



RIG 445 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 ($\frac{7}{8}$ " 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 ($2\frac{7}{8}$ " or $3\frac{1}{2}$ " tubing capability depending on rig)
Storage reel capacity: ($2\frac{7}{8}$ "=1350 m and $3\frac{1}{2}$ "=1200 m)
Rotary table with $13\frac{7}{8}$ " opening, 1600 ft/lbs torque, 44 550 daN

DOGHOUSE

Water tank volume: 1,400 ft³/40 m³/252 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 ft³/3.8 m³/24 bbl
Suction tank volume: 403 ft³/11.4 m³/72 bbl
Settling tank volume: 403 ft³/11.4 m³/72 bbl
Shaker tank volume: 532 ft³/14.8 m³/93 bbl
Total active volume: 1,462 ft³/41.4 m³/260 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 ft³/8 m³/50 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

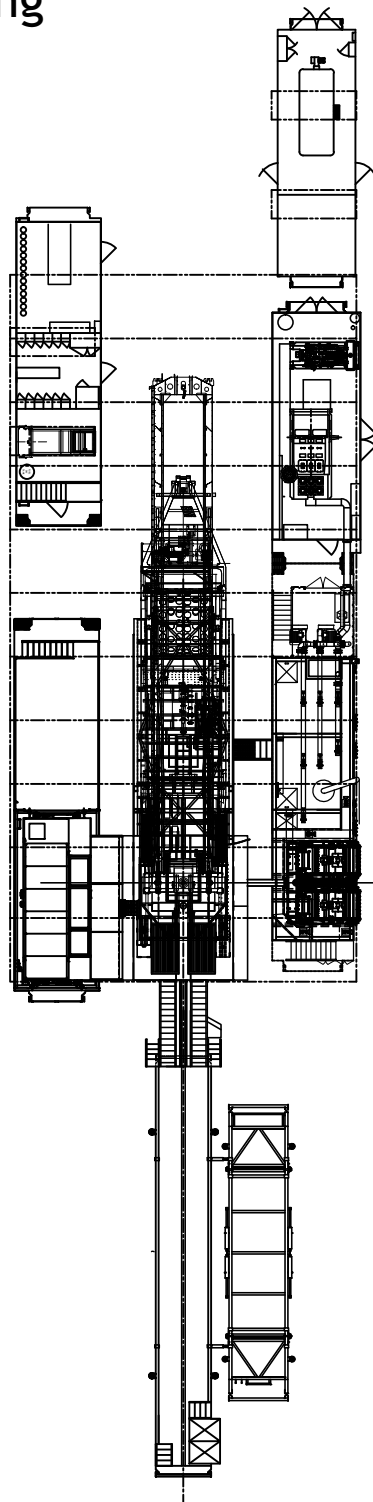
Each rig typically carries 8 x $4\frac{3}{4}$ " drill collars and 15 x $3\frac{1}{2}$ " drill pipe
Rigs can carry up to 3,900 ft/1200 m of range II $3\frac{1}{2}$ " drill pipe in hydraulic pipe tubs or on pipe racks
Specific rig inventory available upon request

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	AUTHD
			BY	BY	BY
△	02/16/11	UPDATED TITLEBLOCK	CAA		

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SCALE:	TITLE:	Rig Layout (1500m/4920ft)			
$\frac{1}{8}" = 1'-0"$	DRAWN BY:	NLM	CHKD BY:	AUTHD BY:	
TITLEBLOCK:	CLIENT:	DRILLING	RIG:	445	
T96	DATE:	02/09/09	REV #:	1	
	DWG #:	SV101L445LO			