DIMENSION BID
CASED HOLE SERVICES DIVISION

UPDATED	5-DEC-2020

PERFORATING GUN - HOLLOW STEEL CARRIER (HSC) GUN SYSTEM : SHAPED CHARGE COMPARISON

MAKE	HUNTING Titan	DYNAenergetics	HUNTING Titan	DYNAenergetics			DYNAenergetics	HUNTING Titan	DYNAenergetics		HUNTING Titan
GUN SYSTEM	1-9/16"		2.00"		2-1/2"	2-78"			3-3/8"		
AVAILIBILITY IN DB											
GUN OD, in	1.56		2.00		2.50	2.88			3.38		
GUN TYPE	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED
GUN PHASING, °	60	60	60	60	60	60	60	60	60	60	60
GUN SHOT DENSITY, SPM	20	20	20	20	20	20	20	20	20	20	20
GUN ENVIRONMENT	FLUID ONLY	DRY & FLUID	DRY & FLUID	DRY & FLUID	DRY & FLUID	DRY & FLUID	DRY & FLUID	DRY & FLUID	DRY & FLUID	FLUID ONLY	DRY & FLUID
GUN PRESSURE RATING, psi	20, 000	25, 000	20, 000	20, 000	20, 000	26, 000	26, 000	25, 000	20, 000	20, 000	20, 000
GUN TEMPERATURE RATING, degC/hr	260	230	260	230	230	205	205	205	205	205	205
GUN TENSILE STRENGTH, lbs	80, 000	63, 846	135, 000	77, 000	120, 000	310, 000	310, 000	245, 000	450, 000	450, 000	270, 000
MAX GUN SWELL IN DRY ENVIRONMENT, in	NOT RECOMMENDED	1.79	2.22	2.25	2.83	3.18	3.18	3.08	3.66	NOT RECOMMENDED	3.68
MAX GUN SWELL IN FLUID ENVIRONMENT, in	1.67	1.73	2.18	2.20	2.76	3.07	3.07	3.14	3.56	3.56	3.58
SHAPED CHARGE TYPE	SDP	SDP	SDP	SDP	DP	DP	SDP	SDP	SDP	SDP	SDP
SHAPED CHARGE PART NUMBER	RTG-1604-421T	2329863	RTG-2107-421T	2328866	2323271	2313286	2327049	EXP-2818-421T	2323274	2327050	EXP-3326-421T
SHAPED CHARGE COMMERCIAL NAME	PerfECTA	DP3	PerfECTA	DP3	DP	DP	DP3	PerfECTA	DP2	DP3	PerfECTA
SHAPED CHARGE EXPLOSIVE WEIGHT, g	3.5	3.6	7.0	6.5	11	15	15	16	23	25	26
SHAPED CHARGE EXPLOSIVE TYPE	RDX	HMX	HMX	HMX	HMX	HMX	STEEL	HMX	HMX	HMX	HMX
SHAPED CHARGE CASE MATERIAL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL
SHAPED CHARGE ENTRANCE HOLE DIAMETER (EHD), in	0.20	0.20	0.29	0.27	0.30	0.32	0.33	0.41	0.40	0.40	0.41
SHAPED CHARGE TOTAL TARGET PENETRATION (TTP), in	12.68	14.43	26.07	27.20	27.40	32.50	41.20	36.22	43.30	56.5	50.05
TEST PARAMETER - TUBING/CASING OD	2-3/8"	2-3/8"	2-7/8"	2-7/8"	3.5	4.5	4.5	4.5	4.5	5.5	4.5
TEST PARAMETER - TARGET STRENGTH	6980	5390	7650	7460	6425	5883	5980	7920	6188	5890	7835
TEST PARAMETER - SOURCE	API 19B	API 19B	API 19B	API 19B	API 19B	API 19B	API 19B	API 19B	API 19B	API 19B	API 19B