

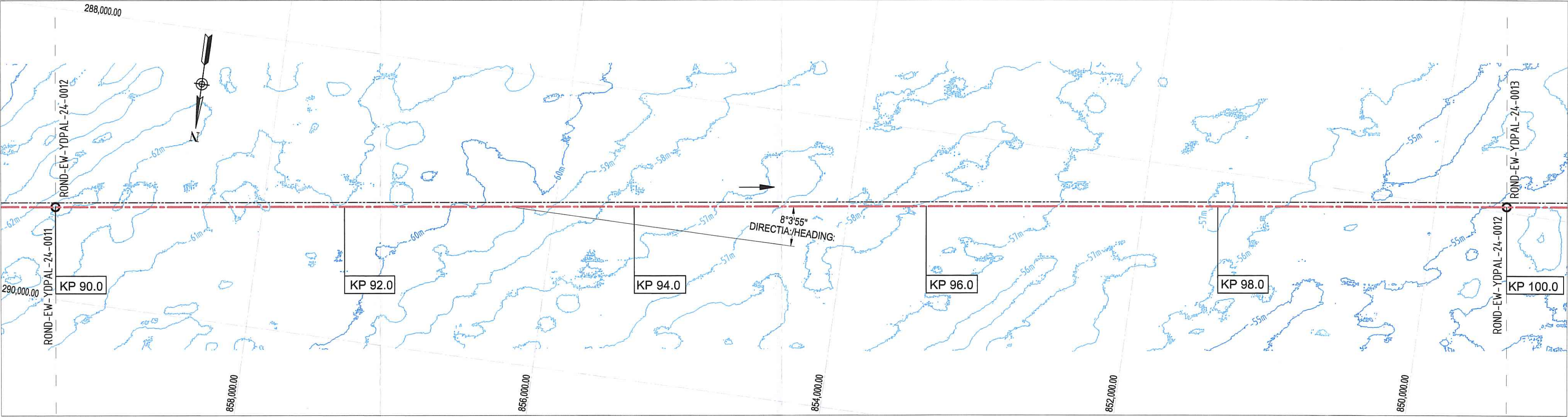
PROIECTIE IN PLAN / PLAN VIEW (Scala / Scale 1:20,000)

TIE-IN POINT		MATCH POINT END	
X	Y	X	Y
289,364.26	859,422.94	287,959.87	849,510.27
PUNCT DE CONEXIUNE		PUNCT LEGATURA DE FINAL	
X	Y	X	Y
289,364.26	859,422.94	287,959.87	849,510.27

LEGENDA / LEGEND

CONDUCTA DE GAZE NATURALE / PRODUCTION PIPELINE

FIBRA OPTICA / FIBRE OPTIC CABLE

PROFIL FUNDUL MARII / SEABED PROFILE

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

NOTE

1. DACA NU SE PRECIZEAZA ALT FEL TOATE DIMENSIUNILE SUNT EXPRIMATE IN METRI.

2. TOATE COTELE DE NIVEL SUNT IN METRI, RELATIV LA NIVELUL MARII.

3. DATELE BATMETRICE PROVIN DIN BAZA DE DATE GEOTEHNICE SI GEOFIZICE GIS ACTUALIZATA IN 2014, DOCUMENT FUGRO J31135-R-001(03) ACTUALIZAT PENTRU PROIECTUL NEPTUN DEEP.

4. DATELE DE SOL PROVIN DIN RAPORTUL INTEGRAT NEPTUN DEEP ROND-EW-GRRPT-00-0015-001 A SE VEDEA DOCUMENTUL CU NUMARUL ROND-EW-YDBBM-20-0002.

5. DIRECTIILE SUNT INDICATE IN RAPORT CU NORDUL STEREO 70.

6. 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 (SWPI).

7. STERS.

8. PENTRU DETALII PRIVIND ANOZII CONSULTATI PLANSA ROND-EW-YDCPD-24-0002 SI DOCUMENTUL ROND-EW-YRSTY-24-0002.

9. CARACTERIZAREA SOLULUI ESTE BAZATA PE NOTA TEHNICA 408009-00349-TN-003 (A SE VEDEA SI NOTA 4).

10. STRAT INTERIOR CONDUCTA CONFORM SPECIFICATIEI STRAT EPOXIDIC INTERN ROND-EW-YSPOS-20-0039.

11. A SE NOTA CA GROSIMEA ANOZILOR SI DISTANTA ADMISA DINTRE EI VOR FI RE-EVALUATE IN DETALIILE DE EXECUTIE IN BAZA GROSIMII ACTUALE A STRATULUI DE BETON.
- SUBJECT TO CONFIDENTIALITY PROVISIONS OF THE NEPTUN DEEP CONCESSION AGREEMENT AND RELATED JOINT OPERATING AGREEMENT AND/OR THOSE OF THE APPLICABLE NON-DISCLOSURE AGREEMENT ON BEHALF OF EXXONMOBIL EXPLORATION AND PRODUCTION ROMANIA LIMITED.

NOTES

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 J31135-R-001(03) FOR THE NEPTUN DEEP DEVELOPMENT.

4. SEABED SOIL DATA FROM NEPTUN DEEP INTEGRATED REPORT ROND-EW-GRRPT-00-0015-001, SEE DESIGN DOCUMENT NUMBER ROND-EW-YDBBM-20-0002.

5. HEADINGS INDICATED ARE RELATIVE TO STEREO 70 NORTH.

6. FOR DETAILS OF TIE-INS AT PLATFORM LOCATION REFER TO DRAWING: ROND-EW-YDPAL-22-0011 - FLOWLINE AND PRODUCTION LINE PLATFORM (SWPI) APPROACH ARRANGEMENT.

7. DELETED.

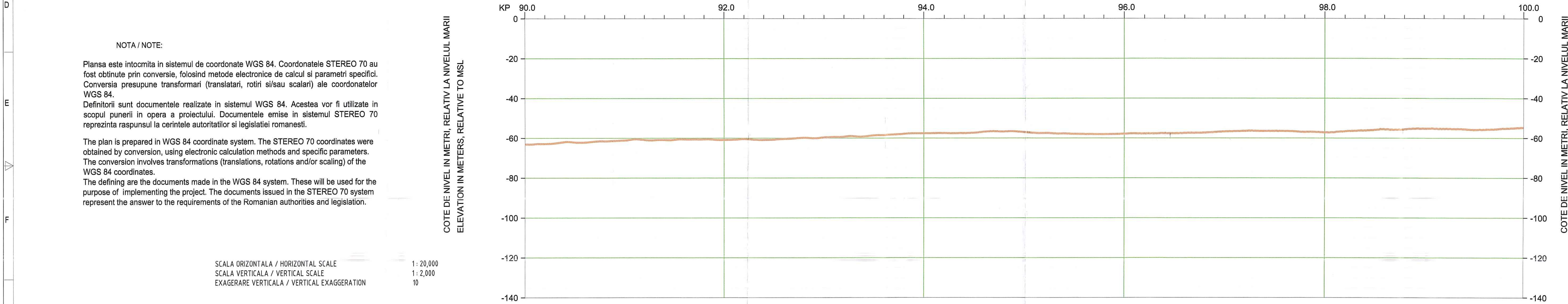
8. FOR ANODE DETAILS REFER TO DRAWING ROND-EW-YDCPD-24-0002 & DOCUMENT ROND-EW-YRSTY-24-0002.

9. SOIL CHARACTERIZATION BASED ON TECHNICAL NOTE 408009-00349-TN-003 (SEE ALSO NOTE 4).

10. INTERNAL FLOW COAT AS PER INTERNAL EPOXY COATING SPECIFICATION ROND-EW-YSPOS-20-0039.

11. NOTE THAT ALLOWABLE SPANS AND ANODE THICKNESSES ARE TO BE RE-ASSESSED IN DETAILED DESIGN BASED UPON ACTUAL CONCRETE COATING THICKNESSES.

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)	
			8° 3' 55"	
DATE CONDUCTA	TRAVERSARE CONDUCTA / CABLU	PIPELINE DATA	NU EXISTA / NONE	
	TIP SOL LA SUPRAFATA FUNDULUI MARII		ZONA 4 - NISIP (NOTA 9) / ZONE 4 - SAND (NOTE 9)	
	TIP OTEL / DIAM. EXT. (mm) / GROSIME PERETE (mm)		DNV SAWL 450 FDU / 762 / 17.5	
	GROS PERETE DISP. ANTIDEFORMARE (mm) / INTERVAL (m)		NU EXISTA / NONE	
	STRAT ANTI-COROZIV/GROS (mm)/DENSITATE(kg/m³)		FBE / 0.38 - 0.815 / 1,350	
	STRAT INT. PROT. / GROSIME (µm) / DENSITATE (kg/m³)		STRAT INTERIOR PROTECTIE (NOTA 10) / 50 / 1,500 / INTERNAL FLOW COAT (NOTE 10) COATING / 50 / 1,500	
	STRAT BETON: GROSIME (mm) / DENSITATE (kg/m³)		75 / 3,050	
	TIP SUDURA / TIP UMPLUTURA / DENSITATE (kg/m³)		FBE + POLIURETAN 128 - 224 / FBE + POLYURETHANE / 128 - 224	
	TIP ANOD / MASA (kg) / INTERVAL MONTAJ (segmente)		100 / 3,050	
	GOALTA (kN/m) / SG		ALUMINIU (40x800) / 161 / 1 LA 10 SEGMENTE / AL (40x800) / 161 / 1 EVERY 10 JOINTS	
LUCRARI PRE-INSTALARE CONDUCTA	ADANCIME DRAGARE (m) / LATIME (m)	PRE-LAY INT. WORKS	9.070	
	SUPORTI / SALTELE BETON		11.274	
	ADANCIME SANT (m)		4.039 / 156	
	TIP UMPLUTURA / STRAT ACOPERITOR (m)		8.165 / 213	
	STRAT PIETRIS		4.172 / 158	
	INSTALARE (m)		63.7	
	HYDRO-TEST (m)		39.0	
	FUNCTIONARE (m)		4.0	
	TOLERANTA LA INSTALARE (m)		±10	
	ALTELE		OTHER	

ACRONIME

- TP - PUNCT SCHIMBARE DIRECTIE
KP - POZITIE KILOMETRICA (CONDUCTA)
IP - PUNCT INFLEXIUNE

ACRONYMS

- TP - TURN POINT
KP - KILOMETRIC POINT
IP - INFLEXION POINT

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 numerelor care definesc sute, mii sau zeci în funcție de caz. Subunitățile de măsură (zecimalele) au fost separate prin punct. Prin urmare zecimalele vor fi cifrele 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 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 defined the digit inside of number. For this reason all the digit inside of number after point will be read like decimals.

PROIECT NEPTUN DEEP / NEPTUN DEEP PROJECT

2-D	12.02.21	EMIS PENTRU VERIFICARE / ISSUED FOR REVIEW	M. DUMITRU	C. STEFAN	N. EREMA
2-D	10.02.21	EMIS PENTRU VERIFICARE / ISSUED FOR REVIEW	M. DUMITRU	C. STEFAN	N. EREMA
2-B	29.05.20	EMIS PENTRU VERIFICARE / ISSUED FOR REVIEW	O. MOISE	C. STEFAN	N. EREMA
2-A	04.02.20	EMIS PENTRU VERIFICARE / ISSUED FOR REVIEW	O. MOISE	C. STEFAN	N. EREMA
REV	DATE	DESCRIERE, SCOPUL REVIZIIEI / ISSUE, SCOPE OF REVISION	DESEINAT / DESIGNED	PROIECTAT / APPROVED	SEF PROIECT / PROJECT MANAGER
REV	DATE	DESCRIERE, SCOPUL REVIZIIEI / ISSUE, SCOPE OF REVISION	DESEINAT / DESIGNED	PROIECTAT / APPROVED	SEF PROIECT / PROJECT MANAGER
VERIFICATOR / CHECKER			I. BUTNARIU		ANRE
REFERAT NR. / EXPERTIZA NR. / DATA / DATE					
PROIECTANT / ENGINEERING CONTRACTOR					
ILF CONSULTING ENGINEERS ROMANIA					
STR. NEPTUNULUI NR. 10, 101148, FLORESTI					
J2930715007, RO 22604820					
S.C. JEREMY PROMASTER S.R.L.					
STR. CURCUBULUI, NR. 14A, PLOIESTI					

ExxonMobil Exploration and Production Romania Limited

CONDUCTA DE GAZE NATURALE 30" 30-INCH PRODUCTION PIPELINE

FISA ALINIAMENT / ALIGNMENT SHEET
FISA NR. 010 DIN 016
SHEET 010 OF 016