

MUD PUMP SPECIFICATIONS

RIG TWO

PUMP ONE

MAKE & MODEL	JB1 F1000, Triplex
MUD PUMP POWER	Detroit Diesel Series 2000, Rated @ 800kW (1,070hp), Continuous Power @ 2,000rpm
STROKE LENGTH	254 mm (10")
MAXIMUM PUMP SPEED (strokes/min)	150
MINIMUM PUMP SPEED (strokes/min)	25
OPTIMUM LINER SIZE	140 mm (5.5")

LINER SIZE		VOLUME / STROKE @ 100% EFFICIENCY		MANUFACTURER'S PRESSURE RATING (100%)		MAXIMUM ALLOWABLE WORKING PRESSURE RATING (80%)*		VOLUME @ 140 strokes/min	
mm	inches	m ³ /min	gal/stroke	kPa	psi	kPa	psi	m ³ /min	gal/min
114	4.5	0.00784	2.07	36,812	5,339	29,450	4,271	1.09	289
127	5	0.00965	2.55	29,855	4,330	23,884	3,464	1.35	357
140	5.5	0.01170	3.09	24,650	3,575	19,720	2,860	1.64	432
152	6	0.01389	3.67	20,753	3,010	16,602	2,408	1.94	513
165	6.5	0.01631	4.31	17,637	2,558	14,110	2,056	2.29	604

PUMP TWO

MAKE & MODEL	JB1 F800, Triplex
MUD PUMP POWER	Detroit Diesel Series 60, Rated @ 470kW (630hp), Continuous Power @ 2,000rpm
STROKE LENGTH	229 mm (9")
MAXIMUM PUMP SPEED (strokes/min)	150
MINIMUM PUMP SPEED (strokes/min)	25
OPTIMUM LINER SIZE	140 mm (5.5")

LINER SIZE		VOLUME / STROKE @ 100% EFFICIENCY		MANUFACTURER'S PRESSURE RATING (100%)		MAXIMUM ALLOWABLE WORKING PRESSURE RATING (80%)*		VOLUME @ 140 strokes/min	
mm	inches	m ³ /min	gal/stroke	kPa	psi	kPa	psi	m ³ /min	gal/min
114	4.5	0.00704	1.86	30,440	4,415	24,352	3,532	0.99	260
127	5	0.00871	2.30	24,750	3,590	19,800	2,872	1.22	322
140	5.5	0.01051	2.78	20,400	2,959	16,350	2,371	1.47	388
152	6	0.01250	3.30	17,200	2,495	13,700	1,987	1.75	462
165	6.5	0.01469	3.88	14,620	2,120	11,700	1,697	2.06	544

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

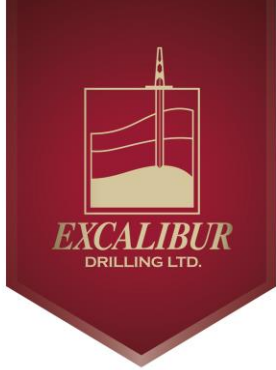
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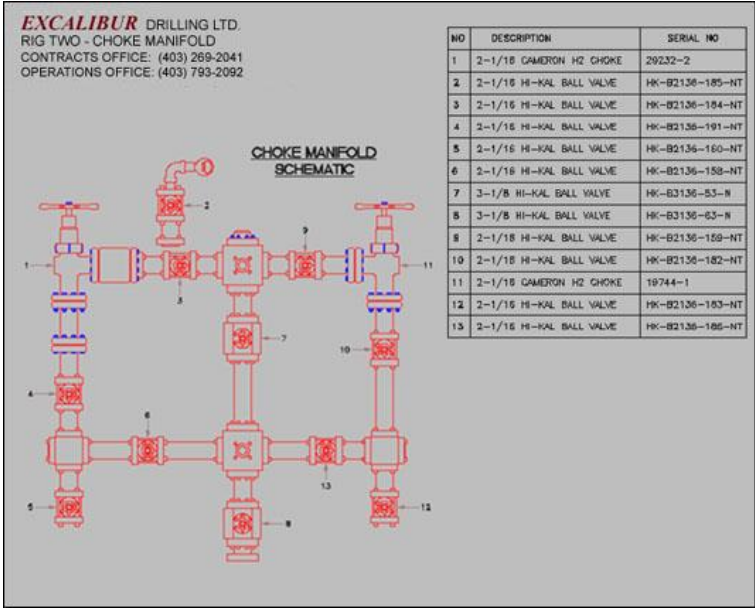
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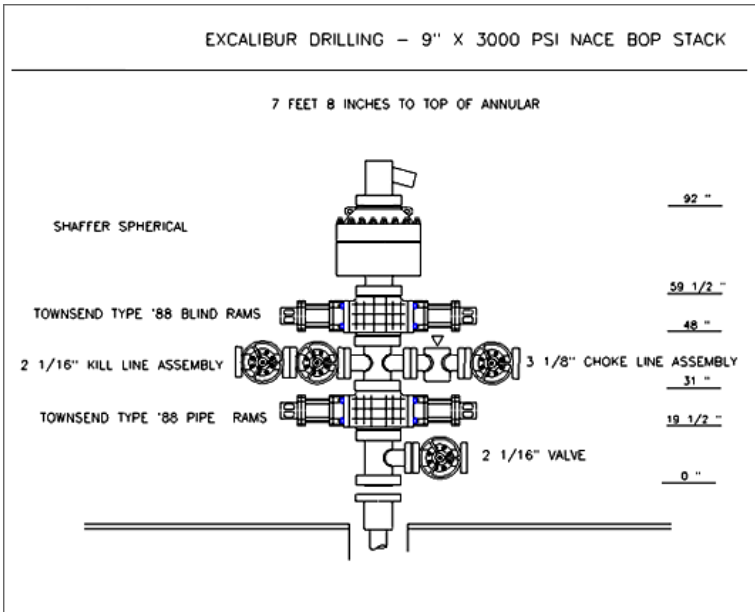
WELL CONTROL SCHEMATICS

RIG TWO

CHOKE MANIFOLD SCHEMATIC



BOP STACK SCHEMATIC



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