# **TECHNICAL ATTACHMENT B**

INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS

# STANDARD FORMAT EQUIPMENT LIST JACK-UP DRILLING UNITS

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#### **ADDITIONAL INFORMATION**

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
A. UNIT SPECIFICATIONS			
Rig type:		Jack up	Jack up
Unit/Design/Shape:		BMC160	BMC160
Unit flag:		Liberia	Liberia
Unit classification:		ABS	ABS
	/es/no	Yes	Yes
Which code version:			
Year of Construction:		1981	1981
Construction Yard:		BMC Singapore	BMC Singapore
A.1 MAIN DIMENSIONS / TECHNICAL DESCRIPTION			
Light chip:	kine	11,083.8 kips	11246.08Kips
Light ship:	kips	14,500 Kips	14,500 Kips
Displacement at loadline:	kips	211ft	211ft
Overall length of unit (including Helideck):	ft ft	156ft	156ft
Overall width of unit (including anchor racks):	n ft	151ft	151ft
Hull length:	n ft	156ft	156ft
Hull width: Hull depth:	ft	18 ft.	18 ft.
l •	o. x ft	3 X 217 ft.	3 X 217 ft.
	o. x it ft	Around 170 ft	Around 170 ft
Leg length available below hull: Type of leg:	11	Tubular	Tubular
		Tubulai	Tubulai
Leg spacing (center to center)  Traverse:	ft	128 ft	128 ft
Longitudinal:	ft	113 ft	120 ft
Independent leg or matt:	11	Independent leg	Independent leg
Spud can diameter:	ft	N/A	N/A
Spud can height:	ft	N/A N/A	N/A N/A
Spud can fleight. Spud can footing area:	11	N/A	N/A
Spud can jetting system:Low & High pr (150 & 75)	∩+nei)	N/A	N/A
	/es/no	Yes (on bottom of legs)	Yes
-		,	
	/es/no	Yes	No
Mat dimensions:		N/A	N/A
Length:	ft	N/A	N/A
Width:	ft	N/A	N/A
Depth:	ft	N/A	N/A
Cantilever or slot:		Cantilever	Cantilever
Skid-off: No / Yes		Yes	Yes
Cantilever envelope:			
Reach AFT, from / to:	ft/ft	0 ft to 40 ft	0 ft to 40 ft
Transverse, port/stbd:		12 ft port /12 ft starboard	10 ft port /10 ft S/B
Slot dimensions:		N/A	
Length:	ft		
Width:	ft	l	
Mat slot dimensions:	_	N/A	
Length:	ft		
Width:	ft		
Max. cantilever load:		5001.	400 16 40 5 5 110 5
(combined hook + rotary + setback)	kips	500 kips minimum at	400 Kips, 40 ft aft and 10 ft left
		maximum cantilevered position and 10 ft left or right of the centerline.	or right from centerline
Max. rotary load:		750 kips	1000 kips
Max. setback load:	kips	500 Kips	500 Kips
	bl/day	40bbl / day	40bbl / day
Accommodation for max. # of personnel:	no.	92	92

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
(See K.2.1):			
A.2 STORAGE CAPACITIES			
Fuel:	bbl	2,162 bbl	2,162 bbl
Drilling water:	bbl	6,156 bbl	6,156 bbl
Potable water:	bbl	2,052 bbl	2,052 bbl
Mud processing tank (see F.2):	bbl	1,549 bbl	1,549 bbl
Active liquid mud (see F.2):	bbl	1,549 bbl	1,549 bbl
Independent oil base mud storage:	bbl	, , , , , , , , , , , , , , , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Agitated:	yes/no	Yes	yes
Independent base oil storage:	bbl	34 bbl	34 bbl
Independent brine storage:	bbl	104 bbl	104 bbl
Heavy brine accepted (e.g. bromide):	yes/no	No	
Bulk bentonite/barite: (see F.3)	ft3	4,000 ft3	4,000 ft3
Bulk cement: (see F.3)	ft3	4,000 ft3	4,000 ft3
Sack storage:	sacks	5000 SX (1500 ft3)	5000 SX (1500 ft3)
Pipe rack:	ft2	2392ft2	2392ft2
Upper racks dimensions:	ft x ft	46x52	46x52
Maximum load capacity:	lb/ft2	200 lb/ft2	200 lb/ft2
Lower rack dimensions:	ft x ft	42x44	42x44
Maximum load capacity:	lb/ft2	200 lb/ft2	200 lb/ft2
Other rack:	ft x ft	30x3	30x3
	lb/ft2	100	100
Maximum load capacity: Other rack:	ft x ft	100	100
	lb/ft2		
Maximum load capacity:	ft2	550ft2	550ft2
Miscellaneous storage area: Operator storage area:	ft2	7471ft2	7471ft2
Preload capacity (Required): Time to fill and dump preload:	st	15,000 kips 6 filling / 2 dumping	15,000 kips 6 filling / 2 dumping
•	hrs		o ming / 2 dumping
A.3 JACKUP SYSTEMS			
A.3.1 Jacking Systems		Baker Marine	Baker Marine
Make/type:		BMC / Rack and Pinion	BMC / Rack and Pinion
No jacks or pinions:	no.	18	18
Maximum variable jacking load:			
Jacking speed:	kips	10,800 Kips.	10,800 Kips.
Jacking Speed.	kips ft/min	10,800 Kips. 1 ft/min	10,800 Kips. 1 ft/min
		1 ft/min	•
	ft/min	•	1 ft/min
Rack chocks available:	ft/min yes/no	1 ft/min yes	1 ft/min no
Rack chocks available: Required for field tow: Required for ocean tow:	ft/min yes/no yes/no yes/no	1 ft/min yes yes yes	1 ft/min no no no no
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems	ft/min yes/no yes/no	1 ft/min yes yes yes	1 ft/min no no no no 1
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg):	ft/min yes/no yes/no yes/no	1 ft/min yes yes yes  1 Water Tower	1 ft/min no no no 1 Water Tower
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg):	ft/min yes/no yes/no yes/no	1 ft/min yes yes yes	1 ft/min no no no no 1
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg): Suction distance below hull (max):	ft/min yes/no yes/no yes/no	1 ft/min yes yes yes  1 Water Tower	1 ft/min no
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg): Suction distance below hull (max):  Salt water service pump:	ft/min yes/no yes/no yes/no	1 ft/min yes yes yes  1 Water Tower	1 ft/min no no no 1 Water Tower
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg): Suction distance below hull (max):  Salt water service pump: Quantity:	ft/min yes/no yes/no yes/no no	1 ft/min yes yes yes  1 Water Tower 70 ft.  3 each	1 ft/min no no no 1 Water Tower 70 ft.
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg): Suction distance below hull (max):  Salt water service pump: Quantity: Make/Type:	ft/min yes/no yes/no yes/no no ft	1 ft/min yes yes yes  1 Water Tower 70 ft.  3 each Pleuger/ Submersible	1 ft/min no no no no  1 Water Tower 70 ft.  3 each Pleuger/ Submersible
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg): Suction distance below hull (max):  Salt water service pump: Quantity: Make/Type: Capacity:	ft/min yes/no yes/no no ft no.	1 ft/min yes yes yes  1 Water Tower 70 ft.  3 each Pleuger/ Submersible 830 gl/min	1 ft/min no no no no  1 Water Tower 70 ft.  3 each Pleuger/ Submersible 830 gl/min
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg): Suction distance below hull (max):  Salt water service pump: Quantity: Make/Type: Capacity: @ pressure:	ft/min yes/no yes/no yes/no no ft	1 ft/min yes yes yes  1 Water Tower 70 ft.  3 each Pleuger/ Submersible	1 ft/min no no no  1 Water Tower 70 ft.  3 each Pleuger/ Submersible
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg): Suction distance below hull (max):  Salt water service pump: Quantity: Make/Type: Capacity: @ pressure: Horsepower:	ft/min yes/no yes/no no ft no. gal/min psi	1 ft/min yes yes yes  1 Water Tower 70 ft.  3 each Pleuger/ Submersible 830 gl/min 40 psi	1 ft/min no no no no  1 Water Tower 70 ft.  3 each Pleuger/ Submersible 830 gl/min 40 psi
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg): Suction distance below hull (max):  Salt water service pump: Quantity: Make/Type: Capacity: @ pressure: Horsepower:  Salt water service pump:	ft/min yes/no yes/no yes/no no ft no. gal/min psi hp	1 ft/min yes yes yes  1 Water Tower 70 ft.  3 each Pleuger/ Submersible 830 gl/min 40 psi	1 ft/min no no no no  1 Water Tower 70 ft.  3 each Pleuger/ Submersible 830 gl/min 40 psi
Rack chocks available: Required for field tow: Required for ocean tow:  A.3.2 Raw Water Systems  Pump location (water tower or leg): Suction distance below hull (max):  Salt water service pump: Quantity: Make/Type: Capacity:	ft/min yes/no yes/no no ft no. gal/min psi	1 ft/min yes yes yes  1 Water Tower 70 ft.  3 each Pleuger/ Submersible 830 gl/min 40 psi	1 ft/min no no no no  1 Water Tower 70 ft.  3 each Pleuger/ Submersible 830 gl/min 40 psi

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
@ pressure:	psi		
Horsepower:	hp		
Salt water service pump:			
Quantity:	no.		
Make/Type:			
Capacity:	bbl/min		
@ pressure:	psi		
Horsepower:	hp		
Dedicated preload pumps:		No	No
Quantity:	no.	3 each	3 each
Make/Type:		Pleuger/ Submersible	Pleuger/ Submersible
Capacity:	bbl/min	830 gl/min	830 gl/min
@ pressure:	psi	40 psi	40 psi
Horsepower:	hp	50 hp	50 hp
Dedicated preload pumps:			
Quantity:	no.	N/A	
Make/Type:			
Capacity:	bbl/min		
@ pressure:	psi		
Horsepower:	hp		
A.4 OPERATIONAL CAPABILITIES			
Maximum design water depth capability:	ft	120 ft	120 ft
Outfitted max/min water depth capability:	ft	Max 160 ft / Min 12 ft.	Max 160 ft / Min 12 ft.
Normal minimum water depth capability:	ft	20 ft	20 ft
Draft at load line (deepest):	ft	12 ft	12 ft
Drilling depth capability (rated):	ft	20,000 ft. vertical	20,000 ft. vertical
Transit speed towed (historical avg.):	knots	3 knot ave	3 knots ave
Leg (spud can) below hull in transit (Field Move	): ft	0 / leg flush with bottom of the hull	U / leg tiush with bottom of the
Maximum leg length permitted in tow:		217 ft	217 ft
Ocean tow (Wet):	ft	37 ft below bottom hull	37 ft below bottom hull
Field tow:	ft	0	0
Number of tugs for field tow:	no.	2	2
Associated minimum bollard pull :	st	121.25 st / 242,500 lbs	121.25 st / 242,500 lbs
Anti-roll system:	yes/no	No	No
Maximum preload reaction:	kips	5895.8(footing reaction)	
Bearing pressure at maximum preload:	lb/ft2		
Thrusters:	yes/no	No	
Quantity:	no.	N/A	
Fixed/Azimuthing		N/A	
Total horsepower per thruster:	hp	N/A	
A.5 VARIABLE LOAD CAPACITY (VL) (exclusive of drilling loads)			
(CACIDETTE OF WITHING IDAUS)			
	kina	3 754 king/ 12 ft draft	3273 02/ 12 ft draft
Transit VL capacity:	kips	3,754 kips/ 12 ft draft	3273.92/ 12 ft draft
Transit VL capacity: Drilling VL capacity:	kips	3,500 Kips	<mark>3182</mark>
Transit VL capacity: Drilling VL capacity: Survival VL capacity: Jacking VL capacity:			
Transit VL capacity: Drilling VL capacity: Survival VL capacity:	kips kips	3,500 Kips 3,272 kips	3182 2509 kips
Transit VL capacity: Drilling VL capacity: Survival VL capacity: Jacking VL capacity:	kips kips	3,500 Kips 3,272 kips	3182 2509 kips

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Max. wave period:	sec	10	10
Max. wind velocity	knots	70 knots	70 knots
Max. current velocity:	knots	0	0
Max. heave (double amplitude):	ft		
Max. pitch (double amplitude):	degrees	5	5
Max. roll (double amplitude):	degrees	5	5
Working water depth: Drilling:	ft	160 ft.	160 ft.
Air gap (below bottom of main hull):	ft	44.5 ft.	44.5 ft.
Max. wave height:	ft	28 ft.	28 ft.
Max. wave period:	sec	10 sec.	10 sec.
Max. wind velocity:	knots	58 knots	58 knots
Max. current velocity:	knots	0	0
Survival:	THI TO LO		
Air gap (below bottom of main hull):	ft		35 ft / 110 ff water depth
Max. wave height:	ft		29.52 ft.
Max. wave period:	sec		9.1 sec.
Max. wind velocity:	knots		60.9 knots.
Max. current velocity:	knots		2.33 knots.
Working water depth: Drilling:	ft		
Air gap (below bottom of main hull):	ft		
Max. wave height:	ft		
Max. wave period:	sec		
Max. wind velocity:	knots		
Max. current velocity:	knots		
Survival:	KIIOIO		
Air gap (below bottom of main hull):	ft		
Max. wave height:	ft		
Max. wave period:	sec		
Max. wind velocity:	knots		
Max. current velocity:	knots		
A.7 MOORING SYSTEM			
A.7.1 Anchor Winches			
Quantity:	no.	4	4
Make/model:		BMC 6020	BMC 6020
Type (electric/hydraulic/diesel):		Electric	Electric
Total HP per winch:	hp	40 hp motor	40 hp motor
Rated pull:	st	50,000 lbs line pull.	50,000 lbs line pull.
Control locations (local/remote/both):	51	local	local
A.7.2 Anchors			
Quantity:	no.	4	NO
Make/type:		BMC/ Cast steel stockless	_
Weight:	lbs.	15,900 lbs	
A.7.3 Anchor Lines			
Wire			
Quantity: (installed + spare):	no.	4 each	4 each
Make/type:			
Construction:		IWRC Cable	IWRC Cable

SPE	ECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
	meter:	in	1-1/4"	1-1/4"
Use	ful length (nominal):	ft	2500 ft	2500 ft
A.7.4	Towing Gear			
Towing	bridle size:	in	1 EA 2" X 36 ft Wire Rope	1 EA 2" X <mark>30 ft</mark> Wire Rope
	ip system:			2 EA 2-1/4" X <mark>116</mark> Ft wire rop
Rating:		kips	31.5 t	40.1 T
Spare I	bridle:	yes/no	No	yes
A.7.5	Supply Vessel Mooring System			<b>4</b> "
	n description:		5" Nylon mooring rope	5" Nylon mooring rope
Rating:		st	224000 (KGF)	224000 (KGF)
Locatio	on (port/stbd/both):		Both 4 each	
<b>A.8</b>	MARINE LOADING HOSES		1 00011	
Locatio	on of loading manifolds (port/stbd/both):	no.	Both	Both
A.8.1	Potable Water Hoses			
Quantit	ty:	no.	1	1
Size:		in	3"	3"
Make/t			Alfa Goma T509 / rubber	Alfa Goma T509 / rubber
Color c		yes/no	yes	yes
Make/t	ype connection:		Swedge type Fig 100 union	Swedge type union
A.8.2	Drilling Water Hose			
Quantit	ty:	no.	1	1
Size:		in	3"	3"
Make/t			Alfa Goma T509 / rubber	Alfa Goma T509 / rubber
Color c		yes/no	Yes	Yes
Make/t	ype connection:		Swedge type Fig 100 union	Swedge type union
A.8.3	Gas/Fuel Oil Hose			
Quantit	ty:	no.	1	1
Size:		in	3"	3"
Make/t			Alfa Goma T609 / rubber	Alfa Goma T609 / rubber
Color c		yes/no	Yes	Yes
Make/t	ype connection:		Swedge type Fig 100 union	Swedge type union
A.8.4	Mud Chemical Hose (Liquid Mud)			
Quantit	ty:	no.	1	1
Size:		in	4"	4"
Make/t		_	Alfa Goma T720 / rubber	Alfa Goma T720 / rubber
Color c		yes/no	No	No
Make/t	ype connection:		Swedge type Fig 100 union	Swedge type union
A.8.5	Cement Hose			
Quantit	ty:	no.	1	1
Size:		in	4"	4"
Make/t			Alfa Goma T720 / rubber	Alfa Goma T720 / rubber
Color c	oding: ype connection:	yes/no	No	No
			Swedge type Fig 100 union	Swedge type union

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
A.8.6 Liquid Mud Hose			
Quantity:	no.	1	1
Size:	in	4"	4"
Make/type:		Alfa Goma T720 / rubber	Alfa Goma T720 / rubber
Color coding:	yes/no	No	No
Make/type connection:	,	Swedge type Fig 100 union	Swedge type union
A.8.7 Brine Hose			
Use:			
Quantity:	no.	1	1
Size:	in	4"	4"
Make/type:		Alfa Goma T720 / rubber	Alfa Goma T720 / rubber
Color coding:	yes/no	No	No
Make/type connection:		Swedge type union	Swedge type union
A.8.8 Other			
Use:			
Quantity:	no.		
Size:	in		
Make/type:			
Color coding:	yes/no		
Make/type connection:			
A.9 CRANES, HOIST, AND MATERIAI HANDLING	L		
A.9.1 Cranes, Revolving			
Quantity:	no.	1	1
Specification (API, etc.):		ABS	ABS
Make:		Baker Marine	Baker Marine
Type:		BMC 900	BMC 900
Location (frwd/aft/port/stbd):		Starboard side	Starboard side
Boom length:	ft	100 ft	100 ft
Hook reach below main deck (block/whip):	ft/ft	173 ft./ 198 ft	173 ft./ 198 ft
Block capacities and hoisting speeds:		25 st 0 to 52 ft/min	25 st 0 to 52 ft/min
g operation			
Load/radius/speed (minimum radius):	st/ft/(ft/sec)	25 st / 20 ft/ 31 ft min	25 st / 20 ft/ 31 ft min
Load/radius/speed (maximum radius):	st/ft/(ft/sec)	7.5 st / 103 ft/ 31 ft min	7.5 st / 103 ft/ 31 ft min
Whip capacity and hoist speed:	st/ft/(ft/sec)	3.3 st / 264 ft/min	3.3 st / 264 ft/min
Hook load indicator automatically:	04.4 (.4.000)		
corrected for boom angle:	yes/no	Yes	Yes
Alarm (audible, visual, both):	y 03/110	Yes	Yes
Automatic brake:	yes/no	yes	yes
Safety latch on hooks:	yes/no	Yes	Yes
Crown saver (limit switch):	yes/no	Yes	Yes
Boom illumination:	yes/no	Yes	Yes
Quantity:	no.	1	1
Specification (API, etc.):	110.	ABS	ABS
Make:		BMC	BMC
		BMC 1600D-CU	BMC 1600D-CU
Type:		Portside	Portside
Location (frwd/aft/port/stbd):	ŧτ	100 ft	100 ft
Boom length:	ft		
Hook reach below main deck (block/whip):	ft/ft	Total length 1840 ft/ 400 ft long 7/8"	Total length 1840 ft/ 400 ft long 7/8"

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Block capacities and hoisting speeds:		50 st / 30 ft radius	50 st / 30 ft radius
Load/radius/speed (minimum radius): Load/radius/speed (maximum radius): Whip capacity and hoist speed:	st/ft/(ft/sec) st/ft/(ft/sec) st/ft/(ft/sec)	50 st / 30 ft 9.5 st / 106.67 ft min 6 st	50 st / 30 ft 9.5 st / 106.67 ft min 6 st
Hook load indicator automatically:	` ,		
corrected for boom angle: Alarm (audible, visual, both):	yes/no	Yes Yes	Yes Yes
Automatic brake:	yes/no	Yes	Yes
Safety latch on hooks:	yes/no	Yes	Yes
Crown saver (limit switch):  Boom illumination:	yes/no yes/no	Yes yes	Yes Yes
Doom mammadon.	ye3/110	yes	163
Quantity: Specification (API, etc.): Make: Type:	no.		NA
Location (frwd/aft/port/stbd):			
Boom length:	ft		
Hook reach below main deck (block/whip): Block capacities and hoisting speeds:	ft/ft		
Load/radius/speed (minimum radius):	st/ft/(ft/sec)		
Load/radius/speed (maximum radius):	st/ft/(ft/sec)		
Whip capacity and hoist speed: Hook load indicator automatically:	st/ft/(ft/sec)		
corrected for boom angle: Alarm (audible, visual, both):	yes/no		
Automatic brake:	yes/no		
Safety latch on hooks:	yes/no		
Crown saver (limit switch):	yes/no		
Boom illumination:	yes/no		
Quantity: Specification (API, etc.): Make:	no.		
Type: Location (frwd/aft/port/stbd):			
Boom length:	ft		
Hook reach below main deck (block/whip): Block capacities and hoisting speeds:	ft/ft		
Load/radius/speed (minimum radius):	st/ft/(ft/sec)		
Load/radius/speed (maximum radius):	st/ft/(ft/sec)		
Whip capacity and hoist speed:	st/ft/(ft/sec)		
Hook load indicator automatically corrected for boom angle:	yes/no		
Alarm (audible, visual, both):	y 00/110		
Automatic brake:	yes/no		
Safety latch on hooks: Crown saver (limit switch):	yes/no yes/no		
Boom illumination:	yes/no		
A.9.2 Forklifts			
Quantity:	no.	1	1
Make/type:	,	Yale / Electric	Yale / Electric
Rated capacity:	st	1.5 st	1.5 st
Explosion proof:	yes/no	No	No
A.9.3 Monorail Overhead Cranes		N/A	

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Quantity:	no.		
Make:			
Type:			
Rated Capacity:	st		
Location(s):			
Quantity:	no.		
Make:			
Type:			
Rated Capacity:	st		
Location(s):			
Quantity:	no.		
Make:			
Type:			
Rated Capacity:	st		
Location(s):			
A.9.4 Air Hoist/Derrick Winches			
A.9.4.1 Rig Floor Winches (Non man-riding)			
Quantity:	no.	1 each / V - door	1 each / V - door
Make:		Ingersoll-Rand	Ingersoll-Rand
Type:		FA5A - LMX1HE	FA5A - LMX1HE
Rated capacity:	lbs	5 st / 10,000 lbs	5 st / 10,000 lbs
Wire diameter:	in	3/4"	3/4"
Automatic brakes:	yes/no	No	No
Overload protection:	yes/no	No	No
Automatic spooling:	yes/no	No	No
Quantity:	no.	1 each / aft	1 each / aft
Make:		Ingersoll-Rand	Ingersoll-Rand
Type:		FA5	FA5
Rated capacity:	st	5 st / 10000 lbs	5.5st / 11000lbs
Wire diameter:	in	3/4"	3/4"
Automatic brakes:	yes/no	Yes	Yes
Overload protection:	yes/no	No	No
Automatic spooling:	yes/no	No	No
A.9.4.2 Monkey Board Work Winch			
Quantity:	no.	1 ea	1 ea
Make:		Ingersoll-Rand	Ingersoll-Rand
Type:		BU7APTAB	ВЙ7АРТАВ
Rated capacity:	lbs	1250 @ 60 ft/min	1250 @ 60 ft/min
Wire diameter:	in	5/16"	5/16"
Automatic brake:	yes/no	No	No
Overload protection:	yes/no	No	No
Quantity: Make:	no.		
Type:			
Rated capacity:	st		
Wire diameter:	in		
Automatic brakes:	yes/no		
Overload protection:	yes/no		
Automatic spooling:	yes/no		

A.9.4.3 Rig Floor "Man-Riding" Winch  Quantity: Make: Type: Rated capacity: Wire diameter: Non-twisted wire: Automatic brakes:	no. Ibs in yes/no yes/no	1 Ingersoll-Rand FA150KGMR/01014 330 lbs / 150 kg 10mm	2 Ingersoll-Rand FA150KGMR/01014
Make: Type: Rated capacity: Wire diameter: Non-twisted wire: Automatic brakes:	lbs in yes/no	Ingersoll-Rand FA150KGMR/01014 330 lbs / 150 kg	Ingersoll-Rand
Make: Type: Rated capacity: Wire diameter: Non-twisted wire: Automatic brakes:	lbs in yes/no	Ingersoll-Rand FA150KGMR/01014 330 lbs / 150 kg	Ingersoll-Rand
Гуре: Rated capacity: Wire diameter: Non-twisted wire: Automatic brakes:	in yes/no	FA150KGMR/01014 330 lbs / 150 kg	
Rated capacity: Wire diameter: Non-twisted wire: Automatic brakes:	in yes/no	330 lbs / 150 kg	1 / 1301 CIVII VOTO 14
Wire diameter: Non-twisted wire: Automatic brakes:	in yes/no		330 lbs / 150 kg
Non-twisted wire: Automatic brakes:	yes/no		10mm
Automatic brakes:		no	no
	yes/no		
		Yes	Yes
Overload protection:	yes/no	Yes	Yes
Automatic spooling:	yes/no	No	No
A.9.4.4 Utility Winch (i.e. Deck Winch)			
Quantity:	no.	2	2
Make:		Ingersoll-Rand	Ingersoll-Rand
Гуре:		ODR-100-A24	ODR-100-A24
Rated capacity:	lbs	10000 lbs	10000 lbs
Wire diameter:	in	3/4"	3/4"
Automatic brakes:	yes/no	No	No
Overload protection:	yes/no	No	No
Automatic spooling:	yes/no	No	No
Certified for man-riding:	yes/no	No	No
_ocations:	yC3/110	Under cantilever for BOP	Under cantilever for BOP
Quantity:	no.	1 (Man riding winch)	1 (Man riding winch)
Make:		Ingersoll-Rand	Ingersoll-Rand
Гуре:		FA150KGMR/01014	FA150KGMR/01014
Rated capacity:	lbs	330 lbs / 150 kg	330 lbs / 150 kg
Vire diameter:	in	10mm	10mm
Automatic brakes:	yes/no	Yes	Yes
Overload protection:	yes/no	Yes	Yes
		Yes	Yes
Automatic spooling:	yes/no		
Certified for man-riding:	yes/no	yes	yes
_ocations:		Under cantilever portside	Under cantilever portside
Quantity:	no.	1	1
Make:		Ingersoll-Rand	Ingersoll-Rand
Туре:		DDR60A20	DDR60A20
Rated capacity:	st	5000 lbs / 2.5 st	5000 lbs / 2.5 st
Nire diameter:	in	5/8"	5/8"
Automatic brakes:	yes/no	No	No
Overload protection:	yes/no	No	No
Automatic spooling:	yes/no	No	No
Certified for man-riding:	yes/no	No	No
_ocations:	<b>,</b>	Port Forward Bridle	Port Forward Bridle
A.9.4.5 BOP Hoists (see E.10.1)			
A.9.5 Transfer Baskets/Containers			
A.9.5.1 Personnel Transfer Baskets		1 ea. Billy Pugh	1 ea. Billy Pugh
A.9.5.2 Cargo Containers			
Quantity:	no.		None
Make/type:			

Quantity: Make/type:  Quantity: Make/type:  Quantity: Make/type:	no.		No Offered
Quantity: Make/type: Quantity:			
Make/type:  Quantity:			
Quantity:	no		no
	no		
	no.		No
Make/type:			
A.10 HELICOPTER LANDING DECK			
Location (frwd/aft/port/stbd):		FWD	FWD
Dimensions:	ft / ft	60 ft X 60 ft	60 ft X 60 ft
	es/no	Yes	Yes
Deck load capacity: Maximum helicopter weight:	lb/ft2 kips		18.96kips
Designed for helicopter type:	Kips	Bell 212 / Sikorsky S-61N	AW189
Tie down points:	/es/no	Yes 4 nos.	Yes 4 nos.
Covered by foam fire system (see L.3.6):	/es/no	Yes	Yes
A.10.1 Helicopter Refueling System			
System make/type:		No	no
Fuel storage capacity:	gal		
	/es/no		
Fuel transport container, quantity: Volume:	no.		
Fuel transport containers:	gal no.		
Volume:	gal		
Covered by foam fire system (see L.3.6)	/es/no		
A.11 AUXILIARY EQUIPMENT			
A.11.1 Water Distillation			
Quantity:	no.	none	none
Make/type:	.,.		
Capacity (each/total):	al/day		
Quantity:	no.		
Make/type:	al/day		
Capacity (each/total):	al/day		
A.11.2 Boilers			
Quantity:	no.	none	none
Make/type: Capacity (total system):	lbs/hr		
	ID3/III		
Quantity:	no.		
Make/type:	lbs/hr		
Capacity (total system):	109/111		
A 44 2 Air Canditioning			
A.11.3 Air Conditioning			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Make/type:		Carrier	Carrier
Capacity (total system):	tons	40 Tons / R 407 C	40 Tons / R 407 C
Max. temperature rating:	F		
Make/type:		Carrier	Carrier
Capacity (total system):	tons	R 22 / 62 tons	R 22 / 62 tons
Max. temperature rating:	F		
Make/type:			
Capacity (total system):	tons		
Max. temperature rating:	F		
A.11.4 Electric Welding Sets			
Quantity:	no.	2	2
Current capacity:	amp	500 Amps	500 Amps
Make/model:		Miller / SRH 444	Miller / SRH 444
Type (fixed/portable):		Fixed	Fixed
Quantity:	no.	1	1
Current capacity:	amp	400 amps	400 amps
Make/model:		Lincoln / SAE 400	Lincoln / SAE 400
Type (fixed/portable):		Fixed	Fixed
Quantity:	no.		
Current capacity:	amp		
Make/model:	•		
Type (fixed/portable):			
A.11.5 High Pressure Cleaner			
Quantity:	no.	1	1
Make/type:		Myers/ D35-12AVD-2	Myers/ D35-12AVD-2
Electric/pneumatic/diesel:		Electric	Electric
Max delivered pressure:	psi	1200 psi / 35 gpm	1200 psi / 35 gpm
With steam:	yes/no	No	No
Quantity:	no.	1	1
Make/type:		(Client) Steam Cleaner	(Client) Steam Cleaner
B.1 DERRICK AND SUBSTRUCTURE			
B.1.1 Derrick / Mast			
Make/type:		DRECO / 6211-D105 Bolted	DRECO / 6211-D105 Bolted
Rated for wind speed			
With full set back:	knots	100 mph	100 mph
With no set back:		115 mph	115 mph
Height:		160 ft	160 ft
Dimensions of base:		30ft x 30ft	30ft x 30ft
Dimensions of crown:		18' 7" X 13' 10"	18' 7" X 13' 10"
Gross nominal capacity:		1,330 kips	1,330 kips
Static hook load:	•	1,000, kips	1,000, kips
Maximum number of lines:	no.	12	12
Ladders with safety cages and rests:	yes/no	Yes	Yes
Platform for crown sheave access:	yes/no	yes	yes
Counter balance, system for rig tongs and	,	yes	yes
pipe spinning tong:	yes/no		
Lighting system explosion proof:	yes/no	yes	yes

SPE	ECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
B.1.2	Racking Platform			
Make/ty Total co	ype: urrent simultaneous capacity - drill pipe:		Dreco 209 Stand / 5" OD Drill Pipe 8 Stand / 9-1/2" O.D. Drill collars	Dreco 209 Stand / 5" OD Drill Pipe 8 Stand / 9-1/2" O.D. Drill collars
5" DP:f	't	_	19,855 ft	19,855 ft
8" DC: Total		ft	760 ft 20,615 ft	760 ft 20,615 ft
	belly board:	yes/no	20,013 10	20,013 11
B.1.3	Automated Pipe Handling		No	No
Make/ty Descrip				
B.1.4 (	Casing Stabbing Board		Yes	1
Make/ty Adjusta	ype: able from/to height above rotary:	ft/ft	DRECO/ Air Ope 17 ft / 48 ft	DRECO/ Air Ope 17 ft / 48 ft
B.1.5	Substructure			
Make/ty	ype:		Dreco	Dreco
Drill flo	or height (above main deck):		31 ft and 2-3/4"	31 ft and 2-3/4"
Length	:		42.7 ft	42.7 ft
Width:	k capacity:	π kips	48.5 ft 500 kips	48.5 ft 500 kips
	aneous setback + hook load capacity:	kips	1500 kips	1500 kips
Rotary	beam capacity (total):	kips	13,000	
	leight below rotary table beams main deck):	ft		
B.1.6	Weather Proofing			
Rig floo	or windbreaks:	yes/no	Yes	Yes
Derrick	man windbreaks:	yes/no	No	No
Around	process pits:	yes/no	No	No
B.1.7	Derrick TV Camera System			
	a located at:		Monkey Board / BOP Electro-Flow	Monkey Board / BOP Electro-Flow
Make/ty	ype: Pan/Tilt-function:	yes/no	Yes	Yes
<b>_</b> UUIII/ F	r located at:	y = 3/110	Drillers Console	Drillers Console

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
B.1.8 Mechanical Mouse Hole	yes/no	Normal mouse hole.	Normal mouse hole.
B.2 DRAWWORKS AND ASSOCIAT EQUIPMENT	ED		
B.2.1 Drawworks			
Make/type: Motors make/type: Quantity: Rated input power: Drum size (diameter x length): Drum type (grooved/smooth) For drill line size: Brake type (disc/drum) Maximum line pull 12 lines: Maximum line pull 10 lines: Maximum line pull 8 lines: Makeup cathead type: Breakout cathead type: Breakout cathead type: Crown block safety devices: Make/type: Make/type: Independent fresh water cooling system f drawworks and electric brake: Automatic driller: Make/type:	in x in in kips kips kips	Continental Emsco C2-type II EMD D79 DC motor 2 2000 hp 30"dia. x 28" long Lebus (groove) 1-3/8" Drum 1,025 898 746.4 Emsco GB Emsco GBH Yes Koomey 75-00020  Yes No	Continental Emsco C2-type II EMD D79 DC motor 2 2000 hp 30"dia. x 28" long Lebus (groove) 1-3/8" Drum 1,025 898 746.4 Emsco GB Emsco GBH Yes Koomey 75-00020 Yes No
B.2.2 Auxiliary Brake			
Make: Model: Independent back-up system type:  B.2.3 Sand line		Baylor 7040 No	Baylor 7040 No
Make: Length capacity: Line size/type: Breaking strength: Safe working load:	ft st st	Continental Emsco 22,000 ft. 9/16"	Continental Emsco 22,000 ft. 9/16"
B.2.4 Slick line Unit		1	1
Make/model: Wire length (nominal): Wire size: Breaking strength: Safe working load: Depth counter: Pull indicator:  B.3 DERRICK HOISTING EQUIPME	ft in lbs lbs yes/no lbs.	Mathey / 21 ILM /10 hp motor 15,000 ft 0.092" 9,000 lbs min. 865 lbs yes	Mathey / 21 ILM /10 hp motor 15,000 ft 0.092" 9,000 lbs min. 865 lbs yes
B.3.1 Crown Block			
Make/type:		DRECO / 6170-D247	DRECO / 6170-D247

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Rated capacity:	st	583 st	583 st
No. of sheaves:	no.	6+1	6+1
Sheave diameter:	in	52"	52"
Sheave grooved for line size:	in	1-3/8"	1-3/8"
B.3.2 Traveling Block			
Make/type:		DRECO / RA-52-6	DRECO / RA-52-6
Rated capacity:	st	500 st	500 st
No. of sheaves:	no.	6	6
Sheave diameter:	in	52"	52"
Sheave grooved for line size:	in	1-3/8"	1-3/8"
B.3.3 Hook			
Make/type:		BJ/clevis	BJ/clevis
Rated capacity:	st	500T	500T
Complete with spring assembly/hook			
Locking device:	yes/no	No	No
B.3.4 Swivel			
Make/type:		National P 500	National P 500
Rated capacity;	st	500	500
Test/working pressure:	psi/psi		5000psi
Gooseneck and wash pipe minimum ID:	in	3"	3"
Left hand pin connection type:			
Access fitting for wireline entry on			
Top gooseneck:	yes/no	yes	yes
B.3.5 Drilling Line			
Diameter:	in	1-3/8"	1-3/8"
Construction:	111	BRIDON	BRIDON
Length (original):	ft	6X19 EIPS IWRC	6X19 EIPS IWRC
Drilling line reel:	IL	OX 19 Ell 3 IWKG	OX 19 Ell S IWIKO
Drum cover:	yes/no	Yes	Yes
Drilling line drum power driven:	yes/no	No	No
Spare drilling line:	yes/no	Yes	Yes
Location (rig, shore, etc.)	y C3/110	Rig	Rig
Roller guides:	yes/no	Yes	Yes
B.3.6 Dead Line Anchor			
Make/type:		National EB	National EB
Weight sensor:	yes/no	Yes	Yes
Deadline dampener:	yes/no	No	No
B.3.7 Block Guidance System			
Make			
B.4 ROTATING SYSTEM			
B.4.1 Rotating Table			
Make/type: Maximum opening:	in	Continental Emsco/ T3750 37 ½"	Continental Emsco/ T3750 37 ½"

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Rated capacity:	st	650 T	650 T
Two speed gearbox:	yes/no	Yes	Yes
Emergency chain drive:	yes/no	No	No
Driven by an independent electric motor:	yes/no	Yes	Yes
Electric motor make/type:	,	EMD D79	EMD D79
Output power:	hp	750 hp	750 hp
Maximum continuous torque:	ft/lbs		
Drip pan/mud collection system:	yes/no	yes	yes
B.4.2 Master Bushings			
Make/type:		Varco/ MPCH	Varco/ MPCH
Insert bowls:		API # 1,2,3	API # 1,2,3
B.4.3 Kelly Bushing			
Make/type:		Varco BJ 27 HDP	Varco BJ 27 HDP
Lock down assembly:	yes/no	No	No
B.4.4 Top Drive		yes	yes
Make:		Varco TDS3	Varco TDS3
Type (electric/hydraulic):		Electric	Electric
Rated capacity:	st	770,000 lbs/ 385 st	770,000 lbs/ 385 st
Test/working pressure:	psi/psi	5000 psi	5000 psi
Output power:	hp	1100 HP DC Motor EMD M89	1100 HP DC Motor EMD M89
Maximum continuous torque:	ft-lbs	31,000 ft/lbs	31,000 ft/lbs
Two-speed gear box	yes/no	No	No
Maximum rotary speed:	rpm	209 rpm	209 rpm
Remote operated kelly cock:	yes/no	Yes	Yes
Cooling system type:	•	Local Blower (15 HP motor)	Local Blower (15 HP motor)
Upper inside BOP (see also D.1.15)		Yes	Yes
Quantity:	no.	1	1
Make/type:		Hydril 5-1/4 dual crank	Hydril 5-1/4 dual crank
Working pressure:	psi	10,000 psi	10,000 psi
Max. OD body:	in	7.70"	7.70"
Max. ID body:	in	3-1/16"	3-1/16"
Connection type (box):		6 5/8 Reg RH	6 5/8 Reg RH
Connection type (pin):		6 5/8	6 5/8
B.4.4.1 Top Drive Makeup / Breakout System		Yes	Yes
Make/type:		Varco/ Pipe Handler	Varco/ Pipe Handler
Model:		PH 60	PH 60
Max. makeup torque:	ft/lbs	85,000	85,000
Max. break out torque:	ft/lbs	85,000	85,000
Raised backup system:	yes/no	No	No
Make/type:		Na	Na
Working height (range):	ft/ft	Na	Na
C. POWER SUPPLY SYSTEMS			
C.1 RIG POWER PLANT			
C.1.1 Diesel Engines			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specification Offered
Make/type:		Caterpillar D399	Caterpillar D399
Maximum continuous power:	hp	1214 hp	1214 hp
At rotation speed of:	rpm	1200 rpm	1200 rpm
Equipped with spark arrestors:	yes/no	yes	yes
Mufflers installed:			-
Muπiers installed:	yes/no	no	no
Quantity:	no.		
Make/type:			
Maximum continuous power:	hp		
At rotation speed of:	rpm		
Equipped with spark arrestors:	yes/no		
Mufflers installed:	yes/no		
wallers installed.	yes/110		
Quantity:	no.		
Make/type:			
Maximum continuous power:	hp		
At rotation speed of:	rpm		
Equipped with spark arrestors:	yes/no		
Equipped with spark arrestors. Mufflers installed:			
	yes/no		
Total fuel consumption, drilling (avg):	bbl/day		
C.1.2 DC – Generator			
Quantity:	no.	No	NA
Make/type:			
Continuous power:	kw		
At rotation speed of:			
	rpm		
Output volts:	volts		
Quantity:	no.	No	NA
Make/type:	1101		
Continuous power:	kw		
At retation and of			
At rotation speed of:	rpm		
Output volts:	volts		
C.1.3 AC – Generator			
Quantity:	no.	4 each	4 each
Make/type:		Kato / 20971 model 1050-	Kato / 20971 model 1050-
<b>31</b>		685351121	685351121
Continuous power:	kw	1050 kw	1050 kw
At rotation speed of:		1200 rpm	1200 rpm
	rpm	•	
Output volts:	volts	600 volts	600 volts
Quantity:	no.		
Make/type:			
Continuous power:	kw		
At rotation speed of:	rpm		
Output volts:	volts		
C.1.4 SCR System			
Number of SCR:	no.	4 ea	4 ea
Make/type:		IPS / 2200 M	IPS / 2200 M
• •	lan	6000	6000
Maximum continuous power (total): Output volts:	kw		
Unitorit volte:	volts	750VDC Max	750VDC Max

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
C.1.5 Transformer System			
Quantity: Make/type:	no.	2 ea Shikoku	2 ea Shikoku
Continuous power (each): Output volts: Frequency:	kva volts hz	900 600/480 60	900 600/480 60
Quantity: Make/type: Continuous power (each): Output volts: Frequency:	no. kva volts hz	2 ea Shikoku 150 480 // 208/120 60	2 ea Shikoku 150 480 // 208/120 60
Quantity: Make/type: Continuous power (each): Output volts: Frequency:	no. kva volts hz	2 ea Square D 45 480 // 208/120 60	2 ea Square D 45 480 // 208/120 60
C.1.6 Emergency Shutdown Emergency shutdown switches for the complete power system (AC & DC), located at the Following points:		Drillers Shelter Rig Manager Office	Drillers Shelter Rig Manager Office
C.1.7 Compressed Air Systems			
Air compressors - Cold Start: Quantity: Make: Model: Rated capacity: Working pressure: Prime mover (electric/diesel): Continuous power:	no. ft3/min psi hp	1 ea Gardner Denver ADL100 89.6 cfm 120 psi Diesel Engine 30 hp	1 ea Gardner Denver ADL100 89.6 cfm 120 psi Diesel Engine 30 hp
Air compressors - Medium Pressure (rig a Quantity:     Make:     Model:     Rated capacity:     Working pressure:     Prime mover (electric/diesel):     Continuous power:	air): no. ft3/min psi hp	2 each Quincy QSi-500i 500 cfm 120 psi Electric motor 125 hp	2 each Quincy QSi-500i 500 cfm 120 psi Electric motor 125 hp
Quantity: Make: Model: Rated capacity: Working pressure: Prime mover (electric/diesel): Continuous power:	no. ft3/min psi hp		

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Air dryers:			23.0
Quantity:	no.	1	1
Make:		Sullair SRD1000AC	Quincy 1220 QDTH
Rated capacity:	ft3/min	1000 cfm	1000 cfm
Air compressors - Low Pressure (bulk air):		NA	NA
Quantity:	no.		
Make:			
Model:			
Rated capacity:	ft3/min		
Working pressure:	psi		
Prime mover (electric/diesel):	·		
Continuous power:	hp		
Air dryers:		Na	NA
Quantity:	no.		
Make:	110.		
Rated capacity:	ft3/min		
	110/111111		
C.1.8 Air Receivers			
Volume (total):	ft3	214 cu.ft.	214 cu.ft.
Pressure:	psi	120	120
Location:	ры	Engine room	Engine room
Location.		Engine room	Engine room
Volume (total):	ft3	214 cu. Ft.	214 cu. Ft.
Pressure:	psi	120	120
Location:	•	Under Cantilever and Rig	Under Cantilever and Rig floo
		floor	
Volume (total):	ft3		
Pressure:	psi		
Location:	ры		
Location.			
C.2 EMERGENCY GENERATOR			
C.2.1 Engine			
Quantity:	no.	1 ea	1 ea
Make/type:		Caterpillar D399	Caterpillar D399
Maximum output:	hp	1214 hp	1214 hp
At rotation speed:	rpm	1200 rpm	1200 rpm
Automatic starting:	yes/no	Yes	Yes
Starting methods (air, hydraulic,, battery):		Battery	Battery
Max. angle of operation:	degrees		
C.2.2 AC - Generator			
Quantity:	no.	1 ea	1 ea
Make/type:	110.	Kato / 20971	Kato / 20971
Maximum output:	amne	1445 amps	1445 amps
At rotation speed:	amps	1200 rpm	1200 rpm
Output volts:	rpm volts	600 volts	600 volts
Capable of back-feeding power to	VUILS	Yes	Yes
main bus:	yes/no	100	163
	у сэлто		
D. DRILLSTRING EQUIPMENT			
		1	1

SPECIFICATION / DESCRIPTION	ONS	Requirement	Tenderer Specifications Offered
D.1.1 Kelly's			
Quantity:	no.	1 ea	1 ea
Nominal size OD:	in	5-1/4"	5-1/4"
Shape type (hexagonal, square, tria	angular):	Hex	Hex
Total / working length:	ft / ft	40'	40'
Connection type:		7-3/4"OD – 6 5/8"REG LH LOWER PIN CONNECTION 4 ½ IF	7-3/4"OD – 6 5/8"REG LH LOWER PIN CONNECTION 4 ½ IF
Quantity:	no.		
Nominal size OD:	in		
Shape type (hexagonal, square, tria			
Total / working length: Connection type:	ft / ft		
D.1.2 Kelly/TDS Saver Subs			
Quantity:	no.	3 ea	3 ea
Nominal kelly size:	in	5"	5"
Connection type: Protector:		NC-50	NC-50
Quantity:	no.	1 ea	1 ea
Nominal kelly size:	in	3-1/2"	3-1/2"
Connection type: Protector:		NC-38	NC-38
Quantity:	no.		
Nominal kelly size:	in		
Connection type:			
Protector:  D.1.3 Drill Pipe			
·			
Drill pipe OD:	in	5"	5"
Grade:	ft	G-105	G-105 20900 ft / qty 485 pcs
Total length: Range:	IL	15000 ft/ qty 485 pcs Range 2	Range 2
Weight:	lbs/ft	19.5 lb/ft	19.5 lb/ft
Internally plastic coated:	yes/no	yes	yes
Tool joint OD/ID:	in/in	6-1/2" - 3-1/4"	6-1/2" - 3-1/4"
Tool joint pin length (original):	in	4.5	40
Tapered shoulder tool joints (box/pins):	degree/degree	18	18
Connection type:	degree/degree	4 1/2IF	4 1/2IF
Hard facing:		Smooth X-Hard banding.	Smooth X-Hard banding.
API classification:		API 5D-7	API 5D-7
Thread protectors:	yes/no	yes	yes
Drill pipe OD: Grade:	in		
Total length:	ft		
Range:	ic.		
Weight:	lbs/ft		
Internally plastic coated:	yes/no		
Tool joint OD/ID:	in/in		
Tool joint pin length (original):	in		

SPECIFICATION / DESCRIPT	IONS	Requirement	Tenderer Specifications Offered
Tapered shoulder tool joints			
(box/pins):	degree/degree		
Connection type:			
Type of hardfacing:			
API classification:			
Thread protectors:	yes/no		
Daill a in a OD.	:		
Drill pipe OD:	in		
Grade:	ft		
Total length:	IL		
Range:	II /£4		
Weight:	lbs/ft		
Internally plastic coated:	yes/no		
Tool joint OD/ID:	in/in		
Tool joint pin length (original):	in		
Tapered shoulder tool joints	dograa/da=====		
(box/pins):	degree/degree		
Connection type:			
Hardfacing:			
API classification:			
Thread protectors:	yes/no		
D.1.4 Drill Pipe Pup Joints			
Tool joint OD/ID:	in/in	6-5/8 in X 3 1/4 in	6-5/8 in X 3 1/4 in
Grade:		G105	G-105
Length:	ft	5	5 ft
Quantity:	no.	1	2 ea
Length:	ft	10	10 ft
Quantity:	no.	1	2 ea
Length:	ft	15	15 ft
Quantity:	no.	1	2 ea
Length:	ft		
Quantity:	no.		
Weight:	lbs/ft	19.5	19.5
Connection type:		4-1/2	4 ½ IF
Internally plastic coated:	yes/no	Yes	Yes
API Classification:		Premium	Premium
Thread protectors:	yes/no	Yes	yes
Tool is int OD/ID:	in/in	4 2/4 / 2 5/9	43/ / 25/9
Tool joint OD/ID: Grade:	in/in	4-3/4 / 2-5/8 E-75	4 <sup>3</sup> ⁄ <sub>4</sub> / 2 5/8 E-75
	ft	5	5
Length:			1
Quantity:	no. ft	1 10	10
Length:			
Quantity: Length:	no. ft	1   15	1
•		15	
Quantity: Weight:	no. Ibs/ft	13.3	13.3
Connection type:	105/11	3-1/2" IF	3 ½ IF
Internally plastic coated:	yes/no	Yes	J /2 II
API Classification:	yes/110	163	
Thread protectors:	yes/no	Yes	yes
Tool joint OD/ID:	in/in		
Grade:			
Length:	ft		
Quantity:	no.		
Length:	ft		

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Quantity:	no.		
Length:	ft		
Quantity:	no.		
Weight:	lbs/ft		
Connection type:	103/10		
	voolno		
Internally plastic coated:	yes/no		
Thread protectors:	yes/no		
D.1.5 Drill Pipe Casing Protectors			
Initial stock:	no.		
Make/type:	_		
OD:	in		
Installation tools (manual/hydraulic/none):			
Initial Stock:	no.		
Make/type:			
OD:	in		
Installation tools (manual/hydraulic/none):			
D.1.6 Heavy Weight Drill Pipe			
Quantity:	no.	15	31
Nominal size OD:	in	5	5"
Weight:	lbs/ft	50 lbs/ft	50 lbs/ft
Range:		2	2
Tool joint OD / ID:	in/in	6-5/8 in / 3-1/16 in	6-1/2" od / 3" id
Type of hardfacing:	,		Fine particles
Internally plastic coated:	yes/no	Yes	Yes
Connection type:	-	4-1/2 IF	4-1/2 IF
Thread protectors:	yes/no	Yes	yes
Quantity:	no.		
Nominal size OD:	in		
Weight:	lbs/ft		
Range:	150/10		
Tool joint OD / ID:	in/in		
Type of hardfacing:	11 1/ 11 1		
	veslad		
Internally plastic coated:	yes/no		
Connection type: Thread protectors:	yes/no		
D.1.7 Drill Collars	<b>,</b>		
		4	
Quantity:	no.	4	4
OD body:	in	9-1/2"	9 ½"
ID body:	in		3-1/4
Nominal length of each joint:	ft	Range 2	Range 2
Drill collar body (slick/spiral):		Spiral	Spiral
Recess for "zip" elevator:	yes/no	Yes	Yes
Recess for slips:	yes/no	Yes	Yes
Stress relief pin groove:	yes/no	Yes	Yes
Boreback on box:	yes/no	Yes	Yes
Connection type:	y 03/110	7-5/8	7-5/8 Reg
Quantity: OD body:	no. in	24 8"	24 ea 8 ½"
	in in		3"
ID body:	in	2-13/16	၂ ပ

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Nominal length of each joint:	ft	Range 2	Range 2
Drill collar body (slick/spiral):		Spiral	Spiral
Recess for "zip" elevator:	yes/no	Yes	yes
Recess for slips:	yes/no	Yes	yes
Stress relief pin groove:	yes/no	Yes	yes
Boreback on box:	yes/no	Yes	yes
Connection type:	ye3/110	6-5/8" Reg	6 5/8 Reg
Quantity:	no.	30	30
OD body:	in	6-1/2"	6 ½"
ID body:	in	2-13/16	3
Nominal length of each joint:	ft	Range 2	Range 2
Drill collar body (slick/spiral):		Spiral	spiral
Recess for "zip" elevator:	yes/no	Yes	Yes
Recess for slips:	yes/no	Yes	Yes
Stress relief pin groove:	yes/no	Yes	Yes
Boreback on box:	yes/no	Yes	Yes
Connection type:	,	4"IF	4 ½ IF
3,400			1.72.
Quantity:	no.		
OD body:	in		
ID body:	in		
Nominal length of each joint:	ft		
Drill collar body (slick/spiral):			
Recess for "zip" elevator:	yes/no		
Recess for slips:	yes/no		
Stress relief pin groove:	yes/no		
Boreback on box:	yes/no		
Connection type:	,		
D1.8 Short Drill Collars			
Ouantitus	20		
Quantity:	no.		
OD body:	in		
ID body:	in		
Nominal length of each joint:	ft		
Stress relief pin groove:	yes/no		
Boreback on box:	yes/no		
Connection type:			
Quantity:	no.		
OD body:	in		
ID body:	in		
	ft		
Nominal length of each joint:			
Stress relief pin groove:	yes/no		
Boreback on box:	yes/no		
Connection type:			
Quantity:	no.		
OD body:	in		
ID body:	in		
Nominal length of each joint:	ft		
Stress relief pin groove:	yes/no		
Boreback on box:	yes/no yes/no		
Connection type:	yes/110		
7,000			
Quantity:	no.		
OD body:	in		
ID body:	in		

Nominal length of each joint:  Stress relief pin groove: yes/no Boreback on box: yes/no Connection type:  D.1.9 Non-Magnetic Drill Collars  Quantity: no. OD body: in ID body:	SPECIFICATION / DESCRIPTION	ONS	Requirement	Tenderer Specifications Offered
Boreback on box: yes/no Connection type:  D.1.9 Non-Magnetic Drill Collars  Quantity: no. OD body: in ID body: in Nominal length of each joint: ft Diffil collar body (elick/spiral): Recess for "zip" elevator: yes/no Roccass for slips: yes/no Spress relief pin groove: yes/no Spress relief pin groove: yes/no Boreback on box: yes/no Connection type:  D.1.10 Core Barrels  Quantity: no. Make: Guantity: no. M	Nominal length of each joint:	ft		
Connection type:  D.1.9 Non-Magnetic Drill Collars  Quantity: no. no. OD body: in no. Do body:	Stress relief pin groove:	yes/no		
D.1.9 Non-Magnetic Drill Collars  Quantity: no. OD body: in ID body: ID Bod	Boreback on box:	yes/no		
Quantity: no. OD body: in ID body: yes/no Recess for Zipp elevator: yes/no Recess for Zipp elevator: yes/no Boreback on box: yes/no Stress relief pin groove: yes/no Boreback on box: yes/no Connection type:  D.1.10 Core Barrels  Quantity: no. Make: no. Do body or fishing neck: no. no. Make: no. Do body or fishing neck: no. no. Make: no. Do body or fishing neck: no. no. Make: no. Do body or fishing neck: no. no. Make: no. Do body or fishing neck: no. no. Make: no. Do body or fishing neck: no. no. Make: no. No. No. Make: no. N	Connection type:			
OD body: In Dody: In Dody: In Nominal length of each joint: Recess for "zip" elevator: Recess for "zip" elevator: Recess for "zip" elevator: Recess for slips: Recess for slip	D.1.9 Non-Magnetic Drill Collar	's		
OD body: In Dody: In Dody: In Nominal length of each joint: Recess for "zip" elevator: Recess for "zip" elevator: Recess for "zip" elevator: Recess for slips: Recess for slip	Quantity:	no.		No
ID body:   in   Nominal length of each joint:   ft   Drill collar body (slick/spiral):   Recess for "zip" elevator:   yes/no   Recess for "zip" elevator:   yes/no   Stress relief pin groove:   yes/no   Stress relief pin groove:   yes/no   Soreback on box:   Yes/no   Soreback on the pin yes/no   Soreback on t		_		
Nominal length of each joint: ft Drill collar body (slick/spiral): Recess for "zip" elevator: yes/no Recess for slips: yes/no Stress reliaf pin groove: yes/no Boreback on box: yes/no Connection type:  D.1.10 Core Barrels  Quantity: no. Make: Nodel: Size OD x ID: in x in Length: ft Top connection type: Spiral stabilizing ribs: yes/no Subs and handling tools: yes/no D.1.11 Stabilizers  Hole size: in Quantity: no. Make: OD blades: (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: in OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: in OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: in OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: in OD blades: in Type blades (straight/spiral/welded/integral/sleeve): in Connection type: in OD blades: in Datades: in Datad		in		
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D.1.11 Stabilizers  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no Hole size: in ID body: in Connection type: Float valve receptacle: yes/no Hole size: in ID body: in Connection type: Float valve receptacle: yes/no Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): in Type blades (straight/spiral/welded/integral/sleeve):				
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Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):	D.1.11 Stabilizers			
Make: OD blades: In Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: In ID body: Connection type: Float valve receptacle: Ves/no Hole size: In Quantity: No. Make: OD blades: In Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: In ID body: In Connection type: Float valve receptacle: Ves/no  Hole size: In Quantity: No. Wake: OD blades: In Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: In ID body: In Connection type: Float valve receptacle: Ves/no  Hole size: In Quantity: No. Make: OD blades: In Type blades (straight/spiral/welded/integral/sleeve):	Hole size:	in		
OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):	Quantity:	no.		No
Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: ID body: ID blades: ID blades: ID blades (straight/spiral/welded/integral/sleeve): ID body: ID b	Make:			
Type of blade hardfacing: OD body or fishing neck: ID body: In Connection type: Float valve receptacle:  Hole size: Quantity: No. Make: OD blades: Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: ID body: ID body: ID body: IN Connection type: Float valve receptacle:  Hole size: Quantity: No. Make: OD blades: In Quantity: No. Make: OD blades: In Quantity: No. Make: OD blades: In Type blades (straight/spiral/welded/integral/sleeve):	OD blades:	in		
OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):		/integral/sleeve):		
ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):		in		
Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):				
Float valve receptacle:  yes/no  Hole size:  Quantity:  no.  Make:  OD blades:  Type blades (straight/spiral/welded/integral/sleeve):  Type of blade hardfacing:  OD body or fishing neck:  ID body:  Connection type:  Float valve receptacle:  yes/no  Hole size:  Quantity:  no.  Make:  OD blades:  Type blades (straight/spiral/welded/integral/sleeve):		""		
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Quantity: no.  Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):	τισαί ναινό τουορίασιο.	y03/110		
Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):	Hole size:	in		
Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):	Quantity:	no.		
OD blades: in Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: in ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):				
Type blades (straight/spiral/welded/integral/sleeve): Type of blade hardfacing: OD body or fishing neck: ID body: ID body: In Connection type: Float valve receptacle:  Hole size: Quantity: No. Make: OD blades: In Type blades (straight/spiral/welded/integral/sleeve):		in		
Type of blade hardfacing:  OD body or fishing neck:  ID body:  Connection type:  Float valve receptacle:  Yes/no  Hole size:  Quantity:  no.  Make:  OD blades:  Type blades (straight/spiral/welded/integral/sleeve):				
OD body or fishing neck: ID body: ID body: Connection type: Float valve receptacle:  Hole size: Quantity: no. Make: OD blades: In Type blades (straight/spiral/welded/integral/sleeve):		,		
ID body: in Connection type: Float valve receptacle: yes/no  Hole size: in Quantity: no. Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):		in		
Connection type: Float valve receptacle:  Hole size: Quantity: no. Make: OD blades: Type blades (straight/spiral/welded/integral/sleeve):				
Float valve receptacle:  yes/no  Hole size:  Quantity:  no.  Make:  OD blades:  Type blades (straight/spiral/welded/integral/sleeve):				
Quantity: no.  Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):		yes/no		
Quantity: no.  Make: OD blades: in Type blades (straight/spiral/welded/integral/sleeve):	Hole size:	in		
Make: OD blades: Type blades (straight/spiral/welded/integral/sleeve):				
OD blades: in Type blades (straight/spiral/welded/integral/sleeve):		1.0.		
Type blades (straight/spiral/welded/integral/sleeve):		in		
T NAME OF THE PART	Type of blade hardfacing:			

SPECIFICATION / DESCRIPTION	NS	Requirement	Tenderer Specifications Offered
OD body or fishing neck:	in		
ID body:	in		
Connection type:			
Float valve receptacle:	yes/no		
Hole size:	in		
Quantity:	no.		
Make:			
OD blades:	in		
Type blades (straight/spiral/welded/ir Type of blade hardfacing:	ntegral/sleeve):		
OD body or fishing neck:	in		
ID body:	in		
Connection type:			
Float valve receptacle:	yes/no		
D.1.12 Roller Reamers			
Hole size:	in		
Quantity:	no.		No
Make:			
OD body:	in		
ID body:	in		
OD fishing neck:	in		
Cutters supplied sets:	no.		
Cutters, type:			
Connection, type:			
Hole size:	in		
Quantity:	no.		
Make:			
OD body:	in		
ID body:	in		
OD fishing neck:	in		
Cutters, supplied sets:	no.		
Cutters, type:			
Connection, type:			
Hole size:	in		
Quantity:	no.		
Make:			
OD body:	in		
ID body:	in		
OD fishing neck:	in		
Cutters, supplied sets:	no.		
Cutters, type:			
Connection, type:			
D.1.13 Shock Absorbers			
Quantity:	no.		No
Make/type:			
OD body:	in		
ID body:	in		
OD fishing neck:	in		
Connection type:			
Quantity:	no.		
Make/type:			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
OD body:	in		
ID body:	in		
OD fishing neck:	in		
Connection type:			
D.1.14 Drilling Jars			
-			
Quantity:	no.		No
Make:			
Type (mechanical/hydraulic; up/down):			
OD body:	in		
Min. ID body:	in		
OD fishing neck:	in		
Stroke:	in		
Connection type:			
Quantity:	no.		
Make:			
Type (mechanical/hydraulic; up/down):			
OD body:	in		
Min. ID body:	in		
OD fishing neck:	in		
Stroke:			
	in		
Connection type:			
Quantity:	no.		
Make:			
Type (mechanical/hydraulic; up/down):			
OD body:	in		
Min. ID body:	in		
OD fishing neck:	in :		
Stroke: Connection type:	in		
D.1.15 Inside BOP Valve (see also B.4.4)			
Quantity:	no	1.00	1.00
Make:	no.	1 ea Vetco Gray	1 ea Vetco Gray
OD:	in	6 3/8"	6 3/8"
Min. ID:	in	2- 3/8"	2- 3/8"
Connection type:		4 ½ IF	4 ½ IF
Working pressure:	psi	10,000 psi	10,000 psi
vvolking pressure.	ры	10,000 psi	10,000 psi
Quantity:	no.	1 ea	1 ea
Make:		Vetco Gray	Vetco Gray
OD:	in	4 3/4"	4 3/4"
Min. ID:	in	1 5/8"	1 5/8"
Connection type:	11.1	3 ½ IF	3 ½ IF
Working pressure:	psi	10,000 psi	10,000 psi
D.1.16 Fast Shut-Off Coupling			
Make/type:			
	no		
Quantity:	no.		
Size tool joint to fit:			
Make/type:			
Quantity:	no.		
Size tool joint to fit:			

Quantity:  Make/type: Bottom connection type: Top connection type:  Wireline stripper: Working pressure:  Quantity: Make/type: Bottom connection type:  yes/no Working pressure:  D.1.18 Kelly Cocks  D.1.18 Kelly Cocks  D.22ea Wesco / H2S 4 ½ IF for 5 Dp 2" 1502 Male hammer union swedge  Wesco / H2S 4 ½ IF for 5 Dp 2" 1502 Male hammer union swedge  Wesco / H2S 4 ½ IF for 5 Dp 2" 1502 Male hammer union swedge  No  Yes/no yes/no psi  D.1.18 Kelly Cocks	SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Maker/type:         Wesco / H2S         Wesco / H2S         H2S         4 ½ IF for 5 Dp         Wesco / H2S         H2S </th <th>D.1.17 Circulation Head</th> <th></th> <th></th> <th></th>	D.1.17 Circulation Head			
Quantity:	Quantity: Make/type: Bottom connection type: Top connection type:	no.	Wesco / H2S 4 ½ IF for 5 Dp 2" 1502 Male hammer union	Wesco / H2S 4 ½ IF for 5 Dp 2" 1502 Male hammer union
Make/fype:         Battom connection type:           Top connection type:         Wireline stripper:         yes/no           Working pressure:         psi           Upper:         Quantity:         no.           Make/fype:         psi         10,000 psi           Max. OD body:         in         7,700"           Min. ID body:         in         3 1/16"         3 1/16"           Connection type:         psi         6 5/8 Reg         6 5/8 Reg           Quantity:         no.         Akae/fype:         4 ydril / L-I BOP         4 ydril / L-I BOP           Quantity:         no.         Akae/fype:         4 ydril / L-I BOP         4 ydril / L-I BOP           Max. OD body:         in         5 /8 Reg         6 5/8 Reg           Lower:         2 ea         4 ydril / L-I BOP         4 ydril / L-I BOP           Make/fype:         Hydril / L-I BOP         4 ydril / L-I BOP         4 ydril / L-I BOP           Max. OD body:         in         3 -1/16"         3 -1/16"         3 -1/16"           Min. ID body:         in         3 -1/16"         3 -1/16"         6 5/8 Reg           Quantity:         no.         1 ea         4 ydril / L-I BOP         4 ydril / L-I BOP           Make/fype:	Wireline stripper: Working pressure:	•	No	
Wireline stripper:         yes/no psi           D.1.18 Kelly Cocks           Upper:         Quantity:         no.         1 ea Hydril / U-1 BOP dual crank 10,000 psi 10,000 psi 7. 700" 7. 700" 7. 700" 3 1/16" 3 1/16" 6 5/8 Reg         2 ea Hydril / U-1 BOP dual crank 10,000 psi 7. 700" 7.	Quantity: Make/type: Bottom connection type:	no.		
Upper:	Wireline stripper: Working pressure:	•		
Quantity:   No.   1 ea	D.1.18 Kelly Cocks			
Quantity:     Make/type:     Working pressure:     Max. OD body:     Min. ID body:     Connection type:     Used as full open safety valve:  Quantity:     Max. OD body:     in     Connection type:     Used as full open safety valve:  Quantity:     Make/type:     Make/type:     Max. OD body:     Min. ID body:     Connection type:     Used as full open safety valve:  Quantity:     Make/type:     Make/type:     Max. OD body:     Min. ID body:     Connection type:     Used as full open safety valve:     Ves  2 ea     Hydril / L-I BOP     10,000 psi     7-5/8"     3-1/16"     6 5/8 Reg     Yes  1 ea     Hydril / L-I BOP     Hydril / L-I BOP     Hydril / L-I BOP     Hydril / L-I BOP     10,000 psi     5"     5"     5"     5"     5"     Connection type:     Used as full open safety valve:     yes/no  2 ea     Hydril / L-I BOP     Hydril / L-I B	Make/type: Working pressure: Max. OD body: Min. ID body: Connection type:  Quantity: Make/type: Working pressure: Max. OD body: Min. ID body: Connection type:	psi in in no. psi in	Hydril / U-I BOP dual crank 10,000 psi 7. 700" 3 1/16"	Hydril / U-I BOP dual crank 10,000 psi 7. 700" 3 1/16"
	Quantity: Make/type: Working pressure: Max. OD body: Min. ID body: Connection type: Used as full open safety valve:  Quantity: Make/type: Working pressure: Max. OD body: Min. ID body: Connection type:	psi in in yes/no no. psi in in	Hydril / L-I BOP 10,000 psi 7-5/8" 3-1/16" 6 5/8 Reg Yes 1 ea Hydril / L-I BOP 10,000 psi 5" 2-1/16" 6-5/8 Reg	Hydril / L-I BOP 10,000 psi 7-5/8" 3-1/16" 6 5/8 Reg Yes 1 ea Hydril / L-I BOP 10,000 psi 5" 2-1/16" 6-5/8 Reg
D.1.19 Circulation Sups	,	yes/no		Yes
Quantity: no.	Quantity:	no	INO	

SPECIFICATION / DESCRIPTIONS	<b>3</b>	Requirement	Tenderer Specifications Offered
Make/type:			
OD body:	in		
Ball size:	in		
Dressing kits:	no.		
Connection type:	110.		
Connection type.			
Quantity:	no.		
	110.		
Make/type:	:. <u>.</u>		
OD body:	in		
Ball size:	in		
Dressing kits:	no.		
Connection type:			
D.1.20 Cup Type Testers		No	
Quantity:	no.	1 ea	1 ea
Make:		CIW Type F	CIW Type F
Size:	in	13-3/8"	13-3/8"
test cup for casing weight:	lb/ft	68 to 72	68 to 72
test cup for casing weight:	lb/ft		
test cup for casing weight:	lb/ft		
Connection type:	,		
21			
Quantity:	no.	1 ea	1 ea
Make:		CIW type F	CIW type F
Size:	in	9-5/8"	9-5/8"
test cup for casing weight:	lb/ft	47 to 53	47 to 53
test cup for casing weight:	lb/ft	47 10 33	47 10 33
test cup for casing weight:	lb/ft		
Connection type:			
Quantity:	no		
Quantity:	no.		
Make:	•		
Size:	in		
test cup for casing weight:	lb/ft		
test cup for casing weight:	lb/ft		
test cup for casing weight:	lb/ft		
Connection type:			
D.1.21 Plug Type Testers			
Quantity	<b>n</b> o		No
Quantity:	no.		No
Make:	• .		
Size test plugs:	in		
Connection type:			
Quantity	20		
Quantity:	no.		
Make:	• .		
Size test plugs:	in		
Connection type:			
Quantitus			
Quantity:	no.		
Make:	_		
Size test plugs:	in		
Connection type:			
D.1.22 Drop-In Valves			
Quantity	. <del>.</del> -	1.00	1.00
Quantity:	no.	1 ea	1 ea

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
For nom. OD drillpipe:	in	5"	5"
Make/type:		Hydril	Hydril
Max. OD of dart.:	in	2 3/4"	2 3/4"
Quantity:	no.	1 ea	1 ea
For nom. OD drillpipe:	in	3 ½"	3 ½"
Make/type:		Hydril	Hydril
Max. OD of dart.:	in	3/4"	3/4"
Quantity:	no.		
For nom. OD drillpipe:	in		
Make/type:			
Max. OD of dart.:	in		
D.1.23 Near Bit - Subs (Box-Box)			
Quantity:	no.	1 ea	1 ea
OD size:	in		
ID size:	in		
Top connection type:		7 5/8 Reg box	7 5/8 Reg box
Bottom connection type:		7 5/8 Reg box	7 5/8 Reg box
Bored for float valve:	yes/no	yes	yes
Float size:	in	,	,
Quantity:	no.	2 ea	2 ea
OD size:	in		
ID size:	in		
Top connection:		7 5/8 Reg box	7 5/8 Reg box
Bottom connection:		6 5/8 Reg box	6 5/8 Reg box
Bored for float valve:	yes/no	yes	yes
Float size:	in		
Quantity:	no.	2 ea	2 ea
OD size:	in		
ID size:	in		
Top connection:		6 5/8 Reg box	6 5/8 Reg box
Bottom connection:		6 5/8 Reg box	6 5/8 Reg box
Bored for float valve:	yes/no	yes	yes
Float size:	in		
Quantity:	no.	2 ea	2 ea
OD size:	in		
ID size:	in		
Top connection:		4 1/2 Reg box	4 ½ Reg box
Bottom connection:		4 1/2 Reg box	4 1/2 Reg box
Bored for float valve:	yes/no	yes	yes
Float size:	in		
Quantity:	no.		1 ea
OD size:	in		6 ½"
ID size:	in		2 13/16"
Top connection:			4 ½ IF box
Bottom connection:			4 ½ Reg box
Bored for float valve:	yes/no		yes
Float size:	in		3 7/16"
Quantity:	no.		1 ea
OD size:	in		6 11/16"
ID size:	in		2 1/4"

SPECIFICATION / DESCRIPTIO	NS	Requirement	Tenderer Specifications Offered
Top connection: Bottom connection: Bored for float valve: Float size:	yes/no in		4 ½ IF box 4 ½ Reg box yes 3 7/16"
Quantity: OD size: ID size: Top connection type: Bottom connection type: Bored for float valve: Float size:	no. in in yes/no in		1 ea 6 9/16" 2 15/16" 4 ½ IF box 4 ½ Reg box yes 3 7/16"
D.1.24 Crossover Subs			
Quantity: OD size (max/min): ID size: Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	no. in/in in	1 ea. 8-1/2 in X 9-1/2 in 3 in 7-5/8 in Reg Pin 6-5/8 in Reg Box	4 ea 8 9/16, 9 ½, 9 7/16, 9 1/4 3 3/16, 3 1/8, 3 3/16, 3 1/8 7 5/8 Reg. Pin 6 5/8 Reg. Box
Quantity: OD size (max/min): ID size: Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	no. in/in in	1 ea 7 <sup>3</sup> ⁄ <sub>4</sub> " 3" 6 5/8 Reg Box 4 <sup>1</sup> ⁄ <sub>2</sub> IF Pin	1 ea 7 ¾" 3" 6 5/8 Reg Box 4 ½ IF Pin
Quantity: OD size (max/min): Id Size  Top connection size:     Type (pin/box): Bottom connection size:	no. in in	5 ea 7 7/8, 2x7 11/16, 7 ¾, 8 1/4 2 7/8, 3 ¼, 3 1/16, 2.93, 2.812 4 ½ IF Box 6 5/8 Reg	5 ea 7 7/8, 2x7 11/16, 7 ¾, 8 1/4 2 7/8, 3 ¼, 3 1/16, 2.93, 2.812 4 ½ IF Box 6 5/8 Reg
Type (pin/box):  Quantity: OD size (max/min): Id Size Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	no. in in	Pin  1 ea 8 7/16" 2 15/16" 6 5/8 H90 Pin 6 5/8 Reg Box	Pin  1 ea 8 7/16" 2 15/16" 6 5/8 H90 Pin 6 5/8 Reg Box
Quantity: ID size: OD size (max/min): Top connection size:   Type (pin/box): Bottom connection size:   Type (pin/box):	no. in in/in	1 ea 2 ¾" 8" 4 ½ IF Box 6 5/8 H90 Pin	1 ea 2 ¾" 8" 4 ½ IF Box 6 5/8 H90 Pin
Quantity: OD size (max/min): ID size:	no. in/in in	3 ea 2x6 ¼", 1x6 ½" 2x2 ½", 1x2 15/16"	3 ea 2x6 ¼", 1x6 ½" 2x2 ½", 1x2 15/16"

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Top connection size:    Type (pin/box): Bottom connection size:    Type (pin/box):		4 ½ IF Box 3 ½ IF Pin	4 ½ IF Box 3 ½ IF Pin
Quantity: OD size (max/min): ID size: Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	no. in/in in	1 ea 6 3/8" 2 15/16" 4 1/2IF Box 4 IF Pin	1 ea 6 3/8" 2 15/16" 4 1/2IF Box 4 IF Pin
Quantity: OD size (max/min): ID size: Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	no. in/in in	1 ea 6 7/16" 3 1/16" 4 ½ IF Pin 4 ½ IF Pin	1 ea 6 7/16" 3 1/16" 4 ½ IF Pin 4 ½ IF Pin
Quantity: OD size (max/min): ID size: Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	no. in/in in	1 ea 9 ½" 3" 6 5/8 Reg Box 7 5/8 Reg Pin	1 ea 9 ½" 3" 6 5/8 Reg Box 7 5/8 Reg Pin
Quantity: ID size: OD size (max/min): Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	no. in in/in	1 ea 3" 8" 4 ½ IF Box 6 5/8 Reg Pin	1 ea 3" 8" 4 ½ IF Box 6 5/8 Reg Pin
Quantity: ID size: OD size (max/min): Top connection size: Type (pin/box): Bottom connection size: Type (pin/box):	no. in in/in	1 ea 3" 9 5/8" 4 ½ IF Box 7 5/8 Reg Pin	1 ea 3" 9 5/8" 4 ½ IF Box 7 5/8 Reg Pin
Quantity: ID size: OD size (max/min): Top connection size: Type (pin/box): Bottom connection size: Type (pin/box): (Contractor to provide all cross overs for its	no. in in/in drill srting)	2 ea 2 ½", 2 ½" 6 5/8" 4 ½ IF Box 4 ½ IF Pin	2 ea 2 ½", 2 ½" 6 5/8" 4 ½ IF Box 4 ½ IF Pin
D.1.25 Drilling Bumper Subs			
Quantity: Make:	no.	1 ea Bowen	1 ea Bowen

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
OD:	in	7 3/4"	7 3/4"
Stroke:	in	20"	20"
Connection type:		6 5/8 Reg	6 5/8 Reg
Quantity:	no.	1 ea	1 ea
Make:		NL Hycalog	NL Hycalog
OD:	in	8"	8"
Stroke:	in	20"	20"
Connection type:	""	6-5/8 Reg	6-5/8 Reg
Quantity:	no.	1 ea	1 ea
Make:	110.		
OD:	in	NL Hycalog	NL Hycalog 6-1/2"
	in	6-1/2"	
Stroke:	in	20"	20"
Connection type:		4-1/2 IF	4-1/2 IF
Quantity:	no.		
Make:			
OD:	in		
Stroke:	in		
Connection type:			
D.1.26 Hole Openers			
Quantity:	no.		No
Make:			
OD:	in		
Connection type:			
Quantity:	no.		
Make:			
OD:	in		
Connection type:			
D.1.27 Under Reamer			
Quantity:	no.		No
Make/type:			
OD min/OD max:	in/in		
Connection type:	,		
Quantity:	no.		
Make/type:	110.		
OD min/OD max:	in/in		
Connection type:	11 1/11 1		
D.2 HANDLING TOOLS			
D.2.1 Drill Pipe Elevators			
Size:	in	5" , 4-1/2	5" , 4-1/2
		2 ea	2 ea
Quantity:	no.		Varco BJ
Make:		Varco BJ	
Model:		GG	GG
Rated capacity:	st	350T	350T
Size:	in	3 ½"	3 ½"
Quantity:	no.	2 ea	2 ea
Make:		Varco BJ	Varco BJ

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Model:		MGG	MGG
Rated capacity:	st	250T	250T
Size:	in	2 7/8"	2 7/8"
Quantity:	no.	1 ea	1 ea
Make:	110.	Varco BJ	Varco BJ
Model:		MGG	MGG
	. 1		
Rated capacity:	st	150T	150T
D.2.2 Drill Collar Elevators			
Size:	in	Use lifting subs.	9 ½" ( Not in contract)
Quantity:	no.		2 ea
Make:			BJ
Model:			
Rated capacity:	st		
Nateu Capacity.	St		
Size:	in	Use lifting subs	8 ½"( Not in contract)
Quantity:	no.		4 ea`
Make:			BJ
			SLX
Model:			
Rated capacity:	st		150T
Size:	in		6 ½"( Not in contract)
Quantity:	no.	Use lifting subs	4 ea
Make:	110.	Goo mang dage	BJ
Model:			TA-150
Rated capacity:	st		150
Size:	in		4-3/4( Not in contract)
Quantity:	no.	Use lifting subs	1
Make:		3	VARCO BJ
Model:			TA-100
	o4		100
Rated capacity:	st		100
		3-1/2	3-1/2
		1	1
		VARCO BJ	VARCO BJ
		MGG 250	MGG 250
		250T	250T
		2501	2501
D.2.3 Tubing Elevators			
Size (max/min):	in/in	3-1/2 / 2-7/8 / 2-3/8	3-1/2 / 2-7/8 / 2-3/8
Quantity:	no.	1 EACH	1 EACH
Make:	-	Varco BJ	Varco BJ
Model:		YT	YT
	-1	75	
Rated capacity:	st	10	75
Size (max/min):	in/in	2-7/8	2-7/8
Quantity:	no.	1	1
Make:		Varco BJ	Varco BJ
Model:		RG	RG
Rated capacity:	st	150T	150T
D 2.4 Duill Dies Hand Clins			
D.2.4 Drill Pipe Hand Slips			
Size:	in	4 - 5"	4 - 5"

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Quantity: Make/type:	no.	2 VARCO BJ/ SDXL	2 VARCO BJ/ SDXL
Size:	in	3 ½"	3 ½"
Quantity:	no.	2	2
Make/type:		VARCO/ SDXL	VARCO/ SDXL
Size:	in	2- 3/8", 3-1/2	2- 3/8", 3-1/2
Quantity:	no.	4 ea	4 ea
Make/type:		VARCO/ SDML	VARCO/ SDML
Size:	in	2-7/8", 3-1/2" 13-3/4" GRIP	2-7/8", 3-1/2" 13-3/4" GRIP
Quantity:	no.	1 EACH	1 EACH
Make/type:		VARCO BJ / YT	VARCO BJ / YT
D.2.5 Semi-Automatic DP Slips			
Size range (largest/smallest):	in/in		
Quantity:	no.		No
Make/type:			
D.2.6 Drill Collar Slips			
Size:	in	6-3/4 - 8-1/4, 8 - 9-1/2, 8-	6-3/4 - 8-1/4, 8 - 9-1/2, 8-1/2
Quantity (	no	1/2 – 10" 1 ea	- 10"
Quantity: Make/type:	no.	VARCO BJ/ DCS-L	1 ea VARCO BJ/ DCS-L
Size:	in	5-1/2"-7" 6-1/2"	5-1/2"-7" 6-1/2"
Quantity:	no.	1	1
Make/type:		VARCO BJ/ DCS-R	VARCO BJ/ DCS-R
Size:	in	4"- 4-7/8"	4"- 4-7/8"
Quantity:	no.	1 ea	1 ea
Make/type:		VARCO BJ/ DCS-S	VARCO BJ/ DCS-S
Size:	in	4-3/4",	4-3/4",
Quantity:	no.	1 ea	1 ea
Make/type:		VARCO BJ/ DCS-S	VARCO BJ/ DCS-S
D.2.7 Drill Collar Safety Clamps			
Quantity:	no.	1ea	1ea
Range:	in/in	9 1/4" - 10 1/2"	9 1/4" – 10 1/2"
Quantity:	no.	1 ea	1 ea
Range:	in/in	2-3/8" 4-1/2"	2-3/8" 4-1/2"
Quantity:	no.		
Range:	in/in		
Quantity:	no.		
Range:	in/in		
D.2.8 Tubing Slips			
Size:	in	2-3/8" – 3-1/2"	2-3/8" — 3-1/2"
Quantity:	no.	1 ea	1 ea

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Make/type:		Varco SDML	Varco SDML
Size: Quantity: Make/type:	in no.		
D.2.9 Tubing Spider			
Slip size (max/min): Quantity: Make: Adapter Plate:	in/in no.		No
D.2.10 Drill Collar Lifting Subs			
Quantity: For DC OD: Connection Type:	no. in	2 ea 9-1/2" 7-5/8 Reg pin x 4 ½" IF box	2 ea 9-1/2" 7-5/8 Reg pin x 4 ½" IF box
Quantity: For DC OD: Connection Type:	no. in	4 ea 8-1/2" 6-5/8 Reg pin x 4 ½" IF box	4 ea 8-1/2" 6-5/8 Reg pin x 4 ½" IF box
Quantity: For DC OD: Connection Type:	no. in	4 ea 6-1/2" 4 ½" IF pin x 4 ½" IF box	2 ea 6-1/2" 4 ½" IF pin x 4 ½" IF box
Quantity: For DC OD: Connection Type:	no. in		
D.2.11 DC Lifting Plugs		NO	
Quantity: For OD DC: Connection Type:	no. in	NO	No
Quantity: For OD DC: Connection Type:	no. in		
Quantity: For OD DC: Connection Type:	no. in		
Quantity: For OD DC: Connection Type:	no. in		
D.2.12 Bit Breakers			
Quantity: For bit size:	no. in	1 ea. 26 in	1 ea 26 in
Quantity: For bit size:	no. in	1 ea. 17-1/2 in	1 17-1/2
Quantity: For bit size:	no. in	1 ea. 12-1/4 in	1 ea 12-1/4"

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Quantity: For bit size:	no. in	1 ea. 8-1/2 in	1 ea 8-1/2"
Quantity: For bit size:	no. in	1 ea. 6 in	1 6-3/4
Quantity: For bit size:	no. in	1 6-1/2	1 6-1/2
Quantity: For bit size:	no. in	1 6	1 6
Quantity: For bit size:	no. in	1 5-7/8	1 5-7/8
Quantity: For bit size		1 4-3/4	1 4-3/4
D.2.13 Elevator Links			
Quantity of sets: Make/type: Size: Length: Rated capacity:	no. in ft st	1 ea. 2-3/4" 132 in 350T	1 set BJ weldless 3 3/8 11 ft 350 T
Quantity of sets: Make/type: Size: Length: Rated capacity:	no. in ft st	1 ea. 3 ½" 108 in 350 T	1 set BJ weldless 3 13 /16 9 ft 350 T
Quantity of sets: Make/type: Size: Length: Rated capacity:	no. in ft st	1 set BJ weldless 3 ½ " 15 ft 500 T	1 set BJ weldless 4 11/16" 15 ft 500 T
Quantity of sets: Make/type: Size: Length: Rated capacity:	no. in ft st		
D.2.14 Kelly Spinner			
Make/type:			
D.2.15 Drill pipe Spinner		One	2 ea
Make/type: Size (max/min):	in/in	Varco BJ/SSW30 2 7/8" to 8"	Varco BJ/SSW30 2 7/8" to 8"
D.2.16 Mud Saver Bucket		One	
Make: Size:	in	3-1/2" – 5"	1ea 3 ½"- 5"

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Make:			
Size:	in		
D.2.17 Hydraulic Make-Up/Breakout I (e.g. EZ Torque)	Machine	One	1
Make/type: Maximum line pull:	ft lbs	Drilco- Hydraulic cathead 150,000 ft/lbs	Drilco- Hydraulic cathead 150,000 ft/lbs
D.2.18 Rotary Rig Tongs			
Quantity (sets):	no.	1	1
Make/type:		Varco BJ/ T-55	Varco BJ/ T-55
Size range (max OD/min OD): Torque rating:	in/in ft-lbs	2-7/8 / 8-1/5	2-7/8 / 8-1/5
Quantity (sets): Make/type: Size range (max OD/min OD):	no. in/in	1 Varco BJ / HT 65 3-1/2" – 13"	1 Varco BJ / HT 65 3-1/2" – 13"
,			65000
Torque rating:	ft/lbs	1 Varco BJ/ HT 100 4 TO 9-3/4	1 Varco BJ/ HT 100 4 TO 9-3/4 100000
D.2.19 Tubing Tongs (manual)			
Quantity (sets):	no.	NO	1
Make/type:			Varco /HT14 2 3/8-3 1/2
Size range (max OD/min OD):	in/in		14000
Torque rating:	ft/lbs		
D.2.20 Tubing Tong Power		No	Yes
Quantity:	no.	1	1
Make/type:		Eckle	Eckle
Size range (max OD/min OD):	in/in	2-1/16" to 7-7/8"	2-1/16" to 7-7/8"
Max output torque:	ft/lbs	20,000 ft/lbs	20,000 ft/lbs
Torque indicator: Back-up arm:	yes/no yes/no	No Yes	No Yes
D.2.21 Iron Roughneck	youmo	100	N/A
-			14/13
Make/type:	: /:		
Size range (max OD/min OD):	in/in ft/lbs		
Max. makeup torque Max. breakout torque	π/lbs ft/lbs		
D.3 FISHING EQUIPMENT To include all fishing tools for contract	ctor provided	No	

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
D.3.1 Overshots			
Quantity:	no.	1 ea	1 ea
	110.	Bowen/S.F.S 150	Bowen/S.F.S 150
Make/type:			
Overshot OD:	in	11-3/4	11-3/4
To catch size:	in	5" 6"	5" 6"
To catch size:	in	6-1/4", 6-1/2", 6-3/8"	6-1/4", 6-1/2", 6-3/8"
To catch size:	in	8", 81/2", 9", 9-1/2"	8", 81/2", 9", 9-1/2"
Overshot guide OD:	in	1X 21"; 2 X 16"	1X 21"; 2 X 16"
Extension sub length:	in	17(21,27(10	17(21,27(10
	111		
Lipped guide (oversize, regular):			
Grapples (spiral, basket, both):		both	both
Pack offs:	yes/no		
Top subs connection type:			
Quantity:	no.	1 ea	1 ea
Make/type:		Bowen / FS-150	Bowen / FS-150
Overshot OD:	in	10-5/8"	10-5/8"
To catch size:	in	5"-6-1/8"-6-1/4", 6-3/8",6	5"-6-1/8"-6-1/4", 6-3/8",6 1/2
TO Catch size.	III	1/2"	5 -0-1/0 -0-1/4 , 0-3/0 ,0 1/
To catch size:	in	6-3/4", 7-1/4", 7-7/8", 8"	6-3/4", 7-1/4", 7-7/8", 8"
Overshot guide OD:	in	1X15", 1X21"	1X15", 1X21"
	_	1X15 , 1X21	IXIO, IXZI
Extension sub length:	in		
Lipped guide (oversize, regular):			
Grapples (spiral, basket, both):		both	both
Pack offs:	yes/no		
Top sub connection type:	,		
Quantity:	no.	1 ea	1 ea
	110.		
Make/type:		Bowen / Series-150	Bowen / Series-150
Overshot OD:	in	8-1/8"	8-1/8"
To catch size:	in	5" with spiral	5" with spiral
To catch size:	in		
To catch size:	in		
Overshot guide OD:	in	12 3/4"	12 3/4"
Extension sub length:	in	60"	60"
	111		
Lipped guide (oversize, regular):		regular	regular
Grapples (spiral, basket, both):		both	both
Pack offs:	yes/no	yes	yes
Top sub connection type:	•	6 5/8 H90 box	6 5/8 H90 box
Quantity:	no.	1 ea	1 ea
Make/type:		Bowen / Series-150	Bowen / Series-150
Overshot OD:	in	10 1/8"	10 1/8"
	in :		
To catch size:	in	8 ½" with spiral	8 ½" with spiral
To catch size:	in	7 ¾" with basket	7 3/4" with basket
To catch size:	in		
Overshot guide OD:	in	10 1/8 "- 15"	10 1/8 "- 15"
Extension sub length:	in	36"	36"
Lipped guide (oversize, regular):		regular	regular
		_	both
Grapples (spiral, basket, both):		both	
Pack offs: Top sub connection type:	yes/no	yes 6 5/8 reg box	yes 6 5/8 reg box
Quantity:	no.	1 ea	1 ea
Make/type:		Bowen / Series-150	Bowen / Series-150
Overshot OD:	in	11 1/4"	11 1/4"
To catch size:	in	9 5/8" with spiral	9 5/8" with spiral
LA SEUGE SIZE	III	3 0/0 WILL SPITAL	Ta oro with apiral

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
To catch size:	in		
Overshot guide OD:	in	11 ¼" - 21" - 15"	11 ¼" - 21" - 15"
Extension sub length:	in	36"	36"
Lipped guide (oversize, regular):		regular	regular
Grapples (spiral, basket, both):		both	both
Pack offs:	yes/no	yes	yes
Top sub connection type:	yes/110	7 5/8 reg box	7 5/8 reg box
Quantity:	no.		
Make/type:			
Overshot OD:	in		
To catch size:	in		
To catch size:	in		
To catch size:	in		
Overshot guide OD:	in		
Extension sub length:	in		
Lipped guide (oversize, regular):			
Grapples (spiral, basket, both):			
Pack offs:	yes/no		
Top sub connection type:	<b>y</b>		
D.3.2 Hydraulic Fishing Jar			
Quantity:	no.	1 ea	1 ea
Make/type:		Bowen/ ype Z	Bowen/ ype Z
OD body:	in	7-3/4"	7-3/4"
Min. ID:	in		
Stroke:	in		
Connection type:	""	6 5/8 Reg	6 5/8 Reg
Repair kit:	yes/no	0 3/0 Keg	0 5/6 Reg
Quantity	no	1.00	1.00
Quantity:	no.	1 ea	1 ea
Make/type:		Bowen/ ype Z	Bowen/ ype Z
OD body:	in	6-1/4	6-1/4
Min. ID:	in		
Stroke:	in		
Connection type:		4-1/2 IF	4-1/2 IF
Repair kit:	yes/no		
Quantity:	no.		
Make/type:			
OD body:	in		
Min. ID:	in		
Stroke:			
	in		
Connection type: Repair kit:	yes/no		
D.3.3 Jar Intensifier	y <del>c</del> s/110		
D.O.O Odi interioritei		NO	
Quantity:	no.		No
Make/type:			
OD body:	in		
Min. ID:	in		
Connection type:	""		
Repair kit:	yes/no		
·	•		
Quantity:	no.		
Make/type:			
OD body:	in		

Min. ID:	SPECIFICATION / DESCRIPT	IONS	Requirement	Tenderer Specifications Offered
Repair kit:	Min. ID:	in		
D.3.4 Surface Jar	Connection type:			
Ouantity:	Repair kit:	yes/no		
Make/lype:         0.0	D.3.4 Surface Jar		NO	
OD body:   in   in   Connection type:   Repair kit:   yes/no	Quantity:	no.		No
OD body:   in   in   Connection type:   Repair kit:   yes/no	Make/type:			
Connection type:         Repair kit:         yes/no           D.3.5 Fishing Bumper Subs         no.         No         1 ea           Make/type:         DD body:         in         7 ½"         3 ½"           OD body:         in         3 ½"         20"         550 Reg pin x box           Quantity:         no.         Make/type:         6 5/8 Reg pin x box         1 ea         Medical pin x box           Quantity:         no.         No         Hycealog         6-1/2"         2-7/8"         6-1/2"         2-7/8"         1 ea         4-1/2 IF         4-1/2 IF         1 ea         Medical pin x box         No         Hycealog         6-1/2"         2-7/8"         1 ea         4-1/2 IF         No         Hycealog         6-1/2"         2-7/8"         1 ea         6-5/8" Reg         6-5/8" Reg         6-5/8" Reg         6-5/8" Reg         6-5/8" Reg         6-5/8" Reg         6-5/8" Reg <t< td=""><td></td><td>in</td><td></td><td></td></t<>		in		
Repair kit:	Stroke:	in		
D.3.5 Fishing Bumper Subs	Connection type:			
Description	Repair kit:	yes/no		
Make/type: OD body:	D.3.5 Fishing Bumper Subs			
Make/type: OD body:	Quantity:	no.	No	1 ea
OD body:   in				
Min. ID:         in Stroke:         in Connection type:         3 ½" 20" 65/8 Reg pin x box           Quantity:         no. Make/type:         NO         1 ea Hycalog 6-1/2" 4-1/2 IF           Make/type:         no. Min. ID:         in Stroke:         in in Stroke:         NO         4-1/2 IF           D.3.6 Safety Joints         No         No         A-1/2 IF           D.3.6 Safety Joints         No         No         No           Quantity:         no.         No         No           Quantity:         no.         No         No           Quantity:         no.         1 ea Bowen         Bowen           For hole size:         in         11-3/8"         11-3/8"           G-5/8" Reg         6-5/8" Reg         6-5/8" Reg           Inside magnet av		in		
Stroke:				
Connection type:  Quantity:				
Make/type:         OD body:         in Min. ID:         Hycalog 6-1/2"           Min. ID:         in Stroke:         in Connection type:         4-1/2 IF           D.3.6 Safety Joints           Quantity:         no.           Make/type:         OD body:         in Min. ID:           Connection type:         no.         Make/type:           OD body:         in Min. ID:         no.           Connection type:         D.3.7 Junk Baskets (Reverse Circulation)         Yes         Yes           D.3.7 Junk Baskets (Reverse Circulation)         Yes         Yes           Quantity:         no.         1 ea         1 ea           Bowen         Bowen         Bowen           For hole size:         in         12-1/4"         12-1/4"           OD body:         in         11-3/8"         6-5/8" Reg           Gonnection type:         B         B           Inside magnet available:         yes/no           Mill shoes type (A, B, C):         B         B           Quantity:         no.         1 ea         1 ea           Make/type:         Bowen         Bowen         Bowen           For hole size:         in         1 ea         Bowen <td></td> <td></td> <td></td> <td></td>				
Make/type:         OD body:         in Min. ID:         Hycalog 6-1/2"           Min. ID:         in Stroke:         in Connection type:         4-1/2 IF           D.3.6 Safety Joints           Quantity:         no.           Make/type:         OD body:         in Min. ID:           Connection type:         no.         Make/type:           OD body:         in Min. ID:         no.           Connection type:         D.3.7 Junk Baskets (Reverse Circulation)         Yes         Yes           D.3.7 Junk Baskets (Reverse Circulation)         Yes         Yes           Quantity:         no.         1 ea         1 ea           Bowen         Bowen         Bowen           For hole size:         in         12-1/4"         12-1/4"           OD body:         in         11-3/8"         6-5/8" Reg           Gonnection type:         B         B           Inside magnet available:         yes/no           Mill shoes type (A, B, C):         B         B           Quantity:         no.         1 ea         1 ea           Make/type:         Bowen         Bowen         Bowen           For hole size:         in         1 ea         Bowen <td>Quantity:</td> <td>no</td> <td></td> <td>1 ea</td>	Quantity:	no		1 ea
OD body:         in Min. ID:         6-1/2"           Min. ID:         in Stroke:         in in Stroke:           Connection type:         4-1/2 IF           No           D.3.6 Safety Joints           Quantity:         no.           Make/type:           OD body:         in Min. ID:           Connection type:         in Min. ID:           Quantity:         no.           Make/type:         on Dody:           Connection type:         Yes           Yes           Quantity:         no.           Make/type:         Bowen           For hole size:         in Description type:           Quantity:         no.           D body:         in Description type:           Quantity:         no.           Mill shoes type (A, B, C):         B           Quantity:         no.           Make/type:         Bowen           Bowen		110.	NO	
Min. ID.'         in Stroke:         2-7/8"           Connection type:         4-1/2 IF           D.3.6 Safety Joints         No           Quantity:         no.           Make/type:         in Min. ID:           Ob body:         in Min. ID:           Connection type:         no.           Make/type:         in Min. ID:           Connection type:         Yes           D.3.7 Junk Baskets (Reverse Circulation)         Yes           Quantity:         no.           Make/type:         Bowen           For hole size:         in 12-1/4"           OD body:         in 12-1/4"           1 ea         Bowen           Bowen         Fo/8" Reg           6-5/8" Reg         6-5/8" Reg           In:3/8"         6-5/8" Reg           Bowen         Bowen           Bowen		in	110	6-1/2"
Stroke:         in         4-1/2 IF           D.3.6 Safety Joints         No           Quantity:         no.           Make/type:         OD body:           OD body:         in           Min. ID:         in           Connection type:         No           Quantity:         no.           Make/type:         In           Connection type:         Yes           P.3.7 Junk Baskets (Reverse Circulation)         Yes           Yes         Yes           Quantity:         no.           Make/type:         Bowen           For hole size:         in           11-3/8"         11-3/8"           Connection type:         6-5/8" Reg           Inside magnet available:         yes/no           Mill shoes type (A, B, C):         B           Quantity:         no.           Make/type:         Bowen           For hole size:         in           1 ea         Bowen           Bowen         Bowen           Bowen         Bowen           Bowen         8-1/2"				
Connection type:				2-110
Quantity: D. D		""		4-1/2 IF
Quantity: no. Make/type: OD body: in Min. ID: in Connection type: OD body: in Make/type: OD body: in Make/type: OD body: in Make/type: OD body: in Min. ID: in Connection type: OD body: in Description of the size: in Make/type: OD body: In Min. ID: OD body: In Min.	D.3.6 Safety Joints			
Make/type:       OD body:       in         Min. ID:       in         Connection type:       no.         Quantity:       no.         Min. ID:       in         Connection type:       in         D.3.7 Junk Baskets (Reverse Circulation)       Yes         Yes       Yes         Quantity:       no.       1 ea         Make/type:       Bowen       Bowen         For hole size:       in       12-1/4"       12-1/4"         OD body:       in       11-3/8"       6-5/8" Reg         Connection type:       6-5/8" Reg       6-5/8" Reg         Inside magnet available:       yes/no       B         Mill shoes type (A, B, C):       B       B         Quantity:       no.       1 ea       1 ea         Make/type:       Bowen       Bowen       Bowen         For hole size:       in       8-1/2"       8-1/2"			No	
OD body:         in in connection type:         in in connection type:         in in connection type:         in connection type:         in connection type:         in connection type:         Yes         Ye		no.		
Min. ID:       in         Connection type:       no.         Make/type:       no.         OD body:       in         Min. ID:       in         Connection type:       Yes         D.3.7 Junk Baskets (Reverse Circulation)       Yes         Quantity:       no.       1 ea         Make/type:       Bowen       Bowen         For hole size:       in       12-1/4"       12-1/4"         OD body:       in       11-3/8"       11-3/8"         Connection type:       6-5/8" Reg       6-5/8" Reg         Inside magnet available:       yes/no       B         Mill shoes type (A, B, C):       B       B         Quantity:       no.       1 ea       1 ea         Make/type:       Bowen       Bowen         For hole size:       in       8-1/2"       8-1/2"				
Connection type:       no.         Make/type:       no.         OD body:       in         Min. ID:       in         Connection type:       Yes         Page 1       Yes         Quantity:       no.       1 ea Bowen Bo				
Quantity:  Make/type: OD body: Min. ID: Connection type:  D.3.7 Junk Baskets (Reverse Circulation)  Yes  Yes  Yes  Quantity:  no. Make/type: For hole size:  OD body:  in 12-1/4"  OD body: in 11-3/8" Connection type: Inside magnet available: Mill shoes type (A, B, C):  Quantity: No. Mill shoes type (A, B, C):  Reg  Alea  Bowen Bo		in		
Make/type:       OD body:       in         Min. ID:       in         Connection type:       Yes         Post of the size:       1 ea         Make/type:       Bowen         For hole size:       in         12-1/4"       12-1/4"         OD body:       in         Connection type:       11-3/8"         Inside magnet available:       yes/no         Mill shoes type (A, B, C):       B         Quantity:       no.         Ake/type:       Bowen         For hole size:       in	Connection type:			
OD body:         in Min. ID:         in in Connection type:         Yes         Yes           D.3.7 Junk Baskets (Reverse Circulation)         Yes         Yes           Quantity:         no.         1 ea Bowen         Bowen           For hole size:         in 12-1/4"         12-1/4"           OD body:         in 11-3/8"         11-3/8"           Connection type:         6-5/8" Reg         6-5/8" Reg           Inside magnet available:         yes/no         B           Mill shoes type (A, B, C):         B         B           Quantity:         no.         1 ea Bowen         Bowen           For hole size:         in 8-1/2"         8-1/2"	Quantity:	no.		
Min. ID:       in         Connection type:       Yes         D.3.7 Junk Baskets (Reverse Circulation)       Yes         Quantity:       no.       1 ea       1 ea         Make/type:       Bowen       Bowen       Bowen         For hole size:       in       12-1/4"       12-1/4"         OD body:       in       11-3/8"       11-3/8"         Connection type:       6-5/8" Reg       6-5/8" Reg         Inside magnet available:       yes/no       B         Mill shoes type (A, B, C):       B       B         Quantity:       no.       1 ea       1 ea         Make/type:       Bowen       Bowen         For hole size:       in       8-1/2"       8-1/2"	Make/type:			
Connection type:         D.3.7 Junk Baskets (Reverse Circulation)       Yes       Yes         Quantity:       no.       1 ea       1 ea         Make/type:       Bowen       Bowen       12-1/4"         For hole size:       in       12-1/4"       12-1/4"         OD body:       in       11-3/8"       11-3/8"         Connection type:       6-5/8" Reg       6-5/8" Reg         Inside magnet available:       yes/no         Mill shoes type (A, B, C):       B       B         Quantity:       no.       1 ea       1 ea         Make/type:       Bowen       Bowen       Bowen         For hole size:       in       8-1/2"       8-1/2"	OD body:	in		
Quantity:  Quantity:  No.  I ea  Bowen  For hole size:  OD body:  Connection type:  Inside magnet available:  Mill shoes type (A, B, C):  Quantity:  No.  Quantity:  No.  Quantity:  No.  Quantity:  No.  Quantity:  No.  Ake/type:  For hole size:  No.  No.  Ake/type:  No.  Mill shoes size:  No.  No.  No.  No.  No.  No.  No.  No		in		
Quantity:  Make/type: For hole size:  OD body: Connection type: Inside magnet available: Mill shoes type (A, B, C):  Ouantity:  Make/type:  Inside magnet available: Mill shoes type (A, B, C):  Ouantity: Inside magnet available: Inside magnet avai	Connection type:			
Make/type:       Bowen       Bowen         For hole size:       in       12-1/4"       12-1/4"         OD body:       in       11-3/8"       11-3/8"         Connection type:       6-5/8" Reg       6-5/8" Reg         Inside magnet available:       yes/no       B         Mill shoes type (A, B, C):       B       B         Quantity:       no.       1 ea       1 ea         Make/type:       Bowen       Bowen         For hole size:       in       8-1/2"       8-1/2"	D.3.7 Junk Baskets (Reverse 0	Circulation)	Yes	Yes
Make/type:         Bowen         Bowen           For hole size:         in         12-1/4"         12-1/4"           OD body:         in         11-3/8"         11-3/8"           Connection type:         6-5/8" Reg         6-5/8" Reg           Inside magnet available:         yes/no         B           Mill shoes type (A, B, C):         B         B           Quantity:         no.         1 ea         1 ea           Make/type:         Bowen         Bowen           For hole size:         in         8-1/2"         8-1/2"	Quantity:	no.	1 ea	1 ea
For hole size:       in       12-1/4"       12-1/4"         OD body:       in       11-3/8"       11-3/8"         Connection type:       6-5/8" Reg       6-5/8" Reg         Inside magnet available:       yes/no       B         Mill shoes type (A, B, C):       B       B         Quantity:       no.       1 ea       1 ea         Make/type:       Bowen       Bowen         For hole size:       in       8-1/2"       8-1/2"				Bowen
Connection type: Inside magnet available: Mill shoes type (A, B, C):  Quantity: Make/type: For hole size:    6-5/8" Reg		in	12-1/4"	12-1/4"
Connection type: Inside magnet available: Mill shoes type (A, B, C):  Quantity: Make/type: For hole size:    6-5/8" Reg	OD body:	in	11-3/8"	11-3/8"
Inside magnet available:  Mill shoes type (A, B, C):   Quantity:  No.  1 ea  Make/type:  Bowen  For hole size:  In 8-1/2"  Babel B  B  1 ea  Bowen  Bowen  8-1/2"		"1		
Mill shoes type (A, B, C):       B       B         Quantity:       no.       1 ea       1 ea         Make/type:       Bowen       Bowen         For hole size:       in       8-1/2"       8-1/2"		ves/no	- 0,0 1.09	3 5.0 1.29
Make/type:  For hole size:  Bowen 8-1/2"  Bowen 8-1/2" 8-1/2"		, 30,110	В	В
Make/type:  For hole size:  Bowen 8-1/2"  Bowen 8-1/2" 8-1/2"	Quantity:	no	1 ea	1 ea
For hole size: in 8-1/2" 8-1/2"		110.		
		in		
VILLEBERY	OD body:	in	8-1/8"	8-1/8"
Connection type: 6-5/8" R 6-5/8" R		111		
Inside magnet available: yes/no		ves/no	0-5/0 IX	3-0/0 1

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Mill shoes type (A, B, C):		В	В
0 "			
Quantity:	no.		
Make/type:			
For hole size:	in		
OD body:	in		
Connection type:			
Inside magnet available:	yes/no		
Mill shoes type (A, B, C):	yes/no		
D.3.8 Junk Subs		Yes	yes
Quantity:	no.	1 ea	1 ea
Make/type:		BOWEN	BOWEN
For hole size:	in	12-1/4"	12-1/4"
OD body:	in	9-3/4"	9-3/4"
	11.1		
Connection type:		6-5/8 Reg	6-5/8 Reg
Quantity:	no.	2 ea	2 ea
Make/type:		BOWEN	BOWEN
For hole size:	in	8-1/2"	8-1/2"
OD body:	in	6-5/8"	6-5/8"
Connection type:		4-1/2" Reg	4-1/2" Reg
Connection type.		4-1/2 (Keg	4-1/2 Reg
Quantity:	no.	2	
Make/type:			
For hole size:	in	6"	
	in	0	
OD body:	III		
Connection type:  D.3.9 Flat Bottom Junk Mill			
Quantity:	no.	NO	1 ea
Make/type:			Bowen
OD flat mill:	in		10 7/8"
Connection type:			6 5/8 Reg pin
• •			o e/e i tog piii
Quantity:	no.		1 ea
Make/type:		NO	Bowen
OD flat mill:	in		7 7/8"
Connection type:			4 ½ Reg
Connection type.			
Quantity:	no.		1 ea
Make/type:		NO	Bowen
OD flat mill:	in		5 5/8"
Connection type:			3 ½ Reg
• •			3 /2 INeg
D.3.10 Magnet Fishing Tools			
Quantity:	no.	NO	1 ea
Make/type:			Milwaukee
OD body:	in		10"
Connection type:			6 5/8 Reg pin
Quantity:	no.		1 ea
Make/type:		NO	Milwaukee
OD body:	in.		7"
Connection type:	in		4 ½ Reg pin

SPECIFICATION / DESCRIPTIONS	<b>.</b>	Requirement	Tenderer Specifications Offered
Quantity:	no.		
Make/type:			
OD body:	in		
Connection type:			
Ditch Magnet In Flow Channel D.3.11 Taper Taps	Yes/No	No	
• •			
Quantity:	no.		1 ea
Make:		No	Baash ross
Tap OD (max/min):	in/in		4 ½" max, 2 ¼" min.
OD body:	in		8"
Length overall:	ft		24"
Connection type:			6 5/8 Reg
Quantity:	no.		1 ea
Make:			Bowen
Tap OD (max/min):	in/in		4 ½" max, 2 ¼" min.
OD body:	in		6 1/8"
Length overall:	ft		32"
Connection type:	IL		4 ½ IF
Connection type.			4 /2 1
Quantity:	no.		
Make:			
Tap OD (max/min):	in/in		
OD body:	in		
Length overall:	ft		
Connection type:	10		
D.3.12 Die Collars			No.
Quantity:	no.		
Make/type:			
OD (Max/Min):	in/in		
OD body:	in		
Length:	ft		
Connection type:	it		
Quantity	no		
Quantity:	no.		
Make/type:	i /:		
OD (Max/Min):	in/in		
OD body:	in ft		
Length: Connection type:	п		
E. WELL CONTROL			
E.1 DIVERTER		Yes	
Fixed:	yes/no	No	No
Make/type:	•		REGAN KFL
Maximum bore:	in		30"
ID of insert packer:	in		29 ½"
Working pressure:	psi		500 Psi
Annular:	no.		1
	110.	Lludrill	·
Make/type:	:	Hydrill	Hydrill
Maximum bore:	in :	21 1/4"	21 1/4"
ID of insert packer:	in	18.5	18.5
Working pressure:	psi	2000 psi	2000 psi

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specification
Bottom connection:			2
Size:	in	21-1/4 in	21 1/4
Working pressure:	psi	2,000 psi	2,000 psi
Gasket type:	•	R-73	RX-73
Rams:	no.		
Make/type:		No	
Ram packer type:		30" MSS FLANGE	30" MSS FLANGE
Ram packer type:		2000 psi	2000 psi
Max bore size:		2000 psi	2000 psi
	noi		
Working pressure:	psi		
Bottom connection:			
Size:	in		
Working pressure:	psi		
Gasket type:			
Number of Diverter outlets:	no.		
Outlet OD (nominal):	in		
E.1.1 Diverter Flow Lines			
Quantity:	no.	2 ea.	2
Nominal size of flow lines:	in	12 in	12 in
Running from Diverter to:		PORT AND STARBOARD	Port and Starboard
-			Tort and Starboard
Valve make/type:		WKM/370B	WKM/370B
Quantity:	no.	2 ea	2
Size:	in	12 in	12
Working pressure:	psi	500 psi	500 psi
Valve operator (air/hydraulic):	ρο.	Hydraulic	Hydraulic
Valve make/type:		Tryaradilo	Tryuradiio
Quantity:	no		
	no.		
Size:	in :		
Working pressure:	psi		
Valve operator (air/hydraulic):	_		
System pressure rating:	psi		
Flex hose in flow line:	yes/no		
E.1.2 Diverter Control Panel			
Primary make/type:			
Location:		Main BOP Control Panel	Main BOP Control Panel
		(koomey)	(koomey)
Remote make/type:		Koomey	Koomey
Location:		Driller shelter	Driller shelter
		Driller shelter	
		Driller shelter Koomey AG7GM	Driller shelter Koomey AG7GM S/B Main Deck near
Remote make/type:		Driller shelter	Koomey AG7GM
Remote make/type: Location:	EVENTERS	Driller shelter Koomey AG7GM S/B Main Deck near	Koomey AG7GM S/B Main Deck near
Remote make/type: Location:  E.2 LOW PRESSURE BLOWOUT PRE	EVENTERS yes/no	Driller shelter Koomey AG7GM S/B Main Deck near	Koomey AG7GM S/B Main Deck near
Remote make/type: Location:  E.2 LOW PRESSURE BLOWOUT PRE  All appropriate components H2S rated		Driller shelter Koomey AG7GM S/B Main Deck near accommodation	Koomey AG7GM S/B Main Deck near accommodation
Remote make/type: Location:  E.2 LOW PRESSURE BLOWOUT PRE All appropriate components H2S rated  E.2.1 Ram Type Preventers	yes/no	Driller shelter Koomey AG7GM S/B Main Deck near accommodation  Yes	Koomey AG7GM S/B Main Deck near accommodation yes
Remote make/type: Location:  E.2 LOW PRESSURE BLOWOUT PRE All appropriate components H2S rated  E.2.1 Ram Type Preventers  Quantity:		Driller shelter Koomey AG7GM S/B Main Deck near accommodation  Yes  1 ea.	Koomey AG7GM S/B Main Deck near accommodation  yes
Remote make/type: Location:  E.2 LOW PRESSURE BLOWOUT PRE All appropriate components H2S rated  E.2.1 Ram Type Preventers  Quantity: Make/model:	yes/no	Driller shelter Koomey AG7GM S/B Main Deck near accommodation  Yes  1 ea. Cameron	Koomey AG7GM S/B Main Deck near accommodation  yes  1 ea Cameron
Remote make/type: Location:  E.2 LOW PRESSURE BLOWOUT PRE All appropriate components H2S rated  E.2.1 Ram Type Preventers  Quantity: Make/model: Type: (single/double/triple):	yes/no no.	Driller shelter Koomey AG7GM S/B Main Deck near accommodation  Yes  1 ea. Cameron Double	Koomey AG7GM S/B Main Deck near accommodation  yes  1 ea Cameron single
Remote make/type: Location:  E.2 LOW PRESSURE BLOWOUT PRE  All appropriate components H2S rated	yes/no	Driller shelter Koomey AG7GM S/B Main Deck near accommodation  Yes  1 ea. Cameron	Koomey AG7GM S/B Main Deck near accommodation  yes  1 ea Cameron

SPECIFICATION / DESCRIPTIONS	5	Requirement	Tenderer Specifications Offered
Type (manual/hydraulic):		Manual	Manual
H2S service:	yes/no	Yes	yes
Side outlets:	no.	2 ea.	no
Size:	in		4-1/16 in
WP:	psi	2,000 psi	2,000 psi
Bottom connection:	psi		
		21-1/4 in Flanged - R-73	21 1/4" Flanged, RX-73
Top connection:	,	21-1/4 in Flanged - R-73	21 ¼" Flanged, RX-73
Shear ram boosters:	yes/no		No
Quantity:	no.		
Make/model:			
Type: (single/double/triple):			
Size:	in		
Working pressure:	psi		
Ram locks:	yes/no		
Type (manual/hydraulic):	y 00/110		
H2S service:	yes/no		
Side outlets:	no.		
Size:	in		
WP:	psi		
Bottom connection:			
Top connection:			
Shear ram boosters:	yes/no		
onear fam boosters.	ye3/110		
E.2.2 Available Rams (installed &	spare)	Not installed	Not installed
Quantity/type/size	no./type/in		1x 5" pipe ram 21 ¼" BOP
Quantity/type/size	no./type/in		
Quantity/type/size Quantity/type/size	no./type/in		
E.2.3 BOP Ram Configuration (no	rmal)		
Hanan		Dia -	Dia -
Upper:		Pipe	Pipe
Middle Upper:			
Middle Lower:			
Lower:			
E.2.4 Annular Preventer			
Quantity:	no.	1	1 ea
Make/type:		Hydril / MSP-2000	Hydril / MSP-2000
Size:	in	21-1/4"	21-1/4"
Working pressure:	psi	2,000 psi	2,000 psi
Bottom Connection:		R-73	RX-73
Top Connection:			
E. 2.5 Kill Line Valves			
Quantity:	no.		
Make/type:			
Size:	in		
Working pressure:	psi		
Gasket type Hydraulic/manual/non-return:			
Quantity:	no.		

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Make/type:			
Size:	in		
Working pressure:	psi		
Gasket type	·		
Hydraulic/manual/non-return:			
Quantity:	no.		
Make/type:			
Size:	in		
Working pressure:	psi		
Gasket type			
Hydraulic/manual/non-return:			
E.2.6 Choke Line Valves			
Quantity:	no.		
Make/type:			
Size:	in		
Working pressure:	psi		
Gasket type			
Hydraulic/manual:			
Quantity:	no.		
Make/type:			
Size:	in		
Working pressure:	psi		
Gasket type			
Hydraulic/manual:			
Hydraulic/manual:  E.3 HIGH PRESSURE BLOWOUT PR	EVENTERS		
	EVENTERS yes/no	Yes	Yes
E.3 HIGH PRESSURE BLOWOUT PR		Yes	Yes
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:		Yes 1 ea.	Yes 1 ea
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers	yes/no		
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity:	yes/no	1 ea. Cameron / Type U SINGLE	1 ea Cameron/ Type U Single
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size:	yes/no no. in	1 ea. Cameron / Type U SINGLE 13-5/8 in	1 ea Cameron/ Type U Single 13-5/8"
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure:	yes/no no. in psi	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks:	yes/no no. in	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic):	no. in psi yes/no	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service:	no.  in psi yes/no yes/no	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets:	no.  in psi yes/no yes/no no.	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea.	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size:	no.  in psi yes/no yes/no no. in	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in
E.3 HIGH PRESSURE BLOWOUT PROBLEM All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP:	no.  in psi yes/no yes/no no.	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi
E.3 HIGH PRESSURE BLOWOUT PR  All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection:	no.  in psi yes/no yes/no no. in	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection: Top connection:	no.  in psi yes/no yes/no no. in psi	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159
E.3 HIGH PRESSURE BLOWOUT PR  All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection:	no.  in psi yes/no yes/no no. in	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection: Top connection: Shear ram boosters:  Quantity:	no.  in psi yes/no yes/no no. in psi	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE 1 ea
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection: Top connection: Shear ram boosters:	no.  in psi yes/no yes/no no. in psi yes/no	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE
E.3 HIGH PRESSURE BLOWOUT PROBLEM All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection: Top connection: Top connection: Shear ram boosters:  Quantity: Make/model: Type (single/double/triple):	no.  in psi yes/no yes/no no. in psi yes/no	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE  1 Cameron / Type U Double	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE  1 ea Cameron / Type U Double
E.3 HIGH PRESSURE BLOWOUT PROBLEM All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection: Top connection: Top connection: Shear ram boosters:  Quantity: Make/model:	no.  in psi yes/no yes/no no. in psi yes/no	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE  1 Cameron / Type U	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE  1 ea Cameron / Type U
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection: Top connection: Top connection: Shear ram boosters:  Quantity: Make/model: Type (single/double/triple): Size: Working pressure:	no.  in psi yes/no yes/no no. in psi yes/no no. no. no.	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE  1 Cameron / Type U Double 13-5/8 in 10,000 psi	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE  1 ea Cameron / Type U Double 13-5/8" 10,000 psi
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection: Top connection: Top connection: Shear ram boosters:  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks:	no.  in psi yes/no yes/no no. in psi yes/no no. in psi yes/no no. in in	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE  1 Cameron / Type U Double 13-5/8 in 10,000 psi Yes	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE  1 ea Cameron / Type U Double 13-5/8"
E.3 HIGH PRESSURE BLOWOUT PR All appropriate components H2S rated:  E.3.1 Ram Type Preventers  Quantity: Make/model: Type (single/double/triple): Size: Working pressure: Ram locks: Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection: Top connection: Top connection: Shear ram boosters:  Quantity: Make/model: Type (single/double/triple): Size: Working pressure:	no.  in psi yes/no yes/no no. in psi yes/no no. in psi yes/no no.	1 ea. Cameron / Type U SINGLE 13-5/8 in 10,000 psi Yes Manual YES 2 ea. 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE  1 Cameron / Type U Double 13-5/8 in 10,000 psi	1 ea Cameron/ Type U Single 13-5/8" 10,000 psi Yes Hydraulic Yes 2 4-1/16 in 10,000 psi Flange – BX-159 Flange – BX-159 NONE  1 ea Cameron / Type U Double 13-5/8" 10,000 psi

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Side outlets: Size:	no. in	4 ea. 4-1/16"	4 ea. 4-1/16"
WP:	psi	10,000 psi	10,000 psi
Bottom connection:		Flange – BX-159	Flange – BX-159
Top connection:		Flange – BX-159	Flange – BX-159
Shear ram boosters:	yes/no	Yes	yes
E.3.2 Available Rams (installed & s	pare)		
Quantity/type/size:	no./type/in	2 ea. 9 5/8"	2 ea. 9 5/8"
Quantity/type/size:	no./type/in	2 ea. 7 5/8"	2 ea. 7 5/8"
Quantity/type/size:	no./type/in	2 ea 7"	2 ea 7"
Quantity/type/size:	no./type/in	2 ea. 5 ½"	2 ea. 5 ½"
		4 ea. 5"	4 ea. 5"
Quantity/type/size:	no./type/in		
Quantity/type/size:	no./type/in	6 ea. 3 ½"	6 ea. 3 ½"
Quantity/type/size:	no./type/in	2 ea. 2 7/8"	2 ea. 2 7/8"
Quantity/type/size:	no./type/in	2 ea. SBR	2 ea. SBR/2ea ISR
Quantity/type/size:	no./type/in	2 ea. 2 7/8"Dual Pipe Rams	2 ea. 2 7/8"Dual Pipe Rams
Quantity/type/size:	no./type/in	2 ea. 3 ½" Dual Pipe Rams	2 ea. 3 ½" Dual Pipe Rams
E.3.3 BOP Ram Configuration (nor	mal)		
Upper:		Pipe	Pipe
Upper middle:			
Middle:		Blind /Shear	Shear rams ISR
Middle lower:			
Lower:		Pipe	Pipe rams
		i ipe	i ipe iams
E.3.4 Annular Preventer			
Quantity:	no.	1 ea.	1 ea
Make/type:		Hydril GL	Hydril GK
Size:	in	13 5/8 in.	13-5/8"
Working pressure:	psi	5,000 psi	5000 psi
Bottom connection:	<b>P</b>	Flanged – BX-159	Flanged BX-159
Top connection:		Flanged BX-160	Flanged BX-160
·		ŭ	
Quantity: Make/type:	no.		
Make/type. Size:	in		
Working pressure: Bottom connection:	psi		
Top connection:			
E.3.5 Kill Line Valves			
Quantity:	no.	1 ea.	1 ea
Make/type:		CAMERON Hydraulically	Cameron CIW GATE
		Operated	
Size:	in	3 1/8 in	3-1/8"
Working pressure:	psi	10,000	10,000 psi
Gasket type:	•	BX-154	BX-154
Hydraulic/manual/non-return:		Hydraulic	Hydraulic
Quantity:	no.	1 ea.	3 ea
Make/type:		Cameron "F" manually	Cameron CIW GATE/FCC
		operated	3
		· ODGIGIGG	

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Working pressure:	psi	10,000 psi	10,000 psi
Gasket type:	•	BX-154	BX-154
Hydraulic/manual/non-return:		Manual	Manual
Quantity:	no.	2ea	2ea
Make/type:		CIW/R	CIW/R
Size:	in	3 1/16	3 1/16 bore
Working pressure:	psi	10,000 psi	10,000 psi
Gasket type:		BX-154	BX-154
Hydraulic/manual/non-return:		Non return	Non return
E.3.6 Choke Line Valves			
Quantity:	no.	1 ea	1 ea
Make/type:		Cameron CIW-GATE	Cameron CIW- type FCC GATE
Size:	in	3-1/8"	3-1/8"
Working pressure:	psi	10,000 psi	10,000 psi
Gasket type:	psi	BX-154	BX-154
Hydraulic/manual:		Hydraulic	Hydraulic
Tryuraulic/manual.		Tiyuraulic	Trydradiic
1		3	3
Make/type:		Cameron CIW-GATE	Cameron CIW-GATE
Size:	in	3-1/8"	3-1/8"
Working pressure:	psi	10,000 psi	10,000 psi
Gasket type:	·	BX-154	BX-154
Hydraulic/manual:		Manual	Manual
E.4 OTHER BLOWOUT PREVENTERS			
All appropriate components H2S rated	yes/no		
E.4.1 Ram Type Preventers			
Quantity:	no.		
Make/model:			
Type (single/double/triple):			
Size:	in		
Working pressure	psi		
Ram locks:	yes/no		
Type (manual/hydraulic):			
H2S service:	yes/no		
Side outlets:	no.		
Size: WP: psi	in		
Bottom connection:			
Top connection:			
Shear ram boosters:	yes/no		
Quantity:	no.		
Make/model:			
Type (single/double/triple):	·		
Size:	in		
Working pressure	psi		
Ram locks:	yes/no		
Type (manual/hydraulic):	,		
H2S service:	yes/no		
Side outlets:	no.		
Size:	in		

uantity/type/size: no./type/in Quantity/type/size: no./type/in Quantity: no. Make/type: E.4.6 Choke Line Valves Quantity: no. Make/type: Hydraulic/manual: Quantity: no. Make/type: Hydraulic/manual: Quantity: no. Make/type: Hydraulic/manual: Quantity: no. Make/type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM E.5.1 Accumulator Unit Make/model: Koomey/MB 160-20 Type80 S/B Main Deck Aft 480 ABO Glover-rite Fluid Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid System working pressure: psi Gottorlo manifold model: Jud 220 gal Jud 220 gal Jud 220 gal Jud 2RB-7AR	SPECIFICATION / DESCRIPT	IONS	Requirement	Tenderer Specifications Offered
Bottom connection: Top connection: Shear ram boosters: Shear ram b	WP: psi			
Top connection: Shear ram boosters: yes/no  E.4.2 Available Rams (installed & spare)  Quantity/hype/size: no./type/in Quantity				
Shear ram boosters: yes/no  E.4.2 Available Rams (installed & spare)  Quantity/type/size: no./type/in Quantity/type/size: no./type/size:				
E.4.2 Available Rams (installed & spare)  Quantity/type/size: no./type/in Quantity/type/size: no./type/size: no./type/size: no./type/size: no./type/size: no./type/size: no./type/size: no./ty		ves/no		
Ouantity/type/size:		•		
uantity/type/size: no./type/in Quantity/type/size: no./type/in Quantity: no. Make/type: E.4.6 Choke Line Valves Quantity: no. Make/type: Hydraulic/manual: Quantity: no. Make/type: Hydraulic/manual: Quantity: no. Make/type: Hydraulic/manual: Quantity: no. Make/type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM E.5.1 Accumulator Unit Make/model: Koomey/MB 160-20 Type80 S/B Main Deck Aft 480 ABO Glover-rite Fluid Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid System working pressure: psi Gottorlo manifold model: Jud 220 gal Jud 220 gal Jud 220 gal Jud 2RB-7AR	E.4.2 Available Rams (installe	a & spare)		
Quantity/type/size: no./type/in no./type/i	Quantity/type/size:	no./type/in		
Quantity/itype/size: no./type/in Quantity/type/size: no./type/in Quantity: no. Make/type: E.4.6 Choke Line Valves  Quantity: no. Make/type: Hydraulic/manual: Quantity: no. Make/type: Hydraulic/manual: Quantity: no. Make/type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type80 S/B Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid System working pressure: gal Control manifold model: psi Quantity/type/size: no./type/in Quantity/type/si	uantity/type/size:	no./type/in		
Quantity/type/size: no./type/in Quantity: no. Make/type: Size: in Quantity: no. Make/type: Gasket type: Hydraulic/manual: Quantity: no. Make/type: Size: in Quantity-type/size: no./type/in Quantity-type/size: no./type/size: no./type/size: no./type/size: no./type/size: no./type/size: no./type/size: no./type/size: no./typ	Quantity/type/size:	no./type/in		
Quantity/type/size: no./type/in Quantity- Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: hydraulic/manual: Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: psi Gasket type: hydraulic/manual:  E.5. BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: S/B Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid System working pressure: psi Glycol reservoir capacity: gal Oil/water mix. rate: gals/min Glycol reservoir capacity: gal System working pressure: psi Control manifold model: UD 2RB-7AR  3000 psi UD 2RB-7AR	Quantity/type/size:	no./type/in		
Quantity/type/size: no./type/in Quantity- Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: hydraulic/manual: Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: psi Gasket type: hydraulic/manual:  E.5. BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: S/B Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid System working pressure: psi Glycol reservoir capacity: gal Oil/water mix. rate: gals/min Glycol reservoir capacity: gal System working pressure: psi Control manifold model: UD 2RB-7AR  3000 psi UD 2RB-7AR	Quantity/type/size:	no./type/in		
Quantity/type/size: no./type/in Quantity/type/size: displayed and the provided and the provide				
Quantity/type/size: no./type/in no./type/i				
Quantity/type/size: no./type/in Quantity/type/size: no./type/in no./type/in pressure: no./type/in Quantity/type/size: no./type/in no./type/in Quantity/type/size: no./type/in Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual: Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual: Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual: Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual: Quantity: no. Make/model: Size: in Working pressure: psi Gasket type: Hydraulic/manual: Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual: Quantity: no. Make/model: Size: in Working pressure: psi Gasket type: Hydraulic/manual: Quantity: no. Make/model: Size: in Working pressure: psi Qal Qilwater mix. rate: gals/min gloud pressure: qal Qilwater mix. rate: gals/min gal Glycol reservoir capacity: qal Qilwater mix. rate: gals/min gal System working pressure: psi Qal Qilwater mix. rate: gals/min gal System working pressure: psi Qal Qilwater mix. rate: psi Qal Qilwater mix. rate: gals/min gal System working pressure: psi Qal Qilwater mix. rate: psi Qal Qilwater mix. rate: psi Qal Qilwater mix. rate: gals/min gal System working pressure: psi Qal Qilwater mix. rate: psi Qal Qilwater mix. rate: psi Qal Qilwater mix. rate: qals/min qal Qilwater mix. rate: qal				
Quantity/type/size: no./type/in  E.4.3 BOP Ram Configuration (normal)  Upper: Upper middle: Middle: Middle lower: Lower:  E.4.6 Choke Line Valves  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  Quantity: no. Make/fype: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type80 S/B Main Deck Aft 480 Eliud reservoir capacity: gal Oll/water mix. rate: gals/min Glycol reservoir capacity: gal Oll/water mix. rate: gals/min Glycol reservoir capacity: gal System working pressure: psi Gost type:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: S/B Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid S/B Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid D/D 2RB-7AR				
Upper: Upper middle: Middle: Middle lower: Lower:  E.4.6 Choke Line Valves  Quantity: Make/type: Size: in Working pressure: Gasket type: Hydraulic/manual:  Quantity: Make/type: Size: in Working pressure: Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Location: Fluid reservoir capacity: Fluid reservoir capacity: Glycol reservo	Quantity/type/size:			
Upper middle: Middlei lower: Lower:  E.4.6 Choke Line Valves  Quantity: Make/type: Size: In Working pressure: Gasket type: Hydraulic/manual:  Quantity: Make/type: Size: In Working pressure: Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Location: Fluid reservoir capacity: Gilyol reservoir capacity: Gilyol reservoir capacity: Total accumulator capacity (Wo precharge): System working pressure: gal Oil/water mix. rate: Gilyol reservoir capacity: Total accumulator capacity (Wo precharge): System working pressure: gal System working pressure: psi 3000 psi UD 2RB-7AR  JUD 2RB-7AR	E.4.3 BOP Ram Configuration	(normal)		
Upper middle: Middlei lower: Lower:  E.4.6 Choke Line Valves  Quantity: Make/type: Size: In Working pressure: Gasket type: Hydraulic/manual:  Quantity: Make/type: Size: In Working pressure: Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Location: Fluid reservoir capacity: Gilyol reservoir capacity: Gilyol reservoir capacity: Total accumulator capacity (Wo precharge): System working pressure: gal Oil/water mix. rate: Gilyol reservoir capacity: Total accumulator capacity (Wo precharge): System working pressure: gal System working pressure: psi 3000 psi UD 2RB-7AR  JUD 2RB-7AR	l Innor			
Middle lower: Lower:  E.4.6 Choke Line Valves  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type 8 Type80 S/B Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid System working pressure: pal System working pressure: pal System working pressure: pal System working pressure: pal System working pressure: psi 3000 psi UD 2RB-7AR UD 2RB-7AR				
Middle lower: Lower:  E.4.6 Choke Line Valves  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type 8 Type80 S/B Main Deck Aft S/B				
Lower:  E.4.6 Choke Line Valves  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  Quantity: no. Make/fype: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type 8 Type80 S/B Main Deck Aft 480 A80 A80 A80 A80 A80 A80 A80 A80 A80 A				
E.4.6 Choke Line Valves  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type 80 Type80 S/B Main Deck Aft 480 S/B Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid  Glycol reservoir capacity: gal Coll/water mix. rate: gals/min Glycol reservoir capacity: gal Coll/water mix. rate: gals/min Glycol reservoir capacity: gal Coll/water mix. rate: gals/min Glycol reservoir capacity: gal System working pressure: psi 3000 psi UD 2RB-7AR UD 2RB-7AR				
Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  Quantity: no. Make/type: Hydraulic/manual:  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type80 Type80 S/B Main Deck Aft 480 480 Coli/water mix. rate: gals/min Glycol reservoir capacity: gal Oil/water mix. rate: gals/min Glycol reservoir capacity: gal Cotal accumulator capacity (w/o precharge): gal System working pressure: psi 3000 psi UD 2RB-7AR  Double Size in No. Momey/MB 160-20 Type 80 S/B Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid Size in Noomey/MB 160-20 Type 80 S/B Main Deck Aft 480 Enviro-rite Fluid Size in Noomey/MB 160-20 Type 80 Size in Noomey/MB 160-20 Size in Noomey/	Lower.			
Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type80 S/B Main Deck Aft Fluid reservoir capacity: gal Oil/water mix. rate: gals/min Glycol reservoir capacity: gal Could accumulator capacity (w/o precharge): gal System working pressure: psi 3000 psi UD 2RB-7AR  In Make/MB 160-20 Koomey/MB 160-20 Type 8 S/B Main Deck Aft Fluid Control mix of the Fluid Enviro-rite Fluid System working pressure: psi 3000 psi UD 2RB-7AR	E.4.6 Choke Line Valves			
Size: in Working pressure: psi Gasket type: Hydraulic/manual: Unit Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual: Working pressure: psi Gasket type: Hydraulic/manual: Working pressure: psi Gasket type: Hydraulic/manual: Working pressure: Phydraulic/manual: Working pressure: psi Gasket type: Hydraulic/manual: Woomey/MB 160-20 Type 8 Type80 S/B Main Deck Aft S/B M	Quantity:	no.		
Working pressure: psi Gasket type: Hydraulic/manual:  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type 8 Type80 S/B Main Deck Aft S/B Main Deck Aft 480 480 Enviro-rite Fluid Enviro-rite Fluid Enviro-rite Fluid System working pressure: psi System working pressure: psi System working pressure: psi Gasket type: In Koomey/MB 160-20 Type 8 SyB Main Deck Aft A80 Enviro-rite Fluid System working pressure: psi System work				
Gasket type: Hydraulic/manual:  Quantity: no. Make/type: Size: in Working pressure: Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type 8 Type80 Location: S/B Main Deck Aft 480 Cil/water mix. rate: gals/min Glycol reservoir capacity: gal Cil/water mix. rate: gals/min Glycol reservoir capacity: gal (w/o precharge): gal System working pressure: psi 3000 psi UD 2RB-7AR  Working pressure: gals/min Glycol reservoir capacity: gal Control manifold model: UD 2RB-7AR				
Hydraulic/manual:  Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type 8 Type80 S/B Main Deck Aft 480 480 Coll/water mix. rate: gals/min Glycol reservoir capacity: gal Glycol reservoir capacity: gal (W/o precharge): gal System working pressure: psi Control manifold model: UD 2RB-7AR  No.  Koomey/MB 160-20 Type 8 Toomey/MB 160-20 Type 8 SyB Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid 220 gal 3000 psi UD 2RB-7AR		psi		
Quantity: no. Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type 80 Type80 S/B Main Deck Aft 480 Enviro-rite Fluid Enviro-r				
Make/type: Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type80 Location: S/B Main Deck Aft 480 S/B Main Deck Aft 480 Silvater mix. rate: gals/min Glycol reservoir capacity: gal Glycol reservoir capacity: gal Total accumulator capacity (w/o precharge): gal System working pressure: psi Control manifold model: JOOD SYSTEM  Koomey/MB 160-20 Type80 S/B Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid 220 gal 3000 psi UD 2RB-7AR UD 2RB-7AR	Hydraulic/manual:			
Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type 8 Type80  Location: S/B Main Deck Aft Fluid reservoir capacity: gal Oil/water mix. rate: gals/min Glycol reservoir capacity: gal Total accumulator capacity (w/o precharge): gal System working pressure: psi Control manifold model: June 200 June 2	Quantity:	no.		
Size: in Working pressure: psi Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Koomey/MB 160-20 Type 8 Type80  Location: S/B Main Deck Aft Fluid reservoir capacity: gal Oil/water mix. rate: gals/min Glycol reservoir capacity: gal Total accumulator capacity (w/o precharge): gal System working pressure: psi Control manifold model: June 200 June 2	Make/type:			
Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Location: Fluid reservoir capacity: Oil/water mix. rate: Glycol reservoir capacity: Total accumulator capacity (w/o precharge):  System working pressure: Control manifold model:  E.5.1 Accumulator Unit  Koomey/MB 160-20 Type 8  Koomey/MB 160-20 Type 8  SyB Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid 220 gal 220 gal 3000 psi UD 2RB-7AR	Size:	in		
Gasket type: Hydraulic/manual:  E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model: Location: Fluid reservoir capacity: Oil/water mix. rate: Glycol reservoir capacity: Total accumulator capacity (w/o precharge):  System working pressure: Control manifold model:  E.5.1 Accumulator Unit  Koomey/MB 160-20 Type 8  Koomey/MB 160-20 Type 8  SyB Main Deck Aft 480 Enviro-rite Fluid Enviro-rite Fluid 220 gal 220 gal 3000 psi UD 2RB-7AR	Working pressure:	psi		
E.5 BOP CONTROL SYSTEM  E.5.1 Accumulator Unit  Make/model:  Location: Fluid reservoir capacity: Oil/water mix. rate: Glycol reservoir capacity: Glycol reservoir capacity: (w/o precharge):  System working pressure: Control manifold model:  Koomey/MB 160-20 Type 8  SyB Main Deck Aft 480 Enviro-rite Fluid 220 gal 220 gal 3000 psi UD 2RB-7AR  UD 2RB-7AR	Gasket type:	•		
E.5.1 Accumulator Unit  Make/model:  Location: Fluid reservoir capacity: Oil/water mix. rate: Glycol reservoir capacity: Total accumulator capacity (w/o precharge):  System working pressure: Control manifold model:  Koomey/MB 160-20 Type 8  Koomey/MB 160-20 Type 8  S/B Main Deck Aft 480 Enviro-rite Fluid  Enviro-rite Fluid 220 gal 3000 psi UD 2RB-7AR	Hydraulic/manual:			
E.5.1 Accumulator Unit  Make/model:  Location: Fluid reservoir capacity: Oil/water mix. rate: Glycol reservoir capacity: Total accumulator capacity (w/o precharge):  System working pressure: Control manifold model:  Koomey/MB 160-20 Type 8  Koomey/MB 160-20 Type 8  S/B Main Deck Aft 480 Enviro-rite Fluid  Enviro-rite Fluid 220 gal 3000 psi UD 2RB-7AR	E 5 ROP CONTROL SYSTEM	1		
Make/model:  Location:  Fluid reservoir capacity:  Oil/water mix. rate:  Glycol reservoir capacity:  Total accumulator capacity  (w/o precharge):  Syman Deck Aft  480  Enviro-rite Fluid  Enviro-rite Fluid  220 gal  220 gal  System working pressure:  Control manifold model:  Koomey/MB 160-20 Type 8  S/B Main Deck Aft  480  Enviro-rite Fluid  220 gal  3000 psi  UD 2RB-7AR		•		
Type80 Location: Fluid reservoir capacity:  Oil/water mix. rate:  Glycol reservoir capacity:  Total accumulator capacity  (w/o precharge):  Sym Main Deck Aft  480 Enviro-rite Fluid  Enviro-rite Fluid  220 gal  220 gal  220 gal  System working pressure:  Control manifold model:  Type80  S/B Main Deck Aft  480 Enviro-rite Fluid  220 gal  220 gal  220 gal  UD 2RB-7AR			K/MD 400 00	
Fluid reservoir capacity:  Oil/water mix. rate:  Glycol reservoir capacity:  Total accumulator capacity  (w/o precharge):  System working pressure:  Control manifold model:  gal  480  Enviro-rite Fluid  220 gal  220 gal  220 gal  3000 psi  UD 2RB-7AR  UD 2RB-7AR			Type80	
Oil/water mix. rate:  Glycol reservoir capacity: Total accumulator capacity (w/o precharge):  System working pressure: Control manifold model:  gals/min Enviro-rite Fluid  220 gal  220 gal  3000 psi UD 2RB-7AR  Enviro-rite Fluid  3000 psi UD 2RB-7AR	Location:			
Glycol reservoir capacity: Total accumulator capacity (w/o precharge):  System working pressure: Control manifold model:  gal  220 gal  220 gal  220 gal  3000 psi UD 2RB-7AR  UD 2RB-7AR	Fluid reservoir capacity:			
Total accumulator capacity (w/o precharge):  System working pressure: Control manifold model:  220 gal  220 gal  3000 psi UD 2RB-7AR  UD 2RB-7AR	Oil/water mix. rate:	gals/min	Enviro-rite Fluid	Enviro-rite Fluid
(w/o precharge):galSystem working pressure:psi3000 psi3000 psiControl manifold model:UD 2RB-7ARUD 2RB-7AR	Glycol reservoir capacity:	gal		
System working pressure: psi 3000 psi 3000 psi UD 2RB-7AR UD 2RB-7AR	Total accumulator capacity		220 gal	220 gal
System working pressure: psi 3000 psi 3000 psi UD 2RB-7AR UD 2RB-7AR		gal		
Control manifold model: UD 2RB-7AR UD 2RB-7AR	System working pressure:	nei	3000 psi	3000 psi
		рэг		
Redulator type. I Manual and Phetimatic — I Manual and Phetimatic	Regulator type:		Manual and Pneumatic	Manual and Pneumatic

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Total useful accumulator volume		Yes	Yes
equals all preventer opening			
and closing volumes:	yes/no		
plus percent additional volume:	%	50%	50
E.5.2 Accumulator Hydraulic Pumps			
Electric Driven:			
Quantity:	no.	1 ea.	1 ea
Make/model:		Koomey / TRIPLEX	Koomey triplex/ UET-20B
Each driven by motor of power:	, hp	20 hp	20 hp
Flow rate of each pump:	gals/min	8.7 gal/min	8.7 gals/min.
At operating pressure:	psi	3,000 psi	3000 psi
Operable off emergency generator:	yes/no	Yes	Yes
Air Driven:			
Quantity:	no.	2 ea.	2 ea
Make/model:		Koomey / 60 : 1 RATIO	Koomey / Big Sixty 60:1
Flow rate of each pump:	gals/min	6.4 gal/min	6 gpm
AT operating pressure:	psi	90 psi	100 psi
E.5.3 Primary Control Panel			
Control panel make/model:		Koomey	Koomey
Location:		On S/B main deck	On S/B Main deck Aft.
Panel controls for the following functions:	,		
All annular BOP's:	yes/no	Yes	Yes
All ram BOP's:	yes/no	Yes	Yes
Lock for ram BOP's:	yes/no	No	No
Diverter system:	yes/no	Yes	Yes
Kill and choke line valves:	yes/no	Yes	Yes
Low accumulator pressure warning:	yes/no	Yes	No
Low reservoir level warning:	yes/no	Yes	Yes
Low rig air pressure warning:	yes/no	Yes	Yes
System pressure regulator:	yes/no	Yes	Yes
Pressure regulator for annular:	yes/no	Yes	Yes
Flow meter:	yes/no	No	No
Quantity of pressure gauges: Other control functions:	no. yes/no	4	4
Other control functions.	yes/no		
E.5.4 Remote Control Panels			
Make/model:		KOOMEY /	KOOMEY / Pneumatic
Location:		Driller's Shelter	Driller's Shelter
Location:		Main deck	Main Deck S/B forward
Location:			
Ability to operate main closing unit:			
valves directly:	yes/no	Yes	yes
System routing (direct or through panel):	<i>y</i> = =====		ľ
Remote control of - system pressure			
regulator:	yes/no	Yes	yes
Remote control of - annular pressure	<i>y</i>		
regulator:	yes/no	Yes	yes
E.6 CHOKE MANIFOLD			
	yes/no	Yes	

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
E.6.1 Choke Manifold (for instrumentation, See H.3)			
Nominal size:	in	3 1/8	3 1/8
Minimum ID:	in	2-1/16	
Maximum WP:	psi	10,000 psi	10,000 psi
Quantity of fixed chokes:  Make/model:	no.		
Size	in		
Make/model:			
Size:	in		
Quantity of adjustable chokes:	no.		
Make/model:	:		
Size Make/model:	in		
Size (ID):	in		
· ,		F	5
Quantity		5 ea.Valves 10k psi	5ea Valves 10K psi
Make/model: Size (ID):	in	Cameron / Manual 2-1/16 in	Cameron / Manual 2-1/16"
312e (1D).	""	2-1/10 111	2-1/10
Make/model:		2ea valves 10k psi	2ea valves 10k psi
Size (ID):	in	4 1/16	4 1/16
Quantity		6 ea.Valves 10k psi	6 ea.Valves 10k psi
Make/model:		Cameron / Manual	Cameron / Manual
Size (ID):	in	3-1/16 in	3-1/16 in
Quantity		5ea valves 10 k psi	5ea valves 10 k psi
Make/model:		Cameron / Manual	Cameron / Manual
Size (ID):	in	3 1/8	3 1/8
Power choke remote control panel:	yes/no	yes	yes
Make/model:	•	Cameron super choke	Cameron super choke
Location:		RIG FLOOR	Rig floor
Glycol injection:	yes/no	No	No
E.7 FLEXIBLE CHOKE & KILL LINES (BOP to MANIFOLD)			
Quantity:	no.	2ea.Choke Line	2 ea Choke line
Make/type:		Rubber Wire Braided	/ rubber wire braided
ID:	in	3 in	3"
Working pressure:	psi	10,000 psi	10,000psi
H2S service:	yes/no	Yes	yes
Quantity:	no.	2 ea. Kill Line	2 ea Kill line
Make/type:		Rubber Wire Braided	/ rubber wire braided
ID:	in	2 in	2"
Working pressure:	psi	10,000 psi	10,000 psi
H2S service:	yes/no	Yes	yes

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
E.8 FLEXIBLE BOP CONTROL HOSES			
Quantity: Make/type: ID: Working pressure: Fire resistant:	no. in psi yes/no	12 ea. Armored steel 1 in 3,000 psi Yes	12 ea. Armored steel 1 in 3,000 psi Yes
Quantity: Make/type: ID: Working pressure: Fire resistant:	no. in psi yes/no		
E.9 BOP TESTING EQUIPMENT			
E.9.1 Hydraulic BOP Test Pump			
Make/model: Type: Pressure rating: Chart recorder:	psi yes/no	CAD / 15K Air operated 15,000 psi Yes	CAD / 15K Air operated 15,000 psi Yes
E.9.2 BOP Test Stump			
Size: Size: Size:	in in in		NO
E.10 BOP HANDLING		yes	Yes
E.10.1 BOP Hoist System			
Make/type: Quantity of hoists: Number of lift point on BOP: System safe working load (max BOP wt):	no. no. st	Ingersoll-Rand/ Hercu-link 2 ea 2 37.5 ton each unit	Ingersoll-Rand/ Hercu-link 2 ea 2 37.5 ton each unit
E.10.2 Work Platforms			
BOP work platform (adjustable/fixed/none): Conductor pipe platform:	yes/no	Texas Deck None	Texas Deck None
E.10.3 Conductor Pipe Tensioning System			
Make/type: Tension capacity: Number of lift points: Stroke: F. MUD SYSTEM/BULK SYSTEM	st no. in		
F.1 HIGH PRESSURE MUD SYSTEM			
System working pressure: System test pressure:	psi psi	5000 7,500	5,000 7,500
F.1.1 Mud Pumps			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Quantity:	no.	2 ea	2 ea
Make:			Continental Emsco
Model:			FB 1600
Type: (Triplex/Duplex):		Triplex	Triplex
Liner sizes available:	in	5 ½", 6", 6-1/2", 7"	5-1/2",6",6-1/2" ,7"
Mud pump drive motors/pump:	no.	2	2
Motor type: Continuous power rating per motor:		750 hp	EMD D79 MB6 750 hp
Fluid end type:	hp	·	·
Maximum working pressure:	psi	5000 psi	5000 psi
Test pressure:	psi	7,500 psi.	7,500 psi.
Pump stroke counter type:		Magnetic switch noncontact	Magnetic switch non contact
Supercharging pump:		Yes	Yes
Driven by motor of power:	hp	40 hp	40 hp
Discharge/Suction line ID: in/in		4"/ 4"	4"/ 4"
Mud pump pulsation dampener type:		Hydril	Hydril
Reset Relief Valve type:		Retsco type C	Retsco type C
Working flow rate per pump at 90% of n	•		
Liner size:	in		
Pump speed (90% of max.):	spm		
Pump pressure:	psi		
Working flow rate:	U.S. gal/min		
Quantity:	no.		
Make:			
Model:			
Type: (Triplex/Duplex):			
Liner sizes available:	in		
Mud pump drive motors/pump:	no.		
Motor type:			
Continuous power rating per motor:	hp		
Fluid end type:			
Maximum working pressure:	psi		
Test pressure:	psi		
Pump stroke counter type:			
Supercharging pump:			
Driven by motor of power:	hp		
Discharge/Suction line ID:	in/in		
Mud pump. pulsation dampener type:			
Reset relief valve type:			
Working flow rate per pump at 90% of n	nax spm:		
Liner size:	in		
Pump speed (90% of max.):	spm		
Pump pressure:	psi		
	U.S. gal/min		
F.1.2 Transfer Pumps/Mixing Pump	os		
Mixing / Transfer Pumps			
Quantity:	no.	2 ea	2 ea
Make/model:		Halco	Halco
Type/Size		Centrifugal/ 6X8X14	Centrifugal/ 6X8X14
Output Capacity:	gpm	1200	1200
Drive motor type:	OI:	Electric	Electric
Power output:	hp	75 hp	75 hp
Gel Tank Pumps			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Quantity:	no.		
Make/model:			
Type/size:			
Output capacity:	gpm		
Drive motor type:	95		
Power output:	hp		
·	пр		
F.1.3 Booster / Charging Pump			
Quantity:	no.	2 ea	2 ea
Make/Mode:		Halco	Halco
Type/Size		Centrifugal / 4X6X14	Centrifugal / 4X6X14
Capacity (each):	gals/min	1200	1200
Drive motor type:		Electric	Electric
Power output:	hp	40 hp	40 hp
F.1.4 Standpipe Manifold		Yes	
Quantity of standpipes:	no.	2 ea.	2 ea
Standpipe/ID:	in	4" ID / 3 " ID /2" ID	4" ID / 3 " ID /2" ID
H-Type standpipe manifold:	yes/no	Yes	yes
Kill line outlet:	yes/no	Yes	yes
Fill-up line outlet:	yes/no	Yes	yes
Bleed-off line outlet:	yes/no	Yes	yes
bleed-off life oddet.	y <del>c</del> 3/110	163	yes
F. 1.5 Rotary Hoses		Yes	Yes
Quantity:	no.	2 ea.	2 ea.
Make/type:		Cooper States/Gates	Cooper States/Gates
ID x length:	in x ft	3 ½ in X 75 ft	3 ½ in X 75 ft
Working pressure:	psi	5000psi W/Px 10000psi T/P	5000psi W/Px 10000psi T/P
Snubbing lines:	yes/no	Yes	yes
Quantity:	no.	2ea	2ea
Make/type:	110.	Cooper States	Cooper States
ID x length:	in x ft	3 ½ inX65ft	3 ½ inX65ft
		5000psi W/Px 10000psi T/P	5000psi W/Px 10000psi T/P
Working pressure: Snubbing lines:	psi yes/no	Yes	Yes
F.1.6 Cementing Hose		Yes	Yes
Quantity:	no.	2 ea.	2ea.
Type (armor sheath/flexible steel pipe):	110.		
	ft	Cooper States	Cooper States
Length:	ft	65 ft	65 ft
ID:	in :	3 in	3"
Working pressure:	psi	7500 psi W/P x15,000 psiT/P	7500 psi W/P x15,000 psiT/P
Quantity:	no.	1ea	1ea
Type (armor sheath/flexible steel pipe):			
_ength:	ft	50ft	50ft
D:	in	2 ½ in	2 ½ in
Working pressure:	psi	10000psi	10000psi
F.1.7 High Pressure Flexible Steel Pipe			
Make/type:			Anson
макелуре. Integral connections/fittings (non-threaded):	vecho	Yes	
• • • • • • • • • • • • • • • • • • • •		1 63	yes
D:	in		1 3/4"

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Working pressure:	psi	10,000 psi	10,000 psi
Section length:	ft	2 ea 6'	2 ea 6'
Quantity:	no.	6 ea 12'	6 ea 12'
Section length:	ft	2 ea 10'	2 ea 10'
Quantity:	no.	2 64 10	2 64 10
	110.	2" wood fig 1502	O" Angon
Sweep swivels, make/type:	•	2" weco fig 1502	2" Anson
Nom. size ID:	, in	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Suitable for H2S service:	yes/no	Yes	yes
F.2 LOW PRESSURE MUD SYSTEM			
F.2.1 Mud Processing Tank		Yes	Total 252 bbl
Shaker #1 tank, usable volume:	bbl	88 bbl	88 bbl
Shaker #2 tank, usable volume:	bbl	88 bbl	88 bbl
Agitated:	yes/no	No	No
Shaker #3 tank, usable volume:	bbl	N.	
Agitated:	yes/no	No	
Shaker #4 tank, usable volume:	bbl	1	
Agitated:	yes/no	No	
Shaker #5 tank, usable volume:	bbl		
Agitated:	yes/no	No	
Centrifuge tank, usable volume:	bbl		
Agitated:	yes/no	No	
Other tank, usable volume:	bbl		
Agitated:	yes/no	No	
Total usable capacity:			
F.2.2 Mud Tanks		Yes	
0 111			
Quantity:	no.	4	4
Total capacity (usable):	bbl	1,549 bbl	1,549 bbl
Usable capacity No. 1:	bbl	565 bbl	565 bbl
Type (active/reserve):	DDI	303 881	303 881
,			
Height:	ft	8 ft	8 ft
Mixer:	yes/no	Yes	Yes
Mud guns:	yes/no	Yes	Yes
Usable capacity No. 2:	bbl	315 bbl	315 bbl
Type (active/reserve):			
Height:	ft	8 ft	8 ft
Mixer:	yes/no	Yes	Yes
Mud guns:	yes/no	Yes	Yes
Usable capacity No. 3:	bbl	565 bbl	565 bbl
Type (active/reserve):			
Height:	ft	8 ft	8 ft
Mixer:	yes/no	Yes	Yes
Mud guns:	yes/no yes/no	Yes	Yes
Usable capacity No. 4:	bbl	104	104
	וטט	107	107
Type (active/reserve):	#	8 ft	8 ft
Height:	ft		
Mixer:	yes/no	Yes	Yes
Mud guns:	yes/no	Yes	Yes
Usable capacity No. 5:	bbl	104	104
Type (active/reserve):	_		
Height:	ft		
Mixer:	yes/no		
Mud guns:	yes/no		
Usable capacity No. 6:	bbl		

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Type (active/reserve):			
Height:	ft		
Mixer:	yes/no		
Mud guns:	yes/no		
Usable capacity No. 7:	bbl		
Type (active/reserve):			
Height:	ft		
Mixer:	yes/no		
Mud guns:	yes/no		
Usable capacity No. 8:	bbl		
Type (active/reserve):			
Height:	ft		
Mixer:	yes/no		
Mud guns:	yes/no		
F.2.3 Pill/Slug Tank			
Capacity (usable):	bbl	104 bbl	104 bbl
Mud agitator:	yes/no	Yes	Yes
Mud guns:	yes/no	Yes	Yes
Capacity (usable):	bbl		
Mud agitator:	yes/no		
Mud guns:	yes/no		
F.2.4 Trip/Stripping Tanks		Trip tank	
Capacity (usable):	bbl	72 bbl	72 bbl
Capacity/foot:	bbl/ft		
Level indicator:	yes/no	Yes	Yes
Electric pump make:	,	Mission	Mission
Model/type:		3 x 2 x 7.5"	3 x 2 x 7.5"
Rated capacity:	hp	10 hp 1735 rpm	10 hp 1735 rpm
Facility for casing fill-up:	yes/no	Yes	Yes
Alarm and strip chart recorder:	yes/no	Yes	Yes
Capacity (usable):	bbl		
Capacity (usable). Capacity/foot:	bbl/ft		
Level indicator:	yes/no		
Electric pump make:			
Model/type:			
Rated capacity:	hp		
Facility for casing fill-up:	yes/no		
Alarm and strip chart recorder:	yes/no		
F.2.5 Chemical Mixing Tank			
Capacity (usable):	bbl	0.84	0.84
Chemical mixer type:		Manual	Manual
F.2.6 Shale Shakers			
Primary:			
Quantity:	no.	3 each ADOC	3 each ADOC
Make/model:		Swaco	Swaco
Type:		Single unit	Single unit
Nominal flow rate (total):	bbl/min	1200	1200
Quantity:	no.		
additity.	110.	į –	1

SPECIFICATION / DESCRIPTIONS	3	Requirement	Tenderer Specifications Offered
Make/model:			
Type:			
Nominal flow rate (total):	bbl/min		
Cascading:			
Quantity:	no.		
Make/model:			
Type:			
Nominal flow rate (total):	bbl/min		
Quantity:	no.		
Make/model:			
Type: Nominal flow rate (total):	bbl/min		
F.2.7 Desander		No	NO
0			
Quantity:	no.		
Make/model:			
Type: Number of cones x size:	no. x in		
Centrifugal pump type:	110. A 111		
Centrifugal pump size:	in x in		
Driven by electric motor of:	hp		
Is pump dedicated to desander:	yes/no		
Max. flow rate:	bbl/min		
F.2.8 Desilter		No	No
Quantity:	no.		
Make/model:			
Type:			
Number of cones x size:	no. x in		
Centrifugal pump type:			
Centrufugal pump size:	in x in		
Driven by electric motor of:	hp		
Is pump dedicated to desilter: Max. flow rate:	yes/no bbl/min		
F.2.9 Mud Cleaner			
Quantity:	no.	No	NO
Make/model:			
Type:			
Nominal flow rate:	bbl/min		
Number of cones:	no.		
Size:	in		
Feed pump make/model: Type/size:			
Capacity:	gpm		
Drive motor hp:	gpiii hp		
Is pump dedicated to mud cleaner:	yes/no		
Quantity:	no.		
Make/model:	110.		
Type:			
Nominal flow rate:	bbl/min		
Number of cones:	no.		

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Size:	in		
Feed pump make/model:			
Type/size:			
Capacity:	gpm		
Drive motor hp:	hp ,		
Is pump dedicated to mud cleaner:	yes/no		
F.2.10 Mud/Gas Separator (Poor Boy)		Yes	
Make/type:	<u>.</u> .		Contech/ Baffle plate
Dimensions (height x OD):	ft x in	20ft x 5ft	20ftx5ft
Gas discharge line ID:	in	8"	8"
Gas discharge location, primary:		Top of derrick	Top of derrick
Can discharge be tied into burner system:	yes/no	Yes	
Vacuum breaker:	yes/no	Yes	
Mud seal height:	ft	10 ft	
Pressure gauge:	yes/no	Yes	
Make/type:	<b>.</b>		
Dimensions (height x OD):	ft x in		
Gas discharge line ID:	in		
Gas discharge location, primary:			
Can discharge be tied into burner system:	yes/no		
Vacuum breaker:	yes/no		
Mud seal height:	. ft		
Pressure gauge:	yes/no		
Calculated gas throughput:	mmscf		
F.2.11 Degasser			
Make/type:		Contech/ vacuum	Contech/ vacuum
Nominal flow rate:	bbl/min	25 bbl	25 bbl
Feed pump make/model:		Mission / 6 X 5	Mission / 6 X 5
Type/size:		Centrifugal 6X5X14	Centrifugal 6X5X14
Capacity:	gpm	1200 gpm	1200 gpm
Drive motor hp:	hp	100	100
Is pump dedicated to degasser:	yes/no	Yes	Yes
Vacuum pump make type:		Ingersoll-Rand/ reciprocating	Ingersoll-Rand/ reciprocating
Make/type:	6.1.27 ·		
Nominal flow rate:	bbl/min		
Feed pump make/model:			
Type/size:			
Capacity:	gpm		
Drive motor hp:	hp		
Is pump dedicated to degasser: Vacuum pump make type:	yes/no		
F.2.12 Mud Agitators		Yes	
-		162	
Quantity:	no.	4 ea	4 ea
Make/model:		Brandt/ MA20	Brandt/ MA20
Driven by motor of power:	hp	20HP	20HP
Located in tanks:	·	1 & 3	1 & 3
0			
Quantity:	no.	1 ea	1 ea
Make/model:		Brandt MA5	Brandt MA5
Driven by motor of power:	hp	5HP	5HP

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Located in tanks: (see F.2.1 and F.2.2 for tank designati	ons)	Slug pit	Slug pit
Quantity: Make/model:	no.	1 each Brandt/ MA25	1 each Brandt/ MA25
Driven by motor of power:	hp	25 hp	25 hp
Located in tanks:  (see F.2.1 and F.2.2 for tank designati	·	2	2
Quantity: Make/model:	no.		
Driven by motor of power: Located in tanks:	hp		
(see F.2.1 and F.2.2 for tank designati	ons)		
F.2.13 Mud Centrifuge		No	
Quantity:	no.		Swaco Third party
Make/model:			
Feed pump make/model:			
Type/size: Capacity:	bbl/min		
Drive motor hp:	hp		
Is feed pump dedicated to centrifuge(s)	yes/no		
Quantity:	no.		
Make/model: Feed pump make/model:			
Type/size:			
Capacity:	bbl/min		
Drive motor hp:	hp		
Is feed pump dedicated to centrifuge(s)	yes/no		
F.2.14 Mud Laboratory And Facilities			
Separate room: Equipped with:	yes/no	Yes	Yes
Mud balance:	yes/no	YES	Yes
Marsh funnel:	yes/no	YES	Yes
Filtration kit:	yes/no	Yes	Yes
Sand content kit:	yes/no	YES	Yes
Air Conditioning:	yes/no	Yes	Yes
Positive pressure:	yes/no	Yes	Yes
F.3 BULK SYSTEM			
F.3.1 Barite/Bentonite Silos		Yes	yes
Quantity:	no.	400 40 4 400 500	3 ea
Capacity of each silo:	ft3	1333 ft3 ( 4000 ft3 total )	1333 ft3 ( 4000 ft3 total )
Locations:		S/B side Main deck	S/B side Main deck
Type weight loadcell:  Manufacturer:		Yes Martin Decker	Yes Martin Decker
Pressure rating:	psi	Martin Decker	Martin Decker 40
Relief valve(s) installed:	yes/no	Yes	Yes
Quantity:	no.		
Capacity of each silo:	ft3		
Locations:			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Type weight load cell:			
Manufacturer:	•		
Pressure rating:	psi		
Relief valve(s) installed:	yes/no		
F.3.2 Cement Silos		Yes	
Quantity:	no.	3 ea	3 ea
Capacity of each silo:	ft3	1333 ft3 ( 4000 ft3 total )	1333 ft3 ( 4000 ft3 total )
Locations:		Portside Main Deck	Portside Main Deck
Type weight loadcell:		Yes	Yes
Manufacturer:		Martin decker	Martin decker
Pressure rating:	psi	40 PSI	40 PSI
Relief valve(s) installed:	yes/no	YES	YES
Quantity:	no.		
Capacity of each silo:	ft3		
Locations:			
Type weight load cell:			
Manufacturer:			
Pressure rating:	psi		
Relief valve(s) installed:	yes/no		
Separate mud/cement loading facilities:	yes/no	Yes	
Cement discharge independent from		Yes	
barite/bentonite:	yes/no		
F.3.3 Surge Tank For Barite/Bentonite		Yes	
		Meng Fatt	Meng Fatt
Quantity:	no.	1 ea	1 ea
Capacity of each tank:	ft3	45 ft3.	45 ft3.
Type weight load cell:		Yes	Yes
Manufacturer:		Martin Decker	Martin Decker
Pressure rating:	psi	40 psi	40 psi
Relief valve(s) installed:	yes/no	Yes	Yes
F.3.4 Mud Hopper		Yes	
Quantity:	no.	2 ea.	3 ea.
Make/model:		Swaco SW800	Swaco SW800
Feed pump make/model:		Halco	Halco
Type/size:	1.1.172	Centrifugal 6X8X14	Centrifugal 6X8X14
Capacity:	bbl/min	1200 GPM	1200 GPM
Drive motor hp:	hp	75 hp	75 hp
Is feed pump dedicated to mud hopper(s):	yes/no	Yes	Yes
F.3.5 Shear Jet			
Quantity:	no.		
Make/model:			
Feed pump make/model:			
Type/size:			
Capacity:	bbl/min	<b> </b>	
F.3.6 Surge Tank For Cement		No	
Quantity:	no.		
Capacity of each tank:	ft3		
Type weight load cell:	110		
Typo woight load ooil.			l .

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
Manufacturer:		
Pressure rating: psi		
Relief valve(s) installed: yes/no		
F.3.7 Bulk Transfer System (see also C.1.7 - Compressed Air Systems)		
Independent air system for the silos and surge		No
Tanks consisting of a high-volume low-		140
Pressure compressor and air drier: yes/no	,	
Air reduced from main air supply through	Yes	Yes
Pressure regulators: yes/no		
Separate volume tank and drier: yes/no	1	No
G. CASING/CEMENTING EQUIPMENT		
G.1 CASING EQUIPMENT		
G.1.1 Drive Hammer		
Make/type:		None
Minimum casing/conductor OD:	No	Tions
-		
G.1.2 API Casing Drifts	No	
For casing OD, weight, quantity: in/lbs/ft/no.		3 ea for 18 5/8" casing
For casing OD, weight, quantity: in/lbs/ft/no.		2 ea for 13 3/8" casing
For casing OD, weight, quantity: in/lbs/ft/no.		4 ea for 9 5/8" casing
For casing OD, weight, quantity: in/lbs/ft/no.		2 ea for 7" casing
For casing OD, weight, quantity: in/lbs/ft/no.		1 ea 8" OD drift.
For casing OD, weight, quantity: in/lbs/ft/no.		
G.1.3 Clamp-On Casing Thread Protectors		
For casing OD, quantity: in/no.	No	NO
For casing OD, quantity: in/no.		Weatherford supply.
For casing OD, quantity: in/no.		
For casing OD, quantity: in/no.		
For casing OD, quantity: in/no.		
For casing OD, quantity: in/no.		
G.1.4 Side Door Casing Elevator	Yes	
Quantity: no.	1	1
For OD casing:	20"	20"
Make/type:	Varco BJ / SLX	Varco BJ / SLX
Capacity: st	150 T	150 T
Quantity: no.	1 ea	1 ea
For OD casing:	13-3/8 in	13-3/8 in
Make/type:	Varco BJ / SLX	Varco BJ / SLX
Capacity: st	150T	150T
Quantity: no.	1 ea	1 ea
For OD casing:	9-5/8 in	9-5/8 in
Make/type:	Varco BJ / SLX	Varco BJ / SLX
Capacity: st	150T	150T

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Quantity:	no.	1 ea	1 ea
For OD casing:	in	7"	7"
Make/type:		Varco BJ / SLX	Varco BJ / SLX
Capacity:	st	150T	150T
Quantity:	no.		
For OD casing:	in		
Make/type:			
Capacity:	st		
Quantity:	no.		
For OD casing:	in		
Make/type:			
Capacity:	st		
G.1.5 Single Joint Casing Elevators		Yes	
Quantity:	no.	1 ea.	1 ea.
For OD casing:	in	20"	20"
Make/type:		Varco / SJ	Varco / SJ
Quantity:	no.	1 ea	1 ea
For OD casing:	in	13-3/8 in	13-3/8 in
Make/type:	11.1	VARCO / SJ	VARCO / SJ
wake/type.		VARCO / 33	VARCO / 33
Quantity:	no.	1 ea	1 ea
For OD casing:	in	9-5/8 in	9-5/8 in
Make/type:		Varco / SJ	Varco / SJ
Quantity:	no.	1 ea	1 ea
For OD casing:	in	7"	7"
Make/type:		Varco / SJ	Varco / SJ
Quantity:	no.		
For OD casing:	in		
Make/type:			
Quantity:	no.		
For OD casing:	in		
Make/type:	""		
G.1.6 Slip Type Elevator/Spiders			
Quantity:	no.	1	1
Make/type:		Varco	Varco
Pneumatic/manual:		Pneumatic	Pneumatic
Capacity:	st	350	350
Slips for OD casing sizes:	in	13-3/8"	13-3/8"
Quantity:	no.		
Make/type:	110.	Varco 350T	Varco 350T
Pneumatic/manual:		Pneumatic	Pneumatic
Capacity:	st	350	350
Slips for OD casing sizes:	in	9-5/8"	9-5/8"
Quantity:	no.		
Quantity. Make/type:	110.	Varco 350T	Varco 350T
Pneumatic/manual:		Pneumatic	Pneumatic

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Capacity:	st	350	350
Slips for OD casing sizes:	in	7" / 7-5/8"	7" / 7-5/8"
G.1.7 Casing Slips			
Quantity:	no.	1 ea	1 ea
Make/type:		Varco BJ / CMS-XL	Varco BJ / CMS-XL
For OD casing:	in	20"	20"
Quantity:	no.	1ea	1ea
Make/type:		Varco BJ / CMS-XL	Varco BJ / CMS-XL
For OD casing:	in	13 3/8"	13 3/8"
Quantity:	no.	1 ea	1 ea
Make/type:		Varco BJ / CMS-XL	Varco BJ / CMS-XL
For OD casing:	in	9 5/8"	9 5/8"
Quantity:	no.	1 ea	1 ea
Make/type:		Varco BJ / CMS-XL	Varco BJ / CMS-XL
For OD casing:	in	7" and 7-5/8"	7" and 7-5/8"
G.1.8 Casing Bowls			
Quantity:	no.	1 ea	1 ea
Make/type:		Varco	Varco
For OD casing (max/min):	in/in	20"	20"
Quantity:	no.	1 ea	1 ea
Make/type:		Varco	Varco
For OD casing (max/min):	in/in	11 ¾" – 13 3/8"	11 3/4" – 13 3/8"
Quantity:	no.	1 ea	1 ea
Make/type:		Varco	Varco
For OD casing (max/min):	in/in	9 5/8" – 10 ¾"	9 5/8" – 10 3/4"
Quantity:	no.	1 ea	1 ea
Make/type:		Varco	Varco
For OD casing (max/min):	in/in	2 3/8" – 8 5/8"	2 3/8" – 8 5/8"
G.1.9 Manual Casing Tongs			
Quantity (sets):	no.	2 ea	2 ea
Make/type:		Web Wilson/ AXX	Web Wilson/ AXX
W/jaws for OD casing (max/min):	in/in	7" – 20"	7" – 20"
Quantity (sets):	no.		
Make/type:			
W/jaws for OD casing (max/min):	in/in		
Quantity (sets):	no.		
Make/type:			
W/jaws for OD casing (max/min):	in/in		
Quantity (sets):	no.		
Make/type:			
W/jaws for OD casing (max/min):	in/in		
G.1.10 Power Casing Tongs		NO	

SPECIFICATION / DESCRIPTION	IS	Requirement	Tenderer Specifications Offered
Quantity:	no.		
Make/type:			
W/jaws for OD casing (max/min):	in/in		
Max output torque:	ft-lbs		
Torque indicator:	yes/no		
Back-up arm:	yes/no		
Quantity:	no.		
Make/type:			
W/jaws for OD casing (max/min):	in/in		
Max output torque:	ft-lbs		
Torque indicator:	yes/no		
Back-up arm:	yes/no		
G.1.11 Power Unit For Casing & Tubing Tongs		No	
a rubing ronge			
Quantity:	no.		1 each
Make/type:			Weatherford lamb
Capacity (ea.):	gpm		25 gpm
Output pressure:	psi		3000 psi max
Dedicated unit:	yes/no		yes
G.1.12 Casing Circulating Head (S	wedge)		
For OD casing:	psi	No	
Connection type:	top/bottom		
For OD casing:	psi		
Connection type:	top/bottom		
For OD casing:	psi		
Connection type:	top/bottom		
For OD casing:	psi		
Connection type:	top/bottom		
G.1.13 Casing Spears (Internal)			
Quantity:	no.		No
	110.		
Make/type:			
For OD casing:	in		
For casing weight:	lbs/ft		
Pack-off:	yes/no		
Quantity:	no.		
Make/type:			
For OD casing:	in		
	lbs/ft		
For casing weight: Pack-off:	ibs/π yes/no		
	•		
Quantity:	no.		
Make/type:			
For OD casing:	in		
For casing weight:	lbs/ft		
Pack-off:	yes/no		
G.1.14 Casing Cutters (Internal)	<b>,</b>	No	

SPECIFICATION / DESCRIPTION	IS	Requirement	Tenderer Specifications Offered
Quantity:	no.		No
Make/type:	. ,.		
For OD casing (max/min):	in/in		
Quantity:	no.		
Make/type:			
For OD casing (max/min):	in/in		
Quantity:	no.		
Make/type:			
For OD casing (max/min):	in/in		
G.1.15 Crossover to Handle Casin Drill Pipe	g with	No	
Quantity:	no.		No
For OD casing:	in		
Casing connection type:			
Drill pipe connection type: Rated capacity:	st		
Rated Capacity.	St		
Quantity:	no.		
For OD casing:	in		
Casing connection type:			
Drill pipe connection type: Rated capacity:	st		
rated dapatoty.	31		
Quantity:	no.		
For OD casing:	in		
Casing connection type: Drill pipe connection type:			
Rated capacity:	st		
0.1.10		NI.	
G.1.16 Casing Scrapers		No	
Quantity:	no.		No
Make:			ADOC scrapers.
For OD casing:	in		
For casing weight: OD body:	lbs/ft in		
Connection type:			
Blade type (roller/fixed)			
Quantity:	no.		
Make:	110.		
For OD casing:	in		
For casing weight:	lbs/ft		
OD body: Connection type:	in		
Blade type (roller/fixed)			
,			
Make: For OD casing:	in		
For casing weight:	lbs/ft		
OD body:	in		
Connection type:			
Blade type (roller/fixed)			
Make:			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
For OD casing:	in		
For casing weight:	lbs/ft		
OD body:	in		
Connection type:			
Blade type (roller/fixed)			
blade type (roller/fixed)			
G.2 CEMENTING EQUIPMENT			
G.2.1 Cement Unit			
Owner:		THIRD PARTY	Dowell Schlumberger
Free placement basis:	yes/no	yes	yes
Make/type:			
No. of triplex pumps:	no.		
Maximum working pressure:	psi	10000 psi	
Maximum flow rate (total):	bbl/min	·	
Unit power by (electric/diesel):			
Re-circulating mixing system:	yes/no		
Capacity:	bbl		
Motor power:	hp		
		LV00	
Liquid additive system:	yes/no	yes	
Premix/batch tank:	gal/min		
Quantity:	no.	2	
Capacity (total):	bbl	100	
Pressure recorder:	yes/no	yes	
Densionmeter recording device:	yes/no	yes	
G.2.2 Cementing Manifold		Yes	Yes
Discharge manifold working procesure:	noi	10,000 pai	10 000 pgi
Discharge manifold working pressure:	psi	10,000 psi	10,000 psi 2"
Cement pump discharge lines min. ID:	in	2 in / 3 in	2
Cement pump discharge lines working		40.000	40.000
pressure:	psi	10,000 psi	10,000 psi
Manifold safety pressure relief valve:	yes/no	yes	Yes
G.2.3 Cementing Standpipe		Yes	Yes
Quantity:	no.	1 ea.	1 ea.
Working pressure:	psi	5000 psi	5000 psi
ID:	in	2 in	2 in
Connection to choke manifold:		No	No
	psi		INO
Connection to standpipe manifold:	yes/no	Fixed or Chicksan Jumper	
G.2.4 Cementing Kelly		No	
Quantity:	no.		No
Nominal size OD:	in		
Total length:	ft		
Working length:	ft		
Connection type:			
Cement head:	yes/no		
Quantity:	no		
	no.		
Nominal size OD:	in #		
Total length:	ft		
Working length:	ft		
Connection type:			
Cement head:	yes/no		

SPECIFICATION / DESCRIPTION	s	Requirement	Tenderer Specifications Offered
G.2.5 Cementing Tubing			0
Size: Length (total): X-overs to drillpipe (specified in section D.1.3):	in ft yes/no		
H. INSTRUMENTATION/COMMUNIC	CATION		
H.1 DRILLING INSTRUMENTATION	ON AT		
H.1.1. Weight Indicator		Yes	Yes
Make/Type: Sensor type:		Driller's Display MD Totco ( Rig Sense)	Driller's Display MD Totco ( Rig Sense)
H.1.2 Standpipe Pressure Gauges	5	Yes	Yes
Quantity:	no.	1 each	1 each
Make/type:		Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum pressure reading:	psi	5000 psi	5000 psi
Quantity: Make/type:	no.	1 each Martin Decker / analog	1 each Martin Decker / analog
Maximum pressure reading:	psi	6000 psi	6000 psi
Quantity: Make/type:	no.	1 J-2 Transmitter	1 J-2 Transmitter
Maximum pressure reading:	psi	6000 psi	6000 psi
H.1.3 Choke Manifold Pressure G	auges	yes	Yes
Quantity:	no.	1	1
Make/type:		Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum pressure reading:	psi	10000 psi	10000 psi
Quantity:	no.	1 each	1 each
Make/type: Maximum pressure reading:	psi	Cameron/ J2 transmitter 10000 psi	Cameron/ J2 transmitter 10000 psi
H.1.4 Rotary Instrumentation			
H.1.4.1 Tachometer		Yes	Yes
Make/type:		Driller's Display MD-Totco	Driller's Display MD-Totco
Maximum RPM:	rpm	(Rig Sense)	(Rig Sense)
H.1.4.2 Torque Indicator		Yes	Yes
Make/type:		Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum torque:	ft-lbs	(Ng Gense)	(rug dense)
H.1.5 Top Drive Instrumentation			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
H.1.5.1 Tachometer		Yes	Yes
Make/type:		Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum RPM:	rpm	(rug sense)	(rug consc)
H.1.5.2 Torque Indicator		yes	Yes
Make/type:		Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum torque:	ft-lbs	(Ng Sense)	(ray sense)
H.1.6 Pump Stroke Counters		Yes	Yes
Quantity: Make/type:	no.	2 1 ea Driller's Display MD- Totco (Rig Sense) 1 ea. Electro Flow Stroke Counter	2 1 ea Driller's Display MD- Totco (Rig Sense) 1 ea. Electro Flow Stroke Counter
Stroke indicator and cumulative stroke counter for each pump:	yes/no	Yes	Yes
H.1.7 Tong Torque Indicator		Yes	Yes
Make/type		Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Maximum torque:	ft-lbs	(rug dense)	(rag dense)
H.1.8 Pit Volume Totalizer		Yes	Yes
Make/model:		Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
Float in active mud tanks: Quantity per tank: Floats in reserve mud tanks: Quantity per tank: Floats in mud processing tanks:	yes/no no. yes/no no. yes/no	Yes (Ultra-sonic sensor)  1 Yes (Ultra-sonic sensor)  1 Slug Pit	Yes (Ultra-sonic sensor)  Yes (Ultra-sonic sensor)  Slug Pit
Quantity per tank: Loss/Gain indicator:	no. yes/no	1 Yes (Driller's Display MD- Totco (Rig Sense)	1 Yes (Driller's Display MD- Totco (Rig Sense)
Audio Alarm: Visual Alarm:	yes/no yes/no	Yes Yes	Yes Yes
H.1.9 Mud Flow Indicator		Yes	Yes
Make/model:		Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)
High/low alarm: Audio Alarm: Visual Alarm: Sensor location:	yes/no yes/no	Yes Yes Mud Return line ( to Shale	Yes Yes Mud Return line ( to Shale
H.1.10 Trip Tank Indicator		Shaker) Yes	Shaker) Yes
Make/model:		Driller's Display MD-Totco (Rig Sense)	Driller's Display MD-Totco (Rig Sense)

SPECIFICATION / DES	CRIPTIONS	Requirement	Tenderer Specifications Offered
Chart recorder:	yes/no	Yes	Yes
Alarm:	yes/no	Yes	Yes
Make/model:			
Chart recorder:	yes/no		
Alarm:	yes/no		
H.1.11 Automatic Driller (	(see B.2.1)	No	No
H.1.12 Remote Choke Co	entrol Unit (see E.5)	Yes	Yes
H.1.13 Crown Clearance	Indicator	Yes	
Make/type:	yes/no	No	No
H.2 DRILLING PARAM	IETER RECORDER	Yes	Yes
Quantity:	no.	No	No Driller's Display MD-Totco
Make/type:	IIO.		יייין או אווייים פו אוויים בייייין אוויים דייייי
Location - 1:			
Type (display/recorder/b	oth):		
Location - 2: Type (display/recorder/both	۸۰		
Location - 3:	).		
Type (display/recorder/both	ı):		
Number of parameters reco	orded: no.		
Parameter recorded:			
Parameter recorded: Parameter recorded:			
Parameter recorded:			
Parameter recorded:			
Parameter recorded:			
Parameter recorded: Parameter recorded:			
r arameter recorded.			
H.3 INSTRUMENTATIO	ON AT CHOKE MANIFOLD		
H.3.1 Standpipe Pressur (Drill pipe pressur			
,      P		Yes	Yes
		Yes	Yes
Quantity:	re gauge)	1 Driller's Display MD-Totco	1 Driller's Display MD-Totco
Quantity: Make/type:	re gauge) no.	1 Driller's Display MD-Totco (Rig Sense)	1 Driller's Display MD-Totco (Rig Sense)
Quantity: Make/type:	re gauge) no.	1 Driller's Display MD-Totco	1 Driller's Display MD-Totco
Quantity: Make/type: Pressure range (maximum)	no.	1 Driller's Display MD-Totco (Rig Sense)	1 Driller's Display MD-Totco (Rig Sense)
Quantity: Make/type: Pressure range (maximum) Quantity:	re gauge) no.	1 Driller's Display MD-Totco (Rig Sense) 5000psi	1 Driller's Display MD-Totco (Rig Sense) 5000psi
Quantity: Make/type: Pressure range (maximum) Quantity: Make/type:	no. psi no.	1 Driller's Display MD-Totco (Rig Sense) 5000psi	1 Driller's Display MD-Totco (Rig Sense) 5000psi
Quantity: Make/type: Pressure range (maximum) Quantity: Make/type: Pressure range (maximum)	no. psi no. psi	1 Driller's Display MD-Totco (Rig Sense) 5000psi 1 Martin Decker/ vernier	1 Driller's Display MD-Totco (Rig Sense) 5000psi  1 Martin Decker/ vernier
Quantity: Make/type: Pressure range (maximum) Quantity: Make/type: Pressure range (maximum) Visible from choke operating	no.  psi no.  psi psi g position: yes/no  ressure Gauge	1 Driller's Display MD-Totco (Rig Sense) 5000psi  1 Martin Decker/ vernier 6000psi	1 Driller's Display MD-Totco (Rig Sense) 5000psi  1 Martin Decker/ vernier 6000psi
Quantity: Make/type: Pressure range (maximum) Quantity: Make/type: Pressure range (maximum) Visible from choke operating H.3.2 Choke Manifold Processure (Casing pressure)	no.  psi no. psi psi g position: yes/no ressure Gauge	1 Driller's Display MD-Totco (Rig Sense) 5000psi  1 Martin Decker/ vernier 6000psi  Yes	1 Driller's Display MD-Totco (Rig Sense) 5000psi 1 Martin Decker/ vernier 6000psi Yes
Quantity: Make/type: Pressure range (maximum) Quantity: Make/type: Pressure range (maximum) Visible from choke operating H.3.2 Choke Manifold Processing pressure of	no.  psi no. psi psi g position: yes/no ressure Gauge gauge)	1 Driller's Display MD-Totco (Rig Sense) 5000psi  1 Martin Decker/ vernier 6000psi Yes Yes	1 Driller's Display MD-Totco (Rig Sense) 5000psi  1 Martin Decker/ vernier 6000psi  Yes Yes
Quantity: Make/type: Pressure range (maximum) Quantity: Make/type: Pressure range (maximum) Visible from choke operating	no.  psi no. psi psi g position: yes/no ressure Gauge gauge)	1 Driller's Display MD-Totco (Rig Sense) 5000psi  1 Martin Decker/ vernier 6000psi Yes Yes	1 Driller's Display MD-Totco (Rig Sense) 5000psi  1 Martin Decker/ vernier 6000psi Yes Yes

SPECIFICATION / DE	SCRIPTIONS	Requirement	Tenderer Specifications Offered
Make/type:		Driller's Display MD-Totco	Driller's Display MD-Totco
Proceuro gaugo:	psi/psi	(Rig Sense)	(Rig Sense)
Pressure gauge:	μει/μει		
Quantity:	no.		
Make/type:	:/:		
Pressure gauge:	psi/psi		
H.4 INSTRUMENTA	ATION AT STANDPIPE		
H.4.1 Standpipe Press	ure Gauge		
Quantity:	no.	1 each	1 each
Make/type:	110.	Martin Decker/ Vernier	Martin Decker/ Vernier
Pressure gauge:	psi/psi	0 - 6000 psi	0 - 6000 psi
Quantity:	no.	1 each	1 each
Make/type:	110.	6000 psi	6000 psi
Pressure gauge:	psi/psi	Choke panel	Choke panel
Quantity:	no.	1 each	1 each
Make/type:	IIU.	Rig sense	Rig sense
Pressure gauge:	psi/psi	Drillers display	Drillers display
Visible from driller's position	on: yes/no	Yes	Yes
Visible from choke operati		Yes	Yes
H.5.1 Deviation Record		Yes	Yes
Quantity:	no.	1	1
Make/type:	110.	Martin Decker TOTCO	Martin Decker TOTCO
Deviation range:	degree/degree	0-8	0-8
Quantity:	no.	1	1
Make/type:		Martin Decker TOTCO	Martin Decker TOTCO
Deviation range:	degree/degree	0-16	0-16
H.5.2 Slickline Unit (se	ee B.2.4)	yes	yes
H.6 RIG COMMUNICA	ATION SYSTEMS		
H.6.1 Rig Telephone S	ystem	Yes	Yes
No. of stations:	no.	34	35
Make/type:		MITEL / SX-50	Panasonic
Explosion proof:	yes/no	Mud Pit /shale shaker/ separator area/ rig floor	Mud Pit /shale shaker/ separator area/ rig floor
No. of stations:	no.		
Make/type:			
Explosion proof:	yes/no		
No. of stations:	no.		
-	-		
Make/type: Explosion proof:	yes/no		

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
H.6.2 Public Address System			
Can be combined with H.6.1 above:	yes/no	Yes	Yes
No. of stations:	no.	34	34
Make/type:	voo/no	TOA / VP 1120-A	Gaitronics Mud Pit / Mud Pump
Explosion proof:	yes/no	Mud Pit / Mud Pump Room/shale shaker/ rig floor	Room/shale shaker/ rig floor
H.6.3 Drill Floor Talkback System		No	
No. of stations:	no.		2
Location:			Monkey Board
Location: Location:			Drillers Console
Location:			Difficia Colladie
Make/type:			<b>Atkinson Dynamics</b>
Explosion-proof:	yes/no		Yes
H.6.4 Hand Held Vhf Radios		Yes	
Quantity:	no.	6	10
Quantity intrinsically safe:	no.	6	10
H.6.5 Crane Communication System	ı		
Quantity:	no.	3	1 Port side crane
Make/type:	voolno	Voc	Panasonic telephone No
Explosion proof: Part of rig telephone system (H.6.1):	yes/no yes/no	yes yes	Yes
Part of public address system (H.6.2):	yes/no	yes	Yes
Quantity:	no.	2 VHF radios ( port and	2 VHF radios ( port and
		st.bd. crane)	st.bd. crane)
Make/type: Explosion proof:	yes/no	I COM No	I COM No
Explosion proof.	yes/110	INO	INO
H.7 ENVIRONMENTAL INSTRUMENT	TATION		
H.7.1. Temperature Indicators			
Air temperature (make/model):			Yes, furuno/ Rd 30
Recorder:	yes/no		NO
Sea water temperature (make/model): Recorder:	yes/no		No
H.7.2 Barometric Pressure Indicator		yes	
		-	
Make/model: Recorder:	yes/no		No
H.7.3 Humidity Sensing Indicator			No
Make/model:			No
Recorder:	yes/no		

SPI	ECIFICATION / DESCRIPTIONS	<b>S</b>	Requirement	Tenderer Specifications Offered
H.7.4	Wind Speed/Direction Meter			
Make/r			Yes	Furuno / WS 150
Record	der:	yes/no		No
H.7.5	Wave Profile Recorder			No
Make/r Record		yes/no		
	Current Indicator	•		No
Make/r				
Locate Record		yes/no		
H.7.7	Weather Facsimile			
Make/r				Yes Navtex Receiver
Locate Record		yes/no		Furuno –NX -500
H.8	NAVIGATION INSTRUMENTA	ATION		
H.8.1	Gyro Compass			Yes, Furuno Satellite compass
Make/r Locate				Furuno SC-50 Barge Control Room
H.8.2	Depth Sounder		No	Yes
Make/r				Furuno FCV-585 Barge Control Room
Locate Record		yes/no		No
H.8.3	Radar			No
Quanti Make/r	nodel:	no.		
Locate Bandw		cm		
H.9	EXTERNAL COMMUNICATION	NS EQUIPMENT		
H.9.1	SSB Transceiver			
Locatio Quanti		no.	Radio room 1 ea.	Radio Room 1
Make/r				Furuno FS-2575C
	: ency ranges (low/high): nthesized crystal):	watts mhz/mhz		4125
Facsim	nile capable (see also H.9.9): capable (see also H.9.10):	yes/no yes/no	Yes Yes	

SPECIFICATION / DESCRIPTION	S	Requirement	Tenderer Specifications Offered
Location(s):			
Quantity:	no		
Make/model:	no.		
Power:	watts		
Frequency ranges (low/high): (Synthesized crystal):	mhz/mhz		
Facsimile capable (see also H.9.9): Telex capable (see also H.9.10):	yes/no yes/no		
H.9.2 E.P.I.R.B's			
Quantity:	no.		1
Make/model:			JOTRON / TRON-40S
Location(s):			Emer Gen room Roof
Quantity:	no.		
Make/model:			
Location(s):			
H.9.3 Marine VHF Radio			
Quantity:	no.	2 ea	1ea
Make/model:		SAILOR / RT 144AC	SAILOR / RT 144AC
Power:	watt	25	25
Channels:	watt	55-2 channels	55-2 channels
Location:		Radio Room	Radio room
Quantity:	no.		
Make/model:	110.		
Power:	watt		
Channels: Location:			
Quantity:	no.		
Make/model:			
Power:	watt		
Channels:			
Location:			
H.9.4 Aircraft Radio Beacon Trans	smitter (NDB)	yes	
Quantity:	no.	1	1
Make/model:		Southern Avionics	Southern Avionics
Power:	watts	SS800 – 100W	SA100 ac/dc 200 cont.
H.9.5 Aeronautical VHF Transceiv	/er		
Quantity:	no.	1 ea	1ea.
Make/model:			PAE
Power:	watts		
Frequency range (low/high):	mhz/mhz		122.800
(Synthesized/crystal):			
Location(s):			

SPECIFICATION / DESCRIPTION	NS	Requirement	Tenderer Specifications Offered
Make/model: Power: Frequency range (low/high): (Synthesized/crystal): Location(s):	watts mhz/mhz		50104
H.9.6 Watch Receiver			
Quantity: Make/model: Frequency:	no. khz		
H.9.7 Satellite Communication S	ystem	yes	Yes
Make/model:			Rig Net
Type: Facsimile capable (see also H.9.9) Telex capable (see also H.9.10) Location(s):	yes/no yes/no	yes yes OIM office	Yes (Possible)  Radio Room, RM office, Warehouse, Hospital, Pms Office, Company man's office, Barge Control Room.
H.9.8 Inmarset			No
Number of phone lines:	no.		
H.9.9. Facsimile			No
Make/model: Connected to:			
Make/model: Connected to:			
H.9.10 Telex			No
Make/model: Connected to:			
Make/model: Connected to:			
H.9.11 Scrambler			No
Make/model: Connected to:			
Make/model: Connected to:			
H.9.12 Other Communication Syst	tem		
Make/model: Connected to:			
Make/model:			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Connected to:			
I. PRODUCTION TEST EQUIPMEN	Т		
I.1 BURNERS			No
Make/type:			
Quantity:	no.		
	bbl/day st		
Weight: Water requirement at 100 psi:	bbl/min		
I.2 BURNER BOOMS		No	
Make/type:			
Quantity:	no.		No
Length:	ft		
Horizontal:	yes/no		
Maximum wind speed: Walkway and handrails:	knots yes/no		
Burner platform size:	ft x ft		
Burner mounting rotatable:	yes/no		
I.3 PIPING ON BURNER BOOMS			
I.3.1 Oil Line			No
ID:	in		
Working pressure:	psi		
Connection type at burner end: H2S:	yes/no		
Pressure gauge connection at barge end:	in		
I.3.2 Gas Line			No
noi2 duo Line			
ID:	in		
Working pressure: Extended beyond burner by:	psi ft		
Connection type at burner end:	i C		
H2S:	yes/no		
Pressure gauge connection at barge end:	in		
I.3.3 Water Line			No
ID:	in		
Working Pressure:	psi		
Connection type at burner end: Pressure gauge connection at barge end:	in		
I.3.4 Air Line			No
ID:	in		
Working Pressure:	psi		
Connection type at burner end:	type		
Pressure gauge connection at barge end:	in		

SPE	CIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
1.3.5	Pilot Gas line			No
ID:		in		
	Pressure:	psi		
	tion type at burner end:	type		
	e gauge connection at barge end:			
1.4	SPRINKLER SYSTEM		VOS	Yes
1.4	SPRINKLER STSTEW		yes	Yes
System Pump so	in place: ource:	yes/no		Sea water
1.5	FIXED PIPING FOR WELL TEST	ING	(sour service oil & gas)	
I.5.1	Drill Floor to Separator Area			
Type (so	crewed/welded, both):			
Quantity	<b>/</b> :	no.		No
Size ID:		in		
Working	pressure:	psi		
	tion on drill floor:	type		
	tion at separator: · of valves/lines:	type		
	of valves:	no. in		
H2S:	or varves.	yes/no		
1.5.2	Separator Area to Burner Boom	าร		
Sonvico	(oil/gas):			
	crewed/welded, both):			
Quantity		no.		No
Size ID:		in		
	pressure:	psi		
	tion at separator:	type		
	tion at boom:	type		
	of valves/lines: of valves:	no. in		
H2S:	or valves.	yes/no		
	nstalled near separator area for	yC3/110		
	ching gas to either burner:	yes/no		
Service	(oil/gas):			
	crewed/welded, both):			
Quantity		no.		No
Size ID:		in		
	pressure:	psi		
	tion at separator: tion at boom:	type		
	uon at boom: · of valves/lines:	type no.		
	of valves:	in		
H2S:		yes/no		
Valves i	nstalled near separator area for			
switc	ching gas to either burner:	yes/no		
1.5.3	Water Lines to Burner Booms		yes	
	crewed/welded/both):			
Quantity		no.		yes
Size ID:		in :		
vvorking	pressure:	psi		

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Number of valves required:	no.		
Size of valves:	in		
Pump source:			
Rated line capacity at 300 psi:	bbl/hr		
I.5.4 Air System to Burner Booms			
Type (screwed/welded/both):			
Quantity:	no.		No
Size ID:	in		
Working pressure:	psi		
Non-return valves fitted:	yes/no		
Air source:	yes/110		
I.5.5 Oil Storage Tank To Offload			
Type (screwed / welded / both):			
Quantity:	no.		No
Size ID:	in		1.0
Working pressure:	psi		
Connection at separator area:			
Connection at separator area.	type		
I.5.6 Separator to Vent Stack of Rig	3		
Type (screwed/welded, both):			
Quantity:	no.		No
Size ID:	in		
Working pressure:	psi		
Connection type at separator area:	type		
I.6 AUXILIARY POWER AVAILAB	ILITY		
I.6.1 For Field Laboratory			
Quantity:	no.		1
Volts:	volts		480
Frequency:	hz		60
Breaker:	amp		30
I.6.2 For Crude Transfer Pump			
Quantity:	no.	2	1
Volts:	V	460	480
Frequency:	hz	60	60
Breaker:	amp		
I.6.3 For Electric Heaters			
Quantity:	no.		
Volts:	V		
Frequency:	hz		
Breaker:	amp		
J. WORKOVER TOOLS			
K. ACCOMMODATION			
K.1 OFFICES			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
K.1.1 Company Representative's Off	ice		
Quantity: Number of combination office/ State rooms in above: Complete with desk, filing cabinets(s) and		one one yes	1 1 Yes
other necessary furniture: Quantity with unrestricted view to drill floor:	yes/no no.	1	1
K.1.2 Contractor's Representative's	Office		
Quantity: Quantity:	no. no.		1
Service company room			
Quantity: Quantity with unrestricted view to drill floor:	no. no.		1 1
			1
K.1.4 Radio Room			
Quantity:	no.		1
K.1.5 Helicopter Ready Room			
Quantity:	no.		No
K.1.6 Hospital Room			
Number of beds/bunks: Dangerous drugs locker:	no. yes/no	2 yes	2 Yes
K.2 LIVING QUARTERS			
K.2.1 Accommodations			
Total Beds: No. of beds per room type (1,2,3, etc): Number of rooms: Toilets (private/shared/communal): Showers (private/shared/communal):	no. : no. no.	95 1 2 (Company man & OIM) private private	90 1 1( Rig Manager, Company man) 1 Private 1 Private
No. of beds per room type (1,2,3, etc): Number of rooms: Toilets (private/shared/communal): Showers (private/shared/communal):	no.		4 17 Shared Shared
No. of beds per room type (1,2,3, etc): Number of rooms: Toilets (private/shared/communal):	no.		2 11 Shared

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Showers (private/shared/communal):			Shared
No. of beds per room type (1,2,3, etc): Number of rooms: Toilets (private/shared/communal): Showers (private/shared/communal):	no. no.		
No. of beds per room type (1,2,3, etc): Number of rooms: Toilets (private/shared/communal): Showers (private/shared/communal):	no. no.		
No. of beds per room type (1,2,3, etc): Number of rooms: Toilets (private/shared/communal): Showers (private/shared/communal):	no. no.		
No. of beds per room type (1,2,3, etc): Number of rooms: Toilets (private/shared/communal): Showers (private/shared/communal):	no. no.		
K.2.2 Galley Quantity:	no.	2 2	2.
Main mess: Aux. mess:	no. no.	1 Senior 1 Junior	1 Senior 1 Junior
K.2.3 Mess Seating Capacity			
Quantity:	no.	22 Senior 22 Junior	22 Senior 22 Junior
K.2.5 Recreation Rooms			
Quantity: Recreation facilities	no.	2 ea.	2
TV:	no.	1 ea	1
VCR:	no.	1 ea	DVD players
Pool Table:	no.		No
Ping Pong Table: Computer:	no. no.		0
Workout/weight room: Other:	no.		<b>2</b> 1
K.2.6 Other Rooms			
Change rooms:	no.		2
Prayer room:	no.		2 <mark>1</mark>
Cinema: Other:	no.		No

Yes Contractor	Yes
	Yes
	Yes
	1
Contractor	Contractor
No	<mark>6</mark> HAWS 7260BT Rig floor, shaker area, Port
	main deck, mixing room, pit room
	1 HAWS 7500 Dowell unit
No	
	5 HAWS 8300 Rig floor, shaker area, Port main deck, mixing room, pit room
Yes DBI/SALA yes 2 ea. Lewis/MB-FAH-1	NO
	Contractor  Contractor  No  No  Yes DBI/SALA yes 2 ea.

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
L.1.4 Derrick Climbing Assistant			
Make/type:		LAD-SAF / CARABINERS	LAD-SAF / CARABINERS
L.1.5 Fresh Air Blowers (Bug Blowers	s)		
Quantity: Make/type: Located at:	no.	2 Bug Blower / Portable	6 + 2(Portable) Various Monkey Board, Rig Floor (2ea), Shale Shaker, Dowell Unit, Pipe Deck Portable units( Welding bench, Sack Room)
L.2 GAS/FIRE/SMOKE DETECTION			
L.2.1 H2S Monitoring System			
Make/type: Sampling points at: Bellnipple: Drillfloor: Shale shaker: Mud tanks: Ventilation system into living quarters: Other:	yes/no yes/no yes/no yes/no	Detcon Model No. 610AFB  Yes Yes Yes Yes Yes Mud Pump Room	Detcon Model No. 610AFB  Yes Yes Yes Yes Yes Mud Pump Room
Alarms at: Driller's console (audible/visual/both): Engine room (audible/visual/both): Mud room (audible/visual/both): Living quarters each level (audible/visual/central area each structural level (audible/visual/both): Other:	al/both):	both both both audible audible	Both Both Both Audible Both
Tied to general alarm: Central control panel: Located at: Local alarm (audible/visual/both):	yes/no yes/no	yes yes both	No Yes Radio Room Audible
L.2.2 Combustible Gas Monitoring Sy	/stem		
Make/type: Sampling points at: Bellnipple: Drillfloor: Shale shaker: Mud tanks: Ventilation system into living quarters: Other:	yes/no yes/no yes/no yes/no yes/no	Detcon / Model 610A FB 6 Yes Yes Yes Yes Yes	Detcon / Model 610A FB 6 Yes Yes Yes Yes Yes Mud Pump room
Alarms at:     Driller's console (audible/visual/both):     Engine room (audible/visual/both):     Mud room (audible/visual/both):     Living quarters each level (audible/visual/both):     Central area each structural level     (audible/visual/both):     Other:	al/both):	Both Both Both Audible Both	Both Both Both Audible Both

SPECIFICATION	I / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Tied to general a	larm:	yes/no	Yes	No
Central control pane	el:	yes/no	Yes	Yes
Located at:	/		Radio Room	Radio Room
Local alarm (audible	e/visual/both):		Both	Both
L.2.3 H2S Detect	ors (Portable)			
Quantity:		no.	1 DW Tachnalagias	5 DW Tachnalogica / LTV210
Make/type: Quantity:		no.	BW Technologies	BW Technologies/ LTX310
Make/type:		110.		
Stain types for H2S:	measuring range:			
from 1 to 20 perc		%	yes	
from 5 to 60 perc	cent:	%	yes	
L.2.4 Explosimet	ers			
Quantity:		no.	1 ea	5 DW T
Make/type:				BW Technologies
L.2.5 CO2 Gas D	etectors (portable)			
Quantity:		no.	2 ea	5
Make/type:				BW Technologies
Stain tubes for CO2		0/		
from 1 to 20 perc from 5 to 60 perc		% %	yes	
L.2.6 O2 Meter (p	oortable)			
Quantity:		no.		5
Make/type:				BW Technologies
L.2.7 Fire/Smoke	Detectors in Acco	mmodation		
Make/type:			Thorn System 880	Thorn System 880
Fire detection:		yes/no	Yes	Yes
Smoke detection:	di	yes/no	Yes	Yes
Central control pane Location:	;I.	yes/no	Yes Radio Room	Yes Radio Room
Alarms:		no.	Yes	Yes
Pull boxes:		no.		1
Mud room (audib	le/visual/both):			Both
	ach level (audible/vis	sual/both)	Audible	Audible
Central area stru			Audible	Audible
(audible/visual/bo	oth):			
Other:	larm:	yes/no	VOS	Yes
Tied to general a Central control pane		y <del>c</del> s/110	yes	Yes
	•••			Rig Manager's Office
Local alarm (audible	e/visual/both):		both	Both
Located at: Local alarm (audible	e/visual/both):		both	Both
Located at: Local alarm (audible	TING EQUIPMENT		both	Both

SPECIFICATION / DESCRIPTION	ONS	Requirement	Tenderer Specifications Offered
Make/model:		Goulds / 3796	Goulds / 3796
Type:		Centrifugal	Centrifugal
Output (each):	gals/min	250 gpm each	250 gpm each
Location:	· ·	Aux. pump room	Aux. pump room
Quantity:	no.		
Make/model:	110.		
Type: Output (each):	gals/min		
Location:	gais/IIIII		
All off-take points supplied by all pu	mps: yes/no		
L.3.2 Hydrants And Hoses			
			V <sub>2</sub> =
Hydrants positioned such that any p		yes	Yes
by a single hose length from two	separate hydrants:		
yes/no			
Quantity of hydrants:	no.	19	19
Hose connections/hydrant:	no.	1-1/2", threaded.	1-1/2", threaded.
Hose. max. diameter:	in	1-1/2"	1-1/2"
Length:	ft	50 ft accomo., 75 ft m/deck	50 ft accomo., 75 ft m/deck
L.3.3 Portable Fire Extinguishe	rs		·
· ·			05
Quantity (total):	no.	99	<mark>25</mark>
Type 1 - CO2	no./lbs	23/15lbs	<mark>24/11 lbs</mark>
	no./lbs	5/5lbs	1/110 lbs
			1/66 lbs
	no./lbs	1/65lbs	
	no./lbs	1/50lbs	
Type 2 - Dry chemical	no.		<mark>39</mark>
	no./lbs	14/20lbs	33/11 lbs
	no./lbs	2/15lbs	5/20 lbs
	no./lbs	2/2.5lbs	<mark>1/125 lbs</mark>
Type 3 - Foam	no.		8
	no./lbs	1/33gals	<mark>1/63 gal</mark>
			<mark>7/2.5 gals</mark>
	no./lbs	1/9 liters	1/12 gals
Water	no./lbs		No
	no./lbs		
	no./lbs		
Halon	no./lbs		No
Taion	no./lbs		140
	110.,100		
I 3.4 Fire Blankets			
L.3.4 Fire Blankets			
	no	2 ea.	6 ea.
Quantity:	no.	2 ea.	6 ea. Senior and Junior Galley
	no.	2 ea. Senior and Junior Galley, control room	6 ea. Senior and Junior Galley Welder's Bench, control

SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
L.3.5 Fixed Foam System		NO
Make/type:		
Quantity of foam concentrate stored: gal		
Foam type:		
Application rate: gals/min Foam nozzles: no.		
Foam nozzles: no. Located at:		
Located at:		
Located at:		
Automatically injected into fixed fire		
water system: yes/no		
Make/type:		
Quantity of foam concentrate stored: gal		
Foam type:		
Application rate: U.S. gals/min Foam nozzles: no.		
Foam nozzles: no. Located at:		
Located at:		
Located at:		
Automatically injected into fixed fire		
water system: yes/no		
L.3.6 Helideck Foam System		
Make/type:	ANSUL	ANSUL
Quantity of monitors: no.	2 ea.	3 ea.
Quantity of foam concentrated stored: gal	200 gpm	200 gpm
Foam type:	AFFF	AFFF
Application rate: gals/min		
L.3.7 Fixed Fire Extinguishing System		
Protected spaces:		
Engine room, type (Halon/CO2/other):	CO2	CO2
Remote manual release located at:	Port Side Entrance	Port Side Entrance
Paint locker, type (Halon/CO2/other):	CO2	CO2
Remote manual release located at:  Emergency generator type (Halon/CO2/other):	Outside of paint locker CO2	Outside of paint locker CO2
Remote manual release located at:	Entrance Door	Entrance Door
SCR room type (Halon/CO2/other):	CO2	CO2
Remote manual release located at:	Port side Entrance	Port side Entrance
Other (specify location & type):Mud Pits	NO	NO
Remote manual release located at: Alarms *audible, visual, or both):	Both	Both
Automatic shutdown of ventilation fans	Yes	Yes
in protected spaces: yes/no		
L.3.8 Manual Water Deluge System yes/no		
Protected spaced:		
Protected spaced:		
Water supplied from fire main line: yes/no		

SPECIFICATION / DESCRIPTIONS  L.3.9 Water Sprinkler System in Accommodation		Requirement	Tenderer Specifications Offered
Automatic activation: Working pressure:	yes/no psi	Yes 100 psi	Yes 100 psi
Tank capacity:	gal	2.88 m3	2.88 m3
Salt water backup:	yes/no	Yes	Yes
Type (wet pipe/dry pipe)		Wet Pipe	Wet Pipe
L.4 BREATHING APPARATUS		Yes	Yes
L.4.1 General Sets			
Quantity:	no.	35 ea	49
Make		SCOTT	SCOTT
Type (demand/positive pressure):		Both.	Both.
Cascade system quick connects:	yes/no	Yes	Yes
Cylinder duration:	min	30 min.	30 min.
Located at:	qty/loc	3 Rig Floor	6 Rig Floor
Located at:	qty/loc	4 Shale shaker	2 Shale shaker
Located at:	qty/loc	2 S/B Crane pedestal	0 S/B Crane pedestal
Located at:	qty/loc	1 Sack room	1 Sack room
Located at:	qty/loc	1 Mud Lab	1 Mud Lab
Located at:	qty/loc	1 Mechanic Workshop	1 Mechanic Workshop
Located at:	qty/loc	3 Pump Room	3 Pump Room
Located at:	qty/loc	2 Outside warehouse	2 Outside warehouse
Located at:	qty/loc	2 Engine room	2 Engine room
Located at:	qty/loc	1 SCR room	1 SCR room
Located at:	qty/loc	1 Rack at S/B Lifeboat	4 outside co2 room
Located at:	qty/loc	4 S/B lifeboat station locker	10 S/B lifeboat station locker 9 port lifeboat station
Located at:	qty/loc	2 Fire M/Box Port lifeboat	2 Fire M/Box Port lifeboat
Located at:	qty/loc	1 Control room	1 Control room
Located at:	qty/loc	2 Rig Manager office	2 Rig Manager office
Located at:	qty/loc	2 Client Office	1 Client Office
Located at:	qty/loc	3 E/Gen. room	0 E/Gen. room radio room
			0 sts office 1 service company office
Located at:	qty/loc		
Quantity:	no.	25	no
Make		Draeger	
Type (demand/positive pressure):		Both	
Cascade system quick connects:	yes/no	Yes	
Cylinder duration:	min	30	
Located at:	qty/loc	11 S/B lifeboat station	
Located at:	qty/loc	11 Port lifeboat station	
Located at:	qty/loc	3 Rig Floor	
Located at:	qty/loc		
Located at:	qty/loc		
Located at:	qty/loc		
Quantity:	no.		
Make			
Type (demand/positive pressure):			
Cascade system quick connects:	yes/no		
Cylinder duration:	min atv/loc		
Located at:	qty/loc		

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Located at:	qty/loc		
L.4.2 Escape Sets			
Quantity:	no.	50	2
Make		Scott	Scott
Type (demand/positive pressure):		Both	Both Both
Cascade system quick connects:	yes/no	Yes	<mark>Yes</mark>
Cylinder duration:	min	10 min	<mark>15 min</mark>
Located at:	qty/loc	24 S/B lifeboat station box	2ea. confined space
Located at:	qty/loc	2 Portable Cascade rack	<mark>manifold</mark>
Located at:	qty/loc	24 Port Lifeboat station box	
Quantity:	no.	2	2
Make	110.	Scott	Scott
Type (demand/positive pressure):		Demand	Demand
Cascade system quick connects:	yes/no	Yes	Yes
Cylinder duration:	min	5	5
Located at:	qty/loc	2 Monkey board	2 Monkey board
Located at:	qty/loc	2 Monkey board	2 Workey board
L.4.3 Cascade Stations			
Quantity:	no.		NO
Make/type:		Starboard helideck	
Manifold locations/outlets at location:		Shale shaker	
Manifold locations/outlets at location:		Rig floor	
Manifold locations/outlets at location:			
Manifold locations/outlets at location:			
Manifold locations/outlets at location:			
Manifold locations/outlets at location:			
L.4.4 Breathing Air Recharge Comp	oressor		
Quantity:	no.	1	1
Make/type:		BAUER/ Utilus 10	BAUER/ Utilus 10
Compressed air storage capacity:	ft3	110L/min	110L/min
Working pressure:	psi	3100 PSI / 3hp motor	3100 PSI / 3hp motor
Located at:		Bow Leg	Bow Leg
Located at:			
0			
Quantity: Make/type:	no.		
Compressed air storage capacity:	ft3		
Working pressure:	psi		
Located at:	Poi		
Located at:			
L.4.5 Compressed Air Breathing Ap Trolley Unit	oparatus		No
Make:			
Type (demand/positive pressure):			

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
Air line length:	ft		
Compressed air storage capacity:	ft3		
Working pressure:	psi		
Including:			
Face Mask:	yes/no		
Demand valve:	yes/no		
Microphone:	yes/no		
Safety harness:	yes/no		
Safety line (incorporating telephone			
line):	yes/no		
L.4.6 Breathing Air Purity Test Eq	uipment	Yes	Yes
Quantity:	no.	1	1
Make/type:		MSA Auer/Airtester HP	MSA Auer/Airtester HP
L.5 EMERGENCY FIRST AID EQU	IPMENT		
L.5.1 First Aid Kits			
Quantity:	no.	5	7
L.5.2 Burn Kits			
Quantity:	no.	3	3
L.5.3 Resuscitators			
Quantity:	no.	2	2
Charged (spare) oxygen cylinders:	no.	6	8
L.5.4 Stretchers			
Quantity:	no.	1 each	1 each
Type:		Vacuum Stretcher and	Vacuum Stretcher and
		Folding stretcher	Folding stretcher
Located at:		Hospital	Hospital
Quantity:			
Quantity: Type:	no.	1 Scoop Stretcher	1 Scoop Stretcher
Located at:		Rig floor	Rig floor
Located at.		Trig floor	Trig floor
Quantity:	no.	1 each	1 each
Type:		Basket stretcher and Spine	Basket stretcher and Spine
.,,,,,		board stretcher	board stretcher
Located at:		Emergency Gen. room	Emergency Gen. room
L.6 HELIDECK RESCUE EQUIPME	NT	yes	
Aircraft Axe:	yes/no	Yes	Yes
Large fireman's rescue axe:	yes/no	Yes	Yes
Crowbar:	yes/no	Yes	Yes
Heavy duty hacksaw:	yes/no	Yes	Yes
Spare blades:	yes/no	Yes	Yes
Grapnel hook:	yes/no ft	Yes 50 ft.	Yes 50 ft.
Length of wire rope attached: Quick release knife:	π yes/no	Yes	50 π. Yes
Bolt croppers:	yes/no yes/no	Yes	Yes
Fireman's outfit:	yes/no yes/no	Yes	Yes
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SPECIFICATION / DESCRIPTIONS	Requirement	Tenderer Specifications Offered
CO2 Lance: yes/no	no	no
Other: Adjustable wrench		Yes
Other: Rescue Ladder		Yes
Other: Fire resistant Blanket		Yes
Other: portable safety lamp		yes
		you
L.7 EMERGENCY WARNING ALARMS		
Approved system to give warning of	yes	Yes
different emergencies: yes/no		
Activated from drill floor: yes/no	yes	no
L.8 SURVIVAL EQUIPMENT		
L.8.1 Lifeboats	yes	
Make/type:	WATERCRAFT/ 26TE	WATERCRAFT/ 26TE
Quantity: no.	1	1
Capacity: person/craft	44 person	44 person
Locations (frwd/aft/port/stbd):	1 · porcon	Port.
Fire protection: yes/no	Totally enclosed	Yes
Radio/EPIRB (see section H.9):	yes	Yes
Make/type:	WATERCRAFT/ 26TE	WATERCRAFT/ 26TE
Quantity: no.	1	1
Capacity: person/craft	44 person	44 person
Locations (frwd/aft/port/stbd):	Starboard side	Starboard side
Fire protection: yes/no	Yes	Yes
Radio/EPIRB (see section H.9):	Yes	Yes
Make/type:		
Quantity: no.		
Capacity: person/craft		
Locations (frwd/aft/port/stbd):		
Fire protection: yes/no		
Radio/EPIRB (see section H.9):		
L.8.2 Liferafts		
Make/type:	Solas/ Inflatable	Viking Life / Inflatable
Quantity: no.	2	4
Capacity: person/craft	20 person	20 person
Davit launched: person/craft yes/no	No	No
Locations (frwd/aft/port/stbd):	Stbd and Port side	Port side
Make/type:	Solas/ inflatable	
Quantity: no.	2	
Capacity: person/craft	25 person	
Davit launched: person/craft yes/no	No	
Locations (frwd/aft/port/stbd):	S/B and Portside	
L.8.3 Fast Rescue Boat		
Make/type:	Raffel MOB470/ 6 Man	Viking 470 GRP-1
Make/type. Engine power: hp	50 hp.	36 hp.
L.8.4 Personal Floatation Devices	·	
L.O.4 Personal Production Devices	yes	

	CIFICATION / DESCRIPTIO	NS	Requirement	Tenderer Specifications Offered
Make/ty			USCG approved	USCG approved
Quantit	y:	no.	140 jackets	158 jackets
L.8.5	Survival Suits		No	No
Make/ty				
Quantit	y:	no.		
Make/ty				
Quantit	y:	no.		
L.8.6	Life Ring Buoys			
Make/ty	/pe		Billy Pugh	Billy Pugh
Quantit		no.	14	14
with	lights:	no.	6 no.	6 no.
	smoke:	no.	4 no.	4 no.
with	EPIRB:	no.	N/A	N/A
L.8.7	Work Vests		Yes	
Quantit	y:	no.	20 ea	20
L.8.8	Escape Ladders/Nets		yes	Yes
Make/ty	ne.		Scramble Net	Scramble Net.
Quantit		no.	2	2
Make/ty				Coomar/Escape ladder
Quantit	y:	no.		2
Make/ty	/pe:			
Quantit		no.		
М.	POLLUTION PREVENTION	I EQUIPMENT		
M.1.	SEWAGE TREATMENT		yes	
Make/m	odel:			Omni pure
System				12 MX MP
M.2	GARBAGE COMPACTION		No	Yes
Make/m				Enviro Pak B30
System				Environ all boo
Make/m	nodel:			
System	type:			
М.3	GARBAGE DISPOSAL/GR	INDER		
		<b></b>		
				DED 0047/040D 50
Makala	odal·		I Vos	
Make/m System			Yes	RED GOAT/ C10P-F3 Waste Disposal Unit.

SPECIFICATION / DESCRIPTIONS		Requirement	Tenderer Specifications Offered
M.4 INCINERATOR			No
Make/model: System type:			
M.5 OILY WATER SEPARATOR			
Quantity: Make/model:	no.	Yes	1 Compass Water solution
System type: Nominal throughput:	gpm		Ultrasep Model 2000-TPK4 2 M3/h