



# RIG AND EQUIPMENT SPECIFICATION FOR SSV LOUISIANA

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<b>A. Unit Specifications</b>		
Unit Name	txt	LOUISIANA
Rig Type	txt	MODU-Semi Sub
Unit / Design / Shape	txt	SHELL 6 Columns Stabilized
Unit Flag	txt	Liberia
Unit Classification	txt	LLOYD'S REGISTER OF SHIPPING
IMO Certification	yes / no	YES
Which Code Version	txt	MODU 1979
Year of Construction	AAAA (date)	1982
Construction Yard	txt	Rauma Repola RR-18
Type of Positioning System	(anchor / dp / combined)	DP
<b>A.1 MAIN DIMENSIONS / TECHNICAL DESCRIPTION</b>		
Weight (light ship)	lt	16295,00
Displacement at loadline	lt	26358,00
Draft at loadline (deepest)	ft	60,70
Overall length of unit (including anchor racks)	ft	294,55
Overall width of unit (including anchor racks)	ft	215,55
Main deck length	ft	251,31
Main deck width	ft	214,90
Main deck elevation above baseline	ft	107,02
Number of main columns	number	4
Main columns diameter	ft	35,43
Number of small columns	number	2
Small columns diameter	ft	27,89
Drilling draft	ft	60,70
Drilling draft related displacement	lt	26358,00
Drilling draft associated airgap	ft	25,00
Transit draft	ft	30,18
Transit draft related displacement	lt	19799,00
Transit draft associated airgap	ft	55,51
Moon pool width	ft	22,97
Moon pool length	ft	66,93
Maximum opening through speder deck	ft	22,97
Pontoon length	ft	294,55
Pontoon breadth	ft	215,55
Pontoon height	ft	28,28
Maximum substructure / Rotary Load	lbs/lbs	1600000,00
Fuel Consumption (drilling)	bbbl/day	188,7
Accommodation for (beds)	number	160
<b>A.2 STORAGE CAPACITIES</b>		
Fuel	bbbl	23930,00
Drilling water	bbbl	11218,51
Potable water	bbbl	3180,13
Active liquid mud	bbbl	4000,00
Mud processing tank	bbbl	N/A
Reserve liquid mud	bbbl	1899,00
Bulk bentonite/barite	ft3	10594,00
Bulk cement	ft3	10594,00
Sacks storage	sacks (number)	3000
Pipe racks area	ft2	4197,00
Load bearing capacity (Pipe)	lb/ft2	52207,00
Riser rack area	ft2	4639,00
Load bearing capacity (Riser)	lb/ft2	52207,00
Miscellaneous storage area	ft2	5715,00
Brine storage	bbbl	3000
Heavy brine accepted (e.g. bromide)	yes / no	YES
Base oil storage	bbbl	1100,00
Oil base mud storage	bbbl	N/A
Ballast system (or preload)	bbbl	N/A
<b>A.3 PROPULSION / THRUSTERS</b>		
<b>A.3.1 IN-LINE PROPULSION</b>		
Shafts	number	N/A
Motors per shaft	number	N/A
Motors make (shaft)	txt	N/A
Motors type (shaft)	txt	N/A
Total HP per shaft	hp	N/A
Propeller type (shaft)	fixed / variable blade	N/A
Nozzled (shaft)	yes / no	N/A
<b>A.3.2 THRUSTERS</b>		
Quantity	number	9
Fixed / Azimuthing	fixed / azimuthing	3 x Tunnel and 6 x azimuth
Motors per Thruster	number	1
Motors make (Thruster)	txt	Brush
Motors type (Thruster)	txt	VML560/33
Total HP per Thruster	hp	2400
Propeller type (Thruster)	fixed / variable blade	variable blade
Nozzled (Thruster)	yes / no	YES (Only for Azimuth)
<b>A.3.3 DYNAMIC POSITIONING</b>		
Make (DP)	txt	Kongsberg
Model (DP)	txt	K-POS DP 31
Full DP	yes / no	yes
Position Reference	txt	DGPS X 2 ( DPS 5D & DPS 232 ), HIPAP 351 X 3 + HAIN X 2
Software Version	txt	DPS 5D= 1.03.01; DPS = 7.00.2; HIPAP = 3.3.0; HAIN= 3.6.2
Redundancy Type	txt	Triple redundant
IMO/ABS Equipment Class	Class I/II/III	Class II
Attached Data Logger Available	yes / no	yes
External Data Port (Serial/Ethernet/etc ...) Available on Data Logger	yes / no	yes
Which (external data port)	txt	Ethernet
Software Protocols Available on External Data Port (OPC,WITS,WITSML,Profibus,Modbus,Canbus, etc...)	txt	OPC
Serial/Parallel Port for Alarm Printer Available	yes / no	no
<b>A.4 OPERATIONAL CAPABILITIES</b>		
Maximum designed water depth capability	ft	6561,68
Outfitted max. Water depth capability	ft	6233,6
Normal min. Water depth capability	ft	1640,42

<b>A. Unit Specifications</b>		
Drilling depth capability (rated)	ft	25000,00
Transit speed towed (historical avg)	knots	3
Transit speed self propelled (historical avg)	knots	2
<b>A.5 VARIABLE LOADING (VL)</b>		
Transit VL	lt	4000
Drilling VL	lt	4000
Survival VL	lt	4000
<b>A.6 ENVIRONMENTAL LIMITS</b>		
<b>A.6.1 DRILLING</b>		
Air gap (below main deck) (drilling)	ft	25,00
Max. Wave height (drilling)	ft	24,93
Max. Wave period (drilling)	sec	
Max. Wind velocity (drilling)	knots	50,00
Max. Current velocity (drilling)	knots	3,00
Max. Heave (double amplitude) (drilling)	ft	11,50
Max. Pitch (double amplitude) (drilling)	degrees	4
Max. Roll (double amplitude) (drilling)	degrees	4
<b>A.6.2 SURVIVAL</b>		
Air gap (below main deck) (survival)	ft	43,86
Max. Wave height (survival)	ft	49,21
Max. Wave period (survival)	sec	
Max. Wind velocity (survival)	knots	100,00
Max. Current velocity (survival)	knots	3,00
Max. Heave (double amplitude) (survival)	ft	11,50
Max. Pitch (double amplitude) (survival)	degrees	4
Max. Roll (double amplitude) (survival)	degrees	4
<b>A.6.3 TRANSIT</b>		
Air gap (below main deck) (transit)	ft	55,51
Max. Wave height (transit)	ft	24,93
Max. Wave period (transit)	sec	
Max. Wind velocity (transit)	knots	70,00
Max. Current velocity (transit)	knots	3,00
Max. Heave (double amplitude) (transit)	ft	11,50
Max. Pitch (double amplitude) (transit)	degrees	2
Max. Roll (double amplitude) (transit)	degrees	2
<b>A.7 MOORING SYSTEM</b>		
<b>A.7.1 ANCHOR WINCHES</b>		
Quantity (anchor winches)	number	N/A
Anchor winches make	txt	N/A
Anchor winches model	txt	N/A
Anchor winches type	electric / hydraulic / diesel	N/A
Motors per winch	number	N/A
Total HP per winch	hp	N/A
Rated pull	lt	N/A
Speed low gear	ft/min	N/A
Test load	lt	N/A
Control locations	local / remote / both	N/A
Emergency release type	txt	N/A
Emergency release location	txt	N/A
<b>A.7.2 FAIRLEADS</b>		
Quantity (fairleads)	number	0
Make (fairleads)	txt	N/A
Free rotating range	degrees	N/A
<b>A.7.3 ANCHORS</b>		
<b>A.7.3.1 ANCHORS - PRIMARY</b>		
Quantity (anchor - primary)	number	N/A
Make (anchor - primary)	txt	N/A
Type (anchor - primary)	txt	N/A
Weight (anchor - primary)	lt	N/A
<b>A.7.3.2 ANCHORS - SPARE</b>		
Quantity (anchor - spare)	number	0
Make (anchor - spare)	txt	N/A
Type (anchor - spare)	txt	N/A
Weight (anchor - spare)	lt	N/A
<b>A.7.4 ANCHORS LINES</b>		
<b>A.7.4.1 WIRE</b>		
Quantity (installed) (wire)	number	N/A
Quantity (spare) (wire)	number	N/A
Make (wire)	txt	N/A
Type (wire)	txt	N/A
Specification (wire)	txt	N/A
Diameter (wire)	in	N/A
Weight per unit length (wire)	lbs/ft	N/A
Useful length (nominal) (wire)	ft	N/A
Classification (wire)	txt	N/A
Breaking strength (wire)	lt	N/A
<b>A.7.4.2 CHAIN</b>		
Quantity (installed) (chain)	number	N/A
Quantity (spare) (chain)	number	N/A
Make (chain)	txt	N/A
Type (chain)	txt	N/A
Specification (chain)	txt	N/A
Diameter (chain)	in	N/A
Weight per unit length (chain)	lbs/ft	N/A
Useful length (nominal) (chain)	ft	N/A
Classification (chain)	txt	N/A
Breaking strength (chain)	lt	N/A
<b>A.7.5 ANCHOR LINE RUNNING &amp; RETRIEVAL SYSTEM</b>		
Primary type	pennant-buoy / chaser	N/A
<b>A.7.5.1 PENNANT LINES</b>		
Quantity (pennant lines)	number	2
Make (pennant lines)	txt	NA
Type (pennant lines)	txt	NA
Length (pennant lines)	ft	45

<b>A. Unit Specifications</b>		
Diameter (pennant lines)	in	3"
<b>A.7.5.2 ANCHOR BUOYS</b>		
Quantity (anchor buoys)	number	NA
Volume each (anchor buoys)	ft3	NA
Type (anchor buoys)	txt	NA
Foam filled (anchor buoys)	yes / no	NA
<b>A.7.5.3 CHASER</b>		
Quantity (chaser)	number	NA
Make (chaser)	txt	NA
Type (chaser)	txt	NA
<b>A.7.6 TOWING GEAR</b>		
Towing bridle size	in	3"
Hook-up system	txt	SHACKLE TO HARD-EYE
Rating	lt	78,74
Power requird for infield tow	bollard pull lt	78,74
Power requird for ocean tow	bollard pull lt	78,74
Spare bridle	yes / no	YES
<b>A.7.7 SUPPLY VESSEL MOORING LINES</b>		
Locations	port / stbd / both	NA
System	txt	NA
Rating	lt	NA
<b>A.8 MARINE LOADING HOSES</b>		
Locations of loading manifolds	port / stbd / both	both
<b>A.8.1 POTABLE WATER HOSE</b>		
Quantity (potable water)	number	3
Size (potable water)	in	4
Make (potable water)	txt	DOCKFLEX
Type (potable water)	txt	STEEL RE-INFORCED RUBBER
Color coding (potable water)	yes / no	Yes
Connection Make (potable water)	txt	Weco
Connection Type (potable water)	txt	Weco
<b>A.8.2 DRILLING WATER HOSE</b>		
Quantity (drilling water)	number	3
Size (drilling water)	in	4
Make (drilling water)	txt	DOCKFLEX
Type (drilling water)	txt	STEEL RE-INFORCED RUBBER
Color coding (drilling water)	yes / no	Yes
Connection Make (drilling water)	txt	Weco
Connection Type (drilling water)	txt	Weco
<b>A.8.3 GAS OIL HOSE</b>		
Quantity (gas oil)	number	3
Size (gas oil)	in	4
Make (gas oil)	txt	DOCKFLEX
Type (gas oil)	txt	STEEL RE-INFORCED RUBBER
Color coding (gas oil)	yes / no	Yes
Connection Make (gas oil)	txt	Weco
Connection Type (gas oil)	txt	Weco
<b>A.8.4 MUD CHEMICAL HOSE</b>		
Quantity (mud chemical)	number	3
Size (mud chemical)	in	4
Make (mud chemical)	txt	DOCKFLEX
Type (mud chemical)	txt	STEEL RE-INFORCED RUBBER
Color coding (mud chemical)	yes / no	Yes
Connection Make (mud chemical)	txt	Weco
Connection Type (mud chemical)	txt	Weco
<b>A.8.5 CEMENT HOSE</b>		
Quantity (cement)	number	3
Size (cement)	in	4
Make (cement)	txt	DOCKFLEX
Type (cement)	txt	STEEL RE-INFORCED RUBBER
Color coding (cement)	yes / no	Yes
Connection Make (cement)	txt	Weco
Connection Type (cement)	txt	Weco
<b>A.8.6 BASE OIL HOSE</b>		
Quantity (base oil)	number	3
Size (base oil)	in	4
Make (base oil)	txt	DOCKFLEX
Type (base oil)	txt	STEEL RE-INFORCED RUBBER
Color coding (base oil)	yes / no	Yes
Connection Make (base oil)	txt	Weco
Connection Type (base oil)	txt	Weco
<b>A.8.7 BRINE HOSE</b>		
Quantity (brine)	number	3
Size (brine)	in	4
Make (brine)	txt	DOCKFLEX
Type (brine)	txt	STEEL RE-INFORCED RUBBER
Color coding (brine)	yes / no	Yes
Connection Make (brine)	txt	Weco
Connection Type (brine)	txt	Weco
<b>A.9 CRANES, HOIST AND MATERIALS HANDLING</b>		
<b>A.9.1 CRANES, REVOLVING, MAIN</b>		
Quantity	number	1
Specification (API, etc.)	txt	50T (API 2C)
Make	txt	LIEBHERR
Type	txt	ELETRO HYDRAULIC - BOS-50/1450
Location	stbd / port / aft / frwd	PORT MID
Boom length	ft	108,27
Hook reach below main deck (block)	ft	107,02
Hook reach below main deck (whip)	ft	107,02
Block capacitie/hoisting speed - Load / radius / speed (minimum radius)	lt/ft/(ft/sec)	49,21/21,33/0,66
Block capacitie/hoisting speed - Load / radius / speed (maximum radius)	lt/ft/(ft/sec)	29,52/101,7/0,66
Whip capacitie/hoisting speed - Load / radius / speed	lt/ft/(ft/sec)	/ /6,89
Hook load indicator automatically corrected for boom angle	yes / no	YES
Alarm	audible / visual / both	BOTH

<b>A. Unit Specifications</b>		
Automatic brake	yes / no	Yes
Safety latch on hooks	yes / no	Yes
Crown saver (limit switch)	yes / no	Yes
Boom illumination	yes / no	Yes
Baskets for personal transfer	number	2
<b>A.9.1 CRANES, REVOLVING, SECONDARY</b>		
Quantity	number	2
Specification (API, etc.)	txt	38T (API2C) - 25T (API2C)
Make	txt	LIEBHERR - LIEBHERR
Type	txt	DIESEL HYDRAULIC - BOS 25(50)/1000D ELECTRO HYDRAULIC - BOS 25/700
Location	stbd / port / aft / frwd	STBD-MID / STBD-AFT
Boom length	ft	98,43 - 108,27
Hook reach below main deck (block)	ft	107,02 -
Hook reach below main deck (whip)	ft	107,02 -
Block capacity/hoisting speed - Load / radius / speed (minimum radius)	lt/ft/(ft/sec)	37,49/24,9/9,8 -
Block capacity/hoisting speed - Load / radius / speed (maximum radius)	lt/ft/(ft/sec)	19,29/98,43/9,8 -
Whip capacity/hoisting speed - Load / radius / speed	lt/ft/(ft/sec)	/ /9,8 -
Hook load indicator automatically corrected for boom angle	yes / no	Yes - Yes
Alarm	audible / visual / both	BOTH - BOTH
Automatic brake	yes / no	No - No
Safety latch on hooks	yes / no	Yes - Yes
Crown saver (limit switch)	yes / no	Yes - Yes
Boom illumination	yes / no	Yes - Yes
Baskets for personal transfer	number	1
<b>A.9.3 FORKLIFTS</b>		
Quantity	number	2
Make	txt	HYSTER
Type	txt	H40 FTS
Rated capacity	lbs	4000
Explosion proof	yes / no	NO
<b>A.9.4 MONORAIL OVERHEAD CRANES</b>		
Quantity	number	2
Make	txt	Hydra lift
Type	txt	T1123-MA-01
Rated capacity	lt	Gantry 39,4lt swl/BOP 98,42lt swl
Location	txt	FWD CENTRE/Aft midship.
<b>A.9.5 BOP HANDLING SYSTEM</b>		
<b>A.9.5.1 BOP LOWER STACK HANDLING SYSTEM</b>		
Make	txt	A.S. NORMAR
Type	txt	F2496-10159
Rated capacity	lt	200
<b>A.9.5 BOP LMRP HANDLING SYSTEM</b>		
Make	txt	Hydralift
Type	txt	T-1126-02 94
Rated capacity	lt	98,42
<b>A.9.6 AIR HOISTS / DERRICK WINCHES</b>		
<b>A.9.6.1 RIG FLOOR WINCHES (NON MAN-RIDING)</b>		
Quantity	number	3 ( 1 FWD / 1 STBD AFT / 1 PORT AFT)
Make	txt	Ram Winch / Ram Winch / Ram Winch
Type	txt	AW3-24 / K6UAL / K6UAL
Rated capacity	lt	9,82 / 4,46 / 4,46
Wire diameter	in	7/8 - 7/8 - 7/8
Automatic brake	yes / no	no / no / no
Overload protection	yes / no	yes / yes / yes
Automatic spooling	yes / no	no / no / no
<b>A.9.6.2 MONKEY BOARD WORK WINCHES</b>		
Quantity	number	2 (1Port / 1 Stbd)
Make	txt	Ram Winch (Air Winch)
Type	txt	2540-8ABPT
Rated capacity	lt	1,12
Wire diameter	in	3/8
Automatic brake	yes / no	yes
Overload protection	yes / no	yes
Automatic spooling	yes / no	yes
<b>A.9.6.3 RIG FLOOR "MAN-RIDING" WINCH</b>		
Quantity	number	2 (1 Fwd / 1 Aft)
Make	txt	Ram Winch
Type	txt	ML1550 (8ABGBPT)
Rated capacity	lt	0,69
Wire diameter	in	3/8
Non-twist wire	yes / no	yes
Automatic brake	yes / no	yes
Overload protection	yes / no	yes
Automatic spooling	yes / no	yes
Certified for man-riding	yes / no	yes
<b>A.9.6.4 UTILITY WINCH (I.E. DECK WINCH)</b>		
Quantity	number	1
Make	txt	Ram Winch
Type	txt	AW3-24
Rated capacity	lt	9,82
Wire diameter	in	7/8
Automatic brake	yes / no	no
Overload protection	yes / no	no
Automatic spooling	yes / no	no
Certified for man-riding	yes / no	no
<b>A.9.6.5 CELLAR DECK WINCH</b>		
Quantity	number	2 X Air Winches / 2 X Air Winches / 2 X Man Rider Winches
Make	txt	Beebe / RAM / RAM
Type	txt	7RFJ / K6UAL / ML1550 -8ABGBPT
Rated capacity	lt	3,21 / 4,46 / 0,69
Wire diameter	in	1/2 - 7/8 - 3/8
Automatic brake	yes / no	no / no / yes

<b>A. Unit Specifications</b>		
Overload protection	yes / no	yes / yes / yes
Automatic spooling	yes / no	no / no / yes
Certified for man-riding	yes / no	no / no / yes
<b>A.10 HELICOPTER LANDING DECK</b>		
Location	txt	STBD-FWD
Helicopter landing deck length	ft	85,3
Helicopter landing deck width	ft	85,3
Perimeter safety net	yes / no	YES
Load capacity	lt	12,6
Designed for helicopter type	txt	S-92
Tie down points	yes / no	YES
Covered by foam fire system	yes / no	YES
Heli-refueling system type	txt	N/A
Fuel storage capacity	U.S. gals	N/A
Helideck lighting to aviation spec. As required by contry of operation	yes / no	YES
<b>A.10.1 HELICOPTER REFUELING SYSTEM</b>		
Fuel storage capacity	U.S. gals	N/A
Jettisonable	yes / no	N/A
Fuel transport containers	number	N/A
Volume (each)	U.S. gals	N/A
Covered by foam fire system	yes / no	N/A
<b>A.11 AUXILIARY EQUIPMENT</b>		
<b>A.11.1 WATER DISTILLATION</b>		
Quantity	number	2
Make	txt	Alfa Laval
Type	txt	Single stage vacuum evaporation - Dolphin 30
Capacity (total)	ft3/day	1059,44
<b>A.11.2 BOILERS</b>		
Quantity	number	1
Make	txt	Superior Works Inc.
Type	txt	8-X-750-S150-GPCF-P2 (Holman Scotch Boiler)
Capacity (total)	lbs/hr	5185
<b>A.11.3 AIR CONDITIONING</b>		
Quantity	number	2
Make	txt	Carrier (Carlyle)
Type	txt	AHU (5H86-A219)
Capacity (total)	tons	6,3



<b>B. GENERAL RIG SPECIFICATIONS</b>		
<b>B.1 DERRICK AND SUBSTRUCTURE</b>		
<b>B.1.1 DERRICK / MAST</b>		
Make	txt	Branham Industries
Type	txt	Dynamic Beam (API 4A)
Rated for wind speed w/ full set back	knots	DRILLING 50 ; STANDBY 70 ; SURVIVAL 100
Rated for wind speed w/ no set back	knots	100
Height	ft	180 (Clear)
Base length	ft	40
Base width	ft	40
Crown length	ft	18
Crown width	ft	18
Gross nominal capacity	lt	625
Maximum number of lines	no.	14
Ladders with safety cages and rests	yes / no	yes
Plataform for crown sheave access	yes / no	yes
Counter balance, system for rig tongs and pipe spinning tong	yes / no	yes
Lighting system explosion proof	yes / no	yes
<b>B.1.2 RACKING PLATFORM</b>		
Make	txt	Patriot
Type	txt	PMH-B-1400-GA4
Capacity of 5" DP	ft	17000
Capacity of 8" DC	no.	8
Capacity of 9" DC	no.	2
<b>B.1.3 RACKING ARM</b>		
Make	txt	Byron Jackson
Type	txt	Type V
<b>B.1.4 CASING STABBING BOARD</b>		
Make	txt	Aker
Type	txt	70035BF
Adjustable from X heigth above rotary	ft	0
Adjustable to X heigth above rotary	ft	51
<b>B.1.5 SUBSTRUCTURE</b>		
Make	txt	Branham Industries
Type	txt	
Height (above main deck)	ft	32.8
Length	ft	50
Width	ft	40
Setback capacity	lt	256
Simultaneous setback capacity (with simultaneous hookload)	lt	256
Associated hookload (simultaneous setback)	lt	312
Clear height below R/table beams	ft	31
<b>B.1.6 WEATHER PROOFING</b>		
Rig fllor windbreaks height	ft	8
Derrickman windbreaks height	ft	N/A
<b>B.1.7 DERRICK TV CAMERA SYSTEM</b>		
Camera located at:	txt	Derrick
Make	txt	Electro Flow Controls Ltd.
Type	txt	EFC556/558
Zoom	yes / no	yes
Pan	yes / no	yes
Tilt	yes / no	yes
Monitor located at:	txt	Drillers's house
<b>B.2 DRAWWORKS AND ASSOCIATED EQUIPMENT</b>		
<b>B.2.1 DRAWWORKS</b>		
Make	txt	NOV
Type	txt	1625 UDBE
Motors Make	txt	GE
Motors Type	txt	GE752
Motors Quantity	no.	3
Rated input power continuous	hp	2400
Rated output power continuous	hp	N/A
Rated input power maximum	hp	3000
Rated output power maximum	hp	N/A
Drum type	txt	spiral groove
Drum diameter	in	36
Wire diameter	in	1 5/8
Maximum line pull 12 lines	lt	678
Maximum line pull 10 lines	lt	580
Maximum line pull 8 lines	lt	475
Spinning cathead type	txt	N.O.V Type A1
Breakout type	txt	N.O.V Type A1
Crown block safety device make	txt	NOV
Crown block safety device type	txt	Crown-o-matic
Independent fresh water cooling sys for drawworks and electric brake	yes / no	yes
<b>B.2.2 AUXILIARY BRAKE</b>		
Make	txt	Baylor
Model	txt	Elmago 7838
Independent back-up system type	txt	NOV Batery Backup
<b>B.2.3 SANDLINE</b>		
Make	txt	N/A
Length capacity	ft	N/A
Line size	in	N/A
Line type	txt	N/A
Breaking strength	lt	N/A
Safe working load	lt	N/A
<b>B.2.4 WIRELINE</b>		
Make	txt	Mathey
Length capacity	ft	55000
Line size	in	0.092
Line type	txt	slick line
Breaking strength	lt	0.65
Safe working load	lt	0.45
<b>B.2.5 AUTOMATIC DRILLER</b>		
Make	txt	N/A

<b>B.1 DERRICK AND SUBSTRUCTURE</b>		
Type	txt	N/A
<b>B.3 DERICK HOISTING EQUIPMENT</b>		
<b>B.3.1 CROWN BLOCK</b>		
Make	txt	Branham
Type	txt	Cluster
Rated capacity	lt	625
No. Of shaves	no.	7
Sheaves diameter	in	60
Sheave grooved for line size	in	1-5/8
<b>B.3.2 TRAVEL BLOCK</b>		
Make	txt	National
Type	txt	760H650
Rated capacity	lt	580,68
No. Of shaves	no.	7
Sheaves diameter	in	60
Sheave grooved for line size	in	1 5/8
<b>B.3.3 HOOK</b>		
Make	txt	NOV
Type	txt	650
Rated capacity	lt	580
Complete with spring assembly/hook locking device	yes / no	yes
<b>B.3.3 SWIVEL</b>		
Make	txt	National
Type	txt	650
Rated capacity	lt	639,73
Test pressure	psi	5000
Working pressure	psi	5000
Gooseneck and washpipe minimum ID >= 76mm	yes / no	Yes
Left hand pin connection size	in	6 5/8
Access fitting for wireline entry on top of gooseneck	yes / no	yes
<b>B.3.3 DRILLING LINE</b>		
Diameter	in	1 5/8
Type	txt	6 x 26W5 Tuf - Kote
Length (original)	ft	10000
Support frame for drum/cover	yes / no	Yes
Drilling line drum power driven	yes / no	No
Spare reel drilling line	yes / no	Yes
Spare reel location (rig, shore, etc)	txt	Shore
<b>B.3.6 ANCHOR DEAD LINE</b>		
Make	txt	Martin Decker
Type	txt	EB
Weight sensor	yes / no	yes
<b>B.3.7 DRILLING STRING MOTION COMPENSATOR</b>		
Make	txt	Shaffer
Type	txt	600K
Stroke	ft	25
Capacity - compensated	lt	600000 lbs
Capacity - locked	lt	1500000lbs
<b>B.3.8 BLOCK GUIDANCE SYSTEM</b>		
Make	txt	Dreco
Type	txt	Dolly Assembly
<b>B.3.9 RETRACTION SYSTEM FOR TRAVELING BLOCK</b>		
Make	txt	N/A
Type	txt	N/A
<b>B.4 ROTATING SYSTEM</b>		
<b>B.4.1 ROTARY TABLE</b>		
Make	txt	NOV
Type	txt	D-495
Maximum opening	in	49,5
Rated capacity	lt	984,21
Static load capacity	lt	787,37
Rotating load capacity	lt	295,26
Associated RPM (rotating load)	rpm	300
Two speed gearbox	yes / no	yes
Emergency chain drive	yes / no	no
Driven by an electric motor	yes / no	yes
Electric motor make	txt	GE
Electric motor type	txt	GE752
Output power	hp	800
Maximum continuous torque	ft lbs	4166
Drip pan/mud collection system	yes / no	yes
<b>B.4.2 MASTER BUSHING</b>		
Make	txt	Varco
Type	txt	Split
Insert bowls (see G.1.7)	yes / no	Yes
<b>B.4.3 KELLY BUSHING</b>		
Make	txt	N/A
Type	txt	N/A
Lock down assembly	yes / no	N/A
<b>B.4.4 TOP DRIVE</b>		
Make	txt	NOV
Type	txt	TDS-4S
Rated capacity	lt	580
Test pressure	psi	5000
Working pressure	psi	5000
Output power	hp	1130
Maximum continuous torque	ft lbs	50900
Two speed gearbox	yes / no	yes
Maximum rotary speed	rpm	205
Remote operated kelly cock	yes / no	yes
Colling system type	txt	Local Blower
<b>B.4.4.1 TOP DRIVE MAKEOUT/BREAKOUT SYSTEM</b>		
Make	txt	NOV
Type	txt	PH-85
Max breakout torque that can be applied by system	ft lbs	85000

<b>B.1 DERRICK AND SUBSTRUCTURE</b>		
<b>B.5 Drilling System</b>		
Make	txt	NOV
Model	txt	Rig Sense
Software Version	txt	3,21
Attached Data Logger Available	yes / no	yes
External Data Port (Serial/Ethernet/etc ...) Available on Data Logger	yes / no	yes
Which (external data port)	txt	Serial
Software Protocols Available on External Data Port (OPC,WITS,WITSML,Profibus,Modbus,Canbus, e	txt	OPC, WITS, WITSML
Serial/Parallel Port for Alarm Printer Available	yes / no	yes

<b>C. POWER SUPPLY SYSTEMS</b>		
<b>C.1 RIG POWER PLANT</b>		
<b>C.1.1 DIESEL ENGINES</b>		
Quantity	no.	9 / 4
Make	txt	Ruston / Caterpillar
Type	txt	12 RKC / 3516DITA
Maximum continuous power	hp	2682 / 1528
At rotation speed of	rpm	900 /1200
Equipped with spark arrestors	yes / no	Yes / Yes
Mufflers installed	yes / no	Yes / Yes
Total fuel consumption drilling (average)	bbl/day	193 / 83,7
<b>C.1.2 DC - GENERATOR</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
Continuous power	kw	N/A
At rotation speed of	rpm	N/A
Output volts	volts	N/A
<b>C.1.3 AC - GENERATOR</b>		
Quantity	no.	9 / 4
Make	txt	Brush / Caterpillar
Type	txt	BJSHW50-132 / SR-4
Continuous power	kw	2000 / 1140
At rotation speed of	rpm	900 / 1200
Output volts	volts	6000 / 600
<b>C.1.4 SCR SYSTEM</b>		
Number of SCR	no.	5
Make	txt	Ansaldo Ross Hill
Type	txt	M1660
Maximum continuous power (total)	kw	5850
Output volts	volts	660
<b>C.1.5 TRANSFORMER SYSTEM</b>		
Quantity	no.	4
Make	txt	Brush
Type	txt	E6422852
Continuous power (each)	kw	1500
Output volts	volts	440
Frequency	Hz	60
<b>C.1.6 EMERGENCY SHUTDOWN</b>		
Emergency shutdown switches for complete power sys located at:	txt	Engine room 1&2
<b>C.1.7 AUXILLIARY POWER SUPPLY</b>		
Power supply for mud logging unit	yes / no	yes
Output volts	volts	440
Frequency	Hz	60
Current	amps	20
Phase	single / three	three
<b>C.1.8 COMPRESSED AIR SYSTEMS</b>		
<b>C.1.8.1 HIGH PRESSURE</b>		
Quantity	no.	2
Make	txt	H.P Price
Model	txt	W-3
Rated capacity	ft3/hr	6600
Working pressure	psi	2300
Prime mover (electric/diesel) continuous power	hp	75
Air dryers Quantity	no.	2
Air dryers Make	txt	zander
Air dryers Type	txt	HP ADSORPTION AIR DRYER HDAK 40 250
Air dryers Rated capacity	ft3/min	267,2
<b>C.1.8.2 MEDIUM PRESSURE (RIG AIR)</b>		
Quantity	no.	4
Make	txt	Quincy
Model	txt	HELICAL SCREW COMPRESSOR QSI 500 WATER COOLED
Rated capacity	ft3/hr	500
Working pressure	psi	116
Prime mover (electric/diesel) continuous power	hp	125
Air dryers Quantity	no.	2
Air dryers Make	txt	Hankison
Air dryers Type	txt	Dual Tower Regenerative Desiccant (DH 1130)
Air dryers Rated capacity	ft3/min	1130
<b>C.1.8.3 LOW PRESSURE (BULK AIR)</b>		
Quantity	no.	2
Make	txt	Quincy
Model	txt	HELICAL SCREW COMPRESSOR QSI 750 WATER COOLED
Rated capacity	ft3/hr	750
Working pressure	psi	87
Prime mover (electric/diesel) continuous power	hp	200
Air dryers Quantity	no.	1
Air dryers Make	txt	Hankison
Air dryers Type	txt	Dual Tower Regenerative Desiccant (DH-1550)
Air dryers Rated capacity	ft3/min	1550
<b>C.2 GENERATOR</b>		
<b>C.2.1 ENGINE</b>		
Quantity	no.	1 (Emergency Generator)
Make	txt	Caterpillar
Type	txt	3512
Maximum output	kw	915
At rotation speed of	rpm	1200
Starting methods (automatic, manual, air/hydraulic)	txt	Automatic/electrical/air
Max angle of operation	degrees	30,3
<b>C.2.2 AC-GENERATOR</b>		
Quantity	no.	1
Make	txt	Rockweel
Type	txt	A26108000
Maximum output	kw	880
At rotation speed of	rpm	1200

<b>C.1 RIG POWER PLANT</b>		
Output volts	volts	440
Capable of back-feeding power to main bus	yes / no	yes
<b>C.3 PRIMARY ELECTRIC MOTORS</b>		
<b>C.3.1 PROPULSION MOTORS</b>		
Propulsion Motors type	txt	Thrusters - TT - 105/75 (tunnel) & TCNP-105/75 (Compass)
<b>C.3.2 THRUSTER MOTORS</b>		
Quantity	no.	9
Type (AC/DC)	txt	AC
Power of each	MW	1,79
Total power	MW	16,11
<b>C.4 POWER MANAGEMENT SYSTEM</b>		
Make (DP)	txt	Simrad Kongsberg
Model (DP)	txt	SCV-OS
Software Version	txt	6.7 Upgrade 10
Attached Data Logger Available	yes / no	yes
External Data Port (Serial/Ethernet/etc ...) Available on Data Logger	yes / no	yes
Which (external data port)	txt	paralell
Software Protocols Available on External Data Port (OPC,WITS,WITSML,Profibus,Modbus,Canbus, etc...)	txt	N/A
Serial/Parallel Port for Alarm Printer Available	yes / no	N/A

D. DRILLSTRING EQUIPMENT		
D.1 TUBULARS		
D.1.1 KELLYS		
Quantity	no.	N/A
Nominal size OD	in	N/A
Shape type (hexagonal, square, triangular)	txt	N/A
Total length	ft	N/A
Working length	ft	N/A
Connection type	txt	N/A
API classification	txt	N/A
D.1.1 KELLY SAVER SUBS		
Quantity	no.	N/A
Nominal kelly size	in	N/A
Connection type	txt	N/A
API classification	txt	N/A
Protector	yes / no	N/A
D.1.3 DRILL PIPE		
D.1.3.1 DRILL PIPE 5"		
Grade	txt	S135
Total length	ft	3600
Range	txt	2
Weight	lbs/ft	19.5
Internally plastic coated	yes / no	yes
Tool joint OD	in	6 5/8
Tool joint ID	in	3
Tool joint pin length (original)	in	9
Tapered shoulder tool joints (box)	degree	18
Tapered shoulder tool joints (pins)	degree	35
Connection type	txt	4 1/2" IF
Type of hardfacing	txt	N/A
API classification	txt	SPEC 7
Thread protectors	yes / no	yes
D.1.3.2 DRILL PIPE 5 1/2"		
Grade	txt	S-135
Total length	ft	22712
Range	txt	2
Weight	lbs/ft	22
Internally plastic coated	yes / no	yes
Tool joint OD	in	7
Tool joint ID	in	4
Tool joint pin length (original)	in	10
Tapered shoulder tool joints (box)	degree	18
Tapered shoulder tool joints (pins)	degree	35
Connection type	txt	5-1/2" FH
Type of hardfacing	txt	TCS 8000
API classification	txt	SPEC 7
Thread protectors	yes / no	yes
D.1.3.3 DRILL PIPE 5 7/8"		
Grade	txt	N/A
Total length	ft	N/A
Range	txt	N/A
Weight	lbs/ft	N/A
Internally plastic coated	yes / no	N/A
Tool joint OD	in	N/A
Tool joint ID	in	N/A
Tool joint pin length (original)	in	N/A
Tapered shoulder tool joints (box)	degree	N/A
Tapered shoulder tool joints (pins)	degree	N/A
Connection type	txt	N/A
Type of hardfacing	txt	N/A
API classification	txt	N/A
Thread protectors	yes / no	N/A
D.1.3.4 DRILL PIPE 6 5/8"		
Grade	txt	N/A
Total length	ft	N/A
Range	txt	N/A
Weight	lbs/ft	N/A
Internally plastic coated	yes / no	N/A
Tool joint OD	in	N/A
Tool joint ID	in	N/A
Tool joint pin length (original)	in	N/A
Tapered shoulder tool joints (box)	degree	N/A
Tapered shoulder tool joints (pins)	degree	N/A
Connection type	txt	N/A
Type of hardfacing	txt	N/A
API classification	txt	N/A
Thread protectors	yes / no	N/A
D.1.3.5 DRILL PIPE 3 1/2"		
Grade	txt	S135
Total length	ft	4900
Range	txt	2
Weight	lbs/ft	13.5
Internally plastic coated	yes / no	yes
Tool joint OD	in	5 1/2
Tool joint ID	in	2 1/4
Tool joint pin length (original)	in	9
Tapered shoulder tool joints (box)	degree	18
Tapered shoulder tool joints (pins)	degree	35
Connection type	txt	3 1/2" IF
Type of hardfacing	txt	N/A
API classification	txt	SPEC 7
Thread protectors	yes / no	yes
D.1.4 DRILL PIPE PUP JOINTS		
D.1.4.1 KIT 1 (BY OD/ID)		
Tool joint OD	in	7

<b>D.1 TUBULARS</b>		
Tool joint ID	in	4
Weight	lbs/ft	21,9
Connection type	txt	5 1/2" FH
Internally plastic coated	yes / no	yes
Thread protectors	yes / no	yes
Length (a)	ft	5
Quantity (a)	no.	2
Length (b)	ft	10
Quantity (b)	no.	2
Length (c)	ft	15
Quantity (c)	no.	2
<b>D.1.4.2 KIT 2 (BY OD/ID)</b>		
Tool joint OD	in	6 5/8
Tool joint ID	in	3
Weight	lbs/ft	19,5
Connection type	txt	4 1/2" IF
Internally plastic coated	yes / no	yes
Thread protectors	yes / no	yes
Length (a)	ft	5
Quantity (a)	no.	2
Length (b)	ft	10
Quantity (b)	no.	2
Length (c)	ft	15
Quantity (c)	no.	2
<b>D.1.4.3 KIT 3 (BY OD/ID)</b>		
Tool joint OD	in	5 1/2
Tool joint ID	in	2 1/4
Weight	lbs/ft	13,5
Connection type	txt	3 1/2" IF
Internally plastic coated	yes / no	yes
Thread protectors	yes / no	yes
Length (a)	ft	5
Quantity (a)	no.	2
Length (b)	ft	10
Quantity (b)	no.	2
Length (c)	ft	15
Quantity (c)	no.	2
<b>D.1.5 DRILL PIPE CASING PROTECTORS</b>		
Initial stock	no.	no.
Make	txt	N/A
Type	txt	N/A
OD	in	N/A
Instalation tools	manual / hydraulic / none	
<b>D.1.6 HEAVY WEIGHT DRILL PIPE</b>		
<b>D.1.6.1 HEAVY WEIGHT DRILL PIPE - SPIRAL</b>		
Quantity	no.	30
Nominal size OD	in	6 5/8
Weight	lbs/ft	73,6
Range	txt	2
Tool joint OD	in	6 5/8
Tool joint ID	in	3
Type of hardfacing	txt	N/A
Internally plastic coated	yes / no	yes
Connection type	txt	6 5/8" FH
Thread protectors	yes / no	yes
<b>D.1.6.2 HEAVY WEIGHT DRILL PIPE</b>		
Quantity	no.	35
Nominal size OD	in	6 5/8
Weight	lbs/ft	50
Range	txt	2
Tool joint OD	in	6 5/8
Tool joint ID	in	3
Type of hardfacing	txt	N/A
Internally plastic coated	yes / no	yes
Connection type	txt	4 1/2" IF
Thread protectors	yes / no	yes
<b>D.1.7 DRILL COLLARS</b>		
<b>D.1.7.1 KIT 1</b>		
Quantity	no.	10
OD Body	in	9 1/2
ID Body	in	3
Nominal length of each joint	ft	31.3
Drill collar body	slick / spiral	spiral
Recess for "zip" elevator	yes / no	yes
Recess for slips	yes / no	yes
Stress relief pin groove	yes / no	yes
Boreback on box	yes / no	yes
Connection type	txt	7 5/8" Reg
<b>D.1.7.2 KIT 2</b>		
Quantity	no.	15
OD Body	in	8
ID Body	in	3
Nominal length of each joint	ft	31.28
Drill collar body	slick / spiral	spiral
Recess for "zip" elevator	yes / no	yes
Recess for slips	yes / no	yes
Stress relief pin groove	yes / no	yes
Boreback on box	yes / no	yes
Connection type	txt	6 5/8" Reg
<b>D.1.7.3 KIT 3</b>		
Quantity	no.	30
OD Body	in	6 3/4
ID Body	in	2 13/16
Nominal length of each joint	ft	31.28

<b>D.1 TUBULARS</b>		
Drill collar body	slick / spiral	spiral
Recess for "zip" elevator	yes / no	yes
Recess for slips	yes / no	yes
Stress relief pin groove	yes / no	yes
Boreback on box	yes / no	yes
Connection type	txt	4 1/2" IF
<b>D.1.7.4 KIT 4</b>		
Quantity	no.	24
OD Body	in	4 3/4
ID Body	in	2 1/2
Nominal length of each joint	ft	31.28
Drill collar body	slick / spiral	spiral
Recess for "zip" elevator	yes / no	yes
Recess for slips	yes / no	yes
Stress relief pin groove	yes / no	yes
Boreback on box	yes / no	yes
Connection type	txt	3 1/2 IF
<b>D.1.8 SHORT DRILL COLARS</b>		
<b>D.1.8.1 KIT 1</b>		
Quantity	no.	1
OD Body	in	9.5
ID Body	in	3
Nominal length of each joint	ft	10
Stress relief pin groove	yes / no	yes
Boreback on box	yes / no	yes
Connection type	txt	7 5/8" Reg
<b>D.1.8.2 KIT 2</b>		
Quantity	no.	1
OD Body	in	9.5
ID Body	in	3
Nominal length of each joint	ft	15
Stress relief pin groove	yes / no	yes
Boreback on box	yes / no	yes
Connection type	txt	7 5/8" Reg
<b>D.1.8.3 KIT 3</b>		
Quantity	no.	1
OD Body	in	8
ID Body	in	3
Nominal length of each joint	ft	12
Stress relief pin groove	yes / no	yes
Boreback on box	yes / no	yes
Connection type	txt	6 5/8" Reg
<b>D.1.8.4 KIT 4</b>		
Quantity	no.	3
OD Body	in	6 3/4
ID Body	in	2 13/16
Nominal length of each joint	ft	12
Stress relief pin groove	yes / no	yes
Boreback on box	yes / no	yes
Connection type	txt	4 1/2" IF
<b>D.1.9 NON-MAGNETIC DRILL COLLARS</b>		
Quantity	no.	N/A
OD Body	in	N/A
ID Body	in	N/A
Nominal length of each joint	ft	N/A
Drill collar body	slick / spiral	N/A
Recess for "zip" elevator	yes / no	N/A
Recess for slips	yes / no	N/A
Stress relief pin groove	yes / no	N/A
Boreback on box	yes / no	N/A
Connection type	txt	N/A
<b>D.1.10 CORE BARRELS</b>		
Quantity	no.	N/A
Make	txt	N/A
Model	txt	N/A
Size OD	in	N/A
Size ID	in	N/A
Length	ft	N/A
Top connection type	txt	N/A
Spiral stabilizing ribs	yes / no	N/A
Subs and handling tools	yes / no	N/A
<b>D.1.11 STABILIZERS</b>		
<b>D.1.11.1 KIT 1</b>		
Hole size	in	N/A
Quantity	no.	N/A
Make	txt	N/A
OD blades	in	N/A
Type blades	straight / spiral / welded / integral / sleeve	N/A
Type of blade hardfacing	txt	N/A
OD body or fishing neck	in	N/A
ID Body	in	N/A
Connection type	txt	N/A
Float valve receptacle	yes / no	N/A
<b>D.1.11.2 KIT 2</b>		
Hole size	in	N/A
Quantity	no.	N/A
Make	txt	N/A
OD blades	in	N/A
Type blades	straight / spiral / welded / integral / sleeve	N/A
Type of blade hardfacing	txt	N/A
OD body or fishing neck	in	N/A
ID Body	in	N/A



<b>D.1 TUBULARS</b>		
Connection type	txt	N/A
Float valve receptacle	yes / no	N/A
<b>D.1.11.3 KIT 3</b>		
Hole size	in	N/A
Quantity	no.	N/A
Make	txt	N/A
OD blades	in	N/A
Type blades	straight / spiral / welded / integral / sleeve	N/A
Type of blade hardfacing	txt	N/A
OD body or fishing neck	in	N/A
ID Body	in	N/A
Connection type	txt	N/A
Float valve receptacle	yes / no	N/A
<b>D.1.11.4 KIT 4</b>		
Hole size	in	N/A
Quantity	no.	N/A
Make	txt	N/A
OD blades	in	N/A
Type blades	straight / spiral / welded / integral / sleeve	N/A
Type of blade hardfacing	txt	N/A
OD body or fishing neck	in	N/A
ID Body	in	N/A
Connection type	txt	N/A
Float valve receptacle	yes / no	N/A
<b>D.1.12 ROLLER REAMERS</b>		
<b>D.1.12.1 KIT 1</b>		
Hole size	in	N/A
Quantity	no.	N/A
Make	txt	N/A
OD body	in	N/A
ID Body	in	N/A
OD fishing neck	in	N/A
Cutters, supplied sets	no.	N/A
Cutters, type	txt	N/A
Connection type	txt	N/A
<b>D.1.12.2 KIT 2</b>		
Hole size	in	N/A
Quantity	no.	N/A
Make	txt	N/A
OD body	in	N/A
ID Body	in	N/A
OD fishing neck	in	N/A
Cutters, supplied sets	no.	N/A
Cutters, type	txt	N/A
Connection type	txt	N/A
<b>D.1.12.3 KIT 3</b>		
Hole size	in	N/A
Quantity	no.	N/A
Make	txt	N/A
OD body	in	N/A
ID Body	in	N/A
OD fishing neck	in	N/A
Cutters, supplied sets	no.	N/A
Cutters, type	txt	N/A
Connection type	txt	N/A
<b>D.1.13 SHOCK ABSORBERS (DAMPING SUB)</b>		
<b>D.1.13.1 KIT 1</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD body	in	N/A
ID Body	in	N/A
OD fishing neck	in	N/A
Connection type	txt	N/A
<b>D.1.13.2 KIT 2</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD body	in	N/A
ID Body	in	N/A
OD fishing neck	in	N/A
Connection type	txt	N/A
<b>D.1.14 Drilling Jars</b>		
Quantity	no.	N/A
Make	txt	N/A
Type (mechanical/hydraulic; up/down)	txt	N/A
OD body	in	N/A
Min. ID body	in	N/A
OD fishing neck	in	N/A
Stroke	in	N/A
Connection type	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
Type (mechanical/hydraulic; up/down)	txt	N/A
OD body	in	N/A
Min. ID body	in	N/A
OD fishing neck	in	N/A
Stroke	in	N/A
Connection type	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
Type (mechanical/hydraulic; up/down)	txt	N/A

<b>D.1 TUBULARS</b>		
OD body	in	N/A
Min. ID body	in	N/A
OD fishing neck	in	N/A
Stroke	in	N/A
Connection type	txt	N/A
<b>D.1.15 Inside BOP Valve</b>		
Quantity	no.	2
Make	txt	OMSCO
OD	in	5 1/2
Min. drill pipe ID required	in	N/A
Connection type	txt	5 1/2" FH
Working pressure rating	psi	10000
Quantity	no.	2
Make	txt	OMSCO
OD	in	5
Min. drill pipe ID required	in	N/A
Connection type	txt	4 1/2" IF
Working pressure rating	psi	10000
Quantity	no.	2
Make	txt	OMSCO
OD	in	3 1/2
Min. drill pipe ID required	in	N/A
Connection type	txt	3 1/2" IF
Working pressure rating	psi	10000
<b>D.1.16 Fast Shut-Off Coupling</b>		
Make	txt	N/A
Type	txt	N/A
Quantity	no.	N/A
Size tool joint to fit	in	N/A
<b>D.1.17 Circulation Head</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
Valve make	txt	N/A
Valve type	txt	N/A
Valve size (ID)	in	N/A
Valve working pressure	psi	N/A
Bottom connection type	txt	N/A
Top connection type	txt	N/A
Wireline stripper	yes / no	N/A
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
Valve make	txt	N/A
Valve type	txt	N/A
Valve size (ID)	in	N/A
Valve working pressure	psi	N/A
Bottom connection type	txt	N/A
Top connection type	txt	N/A
Wireline stripper	yes / no	N/A
<b>D.1.18 Kelly Cocks</b>		
Quantity	no.	2
Make	txt	HYDRIL
Type	txt	MANUAL
Working pressure	psi	10000
Max. OD body	psi	5 1/2"
Min. ID body	psi	3'
Connection type	txt	5 1/2" FH
Quantity	no.	2
Make	txt	HYDRIL
Type	txt	MANUAL
Working pressure	psi	10000
Max. OD body	psi	4 1/2"
Min. ID body	psi	3'
Connection type	txt	4 1/2" IF
Quantity	no.	2
Make	txt	HYDRIL
Type	txt	MANUAL
Working pressure	psi	10000
Max. OD body	psi	3 1/2"
Min. ID body	psi	2 1/2
Connection type	txt	3 1/2" IF
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
Working pressure	psi	N/A
Max. OD body	psi	N/A
Min. ID body	psi	N/A
Connection type	txt	N/A
<b>D.1.19 Circulation Subs</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD Body	in	N/A
Ball size	in	N/A
Dressing kits	no.	N/A
Connection type	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD Body	in	N/A
Ball size	in	N/A
Dressing kits	no.	N/A
Connection type	txt	N/A

<b>D.1 TUBULARS</b>		
<b>D.1.20 Cup Type Testers</b>		
Quantity	no.	N/A
Make	txt	N/A
Size test cup for casing weight	in-lb/ft	N/A
Size test cup for casing weight	in-lb/ft	N/A
Size test cup for casing weight	in-lb/ft	N/A
Connection	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
Size test cup for casing weight	in-lb/ft	N/A
Size test cup for casing weight	in-lb/ft	N/A
Size test cup for casing weight	in-lb/ft	N/A
Connection	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
Size test cup for casing weight	in-lb/ft	N/A
Size test cup for casing weight	in-lb/ft	N/A
Size test cup for casing weight	in-lb/ft	N/A
Connection	txt	N/A
<b>D.1.21 Plug Type Testers</b>		
Quantity	no.	N/A
Make	txt	N/A
Size test plugs	in	N/A
Connection	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
Size test plugs	in	N/A
Connection	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
Size test plugs	in	N/A
Connection	txt	N/A
<b>D.1.22 Drop-In Valves</b>		
Quantity	no.	N/A
For nom. OD drillpipe	in	N/A
Make	txt	N/A
Type	txt	N/A
Max. OD of dart.	in	N/A
Quantity	no.	N/A
For nom. OD drillpipe	in	N/A
Make	txt	N/A
Type	txt	N/A
Max. OD of dart.	in	N/A
<b>D.1.23 Bit Subs (Box-Box)</b>		
Quantity	no.	2
Od size	in	9.5
ID size	in	3
Top connection	txt	7 5/8
Bottom connection	txt	7 5/8
Bored for float valve	yes / no	yes
Float size	in	5F - 6R
Quantity	no.	2
Od size	in	8
ID size	in	3
Top connection	txt	6 5/8
Bottom connection	txt	6 5/8
Bored for float valve	yes / no	yes
Float size	in	5F - 6R
Quantity	no.	2
Od size	in	6 3/4
ID size	in	2 13/16
Top connection	txt	4 1/2 IF
Bottom connection	txt	4 1/2 REG
Bored for float valve	yes / no	yes
Float size	in	4R
Quantity	no.	2
Od size	in	3 1/2
ID size	in	2 3/4
Top connection	txt	3 1/2 IF
Bottom connection	txt	3 1/2 REG
Bored for float valve	yes / no	yes
Float size	in	4R
Quantity	no.	N/A
Od size	in	N/A
ID size	in	N/A
Top connection	txt	N/A
Bottom connection	txt	N/A
Bored for float valve	yes / no	N/A
Float size	in	N/A
Quantity	no.	N/A
Od size	in	N/A
ID size	in	N/A
Top connection	txt	N/A
Bottom connection	txt	N/A
Bored for float valve	yes / no	N/A
Float size	in	N/A
<b>D.1.24 Crossover Subs</b>		
Quantity	no.	1
OD size max	in	9.5
OD size min	in	8
ID size	in	3
Top connection size		6 5/8 Reg
Type (pin/box)		box
Bottom connection size		7 5/8 Reg

<b>D.1 TUBULARS</b>		
Type (pin/box)		pin
Quantity	no.	1
OD size max	in	9 3/8
OD size min	in	8
ID size	in	3
Top connection size		6 5/8 Reg
Type (pin/box)		pin
Bottom connection size		7 5/8 Reg
Type (pin/box)		box
Quantity	no.	1
OD size max	in	9.5
OD size min	in	8
ID size	in	3
Top connection size		6 5/8 Reg
Type (pin/box)		box
Bottom connection size		7 5/8 Reg
Type (pin/box)		pin
Quantity	no.	1
OD size max	in	9.5
OD size min	in	8
ID size	in	3
Top connection size		6 5/8 Reg
Type (pin/box)		pin
Bottom connection size		7 5/8 Reg
Type (pin/box)		pin
Quantity	no.	1
OD size max	in	8
OD size min	in	6.75
ID size	in	2 13/16
Top connection size		4 1/2 if
Type (pin/box)		box
Bottom connection size		6 5/8 Reg
Type (pin/box)		box
Quantity	no.	1
OD size max	in	8
OD size min	in	6 3/4
ID size	in	2 13/16
Top connection size		4 1/2 if
Type (pin/box)		pin
Bottom connection size		6 5/8 Reg
Type (pin/box)		box
Quantity	no.	1
OD size max	in	8
OD size min	in	6.75
ID size	in	2 13/16
Top connection size		4 1/2 IF
Type (pin/box)		pin
Bottom connection size		6 5/8 Reg
Type (pin/box)		box
Quantity	no.	2
OD size max	in	8
OD size min	in	6.5
ID size	in	2 13/16
Top connection size		4 1/2 IF
Type (pin/box)		box
Bottom connection size		6 5/8 Reg
Type (pin/box)		pin
Quantity	no.	2
OD size max	in	8
OD size min	in	8
ID size	in	2.25
Top connection size		4 1/2 IF
Type (pin/box)		pin
Bottom connection size		6 5/8 Reg
Type (pin/box)		pin
Quantity	no.	1
OD size max	in	6 5/8
OD size min	in	4 3/4
ID size	in	2 13/16
Top connection size		3 1/2 IF
Type (pin/box)		pin
Bottom connection size		4 1/2 IF
Type (pin/box)		box
<b>D.1.25 Drilling Bumper Subs</b>		
Quantity	no.	N/A
Make	txt	N/A
OD	in	N/A
Stroke	in	N/A
Connection type	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
OD	in	N/A
Stroke	in	N/A
Connection type	txt	N/A
<b>D.1.26 Hole Openers</b>		
Quantity	no.	N/A
Make	txt	N/A
OD	in	N/A
Connection type	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
OD	in	N/A
Connection type	txt	N/A
<b>D.1.27 Underreamer</b>		
		N/A

<b>D.1 TUBULARS</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD Min	in	N/A
OD Max	in	N/A
Connection type	txt	N/A
<b>D.2 HANDLING TOOLS</b>		
<b>D.2.1 Drill Pipe Elevators</b>		
Size	in	3 1/2
Quantity	no.	2
Make	txt	NOV
Model	txt	MGG
Rated capacity	st	250
Size	in	5
Quantity	no.	2
Make	txt	NOV
Model	txt	GG
Rated capacity	st	350
Size	in	5 1/2
Quantity	no.	2
Make	txt	NOV
Model	txt	GG
Rated capacity	st	350
<b>D.2.2 Drill Collar Elevators</b>		
Size	in	9.5
Quantity	no.	2
Make	txt	NOV
Model	txt	SLX
Rated capacity	st	150
Size	in	8
Quantity	no.	2
Make	txt	NOV
Model	txt	SLX
Rated capacity	st	150
Size	in	6 3/4
Quantity	no.	2
Make	txt	NOV
Model	txt	SLX
Rated capacity	st	150
Size	in	4 3/4
Quantity	no.	1
Make	txt	NOV
Model	txt	SLX
Rated capacity	st	100
<b>D.2.3 Tubing Elevators</b>		
Size	in	4 1/2
Quantity	no.	1
Make	txt	NOV
Model	txt	SLBB
Rated capacity	st	200
Size	in	3 1/2
Quantity	no.	1
Make	txt	NOV
Model	txt	SJL
Rated capacity	st	200
<b>D.2.4 Drill Pipe Hand Slips</b>		
Size	in	3.5
Quantity	no.	2
Make	txt	NOV
Type	txt	SDML
Size	in	5/5,5
Quantity	no.	2 & 2
Make	txt	NOV
Type	txt	SDXL / SDHL
<b>D.2.5 Semi-Automatic DP Slips</b>		
Size range (largest)	in	7
Size range (smallest)	in	3.5
Quantity	no.	1
Make	txt	MH
Type	txt	MH 1124
<b>D.2.6 Drill Collar Slips</b>		
Size	in	4-4 7/8
Quantity	no.	2
Make	txt	Varco
Type	txt	DCS-S
Size	in	5 1/2-7
Quantity	no.	2
Make	txt	Varco
Type	txt	DCS-R
Size	in	6.75- 8.25
Quantity	no.	2
Make	txt	Varco
Type	txt	DCS-L
Size	in	8.5-10
Quantity	no.	2
Make	txt	Varco
Type	txt	DCS-L
<b>D.2.7 Drill Collar Safety Clamps</b>		
Quantity	no.	2
Range (min)	in	5"
Range (max)	in	13 3/8"
Quantity	no.	N/A
Range (min)	in	N/A
Range (max)	in	N/A

<b>D.1 TUBULARS</b>		
Quantity	no.	N/A
Range (min)	in	N/A
Range (max)	in	N/A
Quantity	no.	N/A
Range (min)	in	N/A
Range (max)	in	N/A
<b>D.2.8 Tubing Slips</b>		
Size	in	3.5
Quantity	no.	1
Make	txt	NOV
Type	txt	SJL
Size	in	4.5
Quantity	no.	1
Make	txt	NOV
Type	txt	SJL
<b>D.2.9 Tubing Spider</b>		
Slip Size (max)	in	N/A
Slip Size (min)	in	N/A
Quantity	no.	N/A
Make	txt	N/A
Adaptor Plate		N/A
<b>D.2.10 Drill Collar Lifting Subs</b>		
Quantity	no.	4
For OD DC	in	9.5
Connection type	txt	7 5/8 Reg
Quantity	no.	2
For OD DC	in	8
Connection type	txt	7 5/8 Reg
Quantity	no.	10
For OD DC	in	8
Connection type	txt	6 5/8 Reg
Quantity	no.	6
For OD DC	in	6 3/4
Connection type	txt	4 1/2" IF
<b>D.2.11 DC Lifting Plugs</b>		
Quantity	no.	N/A
For OD DC	in	N/A
Connection type	txt	N/A
Quantity	no.	N/A
For OD DC	in	N/A
Connection type	txt	N/A
Quantity	no.	N/A
For OD DC	in	N/A
Connection type	txt	N/A
Quantity	no.	N/A
For OD DC	in	N/A
Connection type	txt	N/A
<b>D.2.12 Bit Breakers</b>		
Quantity	no.	1
For bit size	in	4.5-4.75
Quantity	no.	1
For bit size	in	5.5-5.75
Quantity	no.	2
For bit size	in	6-6.25
Quantity	no.	1
For bit size	in	11.75-12.25
Quantity	no.	1
For bit size	in	14 3/4
Quantity	no.	1
For bit size	in	16
Quantity	no.	1
For bit size	in	17.5/18.5
Quantity	no.	1
For bit size	in	26
Quantity	no.	N/A
For bit size	in	N/A
<b>D.2.13 Elevator Links</b>		
Quantity of sets	no.	2
Make	txt	NOV
Type	txt	Elevator Bails
Length	ft	11, 14,50
Rated capacity	st	350
Quantity of sets	no.	1
Make	txt	NOV
Type	txt	Elevator Bails
Length	ft	16
Rated capacity	st	500
<b>D.2.14 Kelly Spinner</b>		
Make	txt	N/A
Type	txt	N/A
<b>D.2.15 DrillpipeSpinner</b>		
Make	txt	NOV
Type	txt	SSW-40
Size (max)	in	9.5
Size (min)	in	3.5
<b>D.2.16 Mud Saver Bucket</b>		
Make	txt	OTECO
Size	in	5
Make	txt	OTECO
Size	in	5.5 - 3.5
<b>D.2.17 Hydraulic Make-Up/Breakout Machine (e.g. Ezy Torque)</b>		
Make	txt	NOV
Type	txt	HC-26 EVD
Maximum linepull	st	45

<b>D.1 TUBULARS</b>		
<b>D.2.18 Rotary Rig Tongs</b>		
Quantity of sets	no.	1
Make	txt	BJ
Type	txt	HT100
Size range (max OD)	in	15
Size range (min OD)	in	4
Torque rating	ft lbs	100000
<b>D.2.19 Tubing Tongs (manual)</b>		
Quantity of sets	no.	1
Make	txt	BJ
Type	txt	HT14
Size range (max OD)	in	6.25
Size range (min OD)	in	2 3/8
Torque rating	ft lbs	14000
<b>D.2.20 Tubing Tongs (Powered)</b>		
Quantity	no.	1
Make	txt	ECKEL
Type	txt	13 5/8 HD
Size range (max OD)	in	13 3/8
Size range (min OD)	in	7
Max output torque	ft lbs	30000
Torque indicator	yes/no	yes
Back-up arm	yes/no	no
<b>D.2.21 Iron Roughneck</b>		
Make	txt	NOV
Type	txt	AR3200CM
Size range (max OD)	in	9.75
Size range (min OD)	in	3.5
<b>D.2.22 Drilling Connection Back-up Tong (e.g. RBS, EBT, etc)</b>		
Make	txt	N/A
Type	txt	N/A
<b>D.3 FISHING EQUIPMENT</b>		
<b>D.3.1 Overshots</b>		
Quantity	no.	1
Make	txt	GOTCO
Type	txt	FS.OS11
Overshot OD	in	11 3/4"
To catch size	in	10 1/8
To catch size	in	9 3/8
To catch size	in	
Overshot guide OD	in	15/22
Extension sub length	ft	3/3.5/5
Lipped guide (oversize, regular)		oversize
Grapples (spiral, basket, both)		both
Pack offs	yes/no	no
Top sub connection type	txt	6 5/8 Reg
Quantity	no.	2
Make	txt	BOWEN
Type	txt	SH
Overshot OD	in	8 1/8
To catch size	in	6 3/4
To catch size	in	6 1/8
To catch size	in	
Overshot guide OD	in	11
Extension sub length	ft	3.75/4.75
Lipped guide (oversize, regular)		regular
Grapples (spiral, basket, both)		both
Pack offs	yes/no	no
Top sub connection type	txt	4 1/2IF
Quantity	no.	1
Make	txt	GOTCO
Type	txt	FS.OS11
Overshot OD	in	11 3/4"
To catch size	in	10 1/8
To catch size	in	9 3/8
To catch size	in	
Overshot guide OD	in	15/22
Extension sub length	ft	3/3.5/5
Lipped guide (oversize, regular)		oversize
Grapples (spiral, basket, both)		both
Pack offs	yes/no	no
Top sub connection type	txt	6 5/8 Reg
Quantity	no.	1
Make	txt	Bowen
Type	txt	SH
Overshot OD	in	8 1/8
To catch size	in	6 3/4
To catch size	in	6 1/8
To catch size	in	
Overshot guide OD	in	11
Extension sub length	ft	3.75/4.75
Lipped guide (oversize, regular)		regular
Grapples (spiral, basket, both)		both
Pack offs	yes/no	no
Top sub connection type	txt	4 1/2IF
Quantity	no.	1
Make	txt	GOTCO
Type	txt	SH
Overshot OD	in	8 1/8
To catch size	in	6 3/4
To catch size	in	6 1/8
To catch size	in	
Overshot guide OD	in	11
Extension sub length	ft	3.75/4.75

<b>D.1 TUBULARS</b>		
Lipped guide (oversize, regular)		regular
Grapples (spiral, basket, both)		both
Pack offs	yes/no	no
Top sub connection type	txt	4 1/2IF
<b>D.3.2 Hydraulic Fishing Jar</b>		
Quantity	no.	1
Make	txt	BOWEN
Type	txt	Hydraulic Jar
OD Body	in	8
Min. ID	in	3-3/8
Stroke	in	6.5
Connection type	txt	6 5/8 Reg
Repair kit	yes/no	no
Quantity	no.	1
Make	txt	BOWEN
Type	txt	Hydraulic Jar
OD Body	in	6 1/4
Min. ID	in	2-3/4
Stroke	in	6 1/2"
Connection type	txt	4 1/2IF
Repair kit	yes/no	no
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD Body	in	N/A
Min. ID	in	N/A
Stroke	in	N/A
Connection type	txt	N/A
Repair kit	yes/no	N/A
<b>D.3.3 Jar intensifier</b>		
Quantity	no.	1
Make	txt	BOWEN
Type	txt	N/A
OD Body	in	8
Min. ID	in	3 1/16
Connection type	txt	6 5/8 REG
Repair kit	yes/no	no
Quantity	no.	1
Make	txt	BOWEN
Type	txt	N/A
OD Body	in	6 1/2
Min. ID	in	2 3/8
Connection type	txt	4 1/2 IF
Repair kit	yes/no	no
<b>D.3.4 Surface Jar</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD Body	in	N/A
Stroke	in	N/A
Connection type	txt	N/A
Repair kit	yes/no	N/A
<b>D.3.5 Fishing Bumpersubs</b>		
Quantity	no.	2
Make	txt	GOTCO
Type	txt	Bumpersub
OD Body	in	8
Min. ID	in	3-1/2
Stroke	in	60/20
Connection type	txt	6 5/8 Reg
Quantity	no.	2
Make	txt	Gotco
Type	txt	Bumpersub
OD Body	in	6 3/4"
Min. ID	in	2-1/4
Stroke	in	60/20
Connection type	txt	4 1/2 IF
<b>D.3.6 Safety Joints</b>		
Quantity	no.	2
Make	txt	BOWEN
Type	txt	Safety Joints
OD Body	in	6 1/8"
Min. ID	in	60/20
Connection type	txt	4 1/2 IF
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD Body	in	N/A
Min. ID	in	N/A
Connection type	txt	N/A
<b>D.3.7 Junk Baskets (Reverse Circulation)</b>		
Quantity	no.	1
Make	txt	GOTCO
Type	txt	Junk Basket
For hole size	in	12 1/4
OD Body	in	11
Connection type	txt	6 5/8 Reg
Inside magnet available	yes/no	no
Mill shoes type B	yes/no	yes
Quantity	no.	1
Make	txt	Gotco
Type	txt	Junk Basket
For hole size	in	9.5
OD Body	in	7 7/8



<b>D.1 TUBULARS</b>		
Connection type	txt	4 1/2IF
Inside magnet available	yes/no	no
Mill shoes type B	yes/no	yes
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
For hole size	in	N/A
OD Body	in	N/A
Connection type	txt	N/A
Inside magnet available	yes/no	N/A
Mill shoes type B	yes/no	N/A
<b>D.3.8 Junk Subs</b>		
Quantity	no.	1
Make	txt	DRILLCO
Type	txt	Standard
For hole size	in	12 1/4
OD Body	in	7 11/16
Connection type	txt	6 5/8 Reg
Quantity	no.	1
Make	txt	DRILLCO
Type	txt	Standard
For hole size	in	8 1/2
OD Body	in	5 7/16
Connection type	txt	4 1/2 reg
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
For hole size	in	N/A
OD Body	in	N/A
Connection type	txt	N/A
<b>D.3.9 Flat Bottom Junk Mill</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD flat mill	in	N/A
Connection type	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD flat mill	in	N/A
Connection type	txt	N/A
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD flat mill	in	N/A
Connection type	txt	N/A
<b>D.3.10 Magnet Fishing Tools</b>		
Quantity	no.	1
Make	txt	GOTCO
Type	txt	Magnetic
OD Body	in	10 1/2
Connection type	txt	6 5/8 Reg
Quantity	no.	1
Make	txt	GOTCO
Type	txt	Magnetic
OD Body	in	8
Connection type	txt	4 1/2 IF
Quantity	no.	1
Make	txt	GOTCO
Type	txt	Magnetic
OD Body	in	5 3/4
Connection type	txt	3 1/2 IF
<b>D.3.11 Taper Taps</b>		
Quantity	no.	1
Make	txt	GOTCO
Type	txt	TT-24
OD (max)	in	4 3/4
OD (min)	in	3
OD Body	in	7 3/4
Length	ft	3
Connection type	txt	6 5/8 Reg
Quantity	no.	1
Make	txt	Gotco
Type	txt	TT-22
OD (max)	in	5 3/8
OD (min)	in	3 5/8
OD Body	in	7
Length	ft	3
Connection type	txt	4 1/2 IF
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
OD (max)	in	N/A
OD (min)	in	N/A
OD Body	in	N/A
Length	ft	N/A
Connection type	txt	N/A
<b>D.3.12 Die Collars</b>		
Quantity	no.	N/A
Make	txt	N/A
OD (max)	in	N/A
OD (min)	in	N/A
OD Body	in	N/A
Length	ft	N/A

D.1 TUBULARS		
Connection type	txt	N/A

<b>E. WELL CONTROL/SUBSEA EQUIPMENT</b>		
<b>E.1 LOWER RISER DIVERTER ASSEMBLY</b>		
<b>E.1.1 HYDRAULIC CONNECTOR</b>		
Size	in	18,75
Make	txt	CAMERON
Surface controlled hydraulic operated dump valves	no.	1
Size	in	2
<b>E.1.2 FLEX JOINT/RISER ADAPTOR</b>		
Flex joint make	txt	OIL STATES
Flex joint type	txt	DIVERTER 11-8
Flex joint size	in	21,25
Flex joint max deflection	deg	10
Riser adaptor make	txt	CAMERON
Riser adaptor type	txt	RF
Riser adaptor size	in	21,25
<b>E.2 PRIMARY BOP STACK(FROM BOTTOM TO TOP)</b>		
Guide frame	yes/no	YES
Pick up attachment	yes/no	YES
Transport base	yes/no	NO
Size (Bore)	in	18,75
Working pressure	psi	15000
H2S service	yes/no	YES
<b>E.2.1 ALTERNATE HYDRAULIC CONNECTOR</b>		
Alternate connector available	yes/no	NO
Connector make	txt	N/A
Connector Model	txt	N/A
Adaptor available	yes/no	N/A
<b>E.2.2 HYDRAULIC WELLHEAD CONNECTOR</b>		
Size	in	18,75
Make	txt	GE/VETCO
Type	txt	STYLE HD
Working pressure	psi	15000
Hot tap for underwater intervention	yes/no	YES
Spare connector same type	yes/no	NO
<b>E.2.3 RAM TYPE PREVENTERS</b>		
<b>E.2.3.1 PREVENTERS</b>		
Quantity	no.	2
Bore Size	in	18,75
Working pressure	psi	15000
Make	txt	HYDRIL
Model	txt	BOP 18-15 K CONVENTIONAL
Type	Single/Double	DOUBLE
Ram locks	yes/no	YES
Preventers connection type - top	txt	STUDDDED
Preventers connection type - bottom	txt	FLANGE
Side outlets	yes/no	YES
Size	in	3,0625
Connection type	txt	GASKET CX
<b>E.2.3.2 PREVENTERS</b>		
Quantity	no.	1
Bore Size	in	18,75
Working pressure	psi	15000
Make	txt	HYDRIL
Model	txt	BOP 18-15 K - COMPACT
Type	Single/Double	Double
Ram locks	yes/no	YES
Preventers connection type - top	txt	STUDDDED
Preventers connection type - bottom	txt	FLANGE
Side outlets	yes/no	YES
Size	in	3,0625
Connection type		GASKET CX
<b>E.2.3.3 PIPE RAMS</b>		
Quantity	no.	1
Size	in.	5,5
Quantity	no.	N/A
Size	in.	N/A
Quantity	no.	N/A
Size	in.	N/A
<b>E.2.3.4 BLIND/SHEAR RAMS</b>		
Quantity	no.	1 BLIND SHEAR / 1 CASING SHEAR
<b>E.2.3.5 VARIABLE RAMS</b>		
Quantity	no.	1
Size range min.	in	VARIABLE 4,5 TO 7
Size range max.	in	1
Quantity	no.	VARIABLE 3,5 TO 5,5
Size range min.	in	N/A
Size range max.	in	N/A
<b>E.2.4 STACK CONFIGURATION</b>		
Top Rams	txt	BLIND SHEAR (N° 5 CAVITY)
Middle upper rams	txt	CASING SHEAR (N° 4 CAVITY)
Middle lower rams	txt	PIPE (N° 3 CAVITY UPPER PIPE RAM)
Spacing between middle and lower rams	in	41
Lower upper rams	txt	PIPE (N° 2 CAVITY MIDDLE PIPE RAM)
Lower lower rams	txt	PIPE (N° 1 CAVITY LOWER PIPE RAM)
<b>Position of side outlets-Choke</b>		
Upper	txt	UNDER BLIND SHEAR RAM
Lower	txt	UNDER PIPE RAM 2 (MIDDLE PIPE RAM)
<b>Position of side outlets-Kill</b>		
Upper	txt	UNDER PIPE RAM 3 (UPPER PIPE RAM)
Lower	txt	UNDER PIPE RAM 1 (LOWER PIPE RAM)
<b>E.2.5 ANNULAR TYPE PREVENTER ON STACK</b>		
Size	in	18,75
Working pressure	psi	10000
Make	txt	HYDRIL
Type	txt	GX 18.75

<b>E. WELL CONTROL/SUBSEA EQUIPMENT</b>		
<b>E.2.6 MANDREL</b>		
Make	txt	CAMERON
Type	txt	18.75 10K
Size	in	18,75
<b>E.2.7 FAIL-SAFE HYDRAULIC VALVES</b>		
Quantity on each side outlet	no.	2
Side (ID)	in	3,0625
Make	txt	CAMERON/CONTROLFLOW
Type	txt	MCS VALVE/GATE VALVE TYPE "DW"
Working pressure	psi	15000
Solid Block	yes/no	YES
<b>E.2.8 SUBSEA ACCUMULATORS</b>		
Quantity	no.	108
Useful capacity per accumulator(w/o pre-change)	U.S. gal	15
Bottle working pressure	psi	5000
<b>E.2.9 HYDRAULIC CONTROL POD/ RECEPTACLES</b>		
Quantity	no.	2
Redundancy	%	100%
Color coded	yes/no	YES
Remote regulation of operating pressure for functions requiring lower operating pressure	yes/no	YES
Spare control pod	yes/no	YES
<b>E.3 PRIMARY LOWER MARINE RISER PACKAGE</b>		
<b>E.3.1 HYDRAULIC CONNECTOR</b>		
Make	txt	AXON
Type	txt	TYPE 93
Size	in	18,75
Working pressure	psi	10000
Hot tap for underwater intervention	yes/no	YES
Spare connector same type	yes/no	NO
<b>E.3.2 ANNULAR TYPE PREVENTER (LMRP)</b>		
Size	in	21,25
Working pressure	psi	5000
Make	txt	SHAFFER
Type	txt	SINGLE SPHERICAL
<b>E.3.3 FLEX JOINT</b>		
Make	txt	OIL STATES
Type	txt	SUBSEA FLEX JOINT 21 1/4 - 5M WP
Size	in	19.25
Max deflection	degrees	10
<b>E.3.4 RISER ADAPTER</b>		
Make	txt	CAMERON
Type	txt	RF
Size	in	19.25
<b>E.3.5 CONNECTION LINES TO RISER</b>		
Type	rigid loops/coflexip/etc	ALL PIPE FLEX LOOPS
<b>E.4 SECONDARY BOP STACK</b>		
Guide frame	yes/no	N/A
Pick up attachment	yes/no	N/A
Transport base	yes/no	N/A
Size (Bore)	in	N/A
Working pressure	psi	N/A
H2S service	yes/no	N/A
<b>E.4.1 ALTERNATE HYDRAULIC CONNECTOR</b>		
Alternate connector available	yes/no	N/A
Connector Make	txt	N/A
Connector Model	txt	N/A
Adaptor available	yes/no	N/A
<b>E.4.2 HYDRAULIC WELLHEAD CONNECTOR</b>		
Make	txt	N/A
Type	txt	N/A
Size	in	N/A
Working pressure	psi	N/A
Hot tap for underwater intervention	yes/no	N/A
Spare connector same type	yes/no	N/A
<b>E.4.3 RAM TYPE PREVENTERS</b>		
<b>E.4.3.1 PREVENTERS</b>		
Quantity	no.	N/A
Bore Size	in	N/A
Working pressure	psi	N/A
Make	txt	N/A
Model	txt	N/A
Type	Single/Double	N/A
Ram locks	yes/no	N/A
Preventers connection type - top	txt	N/A
Preventers connection type - bottom	txt	N/A
Side outlets	yes/no	N/A
Size	in	N/A
Connection type	txt	N/A
<b>E.4.3.2 PIPE RAMS</b>		
Quantity	no.	N/A
Size	in.	N/A
Quantity	no.	N/A
Size	in.	N/A
Quantity	no.	N/A
Size	in.	N/A
<b>E.4.3.3 BLIND/SHEAR RAMS</b>		
Quantity	no.	N/A
<b>E.4.3.4 VARIABLE RAMS</b>		
Quantity	no.	N/A
Size range min.	in	N/A
Size range max.	in	N/A
Quantity	no.	N/A
Size range min.	in	N/A

<b>E. WELL CONTROL/SUBSEA EQUIPMENT</b>		
Size range max.	in	N/A
<b>E.4.4 STACK CONFIGURATION</b>		
Top Rams	txt	N/A
Middle upper rams	txt	N/A
Middle lower rams	txt	N/A
Spacing between middle and lower rams	in	N/A
Lower rams	txt	N/A
Position of side outlets-kill	txt	N/A
Upper	txt	N/A
Lower	txt	N/A
Position of side outlets-choke	txt	N/A
Upper	txt	N/A
Lower	txt	N/A
<b>E.4.5 ANNULAR TYPE PREVENTER ON STACK</b>		
Size	in	N/A
Working pressure	psi	N/A
Make	txt	N/A
Type	txt	N/A
<b>E.4.6 MANDREL</b>		
Make	txt	N/A
Type	txt	N/A
Size	in	N/A
<b>E.4.7 FAIL-SAFE HYDRAULIC VALVES</b>		
Quantity on each sede outlet	no.	N/A
Size (ID)	in	N/A
Make	txt	N/A
Type	txt	N/A
Working pressure	psi	N/A
Solid Block	yes/no	N/A
<b>E.4.8 SUBSEA ACCUMULATORS</b>		
Quantity	no.	N/A
Useful capacity per accumulator(w/o pre-change)	U.S. gal	N/A
Bottle working pressure	psi	N/A
<b>E.4.9 HYDRAULIC CONTROL POD/RECEPTACLES</b>		
Quantity	no.	N/A
Redundancy	%	N/A
Color coded	yes/no	N/A
Remote regulation of operating pressure for functions requiring lower operating pressure	yes/no	N/A
Spare control pod	yes/no	N/A
<b>E.5 SECONDARY LOWER MARINE RISER PACKAGE</b>		
<b>E.5.1 HYDRAULIC CONNECTOR</b>		
Make	txt	N/A
Type	txt	N/A
Size	in	N/A
Working pressure	psi	N/A
Hot tap for underwater intervention	yes/no	N/A
Spare connector same type	yes/no	N/A
<b>E.5.2 ANNULAR TYPE PREVENTER (LMRP)</b>		
Size	in	N/A
Working pressure	psi	N/A
Make	txt	N/A
Type	txt	N/A
<b>E.5.2 FLEX JOINT</b>		
Make	txt	N/A
Type	txt	N/A
Size	in	N/A
Max deflection	degrees	N/A
<b>E.5.4 RISE ADAPTER</b>		
Make	txt	N/A
Type	txt	N/A
Size	in	N/A
<b>E.5.5 CONNECTION LINES TO RISER</b>		
Type	rigid loops/coflexip/etc	N/A
<b>E.6 PRIMARY MARINE RISER SYSTEM</b>		
<b>E.6.1 MARINE RISER JOINTS</b>		
Make	txt	CAMERON
Model	txt	RF
OD	in	21
ID	in	19,625
Wall Thickness	in	1" / 0.688" / 0.625"
Average legth of each joint	ft	75
Weight of one complete joint	lbs	24100
Quantity	no.	75' joints X 70
Pipe Material	grade	X80
Minimum Yield Strength	psi	80000
Type riser connectors	txt	BOLT FLANGE
Dogs	no.	N/A
<b>Pup Joints</b>		
Quantity	no.	2
Length	ft	6,5
Quantity	no.	2
Length	ft	12,5
Quantity	no.	2
Length		25
Quantity		2
Length		37,5
Quantity		1
Length	ft	50
Quantity	no.	
Length	ft	
<b>E.6.2 TELESCOPIC JOINT</b>		
Make	txt	CAMERON
Type	txt	RF DUAL PACKER BAYONET LOCK

<b>E. WELL CONTROL/SUBSEA EQUIPMENT</b>		
Size(ID)	in	19,625
Stroke	ft	55
Double seals	yes/no	YES
Spare Telescoping joint	yes/no	YES
Location	txt	BASE
Rotating support ring for riser tensioners	Type	SHAFFER 49.5" 800 TON DT-2
connection points	no.	16 EYES FOR TENSIONER WIRES
<b>E.6.3 KILL/CHOKE LINES</b>		
Quantity	no.	2
Outside diameter	in	5
Inside diameter	in	3
Working pressure	psi	15000
<b>E.6.4 BOOSTER LINES</b>		
Quantity	no.	1
Outside diameter	in	5
Inside diameter	in	4
Working pressure	psi	5000
<b>E.6.5 HYDRAULIC SUPPLY LINES</b>		
Quantity	no.	2,057
Outside diameter	in	2,88
Inside diameter	in	2
Working pressure	psi	5000
<b>E.6.6 UPPER BALL (FLEX) JOINT</b>		
Make	txt	OIL STATES
Type	txt	DIVERTER 111
Size	in	19.25 MIN DIAM
Maximum deflection	deg.	10
Spare upper ball (flex) joint	yes/no	NO
<b>E.6.7 BUOYANCY MODULES</b>		
Make	txt	EMERSON AND CUMING
Quantity of buoyed riser joints	no.	94
Riser tub OD	in	21
OD of buoyed riser joints	in	46
Length of each module	ft	14
Volume of each module	ft3	51.2
Buoyancy in seawater	st/ft3	51.2
Rated water depth	ft	MAX 6000'
<b>E.6.8 MARINE RISER SPIDER</b>		
Make	txt	CAMERON
Type	txt	Model HX Hydraulic Riser Spider
<b>E.6.9 MARINE RISER GIMBAL</b>		
Make	txt	CAMERON
Type	txt	Model HX Split Gimbal Base Assembly for Hydraulic Riser Spider
<b>E.6.10 RISER HANDLING TOOLS</b>		
Quantity	no.	2
Type	txt	HYDRAULIC
<b>E.6.11 RISER TEST TOOLS</b>		
Quantity	no.	1
Type	txt	MANUAL
<b>E.6.12 INSTRUMENTED RISER JOINT</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
Length	ft	N/A
<b>Functions</b>		N/A
Tension	yes/no	N/A
Mud Temp	yes/no	N/A
Mud Weight	yes/no	N/A
Other	txt	N/A
<b>E.6.13 RISER FLOOD/FILL SYSTEM</b>		
Quantity	no.	1
Make	txt	CAMERON
Type	txt	21" RF BALANCED SLEEVE
Length	ft	12,6
Automatic Operation	yes/no	YES
Manual override	yes/no	YES
No. Of inlet valves	no.	4 PORT SLEEVE VALVE
Size of valves (ID)	in SQUARE AREA	308 SQUARE INCHES
<b>E.7 SECONDARY MARINE RISER SYSTEM</b>		
<b>E.7.1 MARINE RISER JOINTS</b>		
Make	txt	N/A
Model	txt	N/A
OD	in	N/A
ID	in	N/A
Wall Thickness	in	N/A
Average legth of each joint	ft	N/A
Weight of one complete joint	lbs	N/A
Quantity	no.	N/A
Pipe Material	grade	N/A
Minimum Yield Strength	psi	N/A
Type riser connectors	txt	N/A
Dogs	no.	N/A
<b>Pup Joints</b>		
Quantity	no.	N/A
Length	ft	N/A
Quantity	no.	N/A
Length	ft	N/A
Quantity	no.	N/A
Length	ft	N/A
Quantity	no.	N/A
Length	ft	N/A
<b>E.7.2 TELESCOPIC JOINT</b>		
Make	txt	N/A

<b>E. WELL CONTROL/SUBSEA EQUIPMENT</b>		
Type	txt	N/A
Size (ID)	in	N/A
Stroke	ft	N/A
Double Seals	yes/no	N/A
Sapre Telescoping joint	yes/no	N/A
Location	txt	N/A
Rotating support ring for riser tensiners	type	N/A
Connection points	no.	N/A
<b>E.7.3 KILL/CHOKE LINES</b>		
Quantity	no.	N/A
Outside diameter	in	N/A
Inside diameter	in	N/A
Working pressure	psi	N/A
<b>E.7.4 Booster lines</b>		
Quantity	no.	N/A
Outside diameter	in	N/A
Inside diameter	in	N/A
Working pressure	psi	N/A
<b>E.7.5 HIDRAULIC SUPPLY LINES</b>		
Quantity	no.	N/A
Outside diameter	in	N/A
Inside diameter	in	N/A
Working pressure	psi	N/A
<b>E.7.6 UPPER BALL (FLEX) JOINT</b>		
Make	txt	N/A
Type	txt	N/A
Size	in	N/A
Maximum deflection	deg.	N/A
Spare upper ball (flex) joint	yes/no	N/A
<b>E.7.7 BUOYANCY MODULES (IF FITTED)</b>		
Make	txt	N/A
Quantity of buoed riser joints	no.	N/A
OD of buoyed riser joints	in	N/A
Length of each module	ft	N/A
Volume of each module	ft3	N/A
Buoyancy in seawater	st/ft3	N/A
Rated water deph	ft	N/A
<b>E.7.8 MARINE RISER SPIDER</b>		
Make	txt	N/A
Type	txt	N/A
<b>E.7.9 MARINE RISER GIMBAL</b>		
Make	txt	N/A
Type	txt	N/A
<b>E.7.10 RISER HANDLING TOOLS</b>		
Quantity	no.	N/A
Type	txt	N/A
<b>E.7.11 RISER TEST TOOLS</b>		
Quantity	no.	N/A
Type	txt	N/A
<b>E.7.12 INSTRUMENTED RISER JOINT</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
Length	ft	N/A
<b>Functions</b>		
Tension	yes/no	N/A
Mud Temp	yes/no	N/A
Mud Weight	yes/no	N/A
Other	txt	N/A
<b>E.7.13 RISER FLOOD/FILL SYSTEM</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
Length	ft	N/A
Automatic Operation	yes/no	N/A
Manual override	yes/no	N/A
No. Of inlet valves	no.	N/A
Size of valves (ID)	in	N/A
<b>E.8 DIVERTER BOP</b>		
Make	txt	VETCO
Type	txt	KFDS DIVERTER
Max Bore size	in	23
Working pressure	psi	750
Number of diverter outlets	no.	1
Outlet OD	in	12
Insert packer size ID	in	10
<b>E.8.1 DIVERTER FLOWLINES</b>		
Quantity	no.	1
OD of Flowlines	in	12
Running from diverter to	txt	MGS, SHAKER, OVERBOARD ETC.
Valves Types	txt	KNIFE VALVES
Size	in	12
Working pressure	psi	750
Control Valve type	air/hydraulic/etc	HYDRAULIC WITH AIR PERMISSIVE CONTROL
Remote controlled from	Location	DOG HOUSE
<b>E.8.2 DIVERTER CONTROL PANELS</b>		
<b>E.8.2.1 DRILLER'S PANEL</b>		
Make	txt	HYDRIL
Model	txt	MUX
Location	txt	DRILL FLOOR
Locking/unlocking control	yes/no	YES
<b>E.8.2.2 REMOTE PANEL</b>		
Make	txt	HYDRIL / DAISY DATA
Model	txt	HYDRIL MUX / D3 (4326AC)

<b>E. WELL CONTROL/SUBSEA EQUIPMENT</b>		
Location	txt	DOG HOUSE / TOOL PUSHERS OFFICE / SUB SEA WORKSHOP / CCU
Locking/unlocking control	yes/no	YES
<b>E.9 SUBSEA SUPPORT SYSTEM</b>		
<b>E.9.1 RISER TENSIONERS</b>		
Quantity	no.	16
Make	txt	WESTERN GEAR CORP.
Type	txt	OIL / AIR
Capacity each tensioner	st	265 GALLONS
Maximum stroke	ft	12
Wireline Size	in	1,75
Line travel	ft	50
Independent air compressors	yes/no	YES
Independent air drying unit	yes/no	YES
<b>E.9.2 GUIDELINE SYSTEM</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
Capacity each tensioner	st	N/A
Maximum stroke	ft	N/A
Wireline Size	in	N/A
Line travel	ft	N/A
Line storage drums with tensioners	yes/no	N/A
<b>E.9.3 REMOTE GUIDELINE RAPLACEMENT TOOL</b>		
Make	txt	N/A
Type	txt	N/A
<b>E.9.4 REMOTE GUIDELINE CUTTING TOOL</b>		
Make	txt	N/A
Type	txt	N/A
<b>E.9.5 POD LINE TENSIONERS</b>		
Make	txt	N/A
Type	txt	N/A
Capacity each tensioner	st	N/A
Maximum stroke	ft	N/A
Wireline Size	in	N/A
Line travel	ft	N/A
<b>E.9.6 TENSIONER/COMPENSATOR AIR PRESSURE VESSELS</b>		
Quantity	no.	52
Total capacity	ft3	2460
Rated working pressure	psi	3000
Pressure Relief valve installed	yes/no	YES
<b>E.10 BOP CONTROL SYSTEM</b>		
<b>E.10.1 SURFACE ACCUMULATOR UNIT</b>		
Make	txt	HYDRIL
Model	txt	AC385
Type	txt	PLC AUTOMATED
Location	txt	SUB SEA WORKSHOP
Soluble oil resevoir capacity	U.S.gal	220
Oil/water mix. Capacity	U.S.gal/min	900
Glycol reservoir capacity	U.S.gal	550
No. Of bottles installed	no.	78
Useful capacity per accumulator		15 GALLON
<b>E.10.2 ACCUMULATOR HYDRAULIC PUMPS</b>		
<b>E.10.2.1 ELECTRIC DRIVEN</b>		
Quantity	no.	3
Make	txt	UNION
Model	txt	QD100 QUINTUPLEX
Each driven by motor of power	hp	100
Flow rate of each pump	U.S.gal/min	26.23
At minimum operating pressure	psi	4500
<b>E.10.2.2 AIR DRIVEN</b>		
Quantity	no.	N/A
Make	txt	N/A
Model	txt	N/A
Each driven by motor of power	hp	N/A
Flow rate of each pump	U.S.gal/min	N/A
At minimum operating pressure	psi	N/A
<b>E.10.3 DRILLER'S CONTROL PANEL</b>		
Graphic control panel at driller's position showing subsea functions with controls for the following functions of the BOP stack		
Marine riser connector	yes/no	YES
All annular type BOP's	yes/no	YES
All ram type BOP's	yes/no	YES
Lock for ram type BOP's	yes/no	YES
Wellhead and LMRP connector	yes/no	YES
Inner and outer kill and choke line valves	yes/no	YES
Low acc. Pressure warning	yes/no	YES
Low reservoir level warning	yes/no	YES
Pressure regulator for annular	yes/no	YES
Flowmeter	yes/no	YES
Quantity of pressure gauges	no.	24
Emergency push button for automatic riser disconnection	yes/no	YES
Other control functions	yes/no	YES
Control Panel make	txt	DAISY DATA
Contol panel model	txt	D3 (4326AC)
<b>E.10.4 REMOTE CONTROL PANELS</b>		
Ability to operate main closing unit valves directly	yes/no	YES
Quantity	no.	8
Make	txt	HYDRIL / DAISY DATA
Model	txt	D3 (4326AC)
Locations	txt	SUB SEA WORKSHOP, CCU, DOGHOUSE, T/P OFFICE
Operating System Routing (Direct/via Primary Control Panel)	txt	IDEPENDENT MUX NODES
<b>E.11 SUBSEA CONTROL SYSTEM</b>		



<b>E. WELL CONTROL/SUBSEA EQUIPMENT</b>		
<b>E.11.1 POD HOSE REELS</b>		
Quantity	no.	N/A
Location	txt	N/A
Make	txt	N/A
Type	txt	N/A
Maximum storage length each	ft	N/A
Drive motor type	txt	N/A
<b>E.11.2 POD HOSE</b>		
Location	txt	N/A
Length	ft	N/A
OD hose	in	N/A
Control line ID	in	N/A
Quantity total	no.	N/A
Quantity spare (whem new)	no.	N/A
Control line ID	in	N/A
Quantity total	no.	N/A
Quantity spare (whem new)	no.	N/A
Control line ID	in	N/A
Quantity total	no.	N/A
Quantity spare (whem new)	no.	N/A
<b>E.11.1A MUX CABLE REELS</b>		
Quantity	no.	2
Location	txt	MOONPOOL
Make	txt	RADOIL
Type	txt	MUX REEL
Maximum storage length each	ft	8000
<b>E.11.1A AUX HOSE REELS</b>		
Quantity	no.	1
Location	txt	MOONPOOL
Make	txt	PATCO
Type	txt	4LINE HOSE FOR FRISER FILL VALVE
Maximum storage length each	ft	1200
Drive motor type	txt	AIR
<b>E.11.2A MUX CABLE</b>		
Location	txt	MOONPOOL
Length	ft	8000
OD CABLE	in	0,81
Control line ID	in	N/A
Quantity total	no.	N/A
Quantity spare (whem new)	no.	N/A
Control line ID	in	N/A
Quantity total	no.	N/A
Quantity spare (whem new)	no.	N/A
Control line ID	in	N/A
Quantity total	no.	N/A
Quantity spare (whem new)	no.	N/A
<b>E.12 ACOUSTIC EMERGENCY BOP CONTROL SYSTEM</b>		
Make	txt	KONGSBERG / HYDRIL
Model	txt	ACS 433 WITH ACC 401
Type	Fixed/Portable	PORTABLE
Number of functions	no.	8
Type of functions		1-ALL STABS RETRACT, 2-AUTOSHEAR ARM, 3-UPPER PIPE RAM CLOSE, 4-BLIND SHEAR RAM CLOSE, 5- CASING SHEAR RAM CLOSE, 6-BLIND SHEAR RAM OPEN, 7- RISER CONNECTOR PRI/SEC UNLOCK, 8- STACK CONNECTOR PRI/SEC UNLOCK.
LMRP connector release	yes/no	YES
Shear ram close	yes/no	YES
<b>E.13 SUBSEA AUXILIARY EQUIPMENT</b>		
<b>E.13.1 HOLE POSITION INDICATOR</b>		
Make	txt	HYDRIL
Type	txt	MUX MULTI ANGLE TILT
Quantity of monitors	no.	SUB SEA WORKSHOP, CCU, DOGHOUSE, T/P OFFICE
Monitor location	txt	SUB SEA WORKSHOP, CCU, DOGHOUSE, T/P OFFICE
Monitor location	txt	SUB SEA WORKSHOP, CCU, DOGHOUSE, T/P OFFICE
Recorder	yes/no	N/A
<b>E.13.2 RISER ANGLE INDICATOR</b>		
Make	txt	HYDRIL KONGSBERG
Type	txt	AA353
Quantity of monitors	no.	9
Monitor location	txt	SUB SEA WORKSHOP, CCU, DOGHOUSE, T/P OFFICE
Monitor location	txt	SUB SEA WORKSHOP, CCU, DOGHOUSE, T/P OFFICE
Recorder	yes/no	NO
<b>E.13.3 SLOPE INDICATORS</b>		
Make	txt	I-TECH
Quantity	no.	3
<b>Provision for installation on</b>		
BOP	yes/no	YES
Pin connector	yes/no	N/A
Other	txt	LMRP / RISER ADAPTER
<b>E.13.4 UNDERWATER TV SYSTEM</b>		
Make	txt	N/A
Type	txt	N/A
Quantity of TV monitors	no.	N/A
Monitor location	txt	N/A
Monitor location	txt	N/A
Reels/cables for maximum water depth	ft	N/A

<b>E. WELL CONTROL/SUBSEA EQUIPMENT</b>		
TV frame type	txt	N/A
Pan/tilt unit	yes/no	N/A
Spare camera	yes/no	N/A
Spare cable	yes/no	N/A
<b>E.13.5 ROV SYSTEM</b>		
Quantity	no.	ONE (1)
Make	txt	OCEANEERING
Type	txt	MAGNUM
Monitor location	txt	Control Cabin
Monitor location	txt	N/A
Provided by (operator, contractor)	txt	OCEANEERING
Maximum water depth	ft	6200
Cameras - color	no.	YES
Cameras - B & W	no.	YES
<b>Manipulators</b>		
Quantity	no.	1
Type (spacially correspondent, rate, grabber)	txt	Shilling Robotics Conan - Rate Pack Controller
Functions	txt	7
Quantity	no.	1
Type (spacially correspondent, rate, grabber)	txt	Shilling Robotics Rig Master - Rate Pack Controller
Functions	txt	5
Quantity	no.	N/A
Type (spacially correspondent, rate, grabber)	txt	N/A
Functions	txt	N/A
<b>Sonar</b>		
Type	txt	Tritech - Super Seaking DST
Type	txt	N/A
<b>E.14 CHOKE MANIFOLD</b>		
<b>E.14.1 CHOKE MANIFOLD</b>		
Make	txt	CAMERON
Minimum ID	in	3,0625
Maximum WP	psi	15000
H2S service	yes/no	YES
Quantity of fixed chokes	no.	0
Make	txt	N/A
Model	txt	N/A
Size (ID)	in	N/A
Quantity of adjustable chokes	no.	4
Make	txt	CAMERON
Model	txt	DRILLING CHOKE
Size (ID)	in	1,75
Quantity of power chokes	no.	2
Make	txt	CAMERON
Model	txt	HYDRAULIC DRILLING CHOKE
Size (ID)	in	1,75
Power choke remote control panel	yes/no	YES
Make	txt	CAMERON
Model	txt	10,000PSI SP/15,000PSICM
Location	txt	DOG HOUSE
Glycol injection	yes/no	NO
<b>E.14.2 FLEXIBLE CHOKE &amp; KILL LINES</b>		
Quantity	no.	2
Make	txt	COPPER STATE
Type	txt	CO-FLEXIP STYLE
ID	in	3
Working pressure	psi	15000
Quantity	no.	
Make	txt	
Type	txt	
ID	in	
Working pressure	psi	
<b>E.15 BOP TESTING EQUIPMENT</b>		
<b>E.15.1 HYDRAULIC BOP TEST PUMP</b>		
Make	txt	HYDRIL / BUTTERWORTH
Model	txt	AC874
Type	txt	TRIPLEX PUMP
Pressure rating	psi	15000
Chart recorder	yes/no	YES
<b>E.15.2 BOP TEST STUMP</b>		
Quantity	no.	2
Test pressure	psi	10k / 15k
Type	txt	VETCO H4
Size	in	16.75" / 18 3/4"
Connected to deck	welded/bolted	BOLTED
<b>E.16 WELLHEAD RUNNING/ RETRIEVING/ TESTING TOOLS</b>		
Wellhead make	txt	N/A
Wellhead type	txt	N/A
Wellhead size	in	N/A
Pressure rating	psi	N/A
<b>E.16.1 RT's FOR CASING INSTALLATION</b>		
Mechanical RT - casing housing sizes	in	N/A
Hydraulic RT - casing housing sizes	in	N/A
Pack off RT - casing housing sizes	in	N/A
Hanger RT - casing hanger sizes	in	N/A
Hanger RT - casing type	txt	N/A
Seal Assembly RT - casing sizes	in	N/A
<b>E.16.2 RRT's FOR CASING INSTALLATION</b>		
Seal Assembly RRT - casing sizes	in	N/A
Wear Bushing RRT - casing sizes	in	N/A
Seat Protector RRT - casing sizes	in	N/A
<b>E.16.3 MISCELLANEOUS TOOLS</b>		
Temporary guide base RT	yes/no	No
BOP stack TT	yes/no	No
Multi-purpose TT	yes/no	No

<b>E. WELL CONTROL/SUBSEA EQUIPMENT</b>		
Conductor casing jetting head	yes/no	No
Clean out tool	yes/no	No
Lock ring wellhead release tool	yes/no	No
Seal assembly torque tool	yes/no	No
Utility guide frame	yes/no	No
Guide frame adaptor sizes	txt	No
<b>E.16.4 Booster lines (if Fitted)</b>		
OD drill pipe	in	N/A
Quantity	no.	N/A
Connection type	txt	N/A
Grade	txt	N/A
Hang off method	sq. shoulder/doughnut	N/A
<b>E.16.5 MINI HOSE BUNDLE FOR USE WITH HYDRAULIC RUNNING TOOLS</b>		
Control line ID	in	HYDRAULIC B.O.P. HOT LINE 0.5
Quantity of lines	no.	1
Control line ID	in	
Quantity of lines	no.	
<b>E.16.6 EMERGENCY BOP RECOVERY SYSTEM</b>		
Emergency BOP recovery system	yes/no	YES / DUAL
Make	txt	HYDRIL
Type	txt	220 TON DRILL PIPE RECOVERY AND OPERATION SYSTEM
<b>E.17 BOP ELECTRONIC CONTROLS</b>		
Make (DP)	txt	HYDRIL MUX
Model (DP)	txt	3132961-01-OMCD, Rev A1
Software Version	txt	4,3
Attached Data Logger Available	yes / no	YES
External Data Port (Serial/Ethernet/etc ...) Available on Data Logger	yes / no	YES
Serial/Parallel Port for Alarm Printer Available	yes / no	YES

<b>F. MUD SYSTEM/BULK SYSTEM</b>		
<b>F.1 HIGH PRESSURE MUD SYSTEM</b>		
System working pressure	psi	5000
System test pressure	psi	5000
Built to which design standard	txt	API
<b>F.1.1 MUD PUMPS</b>		
Quantity	no.	3
Make	txt	NOV
Model	txt	12-p-160
Type	triplex/duplex	triplex
Liner sizes available	in	5,5 / 6 / 6,5 / 7
Mud pump drive motors	no.	2
Motor Type	txt	5GE752
Continuous power rating per motor	hp	800
Fluid end	type	southwest
Maximum working pressure	psi	4670
Test pressure	psi	5000
Pump stroke counter	type	Mechanical
Supercharging pump	type	Mission
Drive by motor of power	hp	125
Discharge	in	6
Suction line ID	in	8
M.P. Pulsation dampener	type	National k-20
Reset Relief Valve	type	Oteco
Working flowrate per pump at 90% of max spm		675 GPM
Line size	in	6"
Pump speed (90% of max.)	spm	100
Pump pressure	psi	3400 / 5555
Working flowrate @ 100% volumetric output	U.S. gal/min	621
<b>F.1.2 TRANSFER PUMPS/MIXING PUMPS</b>		
<b>F.1.2.1 TRANSFER PUMPS</b>		
Quantity	no.	1
Make	txt	Halco
Model	txt	2500
Type	txt	centrifugal
Drive motor type	txt	GE
Power output	hp	100
<b>F.1.2.2 MIXING PUMPS</b>		
Quantity	no.	3
Make	txt	Halco
Model	txt	2500
Type	txt	centrifugal
Drive motor type	txt	WEG
Power output	hp	100
<b>F.1.4 STANDPIPE MANIFOLD</b>		
Quantity of standpipes	no.	2
Standpipes ID	in	4
H-Type standpipe manifold	yes/no	Yes
Kill line outlet	yes/no	Yes
Fill-up/bleed-off line outlet	yes/no	Yes
Outlets (total)	no.	4
ID	in	2/4
Type connections	txt	Welded
Dimensions OD	in	7 5/8" TP - 5 1/2
Dimensions ID	in	4"
Design standard	txt	API-6A-16A
<b>F.1.5 ROTARY HOSES</b>		
Quantity	no.	2
Make	txt	Cooper State
Model	txt	
ID	in	3 1/2
Length	ft	95
Snubbing lines	yes/no	Yes
Quantity	no.	2
Make	txt	wire sling
Model	txt	N/A
ID	in	
Length	ft	
Snubbing lines	yes/no	
<b>F.1.6 CEMENTING HOSE</b>		
Type	txt	Black Eagle
Length	ft	38
ID	in	2
Working pressure	psi	10000
Type	txt	Black Eagle
Length	ft	38
ID	in	2
Working pressure	psi	10000
<b>F.1.7 CHIKSAN STEEL HOSES</b>		
Integral non-screwed	yes/no	Yes
Make	txt	FMC
Type	txt	10
ID	in	2
Section length	ft	Assorted (Inform each length)
Quantity	no.	9
Section length	ft	66
Quantity	no.	4
Sweep swivels make	txt	FMC
Sweep swivels type	txt	10
Nom. size ID	in	2
Fittings, non-screwed type	yes/no	Yes
Suitable for H2S service	yes/no	Yes
<b>F.2 LOW PRESSURE MUD SYSTEM</b>		
<b>F.2.1 MUD TANKS</b>		
Quantity	no.	7

F. MUD SYSTEM/BULK SYSTEM		
Total capacity	bbl	5771
height	ft	14'
Capacity, Tank No. 1	bbl	389
Type	active/reserve	active
Capacity, Tank No. 2	bbl	623
Type	active/reserve	active
Capacity, Tank No. 3	bbl	493
Type	active/reserve	active
Capacity, Tank No. 4	bbl	628
Type	active/reserve	active
Capacity, Tank No. 5	bbl	413
Type	active/reserve	Reserve
Capacity, Tank No. 6	bbl	381
Type	active/reserve	Reserve
Capacity, Tank No. 7	bbl	1800
Type	active/reserve	Reserve
Capacity, Tank No. 8	bbl	
Type	active/reserve	
Mud agitator in each tank	yes/no	yes
Mud guns in each tank	yes/no	Yes
<b>F.2.2 SETTLING TANK</b>		
Quantity	no.	1
Total capacity	bbl	413
<b>F.2.3 PILL/SLUG TANK</b>		
Capacity	bbl	60
Mud agitator	yes/no	no
Mud guns	yes/no	Yes
Capacity	bbl	60
Mud agitator	yes/no	no
Mud guns	yes/no	yes
<b>F.2.4 TRIP TANK</b>		
Capacity	bbl	50
Capacity/unit length	bbl/ft	2.7
Level indicator	yes/no	yes
Electric pump make	txt	GE
Model	txt	Mission
Type	txt	2500
Motor Output	hp	75
Facility for casing fill-up	yes/no	yes
Alarm and strip chart recorder	yes/no	yes
<b>F.2.5 STRIPPING TANK</b>		
Capacity	bbl	7.13
Capacity/unit length	bbl/ft	82"
Equalizing facility with trip tank	yes/no	yes
Transfer pump	yes/no	no
<b>F.2.6 CHEMICAL MIXING TANK</b>		
Capacity	bbl	N/A
Chemical mixer type		N/A
<b>F.2.7 SHALE SHAKERS</b>		
Primary:		4
Quantity	no.	4
Make	txt	Brandt
Model	txt	LCM 2D/CM-2
Type	txt	Cascade
Driven by no. of electric motors	no.	1
Design flowrate	bbl/min	14
Cascading:		
Quantity	no.	
Make	txt	
Model	txt	
Type	no.	
Driven by no. of electric motors	no.	
Design flowrate	bbl/min:	
<b>F.2.8 DESANDER</b>		
Quantity	no.	1
Make	txt	Brandt
Model	txt	LCM-2D / CM 24-3
Type	txt	12" Involute
Number of cones	no.	3
Size	in	12"
Type/size centrifugal pump	txt	Mission 8 x 6
Driven by electric motor of	hp	100
Is pump dedicated to desander	yes/no	yes
Max. flowrate	bbl/min	23,8
<b>F.2.9 DESILTER</b>		
Quantity	no.	1
Make	txt	Brandt
Model	txt	LCM-2D
Type	txt	Hydracyclon
Number of cones	no.	24
Size	in	4"
Type/size centrifugal pump	txt	Mission 8 x 6
Driven by electric motor of	hp	55
Is pump dedicated to desilter	yes/no	yes
Max. flowrate	bbl/min	23,8
<b>F.2.10 MUD CLEANER</b>		
Quantity	no	N/A
Make	txt	N/A
Model	txt	N/A
Type	txt	N/A
Number of cones	no.	N/A
Size	in	N/A
Type/size centrifugal pump	txt	N/A
Driven by electric motor of	hp	N/A

<b>F. MUD SYSTEM/BULK SYSTEM</b>		
Is pump dedicated to mud cleaner	yes/no	N/A
Max. flowrate	bbl/min	N/A
<b>F.2.11 MUD/GAS SEPARATOR (Poor Boy)</b>		
Make	txt	NOV
Type	txt	Vertical Poor Boy Degasser
Gas discharge line ID	in	10
Gas discharge location, primary	txt	Crown
Can discharge be tied into burner system	yes/no:	No
Mud seal height	ft	27
Calculated gas throughput	mmscf	20
<b>F.2.12 DEGASSER</b>		
Make	txt	Brandt
Type	txt	VG-1 Hyflo
Centrifugal pump type	txt	Mission Magnum
Centrifugal pump size	in x in	8 x 6
Driven by electric motor of power	hp	100
Discharge line running to	txt	Sand Trap
Vacuum pump make	txt	Ingersoll Rand
Type	txt	Type 30 Model 255
<b>F.2.13 MUD AGITATORS</b>		
Quantity	no.	6
Make	txt	Brandt
Model	txt	20-HP
Driven by motor of power	hp	55
Located in tanks		1,2,3,4,5,6
Quantity	no.	N/A
Make	txt	N/A
Model	txt	N/A
Driven by motor of power	hp	N/A
Located in tanks		N/A
Quantity	no.	N/A
Make	txt	N/A
Model	txt	N/A
Driven by motor of power	hp	N/A
Located in tanks		N/A
<b>F.2.14 MUD CENTRIFUGE</b>		
Quantity	no.	2
Make	txt	BRANDT
Model	txt	HAS 3400
Feed Pump Make	txt	N/A
Feed Pump Model	txt	N/A
Driven by motor of power	hp	40
Capacity	gal/min	200
<b>F.2.15 MUD HOPPER</b>		
Quantity	no.	4
Make	txt	Brandt
Model	txt	Mixture funnels
Feed Pump Make	txt	Halco
Feed Pump Model	txt	2500
Driven by motor of power	hp	75
Capacity	bbl/min	19
<b>F.2.16 Mud Laboratory and Facilities</b>		
Separate room	yes/no	yes
Equipped with		
Mud balance	yes/no	yes
Marsh funnel	yes/no	yes
Filtration kit	yes/no	yes
Sand content kit	yes/no	yes
Stopwatch	yes/no	yes
<b>F.3 BULK SYSTEM</b>		
<b>F.3.1 BARITE/BENTONITE SILOS</b>		
Quantity	no.	4
Capacity of each silo	m3	75
Locations	txt	port aft
Type weight loadcell		135 klb
Manufacturer	txt	M/D Totco
Pressure rating	psi	50
Relief valve(s) installed	yes/no:	yes
Quantity	no.	N/A
Capacity of each silo	lt	N/A
Locations	txt	N/A
Type weight loadcell		N/A
Manufacturer	txt	N/A
Pressure rating	psi	N/A
Relief valve(s) installed	yes/no:	N/A
<b>F.3.2 Cement Silos</b>		
Quantity	no.	6
Capacity of each silo	m3	50
Locations	txt	port aft
Type weight loadcell		90 klb
Manufacturer	txt	M/D Totco
Pressure rating	psi	50
Relief valve(s) installed	yes/no	yes
Separate mud/cement loading facilities	yes/no	yes
Discharge line for cement independent from barite/bentonite discharge line	yes/no	yes
Quantity	no.	N/A
Capacity of each silo	lt	N/A
Locations	txt	N/A
Type weight loadcell		N/A
Manufacturer	txt	N/A
Pressure rating	psi	N/A
Relief valve(s) installed	yes/no	N/A
Separate mud/cement loading facilities	yes/no	N/A
Discharge line for cement independent from barite/bentonite discharge line	yes/no	N/A

F. MUD SYSTEM/BULK SYSTEM		
<b>F.3.3 Surge Tank for Barite</b>		
Quantity	no.	2
Capacity of each tank	lt	7,35
Type weight loadcell		8klib
Manufacturer	txt	M/D Totco
Pressure rating	psi	110
Relief valve(s) installed	yes/no	no
<b>F.3.4 Surge Tank for Cement</b>		
Quantity	no.	1
Capacity of each tank	lt	1,97
Type weight loadcell		8 klib
Manufacturer	txt	B/J
Pressure rating	psi	110
Relief valve(s) installed	yes/no	no
<b>F.3.5 BULK TRANSFER SYSTEM</b>		
Independent air system for the silos and surge tanks consisting of a high-volume low-pressure compressor	yes/no:	yes
Air reduced from main air supply through pressure regulators	yes/no:	yes
Separate volume tank and drier	yes/no:	yes

G. CASING/CEMENTING EQUIPMENT		
<b>G.1 CASING EQUIPMENT</b>		
<b>G.1.1 API Casing Drifts</b>		
For casing OD, weight, quantity	in/lbs/ft/no.	13 3/8
For casing OD, weight, quantity	in/lbs/ft/no.	9 5/8
For casing OD, weight, quantity	in/lbs/ft/no.	7
For casing OD, weight, quantity	in/lbs/ft/no.	
<b>G.1.2 Clamp-On Type Casing Thread Protectors</b>		
For casing OD, quantity	in/no.	13 3/8 - 2
For casing OD, quantity	in/no.	9 5/8 - 2
For casing OD, quantity	in/no.	7 - 2
<b>G.1.3 Side Door Casing Elevator</b>		
Quantity	no.	2
For OD casing	in	30
Make	txt	Varco
Type	txt	SX
Capacity	st	150
Quantity	no.	2
For OD casing	in	20
Make	txt	Varco
Type	txt	SX
Capacity	st	250
Quantity	no.	1
For OD casing	in	13 3/8
Make	txt	Varco
Type	txt	SLX
Capacity	st	150
Quantity	no.	1
For OD casing	in	10 3/4
Make	txt	Varco
Type	txt	SMX
Capacity	st	250
<b>G.1.4 Single Joint Casing Elevators</b>		
Quantity	no.	2
For OD casing	in	20
Make	txt	Varco
Type	txt	SJL
Safety latches	yes/no	no
Wire rope size	in	n/a
Swivel size	in	n/a
Quantity	no.	2
For OD casing	in	13 3/8
Make	txt	Varco
Type	txt	SJL
Safety latches	yes/no	no
Wire rope size	in	n/a
Swivel size	in	n/a
Quantity	no.	1
For OD casing	in	10 3/4
Make	txt	Varco
Type	txt	SJX
Safety latches	yes/no	yes
Wire rope size	in	n/a
Swivel size	in	n/a
Quantity	no.	2
For OD casing	in	9 5/8
Make	txt	Varco
Type	txt	SJL
Safety latches	yes/no	no
Wire rope size	in	n/a
Swivel size	in	n/a
<b>G.1.5 Slip Type Elevator/Spiders</b>		
Quantity	no.	2
Make	txt	Varco
Type	txt	SL / FMS-375
Capacity	st	500/375
W/slips for OD casing sizes	in	9 5/8 - 7
<b>G.1.6 Casing Slips</b>		
Quantity	no.	1
Make	txt	Varco
Type	txt	CMSXL
For OD casing	in	30
Quantity	no.	1
Make	txt	Varco
Type	txt	CMSXL
For OD casing	in	20
Quantity	no.	1
Make	txt	Varco
Type	txt	CMSXL
For OD casing	in	13 3/8
Quantity	no.	1
Make	txt	Varco
Type	txt	CMSXL
For OD casing	in	9 5/8
<b>G.1.7 Casing Bowls</b>		
Quantity	no.	1
Make	txt	Varco
Type	txt	CB
For OD casing (max)	in	20
For OD casing (min)	in	20
Quantity	no.	1
Make	txt	Varco
Type	txt	#3
For OD casing (max)	in	13-3/8
For OD casing (min)	in	10-3/4



<b>G. CASING/CEMENTING EQUIPMENT</b>		
Quantity	no.	1
Make	txt	Varco
Type	txt	#2
For OD casing (max)	in	9-5/8
For OD casing (min)	in	7
<b>G.1.8 Casing Tongs</b>		
Quantity (sets)	no.	1
Make	txt	BJ
Type	txt	HT100
W/jaws for OD casing (max)	in	15
W/jaws for OD casing (min)	in	4
Quantity (sets)	no.	1
Make	txt	BJ
Type	txt	HT50
W/jaws for OD casing (max)	in	30
W/jaws for OD casing (min)	in	13 3/8
<b>G.1.9 Power Casing Tongs</b>		
Quantity	no.	1
Make	txt	Eckel
Type	txt	13 5/8HD
W/jaws for OD casing (max)	in	13 3/8
W/jaws for OD casing (min)	in	7
Max output torque	ft lbs	30000
Torque indicator	yes/no	yes
Back-up arm	yes/no	no
<b>G.1.10 Power Unit For Casing &amp; Tubing Tongs</b>		
Quantity	no.	n/a
Driven by electric motor	yes/no	Ring Main System
<b>G.1.11 Casing Circulating Head (Swedge)</b>		
For OD casing	in	13 3/8
Connection type	txt	Butt
For OD casing	in	9 5/8
Connection type	txt	Butt
For OD casing	in	7
Connection type	txt	Butt
For OD casing	in	
Connection type	txt	
<b>G.1.12 Casing Spears (Internal)</b>		
Quantity	no.	1
Make	txt	Gotco
Type	txt	Grapple
For OD casing	in	13 3/8
For casing weight	lbs/ft	72/85
Pack-off	yes/no	no
Quantity	no.	1
Make	txt	Gotco
Type	txt	Grapple
For OD casing	in	20
For casing weight	lbs/ft	199
Pack-off	yes/no	no
Quantity	no.	1
Make	txt	Gotco
Type	txt	Grapple
For OD casing	in	7
For casing weight	lbs/ft	33
Pack-off	yes/no	
<b>G.1.13 Casing Cutters (Internal)</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
For OD casing (max)	in	N/A
For OD casing (min)	in	N/A
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
For OD casing (max)	in	N/A
For OD casing (min)	in	N/A
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
For OD casing (max)	in	N/A
For OD casing (min)	in	N/A
<b>G.1.14 Crossover to Handle Casing with DP</b>		
Quantity	no.	N/A
For OD casing	in	N/A
Casing connection	txt	N/A
Drill pipe connection type	txt	N/A
Rated capacity	st	N/A
Quantity	no.	N/A
For OD casing	in	N/A
Casing connection	txt	N/A
Drill pipe connection type	txt	N/A
Rated capacity	st	N/A
Quantity	no.	N/A
For OD casing	in	N/A
Casing connection	txt	N/A
Drill pipe connection type	txt	N/A
Rated capacity	st	N/A
<b>G.1.15 Casing Scrapers</b>		
Quantity	no.	1
Make	txt	Bilco
For OD casing	in	9 5/8
For casing weight	lbs/ft	
OD body	in	5 7/16

<b>G. CASING/CEMENTING EQUIPMENT</b>		
Connection type	txt	4 1/2 Reg
Quantity	no.	1
Make	txt	Bilco
For OD casing	in	7
For casing weight	lbs/ft	29
OD body	in	4 3/8
Connection type	txt	3 1/2 Reg
Quantity	no.	
Make	txt	
For OD casing	in	
For casing weight	lbs/ft	
OD body	in	
Connection type	txt	
Quantity	no.	
Make	txt	
For OD casing	in	
For casing weight	lbs/ft	
OD body	in	
Connection type	txt	
<b>G.2 CEMENTING EQUIPMENT</b>		
<b>G.2.1 Cement Unit</b>		
Owner	txt	BJ
Free placement basis	yes/no	No
Make	txt	BJ RAM
Type	txt	BJ RAM
No. of triplex pumps	no.	2
Maximum working pressure	psi	15000
Maximum Flowrate (total)	bbl/min	8
Unit powered by (electric/diesel)		diesel
Recirculating mixing system	yes/no	yes
Capacity	bbl	20
Motor power	hp	670
Liquid additive system	yes/no	yes
Premix/batch tank	U.S. gals/min	N/A
Quantity	no.	N/A
Capacity (total)	bbl	N/A
Pressure recorder	yes/no	yes
<b>G.2.2 Cementing Manifold</b>		
Discharge manifold working pressure	psi	15000
Cement pump discharge lines min. ID	in	
Cement pump discharge lines working pressure	psi	
<b>G.2.3 Cement Kelly</b>		
Quantity	no.	N/A
Nominal size OD	in	N/A
Total length	ft	N/A
Working length	ft	N/A
Connection type	txt	N/A
Cement head	yes/no	N/A
<b>G.2.4 Cementing Tubing</b>		
Size	in	N/A
Length (total)	ft	N/A
X-overs to drillpipe specified in sect D.1.3	yes/no	N/A

<b>H. INSTRUMENTATION/COMMUNICATION</b>		
<b>H.1 DRILLING INSTRUMENTATION AT DRILLER'S POSITION</b>		
<b>H.1.1 WEIGHT INDICATOR</b>		
Make	txt	M/D TOTCO
Type	txt	EB Weight Indicator
Sensor type	txt	Hydraulic Pressure Gauge
Calibrated for number of lines strung (6, 8, 10, 12, etc.)	no.	14
<b>H.1.2 STANDPIPE PRESSURE GAUGES</b>		
Quantity	no.	1
Make	txt	Electro Flow Controls Ltd.
Type	txt	Electronic Gauge
Pressure range (min)	psi	0
Pressure range (max)	psi	5000
Quantity	no.	1
Make	txt	Electro Flow Controls Ltd.
Type	txt	Electronic Gauge
Pressure range (min)	psi	0
Pressure range (max)	psi	1000
Quantity	no.	1
Make	txt	Electro Flow Controls Ltd.
Type	txt	Electronic Gauge
Pressure range (min)	psi	0
Pressure range (max)	psi	15000
<b>H.1.3 CHOKE MANIFOLD PRESSURE GAUGE</b>		
Quantity	no.	3
Make	txt	Electro Flow Controls Ltd.
Type	txt	Electronic Gauge
Pressure range (min)	psi	0 / 0 / 0
Pressure range (max)	psi	1000 / 5000 / 15000
<b>H.1.4 ROTARY SPEED TACHOMETER</b>		
Make	txt	Electro Flow Controls Ltd.
Type	txt	Electronic Gauge
Capacity range (min)	rpm	0
Capacity range (max)	rpm	300
<b>H.1.5 ROTARY TORQUE INDICATOR</b>		
Make	txt	Varco BJ
Type	txt	Electronic Gauge
Max torque	ft lbs	55000
<b>H.1.6 MOTION COMPENSATOR INSTRUMENTS</b>		
Make	txt	Shaffer
Type	txt	position sensor, pressure switches, proximity sensors
Hook position indicator	yes/no	yes
Lock/unlock indicator	yes/no	yes
<b>H.1.7 PUMP STROKE COUNTERS</b>		
Make	txt	M/D TOTCO / Electro Flow Controls
Type	txt	Proximity Sensor / Limit Switch
One pump stroke indicator and one cumulative pump stroke counter for each pump.	yes/no	YES
<b>H.1.8 TONG TORQUE INDICATOR</b>		
Make	txt	M/D TOTCO
Type	txt	Hydraulic Pressure Gauge
Capacity range (maximum)	ft lbs	25000
<b>H.1.9 PIT VOLUME TOTALIZER</b>		
Make	txt	M/D TOTCO
Model	txt	Millitronics XCT12
Floats in active mud tanks	yes/no	yes
Floats in reserve mud tanks	yes/no	yes
Loss/Gain indicator	yes/no	yes
Alarm (audio and visual)	yes/no	yes
<b>H.1.10 MUD FLOW INDICATOR</b>		
Make	txt	M/D TOTCO
Model	txt	Padle Type 270700-Series
High/low alarm (audio and visual)	yes/no	yes
<b>H.1.11 TRIP TANK INDICATOR</b>		
Make	txt	M/D TOTCO
Model	txt	Reed Switch Probe
Chart recorder	yes/no	yes
Alarm	yes/no	yes
<b>H.1.12 GENERAL ALARM SYS.</b>		
	yes/no	Yes
<b>H.1.13 AUTOMATIC DRILLER</b>		
Make	txt	N/A
Type	txt	N/A
<b>H.1.14 REMOTE CHOKE CONTROL UNIT (See E.14.1)</b>		
Make	txt	Cameron/Electro Flow Controls Ltd.
Model	txt	10000psi SP/15000psi CM
<b>H.2 DRILLING PARAMETER RECORDER</b>		
Quantity	no.	4
Location - 1	txt	Dog house
Location - 2	txt	Tool pusher office / Rig Super Office
Make	txt	M/D TOTCO
Type	txt	Rig sense Version 3.21
Quantity of pens	no.	N/A
Parameter recorded	txt	Block Height
Parameter recorded	txt	Top Drive RPM / Torque
Parameter recorded	txt	Return Flow
Parameter recorded	txt	Mud Pit Volume
Parameter recorded	txt	Drain Tank
Parameter recorded	txt	Hook Load
Parameter recorded	txt	Trip Tank Volume
Parameter recorded	txt	Sand trap
<b>H.2 DRILLING PARAMETER RECORDER</b>		
Quantity	no.	4
Location - 1	txt	Dog house
Location - 2	txt	Tool pusher office / Rig Super Office
Make	txt	M/D TOTCO
Type	txt	Rig sense Version 3.21
Quantity of pens	no.	N/A
Parameter recorded	txt	Mud Pump SPM
Parameter recorded	txt	Return Flow

H. INSTRUMENTATION/COMMUNICATION		
Parameter recorded	txt	C&K Pressure
Parameter recorded	txt	Standpipe Pressure
Parameter recorded	txt	Drain Tank
Parameter recorded	txt	Strip Tank
Parameter recorded	txt	Casing Pressure
Parameter recorded	txt	Brine Tank
<b>H.3 INSTRUMENTATION AT CHOKE MANIFOLD</b>		
<b>H.3.1 STANDPIPE PRESSURE GAUGE</b>		
Make	txt	Electro Flow Controls Ltd.
Type	txt	Analogue Gauge
Pressure range (maximum)	psi	6000
<b>H.3.2 CHOKE MANIFOLD PRESSURE GAUGE</b>		
Make	txt	Electro Flow Controls Ltd.
Type	txt	Analogue Gauge
Pressure range (maximum)	psi	15000
H.3.1 and H.3.2 combined on one panel	yes/no	yes
Visible from choke operating position	yes/no	yes
<b>H.4 STANDPIPE PRESSURE GAUGE</b>		
Make	txt	M/D TOTCO
Type	txt	Analogue Gauge
Pressure range	psi	5000
Visible from driller's position	yes/no	yes
<b>H.5 DEVIATION EQUIPMENT</b>		
<b>H.5.1 MEASURING DEVICE</b>		
Quantity	no.	1
Make	txt	Totco
Type	txt	Go-Devils
Deviation range	degree	8°
Quantity	no.	1
Make	txt	Totco
Type	txt	Go-Devils
Deviation range	degree	16°
<b>H.5.2 WIRELINE WINCH</b>		
Make	txt	Mathe
Type	txt	Survayor model 2000
Wire length (nominal)	ft	55000
Depth counter	yes/no	yes
Wire size	inch	0.92
Pull indicator	lbs	N/A
<b>H.6 CALIBRATED PRESS. GAUGES</b>		
Make instrument gauges	txt	Electro Flow Controls Ltd.
Type instrument gauges	txt	Analogue
Size	in	6
Connection	txt	NPT
Range	psi	0-15000
Quantity	no.	6
Facilities to install gauges on		Yes
Standpipe manifold	yes/no	Yes
Choke manifold	yes/no	Yes
Cement unit	yes/no	Yes
<b>H.7 RIG COMMUNICATION SYSTEM</b>		
<b>H.7.1 TELEPHONE SYSTEM</b>		
No. of stations	no.	100
Make	txt	Gai-tronics
Type	txt	351-001
Explosion proof	yes/no	yes
No. of stations	no.	46
Make	txt	several
Type	txt	several
Explosion proof	yes/no	no
<b>H.7.2 PUBLIC ADDRESS SYSTEM</b>		
Can be combined with above	yes/no	yes
Make	txt	Crown
Type	txt	COM-Tech 410
Explosion proof	yes/no	yes
<b>H.7.3 DRILL FLOOR - DERRICKMAN'S TALKBACK (For Intercom System)</b>		
No. of stations	no.	1
Location	txt	Driller's house
Location	txt	Monkey Board
Location	txt	ROV
Make	txt	VODEC
Type	txt	DX3MC16
Explosion proof	yes/no	yes
<b>H.7.4 HAND-HELD VHF RADIOS</b>		
Quantity	no.	2
Make	txt	Motorola
Type	txt	Pro 5150
<b>H.8 ENVIRONMENTAL INSTRUMENTATION</b>		
<b>H.8.1 TEMPERATURE INDICATORS</b>		
Air temperature	yes/no	yes
Make	txt	Kongsberg
Model	txt	Vaisala Weather Transmitter WXT536
Sea water temperature	yes/no	yes
Make	txt	N/A
Model	txt	N/A
Recorder	yes/no	N/A
<b>H.8.2 BAROMETRIC PRESSURE</b>		
Make	txt	Kongsberg
Model	txt	Vaisala Weather Transmitter WXT536
Recorder	yes/no	yes
<b>H.8.3 HUMIDITY SENSING INDICATOR</b>		
Make	txt	Kongsberg
Model	txt	Vaisala Weather Transmitter WXT536
Recorder	yes/no	yes

<b>H. INSTRUMENTATION/COMMUNICATION</b>		
<b>H.8.4 WIND SPEED/DIRECTION METER</b>		
Make	txt	Kongsberg
Model	txt	Vaisala Weather Transmitter WXT536
Recorder	yes/no	yes
<b>H.8.5 WAVE PROFILE RECORDER</b>		
Make	txt	N/A
Model	txt	N/A
Recorder	yes/no	N/A
<b>H.9 ADDITIONAL MODULE SPECIFIC INSTRUMENTATION</b>		
<b>H.9.1 ROLL, PITCH AND HEAVE INDICATOR</b>		
Make	txt	Kongsberg
Model	txt	MRU 2 and MRU 5+
Recorder	yes/no	K-POS DP Datalogger
<b>H.9.2 GYRO COMPASS</b>		
Make	txt	Teledyne
Model	txt	TSS 931030
Located at	txt	DP room and ET Work shop
<b>H.9.3 ECHO SOUNDER</b>		
Make	txt	Kongsberg
Model	txt	SIMRAD EA 400
Located at	txt	Bridge
Recorder	yes/no	yes
<b>H.9.4 CURRENT INDICATOR</b>		
Make	txt	N/A
Model	txt	N/A
Located at	txt	N/A
Recorder	yes/no	N/A
<b>H.9.5 WEATHER FACSIMILE RECORDER</b>		
Make	txt	N/A
Model	txt	N/A
Located at	txt	N/A
Recorder	yes/no	N/A
<b>H.9.6 RADAR</b>		
Quantity	no.	2
Make	txt	FURUNO
Model	txt	FAR 2117
Located at	txt	1 x FWD, 1 x AFT
Bandwidth		X Band
Quantity	no.	1
Make	txt	FURUNO
Model	txt	FAR 2137S
Located at	txt	FWD
Bandwidth		S Band
<b>H.10 RADIO EQUIPMENT</b>		
Location	txt	RADIO ROOM
<b>H.10.1 SSB TRANSCEIVER</b>		
Quantity	no.	1
Make	txt	FURUNO
Model	txt	FS-2570
Power	watts	200
Frequency ranges (Synthesized/crystal)	mhz	16
Facsimile capable	yes/no	no
Telex capable	yes/no	no
<b>H.10.2 E.P.I.R.B's</b>		
Quantity	no.	1
Make	txt	COBHAM
Model	txt	RLB38/2876
<b>H.10.3 VHF RADIO TELEPHONE</b>		
Quantity	no.	2
Make	txt	FURUNO
Model	txt	FM-8800S
Power	watts	25
Channels		MULTI -CHANNEL
<b>H.10.4 VHF RADIO TRANSCEIVER</b>		
Quantity	no.	3
Make	txt	STANDARD-HORIZON
Model	txt	QUEST
Power	watts	25
<b>H.10.5 RADIO BEACON TRANSMITTER</b>		
Quantity	no.	1
Make	txt	Southern Avionics
Model	txt	SS-500MVS
Power	watts	500
<b>H.10.6 AEORNAUTICAL VHF TRANSCEIVER</b>		
Quantity	no.	2
Make	txt	ICOM
Model	txt	IC-A110 / IC-A120
Power	watts	36
Frequency range (Synthesized/crystal)	hz	118.000-136.975 MHz
	:	Unknown
<b>H.10.7 WATCH RECEIVER</b>		
Quantity	no.	NA
Make	txt	NA
Model	txt	NA
Frequency	khz	NA
<b>H.10.8 SCRAMBLER</b>		
Quantity	no.	NA
Make	txt	NA
Model	txt	NA
<b>H.10.9 TELEX</b>		
Quantity	no.	1
Make	txt	FURUNO
Model	txt	IB-583

H. INSTRUMENTATION/COMMUNICATION		
H.10.10 SATELLITE COMM. SYS.		
Make	txt	SAILOR
Model	txt	FBB 250
Type	txt	FLEET Broaband
Facsimile link	yes/no	yes
Telex link	yes/no	yes
Telephone link	yes/no	yes
Other capabilities	txt	email/internet

I. PRODUCTION TEST EQUIPMENT		
<b>I.1 BURNERS</b>		
Make	txt	SCHLUMBERGER
Type	txt	EVERGREEN BURNER – BRHE-AC
Quantity	no.	One (1) per boom.
Capacity	bbl/day	15000 (BOPD)
Weight	KG	900
Water requirement at 100 psi	m3/hr	200
<b>1.2 BURNER BOOMS</b>		
Make	txt	CONTROTERMI
Type	txt	HORIZONTAL WITH SLEW MECHANISM
Quantity	no.	2
Length	ft	75
Horizontal	yes/no	yes
Height above sea level (at drilling draft)	ft	54
Maximum wind speed	knots	60
Walkway and handrails	yes/no	yes
Burner platform size	ft x ft	7 x 7
Burner mounting rotatable	yes/no	no
Regulatory approvals	txt	
<b>1.3 LINES REQUIRED ON BURNER BOOMS</b>		
<b>1.3.1 OIL LINE</b>		
ID	in	3
Working pressure	psi	2500
Connection type at burner end	txt	602 F
H2S	yes/no	NO
Pressure gauge connection at barge end	in	NO
<b>1.3.2 GAS LINE</b>		
ID	in	4
Working pressure	psi	2500
Extended beyond burner by	ft	75
Connection type at burner end	txt	602 F
H2S	yes/no	NO
Pressure gauge connection at barge end	in	NO
<b>1.3.3 WATER LINE</b>		
ID	in	4
Working pressure	psi	300
Connection type at burner end	txt	602 F
Pressure gauge connection at barge end	in	NO
<b>1.3.4 AIR LINE</b>		
ID	in	3
Working pressure	psi	2500
Connection type at burner end	txt	602 M
Pressure gauge connection at barge end	in	NO
<b>1.3.5 PILOT GASLINE</b>		
ID	in	13-mm[½-in]
Working pressure	psi	2500
Connection type at burner end	txt	13mm[½-in] NPT pin (from 13-mm[½-in])
Pressure gauge connection at barge end	in	NO
<b>I.4 SPRINKLER SYSTEM</b>		
Sufficient to give protection to rig and personnel against heat radiation damage from the burners	yes/no:	YES
<b>1.5 FIXED LINES FOR WELL TESTING</b>		
<b>1.5.1 DRILL FLOOR TO SEPARATOR AREA</b>		
Type	Screwed/welded, both	Welded
Quantity	no.	1
Size ID	in	3
Working pressure	psi	6000
Connection type on drill Floor	txt	2" 1502 union at the drill floor
Connection type at separator	txt	3" 602 union at the well test area
Number of valves/lines	no.	1
Size of valves	in	
H2S	yes/no	NO
<b>1.5.2 SEPARATOR AREA TO BOTH BURNER BOOMS</b>		
Type	Screwed/welded, both	BOTH
Quantity	no.	3
Size ID	in	3
Working pressure	psi	2500
Connection type at separator	txt	602 F
Connection type at boom	txt	602 M
Number of valves/lines	no.	2
Size of valves	in	3
H2S	yes/no	NO
Valves installed near separator area for switching gas to either burner.	yes/no	yes
<b>I.5.3 Mud Pumps To Both Burner Booms</b>		
Type	threaded/welded/both	N/A
Quantity	no.	N/A
Size ID	in	N/A
Working pressure	psi	N/A
Number of valves required	no.	N/A
Size of valves	in	N/A
Pump source		N/A
Rated line capacity at 300psi		N/A
<b>I.5.4 RIG AIR SYSTEM TO BOTH BURNER BOOMS</b>		
Type	screwed/welded, both	Welded
Quantity	no.	2
Size OD	in	3
Working pressure	psi	120
Non-return valves fitted	yes/no	NO
Air source		Compressors
<b>I.5.5 OIL STORAGE TANK TO OFFLOAD</b>		
Type	screwed/welded, both	N/A
Quantity	no.	N/A
Size ID	in	N/A
Working pressure	psi	N/A
Connection type at separator area	txt	N/A
<b>I.5.6 SEPARATOR TO VENTSTACK OF RIG</b>		
Type	screwed/welded, both	N/A
Quantity	no.	N/A
Size ID	in	N/A
Working pressure	psi	N/A

<b>I. PRODUCTION TEST EQUIPMENT</b>		
Connection type at separator area	txt	N/A
<b>I.6 AUXILIARY POWER AVAILABILITY</b>		
<b>I.6.1 FOR FIELD LABORATORY</b>		
Quantity	no.	2
Volts	v	440
Frequency	hz	60
<b>I.6.2 FOR CRUDE TRANSFER PUMP</b>		
Quantity	no.	2
Volts	v	440
Frequency	hz	60
<b>I.6.3 FOR ELECTRIC HEATERS</b>		
Quantity	no.	2
Volts	v	440
Frequency	hz	60



<b>K. ACCOMMODATION</b>		
<b>K.1 OFFICES</b>		
<b>K.1.1 Company Representative's Office</b>		
Quantity	no.	7
Complete with desk, filing cabinet(s) and other necessary furniture	yes/no	yes
Unrestricted view to drill floor	yes/no	no
<b>K.1.2 Contractor's Representative's Office</b>		
Quantity	no.	2
Unrestricted view to drill floor	yes/no	no
<b>K.1.3 RADIO ROOM</b>		
Quantity	no.	1
<b>K.1.4 HOSPITAL ROOM</b>		
Number of beds/bunks	no.	1
Wash basin	yes/no	yes
Medical cabinet	yes/no	yes
Dangerous drugs locker	yes/no	yes
<b>K.2 LIVING QUARTERS</b>		
<b>K.2.1 TOTAL PERSONS ACCOMODATED</b>		
Quantity	no.	130 (as per certificate) - max. 160
<b>K.2.2 ACCOMODATION FOR COMPANY'S PERSONNEL</b>		
Total quantity	no.	120
Quantity of single bed rooms	no.	7
C/W attached toilet	yes/no	yes
Quantity of two bed rooms	no.	33
C/W attached toilet	yes/no	yes
Quantity of tree bed rooms	no.	2
C/W attached toilet	yes/no	yes
Quantity of four bed rooms	no.	11
C/W attached toilet	yes/no	yes
<b>K.2.3 ACCOMODATION FOR CONTRACTOR'S PERSONNEL</b>		
Total quantity	no.	40
Quantity of single bed rooms	no.	2
C/W attached toilet	yes/no	yes
Quantity of two bed rooms	no.	19
C/W attached toilet	yes/no	yes
Quantity of four bed rooms	no.	0
C/W attached toilet	yes/no	no
<b>K.2.4 GALLEY</b>		
Quantity	no.	1
<b>K.2.5 MESS SEATING CAPACITY</b>		
Main mess	no.	60
Aux. mess	no.	60
<b>K.2.6 MEETING ROOMS</b>		
Quantity	no.	2
<b>K.2.7 RECREATION ROOMS</b>		
Quantity	no.	2
Recreation facilities		yes
TV	no.	2
VCR	no.	1
Pool Table	no.	0
Ping Pong Table	no.	0
Computer	no.	2
Other	txt	0
<b>K.2.8 OTHER ROOMS</b>		
Laundry	no.	2
Dry food store	no.	1
Refrigerator	no.	5
Change Rooms	no.	3
Prayer Room	no.	0
Cinema	no.	1
Workout/Weight Room	no.	1

L. SAFETY EQUIPMENT		
L.1 GENERAL SAFETY EQUIPMENT		
L.1.1 GENERAL PERSONNEL PROTECTIVE GEAR		
Safety Hats	contractor only/everyone/not supplied	100
Safety boots	contractor only/everyone/not supplied	90
Safety clothing	contractor only/everyone/not supplied	100
Ear protection	contractor only/everyone/not supplied	80
Rubber gloves	contractor only/everyone/not supplied	100
Rubber aprons	contractor only/everyone/not supplied	30
Fullface visors	contractor only/everyone/not supplied	150
Eye shields (for grinding machines, etc.)	contractor only/everyone/not supplied	53
Dust masks	contractor only/everyone/not supplied	100
Rubber gloves - elbow length for chemical handling	contractor only/everyone/not supplied	30
Explosion proof handtorches c/w batteries	contractor only/everyone/not supplied	12
Safety belts c/w lines	contractor only/everyone/not supplied	25
L.1.2 EYE WASH STATIONS		
Quantity	no.	17
Make	txt	HAWS
Model	txt	7501 PORTABLE EYEWASH
Located at	txt	UPPER SACSTORE
Located at	txt	PONTOON - STB AFT
Located at	txt	EMERGENCY STATION 1
L.1.3 DERRICK SAFETY EQUIPMENT		
Derrick escape chute (rem chute)	no.	2
Make	txt	DRAGER
Type	txt	15MIN.
Derrick safety belts	no.	2
Make	txt	DBI SALA
Type	txt	CADEIRA
L.1.4 DERRICK CLIMBING ASSISTANT		
Make	txt	Sala
Type	txt	Static
L.1.5 FRESH AIR BLOWERS (Bug Blowers)		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
Located at	txt	N/A
Located at	txt	N/A
L.2 GAS/FIRE/SMOKE DETECTION		
L.2.1 H2S MONITORING SYSTEM		
Make	txt	Notifier
Type	txt	AM 2020
Sampling points at:		Well test, Accommodation A/C inlet, mud pump room, upper deck air intake engine room 3, drill floor, dog house, moonpool, flow line out, shale shaker, mud pits, mud pump room, mud lab, rotary table, trip tank, brine tank, compressor room intake
Bellnipple	yes/no	Yes
Drillfloor	yes/no	Yes
Shale shaker	yes/no	Yes
Mud tanks	yes/no	Yes
Ventilation system into living quarters	yes/no	Yes
Other	txt	Moon pool, brine tank, compressor rm, mud lab, mud pump, fan house, well test and trip tank
General alarm	yes/no	Yes
Alarm types (audible, visual, both) at:		both
Driller's console	yes/no	Yes
Engine room	yes/no	Yes
Mud room	yes/no	Yes
Living quarters each level	yes/no	Yes
Central area each structural level	yes/no	Yes
Other	txt	brine pump room
Central alarm panel	yes/no	Yes
Located at	txt	OCC
L.2.2 COMBUSTIBLE GAS MONITORING SYSTEM		
Make	txt	Notifier
Type	txt	AM 2020
Sampling points at:		Well Test, moonpool STB, Drill Floor Choke Kill, Dog House, Shale Shaker, Flow Line out, mud pits, mud pump room, transformer room, battery locker, fan house engine room 1 & 2, upper deck intake engine room 3, accommodation A/C intake, mud lab, rotary table, trip tank, brine tank, compressor intake
Bellnipple	yes/no	Yes
Drill floor	yes/no	Yes
Shale Shaker	yes/no	Yes
Mud tanks	yes/no	Yes
Ventilation system into living quarters	yes/no	Yes
Other	txt	Moon pool, compressor room, brine tank, trip tank, mud lab, ER 1&2 intake, battery rm, tx rm, mud pump and well test
General alarm	yes/no	Yes

<b>L. SAFETY EQUIPMENT</b>		
Alarm types (audible, visual, both) at:		both
Driller's console	yes/no	Yes
Other	txt	brine pump room
<b>L.2.3 H2S DETECTORS (Portable)</b>		
Quantity	no.	6
Make	txt	Altair
Type	txt	4X
Phials for H2S: measuring range		calibrate with H2S = 25PPM, CO2 = 50PPM, Methane 50%, Oxygen 18%, nitrogen balance
from 1 to 20 ppm	no.	N/A
from 100 to 600 ppm	no.	N/A
<b>L.2.4 CO2 GAS DETECTORS (Portable)</b>		
Quantity	no.	6
Make	txt	Altair
Type	txt	4X
Phials for CO2: measuring range		calibrate with H2S = 25PPM, CO2 = 50PPM, Methane 50%, Oxygen 18%, nitrogen balance
from 1 to 20 ppm	no.	N/A
from 20 to 200 ppm	no.	N/A
from 250-3000 ppm	no.	N/A
<b>L.2.5 EXPLOSIMETERS</b>		
Quantity	no.	6
Make	txt	MSA
Type	txt	ALTAIR 4X
<b>L.2.6 FIRE/SMOKE DETECTORS IN ACCOMODATION</b>		
Make	txt	Salwico
Type	txt	Nid 38
Fire detection	yes/no	Yes
Smoke detection	yes/no	Yes
Central alarm panel	yes/no	Yes
Location	txt	OCC
<b>L.3 FIRE FIGHTING EQUIPMENT</b>		
<b>L.3.1 FIRE PUMPS</b>		
Quantity	no.	2
Make	txt	HAMWORTHY KSE
Model	txt	VERTICAL
Type	txt	CENTRIFUGAL
Output	US gals/min	440
All offtake points supplied by each pump	yes/no	Yes
Location of pumps	txt	Pontoon Stbd Aft
Location of pumps	txt	Pontoon Port Aft
Fire fighting water delivery conforms to IMO MODU Spec	yes/no	Yes
MODU spec version	txt	1979
<b>L.3.2 HYDRANTS AND HOSES</b>		
Hydrants positioned such that any point may be reached by a single hose length from two separate hydrants	yes/no	Yes
Quantity of hydrants	no.	78
Hose connections/hydrant	no.	100
Hose max. diam.	in	2 1/2
Length	ft	65
<b>L.3.3 PORTABLE FIRE EXTINGUISHERS</b>		
Quantity (total)	no.	164
Type 1 - CO2	no.	111
Type 2 - Dry chemical	no.	26
Type 3 - Foam	no.	12
Mounted adjacent to access ways and escape routes	yes/no	YES
<b>L.3.4 FIRE BLANKETS</b>		
Location	txt	Fire Stations No.1 and 2
Quantity	no.	12
<b>L.3.5 FIXED FOAM SYSTEM</b>		
Automatically injected into fixed fire water system at central point with remote manual control	yes/no	Yes
Make	txt	Chemguard
Type	txt	High expansion Foam
Quantity foam stored on site	ft3	20
Inductor tube	yes/no	Yes
Foam nozzles	no.	3
Located at	txt	Sewage Treatment
Located at	txt	Ht Pump Stbd FWD
Located at	txt	Boiler room
<b>L.3.6 HELIDECK FOAM SYSTEM</b>		
Dedicated system adequate for at least 10 minutes fire fighting at the rate quoted in the IMO MODU code	yes/no	YES
IMO MODU code version	txt	yes
Make	txt	Galvabras
Type	txt	Fixed, Manual Operation
Quantity of monitors	no.	3
Foam type	txt	LGE 3%
Rate	US gals/min	1809
<b>L.3.7 FIXED FIRE EXTINGUISHING SYSTEM</b>		

L. SAFETY EQUIPMENT		
Protected spaces		manifold drillfloor, drawworks, shaleshakers room, subsea room, helideck, heli lounge, 38t crane, drawworks refrigeration unit, subsea unit, 25t crane, upper deck, compressor room, 50t crane, ventilation room, outside accommodations, upper varanda, lifeboats deck, upper sackstore, OCC, AFT PORT column, ROV unit, outside transformers room, AFT STB column, high pressure compressors room, accommodations, corridor mud tanks, pump room, sewage treatment room, lower locker room, lower deck - FWD PORT column, moonpool, incinerator room, engine room 1 & 2, purifier room, workshop, inside & outside AFT STB column, inside & outside AFT PORT column, mud mix room, lower sackstore, mud pump room, engine room 3, upper boiler room, pontoon FWD PORT & STB, pontoon AFT PORT & STB.
Engine room, type	Halon/CO2	Both
Paint locker, type	Halon/CO2	No
Emergency generator, type	Halon/CO2	CO2
SCR room, type	Halon/CO2	CO2
Other (specify location & type)	txt	N/A
Alarms	audible, visual or both	both
Automatic shutting of mechanical ventilation in protected spaces	yes/no	Yes
Remote manual release located at	txt	Control Room
Remote manual release located at	txt	Outside place
Remote manual release located at	txt	N/A
<b>L.3.8 MANUAL WATER DELUGE SYSTEM</b>	yes/no	Yes
Protected spaces	txt	Shale Shakers
Protected spaces	txt	Main deck, drillfloor
Water supplied from fire main line	yes/no	No
<b>L.3.9 WATER SPRINKLER SYSTEM IN ACCOMODATION</b>		
Automatic	yes/no	Yes
Working pressure	psi	87
Pressurized tank capacity	ft3	83.69
<b>L.4 BREATHING APPARATUS</b>		
<b>L.4.1 General Sets</b>		
Quantity	no.	37
Make	txt	MSA
Type	txt	LUXFER
Bottle duration	min	30
Located at:	txt	Accomodation
Located at:	txt	Control Room
Located at:	txt	DRILLFLOOR
Located at:	txt	Shale Shakers
Located at:	txt	MUD PUMP ROOM
Quantity	no.	164
Make	txt	DRAGER
Type	txt	SAVE
Bottle duration	min	15
Located at:	txt	Accomodation
Located at:	txt	Crane 25TON
Located at:	txt	Crane 38TON
Located at:	txt	Crane 50TON
Located at :	txt	Derrick
Located at:	txt	Radio room
<b>L.4.2 Derrickman Escape Sets</b>		
Quantity	no.	2
Make	txt	MSA
Type	txt	LUXFER
Bottle duration	min	30
Located at :	txt	SLUG TANK / MUD PUMP ROOM
<b>L.4.3 Cascade Stations</b>		
Quantity	no.	N/A
Make	txt	N/A
Type	txt	N/A
Locations/outlets at location :	txt	N/A
Locations/outlets at location :	txt	N/A
Locations/outlets at location :	txt	N/A
Locations/outlets at location :	txt	N/A
<b>L.4.4 Breathing Air Recharge Compressor</b>		
Quantity	no.	1
Make	txt	BAUERS COMPRESSOR
Type	txt	DRAGER
Located at :	txt	FIRE STATION n.01
Located at:	txt	
<b>L.4.5 Compressed Air Breathing Apparatus Trolley Unit</b>		
Positive pressure	yes/no	Yes
Make	txt	Drager
Type	txt	Dräger PAS AirPack 1 ST-3560-2003
Air line length	ft	164,04
Compressed air bottles		Twin Cylinder
Quantity	no.	2
Size	ft3	0.42
Including		
Face mask	yes/no	Yes
Demand valve	yes/no	Yes
Microphone	yes/no	No
Safety harness	yes/no	Yes
Safety line(incorporating phone line)	yes/no	No
<b>L.4.6 Air Purity Test Equipment</b>		
Quantity	no.	10
Make	txt	BAUERS COMPRESSOR
Type	txt	DRAGER
<b>L.5 EMERGENCY FIRST AID EQUIPMENT</b>		

<b>L. SAFETY EQUIPMENT</b>		
<b>L.5.1 FIRST AID KITS</b>		
Quantity	no.	9
<b>L.5.2 BURN KITS</b>		
Quantity	no.	4
<b>L.5.3 RESUSCITATORS</b>		
Quantity	no.	1
Charged (spare) oxygen cylinders	no.	3
<b>L.5.4 STRETCHERS</b>		
Quantity	no.	1
Type	txt	OFFSHORE
Located at	txt	Fire Station No. 1
Quantity	no.	1
Type	txt	OFFSHORE
Located at	txt	Fire Station No. 2
Quantity	no.	1
Type	txt	OFFSHORE
Located at	txt	Syck bay
<b>L.6 HELIDECK RESCUE EQUIPMENT</b>		
<b>L.6.1 STORAGE BOXES</b>		
Quantity	no.	1
Construction material	txt	Fiber
Max height open	in	39,37
<b>L.6.2 EQUIPMENT</b>		
Aircraft axe	yes/no	YES
Large firemans rescue axe	yes/no	YES
Crowbar	yes/no	YES
Heavy duty hacksaw	yes/no	YES
Spare blades	yes/no	YES
Grapple hook	yes/no	YES
Length of wire rope attached	ft	32,81
Quick release knife	yes/no	YES
Bolt croppers	yes/no	YES
<b>L.7 RIG SAFETY STORE</b>		
Equipment to repair, recharge and restock		
Foam concentrate :	yes/no	YES
Diy chemical charges :	yes/no	NO
CO2 charges for dry chemical extinguishers :	yes/no	NO
CO2 charges for water extinguishers :	yes/no	YES
CO2 charges for foam extinguishers :	yes/no	YES
Discharge hoses, control nozzles and horns and washers for CO2 extinguishers :	yes/no	YES
Discharge hoses, control nozzles and horns and washers for dry chemical extinguishers:	yes/no	YES
Fire blankets :	yes/no	YES
Fireproof gloves :	yes/no	YES
Rubber gloves-elbow length :	yes/no	YES
Rubber aprons :	yes/no	YES
Rubber boots :	yes/no	YES
Full face visors :	yes/no	YES
Eye shields (for grinding machines, etc.) :	yes/no	YES
Dust masks :	yes/no	YES
Spare safety helmets, boots, overalls :	yes/no	YES
Gloves, hand torches, batteries, etc. :	yes/no	YES
Spare lifebuoys :	yes/no	YES
Spare lifebuoy lights :	yes/no	YES
Fresh air blowers/inductors for ventilating enclosed spaces :	yes/no	YES
Spare life jackets :	yes/no	YES
Safety belts c/w line :	yes/no	YES
Full safety harnesses :	yes/no	YES
Spare derrickman's safety belts :	yes/no	YES
Spare CABA bottles, charged	yes/no	YES
<b>L.8 EMERGENCY WARNING ALARMS</b>		
Approved system to give warning of different emergencies	yes/no	YES
<b>L.9 SURVIVAL EQUIPMENT</b>		
<b>L.9.1 LIFEBOATS</b>		
Make	txt	DREW MARINE
Type	txt	60P Tanker Version Totally Enclosed Lifeboat
Quantity	no.	4
Capacity	person/craft	60
Locations (fore, apt, port, stbd)	txt	FORWARD TWEEN DECK
Fire protection	yes/no	YES
Radios	yes/no	YES
Flares	yes/no	YES
Food	yes/no	YES
First aid kits	yes/no	YES
Make	txt	NA
Type	txt	NA
Quantity	no.	NA
Capacity	person/craft	NA
Locations (fore, apt, port, stbd)	txt	NA
Fire protection	yes/no	NA
Radios	yes/no	NA
Flares	yes/no	NA
Food	yes/no	NA
First aid kits	yes/no	NA
<b>L.9.2 LIFERAFTS</b>		
Make	txt	RFD
Type	txt	CREWSAVER Mk4/VIKING 25 DFK/RFD Surviva Mk II
Quantity	no.	16
Capacity	person/craft	25
Davit launched	yes/no	YES
Locations (fore, apt, port, stbd)	txt	Port Fwd//Starboard Midships main deck

<b>L. SAFETY EQUIPMENT</b>		
Fire protection	yes/no	NO
Radios	yes/no	YES
Flares	yes/no	YES
Food	yes/no	YES
First aid kits	yes/no	YES
Make	txt	NA
Type	txt	NA
Quantity	no.	NA
Capacity	person/craft	NA
Davit launched	yes/no	NA
Locations (fore, apt, port, stbd)	txt	NA
Fire protection	yes/no	NA
Radios	yes/no	NA
Flares	yes/no	NA
Food	yes/no	NA
First aid kits	yes/no	NA
<b>L.9.3 RESCUE BOAT</b>		
Make	txt	QINGDAO
Type	txt	BH-HR7
Engine power		156Kw
<b>L.9.4 LIFE JACKETS</b>		
Make	txt	COSALT PREMIER
Type	txt	FRONT
Quantity	no.	183
<b>L.9.5 LIFE BUOYS</b>		
Make	txt	DATREX
Type	txt	DX0325D SIZE 30
Quantity	no.	13
<b>L.9.6 WORK VESTS</b>		
Make	txt	Staerns Manufacturing Company
Type	txt	1089
Quantity	no.	6
<b>L.9.7 ESCAPE LADDERS/NETS</b>		
Make	txt	NA
Type	txt	NA
Quantity	no.	NA
<b>L.9.8 DISTRESS SIGNALS</b>		
Type	txt	Eurosul
Quantity	no.	14

M. POLLUTION PREVENTION EQUIPMENT		
<b>M.1 SEWAGE TREATMENT</b>		
Make	txt	HAMWORTHY KSE
Model	txt	ST 30 SUPER TRIDENT
System type	txt	Activated sludge/ Suspended aeration
Conforms to (Marpol annex IV, etc.)	txt	Annex IV Marpol 73/78
<b>M.2 GARBAGE COMPACTION</b>		
Make	txt	Iguaçumec
Model	txt	PHV-150
System type	txt	Vertical hydraulic
Conforms to (Marpol annex IV, etc.)	txt	Annex IV Marpol 73/78
Make	txt	N/A
Model	txt	N/A
System type	txt	N/A
Conforms to (Marpol annex IV, etc.)	txt	N/A
<b>M.3 GARBAGE DISPOSAL/GRINDER</b>		
Make	txt	Salvajor
Model	txt	Model 750
System type	txt	Food Waste Disposer
Conforms to (Marpol annex IV, etc.)	txt	Annex IV Marpol 73/78