

Year Manufacture:	2009
Mast	
Type:	SHL Cantilever Mast
Height:	136 ft.
Max Allowable Static Hook Load:	600,000 lbs. on 10 lines & 660,000 lbs. on 12 lines
Racking Capacity (5 in DP):	400,000 lbs.
Drawworks	
Drawworks Make/Model:	National 80 UE
Total Input Power:	1,200 hp
Number of Motors:	2 GE 752
Drilling Line Size:	1-3/8 in.
Traveling Equipment	
Traveling Block Make/Model:	EMSCO
Hoisting Capacity:	400 tons
Substructure	
Type:	Sling-Shot
Rig Floor Height:	22 ft.
Clear Working Height:	22 ft.
Setback Capacity:	400,000 lbs./450,000
Rotary Equipment	
Top Drive Make/Model:	TBP
Hoisting Capacity:	250 tons
Maximum Continuous Torque:	37,100 ft.-lbs.
Total Input Power:	800 hp
Number of Motors:	2
Rotary Table Make/Model:	National C-275
Size:	27-1/2 in.
Dead Load Capacity	500 tons
BOP System	
Annular Preventer Make/Model:	Shaffer Type
Size:	13-5/8 in.
Pressure Rating:	5,000 psi
Ram Preventer Make/Model:	Shaffer LWS Type Double
Size:	13-5/8 in.
Pressure Rating:	10,000 psi
BOP CONTROL UNIT	
Make/Model:	Koomey 6 station
Pressure Rating:	3000-5000 PSI



Gensets

Engine Make/Model:	CAT D398 -1000 HP each
Generator Make/Model:	Kato 1100 KVA 600 V
Number of Gensets:	2

Power Distribution

Gen. Control Make/Model:	INTEGRATED POWER SYSTEMS
Power Distribution:	4-Bay SCR Electrical Control 480V & 600V

Mud Pumps

Pump Make/Model:	CONTINENTAL EMSCO FB- 1600
Total Input Power per Pump:	Triplex 1600HP
Pressure Rating:	7,500 psi
Total Number of Pumps:	1

Mud Pumps

Pump Make/Model:	WEATHERFORD MP-16 1600HP
Total Input Power per Pump:	Triplex Mud Pump 1600HP
Pressure Rating:	1,600hp
Total Number of Pumps:	1

Mud Handling/Solids Control

Total Mud Volume:	800 bbls (400 bbls X 2)
Shale Shakers Make/Model:	VORTEX 3-ORBITAL 3000
Number of Shakers:	Shale Shakers (LMSS)
Desander Make/Model:	Derrick In-Line 2-Cone
Number of Desanders:	1 DERRICK Round 10-Cone
Deslitter Make/Model:	1 DERRICK Mud D-Gasser 1
Number of Desilters:	1
Degasser Make/Model:	Derrick Type Vacuum Degasser
Number of Degassers:	1

Design Features (All main components confirm to API specification)

Mast & Substructure

- Cantilever Mast and substructure, and the mast sections are scoped via the Drawworks
- Mast is completely assembled at horizontal position, pinned to the drill floor, and with the drill floor in the lowered position
- Beams are integrated into the mast structure for the dissipation of torque generated by the top drive during operation.
- Substructure's slingshot design allows floor equipment to be installed in its lower position and swing up in place during the raising operation. Subsequently, it is all lowered simultaneously as the rig is lowered.
- Maximum package for transportation for either the mast or substructure is 55.6 feet in length x 13.5 feet in width x 9.4 feet in height. Maximum weight associated with this package is 32,000 lbs, or 16 metric tons.

Mud Pumps

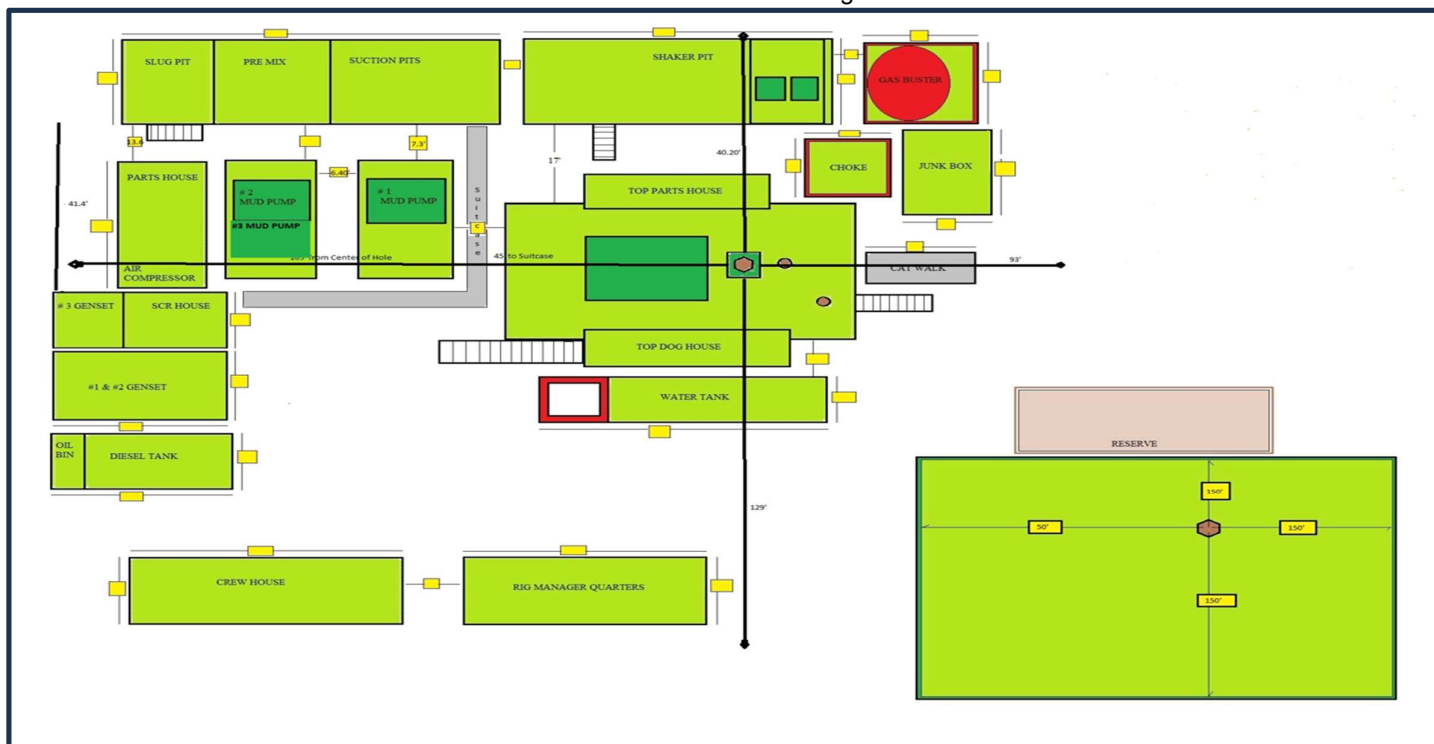
- Two (2) EMSCO Type FB -1600 1(Triplex 1600 HP) 7500 psi mud pump packages powered by 2 ea. GE 752 type traction motor.

Drawworks

- Unified Electric drive, which offers smoother operation, better control, and improved energy efficiency compared to traditional mechanical or diesel systems.
- Can achieve constant bit weight and automatic bit feed control 0.3 - 197 ft/hr (0.1-60 m/hr) allows the system to maintain consistent weight on bit (WOB) during drilling, optimizing penetration rates while protecting the drill bit and string
- Drawworks features a simple mechanical transmission and reliable controls.
- Brake system is a combination of hydraulic disc brakes and dynamic brakes.
- Motor, gearbox, drum, lubricating system and disc brake are installed on skid as one piece for ease of transportation.
- Digital control of drawworks parameters, such as hook speed, hook position, automatic drilling and dynamic braking. Drawworks' air and hydraulic systems controlled by the programmable logic controller (PLC) system in driller's console.

Controls

- Variable frequency drive (VFD) control technologies and integrated PLCs for TDS. Driller monitors and operates essential drilling functions from a driller's chair located on the rig floor.



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