

TROUBLESHOOTING - “PRINT THIS PAGE”

IF TO MANY ROUNDS GOING INTO REJECTS ... BACK GATE DOWN A BIT

STILL ..TO MANY ROUNDS GOING INTO REJECTS ... SLOW FEED FLOW DOWN

***STILL ..TO MANY ROUNDS GOING INTO REJECTS ... *** TWIST SEED DAMS
OUT A BIT AWAY FROM PIPE - ALL (8) OF THEM***

STILL ..TO MANY ROUNDS GOING INTO REJECTS ... REMOVE ALL (8) SEED DAMS

MIGHT WANT TO CONSIDER A SMALLER DIAMETER CORE — PAGE 2
(ORBIT HEIGHT OF THE REJECT MATERIAL SHOULD DETERMINE DIAMETER OF THE CORE)

MIGHT WANT TO CONSIDER A ** MORE ENERGETIC CORE (See bottom of page)

IF TO MANY REJECTS GOING INTO ROUNDS ... PULL GATE UP A BIT

***STILL .. TO MANY REJECTS GOING INTO ROUNDS ... INCREASE FEED FLOW
“ SLIGHTLY “ (OVERFEEDING = TO MANY ROUNDS IN REJECTS)***

***STILL .. TO MANY REJECTS GOING INTO ROUNDS ... ADD SEED DAMS
NOT FULL ANGLE - ALL (8) OF THEM***

***STILL .. TO MANY REJECTS GOING INTO ROUNDS ... *** APPLY FULL ANGLE
ON - ALL (8) SEED DAMS***

***STILL .. TO MANY REJECTS GOING INTO ROUNDS ... ADD (8) MORE SEED DAMS
“ NOT FULL ANGLE “ — VERTICALLY UNDER — FIRST SET OF 8 DAMS***

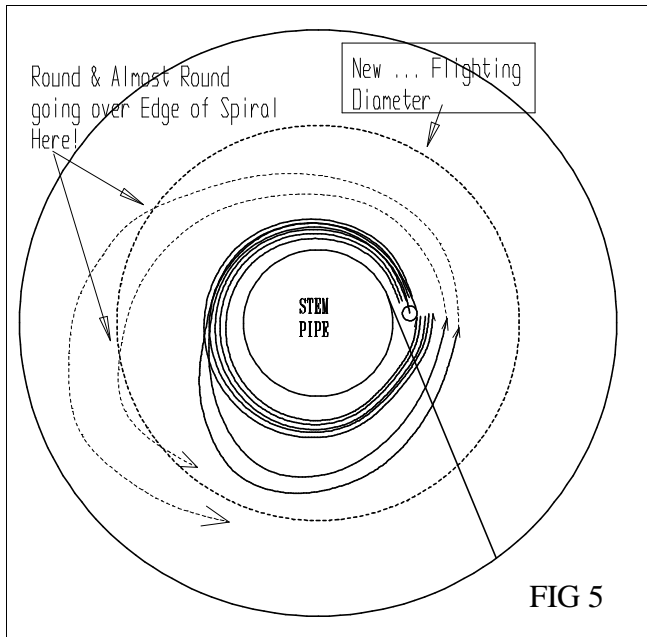
STILL .. TO MANY REJECTS GOING INTO ROUNDS :

- BIGGER DIAMETER CORE CAN HELP IF PRODUCT IS NOT .. TO ENERGETIC -

***“ PRODUCT BEING TO ENERGETIC MEANS IT HAS A ... LARGE ORBIT AROUND THE CENTER STEM PIPE
SUCH AS .. LARGE ROUND SEEDS OR STEEL SHOT WOULD HAVE - IN THIS CASE - A CORE LARGE ENOUGH
TO HAVE A POSITIVE EFFECT COULD EXCEED THE LIMITATION SIZE OF THE CABINET ENCLOSURE “***

**IF DUST & SMALLER REJECT MATERIAL WILL ALLOW “ WITHOUT STOPPING
UP THE CORE MIGHT WANT TO CONSIDER A **LESS ENERGETIC CORE
** LESS ENERGETIC CORE = DECREASED DOWNWARD ANGLE ... THAT THE
SPIRAL IS WRAPPED AROUND THE STEM PIPE
(*Standard variations of Downward Angle is (3) degree increments - See Page 3*)**

****** FULL MAXIMUM ANGLE OF SEED DAMS SHOW ON .. PAGE 4 (Top Picture)
(MAX ANGLE = SEED DAM POINTING TO OUTER EDGE OF PIPE - ON LOWER SIDE)***



Although Very Unrounds
tend to Not keep Gaining
Altitude up the Spiral Flighting.
(Very small unrounds
can't get up enough speed)
In other words ... Dust etc sort
of reaches a Terminal Velocity


The **LENGTH** of the Spiral flighting needs to be enough so all the Rounds have a chance to break free of the Unrounds & Swing Out over the Edge of the *Set Diameter* we have worked out It's a question of Feed Flow Amount

OK - GOING BACK OVER THIS INFORMATION

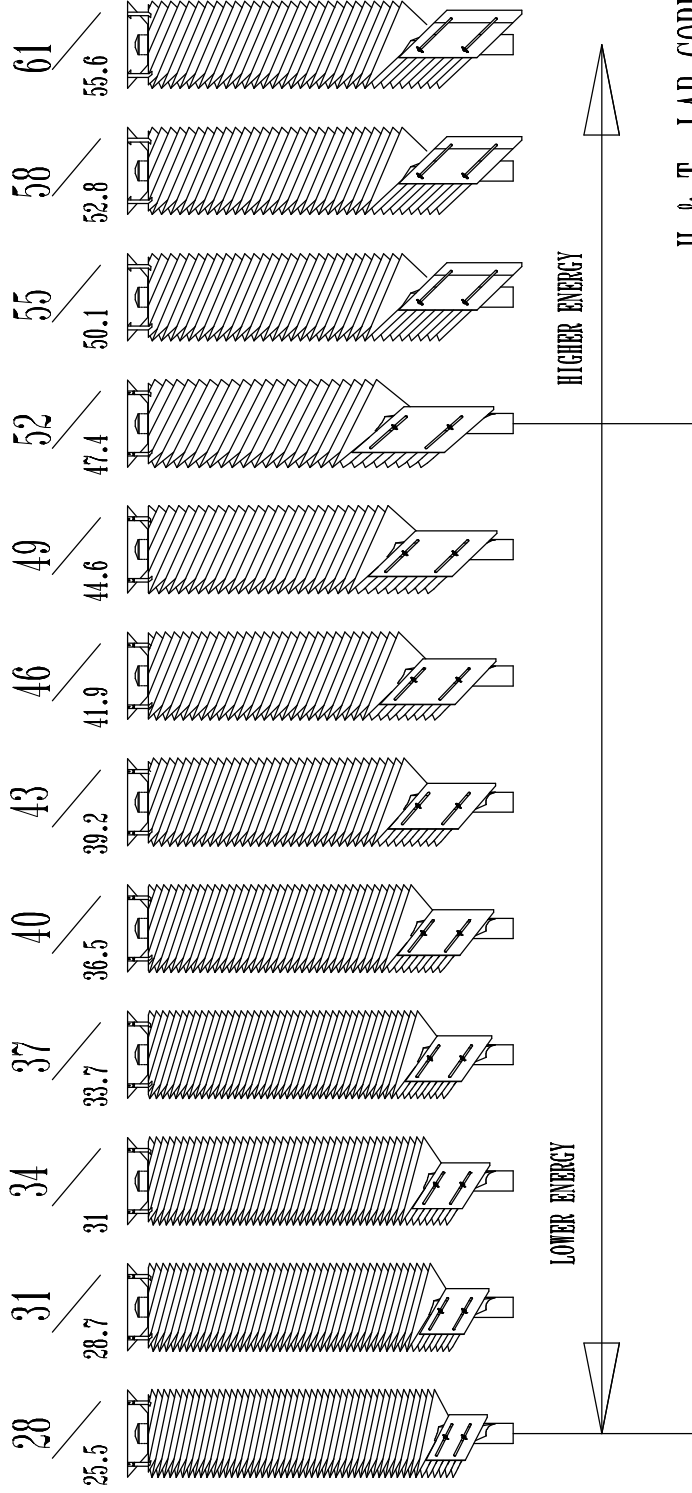
- 1 - Banking Angle - Derivative of Downward Angle as defined going around the Stem Pipe
- 2 - Downward AngleDecreases as diameter gets Larger
- 3 - Feed Flow very Important - Material has to have Separation
- 4 - Diameter of Spiral is determined by Swing out of Rounds
- 5 - Length of spiral flighting is determined - after everything else by Feed Flow Amount

Now on to the Test

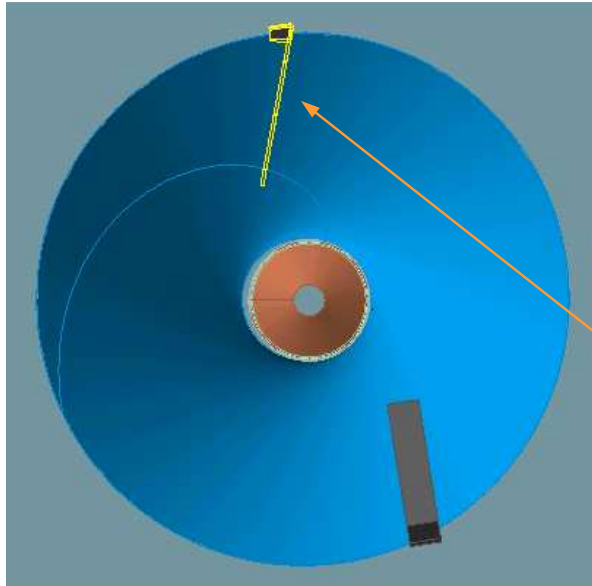
PROFILES OF STANDARDIZED ENCLOSED SPIRAL CORES

TOP Numbers = Downward Angles around the STEM Pipe 

BANKING ANGLES = BOTTOM Numbers - CENTER



H & T LAB CORES



Top down view of the # 1
 “ Blue Flight “ and the
 placement of the 1st
 Magnetic seed dam in
 relation to the
 “ Factory installed “
 — Equalizer —
*Approx 180 degs
 around & down*

The other
 - 7 dams -
 are placed
 vertically
 down from this
 dam

If “More are needed”
 They will go
 directly ... Under
 these dams !

