



BLOCK C-M-541



SERVICE REPORT – PSV SIEM GIANT (STATION 1-BRSA-125-RJS)

Client:	Total E&P do Brasil
Client Document Number:	SG-CM541-20-130
Oceaneering Document Number:	200392-OII-RPT-130-R1
Project Name:	C-M-541 Field Development
Vessel:	PSV Siem Giant
Location:	Campos Basin

Rev	Reason For Issue	Author	Reviewed	Approved	Rev Date
0	Issued for Information	SO/ME	GA	EC	23-02-2020
1	All report Reviewed	SR/GA	LP	EC	27-03-2020



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0	ALL	Issued for Information	23-02-2020
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C-M-541 BLOCK EBS (Station #44)	
FIELD	LOCATION(S)
C-M-541	Campos Basin

1. INTRODUCTION

1.1. Project Overview

Total E&P do Brasil (Total) has contracted Oceaneering – Marine Production Systems do Brasil (OII) to provide ROV & Survey services for Umbilical, Flowlines and Risers Inspections (UFR) and Field Operations Development at LAPA Field (Production phase) and Block C-M-541 (Exploration phase).

The deep offshore block C-M-541 under exploration is situated in the pre-salt Campos Basin in approximately 3,000m water depth.

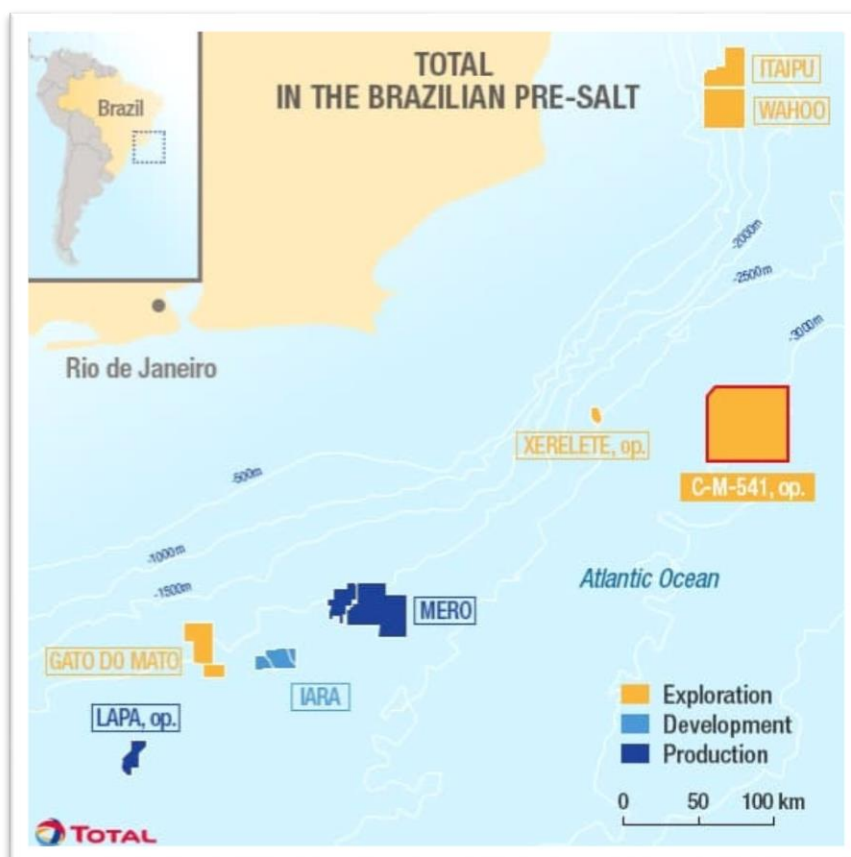




Figure 1 – TOTAL E&P in Brazilian Pre-Salt

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1.2. Scope of Document

The purpose of this document is to present a detailed summary of operations and results acquired by Oceaneering on board of PSV Siem Giant, during the Environmental Baseline Survey (EBS) at Block C-M-541, in search features such as carbonate formation, or any other marine or anthropogenic features that may affect further activities in this area.

1.3. Scope of Work

The Scope of Work comprises in perform a General Visual Inspection (GVI) denominated Environmental Baseline Survey (EBS) in some pre-selected stations and points at the Block C-M-541 in order to present to the environmental agencies and organizations.

The acquisition of video images for the EBS shall follow the lines around the center of each of 09 (nine) pre-selected stations.

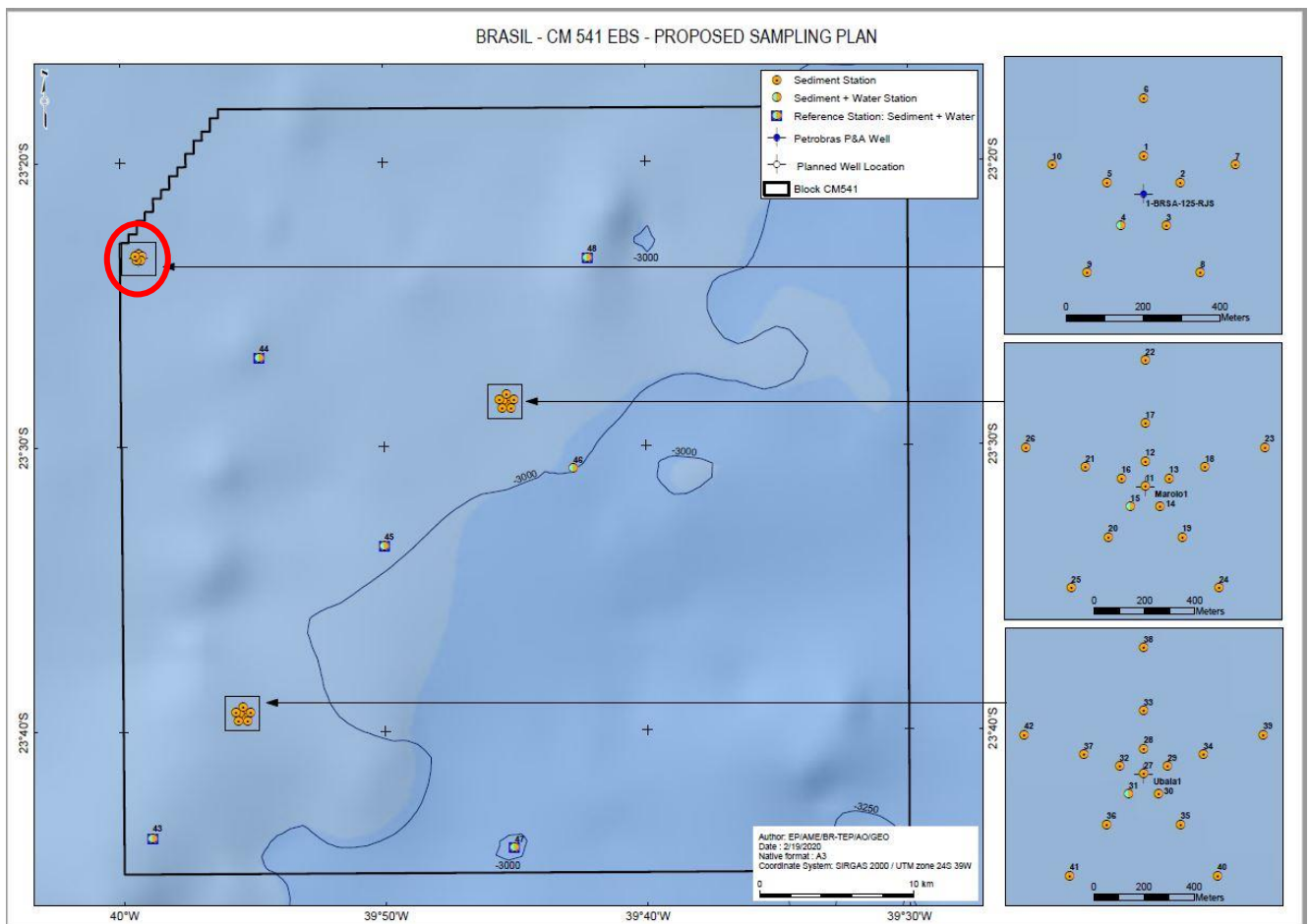




Figure 2 – Proposal Sampling Plan at Block C-M-541

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2. OPERATIONAL PLAN

It was proposed by the client that this inspection should be performed by ROV on paths along Cardinal Directions (N, NE, E, SE, S, SW, W and NW), and as well a running circles radius around the center point of each station.

The acquisition of images for the baseline survey followed lines around the center of each of the nine stations, similar to the example in the figure below:

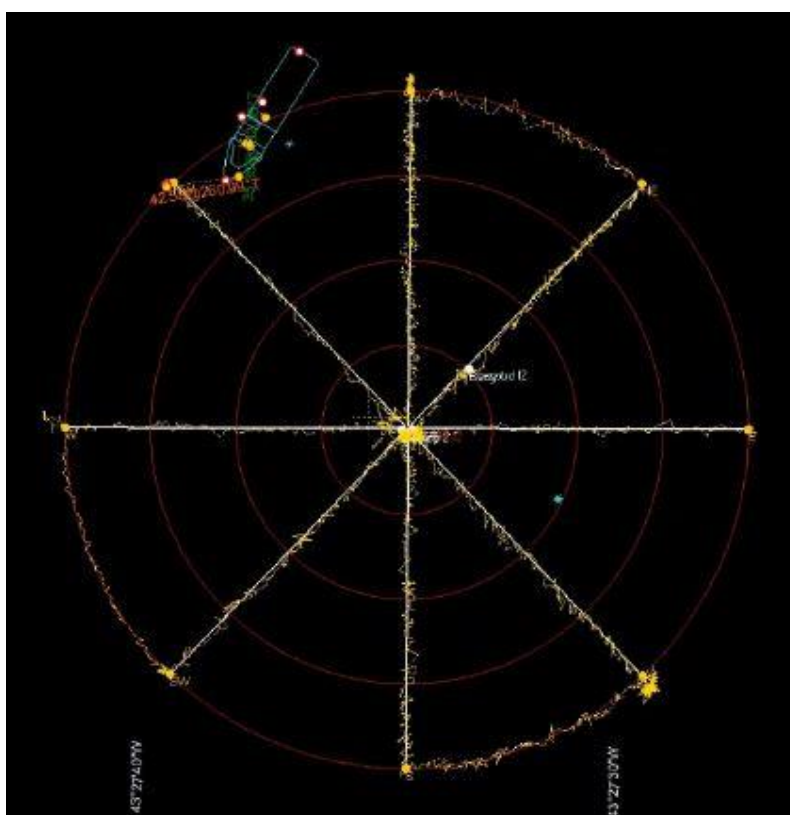




Figure 3 – Example of navigation path during the baseline survey

Instructions were received by client, and proposed coordinates for each survey were indicated on map (**Figure 3**). This report focuses on Station 1-BRSA-125-RJS only.



Station 1-BRSA-125					
Northing	Easting	Latitude	Longitude	Estimated Depth	As-Found Depth
7.413.085,22	398.979,57	23° 23' 19,93" S	039° 59' 18,82" W	2.830	2.852

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The table below presents all Station positions and points where some close visual inspection and stills need to be performed and taken, respectively. Radial distance from center have different lengths according the client interests.

Sampling Plan of BLOCK C-M-541				
IDENTIFIER	STATION NAME	Radius (m) Distance from center	SIRGAS 2000 UTM 24S	
			X	Y
1	Poço 1-BRSA-125-RJS	200	-39° 59' 18.805"	-23° 23' 16.687"
2	2	200	-39° 59' 15.471"	-23° 23' 18.954"
3	3	200	-39° 59' 16.778"	-23° 23' 22.582"
4	4	200	-39° 59' 20.919"	-23° 23' 22.555"
5	5	200	-39° 59' 22.172"	-23° 23' 18.912"
6	6	200	-39° 59' 18.769"	-23° 23' 11.810"
7	7	200	-39° 59' 10.435"	-23° 23' 17.479"
8	8	200	-39° 59' 13.702"	-23° 23' 26.547"
9	9	200	-39° 59' 24.054"	-23° 23' 26.481"
10	10	200	-39° 59' 27.185"	-23° 23' 17.373"
11	MAROLO 1	400	-39° 45' 19.006"	-23° 28' 27.188"
12	12	400	-39° 45' 18.987"	-23° 28' 23.937"
13	13	400	-39° 45' 15.647"	-23° 28' 26.200"
14	14	400	-39° 45' 16.949"	-23° 28' 29.829"
15	15	400	-39° 45' 21.092"	-23° 28' 29.809"
16	16	400	-39° 45' 22.352"	-23° 28' 26.167"
17	17	400	-39° 45' 18.959"	-23° 28' 19.059"
18	18	400	-39° 45' 10.610"	-23° 28' 24.717"
19	19	400	-39° 45' 13.863"	-23° 28' 33.790"
20	20	400	-39° 45' 24.223"	-23° 28' 33.739"
21	21	400	-39° 45' 27.372"	-23° 28' 24.636"
22	22	400	-39° 45' 18.913"	-23° 28' 10.930"
23	23	400	-39° 45' 2.215"	-23° 28' 22.245"
24	24	400	-39° 45' 8.721"	-23° 28' 40.391"
25	25	400	-39° 45' 29.440"	-23° 28' 40.291"
26	26	400	-39° 45' 35.739"	-23° 28' 22.083"
27	UBAIA 1	400	-39° 55' 26.269"	-23° 39' 24.301"
28	28	400	-39° 55' 26.246"	-23° 39' 21.050"
29	29	400	-39° 55' 22.905"	-23° 39' 23.317"
30	30	400	-39° 55' 24.212"	-23° 39' 26.944"
31	31	400	-39° 55' 28.362"	-23° 39' 26.919"
32	32	400	-39° 55' 29.618"	-23° 39' 23.277"
33	33	400	-39° 55' 26.211"	-23° 39' 16.173"
34	34	400	-39° 55' 17.859"	-23° 39' 21.839"
35	35	400	-39° 55' 21.128"	-23° 39' 30.908"
36	36	400	-39° 55' 31.502"	-23° 39' 30.846"
37	37	400	-39° 55' 34.643"	-23° 39' 21.739"
38	38	400	-39° 55' 26.154"	-23° 39' 8.045"
39	39	400	-39° 55' 9.449"	-23° 39' 19.377"
40	40	400	-39° 55' 15.987"	-23° 39' 37.515"
41	41	400	-39° 55' 36.735"	-23° 39' 37.391"
42	42	400	-39° 55' 43.018"	-23° 39' 19.177"
43	43	200	-39° 58' 55.125"	-23° 43' 44.216"
44	44	200	-39° 54' 44.307"	-23° 26' 53.137"
45	45	200	-39° 50' 0.419"	-23° 33' 31.040"
46	46	200	-39° 42' 46.781"	-23° 30' 49.028"
47	47	200	-39° 45' 6.200"	-23° 44' 7.566"
48	48	200	-39° 42' 12.596"	-23° 23' 24.641"

Figure 4 – Station Locations

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3. PROJECT INFORMATION

The tables below details the project information regarding the personnel involved on operations, survey parameters, and the equipment to be inspected (**Table 1** to **Table 5**).

Table 1 – Operational Team		
Name	Function	Company
Gabriel Azzolini	Surveyor Supervisor	Oceaneering
Mona Earle	Online Surveyor	Oceaneering
Samyra Oliveira	Online Surveyor	Oceaneering
Vitor Elias	ROV Supervisor	Oceaneering
Michael Pinto	ROV Supervisor	Oceaneering
Natanael Melo	Captain	Siem Offshore

Table 2 – Geodetic Parameters	
DATUM PARAMETERS	
DATUM	SIRGAS 2000 (ITRF2000 at epoch 2000.40) EPSG Code 6674
ELLIPSOID	GRS 1980 (GRS) EPSG Code 7019
SEMI MAJOR AXIS (a)	6 378 137.000 m
SEMI MINOR AXIS (b)	6 356 752.314 m
ECCENTRICITY SQUARE (e ²)	0.006 694 380 02
INVERSE FLATTENING (1/f)	298.257 222 101
COORDINATE SYSTEM PARAMETERS	
PROJECTION	Universal Transverse Mercator
ZONE	24 South
CENTRAL MERIDIAN	039° West Greenwich
LATITUDE OF ORIGIN	000° Equator
FALSE EASTING	500 000.0 m
FALSE NORTHING	10 000 000.0 m
SCALE FACTOR	0.9996
PROJECTED CRS:	SIRGAS 2000 / UTM Zone 24 S EPSG Code 31984

Table 3 – Survey Instruments	
Operation Mode	SSBL
Depth Gauge	
Model	DIGIQUARTZ 8CB4000

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Time	
Universal Time Coordinate	UTC - 3 Hours
Vertical Datum	
Datum	LMSL
Tide	TPXO Model / Atlantic Ocean

Table 4 – Environmental Conditions			
Date	Wind (kts)	Swell (m)	Surface DP Current (kts)
21-02-2020	18,0 kts x 352°	2,5 m x 005°	1,4 kts x 172°

3.1. Sound Velocity Profile

Prior the beginning of operations, the ROV MILL 048 dived till the seabed at constant speed in order to collect the sound velocity, and its results were updated on the HIPAP USBL system. The figure below (**Figure 5** and **Table 5**) presents the profile during the downcast.

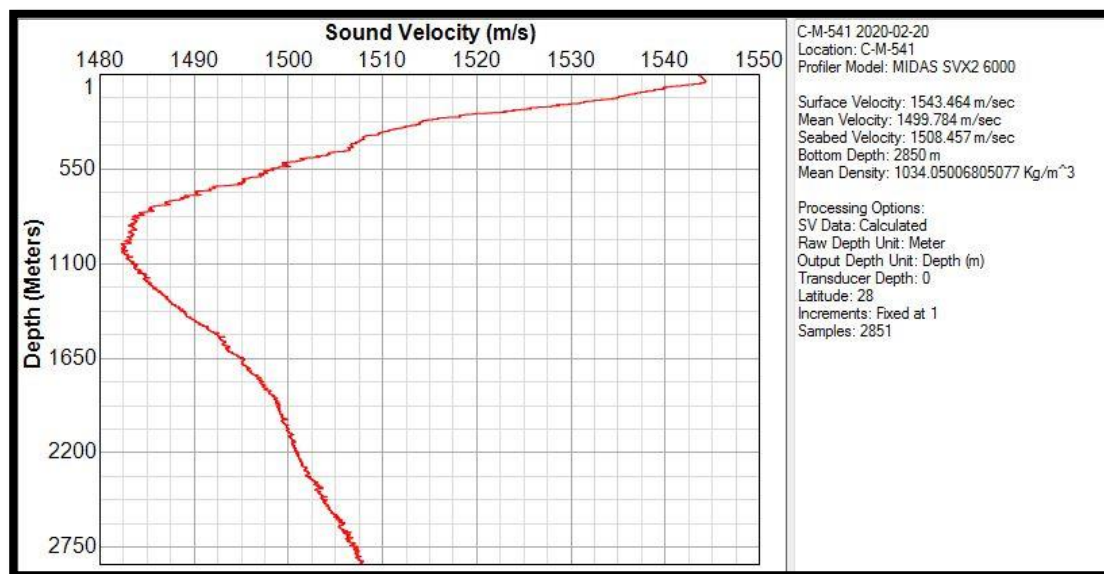




Figure 5 – SVP representation



Table 5 – Sound Velocity Profile			
Date	UTM Coordinates		Mean Sound Velocity (m/s)
	N (m)	E (m)	
20-02-2020	7.413.387,00	398.977,00	1498,78

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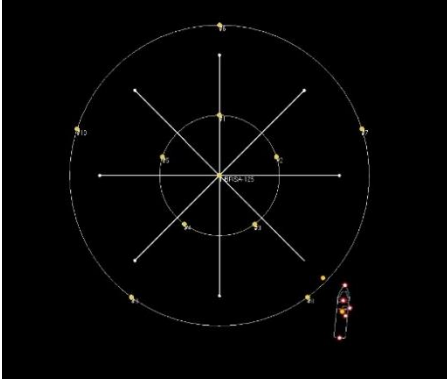
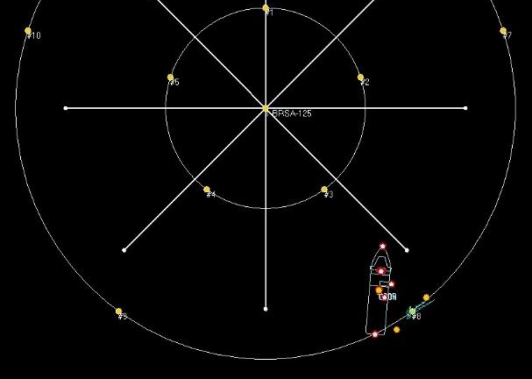
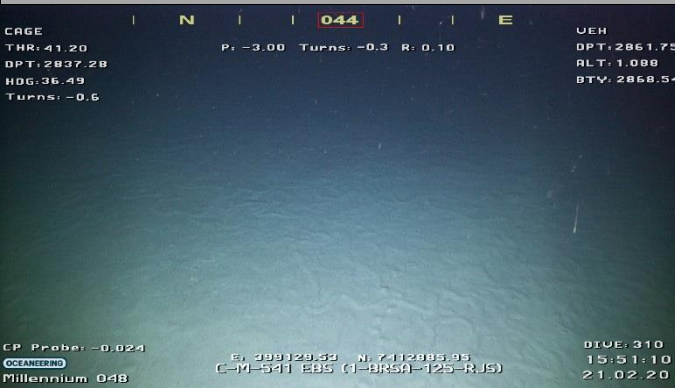
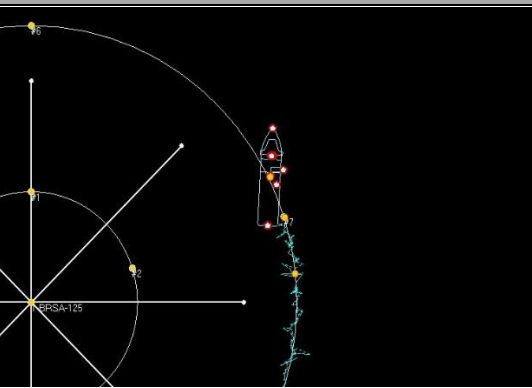


4. OPERATIONAL SEQUENCE

The ROV dived and commenced the inspection of the environmental baselines at 1-BRSA-125-RJS, following sequence:

- EBS at circle of 250m radius distance from the center – **Stations #6 to #10**(Picture 1 to Picture 22);
- EBS at Baseline SE to NW (**Picture 23 to Picture 29**);
- EBS at Baseline N to S (**Picture 30 to Picture 33**);
- EBS at Baseline SW to NE (**Picture 34 to Picture 43**);
- EBS at Baseline W to E (**Picture 44 to Picture 47**);
- EBS at circle of 100m radius distance from the center – **Station #1 to #5** (Picture 48 to Picture 60).

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5. PICTURES

	
Picture 1 – 1-BRSA-125 – EBS Plan	Picture 2 – Station #8 – Plan View
 <p> CAGE N 044 E THR: 41.20 Pr: -3.00 Turns: -0.3 R: 0.10 DPT: 2837.28 HDG: 36.49 Turns: -0.6 UEH DPT: 2861.75 ALT: 1.088 DTV: 2868.54 CP Probe: -0.024 E: 399129.33 N: 7412095.93 C-M-541 EBS (1-BRSA-125-RJS) OCEANEERING Millennium 048 DIVE: 310 15:51:10 21.02.20 </p>	
Picture 3 – Station #8 – Seabed View	Picture 4 – Station #7 – Plan View
 <p> CAGE NW 351 N NE THR: 54.40 Pr: -0.50 Turns: -0.4 R: -2.40 DPT: 2835.16 HDG: 3.89 Turns: -0.7 UEH DPT: 2862.77 ALT: 0.792 DTV: 2863.56 CP Probe: -0.019 E: 399215.89 N: 7412155.31 C-M-541 EBS (1-BRSA-125-RJS) OCEANEERING Millennium 048 DIVE: 310 16:45:53 21.02.20 </p>	 <p> CAGE V NW 331 N THR: 54.00 Pr: -1.10 Turns: -0.5 R: -1.90 DPT: 2835.87 HDG: 338.49 Turns: -0.7 UEH DPT: 2862.66 ALT: 0.836 DTV: 2863.52 CP Probe: -0.020 E: 399172.64 N: 7412255.53 C-M-541 EBS (1-BRSA-125-RJS) OCEANEERING Millennium 048 DIVE: 310 17:04:31 21.02.20 </p>
Picture 5 – Station #7 – Seabed View	Picture 6 – Between Station 7 and 6 – Marine Life on Seabed



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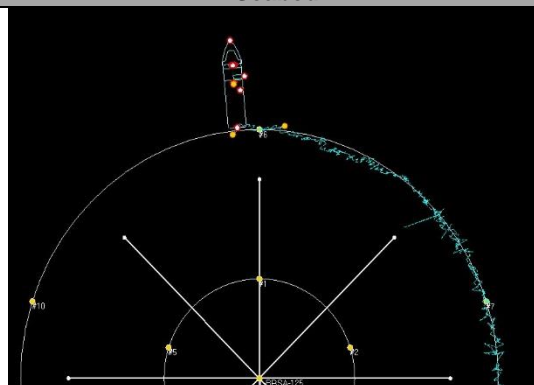
Picture 7 – Between Station 7 and 6 – Marine Life on Seabed



Picture 8 – Between Station 7 and 6 – Marine Life on Seabed



Picture 9 – Between Station 7 and 6 – Marine Life on Seabed



Picture 10 – Station #6 – Plan View



Picture 11 – Station #6 – Seabed View



Picture 12 – Between Station 6 and 10 – Marine Life on Seabed



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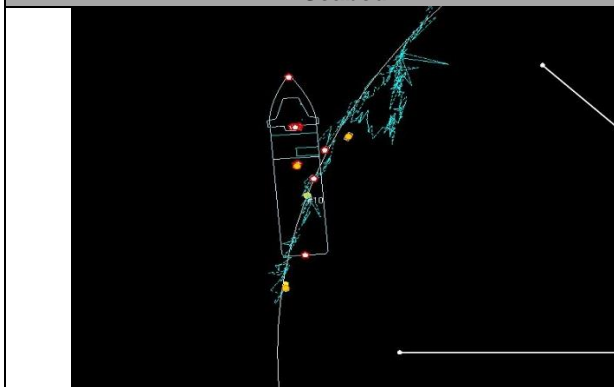
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Picture 13 – Between Station 6 and 10 – Marine Life on Seabed



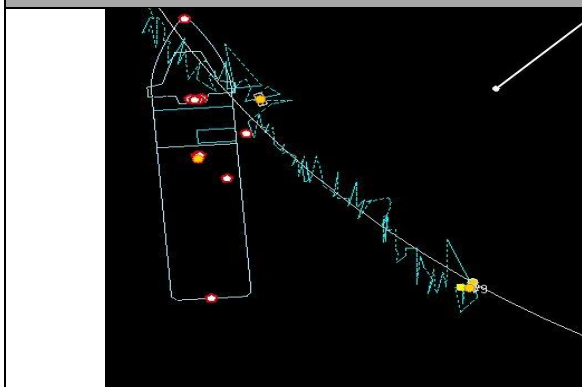
Picture 14 – Between Station 6 and 10 – Marine Life on Seabed



Picture 15 – Station #10 – Plan View



Picture 16 – Station #10 – Seabed View



Picture 17 – Station #09 – Plan View



Picture 18 – Station #09 – Seabed View



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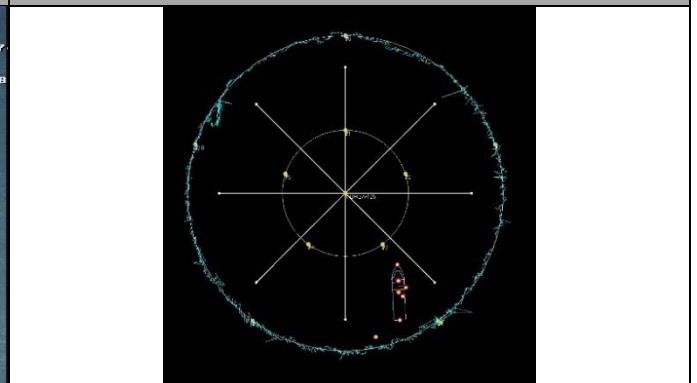
Picture 19 – Between Station 9 and 8 – Marine Life on Seabed



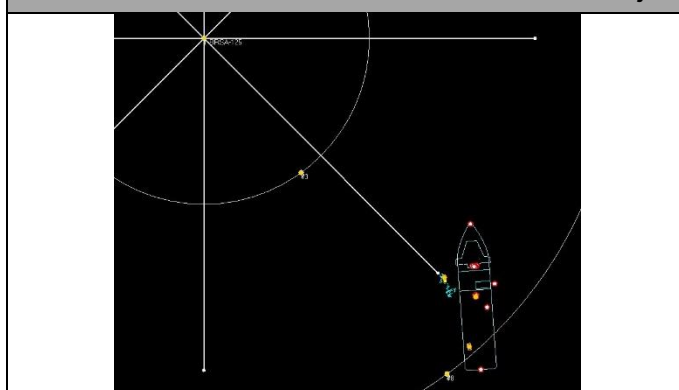
Picture 20 – Between Station 9 and 8 – Debris



Picture 21 – Between Station 9 and 8 – Unidentified Object



Picture 22 – Circular Track of 250m Radius End



Picture 23 – SE to NW Baseline Start – Plan View



Picture 24 – SE to NW Baseline Start



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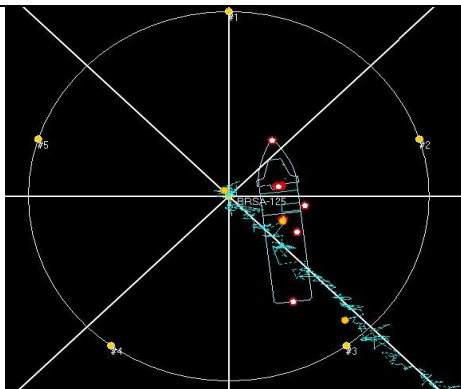
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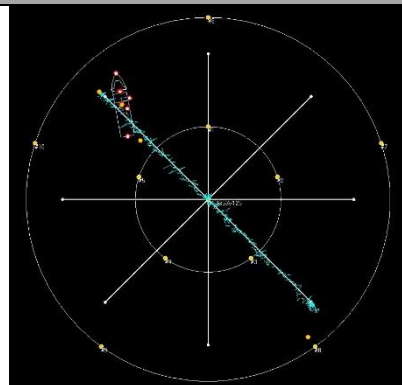
Picture 25 – 1-BRSA-125 – Plan View



Picture 26 – 1-BRSA-125 Location



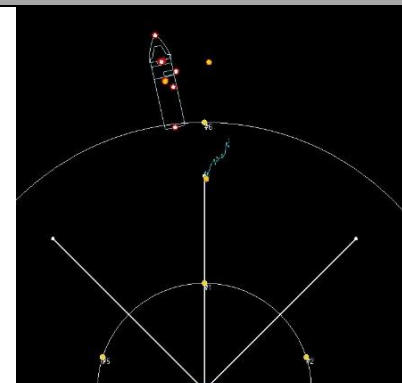
Picture 27 – Between 1-BRSA-125 x NW – Marine Life on Seabed



Picture 28 – SE to NW Baseline End – Plan View



Picture 29 – SE to NW Baseline End



Picture 30 – N to S Baseline Start – Plan View



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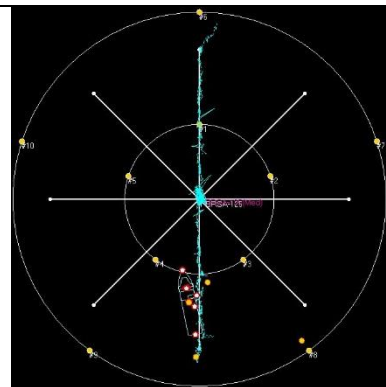
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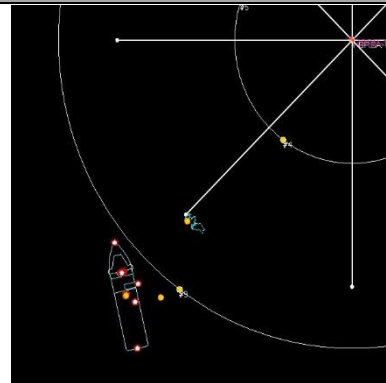
Picture 31 – N to S Baseline Start



Picture 32 – N to S Baseline End – Plan View



Picture 33 – N to S Baseline End



Picture 34 – SW to NE Baseline Start – Plan View



Picture 35 – SW to NE Baseline Start



Picture 36 – Between SW x 1-BRA-125 – Debris on Seafloor



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Picture 37 – Between SW x 1-BRA-125 – Debris on Seafloor



Picture 38 – Panoramic Well Head 1-BRSA-125



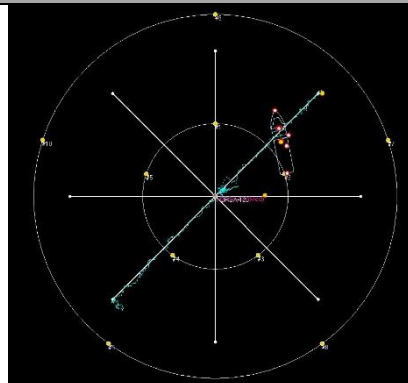
Picture 39 – Well Head 1-BRSA-125



Picture 40 – Detail Well Head 1-BRSA-125



Picture 41 – Between 1-BRA-125 x NE – Debris on Seafloor



Picture 42 – SW to NE Baseline End – Plan View



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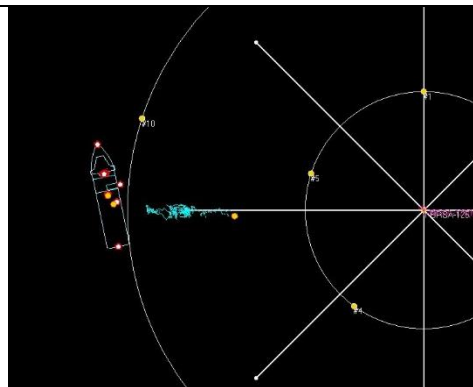
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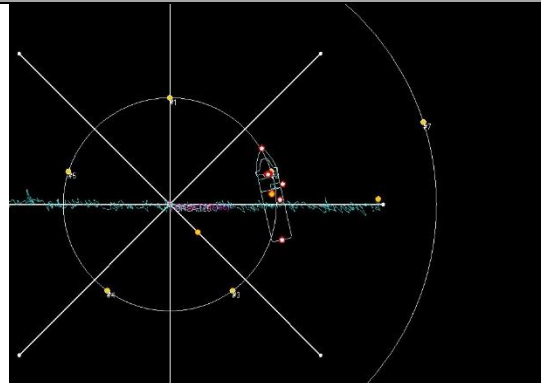
Picture 43 – SW to NE Baseline End



Picture 44 – W to E Baseline Start – Plan View



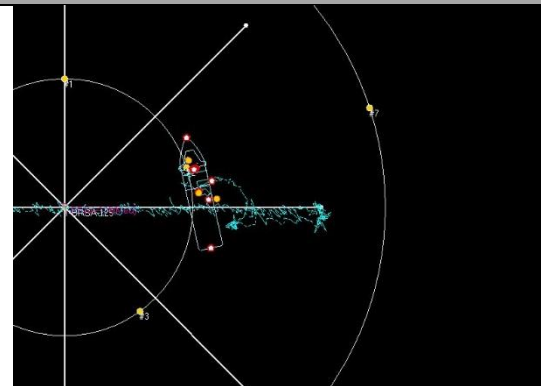
Picture 45 – W to E Baseline Start



Picture 46 – W to E Baseline End – Plan View



Picture 47 – W to E Baseline End – Seabed View



Picture 48 – Station #2 – Plan View



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R01

SERVICE REPORT

BLOCK C-M-541 – EBS - Station 1-BRSA-125-RJS

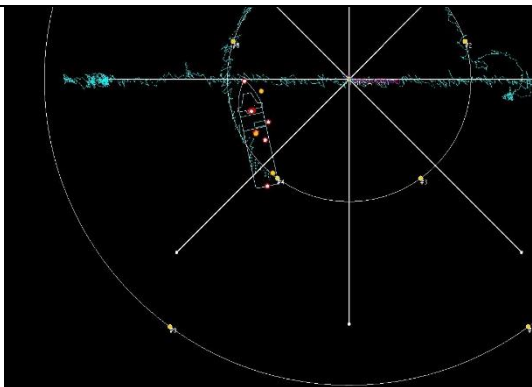
DATE:
27-03-2020

PSV Siem Giant

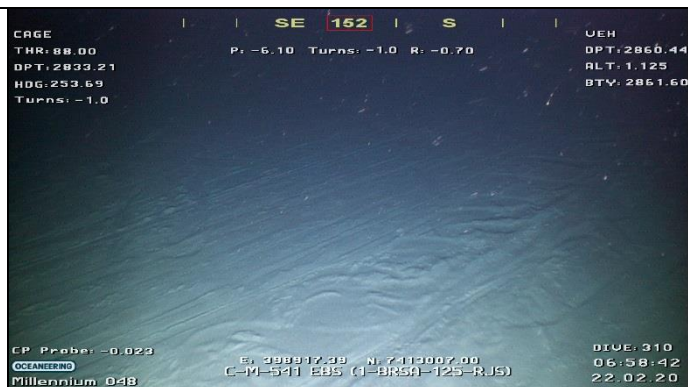
PAG: 20/24

MARINE PRODUCTION SYSTEMS DO BRASIL – AT SERVICE OF TOTAL E&P DO BRASIL LTDA.

ATTACHMENTS:01



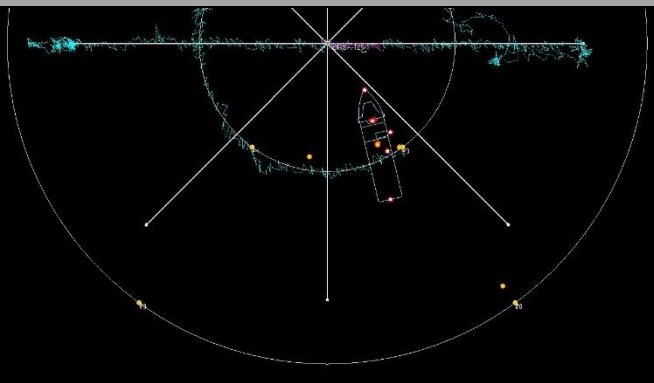
Picture 55 – Station #4 – Plan View



Picture 56 – Station #4 – Seabed View



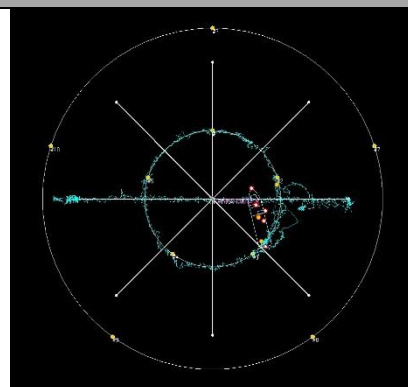
Picture 57 – Between Station #4 and #3 – Debris on Seafloor





Picture 58 – Station #3 – Plan View



Picture 59 – Station #3 – Seabed View





Picture 60 – End of Inspection

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6. CONCLUSION

- The EBS conducted at 1-BRSA-125 identified some areas of debris and marine life;
- The operations started on February 21th at 15h:50min, and considered completed at February 22th at 08h:51min.

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7. ATTACHMENTS

- 01 HD with the images, videos, report and other files of the operation:
 - Images of Operation (*.jpeg);
 - Videos of Operation (*.mpg);
 - Report (*.pdf);
 - JSEA and RA (*.pdf);
 - SVP files (*.usr, *.000).

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8. ACCEPTANCE

Gabriel Azzolini Oil - Survey Party Chief	_____ Signature	27/03/2020 _____ Date
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No CSR on board Total Representative – CSR	_____ Signature	_____ Date
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We Solve the Unsolvable.