



PRODUCT INDEX

Casing Clean Up Tools

DESCRIPTION

Casing
Scraper
Junk
Basket
Junk Sub



CASING CLEAN UP TOOLS

MODEL "BC" CASING SCRAPERS

Product No. BI 620-03

DESCRIPTION

Casing Scraper is used to remove mud or cement sheath, imbedded bullets, perforation burrs, rust, mill scale, paraffin and similar substances from the inside walls of the casing.

The importance of keeping this vital "working surface" clean and smooth is because all subsequent operations in the well are affected in one way or another by the condition of the casing ID. An imbedded bullet or sharp burr can damage a swab cup or packing element; less-than-full calculated inside diameter can be responsible for premature set of close-tolerance tools; and hardened rotary mud or a thin cement sheath left after drilling out following a cement job may prevent the slips of a pack-off tool from engaging the wall of the casing

FEATURES/ADVANTAGES

Rugged Construction. The body of the Scraper is machined from solid bar stock, and blade blocks are of case hardened steel for absolute maximum ruggedness and strength.

Rotating or Reciprocal Action. The Casing Scraper operates successfully either when rotated or reciprocated vertically on Drill Pipe or Tubing. It can also be run on cable-tool drilling line with jars and sinkers when ordered with a cable-tool joint pin up.

Cannot "Screw" Down During Rotation. The angle and direction of shear of the scraping edges of the blades are such that the Scraper cannot "screw" down past burrs as it rotates.

OPERATION

For removal of cement sheath, the Scraper should be installed between the drill bit and the drill collar so that both the drilling-out and the sheath removal can be accomplished at the same time. It is good practice to maintain circulation while these operations are being conducted. The Scraper should be run completely through the perforated section without rotation, then pull back up and make a rotary run through the section. Casing Scrapers can be operated without rotary equipment by simply running completely through again. If the perforation density is relatively high, it is a good policy to rotate the tubing a quarter of a turn with tongs

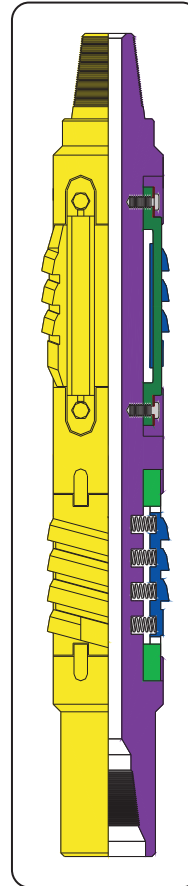
A Junk Basket is some time run above the Casing Scraper. If the mud pumps do not have the capacity to maintain the necessary circulation, the Basket may be mounted below the Scraper.

MODEL "B" JUNK BASKET

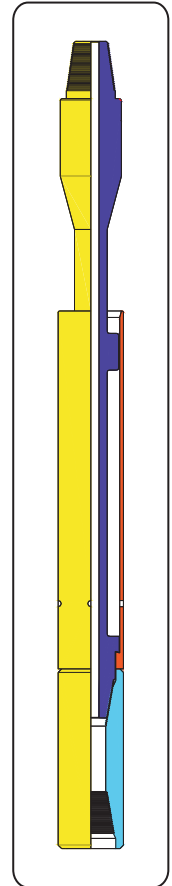
Product No. BI 428-02

DESCRIPTION

The Model "B" Junk Basket aids in the removal of cuttings from the hole when drilling or milling drillable or non-drillable materials. The basket is positioned just above the bit or Milling Tool in the Drilling String. It consists of a Drill Collar, a Cylinder and a Drill Collar Sub. This forms a basket for trapping the metal cutting. The effectiveness of the unit lies in the reduction of circulation fluid velocity upon reaching the upper portion of the Cylinder, which allows metal cutting to drop into the basket.



Product No. BI 620-03



Product No. BI 428-02

CASING SCRAPERS SPECIFICATION GUIDE

Tubing or Casing wt. in lbs.		Scraper size	Blade Block size	Range of Casing I.D. in which Scraper may be run		Thd. Specs. * Pin Up Box Down	Circulating Hole I.D.
O.D	T & C			Min	Max.		
5-1/2	15.5-23	12	12-A	4.545	4.950	2-7/8 API Reg. TJ	1-1/8
5-1/2	13-14	12	12-B	4.887	5.240	2-7/8 API Reg. TJ	1-1/8
7	35-38	14	14-A	5.550	6.065	3-1/2 API Reg. TJ	1-1/4
7	17-32	14	14-B	5.969	6.538	3-1/2 API Reg. TJ	1-1/4
9-5/8	43.5-53.5	16	16-AB-1	8.379	8.755	4-1/2 API Reg. TJ	2
9-5/8	29.3-47	16	16-B	8.525	9.063	4-1/2 API Reg. TJ	2

* Thds. shown are standard, others can be furnished on special order only.

JUNK SUB

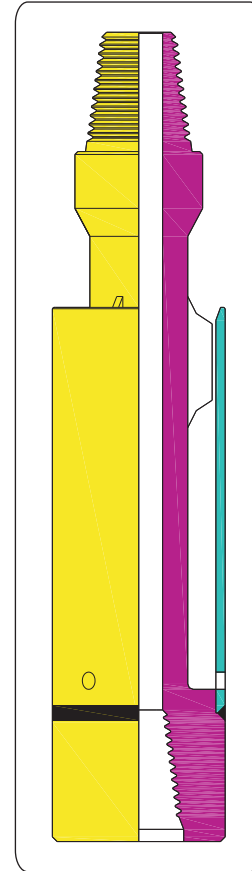
Product No. BI 428-03

DESCRIPTION & APPLICATION :

Junk Sub, which is normally run just above the drill bit, has a cup for catching object too heavy to be completely circulated out of the hole. This is particularly advantageous in junk milling operations.

By running a Junk Sub above a Scraper, operators can get quicker, cleaner scraping jobs.

Junk Sub is constructed from high quality steel, and features a rib guide which prevents the cup from becoming crushed and helps guide the tool through tight places upon withdrawal from the hole.



SPECIFICATION JUNK SUBS

MODEL SIZE	4 TO 5 5/8	4 5/8 TO 4 7/8	5 1/8 TO 5 7/8	6 TO 6 3/8	6 1/2 TO 7 1/2	7 1/2 TO 8 1/2	8 5/8 TO 9 5/8	9 5/8 TO 11 5/8	11-1/2 TO 13	14 3/4 TO 17 1/2
STD TOP CONNECTION										
A.P.I.REG. TOOL JOINT OIN	2 3/8	2 7/8	3-1/2	3-1/2	3-1/2	4-1/4	4-1/4	6 5/8	5-6/8	7 5/8
O.D.OF BODY (TOP CONNECTION)	3 1/8	3 3/4	4-1/4	4-1/4	4-1/4	5-1/2	5-1/2	7-3/4	7-3/4	8 7/8
O.D.OF BODY (UNDER CUP)	2	2 5/8	3 1/8	3 -1/4	3 1/4	4-1/2	4-1/2	5-3/4	5-3/4	7 5/8
O.D.OF BODY (UNDER CUP)	3 11/16	4	4-1/2	5	5-1/2	6-5/8	7	8 5/8	9 5/8	12 7/8
I.D. OF CUP	3 5/16	3 5/8	4-1/2	4 9/16	4 7/8	5 15/16	6 9/32	7 15/16	8 17/32	11 5/8
DIAMETER OF BORE	3/4	1 1/4	1-1/2	1 1/2	1 1/2	2 1/4	2 1/4	3 1/2	3 1/2	4
LENGTH OF CUP	10	10	10	10	10	10	10	10	10	10
TOTAL LENGTH	29	29 1/2	30 1/2	30 1/2	30 1/2	31 1/2	31 1/2	33	33	36
LENGTH OF CUP	20	20	20	20	20	20	20	20	20	20
TOTAL LENGTH	43 1/2	44	45	45	45	46	46	48	48	50
LENGTH OF CUP	30	30	30	30	30	30	30	30	30	30
TOTAL LENGTH	53 1/2	54	55	55	55	56	56	58	58	60