



# **JOINT PROJECTS TEAM**

## ***STRUCTURES A & E DEVELOPMENT PROJECT NC41 BLOCK LIBYAN OFFSHORE***

### **Invitation for Pre-Qualification - Scope of Work**

# **RIG POSITIONING & BOTTOM SURVEY SERVICES**



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## 1. SCOPE OF DOCUMENT

Pre-Qualification tender is open for local and international vendors specializing in RIG POSITIONING & BOTTOM SURVEY Services and being strongly supported by professional crew are invited to register their interest to submit their document by providing the requested information as per following paragraphs.

### **DISCLAIMER:**

***All information specified in this document are considered by the Company to be accurate at the time of issue.***

***The Company does not, however, accept any liability for providing such information nor does it warrant its accuracy. They are estimates only and are not a guarantee of the volume of work.***

## 2. INFORMATION OF THE ACTIVITY

Mellitah Oil & Gas plans to drill 31 (thirty one) offshore development wells (subsea wet & dry tree wells) in structures A & E - block NC41.

**“A” Structure** is about 75 km from the Libyan coast, The target depth of the deepest well is expected to be around 2690 m. TVD, in a water depth about 95 – 105 m. It has been considered to pre-drill all the wells, then re-entry the same to be tied-back and completed with a work-over light rig working from the platform itself.

**“E” structure** is located in the NC41 Block around 31 km north east of the Sabratha Platform and about 110 km from the closest point on Libyan coast. The deepest well is expected to be approximately 2530 m, TVD, with surrounding water depth around 205 – 235 m, deviated/horizontal well type. Even in this development, the operations scenario envisages first pre-drilling campaign, then well re-entry, tie-back and completion with a work-over light rig once platform being installed.

The spud time of the first well estimate on September 2020, while the completion of subsea wells is expected on May 2024.

Company Operation Bases will be located in Malta and/or Tripoli Province.

## 3. SCOPE OF WORK

This document defines the requirements for A&E Structures Development Wells, Libyan Offshore NC41 Block, for the following Scope of Work:

### 3.1 Marine Well Site Survey Services

Acquisition of new Marine well site survey will be done to acquire updated supplemental data coverage for 2 km radius from wells center to assess the present seafloor rig positioning condition for both jackup rig / moored semisubmersible rig. The survey shall define but not be limited to the existing production sealines, submarine cables (control umbilical), and any other obstacles can impact the leg positioning and subsequent rig pre-loading (in case of jackup rig) and/or rig anchoring system (in case of moored semisubmersible rig).

A final survey report shall be requested which relative maps will be utilized for Rig Positioning and moving plan.

1. The final report shall contains the description and the survey results and relevant Map with:
  - a. Seabed Bathymetry and Morphology
  - b. Presence of Natural and Manmade objects and features
  - c. Shallow Stratigraphy
  - d. Well Locations Geographical Coordinates
2. The job will be accomplished by the utilization of the following tools:
  - a. Multi-beam Echo Sounders
  - b. Side-Scan Sonar
  - c. Sub Bottom Profilers
  - d. Magnetometer



### 3.2 Rig Positioning Services

Surface positioning is required for:

1. MODU Semisubmersible Drilling Unit to be positioned above of subsea drilling template and wells site location geographical coordinates
2. MODU Jackup Drilling Unit to be positioned above of subsea drilling template site location geographical coordinates
3. AHTS Vessels while moving and performing the anchor set and anchor recover and while of above of the geographical coordinate of each anchor

Number of system sets required shall cover rig positioning requirements for one jackup rig and one semisubmersible (one onboard the rig, one onboard the AHTS) even simultaneously.

## 4. MAIN DATA AND NOTIONAL GEOGRAPHICAL COORDINATES

All coordinates in the section below are referred to the following Topographic References:

Reference Meridian	Greenwich
Projection	Zone 33-UTM
Datum	ED 50
Spheroid	INT 24

### 4.1 Structure “A”

All Structure “A” development wells (8 wells) are launched from a subsea template installed on sea floor prior the positioning of the drilling rig.

#### ***Structure “A” Pre-Drilling Template Surface Geographical Coordinates***

Item	Longitude	Latitude	x [m]	y [m]
Structure “A” Pre-Drilling Template	12° 23' 10,060 E	33° 30' 24.835 N	257,185.00	3,710,600.00

### 4.2 Structure “E”

Structure “E” development wells are both drilled from a subsea template (18 wells) than drilled and completed “stand-alone” as subsea wells (5 wells)

#### ***Structure “E” Pre-Drilling Template and Subsea Wells Surface Geographical Coordinates***

Item	Longitude	Latitude	x [m]	y [m]
Structure “E” Pre-Drilling Template	12° 58' 53.065 E	33° 49' 29.513 N	313,183.00	3,744,628.00
EN01 Subsea Well	12° 59' 28.155 E	33° 53' 45.554 N	314,239.00	3,752,498.00
EN02 Subsea Well	12° 59' 58.823 E	33° 53' 25.765 N	315,015.00	3,751,873.00
EN03 Subsea Well	12° 58' 51.006 E	33° 53' 6.546 N	313,261.00	3,751,315.00
EN04 Subsea Well	12° 59' 39.772 E	33° 52' 46.600 N	314,502.00	3,750,676.00
EW01 Subsea Well	12° 49' 37.661 E	33° 54' 13.764 N	299,087.00	3,753,676.00



## 5. SUMMARY OF PROJECT AND LOGISTIC REQUIREMENTS

<b>Operations Commencement:</b>	<u>Structure "A"</u> : March 2021	
	<u>Structure "E"</u> : September 2020	
<b>Water Depth at operations area (to be confirmed):</b>	<u>Structure "A"</u> : 95 m ssl	
	<u>Structure "E"</u> : Platform Wells: 218 m ssl	Subsea Cluster: 192 m
<b>Drilling Rigs:</b>	<u>Structure "A"</u> : TBN	
	<u>Structure "E"</u> : TBN	
<b>COMPANY'S Logistics Bases:</b>	MedServ Base (Malta Freeport) – Malta Busetta Port, Tripoli – Malta	
<b>Distance Logistics Bases to Rig Site (nautical miles):</b>	<u>Structure "A"</u> Tripoli: 55 nm      Malta: 175 nm	
	<u>Structure "E"</u> Tripoli: 57 nm      Malta: 142 nm	
<b>COMPANY'S Heliport Locations:</b>	Luqa Airport – Malta Mitiga Airport – Tripoli, Libya	
	<u>Structure "A"</u> Mitiga: 102 km      Luqa: 323 km	
<b>Distance from Heliports to Rig Site (kilometres):</b>	<u>Structure "E"</u> Mitiga: 106 km      Luqa: 263 km	
	<u>Tripoli Offices:</u> Dat El Imad Complex Tower-1 9 <sup>th</sup> Floor P.O. Box 91651 Tripoli, Libya  <u>Malta Offices:</u> Medserv Marine Base Malta Freeport Port of Marsaxlokk Birzebbugia BBG3011, Malta	
<b>COMPANY'S Planned Operations Office Location:</b>		