

EQUIPMENT LISTS (OEM)

EQUIPMENT LISTS (OEM)		
NO.	RIG NAME DESCRIPTION	JU2000E - E14, E16, E17, E18, E20, E21, E22 MAKER (OEM)
1	Drilling Equipments Package	National Oilwell Varco
2	Generator Sets	Caterpillar
3	Pedestal Deck Cranes	Liebherr
4	Power Supply Package	SIEMENS
5	Mud Conditioning and Mixing System	National Oilwell Varco
6	Automation	Emerson Process Management Co. Ltd.
7	Jacking System	BLM(NOV)
8	Rack Chock System	Friede & Goldman Ltd.
9	BOP Handling	TSC
10	Skidding System	PH Hydraulics & Engineering Pte Ltd
11	Conductor Tensioning System	TSC
12	Water Makers	NORWATER
13	Air Compressors	Ingersoll-Rand
14	HVAC	CARRIER
15	BOP Control System	Cameron
16	BOP	Cameron
17	Diverter	GE-Hydriil-Vetco Gray
18	Purifier	Alfa-Laval,
19	Valves	-
a	General valves	Shanghai Liangong Valve Co.,Ltd (China)
b	Butterfly valves	Shanghai Liangong Valve Co.,Ltd (China)
c	Vent check valves	Shanghai Liangong Valve Co.,Ltd (China)
d	Instrument & Flow Control Valves	Shanghai Liangong Valve Co.,Ltd (China)
20	Plate type exchanger	APV
21	Cables	-
a	690V&VFD power	Draka
b	480V and control cable	Yangzhou Yuanyang Marine cable
	Pumps	-
a	Bilge/stripping pump	S & N Pump Inc.
b	Drill water/emergency fire pump/genl service	S & N Pump Inc.
c	Fire pump	S & N Pump Inc.
d	Drill water pump	S & N Pump Inc.
e	Foam/deluge pump	S & N Pump Inc.
f	Dirty oil pump	S & N Pump Inc.
g	Diesel oil service pump	S & N Pump Inc.
h	Fuel oil transfer pump	S & N Pump Inc.
i	Hot water circulation pump	S & N Pump Inc.
j	Raw water pump	S & N Pump Inc.
k	Pre-load pump	S & N Pump Inc.
l	Fire main charging pump	S & N Pump Inc.
m	N.sewage transf. Pump	S & N Pump Inc.
n	O.waste mud pump	S & N Pump Inc.
o	P.waste pump	S & N Pump Inc.

* Equipment List based on IADC or Technical Proposal given

EQUIPMENT LISTS (OEM)

NO.	RIG NAME DESCRIPTION	DSJ400 MAKER (OEM)
1	Drilling Equipments Package	National Oilwell Varco
2	Generator Sets	Caterpillar
3	Pedestal Deck Cranes	Liebherr
4	Power Supply Package	SIEMENS
5	Mud Conditioning and Mixing System	National Oilwell Varco
6	Automation	Emerson Process Management Co. Ltd.
7	Jacking System	BLM(NOV)
8	Rack Chock System	Friede & Goldman Ltd.
9	BOP Handling	TSC
10	Skidding System	PH Hydraulics & Engineering Pte Ltd
11	Conductor Tensioning System	TSC
12	Water Makers	NORWATER
13	Air Compressors	Ingersoll-Rand
14	HVAC	CARRIER
15	BOP Control System	Cameron
16	BOP	Cameron
17	Diverter	GE-Hydriil-Vetco Gray
18	Purifier	Alfa-Laval,
19	Valves	-
a	General valves	Shanghai Liangong Valve Co.,Ltd (China)
b	Butterfly valves	Shanghai Liangong Valve Co.,Ltd (China)
c	Vent check valves	Shanghai Liangong Valve Co.,Ltd (China)
d	Instrument & Flow Control Valves	Shanghai Liangong Valve Co.,Ltd (China)
20	Plate type exchanger	APV
21	Cables	-
a	690V&VFD power	Draka
b	480V and control cable	Yangzhou Yuanyang Marine cable
	Pumps	-
a	Bilge/stripping pump	S & N Pump Inc.
b	Drill water/emergency fire pump/genl service	S & N Pump Inc.
c	Fire pump	S & N Pump Inc.
d	Drill water pump	S & N Pump Inc.
e	Foam/deluge pump	S & N Pump Inc.
f	Dirty oil pump	S & N Pump Inc.
g	Diesel oil service pump	S & N Pump Inc.
h	Fuel oil transfer pump	S & N Pump Inc.
i	Hot water circulation pump	S & N Pump Inc.
j	Raw water pump	S & N Pump Inc.
k	Pre-load pump	S & N Pump Inc.
l	Fire main charging pump	S & N Pump Inc.
m	N.sewage transf. Pump	S & N Pump Inc.
n	O.waste mud pump	S & N Pump Inc.
o	P.waste pump	S & N Pump Inc.

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EQUIPMENT LISTS (OEM)

NO.	RIG NAME	R550D MAKER (OEM)
1	Drawworks	TSC
2	Derrick Structure	TSC
	Crown Block	TSC
3	Travelling Block	American Block or Equivalent
4	Casing Stabbing Basket	TSC
	Casing Control Console	TSC
5	Air Hoist On Finger Board	Ingersoll-Rand or Equivalent
6	Personnel Safety Devices	SALA or Equivalent
7	Top Drive	TESCO or Equivalent
8	Deadline Anchor	American Block or Equivalent
9	Drill Line Spooler and 7500' 1-3/4" Drilling Line	TSC
10	Drill Floor Hydraulic Power Unit Package ,	TSC
11	Rotary Table	TSC
12	Catheads	TSC
13	Air Winches	TSC
14	Man Rider Winch	Ingersoll-Rand or Equivalent
15	Wire line Unit	Millennium or Equivalent
16	Bug Blower	JOSON
17	Drill Floor Air Receiver	DYWB or Equivalent
18	Catwalk Machine	TSC
19	Knuckle Boom Pipe Handling Crane	TSC, Outreach or Equivalent
20	Guardian Racker	TSC
21	Hydraulic Mouse Hole	TSC
22	Drill Pipe Finger Board	TSC
	Casing Finger Board	TSC
23	Pedestal Iron Roughneck	B.V IR120 or equivalent
24	Pedestal Iron Roughneck	B.V IR120 or equivalent
25	Power Slip	B.V. or equivalent
26	HP Mud Pumps	TSC
27	Mud Charge Pump	TSC
28	Mud Mixing Pump	TSC
29	Brine Water Pump	TSC
30	Base Oil Pump	TSC or Equivalent
31	Sand Pump	TSC
32	LP Shear Pump	TSC
33	Liquid Chemical Additive Pump Skid	Votex or Equivalent
34	30KW Mud Agitator, Vertical Type	TSC
35	7.5KW Mud Agitator, Vertical Type	TSC
36	Mud Gun	TSC
37	Sack Cutting and Bulk Power Dosing Unit	Votex or Equivalent
38	Mud Jet Hopper	TSC, MI-Swaco or Equivalent
39	Bulk Surge Tank	DYWB or equivalent
40	Mud Gas Separator	TSC, MI-Swaco or Equivalent
41	Gumbo Conveyor	Derrick or Equivalent
42	Shale Shaker	MI-Swaco or Equivalent
43	Mud Cleaner	MI-Swaco or Equivalent
44	Vacuum Degasser	MI-Swaco or Equivalent
45	High Speed Centrifuge c/w screw pump	MI-Swaco or Equivalent
46	Trip Pump	TSC
47	Cutting Auger	MI-Swaco or Equivalent
	P Tanks	DYWB or equivalent
	Air Surge Tank	DYWB or equivalent
48	Dust Collection Tank	DYWB or equivalent
	Control Console	DYWB or equivalent
	Valve and Pipe Kit	DYWB or equivalent
49	Stand Pipe Manifold	WOM or Equivalent
50	Cement Manifold	WOM or Equivalent
	Kill and Choke Manifold	WOM or Equivalent
51	Choke Valve Control Panel	WOM or Equivalent
52	Choke/Kill Hose	Techflow or Equivalent
53	HP Rotary Hose	Techflow or Equivalent
54	Cement Hose	Techflow or Equivalent
55	Driller's Cabin (c/w resilient pad to reduce	TSC
56	Drilling Control and Data Acquisition System	TSC
57	Drilling Equipment Zone Management System	ABS Consulting or TSC or Equivalent
58	CCTV system	TSC
59	Talk Back System For Well Drilling Operation	TSC
60	Local Instrumentation Room	TSC
61	Well Drilling Instrumentation System	TSC
62	BOP Handling System	TSC
63	CTU/CTP	TSC
64	Cantilever/Drillfloor Skidding	TSC

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EQUIPMENT LISTS (OEM)		
NO.	RIG NAME	CMHI-1431-1, CMHI-1431-2
	DESCRIPTION	MAKER (OEM)
1	Derrick/Mast	National Oilwell Varco
2	Jacking Systems	Gusto MSC
3	Finger board	National Oilwell Varco
4	Pipe Handling	National Oilwell Varco
5	Service & Access Basket	National Oilwell Varco
6	Substructure	Gusto MSC X-Y Skidding Cantilever
7	Derrick TV Camera System	Hernis
8	Drawworks	National Oilwell Varco
9	Auxiliary Brake	National Oilwell Varco
10	Wireline Unit	Mathey Surveyor II
11	Crown Block	National Oilwell Varco
12	Travelling Block	National Oilwell Varco
13	Swivel	National Oilwell Varco
14	Dead Line Anchor	National Oilwell Varco
15	Block Guidance System	National Oilwell Varco
16	Rotary Table	National Oilwell Varco
17	Master Bushings	MPCH
18	Top Drive	National Oilwell Varco
19	Top Drive Makeup/Breakout System	National Oilwell Varco
20	Diesel Engines (Main)	Caterpillar
21	AC – Generator (Main)	KATO
22	VFD System	SIEMENS
23	Transformer System	Trafotek, Taizhou Haichuan
24	Compressed Air Systems	Gardner Denve
25	Emergency Engine	Caterpillar
26	AC – Generator (E-Gen)	Leory Somer
27	Drill Pipe Elevators	National Oilwell Varco
28	Semi-Automatic DP Slips	National Oilwell Varco
29	Mud Saver Bucket	National Oilwell Varco
30	Iron Roughneck	National Oilwell Varco
31	Diverter BOP	GE Vetco Gray
32	Diverter Flowlines	KVC
33	Diverter Control Panel	Koomey
34	Ram Type Preventers	Shaffer
35	Annular Preventer	Shaffer
36	Kill Line Valves	Shaffer
37	Choke Line Valves	Shaffer
38	Accumulator Unit	Koomey
39	Accumulator Hydraulic Pumps	Koomey
40	Primary Control Panel	Koomey
41	Remote Control Panels	Koomey
42	Hydraulic BOP Test Pump	Shaffer
43	BOP Hoist System	JDN
44	Conductor Pipe Tensioning System	PH
45	Mud Pump	National Oilwell Varco
46	Mixing Pump	Derrick
47	Mud Charging Pump	Derrick
48	Standpipe Manifold	National Oilwell Varco
49	Shale Shakers and Gumbo	Derrick
50	Mud Cleaner (c/w desander & desilter)	Derrick
51	Mud/Gas Separator (Poor Boy)	National Oilwell Varco
52	Degasser	Derrick
53	Mud Agitators	MI SWACO
54	Mud Centrifuge	Derrick
55	Mud Guns	National Oilwell Varco
56	Mud Hopper	Derrick
57	Surge Tank for Barite/Bentonite	HICO PETRO-TECH
58	Dust collector	HICO PETRO-TECH
59	Slip Type Elevator/Spiders	National Oilwell Varco
60	Casing Slips	National Oilwell Varco
61	Drilling Control	NOV / Amphion

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