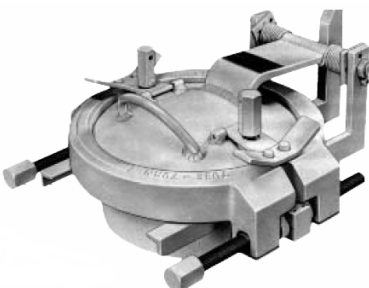
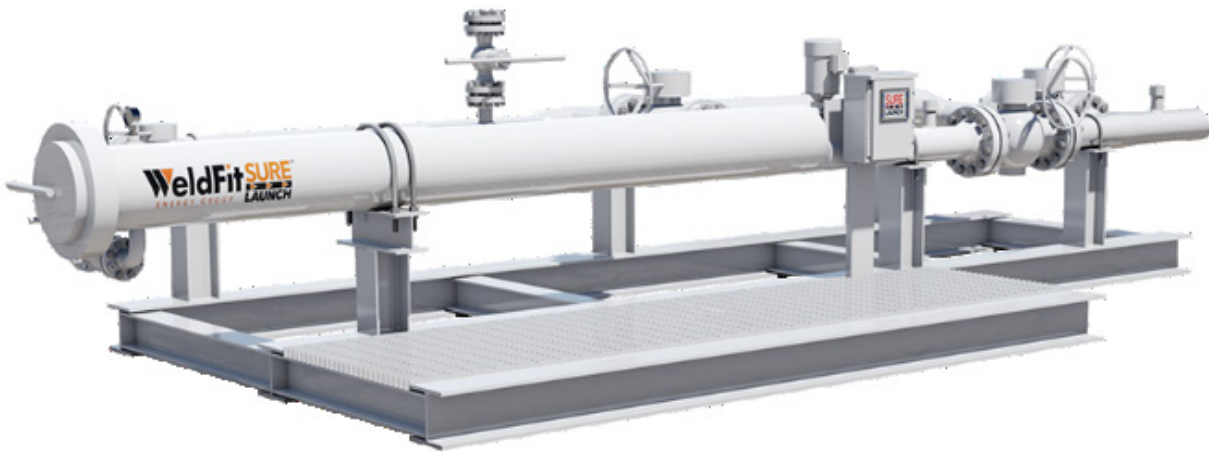


WESTERN PLANT & PIPELINE PRODUCTS



PIPELINE PIGGING PRODUCTS

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FOAM PIGS

FOAM PIGS ARE THE MOST FORGIVING OF THE PIG TYPES. THEY CAN BEND AND FLEX TO MAKE IT THROUGH TIGHT RADIUS BENDS OR THEY CAN BE MADE INTO FOAM DISC PIGS GREAT FOR BATCHING. BY CHANGING THE DENSITY OF THE PIG, WE CAN ACCOMPLISH A NUMBER OF DIFFERENT JOBS FROM BATCHING TO DRYING. CHANGING THE COATING WILL ADD FRICTION SEALING/SCRAPING EDGES TO THE PIPE SURFACE.

WE OFFER A NUMBER OF DIFFERENT FOAM PIGS FROM MULTIPLE VENDORS. IF IT IS ON THE MARKET, WE HAVE IT AVAILABLE FOR SALE. LOOK THOUGH THE VARIOUS OPTIONS WE HAVE FOR FOAM PIGS. IF YOU DON'T SEE SOMETHING, ASK US AND WE WILL FIND IT.

DENSITIES

1 - 2# SOFTEST TYPICALLY USED TO DRY

5 -8# MORE AGGRESSIVE FOR CLEANING

9-10# MOST AGGRESSIVE FOR BATCHING/CLEANING

SOFT CORE TIGHT BENDS AND DUAL DIAMETER

SHAPE OPTIONS



BULLET NOSE



DOUBLE DISH



DBL BULLET

ACCESSORIES



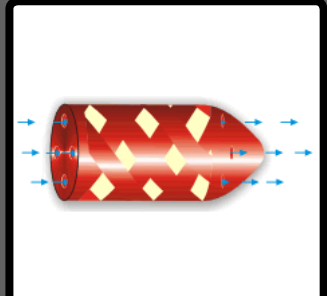
**NOSE
ROPES**



**PIG
TRACKING**



**EXTENDED
LENGTHS**



**BYPASS
PORTS**

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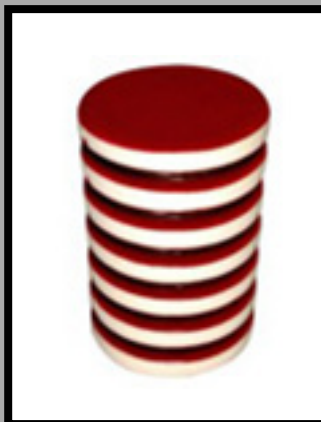
VARIOUS FOAM STYLES



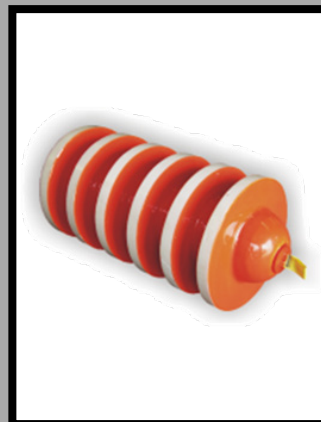
BARE SWAB



CRISS CROSS



FOAM DISC



HAND LAUNCH



CC WIRE BRUSH



SILICONE CARBIDE



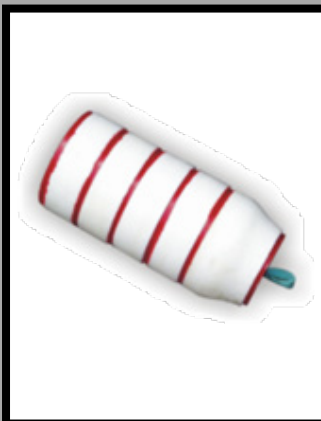
TOTAL WIRE



PLASTIC BRUSH



BLACK BELT



ULTRA SEAL



WHEEL BRUSH

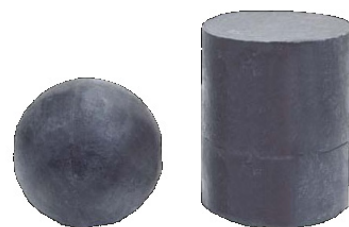


FOAM SPHERES

SOLUBLE PIGS

SOLUBLE PIGS DISAPPEAR IN THE LINE AFTER A FEW HOURS, DEPENDING ON TEMPERATURE, RESTORING FLOW TO THE PIPELINE.

- USED TO PROVE LINES BEFORE PIGGING WITH MORE AGGRESSIVE PIGS
- OIL AND WATER SOLUBLE PIGS AVAILABLE UP TO 12".



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URETHANE PIGS

SOLID CAST URETHANE PIGS ARE MORE AGGRESSIVE THAN FOAM PIGS. THEIR HOLLOW CORE ALLOWS FOR A 20% REDUCTION IN ID. THE REDUCTION IN SIZE ALLOWS THE PIG TO MANEUVER IN TIGHTER RADIUS BENDS THAN A MANDREL PIG. THE CAST URETHANE PIG IS MORE DURABLE THAN A FOAM PIG, BUT THE URETHANE CAN BREAK DOWN IN CERTAIN CHEMICALS.

THERE ARE A NUMBER OF DIFFERENT OPTIONS FOR CAST URETHANE PIGS. WE OFFER DIFFERNT CONFIGURATIONS, DUROMETERS AND LENGTHS TO GET YOUR JOB DONE CORRECTLY. WHEATHER YOU NEED AN OFF THE SHELF PIG OR A COMPLETELY CUSTOMIZABLE CAST URETHANE PIG, WE HAVE YOU COVERED. NEED MORE MILES OUT OF YOUR PIG, NOT A PROBLEM. WE CAN SWITCH TO DIFFERENT TYPES OF URETHANE OR ADD FRICTION REDUCING ADDITIVES WHEN PIGGING DRY NATURAL GAS LINES.

DUROMETERS - SHORE A

60'S

SOFTTEST AND CAN MAKE TIGHT BENDS - GOOD FOR MULTIPLE DIAMETERS

70'S

STANDARD - MAKES MOST BENDS- GOOD FOR CLEANING/SEALING

80'S

VERY STIFF - GOOD FOR CLEANING PIPE WALLS

CUSTOM

- DUROMETER CAN BE SPECIFIED TO ACHIEVE A CERTAIN GOAL**
- THE COLOR OF URETHANE CAN BE CHANGED, PER DUROMETER, FOR EASY RECOGNITION OF PIGS.**

ACCESSORIES



**NOSE
ROPES**



**PIG
TRACKING**



**EXTENDED
LENGTHS**



**HIGH TEMP
/FR ADDITIVE**

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VARIOUS URETHANE STYLES



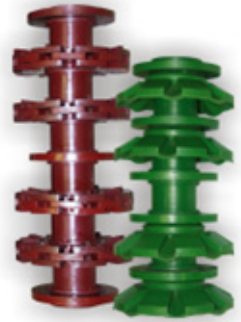
UFCP



UNIFLEX



K DISC



NOVACAST



PROCESS PIG



SUPER CAST



TUFF CAST



OPTIMA CAST



TURBO BRUSH



TUFF CUP



URECAST



SPHERES

TYPES OF URETHANE

MDI

MORE EXPENSIVE BUT MORE DURABLE

TDI

BETTER COMPRESSION AND HANDLES HIGHER TEMPERATURE

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MANDREL PIGS

MANDREL PIGS ARE THE MOST AGGRESIVE PIGS AND THE MOST VERSITILE. THEY HAVE ABILITY TO CHANGE THE PIGS LENGTH AND THE COMPONENTS TO MEET YOUR PIGGING NEEDS. WHEATHER YOU NEED A LONGER PIG TO MAKE IT PAST BRANCH OUTLETS OR YOU NEED TO ADD DISCS AND A GAUGE PLATE FOR A PRE-ILI INSPECTION, THE MANDREL STYLE PIG HAS YOU COVERED.

- INITIAL COSTS ARE HIGHER WHEN FIRST PRUCHASING THE PIG. AFTER A FEW RUNS AND REPLACEMENT PARTS, MANDREL PIGS HAVE A LOWER TOTAL COST OF OWNERSHIP.

WE CAN GET YOU FULL PIGS OR REPLACEMENT COMPONENTS FROM ANY MANUFACTURE. JUST GIVE US YOUR LINE SPECIFICS AND WHAT YOU WANT TO ACCOMPLISH. WE WILL PROVIDE YOU WITH A NUMBER OF OPTIONS TO CHOOSE FROM.

ACCESSORIES



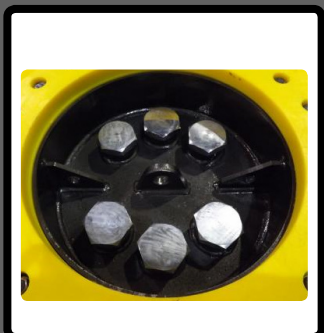
**BUMPER
NOSE**



**PIG
TRACKING**



**GAUGE
PLATES**



**BYPASS
PORTS**

BODIES



STEEL



URETHANE



PLASTIC



ARTICULATED

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MANDREL COMPONENTS



CONICAL



DC CUP

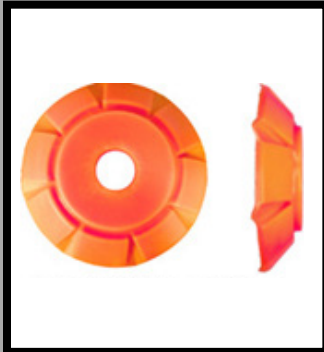


REAL SEAL



SPECIALTY

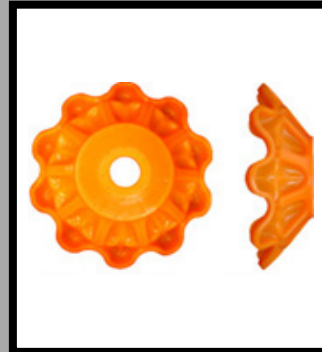
CUPS



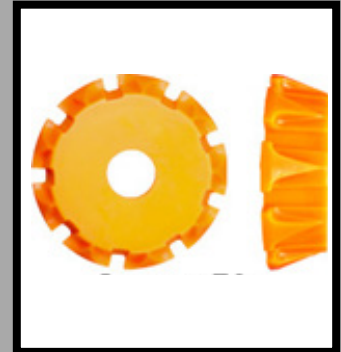
MULTI-SIZE 1



MULTI-SIZE 2



MULTI-SIZE 3



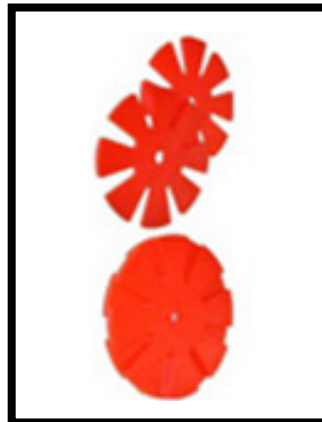
PARAFFIN



SEAL



SCRAPER



SPLIT/SLOTTED



CUTTER

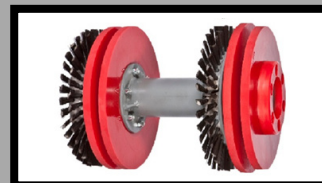
DISCS



RING



SPRING LOADED



PENCIL



BLADES



BLADE OPTIONS



PIT BOSS

BRUSHES / SCRAPERS



CLOSURES

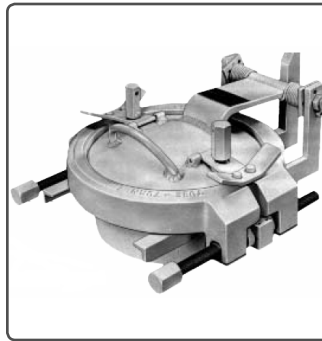
WE OFFER A NUMBER OF DIFFERENT CLOSURES TO FIT YOUR NEEDS. IF YOU NEED A QUICK ACCESS CLOSURE FOR FREQUENT PIGGING OR A LESS EXPENSIVE THREADED CLOSURE FOR INFREQUENT PIGGING WE CAN TAKE CARE OF YOU . WE OFFER STANDARD CLOSURES FROM 150# TO 900# AND HIGHER PRESSURES UPON REQUEST. LET US KNOW WHAT YOU NEED AND WE CAN GET IT COVERED FROM SPECIAL METALS TO THE FINAL CODE STAMP.



THREADED



T-BOLT



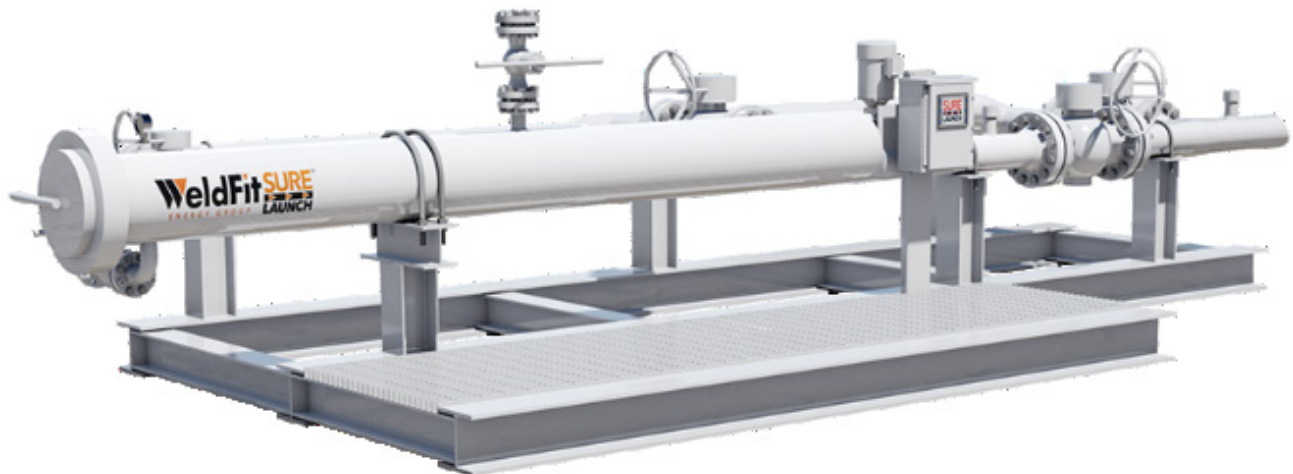
DBOLT



QUICK OPENING

LAUNCHER / RECEIVER

PIG LAUNCHER/RECEIVERS OFFERED ARE A CUSTOM ENGINEERED DESIGN PRODUCTS THAT MEETS CUSTOMER, ENVIRONMENTAL AND INDUSTRY STANDARDS. THE PIG LAUNCHER/ RECEIVER IS BUILT FOR EASE OF OPERATION AND LONGEVITY OF SERVICE. WITH MULTIPLE OPTIONS AVAILABLE, WE WILL SUPPLY THE ULTIMATE DESIGN THAT READILY MEETS YOUR TECHNICAL AND COMMERCIAL REQUIREMENTS.





PIGGING EQUIPMENT

PIGGING POLE

PIGGINGPOLES (STANDARD SET) CONSIST OF THREE SECTIONS PINNED TOGETHER FOR A TOTAL LENGTH OF 18'. ONE END OF THE POLE HAS A FOUR-INCH ROUND RAM, MAKING IT EASY TO SEAT THE PIG, AND THE OTHER END HAS A HOOK FOR EASY PIG RETRIEVAL. OPTIONAL HANDLE MAKES HANDLING THE PIGS EVEN EASIER.

THIS IS THE SAFEST WAY TO RETRIEVE PIGS FROM PIPELINES. RATHER THAN HAVING STEEL HOOKS LIKE SOME POLES, OUR POLES ARE MADE OF ALL ALUMINUM, SO THEY NEVER CREATE SPARKS. THE RAMS, HOOKS, AND POLES ARE ALL ATTACHED USING PINS. THEY CAN BE SEPARATED INTO 6 FOOT LENGTHS FOR EASY TRANSPORTATION.



SAFEWAY PIG LOADER

THE SAFEWAY PIG LOADER USES HYDRAULIC PRESSURE TO PUSH THE PIG INTO ITS REDUCER AND FINALLY INTO THE PIPE. DEPENDING ON THE SIZE OF THE PIG TO BE LAUNCHED, THE SAFEWAY PIG LOADER IS POWERED BY AN ELECTRICAL PLUG OR GAS POWERED MOTOR.





PIG TRACKING

WE OFFER PIG TRACKING RENTALS AND SYSTEM PURCHASES. FROM NON-INTRUSIVE TEMPORARY PIG SIGNALS PICKING UP NEODIDUM MAGNETS TO ELECTROMAGNETIC PIG TRANSMITTERS WITH GOOGLE EARTH LINKED RECEIVER, WE CAN GET YOU THE RIGHT EQUIPMENT FOR YOUR NEXT PIG RUN.

- RENTAL EQUIPMENT SHIPS OUT, OVERNIGHT, THE DAY BEFORE PIGGING. RENTALS ARE PORTAL TO PORTAL WITH A FOUR DAY MINIMUM, CHARGED PER DAY.

MAGNETS

WE OFFER A NUMBER OF DIFFERENT MAGNETS FOR ANY STYLE OF PIG.

THE HIGH STRENGTH MAGNETS ARE USED TO PICK UP DEBRIS IN THE LINE AND/OR FOR TRIPPING A NON-INTRUSIVE PIG SIGNAL.



PIG SWITCHES

NON-INTRUSIVE



INTRUSIVE



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TRANSMITTERS

NO MATTER THE SIZE OF THE PIG, THE PIPELINE BENDS OR THE LENGTH OF THE PIG RUN, WE WILL HAVE A TRANSMITTER TO FIT YOUR NEEDS. ALL TRANSMITTERS CAN BE PICKED UP BY ANY RECEIVER.

- FREQUENCIES CAN BE SET DIFFERENT FOR RUNS WITH MULTIPLE PIGS.

- CHANGING THE PULSE PATTERN CAN SAVE BATTERIES FOR LONGER RUNS.



RECEIVERS



GEOPHONES



LISTEN TO PIPELINE PIGS PASS YOUR LOCATIONS WITH A GEOPHONE. WE OFFER A COUPLE OF DIFFERENT MODELS TO CHOOSE FROM. LISTEN ON YOUR HEADPHONES OR PLUG INTO YOUR TRUCKS STEREO SYSTEM.

- PIG SPEED CAN BE DETERMINED BY TIMING THE WELD JOINT HITS. IF YOUR JOINTS ARE A STANDARD 40' YOU CAN EASILY WORK OUT THE PIGS SPEED.
SPEED = DISTANCE/TIME



EMAIL: SALES@WESTERNPLANT.NE



ORDERING PROCESS

CONTACT US

CALL (925)-413-1988 OR EMAIL SALES@WESTERNPLANT.NET

WE CAN HELP ONE OF THREE WAYS

1

I KNOW WHAT I WANT AND
DELIVERY IS CRITICAL.

2

OPEN TO NEW PIG DESIGNS
TO GET MORE OUT OF MY
RUNS. DELIVERY IS NOT A
HUGE PROBLEM.

3

STARTING TO PIG A LINE
THAT HAS NEVER BEEN
PIGGED BEFORE. WE DON'T
KNOW WHERE TO START.

GIVE US INFORMATION

WE NEED THE PIG SIZE,
TYPE AND THE DAY IT
NEEDS TO BE ONSITE. PART
NUMBERS HELP IF YOU RE-
QUIRE A SPECIFIC VENDOR.

LET US KNOW WHAT YOU ARE
CURRENTLY USING , HOW
OFTEN YOU PIG AND LINE
CONSIDERATIONS.

FILLING OUT THE PIGGING
SYSTEM REVIEW WILL GIVE
US A COMPLETE LOOK AT
YOUR SYSTEM.

WHAT WE DO FOR

WE FIND THE **EXACT** PIG IN
THE TIME REQUIRED. THE
VENDOR WITH THE LOWEST
PRICE GETS THE ORDER.

WE PROVIDE DIFFERENT PIG
OPTIONS THAT WILL HELP
ACHEIVE YOUR PIGGING
GOAL. IF YOU ARE USING
THE BEST OPTION, WE WILL
SHOP AROUND TO SAVE YOU
MONEY.

WE CONTACT MULTIPLE PIG
EXPERTS AND VENDORS TO
GET YOU THE CORRECT PIGS
BASED ON YOUR LINE
PARAMETERS.



WE ARE HERE TO HELP MAKE ORDERING PIGS

EASY AND HASSLE FREE!

YOU CALL US ONCE AND WE WILL CONTACT THE MANUFACTURES TO MEET
YOUR PRICE AND/OR DELIVERY REQUIREMENTS.

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PIGGING FORMS

PIGGING SYSTEM REVIEW

WE RECOMMEND THAT ALL CUSTOMERS FILL THIS OUT ONCE FOR GOOD RECORD KEEPING.

THIS WILL HELP THE WHOLE TEAM UNDERSTAND THE LINE PARAMETERS IN TWO PAGES AND HELP IF YOU NEED A DIFFERENT TYPE OF PIG.

SAVE THE FORM ONCE, TO YOUR COMPUTER, AND NEVER NEED TO FILL THE FORM OUT AGAIN FOR THAT LINE SECTION.

IF YOU NEED US TO RECOMMEND A PIG, NOT A PROBLEM, JUST EMAIL US THE FORM FILLED OUT THE BEST YOU CAN. WE WILL MAKE SURE A FEW MANUFACTURER'S LOOK OVER THE FORM AND PROVIDE THEIR RECOMMENDATIONS. FROM THERE WE CAN WORK ON GETTING YOU SET UP WITH A REGULARLY SCHEDULED PIGGING PROGRAM.

PIG RUN REPORT

YOU CAN MONITOR PRESSURES, TIME AND PARTICULATES RECEIVED TO LOOK FOR CHANGES OR IRREGULARITIES.

A PIGGING LOG BOOK CAN HELP OTHERS SEE WHAT HAS BEEN USED AND WHAT CAUSED TROUBLES IN THE PAST. BY MONITORING THE PIG AND THE RUNS, PIGS CAN BE FINE TUNED TO GET THE MOST OUT OF EACH RUN.

MONITORING THE END OF EACH RUN HELPS SEE WHAT EACH PIG RUN GOT OUT OF THE LINE. YOU CAN DETERMINE YOUR PIGGING FREQUENCY AFTER A FEW RUNS.

BY MONITORING THE PIG BEFORE AND AFTER A RUN, YOU CAN REORDER THE PIG/PIG PARTS QUICKLY TO HAVE READY FOR THE NEXT PIG RUN. THIS HELPS GET YOU THE CORRECT PIG, NOT THE AVAILABLE PIG.

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