



MUD PUMP SPECIFICATIONS

RIG TWELVE

PUMP ONE

MAKE & MODEL	JB1 F1300, Triplex
MUD PUMP POWER	Catepillar C32, Rated @ 970kW (1,300 hp) Continuous Power @ 2,000 rpm
STROKE LENGTH	254 mm (10")
MAXIMUM PUMP SPEED (strokes/min)	150
MINIMUM PUMP SPEED (strokes/min)	25
OPTIMUM LINER SIZE	152 mm (6")

LINER SIZE		VOLUME / STROKE @ 100% EFFICIENCY		MANUFACTURER'S PRESSURE RATING (100%)		MAXIMUM ALLOWABLE WORKING PRESSURE RATING (80%)*		VOLUME @ 140 strokes/min	
mm	Inches	L/stroke	gal/stroke	kPa	psi	kPa	psi	m/min	gal/min
114	4.5	7.82	2.07	39,500	5,722	31,600	4,577	1.09	289
127	5	9.64	2.55	37,670	5,464	30,136	4,371	1.35	357
140	5.5	11.69	3.09	31,140	4,471	24,912	3,576	1.64	432
152	6	13.88	3.67	26,140	3,791	20,912	3,032	1.94	513
165	6.5	16.33	4.31	22,240	3,225	17,792	2,580	2.29	604

PUMP TWO

MAKE & MODEL	JB1 F1000, Triplex
MUD PUMP POWER	Detroit Diesel Series 2000, Rated @ 800kW (1,070 hp) Continuous Power @ 2,000 rpm
STROKE LENGTH	254 mm (10")
MAXIMUM PUMP SPEED (strokes/min)	150
MINIMUM PUMP SPEED (strokes/min)	25
OPTIMUM LINER SIZE	152 mm (6")

LINER SIZE		VOLUME / STROKE @ 100% EFFICIENCY		MANUFACTURER'S PRESSURE RATING (100%)		MAXIMUM ALLOWABLE WORKING PRESSURE RATING (80%)*		VOLUME @ 140 strokes/min	
mm	Inches	L/stroke	gal/stroke	kPa	psi	kPa	psi	m/min	gal/min
114	4.5	7.82	2.07	36,812	5,339	29,450	4,271	1.09	289
127	5	9.64	2.55	29,855	4,330	23,884	3,464	1.35	357
140	5.5	11.69	3.09	24,650	3,575	19,720	2,860	1.64	432
152	6	13.88	3.67	20,753	3,010	16,602	2,408	1.94	513
165	6.5	16.33	4.31	17,637	2,558	14,110	2,056	2.29	604

*Excalibur Drilling Ltd.'s policy is to have a maximum allowable working pressure at 80% of the manufacturer's pressure rating.

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WELL CONTROL SCHEMATICS