



# RIG 309 1200 m/4,000 ft

## Savanna Drilling

### RIG

Warrior Single 60 ft/18 m Mast  
 Static Hook Load: 110,000 lbs/48 000daN (6 lines)  
 Warrior Trailer Mounted Substructure  
 Caterpillar C9 Floor Motor (400 hp/298 kW)  
 4-1/2" Kelly with Upper and Lower Kelly Cock  
 18" Gardner Denver Rotary Table  
 120,000 lbs/52 500 daN 6 line Tripping Blocks  
 with Haglunds Drawworks 3/4" Line  
 120,000 lbs/52 500 daN 6 line Kelly Blocks  
 with Haglunds Drawworks 3/4" Line  
 Sandline Core Retrieval Winch/Survey Winch

### DOGHOUSE

Height: 13' 3"/4.04 m (Ground to Top of Building)  
 Tri Axle Step Deck Trailer  
 Core Bench

Water Tank Volume: 882 ft<sup>3</sup>/25 m<sup>3</sup>/157 bbl  
 Storage on Trailer Gooseneck

### COMBINATION BUILDING

Height: 13'/3.97 m (Ground to Top of Building)  
 Tri Axle Step Deck Trailer  
 Cummins Generator Engine 6CTA8  
 175 kW Newage Generator (480 v/208 v)  
 40 Gallon 4 Station Accumulator  
 Storage on Trailer Gooseneck

### CATWALK

Height: 9' 2"/2.8 m (Ground to Top of Building)  
 Tri Axle Step Deck Trailer  
 Storage on Trailer Gooseneck

### MUD TANKS

Height: 9' 10"/3.0 m  
 Trip Tank Volume: 105 ft<sup>3</sup>/2.97 m<sup>3</sup>/19 bbl  
 Suction Tank Volume: 175 ft<sup>3</sup>/4.95 m<sup>3</sup>/31 bbl  
 Settling #1 Tank Volume: 253 ft<sup>3</sup>/7.18 m<sup>3</sup>/45 bbl  
 Settling #2 Tank Volume: 253 ft<sup>3</sup>/7.18 m<sup>3</sup>/45 bbl  
 Shaker Tank Volume: 333 ft<sup>3</sup>/9.43 m<sup>3</sup>/59 bbl  
 Total Volume: 1119 ft<sup>3</sup>/31.71 m<sup>3</sup>/200 bbl  
 Mix Pump and Hopper  
 Swaco Mongoose Shaker  
 3 x 2 Manifold 3000 psi  
 Pressure Washer

### MUD PUMP (Triplex)

Height: 9' 6"/2.9 m  
 Sinocan CSF 500 Triplex Mud Pump  
 Caterpillar C15 Engine (600 hp/448 kW)  
 with Pac Rim Gear Box  
 150 psi Air Compressor  
 Day Tank

### FLARE TANK

282 ft<sup>3</sup>/8 m<sup>3</sup>/50 bbl Tank  
 Storage on Front and Back of Trailer

### WELL CONTROL

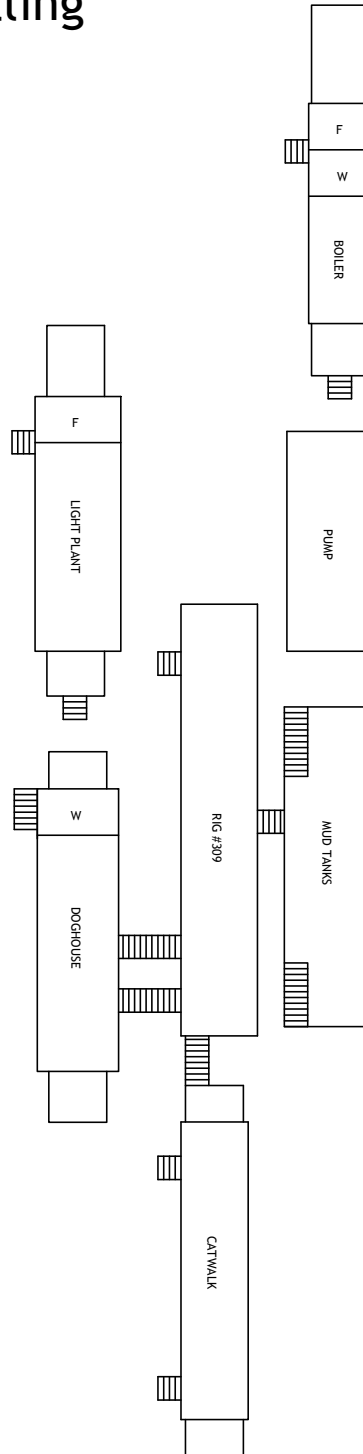
BOP's 177.8 mm 7" x 21,000 kPa (3000 psi) Class 3

### WINTERIZATION

Williams & Davis Boiler (60 hp)  
 Fuel Tank Volume: 225 ft<sup>3</sup>/6.37 m<sup>3</sup>/40 bbl  
 Water Tank Volume: 512 ft<sup>3</sup>/14.5 m<sup>3</sup>/91 bbl  
 Storage on Trailer Gooseneck

### TUBULARS

1200 m x 3 1/2" IF Drill Pipe  
 4 3/4" DC x 8  
 5 1/4" DC x 2  
 4 1/2" IF x 500 m Core Pipe



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△	02/14/11	UPDATED TITLEBLOCK	CAA		
REV#	DATE	DESCRIPTION	REV#	CHKD BY	AUTHD BY
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SCALE:	TITLE: Rig Layout (1200 m/4000 ft)			
1" = 1'-0"	DRAWN BY: EPB	CHKD BY:	AUTHD BY:	
TITLEBLOCK:	CLIENT: DRILLING	RIG: 309	DATE: 03/31/09	
DWG #:	SY101L309LO		REV #:	1