

EQUIPMENT DETAILS

NO	EQUIPMENT	DESCRIPTION	QUANTITY
A	<i>MOORING SYSTEM</i>		
A.1	Anchor Windlasses	Quantity Make - NATIONAL Model - D-505-E Motors per winch - 1 Motor make - GENERAL ELECTRIC Total power per Windlass - 800 (hp)	4 (Double Windlasses)
1.1	Pulling rated capacity	Maximum - 195 t (430,000 lb) Stalling load - 235 t (520,000 lb)	
1.2	Speed rating	Maximum speed - 13.71 m/min(45 ft/min)	
1.3	Braking system	Wildcat brake - 129 t (285,000 lb) Motor brake -188 t (415,000 lb) Brake static holding capacity - 526 t (1,160,000 lb) Both brakes (motor brake + wildcat) engaged	
1.4	Control location	Yes	
1.5	Emergency release	Quantity emergency release system, with independent power source release button from Control room	
A.2	Fairleads	Quantity Make -PUSNES Chain size - 3 [in]	8
A.3	Anchors		
3.1	<i>Primary Anchors</i>	Quantity Make - BALT Type - Balt LWT Weight - 20.41 t (45,000 lb)	5

		Quantity Make - VRYHOF Type - Stevpris Weight - 11.80 t (26.000 lb)	3
3.2	<i>Spare Anchors</i>	Quantity Make - BALT Type - Balt LWT Weight - 20.41 t (45.000 lb)	2
3.3	<i>Piggy back Anchors</i>	Quantity Make - BALT Type - Balt LWT Weight - 15.87 t (35.000 lb)	1
		Quantity Make - BALT Type - Balt LWT Weight - 13.61 t (30.000 lb)	1
A.4	Anchors lines		
4.1	Chain	Quantity Type - 4lines grade K4 and 3 lines grade ORQ 1 line grade K4 + ORQ Diameter - 76 mm (3 in) Weight per unit length - 132.50 kg/m (89 lb/ft) Minimum Breaking Load - 614,000 kg (1,353.640 lb) Minumum Length - 1,174 m (3.853 ft)	8
A.5	Anchor line running & retrieval system		
5.1	Pennant lines	Quantity Length - 60.96 (200 ft) Diameter - 76.2 (3 in)	8
5.2	Chain chaser	Quantity Type - Permanent eye chain chaser for 3 in chain	8
B	CRANES HOISTS AND MATERIAL HANDLING		
B.1	Main Cranes	Quantity Make - NATIONAL Model - OS-435	2

		<p>Location - Port side & Starboard side Type - Diesel-Hydraulic Diesel engine not equipped with spark arrestor Boom length - 36.57 m (120 ft) Load @ minimum radius - 50 t @ 9.8 m (110.230lb @ 32 ft) Load @ maximum radius - 11.70 t @ 36.57 m (25,790 lb @ 120 ft) Whip line capacity - 11.70 t @ 36.57 m (15.500 lb @ 120 ft) Automatic brake - yes Safety latch on hook - yes Crown saver (limit switch) - MIPEG 2000 – RSI (Safety Boom Device) Boom illumination - yes Standards (Edition required) - API 2C -2nd edition</p>	
B.2	Forklift	<p>Quantity Make - NISSAN Model - GQO2L25W Type - Electric Rated capacity - 2.5 t (5.512 lb) Hazardous area rating - Electric EX</p>	1
B.3	Overhead / Gantry cranes Moonpool overhead cranes	<p>Quantity Make - MIKO-OILFIELD SERVICES Model - Twin overhead crane Main Hoist Rated capacity - 62.5 t each (137.789 lb) Auxiliary Hoist Rated capacity - 5 t each (11.020 lb)</p>	2
B.4	Xmas tree carrier - Main deck	<p>Quantity Make - HOULDER OFFSHORE ENGINEERING Model - <i>Drive by hydraulic jacks</i> Rated capacity - 50 t (110.231 lb) Length – Width - 3.16 m x 3.16 m (10.36 x 10.36 ft)</p>	2
B.5	Hoist winches / Personnel baskets		
5.1	<i>Rig floor winches [non man-riding]</i>	<p>Quantity Make - INGERSOLL - RAND Type - Air winch Model - F5A-24-AK1GKN2 Line pull (first layer) - 4.54 t (10.000 lb) Wire diameter - 19 mm (3/4 in)</p>	1

		<p>Automatic brake - yes Automatic spooling - no</p> <p>Quantity Make - INGERSOLL - RAND Type - Air winch Model - Force 5 - FA5A -24XK1J245 Line pull (first layer) - 4.54 t (10.000 lb) Wire diameter - 19 mm (3/4 in) Automatic brake -yes Automatic spooling - no</p>	
5.2	<i>Rig floor man-riding winches</i>	<p>Quantity Make - INGERSOLL - RAND Type - Air winch Model - FA150KG-MR12-I-M2 Line pull (first layer) - 0.15 t (331 lb) Wire diameter - 10 mm (3/8 in) Non twist wire - yes Automatic brake - yes Automatic spooling - no Certified for man-riding - yes</p> <p>Quantity Make - INGERSOLL - RAND Type - Air winch Model - FA150KG1-MR12-1-EH Line pull (first layer) - 0.15 t (331 lb) Wire diameter - 10 mm (3/8 in) Non twist wire - yes Automatic brake - yes Automatic spooling - no Certified for man-riding - yes</p>	1
5.3	<i>Cellar deck winches [non man-riding]</i>	<p>Quantity Make - INGERSOLL - RAND Type - Air winch for Guide & Pod lines Model - ORD 100A36 Line pull (first layer) - 4.53 t (10.000 lb) Wire diameter - 19 mm (3/4 in) Automatic brake - no</p>	6

		<p>Automatic spooling - no</p> <p>Quantity Make - INGERSOLL - RAND Type - Utility Air Winch Model - K6UL-AB Line pull (first layer) - 4.53 t (10.000 lb) Wire diameter - 19 mm (3/4 in) Automatic brake - yes Automatic spooling - no</p> <p>Quantity Make - INGERSOLL - RAND Type - Utility Air Winch Model - FA-5MR24 Line pull (first layer) - 2.2 t (4.850 lb) Wire diameter - 16 mm (5/8 in) Automatic brake - no Automatic spooling - no</p>	<p>2</p> <p>1</p>
5.4	<i>Cellar deck man-riding winches</i>	<p>Quantity Make - INGERSOLL - RAND Type - Air Winch Model - FA150KG-MR12-I-M2 Line pull (first layer) - 0.15 t (331 lb) Wire diameter - 10 mm (3/8 in) Non twist wire - yes Automatic brake - yes Automatic spooling - no Certified for man-riding - yes</p> <p>Quantity Make - INGERSOLL - RAND Type - Air Winch Model - FA150KG-MP12-1-FM Line pull (first layer) - 0.15 t (331 lb) Wire diameter - 10 mm (3/8 in) Non twist wire - yes Automatic brake - yes Automatic spooling - no Certified for man-riding - yes</p>	<p>1</p> <p>1</p>

5.5	<i>Retrieving bridle winches</i>	Quantity Make - INGERSOLL - RAND Type - Air Winch Model - 35 UW 962 Line pull (first layer) - 9.07 t (20.000 lb) Wire diameter - 28 mm (1 1/8 in)	1
C	AUXILIARY EQUIPMENT		
C.1	Water maker	Quantity Make - ALFA LAVAL Type - Distiller, recovering heat from diesel engines cooling circuit Model - DPU-36-C100/125 Production capacity (total) - 50 (m3/d) (314 bbl/d)	2
C.2	Welding sets	Quantity Make - UNITOR Model - UWI-400 Type - Electric Quantity Make - Miller Model - Gold Star 752 Type - Electric Quantity Make - LINCOLM Model - Vantage 400 Type - Diesel powered	1 1 3
C.3	High pressure cleaner	Quantity Working pressure - 207 bar (3,000psi) Hot water - yes Steam - no Quantity Make - GRACO Model - H07B Working pressure - 193 bar (2,800psi) Hot water - no Steam - no	1 1

		<p>Quantity Make - GRACO Model - Pumpm Dura-Flo 1800 Working pressure - 193 bar (2,800psi) Hot water - no Steam - no</p> <p>Quantity Make - HYDROBLAST UNIT ASIA WATERJET EQUIPMENT Model - FZCO Working pressure - 2,757 bar (40,000 psi) Hot water - no Steam - no</p>	<p>1 (dedicated to the cleaning of the Shale Shaker screens)</p> <p>1</p>
C.4	Personnel transfer basket	<p>Quantity Make - REFLEX MARINE Type - FROG Marine personnel transfer capsule Model - FS-01 Rated capacity (SWL) - 330 kg (728lbs) Maximum number of passenger - 3 or 1 seated + 1 stretcher</p> <p>Quantity Make - SOLLAXNEWS Type - Billy Pugh Model - PSS-4P-N</p>	<p>1</p> <p>2</p>
D	DERRICK AND SUBSTRUCTURE		
D.1	Racking Arm/ Pipe handling system	<p>Quantity Make - VICTORIA MACHINE WORKS Type - HYDRAULIC Model - RJT-33C Tubular range - Drilling riser Maximum push/pull load - 381 kg (840lb) Maximum out-reach (min-max) - 2.48 - 6.98m (8.13 - 22.9 ft) Stewing - 225 Location - Drill floor</p>	1
1.2	<i>Derrick Man's Cabin</i>	<p>Quantity Make - MH Equipment operated from this cabin - Racking system</p>	1

1.3	Mouse hole	Rated capacity - 1.00 t (2,200lb) Watertight - yes Shock absorber - yes	1
D.2	Drawworks	Make – NATIONAL Model - 1625-DE Input power rating - 3.000 hp Drum grooved - yes Drilling line diameter - 38.10mm (1 1/2 in) Make up cathead type - NATIONAL Type A Break out cathead type - NATIONAL Type A Quantity Motors Make - GENERAL ELECTRIC MODEL - GE-752 R5A Type - Electric DC motor Continuous rated power - 800 hp	3
2.1	Crown block safety device	Quantity Model CBS Crown-0-Matic device Quantity I.D.R.M safety device by proximity sensors	1
2.2	Independent fresh cooling system	Quantity HALCO cooling system including: Heat exchanger : plate type. - Fresh water tank - Halco 2500 Supreme pump 3 in x 2 in 2 12 in. Impeller driven by 2 MARATHON motor 30 hp, 480 V, 60 HZ.	1 2
2.3	Maximum hoisting capacities	12 lines 567 t (1,250.000 lb) 10 lines - 487 t (1,075.000 lb) 8 lines - 399 t (880.000 lb) Design standards (Edition required)	
E	DERRICK HOISTING EQUIPMENT		
E.1	Crown block	Quantity Make - CONTINENTAL-EMSCO Max.static hook load - 650 ton Sheaves Diameter - 60 in	7 + 2 for fast line

		Sheaved grooved for line - 38.10mm (1 1/2 in) Design standards (Edition required)	
E.2	Traveling block	Quantity Make - NATIONAL Model - 760-H-650 Rated capacity - 650 ton Sheaves Diameter - 60 in Sheaved grooved for line - 38.10mm (1 1/2 in) Design standards (Edition required)	7
E.3	Heave motion compensator	Make - RUCKER-SHAFFER Type - Passive drill string compensator Model - 600 SL-25 Stroke - 7.62m (25ft) Rated capacity - Locked position - 600 ton (1,200.000 lb) - Open position - 300 ton (600.000 lb) Quantity Control panel - Make - RUCKER-SHAFFER	1
E.4	<i>Dedicated Air Pressure Vessel</i>	Quantity Working pressure - 151 bar (2,200 psi) Capacity (each) - 1,041L (275 gal) Quantity Working Pressure - 165 bar (2,400 psi) Capacity (each) - 1,181L (312 gal)	6 3
F	Rotating System		
F.1	Master bushing / Adapter bushing	Quantity Make - NATIONAL Type - Hinged	1
F.2	Adapter bushing	Quantity Make - NATIONAL Type - For C-495 Rotary	1
F.3	Top drive	Make - NATIONAL OILWELL VARCO Model - TDS-4H Type - DC Hoisting rated capacity - 650 ton- 3.000 hp Soft Torque system -no Quantity Motor	1

		<ul style="list-style-type: none"> - Make - GE 752 - Type - High Torque shunt - Continuous rated power - 1,100 hp Two speed gear box - 2 Maximum continuous torque - [lb.ft@rpm] 45,500 @ 120 Torque at maximum speed - [lb.ft@rpm] 29,000 @ 200 Swivel Make -NATIONAL Model - P650 Working pressure - 5,000 psi Wire line entry - Yes, 2 in NPT IBOP working pressure - 10,000 psi 	
3.1	<i>Pipe handler</i>	<ul style="list-style-type: none"> Model - PH-85 Tool-joint range - 4 5/8 to 8 1/4 in Maximum breakout torque - 85,000 ft.lb 	
G	Power Supply System		
G.1	Rig Power Plant	<ul style="list-style-type: none"> Quantity Number of engine rooms 	1
1.1	<i>Diesel engine</i>	<ul style="list-style-type: none"> Quantity Make - BERGEN Model - KVGB-12 Output - 2,200 hp Rotation speed - 900 rpm Equipped with spark arrestor - no 	4
1.2	<i>AC Generator</i>	<ul style="list-style-type: none"> Quantity Make - AEG Model - DKL 633/08 Continuous power rating [kVA] 1,910 Current [A] 1,838 Power factor - 0.8 Rotation speed [rpm] 900 Frequency [Hz] 60 Voltage [V] 600 Number of phase - 3 	4
1.3	<i>SCR system</i>	<ul style="list-style-type: none"> Quantity Make - AEG Maximum continuous current [A] 920 	12

		<p>Output [V] 0 to 750</p> <p>Quantity</p> <p>Make - NATIONAL OILWELL VARCO</p> <p>Maximum continuous current [A] 600</p> <p>Output [V] 0 to 750</p>	Two (2) – Dedicated for Top Drive
G.2	<i>Transformer system</i>	<p>Quantity</p> <p>Continuous power [each] [kVA] 1,200</p> <p>Input voltage – out put voltage [V] 600 - 440</p> <p>Frequency [Hz] 60</p> <p>Quantity</p> <p>Continuous power [each] [kVA]</p> <p>Input voltage – out put voltage [V] 440 – 220</p> <p>Frequency [Hz] 60</p> <p>Quantity</p> <p>Continuous power [each] [kVA]</p> <p>Input voltage – out put voltage [V] 220 - 110</p> <p>Frequency [Hz] 60</p>	2 2 1
G.3	<i>Emergency shutdown</i>	<p>Number of emergency shutdown</p> <p>System shutdown - Drilling equipment Drawworks, Rotation, mud pumps Location - Driller's cabin</p> <p>Number of emergency shutdown</p> <p>System shutdown - Drilling equipment Drawworks, Rotation, mud pumps Location - Pilot house</p> <p>Number of emergency shutdown</p> <p>System shutdown - Drilling equipment Drawworks, Rotation, mud pumps Location - Control room</p> <p>Note: At the Control Room, Engines can be individually shut down by push button. The ESD of the engines can be done manually by automatic closing fuel valve from the</p>	1 1 1

		Daily tank (control panel located outside the engine room). There are not a complete system to shut down AC and DC	
G.4	Compressed air system		
4.1	High pressure air system	Working pressure [bar] 207 (3,000 psi)	
1.1	Compressor	Quantity - Make - COMPAIR REAVELL Model - 5415 Rated capacity [Sm ³ /min] 1.03 (36.49 SCF/min)	1
		Quantity - Make - COMPAIR REAVELL Model - 5417 Rated capacity [Sm ³ /min] 1.03 (36.49 SCF/min)	2
G.5	Rig air system		
5.1	Compressor	Quantity - Make - QUINCY Model - QSI-750 Rated capacity [Sm ³ /min] 23.53 (831 SCF/min)	3
5.2	Air dryer	Quantity - Make - DOMNICK HUNTER PNEUDRI Model - DX-110 Rated capacity [Sm ³ /min] 25 (891 SCF/min)	3
5.3	Air pressure vessels	Quantity - Capacity [L] 3,500 (123.6 ft ³)	1
		Quantity - Capacity [L] 2,400 (84.76 ft ³)	1

		<p>Starting method - Automatic starting on black out: engine starts with electrical starter on a 24 V battery set. Manual start is made either: with air starter, or electrical starter with spare battery set.</p> <p>Starting devices - Electrical starter & Air starter</p> <p>Maximum operating angle [°] As per Rules.</p> <p>Equipped with spark arrestor - No</p>	
H.2	<i>Generator</i>	<p>Quantity - 1</p> <p>Make - NKK</p> <p>Model - E7215</p> <p>Continuous power rating [kVA] 500</p> <p>Current [A] 600</p> <p>Power factor - 0.8</p> <p>Rotation speed [rpm] 1,800</p> <p>Frequency [Hz] 60</p> <p>Voltage [V] 480</p> <p>Number of phase - 3</p> <p>List of equipments fed -Two (2) Fire pumps (# 1 & # 3) Two (2) Ballast pumps Two (2) Ballast hydraulic power packs Secondary Ballast pump (# 1 & # 2) One (1) Mud mixing pump (# 1) B.O.P. HPU pump Four (4) pre lube pumps for main engines PS & SB bilge pumps Oily water separator Windlass chain stopper Air start compressor lower AC cooling pump Fuel transfer pump stb</p>	1
H.3	<i>Hydraulic Power Unit</i>	<p>Make - HYDRON HYDRAULICS LTD</p> <p>Maximum working pressure- [bar] 200 (2,900 psi)</p> <p>Tank volume [Gal] 1,057</p> <p>Maximum flow rate [l/min] 1,296 (342 gpm)</p> <p>Number of hydraulic pump -</p> <p>Motor – rated power (each) [kW] 110</p> <p>Users - Top drive, Iron roughneck, racking system, BOP &</p>	4

		<p>Xmas tree transporters, BOP overhead cranes, BOP guidance system</p> <p>Make - DRILCO Model - E, Type 1 Maximum working pressure [bar] 172 (2,500 psi) Tank volume [Gal] 114 Maximum flow rate @ max pressure [l/min] 15.1 (4 gpm) Number of hydraulic pump - Motor – rated power (each) [hp] 10 Users -Ezy torque</p> <p>Make - VICTORIA Maximum working pressure [bar] 138 (2,000 psi) Maximum flow rate @ max pressure [l/min] 162 (43 gpm) Number of hydraulic pump - Motor – rated power (each) [hp] 50 Users - Victoria arm</p>	<p>1</p> <p>1</p>
I	Handling Tools		
I.1	Drill pipe elevator	<p>Quantity -</p> <p>Drill pipe size [in] 5 ½</p> <p>Make - VARCO-BJ</p> <p>Type - GG</p> <p>Model - Air operated</p> <p>Rated capacity [ton] 350</p> <p>Standards - API SPEC 8C – PSL1</p> <p>Quantity -</p> <p>Drill pipe size [in] 5 ½</p> <p>Make - VARCO-BJ</p> <p>Type - GG</p> <p>Model - Manual operated</p> <p>Rated capacity [ton] 350</p> <p>Standards - API SPEC 8C – PSL1</p> <p>Quantity -</p> <p>Drill pipe size [in] 5</p> <p>Make - VARCO-BJ</p> <p>Type - HGG</p> <p>Model - Manual operated</p> <p>Rated capacity [ton] 500</p>	<p>2</p> <p>1</p> <p>1</p>

	Standards - API SPEC 8C – PSL1	
	Quantity -	2
	Drill pipe size [in] 5	
	Make - VARCO-BJ	
	Type - GG	
	Model - Air operated	
	Rated capacity [ton] 350	
	Standards - API SPEC 8C – PSL1	
	Quantity -	1
	Drill pipe size [in] 5	
	Make - VARCO-BJ	
	Type - GG	
	Model - Manual operated	
	Rated capacity [ton] 350	
	Standards - API SPEC 8C – PSL1	
	Quantity -	1
	Drill pipe size [in] 3 ½	
	Make - JOY-WEB WILSON	
	Type - T	
	Model - Manual operated	
	Rated capacity [ton] 350	
	Standards - API SPEC 8C – PSL1	
	Quantity -	1
	Drill pipe size [in] 3 ½	
	Make - VARCO-BJ	
	Type - MGG	
	Model - air operated	
	Rated capacity [ton] 250	
	Standards - API SPEC 8C – PSL1	
	Quantity -	2
	Drill pipe size [in] 3 ½	
	Make - VARCO-BJ	
	Type - MGG	
	Model - Manual operated	
	Rated capacity [ton] 250	
	Standards - API SPEC 8C – PSL1	

		Quantity - Tubular size [in] 5 ½ - 7 Make - VARCO Model - DCS-R	1
		Quantity - Tubular size [in] 4 – 4 7/8 Make - VARCO Model - DCS-S	1
I.5	Drill collar safety clamp	Quantity - Make - VARCO Model - MP-R Tubular range [in] 4 ½ - 10 ½	2
I.7	Drill collar lifting sub	Quantity - Drill collar O.D. [in] 9 ½ Connection type - 7 5/8 Reg	5
		Quantity - Drill collar O.D. [in] 8 ¾ Connection type - 6 5/8 Reg	6
		Quantity - Drill collar O.D. [in] 6 ¾ & 6 ½ Connection type - NC-50	6
		Quantity - Drill collar O.D. [in] 6 ½ Connection type - NC-46	6
		Quantity - Drill collar O.D. [in] 4 ¾ Connection type - NC-38	4
I.8	Tricones bit breaker / Tricone bit gauge	Bit size [in] 26 Bit breaker – Quantity - Bit Gauge – Quantity -	1 1
		Bit size [in] 17 ½ Bit breaker – Quantity -	1

		<p>Bit Gauge – Quantity -</p> <p>Bit size [in] 12 ¼</p> <p>Bit breaker – Quantity -</p> <p>Bit Gauge – Quantity -</p> <p>Bit size [in] 8 ½</p> <p>Bit breaker – Quantity -</p> <p>Bit Gauge – Quantity -</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>
I.9	<i>Elevator links</i>	<p>Quantity of set -</p> <p>Make - VARCO</p> <p>Size [in] 2 ¾</p> <p>Length [in] 72</p> <p>Rated capacity [ton] 350</p> <p>Standards -</p> <p>Quantity of set -</p> <p>Make - VARCO</p> <p>Size [in] 3 ½</p> <p>Length [in] 144</p> <p>Rated capacity [ton] 500</p> <p>Standards -</p> <p>Quantity of set -</p> <p>Make - M-H</p> <p>Size [in] 3 ½</p> <p>Length [in] 144</p> <p>Rated capacity [ton] 500</p> <p>Standards -</p> <p>Note: This set of elevator links are dedicated to casing handling (These links are designed for a special spider, they cannot be used with any other elevator.)</p>	<p>1</p> <p>1</p> <p>1</p>
I.10	<i>Drill pipe spinner</i>	<p>Quantity -</p> <p>Make - VARCO</p> <p>Type - Pneumatic</p> <p>Model - SSW-40</p> <p>Drill pipe range [in] 3 ½ - 9 ½</p>	<p>1</p>
I.11	<i>Mud saver bucket</i>	<p>Quantity -</p> <p>Make - SUBDRILL</p> <p>Model - MS-V3A</p>	<p>1</p>

		Drill pipe size - 5 ½ - 5 - 3 ½ Quantity - Make - OTECO Drill pipe size - 5 ½ - 5 - 3 ½	1
I.12	<i>Hydraulic cathead</i>	Quantity - Make - DRILCO Model - Ezy-Torq type 1 model E Maximum line pull [lb] 33,300 @ 2,500 psi Working pressure [psi] 2,500	1
I.13	<i>Rotary Tong</i>	Quantity - Make - VARCO-BJ Model - HT-100 Jaw Range [in] 4 - 15 Torque rating [ft.lb] 100,000 Standards - API SPEC 7K Quantity - Make - VARCO-BJ Model - HT-65 Jaw Range [in] 3 ½ - 13 ¾ Torque rating [ft.lb] 65,000 Standards - API SPEC 7K Quantity - Make - VARCO-BJ Model - HT-50 Lever (short / Long) - Long Jaw Range [in] 13 ½ - 25 ½ Torque rating [ft.lb] 55,000 Standards - API SPEC 7K Quantity - Make - BJ Model - C Lever (short / Long) - Long Jaw Range [in] 2 ¾ - 5 ¼	2 2 2

		<p>Torque rating [ft.lb] 35,000 Standards - API SPEC 7K</p> <p>Quantity - Make - WEB-WILSON Model - AAX Jaw</p> <p>Range [in] 30 Torque rating [ft.lb] 25,000 Standards - API SPEC 7K</p>	2
I.14	Manual tubing tong	<p>Quantity - Make - CAVINS-BJ Model - MS Jaw</p> <p>Range [in] 1.9 – 4 ½ Torque rating [ft.lb] 6,500 Standards (Edition required)</p>	2
I.15	Power tubing tong	<p>Quantity - Make - ECKEL Model - 5.5 Tubing range [in] 2 1/16 – 5 ½ Maximum output torque [ft.lb] 2,800 on high gear and 12,000 on low gear Torque indicator - Back-up arm - Yes Jaw assemblies [in] 3 ½</p>	1
I.16	Iron roughneck	<p>Make - MARITIME-HYDRAILIC Model - MH1898 BC25 MK-1 Tubular range [in] 3 ½ - 9 ½ Maximum make-up torque [kN.m] 13,825 (100,000 ft.lb) Maximum break-out torque [kN.m] 17,281 (125,000 ft.lb)</p>	1
I. 17	FISHING EQUIPMENT		
I.18	Overshot	<p>Quantity - Make - BOWEN Type - FS Series - 150 Overshot O.D. [in] 11 ¾ Overshot guide O.D. [in] 11 ¾ standard guide Extension sub length [in] 32</p>	1

	<p>Lipped guide - Two (2) Lipped size O.D. [in] 15 & 21 oversized guide Maximum catch size with spiral grapple [in] 10 ¹/₈ Spiral grapple & grapple control - 9 ¹/₂ Maximum catch size with basket grapple [in] 9 ³/₈ Basket grapple & mill control - 8 ¹/₄, 8 ¹/₈, 8, 7 ³/₄, 7 ¹/₄, 5 ¹/₂", 5 Top sub connection type -</p> <p>Quantity - Make - BOWEN Type - FS Series - 150 Overshot O.D. [in] 11 ³/₈ Overshot guide O.D. [in] 11 ³/₈ standard guide Extension sub length [in] 42 Lipped guide - Two (2) Lipped size O.D. [in] 15 & 21 oversized guide Maximum catch size with spiral grapple [in] 9 Spiral grapple & grapple control - 9 ¹/₂ - 9 ³/₈ Maximum catch size with basket grapple [in] 8 Basket grapple & mill control - 8 ¹/₄, 8 ³/₈, 8 ¹/₈, 8, 6 ⁵/₈, 6 ¹/₂, 5 Top sub connection type - 6 ⁵/₈Reg Box</p> <p>Quantity - Make - BOWEN Type - FS Series - 150 Overshot O.D. [in] 10 ¹/₈ Overshot guide O.D. [in] 10 ¹/₈ standard guide Extension sub length [in] 30 & 48 Lipped guide - Two (2) Lipped size O.D. [in] 16 & 21 oversized guide Maximum catch size with spiral grapple [in] 8 ¹/₂ Spiral grapple & grapple control - 8 ¹/₈, 8, 7 ⁷/₈ Maximum catch size with basket grapple [in] 7 ³/₄ Basket grapple & mill control - 6 ³/₈, 6 ¹/₄, 5 ³/₄, 5 Top sub connection type - 6 ⁵/₈Reg Box</p> <p>Quantity - Make - BOWEN</p>	<p>1</p> <p>1</p> <p>1</p>
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	<p>Type - FS Series - 150 Overshot O.D. [in] 8 1/8 Overshot guide O.D. [in] 8 1/8 standard guide Extension sub length [in] 36 Lipped guide - One (1) Lipped size O.D. [in] 11 oversized guide Maximum catch size with spiral grapple [in] 6 1/2 Spiral grapple & grapple control - 6 1/2, 6 Maximum catch size with basket grapple [in] 5 3/4 Basket grapple & mill control - 5 1/2, 5 Top sub connection type - 4 1/2 IF</p> <p>Quantity - Make - Type - SH Series - 150 Overshot O.D. [in] 8 1/4 Overshot guide O.D. [in] 8 1/4 standard guide Extension sub length [in] None Lipped guide - None Lipped size O.D. [in] N/A Maximum catch size with spiral grapple [in] 7 1/8 Spiral grapple & grapple control - 7 1/8, 7 1/16 Maximum catch size with basket grapple [in] 6 1/2 Basket grapple & mill control - None Top sub connection type - 4 1/2 IF</p> <p>Quantity - Make - BOWEN Type - SH Series - 150 Overshot O.D. [in] 7 7/8 in; OD dressed in 7 5/8 in. OD Overshot guide O.D. [in] 7 5/8 standard guide Extension sub length [in] 36 & 42 Lipped guide - None Lipped size O.D. [in] N/A Maximum catch size with spiral grapple [in] 6 1/2 Spiral grapple & grapple control - 6 1/2, 6 3/8, 6 1/4 Maximum catch size with basket grapple [in] 5 7/8 Basket grapple & mill control - 5 Top sub connection type -</p>	<p>1</p> <p>1</p> <p>1</p>
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		<p>Quantity -</p> <p>Make - BOWEN</p> <p>Type - FS</p> <p>Series - 150</p> <p>Overshot O.D. [in] 5 ⁵/₈</p> <p>To catch size of tubular [in] None</p> <p>Overshot guide O.D. [in] None</p> <p>Extension sub length [in] 36</p> <p>Lipped guide - One (1)</p> <p>Lipped size O.D. [in] N/A</p> <p>Maximum catch size with spiral grapple [in] 4 ⁵/₈</p> <p>Spiral grapple & grapple control - 4 ³/₄, 4 ⁵/₈</p> <p>Maximum catch size with basket grapple [in] 4 ¹/₈</p> <p>Basket grapple & mill control - 3 ¹³/₁₆, 3 ¹/₂, 3 ¹/₁₆</p> <p>Top sub connection type - NC-38</p> <p>Quantity -</p> <p>Make -</p> <p>Type - SH</p> <p>Series - 150</p> <p>Overshot O.D. [in] 5 ⁵/₈</p> <p>To catch size of tubular [in] None</p> <p>Overshot guide O.D. [in] 5 ⁵/₈ standard guide</p> <p>Extension sub length [in] None</p> <p>Lipped guide - None</p> <p>Maximum catch size with spiral grapple [in] 4 ³/₄</p> <p>Spiral grapple & grapple control - 4 ³/₄, 4 ⁵/₈</p> <p>Maximum catch size with basket grapple [in] 4 ¹/₄</p> <p>Basket grapple & mill control - 3 ¹³/₁₆, 3 ¹/₂, 3 ¹/₁₆</p> <p>Top sub connection type - NC-38</p>	1
I.19	Hydraulic fishing jar	<p>Quantity -</p> <p>Make - BOWEN</p> <p>Type - Z</p> <p>Body O.D. [in] 6 ¹/₂</p> <p>Minimum I.D. [in] 2 ⁵/₁₆</p> <p>Stroke [in] 14 ³/₈</p> <p>Connection type - NC-50 pin x box</p>	1
I.20	Junk basket (reverse circulation)	<p>Quantity -</p> <p>Make - BOWEN</p> <p>Body O.D. [in] 14 ⁷/₈</p>	1

		<p>Connection type - 6 ^{5/8} REG Inside Magnet - None</p> <p>Quantity - 1 Make - BOWEN Body O.D. [in] 11 Connection type - 6 ^{5/8} REG Inside Magnet - None</p> <p>Quantity - 1 Make - BOWEN Body O.D. [in] 10 Connection type - 6 ^{5/8} REG Inside Magnet - None</p> <p>Quantity - 1 Make - BOWEN Body O.D. [in] 7 ¹³/₁₆ Connection type - 4 ½ IF Inside Magnet - None</p> <p>Quantity - 1 Make - BOWEN Body O.D. [in] 5 Connection type - 3 ½ IF Inside Magnet - None</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>
I.21	<i>Junk sub</i>	<p>Quantity - 1 Make - BOWEN Type - Standard O.D. of Body (Top connection) [in] 7 ¾ O.D. of Body (Under cup) [in] 5 ¾ O.D. of cup [in] 9 ¾ I.D. of cup [in] 8 ¹⁷/₃₂ Diameter of bore [in] 3 ½ Connection type - 6 ⁵/₈Reg pin top x box down</p> <p>Quantity - 1 Make - BOWEN Type - Standard O.D. of Body (Top connection) [in] 5 ½ O.D. of Body (Under cup) [in] 4 ½</p>	<p>1</p> <p>1</p>

		<p>O.D. of cup [in] 6 ½ I.D. of cup [in] 5 15/16 Diameter of bore [in] 2 ¼ Connection type - 4 ½ Reg pin top x box down</p> <p>Quantity - 1 Make - Type - Standard</p> <p>O.D. of Body (Top connection) [in] O.D. of Body (Under cup) [in] O.D. of cup [in] 6 7/16 I.D. of cup [in] Diameter of bore [in] Connection type - 4 ½ Reg pin top x box down</p> <p>Quantity - 1 Make - BOWEN Type - Standard</p> <p>O.D. of Body (Top connection) [in] 4 ¼ O.D. of Body (Under cup) [in] 3 1/8 O.D. of cup [in] 4 ½ I.D. of cup [in] 4 ¼ Diameter of bore [in] 1 ½ Connection type - 3 ½ Reg pin top x box down</p>	
I.22	Milling tool	<p>Quantity - 2 Type - Junk mill Flat mill O.D. [in] 12 Connection type - 6 5/8 Reg pin</p> <p>Quantity - 2 Type - Junk mill Flat mill O.D. [in] 8 Connection type - 4 ½ Reg pin</p> <p>Quantity - 2 Type - Junk mill Flat mill O.D. [in] 5 ¾ Connection type - 3 ½ Reg pin</p>	
I.23	Magnet fishing tool	<p>Quantity - 1 Body O.D. [in] 10 7/16</p>	

		<p>Connection type - 6 ⁵/₈ Reg box</p> <p>Quantity - 1</p> <p>Body O.D. [in] 6 ¹⁵/₁₆</p> <p>Connection type - 4 ¹/₂ Reg box</p>	
I.24	<i>Taper tap</i>	<p>Quantity - 1</p> <p>Make -</p> <p>Body O.D. [in] 6 ¹/₈</p> <p>O.D. Min. – Max. [in] 1 ¹/₂ - 4 ¹/₂</p> <p>Length [ft] 3.02</p> <p>Connection type - NC-50</p>	
J	WELL CONTROL / SUBSEA EQUIPMENT		
J.1	<i>Ram preventer</i>	<p>Quantity - 2</p> <p>Bore size [in] 18 ³/₄</p> <p>Working pressure [psi] 10,000</p> <p>Make - T3 ENERGY</p> <p>Model - 6012</p> <p>Locking system - Pressure balanced wedge lock</p> <p>Top connection type - Hub Cameron N° 27</p> <p>Bottom connection type - Hub Cameron N° 27</p> <p>Side outlet</p> <p>Quantity - 4</p> <p>Size [in] 3 ¹/₁₆</p> <p>Connection type - Flanged</p> <p>Standards (Edition required) -</p> <p>Sets of Rams</p> <p>Type - Shear Blind Rams (SBR) 2</p> <p>Quantity -</p> <p>Temperature rating [°F] 34 - 220</p> <p>Type - Pipe Rams</p> <p>Size [in] 5 ¹/₂ 2</p> <p>Quantity -</p> <p>Temperature rating [°F] 34 - 220</p> <p>Type - Pipe Rams</p> <p>Size [in] 5 2</p>	

		<p>Quantity -</p> <p>Temperature rating [°F] 34 - 220</p> <p>Type - Variable Bore Rams (VBR)</p> <p>Size [in] 3 ½ - 7 5/8</p> <p>Quantity -</p> <p>Temperature rating [°F] 70 - 180</p>	2
J.2	Fail-safe hydraulic valves [kill & choke]	<p>Total quantity of valves -</p> <p>Number of valves per outlet - Two (2) on Choke outlets</p> <p>Make - EEC</p> <p>Model - Dual block</p> <p>Bore size [in] 3 1/16</p> <p>Working pressure [psi] 10,000</p> <p>Connection type - Flanged</p> <p>Standards (Edition required) -</p> <p>Number of valves on each outlet - Two (2) on Kill outlets</p> <p>Make - EEC</p> <p>Model - Dual block</p> <p>Bore size [in] 3 1/16</p> <p>Working pressure [psi] 10,000</p> <p>Connection type - Flanged</p> <p>Standards (Edition required)</p>	8
J.3	<i>DIVERTER BOP</i>	<p>Make - REGAN</p> <p>Model - KFDS 24 in. nominal</p> <p>Maximum bore size (housing) [in]</p> <p>Working pressure [psi] 500</p> <p>Number of diverter outlets -</p> <p>Outlets O.D. [in] 16</p> <p>Insert packer I.D. [in] 10</p> <p>Tensile rating [lb] 2,500,000</p> <p>H₂S service</p>	1
J.4	<i>Diverter lines</i>	<p>Quantity -</p> <p>Lines O.D. [in] 12</p> <p>Valves – Type - Knife</p> <p>Valves – Size [in] 12</p>	2
J.5	Diverter Accumulator unit	Make - STEWART STEVENSON	

		Number of bottles - Capacity w/o pre-charge (each) [Gal] 11 Working pressure [psi] 1,000	3
J.6	<i>CHOKE MANIFOLD</i>	Make - RB PIPETECH Minimum I.D. [in] 3 1/16 Working pressure [psi] 10,000 H ₂ S service - Yes Manual choke Quantity - Make - T3 ENERGY I.D. [in] 3 1/16 Power choke Quantity - Make - T3 ENERGY I.D. [in] 3 1/16	2 2
J.7	<i>BOP TESTING EQUIPMENT – HANG OFF TOOL</i>		
7.1	Hydraulic BOP test pump	Make - HYDRATON Model - DA-186 air operated Pressure rating [psi] 26,000 Make - CLOVER Model - EK25EF electric powered Pressure rating [psi] 15,000 & 22,500 Chart recorder - Yes	
7.2	BOP test stump	Quantity - Test pressure [psi] 10,000 Model - to suit VETCO H4 connector Size [in] 18 3/4 Quantity - Test pressure [psi] 10,000 Model - to suit CAMERON collet connector Size [in] 18 3/4	1 1
K	MUD SYSTEM / BULK SYSTEM		
K.1	<i>HIGH PRESSURE MUD SYSTEMTRANSFER</i>		

	SYSTEM		
1.1	<i>Mud pumps</i>	Quantity - Make - NATIONAL Model - 12-P-160 triplex pump Motors Make - GENERAL ELECTRIC Type - Electric DC motor Model - GE-752 R1A Input rating [hp] Drive system - Chain Maximum working pressure [psi] 5,000 Suction pulsation dampener - None Discharge pulsation dampener - HYDRIL / K-20 - 5000 Reset relief valve - RETSKO – 2 in. Suction strainer - Yes Liner sizes [in] 5 ½ & 6 ½ Supercharging pump Quantity - Make - MISSION-MAGNUM Model - 6 x 8, impeller 12 in. Motor [hp] 75	3
1.2	Transfer pumps	Quantity - Make - MISSION-MAGNUM Model - 6 x 8 R Type - Centrifugal pump Motor [hp] 75	2
1.3	<i>Brine pumps</i>	Quantity - Make - Alfa-Laval Model - SRU 5/116/LS Type - Lobe pump Motor [hp] 6.5	1
1.4	<i>Mixing pumps</i>	Quantity - Make - MISSION-MAGNUM Model - 6 x 8 R Type - Centrifugal pump Motor [hp] 100	2
K.2	Rotary hoses	Quantity -	2

		Working pressure [psi] 5,000 I.D. [in] 3 ½ Length [ft] 87 Snubbing lines - Yes	
K.3	<i>Cement hoses</i>	Quantity - Working pressure [psi] 5,000 I.D. [in] 2 Length [ft] 60 Snubbing lines - Yes	1
K.4	<i>Chiksan hoses, Chiksan steel hose</i>	Quantity - Make - ANSON Type - Integral loop Working pressure [psi] 10,000 I.D. [in] 2 Section length [ft] 10 Connection type - 2 in fig 1502 wing union H ₂ S service - No	4
	<i>LOW PRESSURE SYSTEM – MUD TREATMENT SYSTEM</i>		
K.5	<i>Mud tanks</i>	Tank N° 1 Capacity [m ³] 90 (566 bbl) Tank type - Reserve tank Agitators - Yes Quantity - Make - LIGHTNIN Model - 75 Q 20 Motor - 20 Mud gun low pressure - No Mud gun high pressure - No High rate mixer - No Fresh water fill up line - Yes Sea water fill up line - Yes Brine fill up line - Yes Base oil fill up line - Yes Tank N° 4 Capacity [m ³] 61 (384 bbl) Tank type - Active tank	2

		<p>Agitators - Yes</p> <p>Quantity -</p> <p>Make - LIGHTNIN</p> <p>Model - 75 Q 20</p> <p>Motor - 20</p> <p>Mud gun low pressure - No</p> <p>Mud gun high pressure - No</p> <p>High rate mixer - No</p> <p>Fresh water fill up line - Yes</p> <p>Sea water fill up line - Yes</p> <p>Brine fill up line - Yes</p> <p>Base oil fill up line - Yes</p>	2
		<p>Tank N° 5</p> <p>Capacity [m³] 60 (377 bbl)</p> <p>Tank type - Active tank</p> <p>Agitators - Yes</p> <p>Quantity -</p> <p>Make - LIGHTNIN</p> <p>Model - 75 Q 20</p> <p>Motor - 20</p> <p>Mud gun low pressure - No</p> <p>Mud gun high pressure - No</p> <p>High rate mixer - No</p> <p>Fresh water fill up line - Yes</p> <p>Sea water fill up line - Yes</p> <p>Brine fill up line - Yes</p> <p>Base oil fill up line - No</p>	2
		<p>Tank N° 6</p> <p>Capacity [m³] 45 (283 bbl)</p> <p>Tank type - Reserve tank</p> <p>Agitators - Yes</p> <p>Quantity -</p> <p>Make - LIGHTNIN</p> <p>Model - 7000 Q 20</p> <p>Motor - 20</p> <p>Mud gun low pressure - No</p> <p>Mud gun high pressure - No</p> <p>High rate mixer - No</p> <p>Fresh water fill up line - Yes</p> <p>Sea water fill up line - Yes</p>	2

		<p>Brine fill up line - Yes</p> <p>Base oil fill up line - Yes</p> <p>Tank N° 7</p> <p>Capacity [m³] 45 (283 bbl)</p> <p>Tank type - Reserve tank</p> <p>Agitators - Yes</p> <p>Quantity -</p> <p>Make - LIGHTNIN</p> <p>Model - 7000 Q 20</p> <p>Motor - 20</p> <p>Mud gun low pressure - No</p> <p>Mud gun high pressure - No</p> <p>High rate mixer - No</p> <p>Fresh water fill up line - Yes</p> <p>Sea water fill up line - Yes</p> <p>Brine fill up line - Yes</p> <p>Base oil fill up line - Yes</p> <p>Tank N° 8</p> <p>Capacity [m³] 63 (396 bbl)</p> <p>Tank type - Kill Mud Reserve tank</p> <p>Agitators - Yes</p> <p>Quantity -</p> <p>Make - LIGHTNIN</p> <p>Model - 25 Q 20</p> <p>Motor - 20</p> <p>Mud gun low pressure - No</p> <p>Mud gun high pressure - No</p> <p>High rate mixer - No</p> <p>Fresh water fill up line - Yes</p> <p>Sea water fill up line - Yes</p> <p>Brine fill up line - Yes</p> <p>Base oil fill up line - Yes</p>	2
K.6	Sand traps / Treatment tanks	<p>Treatment tank N° 1</p> <p>Capacity [m³] 4.1 (25.8 bbl)</p> <p>Agitator- None</p> <p>Mud gun - None</p> <p>Treatment tank N° 2</p> <p>Capacity [m³] 2.50 (15.72 bbl)</p>	

		Agitator- None Mud gun - None Treatment tank N° 3 Capacity [m ³] 3.40 (21.39 bbl) Agitator- None Mud gun - None	
K.7	Slug / Pill tanks	Tank N° 3 Slug tank Capacity [m ³] 11 (69 bbl) Agitator - None Mud gun - None Tank N° 2 Pill tank Capacity [m ³] 19 (120 bbl) Agitator - - Quantity - One (1) Make - LIGHTNIN Model - 7000 Q 20 Motor - 20 Mud gun - None	
K.8	Trip tank	Capacity [m ³] 6.36 (40 bbl) Sensitivity [bbl/ft] 3 Pump Quantity - Make - MISSION-MAGNUM Type - Centrifugal pump Model - 4 x 5R Motor [hp] 50	1
K.9	Stripping tank	Capacity [m ³] 1.4 (8.8 bbl) Transfer pump Quantity - Make - MAGNUM TC Type - Centrifugal pump Model - 4 x 3 x 13 impeller 9 in. Motor [hp] 25	1
K.10	Gumbo Box	Quantity - One (1) Make - BRANDT	

		Type - Nutec Mud box	
K.11	<i>Flow divider</i>	Make - DERRICK Number of outlets - Five (5)	
K.12	<i>Shale shakers</i>	Quantity - Three (3) Make - DERRICK Model - linear motion shakers Flow Line Cleaner 2000, 7 G force Number of panels - Four (4)	3
K.13	<i>Desander stand alone</i>	Quantity - Make - DERRICK Model - DSV-10-3 Number of cones & size [in] 3 x 10 Maximum flow rate [gpm] 1,500 Centrifugal pump Make - Mission Model - 6 x 8 Motor [hp] 50	1
K.14	<i>Desilter stand alone</i>	Quantity - Make - DERRICK Model - S-420-S Number of cones & size [in] 20 x 4 Maximum flow rate [gpm] 1,000 Centrifugal pump Make - Mission Model - 6 x 8 Motor [hp] 50	1
K.15	<i>Mud hopper</i>	Quantity Type - Venturi	2
K.16	Barite / Bentonite silos	Quantity - Capacity of each silo [m ³] 61.45 (2,170 ft ³) Level sensor - Yes Relief valve - Yes Dust collector fitted on vent line - No	4
K.17	Cement silos	Quantity - Capacity of each silo [m ³] 61.45 (2,170 ft ³)	4

		Level sensor - Yes Relief valve - Yes Dust collector fitted on vent line - No	
K.18	Surge tank for barite / bentonite	Quantity - Capacity of each silo [m ³] 4.25 (150 ft ³) Load cell type - Yes Relief valve - Yes Dust collector fitted on vent line - No Quantity - Capacity of each silo [m ³] 3.11 (110 ft ³) Load cell type - Yes Relief valve - Yes Dust collector fitted on vent line - No	1 for Barite 1 for Bentonite
L	INSTRUMENTATION / COMMUNICATION		
L.1	Weight indicator	Make - MARTIN DECKER Model - WE 3-7 type B1586	
L.2	Stand pipe pressure gauges	Quantity - Make - MD-TOTCO Model - B67A Pressure range [psi] 0 – 5,000	2
L.3	<i>Remote choke control panel</i>	Make - ELECTRO FLOW CONTROL LTD Choke pressure gauge Quantity - Range [psi] 0 - 15,000 Standpipe pressure gauge Quantity - Range [psi] 0 - 5,000 Temperature gauge - None Choke position indicator – Quantity - Two (2) Pump stroke counter for each pump - Yes Cumulative stroke counter - Yes	1 1
L.4	<i>DRILLING PARAMETER RECORDER</i>	TOTCO RIG SENSE Quantity - Location - Control room Make - DAQ	1

		Make - ICS Model - NAV 5 Frequencies [kHz] Location - Radio Station	
8.2	Satellite equipment	Quantity - Type - Inmarsat C Location - Radio Station Quantity - Type - Inmarsat C Location - Ballast Control room Quantity - Type - Iridium	1 1
8.3	E.P.I.R.B	Quantity - Make - THRANE&THRANE Model - SAILOR 500/250 (minisat) Location - Pilot house	1
8.4	S.A.R.T	Quantity - Make - SAILOR Model - X96978 Frequency [GHz] 9	1
L.9	Satellite communication system	Quantity - Make - SAILOR Model - DT 4646E Type - Data Terminal for radio telex, SAT B & SAT C, KB 4641E Small Keyboard , & SAILOR H-1252 parallel printer Facsimile link - No Telex link - Yes Telephone link - Yes	1
L.10	Aeronautical communication system		
10.1	Beacon transmitter	Quantity - Make - SOUTHERN AVIONICS Model - SS-250MV non directional aero-beacon Frequency range [kHz] Location - Radio Station	1

10.2	VHF transceiver	<p>Quantity - Make - JOTRON Model - 6205 receiver VHF / MF / HF Frequency range [kHz] 131.45 Location - Radio Station</p> <p>Quantity - Make - ICOM Model - 1C-A200 Air Band Frequency range [MHz] 118 – 136.975 Location - Ballast Control Room</p>	<p>2</p> <p>1</p>
10.3	VHF handset	<p>Quantity - Make - DITTEL Model - FSG5 Frequency range [kHz] 131.45 Location - Radio Station</p>	2
L.11	Automatic Identification System	<p>Quantity - Make - FURUNO Model - F-150</p>	1
L.12	Ship Security and Alert System	<p>Quantity - Make - POLE STAR Model - Purple finder</p>	1
L.13	<i>VHF radio telephone</i>	<p>Quantity - Make - SAILOR Model - RT-144C Location - Pilot house & Control room</p>	2
L.14	VHF radio transceiver	<p>Quantity - Make - SAILOR Model - RT-144C, VHF Transceiver Frequency range [MHz] 155 – 158.6 Location - Radio Station (1) Pilot House (1) Ballast Control Room (1)</p> <p>Quantity -</p>	<p>3</p> <p>1</p>

		<p>Make - SAILOR Model - RT 5022 DCS-VHF Frequency range [kHz] 149.30 – 163.75 Location - Radio Station</p> <p>Quantity - 2 Make - SKANTI Model - VHF-3000 Location - Radio Station (1) Ballast Control Room (1)</p> <p>Quantity - 2 Make - SKANTI Model - GMDSS Controler, VHF / MF / HF Location - Radio Station (1) Ballast Control Room (1)</p>	
M	Accommodation		
M.1	Company representative's office	Quantity - Unrestricted view to drill floor - No	1
M.2	Contractor's office	Quantity - Unrestricted view to drill floor - No	2
M.3	Third party office	Quantity -	1
M.4	Hospital room	Number of beds - Wash basin - Yes	1
4.1	Living Quarters	Maximum person on board -	100
4.2	Galley	Number	1
4.3	Bedrooms	Number of one person bedroom - Number of two person bedroom- Number of four person bedroom -	4 42 3
4.4	Mess	Number	1
4.5	Recreation rooms	Number	2
4.6	Other rooms	Laundry – Number - Dry food storage – Number - Refrigerator – Number - Changing room – Number -	1 1 1 3

N	Safety Equipment		
N.1	Eye wash stations	Quantity - Locations - Mechanical Workshop Shakers Room Entrance Shakers Area Drill Floor Electric Workshop Outside Lockers Room Level 1 Locker Room - Level 2 Welder Workshop Control Room Sacks Store Subsea Engineer Galley Rig Air Compressor Cementing Room Cementing Control Unit Paint Locker Engine Room	17
N.2	Derrick safety equipment	Derrick escape chute Quantity - Model - with 20 m wire line	1
N.3	Blowers	Quantity -	1
N.4	GAS / FIRE DETECTION SYSTEM		
4.1	H2S monitoring system	Make - CROWCON Model - Fixed Detectors location - Moon Pool area Rig floor Shale Shaker Room Active Mud pit room Living Quarters air intake Machinery Deck air intake General alarms - No Type of alarm - Audible/visual alarm located at Rig floor Shale Shaker Room Active Mud pit room Engine room Location of central alarm panel - Control room	

4.2	Combustible gas monitoring system	<p>Make - CROWCON Model - Fixed Detectors location - Moon Pool area Rig floor Shale Shaker Room Active Mud pit room Living Quarters air intake Machinery Deck air intake</p> <p>General alarms - No Type of alarm - Audible/visual alarm located at Rig floor Shale Shaker Room Active Mud pit room Engine room</p> <p>Location of central alarm panel - Control room</p>	
4.3	H ₂ S portable detector	<p>Quantity - Make - BW Model - Gasalert Micro</p> <p>Quantity - Make - BW Model - Gasalert Micro 5</p>	<p>1</p> <p>2</p>
4.4	Fire/smoke detector in accommodation	<p>Model - APOLLO one (1) per cabin Type - Smoke detector Central alarm panel location - Control room</p>	
N.5	FIRE FIGHTING EQUIPMENT		
5.1	Fire pumps	<p>Quantity - Make - HAMWORTHY DOLPHIN Model - VID, Vertical Centrifugal Pump, Single Entry Type - C125 V101 Flow rate [gpm] 660 Motor [hp] 60 Pumps location - One in each propulsion room (starboard & portside)</p> <p>Quantity - Make - HAMWORTHY</p>	<p>2</p> <p>1 Jockey Pump</p>

		Model - Vertical Centrifugal Pump Type - D5 3VP Flow rate [gpm] 440 Motor [hp] 50 Pumps location - Main deck	
5.2	Hydrants and hoses	Quantity - As per Rules	
5.3	Portable fire extinguishers	CO ₂ extinguishers nb – [lb] Twenty six (26) various size up to 20 lbs Dry chemical extinguishers nb – [lb] Ninety three (93) various size from 4 to 20 lbs Two (2) 100 lbs on trolley's for helideck Foam extinguishers nb – [lb] Thirty (30) various size up to 20 lbs	26 93 30
5.4	Fixed foam system	Quantity of foam agent [gal] - 53 Nozzles location - Mud Pit & Shale shakers	53
5.5	Helideck foam system	Quantity of foam agent [gal] - 3 x 105 gal	3
5.6	Fixed fire extinguishing system	Location – Type - Engine room - CO ₂ Purifier room - CO ₂ Compressor room - CO ₂ Boiler room - CO ₂ Switchgear room - CO ₂ Propulsion room aft port - CO ₂ Propulsion room aft Starboard - CO ₂ Paint Locker - CO ₂ Emergency generator room - CO ₂ (independent system)	
N.6	Breathing Apparatus		
6.1	General sets	Quantity - Bottle autonomy [min] 30	12
6.2	Breathing air recharge compressor	Quantity - Make - BAUER Model -	1

		Working pressure [psi] Low pressure set at 3,260 High pressure set at 4,640 Flow rate [CFM]	
N.7	<i>EMERGENCY FIRST AID EQUIPMENT</i>		
7.1	First aid kit	Quantity -	5
7.2	Resuscitator	Quantity -	3
7.3	Stretcher	Quantity - Type - Paraguard Rescue stretcher Location - Sick Bay	1
N.8	<i>HELIDECK RESCUE EQUIPMENT</i>		
8.1	Storage boxes	Quantity - Construction material - Steel	2
8.2	Equipment	Aircraft axe - Yes Large fireman rescue axe - Yes Heavy duty hacksaw - Yes Grapple hook - Yes Quick release knife - Yes Bolt croppers - Yes	
N.9	Survival Equipment		
9.1	Lifeboats	Quantity - Make - WATERCRAFT - HARDING Capacity [each] [person] 50 Fire protection Radios - Four (4) HUMMINGBIRD DC 25, VHF transceivers. Use: emergency communications; Power: battery. Flares - As per Rules Food - As per Rules First aid kit- As per Rules	4
9.2	Life rafts	Quantity - Capacity [each] [person] 25	4

		Davit launched - None	
9.3	Rescue boat	Quantity - Make - NORSAFE Engine [hp] 56	1
9.4	Life jackets	Quantity -	200
9.5	Life buoy	Quantity -	14
9.6	Work vest	Quantity -	6
9.7	Escape ladders / Nets	For each lifeboat station	1
9.8	Distress signals	As per Rules	
O	COMPANY'S SUBCONTRACTOR FACILITIES		
O.1	Cementing UNIT	Owner - Company's Subcontractors Free placement basis - Yes – Dowell's unit	
O.2	MUD LOGGING UNIT	Dedicated area [m ²] 15 (161 ft ²)	15 m ²
O.3	ROV UNIT	Dedicated area [m ²] 93.5 (1,006 ft ²)	93.5 m ²
O.4	ELECTRICAL LOGGING UNIT	Dedicated area [m ²] 16.75 (180 ft ²)	16.75 m ²
O.5	LWD / MWD UNIT	Dedicated area [m ²] 15 (161 ft ²)	15 m ²