

GSP SATURN



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DRILLING RIGS •

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TECHNICAL DATA

GENERAL

Rig Type:	Four legs, self elevating unit
Design:	Sonnat Offshore Company
Builder:	Galatzi Shipyard, Romania
Year Built:	1988, rebuilt in 2009
Classification:	ABS
Flag:	Panama
Accommodation:	100 pax
Helideck:	80 x 80 ft, rated for PUMA SA 330 B / BELL 212 – 412 helicopter
Max. Drill Depth:	30,000 ft
Max. Water Depth:	300 ft (91 m)
Operating Conditions:	Wave: 30 ft @ 12 sec; Wind: 50 knots; Surface Current: 2 knots
Storm Conditions:	Wave: 39 ft @ 10 sec; Wind: 86 knots; Surface Current: 2 knots

TECHNICAL DIMENSIONS

Length:	172 ft / 52.4 m
Breadth:	134 ft / 40.8 m
Depth:	21 ft / 6.4 m
Ocean Transit Draft:	32 ft / 9.75 m
VDL – Operating:	2,200 st / 2,000 mt

CAPACITIES

Liquid Mud:	1,880 bbls / 10,555 cu ft / 299 m ³
Oil Base Mud:	1,180 bbls / 6,625 cu ft / 187.6 m ³
Brine:	2,400 bbls / 13,475 cu ft / 381.5 m ³
Drill Water:	3,600 bbls / 20,212 cu ft / 572 m ³
Potable Water:	1,272 bbls / 7,142 cu ft / 202.3 m ³
Fuel Oil:	1,640 bbls / 9,208 cu ft / 260.8 m ³
Bulk Mud:	4,620 cuft / 131 m ³
Bulk Cement:	4,620 cuft / 131 m ³
Sack Material:	1,000 sacks

DRILLING EQUIPMENT

Derrick:	Upretom, 166.9 ft x 34.7 ft x 30 ft; 1,000 kips static hook load
Drawworks:	NOV, ADS 10 D, 3,000 HP
Driller's Cabin:	Dual Chairs, NOV Amphion System
Top Drive:	NOV, TDS 8 SA – 750 tons
Rotary:	Upretom, MRL-375, 37 ½ in opening, independent drive
Pipe Handling:	NOV PRS-8i (double arms) Cat Walk Machine CWM-P10-50LS-NOV Automated Fingers Board Iron Roughneck AR 3200 NOV Power Slips PS -21 NOV BX 4-50 Hydraulic Elevator NOV HC-26 EV Dual Cathead NOV Fox Hole Spider Varco Amphion Integrated Control System
Mud Pumps:	3 x triplex 1,600 HP each, 7500 PSI WP



TECHNICAL DATA

Shale Shakers:	4 x Mongoose Swaco, PT Dual Motions
Desilter & Desander:	1 x Swaco, 16 x 4 in cones, 1,000 gpm
Mud Cleaner:	Mongoose PT Dual Motions
BOP:	1 x 13 - 5 / 8 in Hydrill 5 K annular, 1 x 13 - 5 / 8 in Cameron U 10 K single, 1 x 13 - 5 / 8 in Cameron U 10 K double
Diverter:	MSP 29 1/2 in x 500 psi with 2 x 12 in hydraulic valves
Control System:	Koomey UET 302460-A85461-32-11 SB, 3,000 psi
Choke & Kill:	1 x 3 in x 15 K choke manifold with 2 x 3 - 1 / 16 in x 15 K remote control chokes 1 x 3 - 1 / 16 in x 15 K manual choke
Cementing:	Schlumberger Cementing Unit (Third Party)

MACHINERY

Main Power:	5 x Caterpillar 3512 DITA, 8,430 HP total, 600 V, AC
Emergency Power:	1 x Caterpillar C-18, 587 HP, 400 V, AC
Power Distribution:	VFD
Deck Cranes:	2 x AmClyde 10000 x 70 ft, 40 mt @ 14.4 ft 1 x AmClyde 5500 HD x 100 ft, 25 mt @ 23.62 ft

JACK-UP SPECIFICATIONS

Legs:	Triangle; 4 x 399 ft; usable bellow hull = 352.75 ft
Leg Spacing:	Longitudinal 126 ft; Transverse 109 ft
Spud Cans:	38.83 ft diameter x 8.11 ft height
Jacking System:	Orion Class Pin & Hole
Cantilever / Slot:	Cantilever 55 ft x 20 ft

MOORING EQUIPMENT

Winches:	2 ea x 20 to, B type, electric drive
Wire / Chain:	1 1/4 in x 300 m
Anchors:	2 x 4.5 to Hall





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