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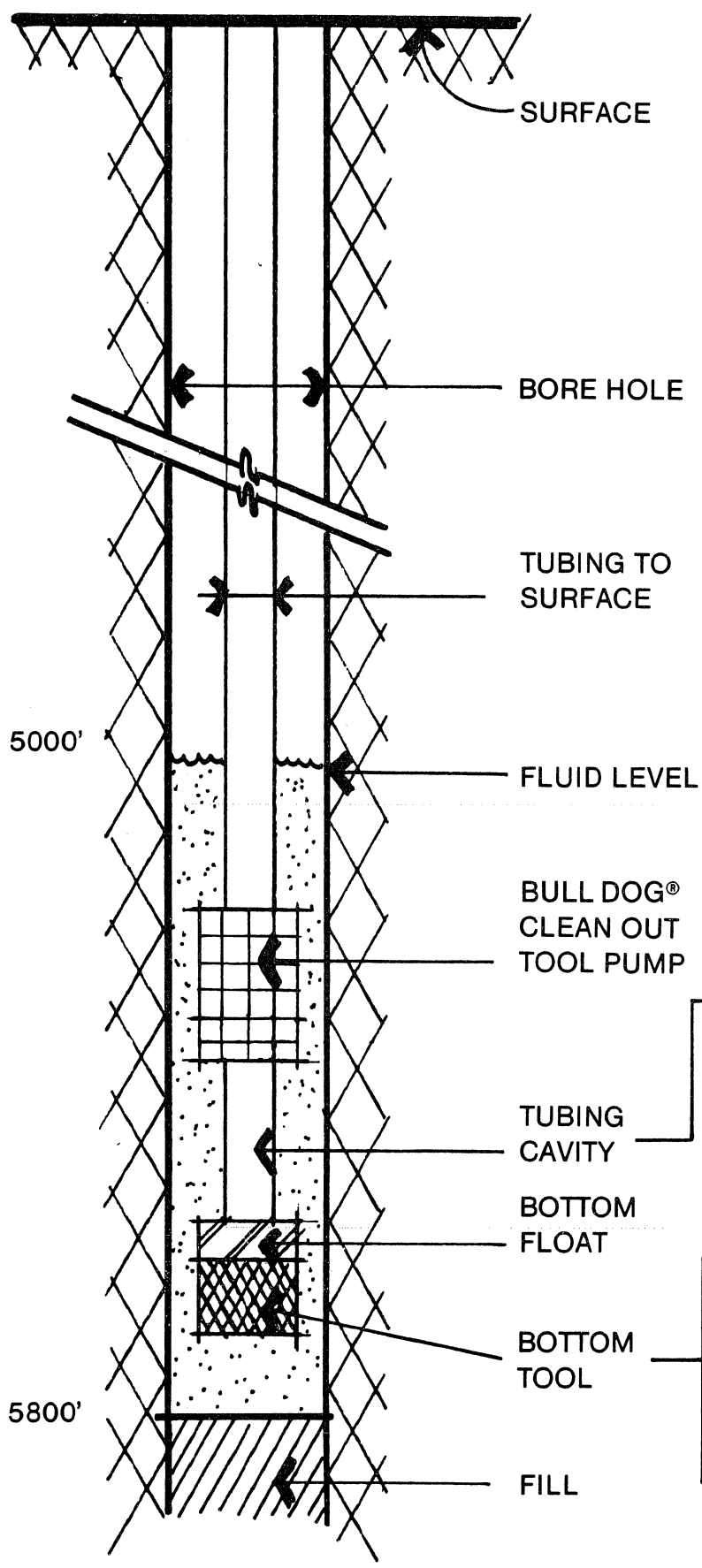


BULL DOG[®] BAILER

U.S. PATENT # 4,493,383
CANADIAN PATENT # 1,208,543

BULL DOG® BAILER

**BULL DOG® BAILER
CLEAN OUT TOOL
ASSEMBLY AS
RUN IN HOLE**



LENGTH OF TUBING CAVITY TO BE DETERMINED BY FLUID LEVEL IN BORE HOLE.

CAN BE VARIOUS TOOLS: BIT; CUTRITE SHOE; OVERSHOT, & ON/OFF TOOL; OR ANY OTHER TOOL THAT IS NEEDED

BULL DOG® BAILER

The Bull Dog® Bailer offers a method to clean out sand and debris from the wellbore or casing without loading the hole and circulating.

The Bull Dog® Bailer is run on tubing or drill pipe. The tool assembly consists of a float valve run on top of your desired bottom hole tool and pump assembly run above the float, in accordance with the fluid level. Reciprocation (5' stroke) of the pump assembly draws fluid and sand in through the bottom hole tool, through the float valve, and up into the tubing chamber. The sand and debris collects in the tubing chamber above the float valve; while the fluid goes through the pump assembly and is discharged to the annulus.

The pump rod is hexagonal to permit normal rotation of the entire tubing string. The size and weight of the tubing used between the float valve and the pump assembly to form the chamber may be varied to apply to existing hole conditions and desired operations.

All principal parts of the Bull Dog® Bailer are manufactured from high-strength, heat-treated, alloy steel.

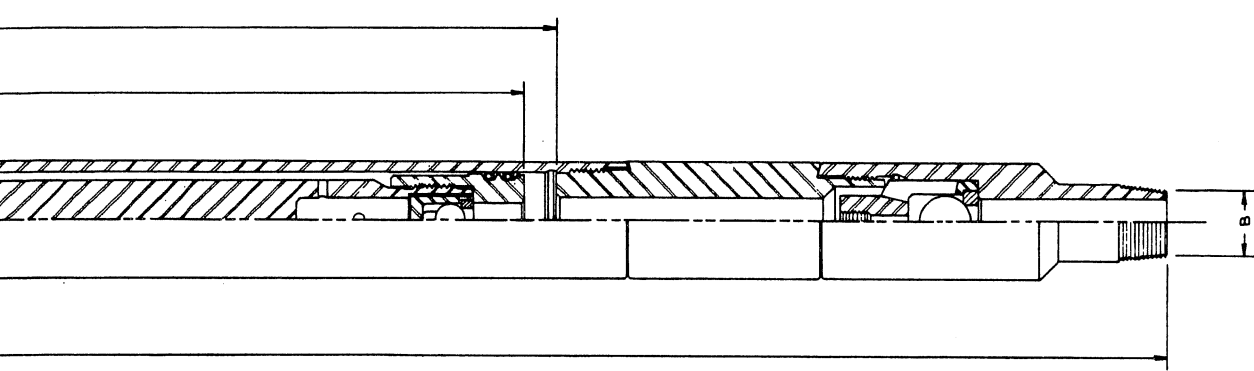
The bottom hole tool run with the Bull Dog® Bailer is dependent on the particular operation desired. A bit, rotary shoe, cutrite shoe, overshot retrieving tool, etc., may be run to meet the needs of your job. The Bull Dog® Bailer is applicable to clean out sand, recover ball sealers, retrieve bridge plugs and packers, clean out caved open holes, fish, drill deeper, etc.

The Bull Dog® Bailer should be considered under the following conditions:

1. Well cannot be circulated.
2. Loading hole with fluid is undesirable or detrimental to pay.
3. Clean out is more economical than rigging up to circulate hole.

The Bull Dog® Bailer is available through your local fishing tool or packer service operators.

*U.S. Patent No. 4,493,383
Canadian Patent No. 1,208,543*



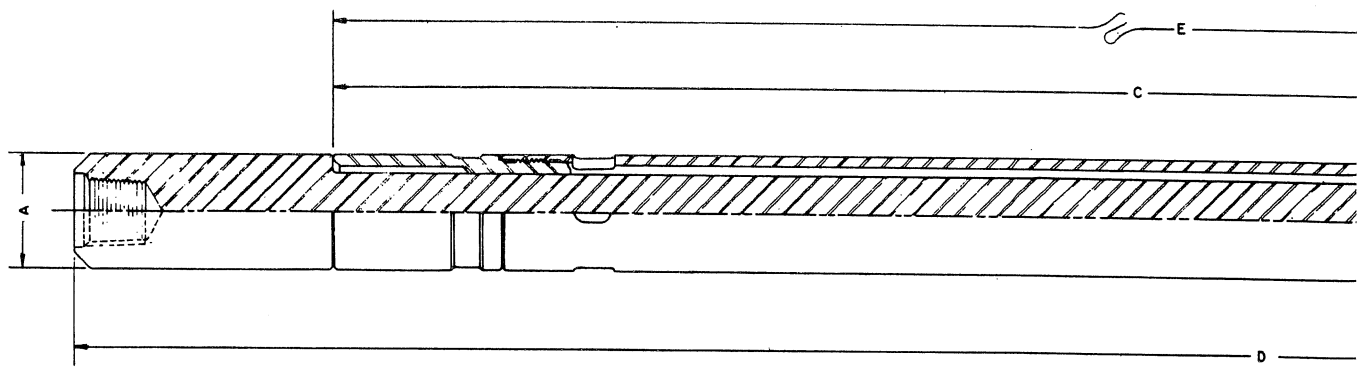
BAILER

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Canadian Patent No. 1,208,543

FLOAT SUB

TENSIL STRENGTH AND TORQUE TO BE
 SAME AS BULL DOG® BAILER

O.D.	I.D.	LENGTH
1.883"	5/8"	1.74'
2 1/4"	1 1/8"	1.75'
3 1/8"	1 1/4"	1.80'
3 3/4"	1 1/2"	1.80'
4 5/8"	2 3/16"	1.80'
6 1/2"	2 3/4"	2.25'



SPECIFICATIONS

BULL DOG®

DIMENSIONS

A	B	C	D	E		
SIZE	CONN SIZE	LENGTH OF STROKE	LENGTH OF TOOL	TORQUE RATING	TENSIL STRENGTH	Displacement (Gal Per Stroke)
1.883" FOR 2 ³ / ₈ " TUBING	1 ¹³ / ₁₆ " W.F.J.	4'	7.65'	1440 FT. LBS.	80,250	.22
2 ¹ / ₄ " O.D. FOR 2 ⁷ / ₈ " CASING	1 ¹ / ₂ " 10 RD NON-UPSET	4'	7.87'	2,760 FT. LBS.	132,000	.3
3 ¹ / ₈ " O.D. FOR 4 ¹ / ₂ " CASING	2 ³ / ₈ " EUE 8 RD	5'	9.35'	8,600 FT. LBS.	166,500	1.4
3 ³ / ₄ " O.D. FOR 5 ¹ / ₂ " CASING	2 ⁷ / ₈ " EUE 8 RD	5'	9.35'	12,470 FT. LBS.	288,000	2.0
4 ⁵ / ₈ " O.D. FOR 7" CASING	2 ⁷ / ₈ " EUE 8 RD	5'	9.60'	30,000 FT. LBS.	476,700	3.1
6 ¹ / ₂ " O.D. "JUNK SUCKER® "	4 ¹ / ₂ " FH	8'	13.5'	69,341 FT. LBS.	544,800	11.0
3 ¹ / ₈ " O.D. "MULTIPLIER® "	2 ³ / ₈ " EUE 8 RD	15'	21.30'	8,600 FT. LBS.	166,500	4.2
3 ³ / ₄ " O.D. "MULTIPLIER® "	2 ⁷ / ₈ " EUE 8 RD	15'	21.30'	12,470 FT. LBS.	288,000	6.0
4 ⁵ / ₈ " O.D. "MULTIPLIER® "	2 ⁷ / ₈ " EUE 8 RD	15'	21.50'	30,000 FT. LBS.	476,700	9.3

TUBING & DRILL CAVITY CAPACITY TABLES

FEET FILL	CUBIC FEET	2 3/8" TUBING	2 7/8" TUBING	3 1/2" TUBING
10'	0.87	40'	26'	17'
20'	1.75	80'	53'	35'
30'	2.62	120'	80'	53'
40'	3.49	160'	107'	71'
50'	4.37	201'	134'	89'
100'	8.73	402'	268'	178'
200'	17.46	804'	537'	357'
300'	26.19	1206'	805'	536'
400'	34.92	1608'	1074'	715'
500'	43.65	2010'	1343'	894'
4 1/2" - 11.60# CASING				
10'	1.31	60'	40'	26'
20'	2.61	120'	80'	53'
30'	3.92	180'	120'	80'
40'	5.22	240'	160'	106'
50'	6.53	300'	200'	133'
100'	13.05	601'	401'	267'
200'	26.10	1202'	803'	534'
300'	39.15	1803'	1204'	801'
400'	52.20	2404'	1606'	1069'
500'	65.25	3005'	2007'	1336'
5 1/2" - 17.00# CASING				
10'	2.15	99'	66'	44'
20'	4.30	198'	132'	88'
30'	6.44	296'	198'	131'
40'	8.59	395'	264'	175'
50'	10.74	494'	330'	219'
100'	21.48	989'	660'	439'
200'	42.96	1979'	1321'	879'
300'	64.44	2968'	1982'	1319'
400'	85.92	3958'	2643'	1759'
500'	107.40	4947'	3304'	2199'
7" - 26.00# CASING				

BULL DOG® BAILER SIZE

Chart reads weight required below Bull Dog® Bailer for maximum efficiency

FLUID LEVEL	1.883" O.D.	2 1/4" O.D.	3 1/8" O.D.	3 3/4" O.D.	4 1/2" O.D.
	lbs.	lbs.	lbs.	lbs.	lbs.
100'	78	116	262	359	573
200'	155	233	525	718	1146
300'	233	348	787	1078	1719
400'	311	464	1050	1437	2292
500'	390	580	1310	1795	2865
750'	586	870	1965	2692	4297
1000'	780	1160	2620	3590	5730
1250'	978	1457	3275	4487	7162
1500'	1170	1740	3930	5385	8595
2000'	1560	2320	5240	7180	11460
3000'	2340	3480	7860	10770	17190