



CABOT 900 MOBILE RIG

**DRILLING RIG & ASSOCIATED
SERVICES**
June 2010
Prepared by : Skander Chebil

TECHNICAL SPECIFICATION

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1.0 RIG AVAILABILITY

The following information regarding the proposed Rig is requested:

- Name / Number of the proposed Rig; FRANKS CABOT 900
- Current location of the proposed Rig; SFAX, Tunisia
- Details of current contract and options remaining on the proposed Rig; Rig Available
- Rig Certification current validity date: 01/06/2014;
- Proposed mode of transport to be employed in Rig move and general support of construction and drilling operations; and Road, support from the Sfax yard and the Paris design office
- Estimated duration to mobilize the Rig to Location. 1 week

2.0 RIG DETAILS

The following table shall be completed with the details of each Rig proposed for the Work. Following agreement or negotiated amendment of specific Rig details, Contractor shall, as a minimum, provide all equipment to the standards and in the quantities stated in Schedule II.

RIG TYPE: CABOT 900 NUMBER: S/N: 195155

- **The maximum hookload capacity is 160 MT**

Please find in next pages the complete CABOT 900 rig inventory.

Please also find drawings and pictures in appendix

Facilities:

It is the intention of Dietswell remains based in Sfax for the duration of the project. Our offices would remain located in the Sfax yard.

3.0 CONTRACTOR'S EQUIPMENT

Section	A	Hoisting Equipment
	B	Rotary Equipment
	C	Pumping and High Pressure Discharge System
	D	Low Pressure Mud System
	E	Auxiliaries
	F	Blow Out Prevention and Well Control Equipment
	G	Drilling Rig Floor Equipment
	H	5" Drilling / Coring String
	I	3 ½" Drilling / Coring String
	J	Parameters Recording/Indicating Equipment
	K	Fishing Tools
	L	Fire Control, Safety Equipment and First Aid Equipment
	M	Main Camp and Rig Camp
	N	Tank Storage and Transport
	O	Spare Parts
	P	Other Consumables



SECTION A: HOISTING EQUIPMENT

ITEM NO.	DESCRIPTION	SPECIFICATION
A1	Drawworks	FRANKS Model 2346
A1	Dimension	Drum diameter: 23" ¼ x 44"
	Load Capacity	Single line pull: 50 000 lbs
	Fall rate	Line speed = 13.7 m/sec 960 HP 2 Caterpillar D343
	Equipped with	Allison 5 speed gearbox CBLT 5860 with Allison lock up torque converter
	Breaking	Auxiliary brake 22" single rotor packersburgh
	Alarms for Brake pressure failure & Low clutch air	Yes
	Capacity	Rated capacity with 5" DP: 9 000' Rated capacity with 3"1/2 DP: 13 500'
	Automatic Driller	No
	Cooling for Drawworks and electric brake:	Hydromatic brake
A2	Mast	
	Make	FRANKS S/N: D350112909
	Type	Telescopic Mast 350 000 lbs
	Height	99' (112' from ground level)
	Gross Nominal Capacity	Maximum Hook Load of 350,000 lbs / 160 Mton
	Static hook load with 12 lines	365 000 lbs with 10 lines 350 000 lbs with 8 lines
a)	Racking platform	
	Make	Cabot corporation
	Capacity of 5" Drill Pipes	220 DP 3-1/2
	Drill Collars 8 ½" and 9"	4 stands
	Air Winch at racking platform (monkey board)	Yes
b)	Casing Stabbing Board	
	Make	
	Adjustable from/to	
	Air powered	
	Dead line guide	
	Tongs Counterbalance System	
	Sheaves for drill floor air winches	

	Rig floor hoists	
	Number	
	Make	
	Type	
	Capacity	
	Line Diameter	
c)	Crown block	
	Make	Franks
	Type	
	Travelling line	
	Number of Sheaves	
	Sheaves grooved for	1-1/8"
	Sheaves diameter	
	Bumper blocks under crown	Yes
A3	<u>Mast Substructure</u>	
	Make and Type	CABOT
	Height under Rotary Beams to Ground Level	4,1m
	Nominal Height	4,8m
	Max. Set-back Load, LBS	550 000 lbs (200 000 lbs in the mast + 350 000 lbs at the RT)
	Conductor Tensioning System	
	Accessories	
A4	<u>Travelling Assembly</u>	
	Make	Mc Kissisck
	Type	
	Rated Capacity	150 tons
	Number of sheaves	5
	Diameter of sheaves	
	Sheaves grooved for	1-1/8
	Elevator links, size & rating	
	Retractable block system	
A5	<u>Drill Floor Racking Arm</u>	N/A
	Manufacturer and type	
	Capacity	
	Drill collars handling [size]	
A6	<u>Drill Pipe Handling System</u>	N/A
	Manufacturer and type	
	Motive power (air/hydraulic)	

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	Override to use manually	
	Tubular size range handling [sizes]	
A7	<u>Wirelines</u>	
	Drilling Line, Size & Length	1-1/8
	Sand line, size and length	
	Wireline Guide	
A8	<u>Wireline Measuring Unit</u> <u>[Slick Line]</u>	N/A
	Manufacturer and type	
	Power	
	Line Size	
	Drum Capacity	



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SECTION B: ROTARY EQUIPMENT

ITEM NO.	DESCRIPTION	SPECIFICATION
B1	<u>Rotary Equipment</u>	
	Rotary Table	
	Make	Wirth
	Type	
	Maximum opening	24-1/2"
	Load rating	450 tons
	Independent driven, 2 ratio	Yes
	Gear box	
	Motor type	Rig engine + universal joint
	Continuous power	160 rpm
	Solid master bushings	Varco With bushings and bowls to fit drill string and casing string of: 13-3/8, 9-5/8, 7, 5, 4-1/2 and 3-1/2
B2	<u>Swivel</u>	
	Make	National
	Type	P300
	Rated Capacity	
	Pressure Rating	
B3.a	<u>Kelly(s) for drilling with 5" Drillpipe (inside 9 5/8" Csg)</u>	
	Number	1
	Shape	Square
	Size	5-1/4"
	Length	40'
	Connection	6-5/8 Reg
	Drive Bushing	
B3.a.1	Saver Subs	
B3.a.2	Upper Kelly Cock	
	Number	
	Size	
	WP	
	Connection	
	ID	
B3.a.3	Lower Kelly Cock	
	Number	



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	Size:	
	WP	
	Connection	
	OD	
	ID	
B3.a.4	Lower Kelly Guard, Mud Saver Valve	
	Number	
	Size	
	WP	
	Connection	
	OD	
	ID	
B3.b	Kelly (s) for drilling with 3 1/2" Drillpipe (inside 7" Csg)	
	Number	1
	Shape	Hexagonal
	Size	4-1/4"
	Length	40'
	Connection	6-5/8 Reg x 4-1/2 IF
	Drive Bushing	
B3.b.1	Saver Subs	
B3.b.2	Upper Kelly Cock	
	Number	
	Size	
	WP	
	Connection	
	ID	
B3.b.3	Lower Kelly Cock	
	Number	
	Size:	
	WP	
	Connection	
	OD	
	ID	
B3.b.4	Lower Kelly Guard, Mud Saver Valve	
	Number	
	Size	

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	WP	
	Connection	
	OD	
	ID	
B4	<u>Kelly Spinner</u>	
	Type	
	Power	
	LH/RH Rotation	
B5	<u>Power Swivel</u>	No
	<u>Top Drive Drilling Equipment</u>	
	Manufacturer	
	Model	
	Load rating	
	Torque wrench moment	
	Motor manufacturer	
	Motor power output	
	Current rating (continuous)	
	Stem speed (maximum continuous)	
	Torque (continuous)	
	Torque (intermittent)	
	Cooling system type	
B6	<u>Iron Roughneck</u>	No
	Manufacturer	
	Type	
	Tool joint sizes handled	
	Max torque output	

SECTION C: PUMPING AND HIGH PRESSURE DISCHARGE SYSTEM

ITEM NO.	DESCRIPTION	SPECIFICATION
C1	<u>Mud Pumps</u>	
	Number	2
	Make	EMSCO/BOMPCO
	Model	RS-F1000 Slush Pump
	PSI/Output range	5000 psi
	Driven By	Detroit 12V2000 Diesel
	Continuous Power rating for each motor	500 HP
	Total available continuous delivered Hydraulic Horsepower	1000 HP
	Pulsation Dampener Discharge	20 gal / 5000 psi
	Reset relief valve	(2) RRV Retsco
	Pump stroke counter	Electric (Autelec) at DRC
	Supercharging Pump	(2) Halco 5"x4"x14"
	Driven each by	Marathon elec. 100/60 HP 1800 RPM
	With liners and pistons	6 " & 5 "
	Complete with :	Swabs
C2	<u>High Pressure Mud Lines and Stand Pipe</u>	
	Number	1
	OD:	4"
	Pressure rating WP	5000 psi
	Manifold pressure rating WP	5000 psi
	Rotary hose	YES
	Make	Independent Hose
	ID	3"
	Length	
	Pressure Rating WP	5000 psi
	Test pressure	10000 psi
	Complete with	Halfwing union 4" / 5000 psi
	Standpipe Manifold	OD 4" ID 3" 5000 psi
C3	<u>Cementing Unit</u>	No
	Owner	
	Manufacturer and type	
	Liner/plunger size and stroke	
	Pump output	
	Maximum operating pressure	
	Drive units	
	Liquid additive system	
	Re-circulating mixer	

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	Batch mixing system	
	Spare parts carried on board	
	Party responsible for cement pump maintenance	
C4	<u>Cement Manifold</u>	
	Cement manifold valve rating	
	Cement Standpipe	
	Solid Piping	
	Hose Type	
	Connection to Choke Manifold	
	Connection to Standpipe Manifold	
	Cement unit discharge manifold W. Press.	N/A
	Cement unit to rig floor length & W. Press.	N/A
C5	<u>High Pressure Kill Line</u>	
	(to choke manifold)	Yes
	I.D. and length	ID 2" 28 ft
	Working pressure	5000 psi
	End Connections	HalfU 3" FIG-1002 5000 psi

SECTION D: LOW PRESSURE MUD SYSTEM

ITEM NO.	DESCRIPTION	SPECIFICATION
D1	<u>Mud Mixing</u>	
	Hoppers - Make & Type	(1)Hoppers + (1) Big Bag Station / 3C Metal
	Location	Mud Mixing Unit
	Mud Weight Capacity	1.4 SG
	Low Pressure Pumps - Make & Type	(2) centrifugal (6 x 8")
	Drive-HP	Electric AC explosion proof minimum 75 HP motor
D2	<u>Active Mud Tanks</u>	
	Tank 1 (size & capacity)	25 m3
	Tank 2 (size & capacity)	50 m3
	Tank 3 (size & capacity)	N/A
	Mud Agitators (No. & HP)	(3) & 11KW
	Low Pressure Mud Guns	(4) Low Pressure Bottom Gun 3" and 8 ft
	Pill Tank (capacity & location)	25 m3 beside of Active Tank 2 (1)Agitator & (2) Mud guns
	Sand Trap (capacity & location)	12,72 m3
D3	<u>Reserve Mix Mud Tanks</u>	
	Tank 1 (size & capacity)	37 m3
	Tank 2 (size & capacity)	37 m3
	Tank 3 (size & capacity)	NON
	Mud Agitators (No. & HP)	(2) & 0,55KW
	Low Pressure Mud Guns	(4) Low Pressure Bottom Gun 3" and 8 ft
D4	<u>Trip Tank</u>	
	Capacity	4,7 m3
	Level Indicator	Manual & Electric (Autelec)
	Location	Near by Shale shaker
	Fill System	From Mix Unit and DCR
	Incremental range	
D5	<u>Shale Shakers</u>	
	Make and Type	SWACO / MONGOOSE PT Dual Motion shaker
	Number	3
	Max Flowrate (gpm)	1800 gpm (600 gpm each)
	Screen sizes available	80 , 100 mesh
D6	<u>Desander</u>	N/A
	Make and Type and number of	

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	units	
	No. of Cones – sizes	
	Max Flowrate (gpm)	
	Feed Pump - make and type	
	drive	
	Motor	
	HP	
D7	<u>Mud Cleaner / Desilter</u>	N/A
	Make and Type	
	No. of cones – sizes	
	Max Flowrate (gpm)	
	Feed Pump - Make and type	
	drive	
	motor	
	HP	
D8	<u>Centrifuge</u>	N/A
	Manufacturer and type	
	Size	
	Throughput (gal/min)	
	Location and hook-up details	
D9	<u>Pit Volume Totalizer</u>	
	Tanks Monitored	(1)Electrical (Autelec)
	Rig floor display	DCR
	Mechanical Indicators	N/A
D10	<u>Mud Testing Equipment</u>	
	Complete List	Standard

SECTION E: AUXILIARIES

ITEM NO.	DESCRIPTION	SPECIFICATION
E1	<u>Cutting & Welding Equipment</u>	
	Make & Type	ADC TRIARC / 406/L
	Description	400 amp
	<u>Cutting & Welding Equipment</u>	
	Make & Type	KEMPI / MINARC
	Description	150 amp / 220 V MONO
E3	<u>Hydraulic Winches</u>	
	Drill Floor - Make and Type - Load rating (SWL)	Barciet /LC30 (2 ton) Barciet / TM4 (5 ton)
	Main Deck - Make and Type - Load rating (SWL)	N/A
	Racking Platform - Make and Type - Load rating (SWL)	N/A
	Man-Riding - Make and Type - Load rating (SWL) - Locations	N/A
E4	<u>Mud Saver Box</u>	
	Make and Type	Oteco
	Size range	3 ½ & 5 “
E5	<u>Hand Tools</u>	
	Brief list	(2)Reversible chain tong Titan C67-P + Jaws + Special chain (2)Reversible chain tong Titan C57-P + Jaws + Special chain (2)Reversible chain tong Titan C47-P + Jaws + Special chain (4)Pipe wrench 24, 48 & 60” (2)Hook Jaw for each 24, 48 & 60" (4)Heel jaw with pin 24, 48 & 60" (10)Sledge hammer 10 lbs W/ unbreakable handle (4)Crowbar: Hook on one end straight other for pulling nails 48" (4)Crowbar: Straight pry pinch point bar 60" (4)Impact box end wrench F/ 1, 7/8 & 5/8" dia,

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		stud & 1-1/16" (4)Box wrench Oteco, stud size 3/4, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-7/8, 2-1/4 & 2" (1)Hydraulic Dynamometric Key type RT-5 (1)Impact Tong: 1 3/16"- 2"- 2 3/16"- 2 9/16" - 2 15/16" Manual Block Chain F=1.5T 3M lifting Manual Block Chain F=2T 3M lifting Manual Block Chain Elephant 5000KG (2)Manual Block Chain, F=0.5T 1.5M lifting (1)Mechanic Press 250 MM (1)Mechanic Press 150 MM (1)Manual Hydraulic Press 13 ton
E6	<u>Chiksan Hose</u>	Best Swivel Joint
	Type	Style50 TLH-10 Swivel Fig 1502
	Size	2"
	Test Pressure	10000 psi
	Number	(10)
E7	<u>Doghouse and Mud Sample House</u>	
	Location	Mud Sample House: Over Mud Tank
	Size	1.10 x 1.85 mts

**SECTION F: BLOWOUT PREVENTION AND WELL CONTROL EQUIPMENT-H2S
TRIMMED**

ITEM NO.	DESCRIPTION	SPECIFICATION
F1.1	DIVERTER 5000 PSI	
	Size	13-5/8"
	Make and Type	Steal Shaffer / Spherical (Chinese MGE)
	Pressure Rating	5000 psi
	Spool	13-5/8 5000 psi Flange x 13-5/8 2000 psi Flange Series 600RT
	Diverter Valve	Pipe Line Valve SPECIALITY 8" and 1480 psi
F1.2	21¼" or 20 ¾" Annular Type Preventers	N/A
	Size	
	Make and Type	
	Pressure Rating	
	Bottom Connection	
	Top Connection	
F1.3	11" Annular Type Preventers	
	Size	11"
	Make and Type	BOP 11" 5M Hydrill Type GK Annular
	Pressure Rating	5000 psi
	Bottom Connection	5M Flange Bottom
	Top Connection	5M Studded Top
F2.1	With adapter	(1) Double Studded Adapter flange 11" 5M x 11" 3M
F2.2	21¼" or 20 ¾" Ram Type	N/A
	Qty	
	Size	
	Make and Type	
	Top Connection	
	Bottom Connection	
	Pressure Rating	
	Outlet size location and connections	
F2.3	11" Ram Type	
	Size	11"
	Number	(1)

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	Make and Type	BOP 11" 5M Cameron Type U Double Ram
	Top Connection	5M Flange Top
	Bottom Connection	5M Flange Bottom
	Pressure Rating	5000 psi
	Outlet size location	(4) 4-1/6" 5M Flange side Outlet
	Choke and Kill Lines	
	Choke Valves	
	Number	(1)
	Make	Doyles
	Type	Manual CIW /FC
	Size	3-1/8"
	WP	5000psi
	Operated	
	Number	(1)
	Make	Doyles
	Type	Hydraulic CIW /FC
	Size	3-1/8"
	WP	5000psi
	Operated	Koomey Unit + 2 remotes controls(DCR + Beside Offices)
	Choke Line	(1)each
	Make	Coflexip
	ID	3"
	Length	API flanges at each end
	WP	5000psi
	Kill Valves	
	Number	(1)Manual + (1) Hydraulic
	Make	Doyles
	Type	CIW /FC
	Size	3-1/8"
	WP	5000psi
	Operated	Koomey Unit + 2 remotes controls(DCR + Beside Offices)
	Kill Line	
	Number	(1)each



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	Make	Coflexip
	Type	
	Size	2"API flanges at each end
	WP	5000psi
F3	Rams	
F3.1	For 21¼" or 20 ¾" BOP	N/A
	5" Blind/Rams	
	5" Pipe Rams	
	Casing Rams	
F3.2	11" BOP Rams	
	95/8" Rams	Non
	7" Rams	(2)Set of Rams
	5" Rams	(2)Set of Rams
	Variable Bore Rams (2 7/8" - 5 ")	(2)Set of Rams
	4½" Rams	(2)Set of Rams
	3½" Rams	(2)Set of Rams
	2 7/8" Rams	(2)Set of Rams
	2 3/8" Rams	(2)Set of Rams
F3.3	Portable Test Unit for B.O.P	
	Make and Type	PROSERV Pressure Testing Unit Type 30B for Liquid Service
	Power Supply	Pneumatic, air operated
	Range	10gpm at Low Pressure rated for 5000 psi
	Pressure Recorder	Yes
F4	Adaptor Spools	(1)Adaptor Spool, 13-5/8" 5M Flange x 13-5/8" 2M Flange with two (2) of 8" Series 600 RTJ Flange Slide outlet x 48" tail
CONTRACTOR to list giving full specifications, dimensions, and quantity (See also F5.)		
F4.1	Flow risers for use with BOP's	
F4.2	Diverter Spools and Valves	Able to open 8" to 10 diverter ball at anytime without having to close diverter.
	Diverter Spool Size	13-5/8"
	Top and Bottom Connections	13-5/8 x 13-5/8"
	Sidarm Flange connection	8"
	Interlocked Valves YES/NO	N/A
F4.3	Diverter Line (s)	
	Type of Pipe, Schedule,	



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	OD, ID, Length	11"OD, 10"ID & 12mts
F5.	Adapter/Riser	N/A
Adapter Spools to adapt between COMPANY'S Well head spools and CONTRACTOR'S BOP stack		
	Size	
	Pressure rating	
	Height	
	Size	
	Pressure rating	
	Height	
	Size	
	Pressure rating	
	Height	
	Size	
	Pressure rating	
	Height	
F7.1	Pressure Unit and Control	
	Accumulator Unit with low Fluid Level alarm	
	Make	Energex International
	Model	Six station BOP control system (E-series)
	Number of bottles	(8)
	Capacity/Bottle	15 gal per bottle
	Total capacity	120 gal
	Accumulator pressure	3000 psi
	Triplex Pump	Triplex pump UET20-B
	Quantity	(1)With a 1.25" plungers
	Type	CPCBP-4032
	Driven by	Electric motor
	Flow Rate	
	Max. Pressure	5000 psi
	Air Pumps	Yes
	Quantity	(2)
	Make	
	Type	Bis-sixty air pump 60:1
	Flow Rate	



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	Max. pressure	5000 psi
	Control panels	Control Manifold
	Main Panel	YES
	Type	G-Series Hydraulic
	Press. Regulator for bag BOP	(Yes) Operating valve
	Press. Regulator for Choke/Kill	(Yes) Operating valve
	Valves	
	Number of gauges	(4)And a secondary umbilical line
	Remote control panel	(Yes)
	Quantity	(2)
	Type	Pneumatic, Dual remote control panel
	Location	DCR and office
	Backup nitrogen system for accumulators	
	Backup air bottles for annular regulators	Air reserve assembly of 5 gal air reservoir
	U.P.S. system for remote control panels	
F7.2	Hydraulic Control Hoses	
	Manufacturer and type	(14)Independent Hose / BOP control line Hose
	Lengths/sizes	30feet 1"ID
	Working pressure	5000psi
	Fire resistant/armoured	Yes
F8	BOP Testing Equipment - List	
F8.1	Cup Type Casing Tester	
	13 ³ / ₈ "	Yes
	for Casing Wt(s)	48 – 61 lbs/feet
	Make	Packard International Cup
	Type	Type F
	Rating	273 lbs
	Connection	
	9 ⁵ / ₈ "	Yes
	for Casing Wt(s)	43.5 – 53.5 lbs/feet
	Make	Packard International Cup
	Type	Type F
	Rating	198 lbs / 90 kg
	Connection	
	7"	N/A
	for Casing Wt(s)	



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	Make	
	Type	
	Rating	
	Connection	
	Spare Cups for the above	
F9	Choke Manifold	
	Manufacturer	Doyles Valves
	Pressure rating	5000 psi
	Manual adjustable chokes - Manufacturer	3-1/8" 5000 psi, Cameron Style, Model H2, Manually Operated, 2"Class P-U
	Hydraulic operated chokes - Manufacturer	3-1/16" 10000 psi, Swaco Style, Super Choke, EE Trim, Temp, Class P-U
	Gate Valve details - Size - Type - Pressure Rating	(2)4-1/16, (3)3-1/8 and (2)2-1/16 Cameron FC Class P-U 5000 psi
	Upstream line size	Independent Hose 3" 5000psi
	Downstream line size	Independent Hose 3" 5000psi
	Straight through line size	
	Buffer tank	WP 5000 psi, Shell Test Pressure 10000psi Fabricated using 12" OD x 9" ID 4130 Mechanical Tubing API 75K, with 2- 4 1/16" 5,000psi Studded End Caps, 3- 3 1/8" 5,000psi Flanged Inlets, 3- 3 1/8" 5,000psi Flanged Outlets, 1- 4 1/16" 5,000psi Flanged Outlet and 1- 2 1/16" 5,000psi Vertical Flanged Outlet, Heat Treated.
F9.1	Mud/Gas Separator poor-Boy Type	
	Make, Type and Size	3C Metal international, Poor Boy Type, 5.3 mts (Separator) From top to Bottom 13.4 mts
	Inlet Size & connection	12" Inlet
	Outlet Size & Connection and Rating	8" Outlet
F9.2	Degasser	
	Make	Swaco
	Type:	Centrifugal Degasser CD-1400
	Vacuum compressor	Model-1000 Burgees MAGNA-VAC (Vacuum type) , max of 1000 gpm flow rate
	Centrifugal pump	Swaco Decanter 500 NAHC FH 1750 RPM / 60 Kw (3X2X13 Complete Horizontal Pump W/MS with

		10" impeller)
F9.3	Burner Line	
	Gas/oil – type of pipe – ID	Yes – 6"
	Water – type of pipe – ID	No
	Air – type of pipe – ID	No
	NRV in air line	No
	Note: With plug for testing at end of each service line	
F9.4	Test Stumps For	
	Low pressure BOP	
	High pressure BOP	Yes 5000 psi
F9.5	High Pressure Test Pump	
	Manufacturer and type	
	Power source	
	Output and pressure rating	
	Recorder	
F10	Inside BOP	
F10.1	For 5" Drilling String	
	Drop In (Wireline Retrievable)	Yes
	Full Opening Valve Qty 2	
	Make, Type and Size	IBOP Packard 4-3/4" 10000 WP
	Connection	NC38 box x pin connection
	Gray Valve	Yes
	Size	6-3/8"
	Connections	4-3/4" IF
F10.2	For 3½" Drilling String	
	Drop In (Wireline Retrievable)	Yes
	Full Opening Valve	
	Make, Type and Size	IBOP Packard 3-1/2" 10000 WP
	Connections	
	Gray Valve	Yes
	Size	4-7/8"
	Connection	2-7/16"IF
F11	Float Valves	(2) 2" IF x 3" R (GA)Flapper (2) 2" IF x 3" R Plunger (2) 4" Reg (GA) Flapper (2) 4" Reg (F) Plunger (4) 5" IF x 6" R (GA) Flapper (4) 5" IF x 6"R (F) Plunger

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F12	Circulating Heads complete with swivel assembly	
F12.1	For 5" Drill String	
	Make, Type and Size	(2) Weco 1502
	Bottom Connection	4-1/2" IF Pin
	Top Connection	2"
F12.2	For 3½" Drill String	
	Make, Type and size	(2) Weco 1502
	Bottom connection	3-1/2" IF Pin
	Top connection	2"

SECTION G: DRILLING RIG FLOOR EQUIPMENT

ITEM NO.	DESCRIPTION	SPECIFICATION
G1	Elevators	
G1.1	Standard String Elevators	
	Drill Pipe Elevators	
	Quantity	(2)
	Make	Varco MGG
	Model	180 Center Latch Elevator
	Size	5"
	Capacity	250 ton
	Quantity	(2)
	Make	Varco MGG
	Model	180 Center Latch Elevator
	Size	3-1/2"
	Capacity	250 ton
	Elevator Links	
	Number of Sets	(1)Set of 2-3/4"
	Make	Varco
	Length	96 "
	Capacity	250 ton
	Drill Collar Elevating Equipment	No
	Elevators	
	Quantity	
	Make	
	Model	
	Size	
	Capacity	
	DC Quick Lift Assembly	
	Make	
	Capacity	
	Casing Elevators	
	Side Door Casing Elevators	Side door elevator
	Number	(2), (1), (2) and (2)
	Make	Wilson Casing

	Type	WEB
	OD Casings	13-3/8", 9-5/8", 7" and 4-3/4"
	Capacity	150 ton each
	Number	(1)
	Make	Varco Casing
	Type	BJ SLX
	OD Casings	9-5/8"
	Capacity	150 ton each
G1.2	Tubing Slip Type Elevators	
	Number	(1)
	Make and Type	Tubing Spider Air Operated Model 100A Type C
	Capacity	100 ton
	Inserts	4-1/2", 3-1/2", 2-7/8" and 2-3/8"
G1.3	Single Joint Elevators	
	Number	(2), (2), (2) & (1)
	Make	Wilson
	Type	B
	OD Casing	13-3/8, 9-5/8, 7 and 4-1/2"
G2	Slips	
G2.1	Standard Manual slips	
	Drill Pipe Slips	Yes
	Number	(2)
	Make	Varco
	Type	BJ
	for Drillpipe OD.s	5"
	Number	(2)
	Make	Varco
	Type	BJ
	For OD Drill	3-1/2"
	Semi-Automatic Slips for 5" and 3 1/2" Drill pipe	No
	Make	
	Type	
	Drill Collar Slips	
	Number	(2)
	Make	Varco

	Type	BJ
	For DC O.Dia.s	8"
	Number	(1)
	Make	Varco
	Type	BJ
	For DC OD	6-1/2"
	Casing Slips - List	(2) Slips for 13-3/8" casing (2) Slips for 9-5/8" casing (2) Slips for 7" casing (1) Slips for 4-1/2" casing
G2.2	Casing Spider (Slip Type)	No
	Number	
	Make and Type :	
	Capacity	
	Inserts	
G2.3	Tubing Slips	(1) YC Spider elevator with Slip assy 4-1/2 Rebuilt and Mag (1) YT Spider elevator with slip assy 3-1/2, 2-7/8 & 2-3/8 Rebuilt and Mag
G3	Drill Pipe, Drill Collars Casing, Tubing Tongs	
G3.1	Manual Rig Tongs	
	Number	(2)
	Make	Varco HT35
	Type	C tongs
	Range size	5" till 2-3/8"

G3.2	Drill Pipe Spinning Tong	(1)
	Spinning Wrench:	Yes
	Make	Varco HT100
	Type	SDD
	Range Size	17" – 4"
	Number	(1)
	Make	Varco HT55
	Type	B tongs
	Range size	13-3/8" till 4-1/2"



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G3.3	Casing Power Tong	(1)
	Description and Details	Eckel Hydraulic power tong w/ Torque gauge and Spring Hanger, Dies from 10-3/4 to 2-3/8"
G4	Drill Collars / Safety Clamp	
	Number	(1), (1), (2) & (2)
	Make	Varco
	Type	
	Range	8, 6-1/2, 4-3/4 & from 4-1/8 to 2-1/4
G5	Tubular Drifts - All weight ranges specified	N/A
	H5.1 For 20" Csg diameter as follows:	
	For 13_ " Csg diameter as follows:	
	For 9_ " Csg diameter as follows:	
	For 7" Csg diameter as follows:	
	For 4½" Csg diameter as follows:	
	For 3½" Tubing diameter as follows:	
G6	Casing Thread Protectors (Klampons or Equivalent)	
	For 20" Csg Make :	
	For 13-3/8" Csg Make :	(2)
	For 9-5/8" Csg Make :	(2)
	For 7" Csg Make :	(2)
	For 4½" Csg Make :	No
	(CONTRACTORS to state make and quantity)	
G7	Bit Breakers Qty	
	To break - 26" Rock Bit	No
	To break - 17½" Rock Bit	Yes
	To break - 12¼" Rock Bit	Yes
	To break - 8½" Rock Bit	Yes
	To break – 6" Rock Bit	No
G8	Mud Saver Box	N/A
	Make and type	
	Size Range	
G9	Casing Fill-Up Line	
	Make and type of line	

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	OD	3"
	Location	Rig Floor
	Controls	Manual valve
G10	Well Fill - Up Line (from trip tank)	
	Make and type of line	
	OD, ID	2,5", 1-7/8"
	Connection	
	Controls	DCR Electronic



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SECTION H: 5" DRILLING / CORING STRING

ITEM NO.	DESCRIPTION	SPECIFICATION
H1	Drill Pipe	
	5" OD Drill Pipe	Yes
	Grade	S-135
	Total Length	2200 m (7200 ft) 236 joints
	Range	2 pipe
	Weight	19.5 lb/ft
	Tool Joint OD	6-3/4"
	Taper Box	Ping box
	Connection	4-1/2" IF
	API Class	(NC50)
	Hard Banding	Yes ARNCO 200XT
H2	5" OD Drill Pipe Pup Joints	
	Quantity	(4), (2) & (2)
	Grade	S-105
	Length	15', 10' & 5'
	Weight	19.5 lb/ft
	Drill Pipe Drifts:	
H3	Hevi - Wate Drill Pipe (5")	
	Number	(30) joints range-2
	Nominal weight:	19.5 lb/ft
	Connection	4-1/2" (NC50)
	Hard Banding	Yes
H4	Drill Collars :	
	Indicate whether with slip and elevator recess or lifting sub type	
	Number	(8) of 30' long
	8 1/4"/8"OD	8"
	ID	2-3/16"
	Connection	6-5/8" Reg MxF
	Spiral Type	Grant Prideco H-series Spiral
	Number	(8) of 30' long
	6 1/2"/6 1/4"OD	6-1/2"
	ID	2-3/16"
	Connection	4-1/2" IF MxF

	Spiral Type	Grant Prideco H-series Spiral
H4.1	Short Drill collar for each Drill Collar size	
	Description and quantity	(1) of 15' and (1) of 10' long OD 8" ID 2-3/16" (Same Spec) (1) of 15' and (1) of 10' long OD6-1/2"ID2-3/16" (Same Spec) (1) of 15' and (1) of 10' long OD 4-3/4" ID 2" (Same Spec)
H5	Cross Over Subs - List	(2) 4 1/2 IF B X 2 7/8 N VAM P (2) 4 1/2 IF B X 2 7/8 EU P (2) 4 1/2 IF B X 3 1/2 EUE P (2) 4 1/2 IF P X 3 1/2 IF B (2) 4 1/2 IF B X 3 1/2 N VAM P (2) 4 1/2 IF B X 4 1/2 EUE P (2) 4 1/2 IF B X 4 1/2 N VAM P
H5.1	Lifting Subs – List	(8) 6 5/8 REG P X 4 1/2 IF B (8) 4 1/2 IF P X 4 1/2 IF B
H6.	Reamers and Stabilisers	
H6.1.a	26" Near bit Roller reamer or Stab	<u>N/A</u>
H6.1.b	26" Stabiliser	<u>N/A</u>
H6.2.a	17 1/2" Near bit roller reamer	<u>N/A</u>
H6.2.b	17 1/2" Near bit Stabiliser	(3) of OD 9-1/2" x 8' 7-5/8" Reg x 6-5/8"Reg
H6.2.c	17 1/2" string stabilisers	(3) OD 9-1/2" x 5' 6-5/8" Reg x Reg
H6.3.a	12 1/4" Near bit roller reamer	<u>N/A</u>
H6.3.b	12 1/4" Near bit Stabiliser	(4) Body OD 8" x 8' 6-5/8" Reg x Reg
H6.3.c	12 1/4" string stabilisers	(4) Body OD 8" x 5' 6-5/8" Reg x Reg
H6.4.a	8 1/2" Near bit roller reamer	<u>N/A</u>
H6.4.b	8 1/2" Near bit Stabiliser	(4) OD 7" x 8' 4-1/2" Reg x 4-1/2"IF
H6.4.c	8 1/2" string stabilisers	(4) OD 7" x 5' 4-1/2" Reg x 4-1/2"IF

SECTION I: 3½" DRILLING/CORING STRING

ITEM NO.	DESCRIPTION	SPECIFICATION
11	3½ OD Drill pipe	
	Grade	S-135
	Total Length	2200 m (7200 ft)
	Range	2 pipe
	Weight	13.3 lb/ft
	Tool joint OD	4-7/8"
	Taper box	Ping Box
	Connection	2" IF
	API Class	NC38
	Hard Banding	Yes ARNCO 200 XT
12	3½ OD Drill Pipe Pup Joints	
	List	(4) of 15' S-135 13.3 lb/ft (2) of 10' S-135 13.3 lb/ft (2) of 5' S-135 13.3 lb/ft
13	3½" Hevi-Wate drill Pipe	
	Number	30 joints of range-2 NC38
	Weight	13.3 lb/ft
	Connection :	3-1/2" IF
	Hard Banding	Yes
14	4 ¾" Drill Collars	
	Number	(8) of 30' long
	O.D.	4-3/4"
	I.D.	2"
	Connection	2" NC38 MxF
	Spiral Type	Grant Prideco H-series Spiral
15	Cross Over Subs - List	(2) 3 1/2 IF B X 2 7/8 N VAM P (2) 3 1/2 IF B X 2 7/8 EUE P (2) 3 1/2 IF B X 3 1/2 N VAM P (2) 3 1/2 IF B X 3 1/2 EUE P (2) 3 1/2 IF B X 4 1/2 N VAM P (2) 3 1/2 IF B X 4 1/2 EUE P
17	Lifting Subs - List	(8) 3 1/2 IF P X 3 1/2 IF B

SECTION J: PARAMETERS RECORDING/INDICATING EQUIPMENT

ITEM NO.	DESCRIPTION	SPECIFICATION
J.	<u>Sensors, Indicators and recorder at Driller's Site</u>	All are AUTELEC PRODUCT's
J1	<u>Weight Indicator</u>	(2)Dynamometric axe with: Measure range: 0-40 tons Power supply: 15-30Vdc Output signal: 4-20mA Accuracy:0,5% Overload: 200% (2)Dynamometric axe for snubbing system with: Measure range: 0-7.5 tons Power supply: 15-30Vdc Output signal: 4-20mA Accuracy: 0,5% Overload: 200% (1)VNi04 Graphic Display
J2	<u>Pressure Gauges</u>	
	Make / Model	(1)Pressure box including: Stand pipe pressure sensor Annular pressure sensor
J3	<u>Rotary Torque Indicator</u>	
	Make / Model	(1)Pressure box including one top drive pressure sensor
J4	<u>Pump Stroke Counter</u>	
	Make / Model	(1) Namur proximity sensor 2 wires for SPM1 & SPM2 (1) Junction box for SPM1 & SPM2 sensors (1) Stainless steel bracket for mud pump sensors
J5	Rotary Tachometer (RPM)	(1) Rate Of Penetration (ROP) sensor assembly including: (2) proximity detectors for the up/down counting (1) proximity detector for synchronization.
J6	<u>Dead Line Anchor</u>	N/A
	Make	
	Model	
J8	<u>Pit Level Monitoring & Mud Flow System</u>	
	Make	(1) AUTE PIT / Mud level sensor with junction box Atex certified Eex"d" IIC T6 Including:

		One float 300mm diameter Upper & lower brackets (1)Radar Frequency Sensor for return mud flow
J9	<u>Tong Torque Indicator</u>	Yes
	Make	Autelec Product
J10	<u>Parameter Recorder</u>	
	Number	(1)Data management module with: -Converter box RS232 / RS485 - Hewlett Packard PC Computer Philips LCD monitor 19" TFT XGA - Software for a clear display of drilling parameters and easy printing of graphic records from Kit PC03 - Inkjet printer: Epson stylus color 1160 (new model) - Printer paper A3, cartridge black, cartridge color and cable for printer
J11	<u>Deviation Surveying equipment</u>	
	Measuring Device	Double shot with clock
	Make	TOTCO
	Deviation Range	0- 8° , 0 – 16 °
	Complete with sinker bars, swivel to wire line.	Yes

SECTION K: FISHING TOOLS

ITEM NO.	DESCRIPTION	SPECIFICATION
K1	<u>Junk Subs</u>	
	12 ¼", 8½", 6"	
	Number	(1)of each
	Make	Logan
	Type	FS
	OD	9-5/8, 6-5/8, 5
	Connection	6-5/8 Reg , 4-1/2 Reg , 3-1/2 Reg
K2	<u>Reverse Circulating Junk Basket</u>	
	12¼", 8½".6"	
	Number	(1)of each
	Make	Logan Type A-shoe
	OD	11, 7-7/8' & 5-1/8"
	Connection	6-5/8, 4-1/2 & 3-1/2"
K3	<u>Magnets</u>	
	Hole size	(1)For 8-1/2" (1)For 6"
	Make & type	Logan FS
	OD	7 and 5"
	Connection	4-1/2 API Reg 2-7/8 API Reg
K4	<u>Casing Scrapers for 9 5/8", 7", 5" / 4 ½" casing</u>	
	Make and type :	Logan IF
	OD of Body	9-5/8, 7 and 4-1/2"
	ID	9, 6-1/2 and 4-1/4"
	Connection box and pin:	4-1/2 API Reg 3-1/2 API Reg 2-3/8 API Reg
K5	<u>Overshots</u>	
	Number	(1)of each
	Make	Logan
	Type	Series 150 Type FS
	OD	11-3/4, 9-5/8, 8-5/8, 8-1/8 & 5-3/4"
	Oversize guide:	6-5/8 Reg, 6-5/8 Reg, 4-1/2 IF, 4-1/2 IF & 3-1/2"



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		IF.
	Extension	15" each one
Note : 1)	CONTRACTOR will provide all grapples to catch all undersize connections (due to normal wear and tear) for all CONTRACTOR'S downhole equipment.	
Note : 2)	All overshots to be complete with packer, mill control packer, Basket grapples, Spiral grapples, Spiral grapple control. Standard guides and spare parts as recommended by manufacturers.	
K6	<u>Fishing Jars</u>	
	Number	(3)
	Make	Logan
	Type	Type Z Hydraulic Fishing Jar
	OD	8, 6-1/2 and 4-3/4"
	Connection	6-5/8 Reg, 4-1/2 Reg, 3-1/2 Reg
K7	<u>Fishing Bumper Subs</u>	
	Number	(1) of each
	Make	Logan
	OD	8, 6-1/2 and 4-3/4"
	Stroke	20" stroke each
	Connection	6-5/8 Reg, 4-1/2 IF & 3-1/2" IF
K8	<u>Safety Joints</u>	
	Number	(3)
	Make	Logan Coarse Thread SJ
	Type	FS
	OD	8, 6-1/2 and 4-3/4"
	Connection	6-5/8 Reg, 4-1/2 IF, 3-1/2 IF
K9	<u>Junk Mills</u>	
	Number	(4)
	Make	Logan
	Type	Flat, Junk, Flat and Flat
	OD	15, 12, 8-1/4 and 5-3/4"
	Connection	7-5/8 Reg, 6-5/8 Reg, 4-1/2 Reg, 3-1/2 Reg
K10	<u>Taper Taps</u>	Verifier
	Number	(1)of each
	Make	Logan
	Type, OD, & Connection	6-1/8" OD (4-3/4 – 3-1/4 Wickers) w/ 4-1/2" IF 4-3/4" OD (2-3/16 – 3-11/16 Wickers) w/ 3-1/2 IF

SECTION L: FIRE CONTROL, SAFETY EQUIPMENT AND FIRST AID EQUIPMENT

ITEM NO.	DESCRIPTION	SPECIFICATION
L1	<u>Safety Clothing</u>	
	Description	(30)Work Coverall Bugatti with Dietswell logo T2 (70)Work Coverall Bugatti with Dietswell logo T3 (70)Work Coverall Bugatti with Dietswell logo T4 (70)Work Coverall Bugatti with Dietswell logo T5 (500)Red glove PVC 27cm TU (20)Red glove PVC 70cm TU (25)Mask against dust 9310 FFP1 (Box of 20) (5)Ears protector, ear soft neon (Box of 250) (10)Headphones against noise Viking V3 (150)Security glasses super nylsun SNPI (150)Security glasses Viper VIPCF (2)Emergency shower + eyes washer Kit ABC (10)Harness Titan 2 points 1011891 + Validity certificate (3) Harness Titan 3 points (2)Safety Boot JALASKA P40 (10)Safety Boot JALASKA P41 (23)Safety Boot JALASKA P42 (23)Safety Boot JALASKA P43 (15)Safety Boot JALASKA P44 (5)Safety Boot JALASKA P45 (2)Safety Boot JALASKA P46 (2)Safety shoes JALWOOD P40 (10)Safety shoes JALWOOD P41 (23)Safety shoes JALWOOD P42 (23)Safety shoes JALWOOD P43 (15)Safety shoes JALWOOD P44 (5)Safety shoes JALWOOD P45 (2)Safety shoes JALWOOD P46 (144) White Helmet OCEANIQUE (2000)Cotton white gloves PICOTS
L2	<u>Fire Extinguishers</u>	
	Fire Pump	YES
	Number	(2)
	Make	Groupe Motopompe

	Type	Mobile chassis / with rollers
	Engine	Motor Iveco 2, 9L 65cv
	Flow rate	
	Extinguishers and Fire Blankets	
	Description	(20)Extinguisher Dry powder (9 kilos) (2)Extinguisher Dry powder/ with rollers (50 kilos) (4)Extinguisher CO2 (5 Kilos) (4)Extinguisher CO2 / with rollers (30 Kilos) (5) Fire Blankets (1,2 m x 1,2 m)
	Location	(8) dry powder at HSE store (6) dry powder in offices (1) dry powder at mixing tank (1) dry powder at data log office (2) dry powder at rig floor (1) dry powder at mechanic warehouse (1) dry powder in front of rig sup office
	Fireman Outfits	(6)Firemen's Outfit including Bunket coat-Helmet-Face shield-boots-gloves, SCBA-lights-safety line & Harness-spare air bottles
L3	<u>Gas Protection - Description and Quantity & Breathing Apparatus</u>	(1)Detector Drager X - am 2000 for gas; Ex-O2-H2S-CO (1)Battery NiMh + Detector charger Kit Drager X-am 2000 (10)Half Evacuation Filter mask Drager Parat 3100 (20)Filters for Parat 3100 (50)Sealing Joint for Parat 3100 (1) Security plomb for Parat 3100 (10)Breathing insulator equip. Drager SAVER CF10 (10) Boxes for CF10 (10)Breathing insulator equipment PA94+ (10)Panoramic mask NOVA P (10) Boxes for NOVA P (10)Aluminum 6 liters Bottles 200 bar
L5	<u>Sick Bay and First Aid Equipment - Description & Quantity</u>	
L5.1	Hospital / Sickbay	(1)Evac-U-Splint EVS 9075-6 75 cm (1)Basket qtretcher #JSA-300 (1)Aluminium Stretcher #JSA-400 (2)Stifneck Extrctg Cllr No Nck (2)Stifneck Extrctg Cllr shrt (2)Stifneck Extrctg Cllr Reg

		<ul style="list-style-type: none"> (2)Stifneck Extrctg Cllr Tall (1)Air Splint 6 pc Kit (6)SAM Splint Bl/Orn (6)Splint Waterproof 12" Disp Orn (4)Oxygen Tank Alum Empty D (2)Pocket Mask W/O2 Inlt Vlv Fil (3)Airway Replacement Guedel 80 mm (3)Airway Replacement Guedel 90 mm (3)Airway Replacement Guedel 100 mm (3)Airway Replacement #1166 (1)V Vac Starter Kit 985000 (1)V Vac Replacement Cartridge (2)Professional Classic Steth Blk (1)Sphyg Wall Mount #750 W (1)Hand Aneroid (1)Mini 2000 Pocket Diag Set (1)Penlight Diagnostic Disp Moore (pk of 5) (3)Digital Thermometer (2>Lister Bndg Sciss 5 1/2" (1)Wash Basin SS (1)Emesis Basin 26oz SS (2)Tissue Frcp 5" 1/2 Teeth Val (2)Halsey Needle Holder 5" SS (2)Iris Scissor 4 1/2" SS Crv Val (2)Halstead MSQt 5" Crv HLM/Ger (2)Instrument Tray w/Hnd Crv SS (2)Scissors 7 1/4" Medicut blk (1)Dry Heat Sterilizer #S500 DS (1)Microplate Incubator tb-004 DS (1)Ultra Trauma Pack Ryl (1)Webril Bandage 6x4 #3489 (3)Econ Gloves Latex Pwd Lrg (box 100) (10)C Thru Mask Hud 1041 Elong (2)CPR Filtershield (2)Water Jel Fire Blkt 7260-04 (3)Water Jel Brun dressing 18x8 (1)Triangular Bandage #4910 (2)Stainless Disp Scalpel #10 (box 10) (1)Tourniquet Latex (pk 10) (3)Sharps-A-Gator 1gal Collector (1)Minor Laceration Pack W/Inst (CT 10) (10)Trauma Dressing 3050 HP (7)Versalon Spng 4x4 4Ply #9024 (pk 200) (3)Adaptic Dressing 3x3 #2012 (box 50)
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		(1)Flexicon 3" Conform Bndg NS (box 20) (2)Flexicon 6" Conform Bndg NS (box 20) (1)Tape Curasilk 1/2" #7137 (17529) (box 12) (1)Tape Curasilk 1" #7138 (17530) (box 12) (1)Transpore Tape 1" #1527-1 (box 12) (1)Alcohol Prep Pads MMC ORM (box 200) (1)Tongue Blades Wood Adlt NS MMC (box 500) (1)Suture Nylon 927 2-0 look (box 12) (1)Suture Nylon 925 3-0 look (box 12) (1)Suture Nylon 922 4-0 look (box 12)
L6	<u>Safety Warning Signs</u>	(4)Use Handrails (white rigid plastic: 200 mm X 200 mm) (Arabic + English) (2)Use Lock Out (white rigid plastic: 200 mm X 200 mm) (Arabic + English) (4)Use Welding Equipment (white rigid plastic: 200 mm X 200 mm) (Arabic + English) (4)No Drugs (white rigid plastic: 200 mm X 200 mm) (Arabic + English) (2)No Fishing (white rigid plastic: 400 mm X 400 mm) (Arabic + English) (6)No Swimming (white rigid plastic: 400 mm X 400 mm) (Arabic + English) (4)Do Not Run (white rigid plastic: 400 mm X 400 mm) (Arabic + English) (2)Emergency Shower (rigid plastic photolumiscent: 180 mm X 180 mm) (Arabic + English) (2)Telephone (rigid plastic photolumiscent: 180 mm X 180 mm) (Arabic + English) (4)Smoking Permitted (rigid plastic photolumiscent: 180 mm X 180 mm) (Arabic + English) (4)First Aid Station (rigid plastic photolumiscent: 180 mm X 180 mm) (Arabic + English) (2)Helicopter (rigid plastic photolumiscent: 180 mm X 180 mm) (no writings) (4)General Alarm (rigid plastic photolumiscent: 180 mm X 180 mm) (Arabic + English) (1)Confined Area (white rigid plastic: 200 mm X 200 mm) (Arabic + English) (2)Mosquitoes (white rigid plastic: 200 mm X 200 mm) (Arabic + English) (2)Snakes (white rigid plastic: 200 mm X 200 mm) (Arabic + English) (4)Forklift (white rigid plastic: 200 mm X 200 mm) (Arabic + English) (4)Fire Alarm Call Point (rigid plastic

		<p>photolumiscent: 200 mm X 250 mm) (Arabic + English)</p> <p>(10)Dry Powder (rigid plastic photolumiscent: 200 mm X 250 mm) (Arabic + English)</p> <p>(4)CO2 (rigid plastic photolumiscent: 200 mm X 250 mm) (Arabic + English)</p> <p>(8)Protective Gloves must be worn (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(8)Eye Protection must be worn (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(8)Head Protection must be worn (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(8)Foot Protection must be worn (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(6)Protective Clothing must be worn (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(4)Ear Protection must be worn (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(2)Wear Masks (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(20)No Smoking (white rigid plastic: 200 mm X 250 mm) (Arabic + English) (ref P007)</p> <p>(2)No naked flames (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(2)No entry (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(4)Danger High Voltage (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(1)Danger Overhead Crane (white rigid plastic: 200 mm X 250 mm) (Arabic + English)</p> <p>(2)Lifebuoy with rope (rigid plastic photolumiscent: 150 mm X 150 mm) (No writings)</p> <p>(4)Life Jacket (rigid plastic photolumiscent: 150 mm X 150 mm) (No writings)</p> <p>(2)Diesel Fuel Only (white rigid plastic) (English + arabic)</p> <p>(2)Flammable (white rigid plastic:140 mm X 140 mm) (Arabic + English)</p> <p>(1)Fire Extinguisher color code (white rigid plastic:420 mm X 600 mm) (English)</p> <p>(4)High Pressure signs (rigid plastic photoluminescent: 280 mm X 280 mm) (Arabic + English)</p>
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SECTION M: MAIN CAMP AND RIG CAMP

ITEM NO.	DESCRIPTION	SPECIFICATION
M1	Main Camp - Full description	N/A
	Senior staff quarters	
	Junior staff quarters	
M2	Rig Camp	
	Sleeping caravan for Company	One 20 ft caravan with one bed , sanitary , desk , chair , changing locker , television , fully air conditioned
	Sleeping caravan for Contractor	One 20 ft caravan with one bed , sanitary , desk , chair , changing locker , television , fully air conditioned
	COMPANY office for Toll pusher, radio room + toilets / mechanic and electrician office	One (1) BARONE container twin offices complete divided in two: -One (1) tool-pusher office; fully air conditioned & heated, furnished with two (2) desks & chairs, one (1) offices filing cabinets, one (1) sink & one (1) fridge / Attached radio room and material coordinator office -One (1) mechanic and electrician chef office; fully air conditioned & heated, furnished with two (2) desks & chairs and two (2) offices filling cabinets, one (1) drinking water dispenser
	COMPANY office for Services companies / toilets	One (1) BARONE container twin offices complete for services companies, fully air conditioned & heated, furnished with three (3) office filing cabinets, three (3) desks & chair, and one (1) drinking water dispenser + one (1) Common central toilets with three (3) compartments
	Company office for Company Man	(1) BARONE container office complete for company man fully air conditioned & heated, furnished with desks & chairs, office filing cabinets, changing lockers, one (1) sink & one (1) fridge, one (1) drinking water dispenser, one (1) toilets and one (1) sofa
	Company office for Safety officer / Medical center / Coffee shop	(1) BARONE container office complete divided in three: -One (1) Safety officer: fully air conditioned furnished with one (1) desk & chairs

		-One (1) Medical center fully air conditioned, furnished with one (1) desk & chairs, one (1) patient's bed, one (1) office filling cabinet, all medic equipment and one (1) skid and toilets -One (1) Coffee shop
	Meeting room + prayer room	(1)BARONE container office complete divided in two: -One (1) Meeting room fully air conditioned, furnished with one (1) desk & seven (7) chairs + TV and DVD -One (1) prayer room
	Workshop	-Mechanic workshop and store
	Warehouses	-Mechanic Store -Electric Store -Drilling store - HSE store + Rubber store
	Radio room & equipment	-(1)VHF System 136 – 174 MHz, 5 watt PL/DPL/CSQ -(1) HF SSB System -(1) Becker Air Traffic Control TG 460 – 10 watt -(1) Ground plane Antenna 116 – 152 MHz -(1) 3db Roof Top Mount Antenna / AM Aeronautic System
M3	<u>Power</u>	N/A
	For main camp - full description.	
M4	<u>Water-Main Camp</u> - Tanks, capacities, treatment facilities etc. (full description)	N/A
M5	<u>Water - Rig Camp</u> - Tanks capacities, treatment facilities etc. (full description)	N/A
M6	<u>Communications</u>	
	Inter Rig System - Locations.	-(1) each, normal inter-telephone system at: Rig Sup office, Radio room, Medic room, Safety room, Mechanic / Electric office, Service Company office, Company Man office, Shale Shaker, Active Tank, Meeting room. -(1) each, talk back system at: Drillers Cabin room, BOP & trailers engine.
M7	Sewage treatment Main Camp and Mini Camp	N/A
	Sewage Treatment Units Red Fox or Blue Dolphin or Other	

SECTION N: TANK STORAGE AND TRANSPORT

ITEM NO.	DESCRIPTION	SPECIFICATION
N1	<u>Fuel Tank(s)</u>	Fuel storage tank 25 m3 capacity, size: W 2.4m L 6m H 2m Fuel Storage tank 11 m3 capacity, size: W 2.4m L 6m H 1m
N2	Personnel Transport	N/A
	Vehicles - description.	N/A
N3	Transport and lifting equipment - Details and Description	
All necessary lifting equipment to efficiently Rig up, Rig down and handle all CONTRACTOR'S and COMPANY furnished materials, equipment and supplies at the LOCATION.		
N3.1	<u>Crane</u> : Details	NA
N3.2	<u>Forklift truck</u> – Details	NA
N4	<u>Water Tanks</u>	
N5	Water Pumping Eqpmt. - Primary Rig Supply	
N5.1	<u>Pumps</u>	NA
N5.2	<u>Water Line</u>	
	Amount	
	Size	
	Connections	
N5.3	<i>Other Equipment</i>	
	Catwalk	Yes
	Pipe Ramp	Yes
	Pipe Racks	Yes
	Slings and Shackles, lengths, size, certification.	

N5.4	<u>Lighting- Description</u>	(5) Light Mat Type BMT 2076-10, 10m Height and 281 Kg / Galvanized. (1) Obstruction light low intensity for obstacles height lower than 45m. Fixed red light, intensity 10 candelas / 230ACV. Double light: 1 head in operation, 1 head in day before, automatic swing. With two lamps E27 55W 8000 hours.n281 Kg / Galvanized. (8)XFF 165 light assy Fluorescent DTS 230V / 50 Hz
N6	Water Pumps - Rig Service	
	Number of centrifugal pumps & locations	(1)Pump Submersible Type FLYGT BS 2660 MT 226 10kw (1)Pump Submersible Type FLYGT BS2640 HT 251 5.6kw
	Separate brake cooling system	No
	Separate brake cooling pumps	No
	Fire fighting pump with independent engine	(2) Motopompe Iveco 2,9l 65HP

SECTION O: SPARE PARTS

Please find here after an indicative list of spares parts.

ITEM NO.	DESCRIPTION	SPECIFICATION
O1	CONTRACTOR to list availability of all spare parts necessary for his equipment needs.	Mechanic Warehouse: <u>1.Centrifugal Pump:</u> -(2) Bearing -(12) Studs -(2) Water slingers -(2) Oil seal -(1) Nut -(1) Flask -(2) Lateral ring <u>2.Mud Pumps:</u> -(1) Offset link 1-1/2" -(1) Offset pin link 1-1/2" -(1) Chain 1-1/2" <u>3.Air Compressor:</u> -(5) Gasket -(1) Thermostat -(1) Fan assembly -(16) O ring -(1) Bypass Valve -(6) Valve -(3) Bolt -(2) Bearing -(4) Shims -(11) Screws -(1) Fitting -(1) Universal Kit -(8) Separator Air / Oil -(3) Air Filter -(1) Circuit Breaker -(1) Contactor -(1) Relay -(1) Relay overload -(6) Filter -(1) Breaker -(1) Motor Breaker -(1) Vac Pressure -(1) Sensor -(1) Repair Kit -(2) Set shims

		<ul style="list-style-type: none">-(1) Sensor Kit-(8) Oil filter<u>4.Fuel Pump:</u>-(1) Bearing-(3) Seal-(4) O ring-(1) Plug<u>5.Fire Pump:</u>-(7) Fuel Filter IVECO-(8) Oil Filter IVECO-(8) Oil Filter-(3) Thermostat-(2) Belts-(5) Air Filter-(5) Resistance-(2) Water Pump-(1) Fan<u>6.Manitou:</u>-(8) Belt V-(17) Hydraulic Valve-(3) Weprapar-(1) Chain-(22) O ring Seal Oil-(2) Rexroth Valve-(2) Hydraulic pipe line-(1) Engine Valve s/d-(16) Air Filter-(1) Fan-(28) Hydraulic Hose-(200) Bolts with Nuts-(100) Washer<u>7.Agitators:</u>-(12) Bearing-(1) Pinion-(1) Clip-(21) Shim-(4) Plug-(2) Nylon rig-(6) Ring-(6) Seal-(2) Oil Seal-(2) Packing-(6) Gasket-(2) Flasket
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8. Koomey:

- (2) Gauge 6000 psi
- (3) Rod Bearing
- (2) Crankshaft Bearing
- (1) Packing Triple Pump
- (1) Repair Kit
- (1) Repair Kit By pass Valve
- (2) Seal Kit air cylinder
- (2) Valve
- (2) Bladder
- (1) Liner air pump
- (1) Repair kit 7-3/8"
- (1) Repair Kit
- (1) Poppet valve

9. Swaco:

- (13) Connections
- (2) Manometer
- (1) Hydraulic Pump
- (2) Diaphragm
- (1) Seal Ring
- (1) Elbow
- (1) Two positions valve
- (1) Position Indicator
- (3) Disks
- (5) Repair Kit valve
- (1) Hydraulic regulator
- (2) Air regulator
- (1) Muffler
- (1) Filter

10. Detroit Diesel pumps:

- (7) Pressure pipe
- (2) Water pump
- (24) Gasket
- (15) Joint
- (4) Temperature captor
- (2) Speed captor
- (12) Injector
- (1) Oil pump
- (1) Speed sensor
- (15) Seal
- (3) Hose
- (1) Sensor
- (1) Sensor Turbo boot
- (3) Plug Seal assembly

- (6) Thermostat
- (2) Pressure sensor
- (12) Injection pump
- (1) Belt
- (6) Garniture
- (12) Seal joint
- (6) Pressure conduct
- (4) Cooper gasket
- (1) Dispositive
- (1) Fuel Pump
11. Caterpillar:
- (3) Bearing
- (2) Adapter
- (24) Seal lines
- (1) Pump GP
- (3) Cartridge kit
- (1) O ring
- (171) Seals
- (3) Lines
- (9) Injection lines
- (2) Kit
- (93) Gasket
- (1) Crown assembly piston
- (2) Rebuild kit
- (14) Gasket kit
- (1) Hose
- (1) Skirt Piston
- (5) Bearing main
- (1) Nuts
- (1) Cylinder
- (1 set) Valve
- (17) Belts
- (8) Lock
- (2) Pump GP
- (4) Pulley
- (1) Sleeve
- (2) Plate
- (2) Washer
- (1) Hub
- (1) Clamps
- (5) Bearing rod
- (2) Bearing kit
Electronic Warehouse:
1. Autelec:

		<ul style="list-style-type: none"> - (1) Interface Module - (3) Electronic component - (1) Central ZERO - (1) Central ZERO LEFT - (1) Electronic Cart - (1) Joystick controller - (1) Electric remote control <u>2. Lighting:</u> - (1) Light type FLE 2*18W - (4) Light type FLE 2*36W - (1) Light type FLE 2*36W Safe block - (2) Light for mast 1*36W - (24) Projector's amp - (14) Tube lighting 18W - (190) Tube lighting 36W - (2) Offices exterior amp <u>3. Cables:</u> - (475m) Cable fire & gas - (80m) Flexible black cable - (1760m) Flexible grey cable - (1000m) Grounding cable 70 mm² - (300m) Cable for telephone and informatics - (600m) Cable fibre optic - (2) Generator battery - (1) Battery for fire pump <u>4. Changeable:</u> - (4 boxes) Shell for 240mm cables - (5 boxes) Shell for 70mm cables - (3) Assortment - (5) Plastic collar - (10) Metal brush - (10) Cutter of security for retractable blades - (10) Blades for change - (5) Bovine for welding - (1) Pumps for welding - (1) Kit - (1) Mechanic finger - (10) Piles LR6 - (3) Piles LR20 - (1) Piles LR03 - (2) Piles LR14 - (50) Sealing Collars SERFLEX 10/16 - (50) Sealing Collars SERFLEX 16/25 - (25) Sealing Collars SERFLEX 25/40
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		-(25) Sealing Collars SERFLEX 40/60 -(25) Sealing Collars SERFLEX 60/80 -(25) Sealing Collars SERFLEX 80/100 -(1) Box of 20 changeable plugs 5. Divers: -(6) Contactor 3KW -(3) Contactor 4KW -(4) Contactor 5.5KW -(2) Contactor 11KW -(9) Contactor 15KW -(2) Contactor 18.5KW -(2) Contactor 22KW -(2) Thermal relay -(3) Contactor -(1) Transformer -(1) Repair Kit -(12) Fiches USA -(13) Prises USA -(12) Red led -(10) Green led -(3) Head for red led -(2) Head for green led -(8) Fusible 250 V AC 20A -(9) Fusible 600 V AC-DC 1A -(6) Fusible 250 V AC 3A -(40) Fusible 4A 10/38 GG -(40) Fusible 4A 10/38 AM -(40) Fusible 2A 10/38 GG -(40) Fusible 2A 10/38 AM -(8) Amp 12V 10W -(45) Amp 240 V 3-4 W -(1) Pump 220V 50 HZ 0,37kw 550w
O2	<u>Tarpaulins</u>	N/A
	CONTRACTOR shall provide in accordance with COMPANY'S requirement.	



CABOT 900 MOBILE RIG

DRILLING RIG & ASSOCIATED
SERVICES
JUNE 2010
Prepared by : Skander Chebil

SECTION P: OTHER CONSUMABLES

ITEM NO.	DESCRIPTION
P1	<p><u>Lubricants for CONTRACTOR'S EQUIPMENT</u></p> <ul style="list-style-type: none">-(30 futs) RIMULA X 15W40 F 209 L-(5 futs) SPIRAX A 80W90 F 209-(16 barrels) OMALA 220 T 55 L-(10 futs) TELLUS 32 F 209 L-(3 futs) TELLUS T 46 F 209 L-(2 futs) DONAX TD F 209 L-(5 barrels) RETINAX HD 2 T 50 K-(2 boxes) RETINAX EP2 Cart de 12w0.400-(2 boxes) RETINAX HDX2 Cart de 12w0.400-(3 futs) RIMULA X 30 F 209 L-(4 boxes) ALVANIA RL2 Cart 12x0.400-(1 box) Start one ULTRA 300 MI x 12-(15 futs) Anatifreeze PREMIXED F 208 L
P2	<p><u>Dope, Rope and Soap</u> : For CONTRACTOR'S equipment</p>