



# RIG 414

## 1500 m/4,920 ft

### Savanna Drilling

Total loads: 8 (coil and BHA only)  
 Total loads winter: 9 (coil and BHA only)

The number of rig loads may vary depending on road bans, various county restrictions and non-standard rig inventory

**COIL TUBING UNIT**

Single 70' mast (7/8" drill line)  
 Static hook load: 100,000 lbs/44 500 daN (6 lines)  
 Trailer mounted substructure on 16 wheel trailer  
 FDS 50T top drive with grabber box (6600 ft/lbs of torque)  
 Cummins QSM 11 floor motor 350HP  
 FDS 80K injector (2 7/8" or 3 1/2" tubing capability depending on rig)  
 Storage reel capacity: (2 7/8"=1350 m and 3 1/2"=1200 m)  
 Rotary table with 13 7/8" opening, 1600 ft/lbs torque, 44 550 daN

**DOGHOUSE**

Water tank volume: 1,400 ft<sup>3</sup>/40 m<sup>3</sup>/252 bbl  
 Control panel for all rig functions  
 Tool house and oil storage

**CATWALK**

Remote controlled hydraulic functions level catwalk, racks and lifts V-door  
 Remote controlled hydraulic functions move pipe up and down V-door and across catwalk  
 Built in pipe tub can hold 492 ft/150 m of tubulars

**COMBINATION BUILDING**

275 kW generator (480 v/208 v)  
 2,400 gal/9000 L diesel fuel tank  
 350 psi air compressor (purging coil)  
 Change shack  
 80 gal, 5 station, 8 bottle accumulator with PLC remote

**MUD TANKS**

Swaco Mongoose shaker  
 3 x 2 manifold 3000 psi  
 Mix pump, mixing guns in all tanks, poor boy degasser  
 Trip tank volume: 134 ft<sup>3</sup>/3.8 m<sup>3</sup>/24 bbl  
 Suction tank volume: 403 ft<sup>3</sup>/11.4 m<sup>3</sup>/72 bbl  
 Settling tank volume: 403 ft<sup>3</sup>/11.4 m<sup>3</sup>/72 bbl  
 Shaker tank volume: 532 ft<sup>3</sup>/14.8 m<sup>3</sup>/93 bbl  
 Total active volume: 1,462 ft<sup>3</sup>/41.4 m<sup>3</sup>/260 bbl

**MUD PUMP**

F-800 triplex mud pump with 9" stroke  
 3000 psi piping system with 3" discharge  
 Detroit Diesel engine: Series 2000 or Series 60  
 150 psi air compressor, tool board and parts cabinet

**FLARE TANK**

283 ft<sup>3</sup>/8 m<sup>3</sup>/50 bbl tank  
 Storage on front and back of trailer  
 164 ft/50 m each of 3" flare line and 6" degasser line

**WINTERIZATION**

80 hp boiler  
 1,900 gal/7000 L diesel fuel tank  
 Steam lines and pre-fabs for rig

**TUBULARS**

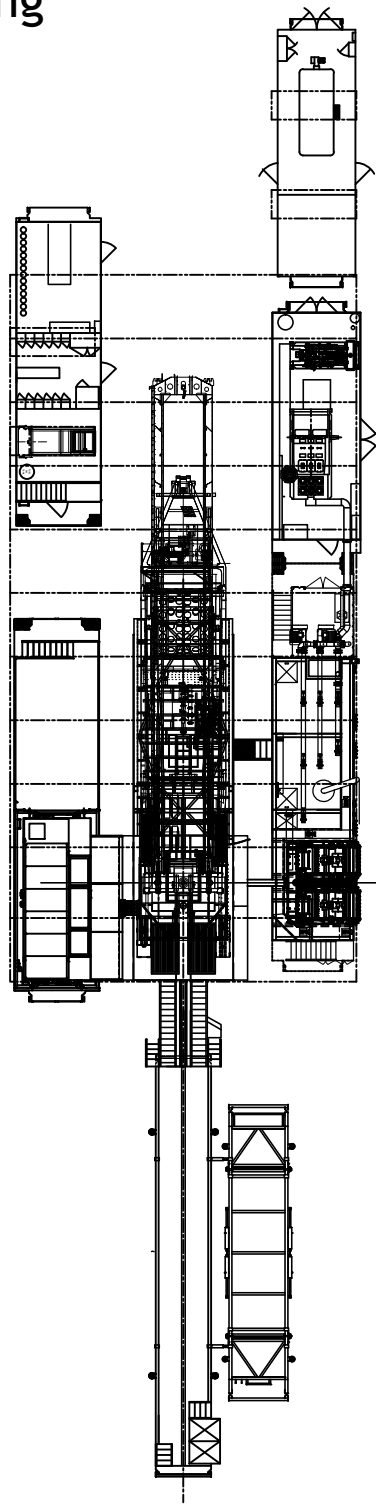
Each rig typically carries 8 x 4 3/4" drill collars and 15 x 3 1/2" drill pipe  
 Rigs can carry up to 3,900 ft/1200 m of range II 3 1/2" drill pipe in hydraulic pipe tubs or on pipe racks  
 Specific rig inventory available upon request

**RIG MANAGER SHACK**

42' shack with parts storage and crew bathroom

**WELL CONTROL**

3000 psi class 3 BOP  
 Size of BOP depends on specific rig inventory



AFE # \_\_\_\_\_

REV#	DATE	DESCRIPTION	CA	CHKD BY	AUTHD BY
△	02/16/11	UPDATED TITLEBLOCK	CAA		

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SCALE:	TITLE: Rig Layout (1500m/4920ft)		
1/8" = 1'-0"	DRAWN BY: NLW	CHKD BY:	AUTHD BY:
TITLEBLOCK:	CLIENT: DRILLING	RIG: 414	DATE: 02/09/09
DWG #:	SV101L414LD		REV # 1