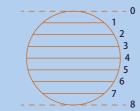
IADC Dull Grading

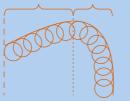
Cutting Structures В G Remarks Under Gauge (1/16) "X" for fixed

- INNER ROWS: For fixed cutter bits, use the inner 2/3 of the bit radius as inner rows.
- OUTER ROWS: For fixed cutter bits, use the outer 1/3 of the bit radius as outer rows.

DEGREES OF CUTTER WEAR



Inner 2/3 Radius Outer 1/3 Radius



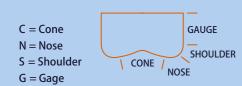
- B DULL CHARACTERISTICS/
- OTHER DULL CHARACTERISTICS
 - BF Bond Failure
 - BT Broken Teeth/Cutters
 - BU Balled Up
 - CR Cored

- CT Chipped Teeth/Cutters
- **DL** Cutter Delamination
- ER Erosion
- FC Flat Crested Wear
- **HC** Heat Checking
- JD Junk Damage
- LM Lost Matrix
- LN Lost Nozzle LT - Lost Teeth/Cutters
- - NR Not Rerunable
 - PN Plugged Nozzle

NO - No Dull Characteristic

- RO Ring Out
- RR Re-runable
- SP Spalled cutters
- WO Washed Out Bit
- WT Worn Teeth/Cutters

LOCATION:



6 GAGE:

ln		In gage	
	1/16″ under gage		5/16″ under gage
	2/16″ under gage		6/16″ under gage
	3/16″ under gage		7/16″ under gage
	4/16″ under gage		

8 REASON PULLED

A = All Areas

- **BHA** Change Bottom Hole Assembly
- CM Condition Mud
- CP Core Point
- DMF Downhole Motor Failure
- DP Drill Plug

- DSF Drill String Failure
- DST Drill Stem Test
- DTF Downhole Tool Failure
- FM Formation Change
- **HP Hole Problems**
- HR Hours on Bit
- LIH Left in Hole LOG - Run Logs
- PP Pump Pressure
- PR Penetration Rate
- RIG Rig Repair
- TD Total Depth / Casing Depth
- TQ Torque
- TW Twist Off
- **WC Weather Conditions**
- WO Washout in Drill String

HSE Statement

Site safety starts here



Site speed limit



No admittance for unauthorised personnel



All staff must report to site office



Heavy machinery operating onsite



Full body, high visibility clothing must be worn



Protective boots must be worn



Safety glasses must be worn



Protective gloves must be worn

As a world class bit company providing service in approximately 14 countries, DEEPBIT number one priority is to offer safe and superior products and services. We promote safety and environmental principles by working together to protect our employees, customers, communities, and the environment from harm.

> Chengdu Deep believes safety is everyone's business. That is why every person at every worldwide DEEPBIT location makes safety awareness the number one priority. Every member of every team is tasked with taking personal ownership of his or her own safety and the safety of others.

> > Our goal is to keep our people (and the environments in which they work) safe and healthy. For this reason, we put policies and procedures in place to make sure that adherence to proper safety practices is a 24/7 commitment on everyone's part.