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INTERNATIONAL ASSOCIATION OF DRILLING CONTRACTORS
STANDARD FORMAT EQUIPMENT LIST
KS JAVA STAR
JACK-UP DRILLING UNITS

NOTE: All equipment listed hereunder shall be operated and maintained at all times in compliance with Contractor's standard operating manuals, policies and procedures. Operational limits and/or continuous rated capacity referenced therein shall be strictly observed, in order to assure maximum operational efficiency. Exemptions, allowing certain limits or ratings to be exceeded on a temporary basis, shall be subject to mutual agreement in writing, with Operator (Company) assuming all liability for loss or damage, or any related downtime.

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UNIT NAME:		KS JAVA STAR
A. UNIT SPECIFICATIONS		
Rig Type:		Jack-up
Unit/Design/Shape:		Friede and Goldman L-780 Mod 0 Hull #188
Unit Flag:		Marshall Island.
Unit Classification:		ABS
IMO Certification:		Yes
Which Code Version:		1979
Year of Construction:		1981
Construction Yard:		FELS. Singapore
Last SPS:		October 2012
A.1. MAIN DIMENSIONS/TECHNICAL DESCRIPTION		
Light ship:	lt	15,253.5 kips
Displacement at loadline:	lt	9,327 st 18,654.38 kips (with cans flooded) 20,243.00 kips (with cans buoyant)
Overall length of unit (including helideck):	ft	277 ft
Overall width of unit (including anchor racks):	ft	193 ft 6 in
Hull length:	ft	180 ft
Hull width:	ft	175 ft
Hull depth:	ft	25 ft
Number of legs/length:	no x ft	3 x 406 ft including spud cans & 5 ft point, 401.8 ft less point 357'8 ft (include spud cans)
Leg length available below hull:	ft	Triangular
Type of leg:		
Leg spacing (centre to centre):		
Transverse:	ft	120 ft
Longitudinal:	ft	115 ft
Independent leg or matt:		Leg
Spud can diameter/bearing area:	ft x ft ²	39 ft 8 in x 39 ft 8 in / 1169 each
Spud can height:	ft	20 ft
Spud can jetting system:	yes/no	Yes
Bottom jets:	yes/no	Yes
Top jets:	yes/no	N/A
Mat dimensions:		N/A
Length:	ft	N/A
Width:	ft	N/A
Cantilever or slot:		Cantilever
Skid-off:	yes/no	No
Cantilever envelope:		
Reach AFT, from/to:	ft/ft	0 ft / 40 ft
Transverse, port/STB:	ft/ft	10 ft / 10 ft
Slot dimensions:		
Length:	ft	N/A
Width:	ft	N/A
Mat slot dimensions:		
Length:	ft	N/A
Width:	ft	50 ft
Max. cantilever load:		
(combined hook + rotary + setback):	st	500 st (1000 kips)
Max. rotary load:	st	375 st (750 kips)
Max. setback load:	st	225 st (450 kips)
Fuel consumption (avg. drilling):	bbl/day	20 bbl/day for each engine
Accommodation for maximum no. personnel:	no	100
See K.2.1.):		

A.2. STORAGE CAPACITIES		
Fuel:	bbl	2259 bbls
Drilling Water:	bbl	5600 bbls
Potable water:	bbl	1041 bbls
Liquid Mud:	bbl	1713 bbls
Independent base oil storage:	bbl	Yes
Independent brine storage:	bbl	N/A
Heavy brine accepted (e.g. bromide):	yes/no	No
Bulk bentonite/barite (see F.3):	ft ³	4800 ft ³
Bulk Cement (see F.3):	ft ³	4800 ft ³
Sack storage:	sacks	3000 sacks
Pipe rack:	ft ²	3068 ft ²
Upper racks dimensions:	ft x ft	59 ft x 52 ft
Maximum load capacity:	lb/ft ²	540 lb/ft ²
Lower rack dimensions:	ft x ft	20 ft x 32 ft
Maximum load capacity:	lb/ft ²	540 lb/ft ²
Other rack: Main Deck Stbd	ft x ft	20 ft x 32 ft
Maximum load capacity:	lb/ft ²	425 lb/ft ²
Other rack:	ft ²	20 ft x 30 ft
Maximum load capacity	lb/ft ²	425 lb/ft ²
Miscellaneous storage area:	ft ²	425 ft ²
Operator storage area:	ft ²	425 ft ²
Preload capacity:	kips	11,099.6 kips
Time to fill and dump preload	hrs	9.5 hrs + 2 hrs holding + 1.5 dumping
A.3. JACKUP SYSTEMS		
A.3.1. Jacking Systems		
Make/type:		NOV NS 400
No. of jacks or pinions:	no	36
Maximum jacking load:	kips	480 kips/pinion ; 5760 kips/leg ; 17,280 kips total
Jacking speed	ft/min	1.1 ft/min raising + 1.3 lowing
Rack chocks available:	yes/no	Yes
Required for field tow:	yes/no	No
Required for ocean tow	yes/no	Yes
A.3.2. Raw Water Systems		
Tulsa Reel Location		3 Tulsa Reel on Port Leg
Pump location (water tower or leg):		3 Pumps Hang Off On Port Leg
Hose distance below hull (max):	ft	85 ft of 6 in
Hose (ID)	in	6 in (152.4 mm)
Pressure Suction Hose	psi	150 psi
Electric cable below hull (max)	ft	85 ft
Bitter end safety cable below hull (max)	ft	85 ft
Reel Weight (empty hose):	st	6,200 kg drive
(Pneumatic):	cfm	280 SCFM
Pressure:	psi	80 to 120 psig
Salt water service pump:		
Quantity:	no	3
Make/type:		Offshore EMU K146

Capacity: @ pressure: Horsepower:		U.S gpm psi hp	36 bbl/min – 1500 GPM 150 psi 100 HP
Dedicated preload pump: Quantity: Make/type:	no		N/A
A.4. OPERATIONAL CAPABILITIES			
Maximum design water depth capability:	ft	300 ft nominal	
Outfitted max/min water depth capability:	ft	300 ft	
Normal minimum water depth capability:	ft	20 ft	
Draft at load line (deepest):	ft	15 ft	
Drilling depth capability (rated):	ft	11,000 ft (Upgradeable to 17,000 ft with cantilever load limitations refer to load chart)	
Transit speed towed (historical avg):	knots	4 knots	
Leg (spud can) below hull in transit:	ft	11 ft 6 in field tow	
Maximum leg length permitted in tow:			
Ocean tow:	Ft	9 ft 3 in	
Field tow:	ft	11 ft 6 in	
Number of tugs for field tow:	no	2	
Associated minimum bollard pull per tug:	lt	65 st	
Anti-roll system:	yes/no	N/A	
Maximum preload reaction per leg:	lt	8798 kips	
Bearing pressure at maximum preload:	lb/ft ²	7.52 kips/ft	
Thrusters:	yes/no	N/A	
Quantity:	no	N/A	
Fixed/Azimuthing:		N/A	
Total horse power per thruster	hp	N/A	
Max operating air gap if unit fully equipped	ft	60 ft due to lifeboats falls	
A.5. VARIABLE LOAD CAPACITY (V/L) (Exclusive of Drilling Loads)			
Transit VL capacity:	lt	3403 kips	
Drilling VL capacity:	lt	4486 kips	
Survival VL capacity:	lt	3169 kips	
Jacking VL capacity:	lt	4456 kips	
A.6. ENVIRONMENTAL LIMITS			
Survival:			
Air gap (below bottom of main hull):	ft	37 ft	
Max. wave height:	ft	49 ft	
Max. wave period:	sec	13.5 sec	
Max. wind velocity:	knots	100 knots	
Max. current velocity:	knots	10 knots	
A.7. MOORING SYSTEM			
A.7.1. Anchor Winches			
Control locations (local/remote/both)			
Quantity	no	Local 4 each nos.	
Make/Model		AC Hoyle Model MW 150 E	
Type (electric/hydraulic/diesel)		Electric	
Rated pull	lt	36,000 lbs	
Total HP per winch:	hp	50 hp	

A.7.2. Fairleads			
Quantity:	no	2 each	
Make/type:		AC Hoyle Model X-113-1250	
Quantity:	no	2 each	
Make/Type:		Smith Berger Marine Inc. / MD618	
A.7.3. Wire Anchors			
Quantity (installed + spare)	no	4	
Make/Type		IWRC, Right Hand Reg. Lay	
Construction:		6 x 26 (WS)	
Diameter:	in	1-1/2 in	
Useful length (nominal):	ft	2,500 ft	
A.7.4. Anchors			
Quantity:	no	4 each	
Make/Type:	lt	Baldt	
Weight:		10,000 lbs	
A.7.5. Buoys			
Quantity:	no	4 each	
Make/Type:		Styrofoam filled for use in 300 foot of water	
A.7.6. Towing Gear			
Towing bridle size	in	3 in	
Hook-up system		10 Chain Links 17-1/4 Long 3 Wide + 1 by 3 in Master Link, same size as chain	
Hoist:		Under Heliport	
Rating:	lt	200K lbs	
Spare bridle:	yes/no	Yes	
A.7.7. Supply Vessel Mooring System			
System description:	lt	Poly + Nylon	
Rating:		112K lbs	
Location (port/stbd/both):		Both	
A.8. MARINE LOADING HOSES			
Location of loading manifolds (port/stbd/both):		Both	
A.8.1. Potable Water Hoses			
Quantity:	no	2	
Size:	in	2 in	
Make/type:		Gates	
Color coding:	yes/no	No	
Make/type connection:		Hammer Union	
A.8.2. Drilling Water Hose			
Quantity:	no	2	
Size:	in	4 in	
Make/type:		Gates	
Color coding:	yes/no	No	
Make/type connection:		Hammer Union	
A.8.3. Gas Oil Hose			

Quantity:		no	2
Size:		in	3 in
Make/type:		yes/no	Gates
Color coding:			No
Make/type connection:			Hammer Union
A.8.4. Mud Chemical Hoses			
Quantity:		no	2
Size:		in	4 in
Make/type:		yes/no	Gates
Color coding:			No
Make/Type Connection			Hammer Union
A.8.5. Cement Hose			
Quantity:		no	2
Size:		in	4 in
Make/type:		yes/no	Gates
Color coding:			No
Make/type connection:			Hammer Union
A.8.6. Base Oil Hose			
Quantity:		no	1 – On Port Side
Size:		in	3 in
Make/type:		yes/no	Gates
Color coding:			No
Make/type connection:			Hammer Union
A.8.7. Brine Hose			
Quantity:		no	N/A
Size:		in	N/A
Make/type:		yes/no	N/A
Color coding:			N/A
Make/type connection:			N/A
A.8.8. Other			
Use:		no	Jet Hoses
Quantity:		in	3
Size:		yes/no	2 in
Make/type:			Goodyear
Color coding:			No
Make/Type connection:			Hammer Union, Weco Fig. 1502
A.9. CRANES, HOISTS, AND MATERIAL HANDLING			
A.9.1. Cranes, Revolving			
Quantity:		no	1
Specification (API, etc.):			ABS
Make:			Seatrax
Model:			S7216
Location (stbd, port, aft, frwd):			Port
Boom length:	ft		110 ft
Hook reach below main deck (block/whip):	ft/ft		100 ft / 100 ft
Block capacities and hoisting speeds:			
Load/radius/speed (minimum radius):	st/ft/(ft/sec)		56.06 mt – 82 deg (15 ft)
Load/radius/speed (maximum radius):	st/ft/(ft/sec)		10.54 mt – 4 deg (109 ft)
Whip capacity/hoist speed:	st/ft/(ft/sec)		13.79 mt 37 deg to 82 deg single line (87'

Hook load indicator automatically corrected for boom angle:	yes/no	- 15')
Alarm (audible/visual/both):	yes/no	Both
Automatic brake:	yes/no	Yes
Safety latch on hooks:	yes/no	Yes
Crown saver (limit switch):	yes/no	Yes
Boom illumination:	yes/no	Yes
Quantity:	no	1
Specification (API, etc.):		ABS
Make:		Seatrax
Type:		S7216
Location (stbd, port, aft, frwd):		Starboard
Boom length:	ft	110 ft
Hook reach below main deck (block/whip):	ft/ft	110 ft / 100 ft
Block capacities and hoisting speeds:		
Load/radius/speed (minimum radius):	st/ft/(ft/sec)	56.06 mt – 82 deg
Load/radius/speed (maximum radius):	st/ft/(ft/sec)	10.54 mt – 4 deg
Whip capacity/hoist speed:	st/ft/(ft/sec)	13.79 mt 37 deg to 82 deg single line
Hook load indicator automatically corrected for boom angle:	yes/no	Yes
Alarm (audible/visual/both):		Both
Automatic brake:	yes/no	Yes
Safety latch on hooks:	yes/no	Yes
Crown saver (limit switch):	yes/no	Yes
Boom illumination:	yes/no	Yes
A.9.2. Forklifts		
Quantity:	no	1
Make/type:		Toyota 8FBN25 Electric
Rated capacity:	It	2000 kg
Explosion Proof:	yes/no	No
A.9.3. Monorail Overhead Cranes		
Quantity:	no	N/A
Make:		N/A
Type:		N/A
Rated capacity:	It	N/A
Locations(s):		N/A
A.9.4. Air Hoist/Derrick Winches		
A.9.4.1. Rig Floor Winches (Non Man-Riding)		
Quantity:	no	1
Make:		Ingersoll Rand
Type:		K5UL
Rated capacity:	It	
Wire diameter:	in	5/8 in
Automatic brake:	yes/no	No
Overload protection:	yes/no	No
Automatic spooling:	yes/no	No
Quantity:	no	1
Make:		Ingersoll Rand
Type:		Model FA5A-SXK1
Rated capacity:	It	10,000 lbs
Wire diameter:	in	¾ in
Automatic brake:	yes/no	Yes
Overload protection:	yes/no	No
Automatic spooling:	yes/no	No

Quantity:	no	1
Make:		Ingersoll Rand
Type:		Force 5 Model FA5A-24XK1
Rated capacity:	It	10,000 lbs
Wire diameter:	in	¾ in
Automatic brake:	yes/no	Yes
Overload protection:	yes/no	No
Automatic spooling:	yes/no	No
 <i>Casing stabbing board</i>		
Quantity:	no	1
Make:		Ram winch
Type:		254-8abpt
Rated capacity:	It	0.7 tons
Wire diameter:	in	3/8 in
Automatic brake:	yes/no	Yes
Overload protection:	yes/no	No
Automatic spooling:	yes/no	No
A.9.4.2. Monkey Board Work Winch		
Quantity:	no	2
Make:		Ingersoll Rand
Type:		Liftstar utility
Rated capacity:	It	1.65 st
Wire diameter:	in	3/8 in
Automatic brake:	yes/no	Yes
Overload protection:	yes/no	No
Automatic spooling:	yes/no	Yes
A.9.4.3. Rig Floor		
Quantity:	no	2
Make:		Ingersoll Rand
Type:		Man Rider FA150KGi-MR12
Rated capacity:	It	150 kg
Wire diameter:	in	10 mm
Non-twisted wire:	yes/no	Yes
Automatic brake:	yes/no	Yes
Overload protection:	yes/no	Yes
Automatic spooling:	yes/no	Yes
Certified for man-riding:	yes/no	Yes
A.9.4.4. Utility Winch (i.e. Deck Winch)		
Quantity:	no	3
Make:		Ingersoll Rand
Type:		K4U
Rated capacity:	It	
Wire diameter:	in	½ in
Automatic brake:	yes/no	No
Overload protection:	yes/no	No
Automatic spooling:	yes/no	No
Certified for man-riding:	yes/no	No
Locations:		Bow, Port, Stbd
Quantity:	no	1
Make:		Ingersoll Rand
Type:		K5UL
Rated capacity:	It	10,000 lbs
Wire diameter:	in	¾ in
Automatic brake:	yes/no	No
Overload protection:	yes/no	No
Automatic spooling:	yes/no	No
Certified for man-riding:	yes/no	No

Locations:		no	Bow for towing bridle 2
Quantity:			Ingersoll Rand FA5A-24XKI
Make:			10,000 lbs
Type:	It		¾ in
Rated capacity:	in		No
Wire diameter:	yes/no		No
Automatic brake:	yes/no		No
Overload protection:	yes/no		No
Automatic spooling:	yes/no		No
Certified for man-riding:	yes/no		No
Locations:			BOP Deck port & stb
A.9.4.5. BOP Hoists (see E.10.1)			
A.9.5.1. Personnel Transfer Baskets			
2-Billy Plough (4 Men) Ridgid Type model X-904			
A.9.5.2. Cargo Containers			
Quantity:			Qty 4 X 20ft Container Used For Storage
Make/type:			Qty 2 X Grey Offshore Shipping Basket
			Qty 2 X Grey Offshore Shipping Container
			Qty4 X Closed Waste Basket 1.20 X 1.20 X 1.00 Mtr < 700 Kgs >.
			Qty4 X Closed Waste Basket 2.00 X 1.80 X 1.20 Mtr < 1200 Kgs >
			Qty 4 X Closed Waste Basket 1.35 X 1.35 X 1.30 Mtr < 700 Kgs >.
A.10. HELICOPTER LANDING DECK			
Location (fwd/aft/port/stbd):			Bow Side – Cap 437
Dimensions:			65 ft diameter. Overall length 72' 10"
Perimeter safety net:	ft/ft		Yes
Deck Load capacity:	yes/no		42 lb/ft ²
Maximum helicopter weight:	lb/ft ²		9,300 Kgs (20.5 Kips)
Designed for helicopter type:	Kg (Kips)		Sikorsky S-61N
Tie down points:	yes/no		Yes
Covered by foam fire system (see L.3.6):	yes/no		Yes
Unobstructed approach			210 deg
A.10.1. Helicopter Refueling System			
System make/type:			N/A
Fuel storage capacity:	U.S. gal		N/A
Jettisonable:	yes/no		N/A
Fuel transport container, quantity:	no		N/A
Volume:	U.S. gal		N/A
Fuel transport containers:	no		N/A
Volume:	U.S. gal		N/A
Covered by foam fire system (see L.3.6):	yes/no		N/A
A.11. AUXILIARY EQUIPMENT			
A.11.1. Water Distillation			
Quantity:	no		1
Make/type:			Alfa Laval JWP-36-C-100 DE
Capacity (Each/Total):	U.S. gal/day		34 Cu.m/day
Quantity:	no		1

Make/type: Capacity (Each/Total):		U.S. gal/day	Alfa Laval DPU 36-C100 34 Cu.m/day
A.11.2. Boilers			
Quantity: Make/type: Capacity (total system):	no U.S. gal/day	2 Bradford-White Corporation / Electric 238 Gal	
A.11.3. Air Conditioning			
Make/type: Capacity (total system): Max. temperature rating:	tons F	Carrier 5 GA 5F60 40 HP (19 ton) 120°F	
A.11.4. Electric Welding Sets			
Quantity: Current capacity: Make/model: Type (fixed/portable):	no amp	2 400 amps Lincoln SAE-400 Fixed	
Quantity: Current capacity: Make/model: Type (fixed/portable):	no amp	1 450 amps, continuous Cyberanc 452, Hobart Fixed	
A.11.5. High Pressure Cleaner			
Quantity: Make/type:	no	1 Sioux & 2 Graco	
Electric/pneumatic/diesel: Max delivered pressure: With steam:	psi yes/no	Sioux EXP EN-270-h4-3000 – Explosion proof Hydra Clean / Model247549 Electric / Pneumatic 3,000 psi / 4500 psi Yes / No	
B.1. DERRICK AND SUBSTRUCTURE			
B.1.1. Derrick/Mast			
Make/type: Rated for wind speed With full set back: With no set back: Height: Dimensions of base: Dimensions of crown: Gross nominal capacity: Static hook load: Maximum number of lines: Ladders with safety cages and rests: Platform for crown sheave access: Counter balance system for rig tongs and pipe spinning tong: Lightning system explosion proof:	knots knots ft ft x ft ft x ft lbs lbs no yes/no yes/no yes/no yes/no	Pyramid API STD. 4E 135 mph 160 mph 157 ft with ext. Top Drive 30 ft x 30 ft 7 ft 8 inch x 6 ft 9 inch 1,333,000 lbs 1,000,000 lbs 12 Yes Yes Yes Yes	
B.1.2. Racking Platform			
Make/Type: Racking platform capacity of 5 in DP to 5-1/2 inch DP:	ft	93 Stands for 5 in DP. 5-1/2 in 110 stands (upgradeable to 180 stands)	

Racking platform capacity of 8 inch DC: Racking platform capacity of 6-1/2 inch DC: Tubing belly board:		ft yes/no	40 stands w/ 80 stands 5-1/2 inch DP in Derrick (upgradeable to 55 stands w/ 125 stands 5-1/2 inch DP in Derrick) 6 stands (with no other DC's) 6 stands (with no other DC's) Yes
B.1.3. Automated Pipe Handling			
Make/type: Description:			N/A N/A
B.1.4. Casing Stabbing Board			
Make/type: Adjustable from/to height above rotary:	ft/ft		Paramode 20 ft / 50 ft Paramode Simi Storable
B.1.5. Substructure			
Make/type: Drill floor height (above main deck): Length: Width: Setback capacity: Simultaneous setback + hook load capacity: Clear height below rotary table beams (to main deck):	ft ft ft kips kips ft		Friede & Goldman 30 ft 8 inch 45 ft 6 inch 51 ft 450 kips 1,000 kips maximum 25 ft 10 inch
B.1.6. Weather Proofing			
Rig floor windbreaks: Derrickman windbreaks: Around process pits:			Yes – Partially enclosed N/A Yes
B.1.7. Derrick TV Camera System			
Camera located at: Make/type: Zoom/Pan/Tilt-function: Monitor located at:	yes/no		Monkey Board and Stabbing Board Hernis Color Camera PT9 Yes Driller Console
B.2. DRAWWORKS AND ASSOCIATED EQUIPMENT			
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 (disk/drum): Maximum line pull 12 lines: Maximum line pull 10 lines: Maximum line pull 8 lines: Makeup cathead type: Breakout cathead type: Crown block safety devices: Make/type: Independent fresh water cooling system for drawworks and electric brake: Automatic driller: Make/type:	no hp in x in in lbs lbs lbs yes/no yes/no yes/no		National 1320 UE G.E. 752 2 2,000 hp 14 inch x 57 inch Grooved 1-3/8 inch Drum 940,000 lbs 805,000 lbs 660,000 lbs National Type B-1 National Type B-1 Yes Koomey – Air Yes NA NA

B.2.2. Auxilliary Brake			NOV Elmagco 7838 Eddy Current Brake 7838 Type # PWM – 20 Baylor Battery Back-up
Make:			
Model:			
Independent back-up system type:			
B.2.3. Sandline			
Make:		ft	N/A
Length capacity:		in	N/A
Line size/type:			N/A
B.2.4. Wireline			
Make/model:		ft	Mathey GCS B2
Wire length (nominal):		in	15,000 ft
Wire size:		yes/no	0.092 inch
Depth counter:		yes/no	Yes
Pull indicator:			N/A
B.3. DERRICK HOISTING EQUIPMENT			
B.3.1. Crown Block			
Make/type:			Pyramid 650
Rated capacity:		st	650 st
No. of sheaves:		no	7
Sheave diameter:		in	60 in
Sheave grooved for line size:		in	1-3/8 in
B.3.2. Traveling Block			
Make/type:			National 760-G-650
Rated capacity:		st	500 st
No. of sheaves:		no	7
Sheave diameter:		in	60 in
Sheave grooved for line size:		in	1-3/8 in
B.3.3. Hook			
Make/type:		st	N/A
Rated capacity:		yes/no	N/A
Complete with spring assembly/hook locking device:			N/A
B.3.4. Swivel			
Make/type:			N/A
Rated capacity:		st	N/A
Test/working pressure:		psi/psi	N/A
Gooseneck and washpipe minimum ID:		in	N/A
Left hand pin connection type:		yes/no	N/A
Access fitting for wireline entry on top gooseneck:		yes/no	N/A
B.3.5. Drilling Line			
Diameter:	in		1-3/8 in
Construction:			6 x 36 IWRC RHRL
Length (original):	ft		7,500 ft
Drilling line reel:			
Drum cover:	yes/no		Yes
Drilling line drum power driven:	yes/no		No
Spare drilling line:	yes/no		Yes

Location (rig, shore, etc.): Roller guides:	yes/no	Yes (shore) Yes
B.3.6. Dead Line Anchor		
Make/type: Weight sensor: Deadline dampener:	yes/no yes/no	National E.B Yes No
B.3.7. Block Guidance System		
Make/type:		N/A
B.4. ROTATING SYSTEM		
B.4.1. Rotating Table		
Make/type: Maximum opening: Two speed gearbox: Emergency chain drive: Driven by an independent electric motor: Electric motor type/make: Output power: Maximum continuous torque: Drip pan/mud collection system: Static load rating:	in st yes/no yes/no yes/no hp ft/lbs yes/no st	Oilwell B-37.5 37-1/2 Yes No Yes GE-752 800 hp @ 800 amp 27,840 ft/lbs Yes 650 tons
B.4.2. Rotating Mousehole	no	1 Phantom Model 1994
Quantity: Make/model:		
B.4.3. Master Bushings		
Make/type: Insert bowls (see G.1.8):		Oilwell 6660 MPCH 39-1/2 split Varco size #1, #2 & #3
B.4.4. Kelly Bushing		
Make/type: Lock down assembly:	yes/no	N/A N/A
B.4.5. Top Drive		
Make: Type (electric/hydraulic): Rated capacity: Test/working pressure: Output power:	st psi/psi hp ft.lbs	Varco TDS-4S Electric 650 st 5,000 psi / 5,000 psi GE 752 Shunt Motor High Torque 1,100 hp
Maximum continuous torque:		Low gear 45,500 ft-lbs @ 120 rpm High gear 29,100 ft-lbs @ 120 rpm 39,500 ft lbs intermittent with 205 amps
Two speed gear box: Maximum rotary speed: Remote operated kelly cock: Cooling system type: Upper inside BOP (see also D.1.15)	yes/no rpm yes/no	Yes 205 rpm Yes Air
Quantity: Make/type: Working pressure: Max. OD body: Max. ID body:	no psi in in	2 Varco WP 5000 and test 15,000 psi 8-1/4 in 3 in

Connection type (box):		7-5/8 API REG
B.4.4.1. Top Drive Makeup/Breakout System		
Make/type:		Varco
Model:		PH-85
Max. makeup torque:	ft/lbs	85,000 ft-lbs
Max. breakup torque:	ft/lbs	85,000 ft-lbs
Raised backup system:	yes/no	No
C. POWER SUPPLY SYSTEMS		
C.1. RIG POWER PLANT		
C.1.1. Diesel Engines		
Quantity:	no	3
Make/type:		Caterpillar D-399
Maximum continuous power:	hp	1,200 hp
At rotation speed of:	rpm	1,200 rpm
Equipped with spark arrestors:	yes/no	Yes
Mufflers installed:	yes/no	Yes
Quantity:	no	2
Make/type:		Caterpillar 3512C
Maximum continuous power:	hp	1,475 hp
At rotation speed of:	rpm	1,200 rpm
Equipped with spark arrestors:	yes/no	
Mufflers installed:	yes/no	
C.1.2. DC- Generator		
Quantity:	no	N/A
Make/type:		N/A
Continuous power:	kW	N/A
At rotation speed of:	rpm	N/A
Output volts:	volts	N/A
C.1.3. AC – Generator		
Quantity:	no	5
Make/type:		Kato 20802
Continuous power:	kW	1,050 kW
At rotation speed of:	rpm	1,200 rpm
Output volts:	volts	600 volts
C.1.4. SCR System		
Number of SCR:		4
Make/Type:		Ross-Hill 1501
Maximum continuous power (total):		Drawworks 1,100 HP (825 kW) Rotary Table 800 HP (600 kW) Mud Pumps 1,600 HP (1,200 kW)
Output volts:		0-750 VDC
C.1.5. Transformer System		
Quantity:	no	2
Make/type:		Olsun Electric Corp
Continuous power (each):	kW	1000 / 1333 kVA 3 Ph
Output volts:	volts	600/480 volts, 962/1203 @ 80 degrees
Frequency:		60 Hz
C.1.6. Emergency Shutdown		

<p>Emergency shutdown switches for the complete power system (AC & DC), located at the following points:</p> <p>C.1.7. Compressed Air Systems</p> <p>Air Compressors – Cold Start:</p> <p>Quantity: no Make: 1 Model: Quincy QR-25 Rated capacity: ft³/min Working pressure: psi Prime mover (electric/diesel): 25 Cu ft/min Continuous power: hp Diesel</p> <p>Air Compressors – Medium Pressure (rig air):</p> <p>Quantity: no Make: 3 Model: Quincy QSI – 500 Rated capacity: ft³/min Working pressure: psi Prime mover (electric/diesel): 554 Cu ft/min Continuous power: hp Electric 120 psi 125 hp</p> <p>Air dryers:</p> <p>Quantity: no Make: 1 Model: Sullair DHL-1500 Rated capacity: ft³/min 1500 scfm</p> <p>Air Compressors – Low Pressure (bulk air):</p> <p>Quantity: no Make: 1 Model: Quincy QSL P100 WNW3B Rated capacity: ft³/min Working pressure: psi Prime mover (electric/diesel): 712 cu/ft min @ 38 psi Continuous power: hp Electric 38 psi 100 HP</p> <p>Air dryers:</p> <p>Quantity: no Make: 1 Model: Pioneer R1600 W Rated capacity: ft³/min 1600 cfm @ 200 psi</p> <p>C.1.8. Air Receivers</p> <p>Volume (total): ft³ Pressure: psi Location: 2,500 liters 11.38 bars / 14.79 bars (165 / 215 psi) Compressor room</p> <p>Volume (total): ft³ Pressure: psi Location: 12.68 Cu ft 200 psi Top of shed on rig floor</p>		<p>T.P. office + Rig Floor</p>
<p>C.2. EMERGENCY GENERATOR</p> <p>C.2.1. Engine</p> <p>Quantity: no Make/Type: 1 Caterpillar D 353-E 6 Cylinder S/N 46B8690</p> <p>Maximum output: hp At rotation speed: rpm Automatic starting: yes/no Starting methods (air, hydraulic, battery): Yes Battery Max. angle of operation: degrees Approx. 15 degrees</p>		

C.2.2. AC - Generator			
Quantity:	no	1	
Make/type:		Caterpillar SRCR	
Maximum output:	kW	320 kW	
At rotation speed:	rpm	1200 rpm	
Output:	volts	460 volts	
Capable of back-feeding power to main bus:	yes/no	Yes	
D. DRILLSTRING EQUIPMENT			
D.1. TUBULARS			
D.1.1. Kellys			
Quantity:	no	N/A	
Normal size OD:	in	N/A	
Shape type (hexagonal, square, triangular):		N/A	
Total/working length:	ft/ft	N/A	
Connection type:		N/A	
D.1.2. Kelly Saver Subs			
Quantity	no	N/A	
Nominal kelly size:	in	N/A	
Connection type:		N/A	
Protector:		N/A	
D.1.3. Drill Pipe			
Drill pipe OD:	no	5-1/2"	
Grade:	in	S135	
Total length:	ft	9,000 ft	
Range:		2	
Weight:		21.9 lbs/ft	
Internally plastic coated:	yes/no	Yes	
Tool joint OD/ID:	in/in	7" in ID 4"	
Tool joint pin length (original):	in	12"	
Tapered shoulder tool joints (box/pins):		18 degrees	
Connection type:		GPDS-55	
Type of hard facing:		TCS-Ti or equivalent	
API classification:		Premium	
Thread protectors:	yes/no	Yes	
Drill pipe OD:	no	5	
Grade:	in	S135	
Total length:	ft	8,650 ft	
Range:		2	
Weight:	lbs/ft	19.5 lbs/ft	
Internally plastic coated:	yes/no	Yes	
Tool joint OD/ID:	in/in	6-1/2" in ID 2-3/4"	
Tool joint pin length (original):	in	9-1/2" in	
Tapered shoulder tool joints (box/pins):		18 degrees	
Connection type:		4-1/2 IF	
Type of hard facing:		Hardbanding Pinnchrome	
API classification:		Premium	
Thread protectors:	yes/no	Yes	
Drill pipe OD:	no	3-1/2 In	
Grade:	in	S135	
Total length:	ft	10,150 ft	
Range:		2	
Weight:	lbs/ft	13.3 lbs/ft	
Internally plastic coated:	yes/no	Yes	

Tool joint OD/ID: Tool joint pin length (original): Tapered shoulder tool joints (box/pins): Connection type: Type of hard facing: API classification: Thread protectors:	in/in in yes/no	5 in x 2.125 in 10 in 18 degrees NC 38 Arnco XT-300 or equivalent Premium Yes
D.1.4. Drill Pipe Pup Joints		
Tool joint OD/ID: Grade: Length: Quantity: Length: Quantity: Length: Quantity: Weight: Connection type: Internally plastic coated: API classification: Thread protectors:	in/in in ft no ft no ft no lbs/ft yes/no yes/no	7 in x 4 in AISI 4145H 5 ft 2 10 ft 2 15 ft 2 21.9 lbs/ft GPDS 55 Yes Premium Yes
Tool joint OD/ID: Grade: Length: Quantity: Length: Quantity: Length: Quantity: Weight: Connection type: Internally plastic coated: API classification: Thread protectors:	in/in in ft no ft no ft no lbs/ft yes/no yes/no	3-1/2 in x 2-1/4 in S135 5 ft 2 10 ft 2 15 ft 2 13.3 lbs/ft NC 38 Yes Premium Yes
Initial stock: Make/type: OD: Installation tools (manual/hydraulic/none):	no in	N/A N/A N/A N/A
D.1.5. Drill Pipe Casing Protectors		
Quantity: Nominal size OD: Weight: Tool joint OD/ID: Type of hard facing: Internally plastic coated: Connection type: Thread protectors:	no in lbs/ft in/in yes/no yes/no	100 joints 5-1/2 in 50 lbs/ft 7 in x 3-3/4 in Arnco 100XT Yes GPDS-55 Yes
Quantity: Nominal size OD: Weight: Tool joint OD/ID: Type of hard facing: Internally plastic coated: Connection type: Thread protectors:	no in lbs/ft in/in yes/no yes/no	27 joint (Transfer to Duri) 5 in 42 lbs/ft 6-1/2 in x 3 in Pinnchrome Hardbanding Yes NC 50 Yes

Quantity:		no	75 Joints
Nominal size OD:		in	3-1/2 in
Weight:		lbs/ft	24.59 lbs/ft
Tool joint OD/ID:		in/in	5 in x 2-1/4 in
Type of hard facing:		yes/no	Arnco 300 XT
Internally plastic coated:		yes/no	Yes
Connection type:		yes/no	NC 38
Thread protectors:		yes/no	Yes
D.1.7. Drill Collars			
Quantity:		no	13
OD body:		in	8 in
ID body:		in	2-13/16 in
Nominal length of each joint:		ft	31 ft
Drill collar body (slick/spiral):			Spiral
Recess for "zip" elevator:	yes/no		Yes
Recess for slips:	yes/no		Yes
Stress relief pin groove:	yes/no		Yes
Boreback on box:	yes/no		Yes
Connection type:			6-5/8 REG
Quantity:		no	15
OD body:		in	6-1/2 in
ID body:		in	2-1/4 in
Nominal length of each joint:		ft	30 ft
Drill collar body (slick/spiral):			Spiral
Recess for "zip" elevator:	yes/no		Yes
Recess for slips:	yes/no		Yes
Stress relief pin groove:	yes/no		Yes
Boreback on box:	yes/no		Yes
Connection type:			4-1/2 IF
Quantity:		no	30
OD body:		in	4-3/4 in
ID body:		in	2-1/2 in
Nominal length of each joint:		ft	31 ft
Drill collar body (slick/spiral):			Spiral
Recess for "zip" elevator:	yes/no		Yes
Recess for slips:	yes/no		Yes
Stress relief pin groove:	yes/no		Yes
Boreback on box:	yes/no		Yes
Connection type:			NC-38
D.1.8. Short Drill Collars			
Quantity:		no	N/A
OD body:		in	N/A
ID body:		in	N/A
Nominal length of each joint:		ft	N/A
Stress relief pin groove:	yes/no		N/A
Boreback on box:	yes/no		N/A
Connection type:	yes/no		N/A
D.1.9. Non-Magnetic Drill Collars			
Quantity:		no	N/A
OD body:		in	N/A
ID body:		in	N/A
Average length of each joint:		ft	N/A
Drill collar body (slick/spiral):			N/A
Recess for "zip" elevator:	yes/no		N/A
Recess for slips:	yes/no		N/A
Stress relief pin groove:	yes/no		N/A
Boreback on box:	yes/no		N/A
Connection type:			N/A

D.1.10. Core Barrels		
Quantity:	no	N/A
Make:		N/A
Model:		N/A
Size OD/ID:	in/in	N/A
Length:	ft	N/A
Top connection type:		N/A
Spiral stabilizing ribs:		N/A
Subs and handling tools:		N/A
D.1.11. Stabilizers		
Hole size:	in	N/A
Quantity:	no	N/A
Make:		N/A
OD blades:	in	N/A
Type blades		N/A
(straight/spiral/welded/integral/sleeve):		N/A
Type of blade hard facing:		N/A
OD body or fishing neck:	in	N/A
ID body:	in	N/A
Connection type:		N/A
Float valve receptacle:	yes/no	N/A
D.1.12. Roller Reamers		
Hole size:	in	N/A
Quantity:	no	N/A
Make:		N/A
OD body:	in	N/A
ID body:	in	N/A
OD fishing neck:	in	N/A
Cutters, supplied sets:	no	N/A
Cutters, type:		N/A
Connection, type:		N/A
D.1.13. Shock Absorbers (Damping Sub)		
Quantity:	no	N/A
Make/type:		N/A
OD body:	in	N/A
ID body:	in	N/A
OD fishing neck:	in	N/A
Connection type:		N/A
D.1.14. Drilling Jars		
Quantity:	no	N/A
Make:		N/A
Type (mechanical/hydraulic; up/down):		N/A
OD body:	in	N/A
Min. ID body:	in	N/A
OD fishing neck:	in	N/A
Stroke:	in	N/A
Connection type:		N/A
D.1.15. Inside BOP Valve		
Quantity:	no	2
Make:	in	Global Mft
OD:		5 in

Min. ID: Connection type: Working pressure:	in psi	3 in 5-1/2 GPDSS 10,000 psi
Quantity: Make: OD: Min. ID: Connection type: Working pressure:	no in in psi	2 Global Mft 2-1/4 in 3-1/2 IF 10,000 psi
D.1.16. Fast Shut-Off Coupling		
Make/Type Quantity Size tool joint to fit	no	N/A N/A N/A
D.1.17. Kelly Cocks		
Upper: Quantity: Make/type: Working pressure: Max. OD body: Min. ID body: Connection type:	no psi in in in N/A	N/A N/A N/A N/A N/A N/A
Lower: Quantity: Make/type: Working pressure: Max. OD body: Min. ID body: Connection type: Used as full open safety valve:	no psi in in N/A	2 Global 10,000 psi 7-1/4 in 3 in 5-1/2 GPDS 55 Yes
Quantity: Make/type: Working pressure: Max. OD body: Min. ID body: Connection type: Used as full open safety valve:	no psi in in N/A	2 Global 10,000 psi 5 in 2-1/4 in 3-1/2 IF Yes
D.1.18. Circulation Subs		
Quantity: Make/type: OD Body: Ball size: Dressing kits: Connection type:	no in in no	N/A N/A N/A N/A N/A
D.1.19. Cup Type Testers		
Quantity: Make: Size: test cup for casing weight: Connection type:	no in lb/ft	1 ea 7" , 9-5/8" , 13-3/8"
D.1.20. Plug Type Testers		
Quantity: Make:	no	N/A N/A

Size test plugs: Connection type:	in	N/A N/A
D.1.21. Drop-In Valves		
Quantity: For nom. OD drill pipe: Make/type: Max. OD of dart:	no in in	1 5 in Blowout tools 2.56 in
Quantity: For nom. OD drill pipe: Make/type: Max. OD of dart:	no in in	1 3-1/2 in Blowout tools 2.31 in
D.1.22. Bit Subs (Box-Box)		
Quantity: OD size: ID size: Top connection type: Bottom connection type: Bored for float valve: Float size:	no in in yes/no in	2 9-7/16 in 3-1/16 in 7-5/8 REG 7-5/8 REG N/A N/A
Quantity: OD size: ID size: Top connection type: Bottom connection type: Bored for float valve: Float size:	no in in yes/no in	2 9-7/16 in 2-15/16 in 7-5/8 REG 7-5/8 REG Yes 4-3/4 in
Quantity: OD size: ID size: Top connection type: Bottom connection type: Bored for float valve: Float size:	no in in yes/no in	4 8 in 2-15/16 in 6-5/8 REG 6-5/8 REG Yes 4-3/4 in
Quantity: OD size: ID size: Top connection type: Bottom connection type: Bored for float valve: Float size:	no in in yes/no in	2 8-5/8 in 3-1/2 in 7-5/8 REG 6-5/8 REG Yes 4-3/4 in
Quantity: OD size: ID size: Top connection type: Bottom connection type: Bored for float valve: Float size:	no in in yes/no in no	4 6-1/2 in 2-1/4 in 4-1/2 IF 4-1/2 REG Yes 3-1/2 in 2
Quantity: OD size: ID size: Top connection type: Bottom connection type: Bored for float valve: Float size:	in in yes/no in	4-5/8 in 2-1/8 in 3-1/2 IF 3-1/2 REG N/A N/A

Quantity:		no	2
OD size:		in	7 in
ID size:		in	3 in
Top connection type:			GPDS-55
Bottom connection type:			4-1/2 REG
Bored for float valve:	yes/no		N/A
Float size:		in	N/A
D.1.23. Crossover Subs			
Quantity:		no	2
OD size (max/min):		in/in	9-7/16 in
ID size:		in	3-1/8 in
Top connection size:			7-5/8
Type (pin/box):			Pin
Bottom connection size:			7-5/8
Type (pin/box):			Pin
Quantity:		no	1
OD size (max/min):		in/in	9-3/8 in x 6-3/8 in
ID size:		in	2-7/8 in
Top connection size:			4-1/2 IF
Type (pin/box):			Box
Bottom connection size:			7-5/8 REG
Type (pin/box):			Pin
Quantity:		no	1
OD size (max/min):		in/in	9-1/2 x 6-1/2 in
ID size:		in	2-15/16 in
Top connection size:			4-1/2 IF
Type (pin/box):			Box
Bottom connection size:			7-5/8 REG
Type (pin/box):			Pin
Quantity:		no	3
OD size (max/min):		in/in	6-1/2 in
ID size:		in	2-1/4 in
Top connection size:			4-1/2 IF
Type (pin/box):			Box bottom
Bottom connection size:			3-1/2 IF
Type (pin/box):			Pin
Quantity:		no	2
OD size (max/min):		in/in	7-1/2 in
ID size:		in	2-13/16 in
Top connection size:			6-5/8 REG
Type (pin/box):			Pin
Bottom connection size:			6-5/8 REG
Type (pin/box):			Pin
Quantity:		no	1
OD size (max/min):		in/in	9 x 6-1/2 in
ID size:		in	3 in
Top connection size:			4-1/2 IF
Type (pin/box):			Pin
Bottom connection size:			7-5/8 REG
Type (pin/box):			Pin
Quantity:		no	2
OD size (max/min):		in/in	8 in
ID size:		in	3-1/8 in
Top connection size:			6-5/8 REG

Type (pin/box):		Box
Bottom connection size:		4-1/2 IF
Type (pin/box):		Pin
Quantity:	no	1
OD size (max/min):	in/in	6-1/8 in
ID size:	in	3 in
Top connection size:		3-1/2 IF
Type (pin/box):		Box
Bottom connection size:		3-1/2 IF
Type (pin/box):		Box
Quantity:	no	1
OD size (max/min):	in/in	6-1/4 in
ID size:	in	3 in
Top connection size:		4-1/2 IF
Type (pin/box):		Pin
Bottom connection size:		4-1/2 IF
Type (pin/box):		Pin
Quantity:	no	1
OD size (max/min):	in/in	6-5/16 in
ID size:	in	2-7/8 in
Top connection size:		4-1/2 IF
Type (pin/box):		Box
Bottom connection size:		4-1/2 IF
Type (pin/box):		Pin
Quantity:	no	1
OD size (max/min):	in/in	6-5/16 in
ID size:	in	3-1/4 in
Top connection size:		4-1/2 IF
Type (pin/box):		Box
Bottom connection size:		4-1/2 IF
Type (pin/box):		Pin
Quantity:	no	3
OD size (max/min):	in/in	6-1/4 in x 4-3/4 in
ID size:	in	2-1/2 in
Top connection size:		4-1/2 IF
Type (pin/box):		Pin
Bottom connection size:		3-1/2 IF
Type (pin/box):		Box
Quantity:	no	1
OD size (max/min):	in/in	6-5/16 in x 4-3/4 in
ID size:	in	2-1/4 in
Top connection size:		4-1/2 IF
Type (pin/box):		Box
Bottom connection size:		4-1/2 REG
Type (pin/box):		Pin
Quantity:	no	1
OD size (max/min):	in/in	6-1/2 in
ID size:	in	3-1/8 in
Top connection size:		4-1/2 IF
Type (pin/box):		Box bottom
Bottom connection size:		4-1/2 IF
Type (pin/box):		Box
Quantity:	no	6
OD size (max/min):	in/in	7-5/8 in x 6-3/8 in
ID size:	in	2-7/8 in
Top connection size:		4-1/2 IF
Type (pin/box):		Box
Bottom connection size:		6-5/8

Type (pin/box):		Pin
Quantity:	no	7
OD size (max/min):	in/in	7 in
ID size:	in	2 in
Top connection size:		5-1/2 GPDS 55
Type (pin/box):		Box bottom
Bottom connection size:		4-1/2 IF
Type (pin/box):		Pin
Quantity:	no	2
OD size (max/min):	in/in	7 in x 5 in
ID size:	in	2-1/4 in
Top connection size:		GPDS-55
Type (pin/box):		Box
Bottom connection size:		NC-58
Type (pin/box):		Pin
Quantity:	no	4
OD size (max/min):	in/in	7 in
ID size:	in	2-13/16 in
Top connection size:		GPDS-55
Type (pin/box):		Box
Bottom connection size:		NC-50
Type (pin/box):		Pin
Quantity:	no	2
OD size (max/min):	in/in	8-1/4 in x 7 in
ID size:	in	2-13/16 in
Top connection size:		GPDS-55
Type (pin/box):		Box
Bottom connection size:		6-5/8 REG
Type (pin/box):		Pin
Quantity:	no	2
OD size (max/min):	in/in	9-1/2 in x 7 in
ID size:	in	3 in
Top connection size:		GPDS-55
Type (pin/box):		Box
Bottom connection size:		7-5/8 REG
Type (pin/box):		Pin
Quantity:	no	2
OD size (max/min):	in/in	7 in
ID size:	in	3 in
Top connection size:		GPDS-55
Type (pin/box):		Pin
Bottom connection size:		GPDS-55
Type (pin/box):		Pin
Quantity:	no	2
OD size (max/min):	in/in	7 in
ID size:	in	3-1/2 in
Top connection size:		GPDS-55
Type (pin/box):		Box
Bottom connection size:		GPDS-55
Type (pin/box):		Box
Quantity:	no	1
OD size (max/min):	in/in	7 in
ID size:	in	2-1/4 in
Top connection size:		GPDS-55
Type (pin/box):		Pin
Bottom connection size:		4-1/2 REG
Type (pin/box):		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 7-1/2 in side entry subs 2-13/19 in GPDS 55 Box GPDS-55 Pin
D.1.24. Drilling Bumper Subs		
Quantity: Make: OD: Stroke: Connection type:	no in in	N/A N/A N/A N/A N/A
D.1.25. Hole Openers		
Quantity: Make: OD: Connection type:	no in	N/A N/A N/A N/A
D.1.26. Under reamer		
Quantity: Make/type: OD min/OD max: Connection type:	no in/in	N/A N/A N/A N/A
D.2. HANDLING TOOLS		
D.2.1. Drill Pipe Elevators		
Size: Quantity: Make: Model: Rated Capacity	no st	5-1/2 in 2 Varco GG 350 st
Size: Quantity: Make: Model: Rated capacity:	no st	3-1/2" 2 Varco GG 300 st
Quantity: Make: Model: Rated capacity:	st	N/A N/A N/A N/A
D.2.3. Tubing Elevators		
Size (max/min): Quantity: Make: Model: Rated capacity: Size:	in no st	2-3/8 – 7 in 1 Blohm-Voss BVC slip-type 150 st 2-7/8 & 3-1/2 in

D.2.4. Drill Pipe Hand Slips		
Size:	in	5 in / 5-1/2 in body
Quantity:	no	3
Make/type:		Varco SDXL
Size range:	in/in	4-1/2 ; 5 ; 5-1/2 in
Size:	in	3-1/2"
Quantity:	no	3
Make/type:		Varco SDXL
Size range:	in/in	3-1/2"-4-1/2"
D.2.5. Semi-Automatic DP Slips		
Size range (largest/smallest):	in/in	N/A
Quantity:	no	N/A
Make/type:		N/A
D.2.6. Drill Collar Slips		
Size:	in	6-1/2 in to 9-1/2 in
Quantity:	no	2
Make/type:		Varco multi segment with circular buttons
Size:	in	6 in to 4-3/4 in
Quantity:	no	2
Make/type:		Varco multi segment with circular buttons
D.2.7. Drill Collar Safety Clamps		
Quantity:	no	2
Range:	in/in	5-1/2 in to 9-1/2 in
D.2.8. Tubing Slips		
Size:	no	3-1/2 in SDML
Quantity:	in/in	1
Make/type:		Varco SDML
Size range:		2-3/8 in to 3-1/2 in
Size:	no	5-1/2 in SDXL
Quantity:	in/in	2
Make/type:		Varco SDXL
Size range:		3-1/2 in to 5-1/2 in
D.2.9. Tubing Spider		
Slip Size (max/min):	in/in	N/A
Quantity:	no	N/A
Make:		N/A
Adapter Plate:		N/A
D.2.10. Drill Collar Lifting Subs		
Quantity:	no	6
For DC OD:	in	8 in
Connection Type:		6-5/8 REG
Quantity:	no	5
For DC OD:	in	6-1/2 in

Connection Type:		4-1/2 IF
D.2.11. DC Lifting Plugs		
Quantity:	no	N/A
For DC OD:	in	N/A
Connection Type:		N/A
D.2.12. Bit Breakers		
Quantity:	no	1
For bit size:	in	26 in
Quantity:	no	1
For bit size:	in	17-1/2 in
Quantity:	no	1
For bit size:	in	12-1/4 in
D.2.13. Elevator Links		
Quantity of sets:	no	1
Make/type:		Varco
Size:	in	4-1/2 in
Length:	ft	192 in
Rated capacity:	st	440 st
Quantity of sets:	no	1
Make/type:		Varco
Size:	in	3-1/2 in
Length:	ft	120 in
Rated capacity:	st	350 st
Quantity of sets:	no	1
Make/type:		Varco
Size:	in	3-1/2 in
Length:	ft	108 in
Rated capacity:	st	350 st
Quantity of sets:	no	
Make/type:		
Size:	in	
Length:	ft	
Rated capacity:	st	
D.2.14. Kelly Spinner		
Make/type:		N/A
D.2.15. Drillpipe Spinner		
Quantity:	no	1
Make/type:		Gray / Model 3570
Size (max/min):	in/in	2-7/8 to 7 in
D.2.16. Mud Saver Bucket		
Make:		Oteco
Size:	in	3-1/2 to 5-1/2 in
D.2.17. Hydraulic Make-Up/Breakout Machine (e.g. Ezy Torque)		

Make/type: Maximum line pull	st	Drilco Torque Range 40,000 to 150,000 ft lb
D.2.18. Rotary Rig Tongs		
Quantity:	no	2
Make/Type:		HT50
Range size (max OD/min OD):	in/in	13-3/8 in to 23 in
Torque rating:	ft-lbs	50,000 max
Quantity:	no	2
Make/Type:		HT 14
Range size (max OD/min OD):	in/in	4 in to 17 in
Torque rating:	ft-lbs	14,000 max
Quantity:	no	2
Make/Type:		HT 100
Range size (max OD/min OD):	in/in	4 in to 17 in
Torque rating:	ft-lbs	60,000 16 in to 17 in 75,000 12 in to 15 in 100,000 4 in to 15-3/4 in OD
D.2.19. Tubing Tongs (Manual)		
Quantity (sets):	no	1
Make/type:		AOT K30
Size range (max OD/min OD):	in/in	2.062 to 4.125 in
Torque rating:	ft-lbs	5,000 ft-lbs
D.2.20. Tubing Tongs Power		
Quantity:	no	N/A
Make/type:		N/A
Size range (max OD/min OD):	in/in	N/A
Max output torque:	ft-lbs	N/A
Torque indicator:	yes/no	N/A
Back-up arm:	yes/no	N/A
D.2.21. Iron Roughneck		
Make/Type:		Varco ST-80 (2 ea)
Size range (max OD/min OD):	in/in	4-1/4 in to 8-1/2 in
Max. makeup torque:	ft-lbs	60,000 ft lbs
Max. breakout torque:	ft-lbs	80,000 ft lbs
D.3. FISHING EQUIPMENT		
D.3.1. Overshot		
Quantity:	no	1
Make/Type:		Bowen Series 150 FS
Overshot OD:	in	11-1/4 in
To catch size:	in	5 to 8-7/8 in Basket Grapple
To catch size:	in	6-1/2 to 9-5/8 in Spiral Grapple
Overshot guide OD:	in	11-1/4 in
Extension sub length:	ft	32 in
Lipped guide (oversize, regular):		15 in – 21 in
Grapples (spiral, basket, both):		Both
Pack offs:	yes/no	Yes
Top subs connection type:		6-5/8 REG
Quantity:	no	1
Make/Type:		Bowen Series 150 FS
Overshot OD:	in	8-1/4 in
To catch size:	in	3-1/2 in to 5-7/8 in – Basket

To catch size:	in	6 to 6-5/8 in – Spiral
Overshot guide OD:	in	8-1/4 in
Extension sub length:	ft	
Lipped guide (oversize, regular):	yes/no	11 in
Grapples (spiral, basket, both):		Both
Pack offs:		Yes
Top subs connection type:		4-1/2 IF
Quantity:	no	1
Make/Type:		Bowen Series 150 FS
Overshot OD:	in	8-1/8 in
To catch size:	in	3-1/2 to 5 in – Basket
To catch size:	in	6 to 6-1/2 in – Spiral
Overshot guide OD:	in	8-1/8 in
Extension sub length:	ft	39 in
Lipped guide (oversize, regular):	yes/no	11 in
Grapples (spiral, basket, both):		Both
Pack offs:		Yes
Top subs connection type:		4-1/2 IF
Quantity:	no	1
Make/Type:		Bowen Series 150 FS
Overshot OD:	in	5-3/4 in
To catch size:	in	2-3/8 to 4-1/4 in – Basket
To catch size:	in	4-3/4 to 4-1/2 in – Spiral
Overshot guide OD:	in	5-3/4 in
Extension sub length:	ft	
Lipped guide (oversize, regular):	yes/no	Both
Grapples (spiral, basket, both):		Yes
Pack offs:		3-1/2 IF
Top subs connection type:		
Quantity:	no	1
Make/Type:		Bowen Series 150 FS
Overshot OD:	in	5-3/4 in
To catch size:	in	2-3/8, 2-7/8, 2-19/32, 3-1/16, 3-1/2, 3-5/8, 4-1/2, 4-3/4, 5 in
Overshot guide OD:	in	5-3/4 in
Extension sub length:	in	26 in
Lipped guide (oversize, regular):	ft	No
Grapples (spiral, basket, both):		Both
Pack offs:		Yes
Top subs connection type:	yes/no	3-1/2 IF
Quantity:	no	1
Make/Type:		Bowen Series 150 FS
Overshot OD:	in	5 in
To catch size:	in	5 in
Overshot guide OD:	in	5-7/8 in
Extension sub length:	in	26 in
Lipped guide (oversize, regular):	ft	None
Grapples (spiral, basket, both):		Spirals
Pack offs:		Yes
Top subs connection type:	yes/no	3-1/2 IF
D.3.2. Hydraulic Fishing Jar		
Quantity:	no	1
Make/type:		Bowen "Z"
OD body:	in	4-3/4 in
Min. ID:	in	2 in
Stroke:	in	
Connection type:	yes/no	3-1/2 IF
Repair kit:		N/A
Quantity:	no	1

Make/type: OD body: Min. ID: Stroke: Connection type: Repair kit:	in in in yes/no	Bowen "Z" 6-1/2 in 2-1/4 in 4-1/2 IF N/A
D.3.3. Jar Intensifier		
Quantity: Make/type: OD body: Min. ID: Connection type: Repair kit:	no in in yes/no	N/A N/A N/A N/A N/A
D.3.4. Surface Jar		
Quantity: Make/type: OD body: Stroke: Connection type: Repair kit:	no in in yes/no	N/A N/A N/A N/A
D.3.5. Fishing Bumper subs		
Quantity: Make/type: OD body: Min. ID: Stroke: Connection type:	no in in in	1 Bowen 7-3/4 in 3-1/2 in 20 in 6-5/8 REG
D.3.6. Safety Joints		
Quantity: Make/type: OD body: Min. ID: Connection type:	no in in in	1 Bowen 6-1/2 in 4-1/2 IF
D.3.7. Junk Baskets (Reverse Circulation)		
Quantity: Make/type: For hole size: OD body: Connection type: Inside magnet available: Mill shoes type (A, B, C):	no in in yes/no	1 Bowen 6-1/8 – 6-1/2 in 5-3/4 in 3-1/2 IF Yes
Quantity: Make/type: For hole size: OD body: Connection type: Inside magnet available: Mill shoes type (A, B, C):	no in in yes/no	1 Bowen 7-1/2 to 8-1/4 in 7 in 4-1/2 IF Yes
Quantity: Make/type: For hole size: OD body:	no in in	1 Bowen 8-3/8 in to 9-1/2 in 7-7/8 in

Connection type: Inside magnet available: Mill shoes type (A, B, C):	yes/no	4-1/2 IF Yes
Quantity: Make/type: For hole size: OD body: Connection type: Inside magnet available: Mill shoes type (A, B, C):	no in in yes/no	1 Bowen 11-3/4 in to 12-1/2 in 11 in 6-5/8 REG Yes
D.3.8. Junk Subs		
Quantity: Make/type: For hole size: OD body: Connection type:	no in in no in in	1 17-1/2 in 12-5/8 in x 8-5/8 in 7-5/8 REG
Quantity: Make/type: For hole size: OD body: Connection type:	no in in no in in	1 12-1/4 in 9-1/2 in x 8-3/4 in 6-5/8 REG
Quantity: Make/type: For hole size: OD body: Connection type:	no in in no in in	1 8-1/2 in 6-1/2 x 5-5/16 in 4-1/2 REG
D.3.9. Flat Bottom Junk Mill		
Quantity: Make/type: OD flat mill: Connection type:	no in no in no in	1 12-1/4 in 6-5/8 REG
Quantity: Make/type: OD flat mill: Connection type:	no in no in no in	1 8-1/4 in 4-1/2 REG
D.3.10. Magnet Fishing Tools		
Quantity: Make/type: OD body: Connection type:	no in no in no in	1 Bowen OD 7 in 4-1/2 REG Pin
Quantity: Make/type: OD body: Connection type:	no in no in no in	1 Bowen OD 10-1/2 in 6-5/8 REG Pin
D.3.11. Taper Taps		
Quantity: Make: Tap OD (max/min): OD body: Length overall:	no in/in in ft	1 Bowen 2-3/16 in – 3-11/16 in 4-3/4 in 2.5 ft

Connection type:		3-1/2 IF
Quantity:	no	1
Make:		Bowen
Tap OD (max/min):	in/in	3-1/4 in – 4-3/4 in
OD body:	in	6-3/8 in
Length overall:	ft	2' 10"
Connection type:		4-1/2 IF
D.3.12. Die Collars		
Quantity	no	N/A
Make		N/A
Minimum OD	in	N/A
Maximum OD	in	N/A
OD body	in	N/A
Length	ft	N/A
Connection		N/A
E. WELL CONTROL/SUBSEA EQUIPMENT		
E.1. DIVERTER		
Fixed:	yes/no	N/A
Make/type:		
Maximum bore:	in	
ID of insert packer:	in	
Working pressure:	psi	
Annular:	no	
Make/type:		T3 7012
Maximum bore:	in	29-1/2 in
Working pressure:	psi	500 psi
Bottom connection:		Flange R95
Size:	in	29-1/2 in
Working pressure:	psi	200 psi
Gasket type:		R-95
Rams:	no	
Make/type:		N/A
Ram packer type:		
Max bore size:	in	
Working pressure:	psi	
Bottom connection:		
Size:	in	
Working pressure:	psi	
Gasket type:		
Number of diverter outlets:	no	2
Outlet OD (nominal):	in	12
E.1.1. Diverter Flow Lines		
Quantity:	no	2
Nominal size of flow lines:	in	12" x 13 ft
Running from diverter to:		Port & starboard
Valve make/type:		Shaffer
Quantity:	no	2
Size:	in	12 in
Working pressure:	psi	2,000 psi
Valve operator (air hydraulic):		Hydraulic
Valve make/type:		Danflos, BRC 8000A-1
E.1.2. Diverter Control Panel		
Primary make/type:		Koomey Type 80 – Schaffer Auto

Location: Remote make/type:		Sequence Port cantilever lower deck Koomey model DIVC-3ASX Auto-sequence
Location: Remote make/type:		Rig floor Koomey model DIVC-3ASX Auto-sequence
Location:		Koomey room
E.2. LOW PRESSURE BLOWOUT PREVENTERS		
All appropriate components H2S rated	yes/no	Yes
E.2.1. Ram type preventers		
Quantity:	no	1
Make/model:		T3 / 6012
Type (single/double/triple):		Double
Size:	in	21-1/4
Working pressure:	psi	2000
Ram locks:	yes/no	Yes
Type (manual/hydraulic):		Yes
H2S service:	yes/no	Yes
Side outlets:	no	4 outlets – two on upper and two on lower ram
Size:	in	4-1/16, 2000 psi, R37
WP:	psi	2,000
Bottom connection:		Flange RX-73
Top connection:		Flange RX-73
Shear ram boosters:	yes/no	Yes
E.2.2. Available rams (Installed & Spare)		
Quantity/type/size:	no/type/in	2 set 5-1/2 in pipe rams
Quantity/type/size:	no/type/in	1 set 5 in pipe rams
Quantity/type/size:	no/type/in	2 set blind shear rams
Quantity/type/size:	no/type/in	1 set 13-3/8 casing rams
Quantity/type/size:	no/type/in	
Quantity/type/size:	no/type/in	
E.2.3. BOP Ram Configuration (normal)		
Middle Upper:		5-1/2 in – 2K
Middle Lower:		Blind shear rams – 2K
E.2.4. Annular Preventer		
Quantity:	no	1
Make/type:		T3/ 7012
Size:	in	21-1/4 in
Working pressure:	psi	2000 psi
Bottom connection:		Flange R73
Top connection:		Studded R73
E.2.5. Kill Line Valves		
Quantity:	no	1
Make/type:		T3 type "FC"
Size:	in	3-1/16 in
Working pressure:	psi	10,000 psi
Gasket type:		BX-154
Hydraulic/manual/non-return:		1 hydraulic
Quantity:	no	1

Make/type: Size: Working pressure: Gasket type: Hydraulic/manual/non-return:	in psi	T3 type "FC" 3-1/16 in 10,000 psi BX-154 Manual
E.2.6. Choke Line Valves		
Quantity: Make/type: Size: Working pressure: Gasket type: Hydraulic/manual:	no in psi	1 T3 type "FC" 3-1/16 in 10,000 psi BX-154 1 hydraulic
Quantity: Make/type: Size: Working pressure: Gasket type: Hydraulic/manual:	no in psi	1 T3 type "FC" 3-1/16 in 10,000 psi BX-154 Manual
E.3. HIGH PRESSURE BLOWOUT PREVENTERS		
All appropriate components H2S rated	yes/no	Yes
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 no in psi yes/no	1 T3 / 6012 Diamond Series Double 13-5/8 in 10,000 psi Yes Manual Yes 4-1/16 in 10,000 psi Flange BX159 Flange BX 159 Yes
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 T3 / 6012 Diamond Series Single 13-5/8 in 10,000 psi Yes Manual Yes 2 4-1/16 in 10,000 psi Flange BX159 Flange BX 159 No
E.3.2. Available Rams		
Quantity/type/size: Quantity/type/size: Quantity/type/size: Quantity/type/size: Quantity/type/size:	no/type/in no/type/in no/type/in no/type/in no/type/in	1 set IRS shear rams 2 sets 5-1/2 in pipe rams 1 set 5 in pipe rams 1 set 3-1/2 in pipe rams 1 set 2-3/8 in pipe rams

Quantity/type/size: Quantity/type/size: Quantity/type/size: Quantity/type/size: Quantity/type/size:		no/type/in no/type/in no/type/in no/type/in no/type/in	1 set 2-7/8 in x 5 in VBR 1 set 3-1/2 in x 5-1/2 in VBR 1 set 4-1/2 in x 7 in VBR 1 set 7 in casing rams 1 set 9-5/8 in casing rams
E.3.3. BOP Ram Configuration (Normal)			
Upper: Upper middle: Middle:			5-1/2" Blind shear 3-1/2 x 7 in VBR
E.3.4. Annular Preventer			
Quantity: Make/type: Size: Working pressure: Bottom connection: Top connection:		no in psi	1 T3 / 7022 13-5/8 in 5,000 psi Flange BX159 Studded BX160
E.3.5. Kill Line Valves			
Quantity: Make/type: Size: Working pressure: Gasket type: Hydraulic/manual/non-return:		no in psi	1 T3 "FC" 3-1/16 in 10,000 psi BX-154 Hydraulic
Quantity: Make/type: Size: Working pressure: Gasket type: Hydraulic/manual/non-return:		no in psi	1 T3 "FC" 3-1/16 in 10,000 psi BX-154 Manual
E.3.6. Choke Line Valves			
Quantity: Make/type: Size: Working pressure: Gasket type: Hydraulic/manual:		no in psi	1 T3 "FC" 3-1/16 in 10,000 psi BX-154 Hydraulic
Quantity: Make/type: Size: Working pressure: Gasket type: Hydraulic/manual:		no in psi	1 T3 "FC" 3-1/16 in 10,000 psi BX-154 Manual
E.4. OTHER BLOWOUT PREVENTERS			
All appropriate components H₂S rated		yes/no	yes
E.4.1. Ram Type Preventers			
Quantity: Make/Model: Type (single/double/triple): Size: Working pressure: Ram locks:		no in psi yes/no	N/A N/A N/A N/A N/A N/A

Type (manual/hydraulic): H2S service: Side outlets: Size: WP: Bottom connection: Top connection: Shear ram boosters:	yes/no no in psi yes/no	N/A N/A N/A N/A N/A N/A N/A
E.4.2. Available Rams (Installed & Spare)		
Quantity/type/size:	no/type/in	N/A
E.4.3. BOP Ram Configuration (Normal)		
Upper: Upper middle: Middle: Middle lower: Lower:		N/A N/A N/A N/A N/A
E.4.4. Annular Preventer		
Quantity: Make/type: Size: Working pressure: Bottom connection: Top connection:	no in psi	N/A N/A N/A N/A N/A
E.4.5. Kill Line Valves		
Quantity: Make/type: Size: Working pressure: Gasket type: Hydraulic/manual/non-return:	no in psi	N/A N/A N/A N/A N/A
E.4.6. Choke Line Valves		
Quantity: Make/type: Size: Working pressure: Gasket type: Hydraulic/manual:	no in psi	N/A N/A N/A N/A N/A
E.4.7. Torque Wrench		
Quantity: Make/type: Size:	no in	1 Clover Tool, RBU 20 & RBU 2 Power Head 3-1/2 in AF ; 2-15/16 in AF ; 2-9/16 in AF ; 1-5/8 in AF
E.5. BOP CONTROL SYSTEM		
E.5.1. Accumulator Unit		
Make/Model: Location: Fluid reservoir capacity: Oil/water mix. rate:	U.S. gal U.S.	Koomey Type 80 MB 180 11st3 Port Cantilever Lower Deck U.S. gal 280 N/A

Glycol reservoir capacity: Total accumulator capacity w/o precharge: System working pressure: Control manifold model: Regulator type: Total useful accumulator volume equals all preventer during opening and closing volumes: Plus percent additional volume:	gals/min U.S. gal U.S. gal psi yes/no %	N/A U.S. gal 220 (11 ea 20 gallon) 3,000 psi Koomey Double Manifold Manual operated with HP bypass Yes 120%	
E.5.2. Accumulator Hydraulic Pumps			
Electric Driven			
Quantity: Make/model: Each driven by motor of power: Flowrate of each pump:	no hp U.S. gals/min psi yes/no	2 Koomey Triplex T315 20 HP 14.2 US gals/min	
At operating pressure: Operable off emergency generator:		3000 PSI Yes	
Air Driven			
Quantity: Make/model: Flowrate of each pump:	no U.S. gals/min psi	3 Koomey Type 80 60:1 Ratio 4.3 US gals/min	
At operating pressure:		3000 PSI	
E.5.3. Primary Control Panel			
Control panel make/model: Location: Panel controls for the following functions:		Koomey type 80 At unit	
All annular BOPs: All ram BOPs: Lock for ram BOPs: Diverter system: Kill and choke line valves: Low accumulator pressure warning: Low reservoir level warning: Low rig air pressure warning: System pressure regulator: Pressure regulator for annular: Flowmeter: Quantity of pressure gauges: Other control functions:	yes/no yes/no yes/no yes/no yes/no yes/no yes/no yes/no yes/no yes/no yes/no no yes/no	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes 2 Yes – Diverter	
E.5.4. Remote Control Panels			
Make/model: Location: Ability to operate main closing unit: Valves directly: System routing (direct or through panel): Remote control of system pressure regulator: Remote control of annular pressure regulator:		Koomey Type 80 Drill floor Toolpusher's Office yes/no yes/no yes/no	
E.6. CHOKE MANIFOLD			
E.6.1. Choke Manifold			
Nominal size: Minimum ID: Maximum WP:	in in psi	3-1/16 in 3-1/16 in 10,000 psi	

Quantity of fixed chokes: Make/model: Size (ID):	in	N/A
Quantity of adjustable (manual) chokes: Make/model: Size (ID):	no psi	2 T3/H2S 3-1/16 in
Make/model: Size (ID):	in	T3/H2S 3-1/16 in
Quantity of power (hydraulic) chokes: Make/model: Size (ID):	no psi	2 T3 Super Choke/H2S 3-1/16 in
Make/model: Size (ID):	in	T3 Super Choke/H2S 3-1/16 in
Power choke remote control panel dual: Make/model: Location: Glycol injection:	yes/no	Yes T3 Dual Super Choke Console Drill floor – Drillers House No
E.7. FLEXIBLE CHOKE & KILL LINES (BOP to MANIFOLD)		
Quantity: Make/Type: ID: Working pressure: H2S service:	no in psi yes/no	1 Choke Coflexip 3 in 15,000 Test psi Yes
Quantity: Make/Type: ID: Working pressure: H2S service:	no in psi yes/no	1 Kill Coflexip [see N.2.] 3 in 15,000 Test psi Yes
E.8. FLEXIBLE BOP CONTROL HOSES		
Quantity: Make/type: ID: Working pressure: Fire resistant:	no in psi yes/no	14 4 wire with heat resistant armor coat 1 in 5,000 psi Yes
E.9. BOP TESTING EQUIPMENT		
E.9.1. Hydraulic BOP Test Pump		
Make/model: Type: Pressure rating: Chart recorder;	psi yes/no	Cad-20k-S-A 50:1 15,000 psi Yes
E.9.2. BOP Test Stump		
Size:	in	13-5/8 & 21-1/4 in
E.10. BOP HANDLING		
E.10.1. BOP Hoist System		
Make/type: Quantity of hoists: Number of lift points on BOP:	no no	Ingersoll-Rand Hercu-Link BOP Chain Hoist 4 (2 per BOP chain) 2

System safe working load (max BOP wt):		st	25 tons
E.10.2. Work Platform			
Diverter work platform (adjustable/fixed/none):			Adjustable
Capacity:		pax	8 persons
Platform size:		ft x ft	8 ft x 8 ft
Location:			Hanging under rotary table
BOP work platform (adjustable/fixed/none):			Adjustable
BOP size:		in	21-1/4 in and 13-5/8 in
Capacity:		pax	4 persons
Moon deck platform (adjustable/fixed/none):			Adjustable
Capacity:		pax	8 persons
Platform size:		ft x ft	12 ft x 11 ft
Location:			Moon pool
E.10.3. Conductor Pipe Tensioning System			
Make/type:			Perth Hydraulic System
Tension capacity:		st	50 st
Number of lift points:		no	4 cylinder hydraulic
Stroke:		in	24 in
E.11. DOUBLE STUDDED ADAPTOR			
Make/type:			DSAF
Quantity:		no	1
Top connection:			13 5/8" 10,000 psi BX-159
Bottom connection:		in	11" 3000, RX-53
Length:			
Make/type:			DSAF
Quantity:		no	2
Top connection:			13 5/8" 10,000 psi BX-159
Bottom connection:		in	13 5/8" 5,000 psi BX-160
Length:			
E.12. DRILLING SPOOL			
Make/type:			Diverter Spool
Quantity:		no	1
Top connection:			Flanged, 29-1/2" 500 psi
Bottom connection:		in	Flanged, 29-1/2" 500 psi
Side outlets:			
Size:		in	2 x 12"
Working pressure:		psi	500 psi
Type:			Flanged
Blind flanges:		yes/no	yes
Length:		in	41.29
Make/type:			21-1/4" 2K Drilling Spool
Quantity:		no	1
Top connection:			Flanged, 21-1/4" 2,000 psi, RX-73
Bottom connection:		in	Flanged, 21-1/4" 2,000 psi, RX-73
Side outlets:			
Size:		in	4-1/16
Working pressure:		psi	5,000 psi
Type:			Flanged
Blind flanges:		yes/no	yes
Length:		in	
E.13. DRILLING SPOOL ADAPTOR			

Make/type: Quantity: Top connection: Bottom connection: Length: Ring gasket:		no in	
E.14. RISER / SPACER SPOOL			
Make/type: Quantity: Top connection: Bottom connection: Length:		no in	1 Flanged, 13-5/8" 10,000 psi, BX-159 Flanged, 13-5/8" 10,000 psi, BX-159 264
Make/type: Quantity: Top connection: Bottom connection: Length:		no in	1 Flanged, 13-5/8" 10,000 psi, BX-159 Flanged, 13-5/8" 10,000 psi, BX-159 72
F. MUD SYSTEM/BULK SYSTEM			
F.1. HIGH PRESSURE MUD SYSTEM			
System working pressure: System test pressure:		psi psi	5,000 psi 5,000 psi
F.1.1. Mud Pumps			
Quantity: Make: Model: Type (triplex/duplex): Mud pump drive motors/pump: Motor type: Continuous power rating per motor: Fluid end type: Maximum working pressure: Test pressure: Pump stroke counter type: Supercharging pump type: Driven by motor or power: Discharge/suction line ID: Mud pump pulsation dampener type: Reset Relief Valve: Working flowrate per pump at 90% of max spm:		no no hp psi psi hp in/in	2 National 12P-160 Triplex 2 G.E. 752 800 HP total of 1,600 each pump Southwest conversions 5,500 psi 5,000 psi Totco Mission Magnum 6 by 8 1000 HP Discharge 5 in / Suction 10 in Hydril K-20 5000 Yes Retso Type-C 3 in
Liner size: Pump speed (90% of max.): Pump pressure: Working flowrate:		in spm psi U.S. gal/min	6-1/2 in 6-1/2 liner = 108 spm 6-1/2 liner = 3,980 psi 6-1/2 liner = 540 US gal/min
Liner size: Pump speed (90% of max.): Pump pressure: Working flowrate:		in spm psi	7 in 7 in liner = 115 spm 7 in liner = 3,430 psi 7 in liner = 690 US gal/min
F.1.2. Transfer Pumps/Mixing Pumps			
Mixing pumps Quantity: Make/model: Output capacity: Driven by motor:		no U.S. gpm hp	2 Mission Magnum 8 x 6 x 14 1,600 US gpm Electric

Power output:		100 HP
Transfer Pumps	no	N/A
Quantity:		N/A
Make/model:		N/A
Type/size:		N/A
Output capacity:	U.S. gpm	N/A
Drive motor type:		N/A
Power output:	hp	N/A
F.1.3. Booster Pump		
Quantity:	no	2
Make/type:		Mission Magnum 8 x 6 x 14
Capacity (each):	U.S. gpm	1,600 US gals/min
Driven motor type:		Electric type
Power output:	hp	100 HP
F.1.4. Standpipe Manifold		
Quantity of standpipes:	no	2
Standpipes ID:	in	5 in
M-type standpipe manifold:	yes/no	Yes
Kill line outlet:	yes/no	Yes
Fill-up/bleed-off line outlet:	yes/no	Yes
F.1.5. Rotary Hoses		
Quantity:	no	2
Make/type:		Copper State
ID x length:	in x ft	3-1/2 in x 88 ft
Working pressure:	psi	5,000 psi
Snubbing lines:	yes/no	Yes
F.1.6. Cementing Hose		
Quantity:	no	1
Type (armor sheath/flexible steel pipe):		Rubber coated / SAE100R13
Length:	ft	50 ft
ID:	in	2 in
Working pressure:	psi	5,000 psi WP w/1502 Integral Fittings
F.1.7. High Pressure Flexible Steel Pipe		
Make/type:		Anson
Integral connections/fittings (non-threaded):		Yes
ID:		2 in
Working pressure:		10,000 psi with 15,000 test H2S trim
Section length:		10 ft
Quantity:		6
Sweep swivels, make/type:		Anson 10K WP with 15,000 test H2S Trim
Nom. Size ID:		2 in
Suitable for H2S service:		Yes
F.2. LOW PRESSURE MUD SYSTEM		
F.2.1. Mud Processing Tank		
Sand trap tank, usable volume:	bbl	43 bbls
Degasser tank, usable volume:	bbl	247 bbls
Agitated:	yes/no	Yes
Desander tank, usable volume:	bbl	N/A
Agitated:	yes/no	N/A
Desilter tank, usable volume:	bbl	N/A

Agitated:	yes/no	N/A
Mud cleaner tank, usable volume:	bbl	N/A
Agitated:	yes/no	N/A
Centrifuge tank, usable volume:	bbl	N/A
Agitated:	yes/no	N/A
Other tank, usable volume:	bbl	N/A
Agitated:	yes/no	N/A
Total usable capacity:	bbl	290 bbls
F.2.2. Mud Tanks		
Quantity:	no	5
Total capacity (actual):	bbl	1,836.70 bbls
Total capacity (usable):	bbl	1,713 bbls
Actual capacity No. 1:	bbl	459.20 bbls
Usable capacity No. 1:	bbl	428 bbls
Type (active/reserve):		Active/reserve
Height (actual):	ft	10 ft
Height (usable):	ft	9 ft 4 in
Mixer:	yes/no	Yes
Mud guns:	yes/no	No
Actual capacity No. 2:	bbl	397.20 bbls
Usable capacity No. 2:	bbl	371 bbls
Type (active/reserve):		Active/reserve
Height (actual):	ft	10 ft
Height (usable):	ft	9 ft 4 in
Mixer:	yes/no	Yes
Mud guns:	yes/no	No
Actual capacity No. 3:	bbl	396.30 bbls
Usable capacity No. 3:	bbl	370 bbls
Type (active/reserve):		Active/reserve
Height (actual):	ft	10 ft
Height (usable):	ft	9 ft 4 in
Mixer:	yes/no	Yes
Mud guns:	yes/no	No
Actual capacity No. 4:	bbl	459.10 bbls
Usable capacity No. 4:	bbl	428 bbls
Type (active/reserve):		Acctive/reserve
Height (actual):	ft	10 ft
Height (usable):	ft	9 ft 4 in
Mixer:	yes/no	Yes
Mud guns:	yes/no	No
F.2.3. Pill/Slug Tank		
Capacity (actual):	bbl	124.90 bbls
Capacity (usable):	bbl	116 bbls
Mud agitator:	yes/no	Yes
Mud guns:	yes/no	No
F.2.4. Trip/Stripping Tanks		
Capacity (usable):	bbl	40 bbls
Capacity/foot:	bbl/ft	4.5 bbls / 1 ft
Level indicator:	yes/no	Yes
Electric pump make:		Mission
Model/type:		2 ea Mission 3 x 4
Rated capacity:	hp	
Facility for casing fill-up:	yes/no	Yes
Alarm and strip chart recorder:	yes/no	No

F.2.5. Chemical Mixing Tank	bbl	2.5 bbls Manual, caustic soda
Capacity (Usable):		
Chemical mixer type:		
F.2.6. Shale Shakers		
Primary:		
Quantity:	no	4 (1 is dedicated for mud cleaner)
Make/Model:		Derrick / Dual Pool 626
Motion Type:		Balance Elliptical Motions
Nominal flow rate (total):	bbl/min	1,000 gpm each
Cascading:		Included in primary shale shaker
Quantity:	no	
Make/model:		
Type:		
Nominal flow rate (total):	bbl/min	
F.2.7. Desander		
Quantity:	no	1
Make/model:		Derrick / Cone
Type:		Hydrocyclone
Nominal flow rate:	bbl/min	1,500 gpm
Number of cones:	no	3
Size:	in	10 in
Feed pump make/model:		TRW Mission D5900-70 + Westinghouse
Type/size:		Centrifugal + AC Motor / 6 x 8R + TAEP
Capacity:		1,500 gpm
Drive motor hp:	gpm	100 hp
Is pump dedicated to desander:	hp	yes
	yes/no	
F.2.8. Desilter		
Quantity:	no	1
Make/model:		Derrick
Type:		Hydrocyclone - Circle
Nominal flow rate:	bbl/min	1600 GPM
Number of cones:	no	20
Size:	in	4 in
Feed pump make/model:		TRW Mission D5900-70 + Westinghouse
Type/size:		Centrifugal + AC Motor / 6 x 8R + TAEP
Capacity:		1,500 gpm
Drive motor hp:	gpm	100 hp
Is pump dedicated to desilter:	hp	Yes
	yes/no	
F.2.9. Mud Cleaner		
Quantity:	no	1 Unit
Make/model:		Derrick / Dual Pool 626
Type:		Elliptical Motions
Nominal flow rate:	bbl/min	1,000 gpm
Number of cones:	no	See section F.2.7 and section F.2.8
Size:	in	
Feed pump make/model:		
Type/size:		
Capacity:		
Drive motor hp:	gpm	
Is pump dedicated to mud cleaner:	hp	
	yes/no	
F.2.10. Mud/Gas Separator (Poor Boy)		
Make/type:		WP 30 psi / Max WP 150 psi
Dimensions (height x OD):		12 ft x 48 in

Gas discharge line ID: Gas discharge location, primary: Can discharge be tied into burner system: Vacuum breaker: Mud seal height: Pressure gauge: Calculated gas throughput:		8 in Above derrick crown No Yes 10 ft Yes
F.2.11. Degasser		
Make/type: Nominal flow rate: Feed pump make/model: Type/size: Capacity: Drive motor hp: Is pump dedicated to degasser: Vacuum pump make type:	bbl/min gpm hp yes/no	Swaco Vacuum Horizontal 1000 GPM 21 bbls/min Mission Magnum 6 x 8 1,600 GPM 100 HP Yes Ingersoll Rand Model D-255
F.2.12. Mud Agitators		
Quantity: Make/model: Driven by motor of power: Located in tanks:	no hp	4 Motovario/PB 123 20 HP Mud Pits 1 To 4
Quantity: Make/model: Driven by motor of power: Located in tanks:	no hp	1 Motovario/PB103SC 5 HP Slug Pit
F.2.13. Mud Centrifuge		
Quantity: Make/model: Feed pump make/model: Type/size: Capacity: Drive motor hp: Is feed pump dedicated to centrifuge(s)	no bbl/min hp yes/no	N/A N/A N/A N/A N/A N/A
F.2.14. Mud Laboratory and Facilities		
Separate room: Equipped with: Mud balance: Marsh funnel: Filtration Kit: Sand content kit: Air conditioning: Positive pressure:	yes/no yes/no yes/no yes/no yes/no yes/no yes/no	Yes Yes Yes Yes Yes yes Yes
F.3. BULK SYSTEM		
F.3.1. Barite/Bentonite Silos		
Quantity: Capacity of each silo: Locations: Type weight loadcell: Manufacturer: Pressure rating: Relief valve(s) installed:	no ft3 psi yes/no	3 1,600 ft3 Stbd Bow Main Deck Compression Load Cell Martin Decker 60 psi Yes

F.3.2. Cement Silos		
Quantity:	no	3
Capacity of each silo:	ft3	1,600 ft3
Locations:		Port Bow Main Deck
Type weight loadcell:		Compression Load Cell
Manufacturer:		Martin Decker
Pressure rating:	psi	60 psi
Relief valve(s) installed:	yes/no	Yes
Separate mud/cement loading facilities:	yes/no	Yes
Cement discharge independent from barite/bentonite:	yes/no	Yes
F.3.3. Surge Tank for Barite/Bentonite		
Quantity:	no	1
Capacity of each tank:	ft3	67 ft3
Type weight loadcell:		N/A
Manufacturer:		N/A
Pressure rating:	psi	N/A
Relief valve(s) installed:	yes/no	N/A
F.3.4. Mud Hopper		
Quantity:	no	1
Make/model:		Flow Trend 1000 HE
Feed pump make/model:		Mission Magnum
Type/size:	bbl/min	6 x 8
Capacity:	hp	13 bbls/min
Drive motor hp:	yes/no	100 hp
Is feed pump dedicated to mud hopper(s):		Yes
Quantity:	no	1
Make/model:		Demco
Feed pump make/model:		Mission Magnum
Type/size:	bbl/min	6 x 8
Capacity:	hp	28 bbls/min
Drive motor hp:	yes/no	100 hp
Is feed pump dedicated to mud hopper(s):		Yes
F.3.5. Surge Tank for Cement		
Quantity:	no	Operator supplied
Capacity of each tank:	ft3	
Type weight loadcell:		
Manufacturer:		
Pressure rating:	psi	
Relief valve(s) installed:	yes/no	
F.3.6. Bulk Transfer System (See also C.1.7 - Compressed Air Systems)		
Independent air system for the silos and surge tanks consisting of a high-volume low-pressure compressor and air dryer:	yes/no	Yes
Air reduced from main air supply through pressure regulators:	yes/no	Yes – Back up only
Separate volume tank and dryer:	yes/no	Yes
G. CASING/CEMENTING EQUIPMENT		
G.1. CASING EQUIPMENT		
G.1.1. Drive Hammer		

Make/type: Maximum casing/conductor OD:	in	N/A N/A
G.1.2. API Casing Drifts		
For casing OD, weight, quantity:	in/lbs/ft/no	N/A
G.1.3. Clamp-On Casing Thread Protectors		
For casing OD, quantity:	in/no	N/A
G.1.4. Side Door Casing Elevator		
Quantity: For OD casing: Make/type: Capacity:	no in st	1 20 in B-J SLX 150 st
Quantity: For OD casing: Make/type: Capacity:	no in st	1 13-3/8 in B-J SLX 150 st
Quantity: For OD casing: Make/type: Capacity:	no in st	2 9-5/8 in B-J SLX 150 st
G.1.5. Slip Type Elevator/Spiders		
Quantity: For OD casing: Make/type:	no in	N/A N/A N/A
G.1.6. Slip Type Elevator/Spiders		
Quantity: Make/type: Pneumatic/manual: Capacity: Slips for OD casing sizes:	no st in	N/A N/A N/A N/A N/A
G.1.7. Casing Slips		
Quantity:	no	1
Make/type: For OD casing:	in	Varco CMS-XL 30 in
Quantity:	no	1
Make/type: For OD casing:	in	Varco CMS-XL 20 in
Quantity:	no	1
Make/type: For OD casing:	in	Varco CMS-XL 13-3/8 in
Quantity:	no	1
Make/type: For OD casing:	in	Varco CMS-XL 7 in

G.1.8. Casing Bowls		
Quantity:	no	1
Make/type:	in	Varco Hinged
For OD casing (max/min):		30 in – 200 tons
Quantity:	no	1
Make/type:	in	Varco Hinged
For OD casing (max/min):		20 in – 200 tons
Quantity:	no	3
Make/type:	in	Varco MPCH #1, #2 and #3 Split bowls
For OD casing (max/min):		13-3/8 in – 3-1/2 in
G.1.9. Manual Casing Tongs		
Quantity (sets):	no	1
Make/type:	in/in	Varco HT 50
W/jaws for OD casing (max/min):		20 in / 13-3/8 in
Quantity (sets):	no	1
Make/type:	in/in	Varco HT 14
W/jaws for OD casing (max/min):		2-3/8 in / 7 in
Quantity (sets):	no	1
Make/type:	in/in	Varco HT-100
W/jaws for OD casing (max/min):		13-3/8 in / 5 in
G.1.10. Casing Power Tongs		
Quantity:	no	N/A
Make/type:	in/in	N/A
W/jaws for OD casing (max/min):	ft-lbs	N/A
Max output torque:	yes/no	N/A
Torque indicator:	yes/no	N/A
Back-up arm:		N/A
G.1.11. Power Unit For Casing & Tubing Tongs		
Quantity:	no	N/A
Make/type:	gpm	N/A
Capacity (ea):	psi	N/A
Output pressure:	yes/no	N/A
Dedicated unit:		N/A
G.1.12. Casing Circulating Head (Swedge)		
For OD casing:	in	N/A
Connection type:	top/bottom	N/A
G.1.13. Casing spears (internal)		
Quantity:	no	N/A
Make/type:	in	N/A
For OD casing:	lbs/ft	N/A
For casing weight:	yes/no	N/A
Pack-off:		N/A
G.1.14. Casing Cutters (Internal)		
Quantity:	no	N/A
Make/type:	in/in	N/A
For OD casing (max/min):		N/A

G.1.15. Crossover to Handle Casing with Drill Pipe		
Quantity:	no	N/A
For OD casing:	in	N/A
Casing connection type:		N/A
Drill pipe connection type:		N/A
Rated capacity:	st	N/A
G.1.16 Casing Scrapers		
Quantity:	no	N/A
Make:		N/A
For OD casing:	in	N/A
For casing weight:	lbs/ft	N/A
OD body:	in	N/A
Connection type:		N/A
Blade type (roller/fixed):		
G.2. CEMENTING EQUIPMENT		
G.2.1. Cement Unit		
Owner:	yes/no	Third party equipment
Free placement basis:		
Make/type:		
No. of triplex pumps:	no	
Maximum working pressure:	psi	
Maximum flowrate (total):	bbl/min	
Unit powered by (electric/diesel):		
Recirculating mixing system:	yes/no	
Capacity:	bbl	
Motor power:	hp	
Liquid additive system:	yes/no	
Premix/batch tank:	U.S. gals/min	
Quantity:	no	
Capacity (total):	bbl	
Pressure recorder:	yes/no	
Densiometer recording device:	yes/no	
G.2.2. Cementing Manifold		
Discharge manifold working pressure:	psi	10,000 psi
Cement pump discharge lines min. ID:	in	2 in
Cement pump discharge lines working pressure:	psi	10,000 psi
Manifold safety pressure relief valve:	yes/no	Yes
G.2.3. Cementing Standpipe		
Quantity:	no	1
Working pressure:	psi	5,000 psi
ID:	in	3 in
Connection to choke manifold:	yes/no	No – Separate Line provided
Connection to standpipe manifold:	yes/no	Yes
G.2.4. Cementing Kelly		
Quantity:	no	N/A
Nominal size OD:	in	N/A
Total length:	ft	N/A
Working length:	ft	N/A
Connection type:		N/A
Cement head:	yes/no	N/A
G.2.5. Cementing Tubing		

<p>Size: Length X-overs to drillpipe specified in section D.1.3</p>		<p>N/A N/A</p>
<p>H. INSTRUMENTATION/COMMUNICATION</p>		
<p>H.1. DRILLING INSTRUMENTATION AT DRILLER'S POSITION</p>		
<p>H.1.1. Weight Indicator</p>		
<p>Make/type: Sensor type:</p>		<p>Martin Decker – Totco Type 75 Type EB with E80 load sensator</p>
<p>H.1.2. Standpipe Pressure Gauges</p>		
<p>Quantity: Make/type Maximum pressure reading:</p>	<p>no psi</p>	<p>2 Totco Type 11 6,000 psi</p>
<p>H.1.3. Choke Manifold Pressure Gauges</p>		
<p>Quantity: Make/type Maximum pressure reading:</p>	<p>no psi</p>	<p>2 Wadeco Model # 10 10,000 psi</p>
<p>H.1.4. Rotary Instrumentation</p>		
<p>H.1.4.1. Tachometer</p>		
<p>Make/type: Range Capacity:</p>	<p>rpm</p>	<p>Totco 300 rpm</p>
<p>H.1.4.2 Torque Indicator</p>		
<p>Make/type: Maximum torque:</p>	<p>ft/lbs</p>	<p>Totco 35,500</p>
<p>H.1.5. Top Drive Instrumentation</p>		
<p>H.1.5.1. Tachometer</p>		
<p>Make/type: Maximum RPM:</p>	<p>rpm</p>	<p>NOV 350 rpm</p>
<p>H.1.5.2. Torque Indicator</p>		
<p>Make/type: Maximum torque:</p>	<p>ft/lbs</p>	<p>EN 1 PAB 35,000</p>
<p>H.1.6. Pump Stroke Counters</p>		
<p>Quantity: Make/type: Stroke indicator and cumulative stroke counter for each pump:</p>	<p>yes/no yes/no</p>	<p>2 Totco Yes</p>
<p>H.1.7. Tong Torque Indicator</p>		
<p>Make/type: Maximum torque:</p>	<p>ft/lbs</p>	<p>Totco 55,000 ft-lbs</p>

H.1.8. Pit Volume Totalizer			
Make/model:			Totco Drill Watch System
Float in active mud tanks:	yes/no	Yes	
Quantity per tank:	no	1	
Floats in reserve mud tanks:	yes/no	N/A	
Quantity per tank:	no	1	
Floats in mud processing tanks:	yes/no	No	
Quantity per tank:	no	1	
Loss/Gain indicator:	yes/no	Yes	
Audio Alarm:	yes/no	Yes	
Visual Alarm:	yes/no	Yes	
H.1.9. Mud Flow indicator			
Make/model:			Totco Drill Watch System
High/low alarm:	yes/no	Yes	
Audio Alarm:	yes/no	Yes	
Visual Alarm:	yes/no	Yes	
Sensor location:	yes/no	Yes	
H.1.10. Trip Tank Indicator			
Make/model:			Totco Drill Watch System
Chart recorder:	yes/no	Yes	
Alarm:	yes/no	Yes	
H.1.11. Automatic Driller (See B.2.1)			
Make/Type:			N/A
H.1.12. Remote Choke Control Unit			
Make Type			N/A
H.1.13. Crown Clearance Indicator			
Make/type:			NOV 5' & 10'
H.2. DRILLING PARAMETER RECORDER			
Make/model:			Totco Drill Watch System
H.3. INSTRUMENTATION AT CHOKE MANIFOLD			
H.3.1. Standpipe Pressure Gauge			
(Drillpipe Pressure Gauge)			
Quantity:	no	1	
Make/type:		M/D	
Pressure range (maximum):	psi	10,000 psi	
Visible from choke operating position:	yes/no	Yes	
H.3.2. Choke Manifold Pressure Gauge			
(Casing Pressure Gauge)			
Quantity:	no	2	
Make/type:		M/D	
Pressure range:	psi	0 – 10,000 psi	
H.4. INSTRUMENTATION AT STANDPIPE			

H.4.1. Standpipe Pressure Gauge			
Quantity:	no	2	
Make/type:	psi	Totco Type 4	
Pressure range:	yes/no	0 – 6,000 psi	
Visible from driller's position:	yes/no	Yes	
Visible from choke operating system:		Yes	
H.5. DEVIATION EQUIPMENT			
H.5.1. Deviation Recorder			
Quantity:	no	1	
Make/type:	deg/deg	Totco 15527	
Deviation range:		0 degrees / 8 degrees	
Quantity:	no	1	
Make/type:	deg/deg	Totco 10699	
Deviation range:		0 degrees / 16 degrees	
H.5.2. Sickline Unit (see B.2.4)			
H.6. RIG COMMUNICATION SYSTEMS			
H.6.1. Rig Telephone System			
No. of stations:	no	35	
Make/type:	yes/no	PABX Panasonic KX-TDA-200	
Explosion proof:		Some	
H.6.2. Public Address System			
Can be combined with H.6.1 above:	yes/no	No	
No. of stations:	no	37	
Make/type:	yes/no	Gaitronics 700 Series	
Explosion proof:		Yes	
H.6.3. Drill Floor Talkback System			
No. of stations:	no	1	
Location:	yes/no	Drill floor	
Make/Type:		Gai-Tronics	
Explosion proof:		Yes	
H.6.4. Hand-Held VHF Radios			
Quantity:	no	6	
Quantity intrinsically safe:	no	6	
H.6.5. Crane Communication System			
Quantity:	yes/no	Same as P.A.S plus	
Make/type:		Standard Horizon Eclipse VHF Radio	
Explosion proof:	yes/no	No	
Part of rig telephone system (H.6.1):	yes/no	No	
Part of public address system (H.6.2):	yes/no	Yes	
H.7. ENVIRONMENTAL INSTRUMENTATION			
H.7.1. Temperature Indicators			
Air temperature (make/model):	yes/no	Davis Vantage Pro 2	
Recorder:		No	
Sea water temperature (make/model):			

Recorder:		yes/no	No
H.7.2. Barometric Pressure Indicator			
Make/model: Recorder:		yes/no	Weatherlane No
H.7.3. Humidity Sensing Indicator			
Make/model: Recorder:		yes/no	N/A N/A
H.7.4. Wind Speed/Direction Meter			
Make/model: Recorder:		yes/no	Koshivane Anemometer Davis Vantage Pro 2 No
H.7.5. Wave Profile Recorder			
Make/model: Recorder:		yes/no	N/A N/A
H.7.6. Current Indicator			
Make/model: Located at: Recorder:		yes/no	N/A N/A N/A
H.7.7. Weather Facsimile			NO
Make/model: Located at: Recorder:		yes/no	Navtek 7 Radio Room
H.8. NAVIGATION INSTRUMENTATION			
H.8.1. Gyro Compass			
Make/model: Located at:			N/A N/A
H.8.2. Depth Sounder			
Make/model: Located at: Recorder:		yes/no	Furuno / FCV-667 Control Room Control monitor
H.9. EXTERNAL COMMUNICATIONS EQUIPMENT			
H.9.1. SSB Transceiver			GMDSS System
Location(s): Quantity: Make/model: Power: Frequency ranges (low/high): Facsimile capable (see also H9.9): Telex capable (see also H.9.10):		no watts mhz/mhz yes/no yes/no	
H.9.2. E.P.I.R.Bs			

Quantity: Make/model: Location(s):		no	1 Jotron Tron 40S Top of jack house
H.9.3. Marine VHF Radio			
Quantity: Make/model: Power: Channels: Location:			1 Raytheon 55 25 watts 1-88 Radio room
Quantity: Make/model: Power: Channels: Location:	watts	no	1 Swift 55 25 watts 1-88 Jack house
H.9.4. Aircraft Radio Beacon Transmitter			
Quantity: Make/model: Power:	watts	no	1 Avionic MR7 100 watts
H.9.5. Aeronautical VHF Transceiver			
Quantity: Make/model: Power: Frequency range (low/high): (Synthesized/crystal): Location(s):	mhz/mhz	no	1 Jetron/TR6102 230 V 118 MHz to 136 MHz Radio room
H.9.6. Watch Receiver			
Quantity: Make/model: Frequency:	khz	no	1 Sailor VHF DSC RM 2042
H.9.7. Satellite Communication System			
Make/model: Type: Facsimile capable (see also H.9.9): Telex capable (see also H.9.10): Location(s):	yes/no	yes/no	Inmarsat and V-SAT C No Yes Radio room
H.9.8. Cellular			
Number of phone lines:		no	N/A
H.9.9. Facsimile			
Make/model: Connected to:			N/A
H.9.10. Telex			
Make/model: Connected to:			Oklmt 100N Saturn 3
H.9.11. Scrambler			
Make/model:			N/A

Connected to:		N/A
H.9.12. Other Communication Systems		
Make/Model:		1 – Honeywell TG502A – Radio Room
Connected to:		N/A
Make/Model:		2 – Sailor RT143 (1-80 Channels) Life Boat Port & Stbd
Connected to:		1 – ITT MacKay Emergency 500KHZ-8364KHZ at exit To deck house outside radio room
		2 ea Jotron Radar Transponder Tron-Sart-John House
		1 ea in Port Lifeboat & 1 ea Stbd Life Boat
I. PRODUCTION TEST EQUIPMENT		
I.1. BURNERS		
Make/type:		N/A
Quantity:	no	N/A
Capacity:	bbl/day	N/A
Weight:	st	N/A
Water required at 100 psi:	bbl/min	N/A
I.2. BURNER BOOMS		
Make/type:		N/A
Quantity:	no	N/A
Length:	ft	N/A
Horizontal:	yes/no	N/A
Maximum wind speed:	knots	N/A
Walkway and handrails:	yes/no	N/A
Burner platform size:	ft x ft	N/A
Burner mounting rotatable:	yes/no	N/A
I.3. PIPING ON BURNER BOOMS		
I.3.1. Oil Line		
ID:	in	N/A
Working pressure:	psi	N/A
Connection type at burner end:		N/A
H2S:	yes/no	N/A
Pressure gauge connection at barge end:	in	N/A
I.3.2. Gas Line		
ID:	in	N/A
Working pressure:	psi	N/A
Extended beyond burner by:	ft	N/A
Connection type at burner end:		N/A
Source service	yes/no	N/A
Pressure gauge connection at barge end:	in	N/A
I.3.3. Water Line		
ID:	in	N/A
Working pressure:	psi	N/A
Connection type at burner end:		N/A
Pressure gauge connection at barge end:	in	N/A

I.3.4. Air Line			
ID:	in	N/A	
Working pressure:	psi	N/A	
Connection type at burner end:	in	N/A	
Pressure gauge connection at barge end:	in	N/A	
I.3.5. Pilot Gas line			
ID:	in	N/A	
Working pressure:	psi	N/A	
Connection type at burner end:	in	N/A	
Pressure gauge connection at rig end:	in	N/A	
I.4. SPRINKLER SYSTEM			
System in place:	yes/no	Yes	
Pump source:		2 ea Mud Pumps National P120	
I.5. FIXED LINES FOR WELL TESTING			
I.5.1. Drill floor to Separator Area			
Type (threaded/welded/both):		N/A	
Quantity:	no	N/A	
Size ID:	in	N/A	
Working pressure:	psi	N/A	
Connection type on drill floor:	type	N/A	
Connection type at separator:	type	N/A	
Number of valves/lines:	no	N/A	
Size of valves:	in	N/A	
Source service	yes/no	N/A	
I.5.2. Separator Area to Each Burner Boom			
Service (oil/gas):		N/A	
Type (threaded, welded/both):		N/A	
Quantity:	no	N/A	
Size ID:	in	N/A	
Working pressure:	psi	N/A	
Connection at separator:	type	N/A	
Connection at boom:	type	N/A	
Number of valves/lines:	no	N/A	
Size of valves:	in	N/A	
Source service	yes/no	N/A	
Valves installed near separator area for Switching gas to either burner:	yes/no	N/A	
I.5.3. Mud Pumps To Both Burner Booms			
Type (threaded/welded/both):		Yes for spray only – Both	
Quantity:	no	2	
Size ID:	in	2"	
Working pressure:	psi	1250	
Number of valves required:	no	1	
Size of valves:	in	2"	
Pump source:	bbl/hr	Mud Pumps – Sea Water	
Rated line capacity at 300 psi:			
I.5.4. Rig Air System to Burners			
Type (threaded/welded/both):		N/A	
Quantity:	no	N/A	
Size ID:	in	N/A	

Working pressure: Non-return valves fitted: Air source:	psi yes/no	N/A N/A N/A
I.5.5. Oil Storage Tank To Offload		
Type (Screwed/welded, etc) Quantity Size Working pressure Height above water level Connection at separator area	no in psi type	N/A N/A N/A N/A N/A
I.5.6. Separator to Vent Stack Of Rig		
Type (threaded/welded/both): Quantity: Size ID: Working pressure: Connection type at separator area:	no in psi type	N/A N/A N/A N/A
I.6. AUXILIARY POWER AVAILABILITY		
I.6.1. For Field Laboratory		
Quantity: Volts: Frequency: Breaker:	no volts hz amp	480 volts 60 Hz 600 amp
I.6.2. For Crude Transfer Pump		
Quantity: Volts: Frequency: Breaker:	no volts hz amp	N/A N/A N/A N/A
I.6.3. For Electric Heaters		
Quantity: Volts: Frequency: Breaker:	no volts hz amp	N/A N/A N/A N/A
J. WORKOVER TOOLS		N/A
K. ACCOMMODATION		
K.1. OFFICES		
K.1.1. Company Representative's Office		
Quantity: Number of combination office/staterooms in above: Complete with desk, filing cabinet(s) and other necessary furniture: Quantity with unrestricted view to drill floor:	no no Yes no	1 1 Yes 1
K.1.2. Contractor's Representative's Offices		
Quantity:	no	1

Quantity with unrestricted view to drill floor:	no	1
K.1.3. Control Room		
Quantity:	no	1
K.1.4. Radio Room		
Quantity:	no	1
K.1.5. Hospital Ready Room		
Number of beds/bunks:	no	2
Dangerous drugs locker:	yes/no	Yes
K.2. LIVING QUARTERS		
K.2.1. Accomodations		
Total beds:	no	100
Number of rooms:	no	31 (13) x 4 beds room (with shared toilets & shower per two rooms) (1) x 4 beds room (with shared toilets & shower) (8) x 4 beds room (using communal toilets & showers room) + 1 change room on port & stbd (1) x 2 beds room (with shared toilets & shower) (2) x 2 beds room (with shared toilets & shower per two rooms) (2) x 1 bed room (with private toilets & shower) (4) x 1 bed room (with shared toilets & shower per two rooms)
K.2.2. Galley		
Quantity:	no	2
K.2.3. Mess Seating Capacity		
Main mess:	no	18
Aux. mess:	no	18
K.2.4. Meeting Rooms		
Quantity:		1
K.2.5. Recreation Rooms		
Quantity:	no	1
Recreation facilities:		
TV:	no	1
VCR:	no	0
Pool table:	no	0
Ping Pong Table:	no	0
Computer:	no	1
Workout/Weight Room:	no	0
Other:		DVD Player
K.2.6. Other Rooms		

Change rooms: Prayer Rooms: Cinema: Laundry Room:	no no no no	2 1 0 1
L. SAFETY EQUIPMENT		
L.1. GENERAL SAFETY EQUIPMENT		
L.1.1. General Personnel Protective Gear		
Safety glasses (contractor/everyone/not supplied):		Contractor / Service company provide their own
Safety hats (contractor/everyone/not supplied):		Contractor / Service company provide their own
Safety boots (contractor/everyone/not supplied):		Contractor / Service company provide their own
Safety clothing (contractor/everyone/not supplied):		Contractor / Service company provide their own
Ear protection (contractor/everyone/not supplied):		Contractor
Rubber gloves (contractor/everyone/not supplied):		Contractor
Rubber aprons (contractor/everyone/not supplied):		Contractor
Rubber gloves - elbow length (contractor/everyone/not supplied):		Contractor
Full-face visors (contractor/everyone/not supplied):		Contractor
Eye shields (for grinders) (contractor/everyone/not supplied):		Contractor
Dust masks (contractor/everyone/not supplied):		Contractor
Explosion proof hand torches (contractor/everyone/not supplied):		Contractor / Service company provide their own
Safety belts c/w lines (contractor/everyone/not supplied):		Contractor
L.1.2. Decontamination Stations		
L.1.2.1. Eye Wash Stations		
Quantity - fixed: Make/model: Location(s):	no	5 Hawes Rig Floor, Shaker House, Mud Pump Room, Main Deck by Mud Ditch, Mud Pit Room
Quantity - portable: Make/model: Location(s):	no	3 Engine room, sack room, mixing hopper
L.1.2.2. Safety Showers		
Quantity: Location(s):	no	4 Rig floor, Mud pump room, Shaker, Mud pit room
L.1.3. Derrick Safety Equipment		
Derrick escape chute (rem chute): Make/type: Geronimo line:	yes/no	SALA controlled descent Yes
Derrick safety belts: Make/type:	no	4 SALA full body harness
L.1.4. Derrick Climbing Assistant		

Make/type:		Counter Balance Type
L.1.5. Fresh Air Blowers (Bug Blowers)	no	6 Garrott & Brant 2 rig floor 2 shaker area, 2 Mud Pump Room
Quantity:		
Make/type:		
Located at:		
Located at:		
L.2. GAS/FIRE/SMOKE DETECTION		
L.2.1. H2S Monitoring System		
Make/Type:		Gas-Tec
Sampling points at:		Yes
Bell nipple:	yes/no	Yes
Drillfloor:	yes/no	Yes
Shale shaker:	yes/no	Yes
Mud tanks:	yes/no	Yes
Ventilation system living quarters:	yes/no	Yes
Other:		Welding Shop
Alarms at:		
Drillers console (audible/visual/both):		Both
Engine room (audible/visual/both):		Both
Mud room (audible/visual/both):		Both
Living quarters each level (audible/visual/both):		Both
Central area each structural level (audible/visual/both):		Both
Other:		
Tied to general alarm:	yes/no	No
Central control panel:	yes/no	Yes
Located at:		Rig Superintendent Office
Local alarm (audible/visual/both):		Both
L.2.2. Combustible Gas Monitoring System		
Make/type:		Gas-Tec
Sampling points at		
Bell nipple:	yes/no	Yes
Drill floor:	yes/no	Yes
Shale shaker:	yes/no	Yes
Mud tanks:	yes/no	Yes
Ventilation system into living quarters:	yes/no	Yes
Other:		Welding shop
Alarms at:		
Driller's console (audible/visual/both):		Both
Engine room (audible/visual/both):		Visual
Mud room (audible/visual/both):		Both
Living quarters each level (audible/visual/both):		N/A
Central area each structural level (audible/visual/both):		N/A
Other:		
Tied to general alarm:	yes/no	No
Central control panel:	yes/no	Yes
Located at:		Rig Superintendent office
Local alarm (audible/visual/both):		Both
L.2.3. H₂S Detectors (Portable)		
Quantity:	no	7
Make/Type:		BW/Gas Alert Max
Stain tubes for H ₂ S measuring range:		No
From 1 to 20 percent:	%	
From 100 to 600 percent:	%	
L.2.4. CO₂ Gas Detectors (Portable)		

Quantity: Make/type: Stain tubes for CO2 mesuring range: From 1 to 20 percent: From 5 to 60 percent:	% %	See L.2.3
L.2.5. Explosimeters		
Quantity: Make/Type:	no	See L.2.3
L.2.6. O2 Meter (Portable)		
Quantity: Make/Type:	no	See L.2.3
L.2.7. Fire/Smoke Detectors in Accommodation		
Make/type: Fire detection: Smoke detection: Central control panel: Location: Alarms: Pull boxes:	yes/no yes/no yes/no no no	Wormald – Minera Marine Yes Yes Yes OIM office & Radio room
L.3. FIRE FIGHTING EQUIPMENT		
L.3.1. Fire Pumps		
Quantity: Make/Model: Type: Output (each):	no U.S. gals/min	1 Mission Magnum 2 x 3 D 400 U.S. gals/min
Location:		Auxiliary Machine Room
Quantity: Make/Model: Type: Output (each):	no U.S. gals/min	1 Mission Magnum 2 x 3 D 400 U.S. gals/min
Location:		Sack Room
All off-take points supplied by all pumps:	yes/no	Yes
L.3.2. Hydrants and Hoses		
Hydrants positioned such that any point may be reached by a single hose length from two separate hydrants: Quantity of hydrants: Hose connections/hydrant: Hose max. diameter: Length:	yes/no no no in ft	Yes 27 27 1-1/2 in 50 ft
L.3.3. Portable Fire Extinguishers		
Quantity (total): Type 1-CO2:	no no/lbs	71 19 – 15 lbs 4 – 20 lbs 2 – 35 lbs 1 – 50 lbs 1 – 75 lbs 1 – 100 lbs

Type 2- Dry chemical: Type 3-Foam: Water: Halon:	no/lbs no/gal no/lbs no/lbs	30 – 20 lbs 4 – 10 lbs 5 – 5 lbs 3 – 9 L
L.3.4. Fire Blankets Quantity: Location(s):	no	9 2 ea rig floor, 2 ea motor room, 1 ea shale shaker, 2 ea galley, 1 ea clinic, 1 ea mud lab
L.3.5. Fixed Foam System Make/type: Quantity of foam concentrate stored: Foam type: Application rate:	U.S. gal U.S. gals/min no	Feecon 100 U.S. gal AFFF 6% 120 U.S. gals/min
Foam nozzles: Located at: Located at: Automatically injected into fixed fire system:	yes/no	2 nos. Helideck Engine room Yes
L.3.6. Helideck Foam System Make/type: Quantity of monitors: Quantity of foam concentrated stored: Foam type: Application rate:	no U.S. gal U.S. gals/min	Feecon 2 400 ltrs (tank capacity 1000 ltrs) AFFF 3% 5.5 L/min per sq/m
L.3.7. Fixed Fire Extinguishing System Protected spaces: Engine room, type (Halon/CO2/other): Remote manual release located at: Paint locker, type (Halon/CO2/other): Remote manual release located at: Emergency generator, type (Halon/CO2/other): Remote manual release located at : SCR room, type (Halon/CO2/other) Remote manual release located at: Other – Galley Hoods, Type (Halon/CO2/other): Remote manual release located at: Alarms (audible, visual or both): Automatic shutdown of ventilation fans in protected spaces:	yes/no	Halon CO2 CO2 CO2 CO2 Other (wet agent) Yes
L.3.8. Manual Water Deluge System Protected spaced: Water supplied from fire main line:	yes/no	N/A N/A
L.3.9. Water Sprinkler System in Accommodation Automatic activation: Working pressure: Tank capacity: Salt water backup: Type (wet pipe/dry pipe):	yes/no psi gal yes/no	N/A N/A N/A N/A N/A

L.4. BREATHING APPARATUS			
L.4.1. General Sets			
Quantity:	no	13	
Make:		Drager	
Type (demand/positive pressure):		Positive	
Cascade system quick connects:	yes/no	No	
Cylinder duration:	min	30	
Located at:	qty/loc	1 – Shale Shaker	
Located at:	qty/loc	0 – Motor Room	
Located at:	qty/loc	1 – Mud Pump Room	
Located at:	qty/loc	1 – Bow Fire Boxes	
Located at:	qty/loc	2 – Helideck Fire Boxes	
Located at:	qty/loc	2 – Deck Outside Control Room	
Located at:	qty/loc	2 – Main Deck	
Located at:	qty/loc	2 – Rig Floor	
Located at:	qty/loc	1 – Safety Stores	
Located at:	qty/loc	1 - Storage Room	
L.4.2. Escape Sets			
Quantity:	no	N/A	
Make/Type		N/A	
Cascade system quick connect:	yes/no	N/A	
Cylinder duration:	min	N/A	
Located at:	qty/loc	N/A	
L.4.3. Cascade Stations			
Quantity:	no	N/A	
Make/Type:		N/A	
Manifold locations/outlets at location:		N/A	
L.4.4. Breathing Air Recharge Compressor			
Make/Type:		N/A	
Location:		N/A	
L.4.5. Compressed Air Breathing Apparatus Trolley Unit			
Make:		N/A	
Type (demand/positive pressure):		N/A	
Air line length:	ft	N/A	
Compressed air storage capacity:	ft3	N/A	
Working pressure:	psi	N/A	
Including:		N/A	
Face mask:	yes/no	N/A	
Demand valve:	yes/no	N/A	
Microphone:	yes/no	N/A	
Safety harness:	yes/no	N/A	
Safety line (incorporating telephone line):	yes/no	N/A	
L.4.6. Air Purity Test Equipment			
Quantity:	no	N/A	
Make/type:		N/A	
L.5. EMERGENCY FIRST AID EQUIPMENT			

L.5.1. First Aid Kits		no	3
Quantity:			
L.5.2. Burn Kits		no	Treatment in sickbay
Quantity:			
L.5.3. Resuscitators		no	4
Quantity:		no	4
Charged (spare) oxygen cylinders:			
L.5.4. Stretchers		no	2 Wire basket (stokes) Rig floor, Bottom storage room
Quantity:		no	2 Formed Plastic Basket Outside Clinic door in hallway, Outside Radio Room
Type:			
Located at:			
Quantity:			
Type:			
Located at:			
L.6. HELIDECK RESCUE EQUIPMENT			
Aircraft Axe:		yes/no	Yes
Large fireman's rescue axe:		yes/no	Yes
Crowbar:		yes/no	Yes
Heavy duty hacksaw:		yes/no	Yes
Spare blades:		yes/no	Yes
Grapnel hook:		yes/no	Yes
Length of wire rope attached:	ft	25 ft	
Quick release knife:		yes/no	Yes
Bolt croppers:		yes/no	Yes
Fireman's outfit:		yes/no	Yes
CO2 Lance:		yes/no	Yes
Other:			
L.7. EMERGENCY WARNING ALARMS			
Approved system to give warning of different emergencies:		yes/no	Yes
Activated from drill floor:		yes/no	Yes
L.8. SURVIVAL EQUIPMENT			
L.8.1. Lifeboats			
Make/type:			Schat Harding
Quantity:		no	1
Capacity:		person/craft	50 persons/craft
Location (frwd, aft, port, stbd):			Port
Fire protection:		yes/no	Yes
Radio/EPIRB:		yes/no	Yes
Make/type:		no	Schat Harding
Quantity:		person/craft	1
Capacity:			50 persons/craft
Location (frwd/aft/port/stbd):		yes/no	Stbd
Fire protection:		yes/no	Yes
Radio/EPIRB:			Yes

L.8.2. Life rafts			Zodiac 2 25 persons/craft Yes Aft Port
Make/type: Quantity: Capacity: Davit launched: Locations (frwd/aft/port/stbd):	no person/craft yes/no		
Make/type: Quantity: Capacity: Davit launched: Location (frwd/aft/port/stbd):	no person/craft yes/no		Zodiac 2 25 persons/craft Yes Aft/Stbd
L.8.3. Fast Rescue Boat			
Make/Type: Engine power:	hp		N/A
L.8.4. Personal Floatation Devices			
Make/type: Quantity:	no		Safeguard 1 Adult 125
L.8.5. Survival Suits			
Make/type: Quantity:	no		Mustang Ocean Commander/OC 4000 125
L.8.6. Life Ring Buoys			
Make:/type: Quantity total: With lights: With smoke: With EPIRB:	no no no no		Life buoys 11 8 2 No
L.8.7. Work Vests			
Quantity:	no	32	
L.8.8. Escape Ladders/Nets			
Make/type: Quantity:	no		Ladder 3 one each leg
M. POLLUTION PREVENTION EQUIPMENT			
M.1. SEWAGE TREATMENT			
Make/Model: System type: Capacity:			Onipure 12 MX Chemical treatment 250 people per day
M.2. GARBAGE COMPACTION			
Make/Model: System type:			International Tool Supply, Scavenger/Model SA
M.3. GARBAGE DISPOSAL/GRINDER			
Make/model: System type:			Gulf Gulp

M.4. INCINERATOR			
Make/model: System type:			N/A N/A
M.5. OILY WATER SEPARATOR			
Quantity: Make/model: System type:	no	1 Heli-Sep 5000-OCD CM Gravity coalescer, vacuum, fully automatic cylindrical pressure/vacuum vessel	
Nominal throughput: Separation capacity:	gpm	22 GPM @ 15 ppm	
N. ADDITIONAL INFORMATION			
N.1. TOW REQUIREMENTS			The minimum tow vessel requirements is two vessels class tugs with a combined 120 Ton bollard pull continuous in open waters with obstructions or platform. Minimum one vessel with 100 Ton bollard pull continuous in open waters with no obstructions. Preferred three vessel for rig positioning.
N.2. ZINC BROMIDE			Coflexip hoses currently installed are not compatible with zinc bromide. Use of zinc bromide will require changing of hoses.

