)								
	STRAT BETON / STRAT INTERIOR PROTECTIE			CONCRETE COATING / INTERNAL COATING		NU EXISTA / NONE								
	TIP SUDURA/TIP UMPLUTURA/DENSITATE (kg/m³)			FIELD JOINT TYPE / INFILL / DENSITY (kg/m³)		POLIURETAN / POLYURETHANE / 950 (TIP / TYP)								
	TIP ANOD PROTECTIE / INTERVAL PLASARE (NR. DE SEGMENTE)			ANODE BRACELETS TYPE / SPACING (joints)		ALUMINIU [300mm x 50mm] 1 LA 24 SEGMENTE / AL [300mm x 50mm] / 1 EVRY 24 JOINTS								
	GREUTATE CONDUCTA (kN/m)			PIPELINE WEIGHT (kN/m)		2.5459								
	IN APA			IN AIR (USCATA) (kN/m)		EMPTY (kN/m) / SG		0.5278 / 1.26						
GOALA (kN/m) / SG		INUNDATA (kN/m) / SG		SUBMERGED FLOODED (kN/m) / SG		1.2963 / 1.64								
FUNCTIONARE (kN/m) / SG		OPERATION (kN/m) / SG		0.6050 (IN MEDIE / AVERAGE) / 1.30										
DATE INCALZIRE ELECTRICA DIRECTA (NOTE 13)	D. EXT. (mm)		DEH DATA (NOTE 13)	O.D. (mm)		125								
	IN AER (USCATA) (kg/m)			IN AIR (DRY) (kg/m)		43								
	IN APA (kg/m) / SG			SUBMERGED (kg/m) / SG		32 / 3.9								
LUCRARI PRE-INSTALARE CONDUCTA	TIP LEGATURI/NR. DE LEGATURI PE SEGMENT		PRE-LAY INT. WORKS	TYPE OF STRAP/No. OF STRAPS PER JOINT		VA FI CONFIRMAT / T.B.D.								
	ADANCIME DRAGARE (m) / LATIME (m)			DREDGING DEPTH (m) / WIDTH (m)		0.7 / 5.0 (NOTE 10)								
LUCRARI POST-INSTALARE CONDUCTA	ADANCIME SANT (m)		POST-LAY INT. WORKS	TRENCHING DEPTH (m)		NU EXISTA / NONE								
	TIP UMPLUTURA / INALTIME STRAT ACOPERIRE (m)			BACKFILLING TYPE / COVER TOP (m)		NU SE APLICA / N/A								
	DEPUNERE AGREGAT/PIETRI			GRAVEL DUMPING		NU SE APLICA / N/A								
LUNGIMEA TRONSON ADMISA	INSTALARE (m)		ALLOWABLE SPAN LENGTH (NOTE 10)	INSTALLATION (m)		43.5								
	HYDRO-TEST (m)			HYDROTEST (m)		28.1								
CERINTE SPECIFICE	FUNCTIONARE (m)		SPECIFIC REQUIREM.	OPERATION (m)		33.0								
	TOLERANTA LA INSTALARE (+/-m)			LAY TOLERANCE (+/-m)		±10								
ALTELE		OTHER		±10		±2						±10		±2

SE APLICA PREVEDERILE PRIVIND CONFIDENTIALITATEA DIN CONTRACTUL DE CONCESIUNE NEPTUN DEEP SI A CONTRACTULUI DE OPERATIUNI COMUNE AFERENT SI/SAU CONTRACTORUL DE CONFIDENTIALITATE APLICABIL IN NUIELE EXXONMOBIL EXPLORATION AND PRODUCTION ROMANIA LIMITED.

NOTE	NOTES
1. DACA NU SE PRECIZEAZA ALTTEL, TOATE DIMENSIUNILE SUNT EXPRIMATE IN METRI. 2. TOATE COTELE DE NIVEL SUNT IN METRI, RELATIV LA NIVELUL MARI. 3. DATELE BATIMETRICE PROVIN DIN BAZA DE DATE GEOTEHNICE SI GEOFIZICE GIS ACTUALIZATE IN 2014, DOCUMENT FUGRO J3135-R-00103). PENTRU PROIECTUL NEPTUN DEEP, BATIMETRIA PENTRU ACCESUL LA LOCATIA PLATFORMEI A FOST ACTUALIZATA PRIN DOCUMENTUL FUGRO 1604-24-V3 (2017). 4. DATELE DESPRE SOLUL DE PE FUNDUL MARI PROVIN DIN RAPORTUL INTEGRAT NEPTUN DEEP, ROND-EW-GRPT-00-0015-001. A SE VEDEA DOCUMENTUL CU NUMARUL ROND-EW-YBDBM-20-0002 PENTRU DATE DESPRE SOL LA LOCATIA PLATFORMEI ACTUALIZAT CU MASURATURILE FUGRO 2017. 5. ORIENTARILE INDICATE DUPA NORDUL STEREO 70. 6. PENTRU DETALII PRIVIND LEGATURILE CU PLATFORMA SI LA LOCATIA SONDELOR SUBMARINE VEZI DOCUMENTELE: ROND-EW-YDPLX-21-0003/0004, ROND-EW-YDLAY-22-0005 SI ROND-EW-YDPAL-22-0012. 7. PORTIUNILE CONDUCTEI DE ADUCTIUNE SITUATE IN AFARA SANTURILOR SI IN APROPIEREA MOSORULUI PLATFORMEI DE PRODUCTIE, VOR FI PROTEJATE CU SALTILE. 8. DISTANTA MINIMA INTRE CONDUCTA DE ADUCTIUNE SI SISTEMUL OMBILICAL ESTE DE 100m (NOMINAL 120m, INCLUZAND TOLERANTELE DATORITA CERTELOR INCALZIRII ELECTRICE DIRECTE IDEH). 9. PENTRU POZITIA SI CONFIGURATIA INITIATORULUI DE CURBURA VEZI DOC. ROND-EW-YDLAY-21-0012 / 0013. 10. PENTRU DETALII PRIVIND LUCRARILE DE PRE-INTERVENTIE, LEGATE DE PROFILUL SANTULUI CONSULTATI DOC. ROND-EW-YDPLX-21-0003/0004. 11. SE VA CONFIRMA GROSIMEA NECESARA PENTRU IZOLATIE CONFORM FISA DE DATE TEHNICE PENTRU IZOLATIE ROND-EW-YSTDS-21-0002. 12. A SE CONSULTA ROND-EW-YRSTS-21-0002, RAPORT TRONSON. 13. A SE CONFIRMA PROPRIETILE INCALZIRII ELECTRICE DIRECTE (IDEH) IN PROIECTUL DETALIAT.	1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE. 2. ALL ELEVATIONS ARE IN METERS AND RELATIVE TO MSL. 3. BATHYMETRY DATA FROM 2014. GEOTECHNICAL AND GEOPHYSICAL GIS DATABASE UPDATE, FUGRO DOCUMENT J3135-R-00103) FOR THE NEPTUN DEEP DEVELOPMENT. PLATFORM LOCATION APPROACH BATHYMETRY UPDATED BY FUGRO DOCUMENT 1604-24-V3 (2017). 4. SEABED SOIL DATA FROM NEPTUN DEEP INTEGRATED REPORT, ROND-EW-GRPT-00-0015-001. SEE DESIGN DOCUMENT NUMBER ROND-EW-YBDBM-20-0002 FOR PLATFORM LOCATION SOIL DATA UPDATED BY FUGRO SURVEY 2017. 5. HEADINGS INDICATED ARE RELATIVE TO STEREO 70 NORTH. 6. FOR DETAILS OF TIE-INS AT PLATFORM AND SUBSEA WELL LOCATION REFER TO DRAWING: ROND-EW-YDLAY-22-0012, ROND-EW-YDLAY-22-0005 AND ROND-EW-YDPAL-22-0011. 7. AT SHALLOW WATER PLATFORM SPOOL AND NO TRENCHED FLOWLINE SECTION WILL BE PROTECTED BY MATTRESSES. 8. MINIMUM DISTANCE OF 100m BETWEEN FLOWLINE AND UMBILICAL (120m NOMINAL INCLUDING TOLERANCES) DUE TO DEH REQUIREMENTS. 9. FOR BUCKLE INITIATOR POSITION AND CONFIGURATION REFER TO ROND-EW-YDLAY-21-0012 / 0013. 10. PRE-INTERVENTION WORKS FOR TRENCHING PROFILE DETAILS REFER TO ROND-EW-YDPLX-21-0003/0004. 11. THICKNESS TO BE CONFIRMED WHILE MEETING INSULATION REQUIREMENTS IN ROND-EW-YSTDS-20-0031, TECHNICAL DATA SHEET FOR INSULATION. 12. REFERENCE ROND-EW-YRSTS-21-0002, SPAN REPORT. 13. DEH PROPERTIES TO BE CONFIRMED DURING DETAILED DESIGN.

DOCUMENTE DE REFERINTA		REFERENCE DOCUMENTS	
NUMAR PLANSA	DESCRIERE	DRAWING NUMBER	DESCRIPTION
ROND-EW-YDLAY-22-0012	PLAN ACCES SISTEM OMBILICAL LA DOMINO D00C1	ROND-EW-YDLAY-22-0012	DOMINO FLOWLINE WELL APPROACH LAYOUT D00C-1
ROND-EW-YDLAY-22-0005	PLAN ACCES SISTEM OMBILICAL LA DOMINO D00C2	ROND-EW-YDLAY-22-0005	DOMINO FLOWLINE WELL APPROACH LAYOUT D00C-2
ROND-EW-YDLAY-22-0011	ARANJAMENT ACCES CONDUCTA DE ADUCTIUNE SI CONDUCTA GAZE NATURALE LA PLATFORMA (SWP)	ROND-EW-YDLAY-22-0011	FLOWLINE AND PRODUCTION LINE PLATFORM (SWP) APPROACH ARRANGEMENT
ROND-EW-YDPAL-22-0003/0008	FISE ALINIAMENT SISTEM OMBILICAL DOMINO	ROND-EW-YDPAL-22-0003/0008	DOMINO UMBILICAL ALIGNMENT SHEETS
ROND-EW-YDLAY-21-0012/0013	PLAN LUCRARI ATENUARE DEFORMARE LATERALA CONDUCTA ADUCTIUNE DOMINO	ROND-EW-YDLAY-21-0012/0013	DOMINO LATERAL BUCKLING MITIGATION WORKS LAYOUT
ROND-EW-YDPLX-21-0003/0004	LUCRARI INTERVENTIE PRE-INSTALARE	ROND-EW-YDPLX-21-0003/0004	DOMINO PRE-LAY INTERVENTION WORKS

SCALA	SCALE BAR
0 100 500 1,000 METRI	0 100 500 1,000 METERS
SCALA ORIZONTALA 1:10,000 (FORMAT "A1")	HORIZONTAL SCALE 1:10,000 (AT "A1" SIZE)

PARAMETRI GEODEZIE SI DE PROIECTIE	GEODETIC & PROJECTION PARAMETERS
DATE GEODEZICE PROIECTIE Meridianul central (MC) Latitudine Origine False origine estica False origine nordica Factor de scala la MC DATE VERTICALE	STEREO 70 Dublu Stereografica 25.0 46.0 500,000.0 500,000.0 0.99975 MSL (NIVELUL MARI)

PLAN DE REFERINTA / KEY PLAN

ACEASTA SECTIUNE / THIS CHART

PROJECT NEPTUN DEEP / NEPTUN DEEP PROJECT

16 OCT 17 RE-ISSUED FOR IFD

07 JUL 17 ISSUE FOR IFD

1:10,000 ROND-EW-YDPAL-21-0006-C DTAC 1-D

MR. PLANSA / DWG. NO. A1+ (1082594)

NOTA / NOTE:

Planşa este întocmită în sistemul de coordonate WGS 84. Coordonatele STEREO 70 au fost obținute prin conversie, folosind metode electronice de calcul și parametri specifici. Conversia presupune transformări (translații, rotații și/sau scalări) ale coordonatelor WGS 84. Definițiile sunt documentele realizate în sistemul WGS 84. Acestea vor fi utilizate în scopul punerii în opera a proiectului. Documentele emise în sistemul STEREO 70 reprezintă răspunsul la cerințele autorităților și legislației românești.

The plan is prepared in WGS 84 coordinate system. The STEREO 70 coordinates were obtained by conversion, using electronic calculation methods and specific parameters. The conversion involves transformations (translations, rotations and/or scaling) of the WGS 84 coordinates. The definitions are the documents made in the WGS 84 system. These will be used for the purpose of implementing the project. The documents issued in the STEREO 70 system represent the answer to the requirements of the Romanian authorities and legislation.

Conform legislației românești, virgula și punctul sunt utilizate invers, pentru definirea zecimalelor. Dimensiunile în sistem US au fost definite astfel: Simbolul virgula a fost folosit pentru separarea cifrelor din interiorul numărului care definesc sute, mii sau zeci în funcție de caz. Subunitățile de măsură (zecimalele) au fost separate prin punct. Prin urmare zecimalele vor fi citite din interiorul numerelor aflate după 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 digit inside the numbers when the digit defines hundreds, thousands or tens depending on the case. The digit of decimals are separated by a point. In accordance with the rules in Romania the comma and point are used in opposite way for defined the digit inside of number. For this reason all the digit inside of number after point will be read like decimals.