The Squiggly Ditch: A Case Study

By Dan Hause Indiana AML

LOG CREEK CHURCH – SITE 900

SOUTH HIGHWALL AREA

REASONS FOR NATURAL LANDFORM RECLAMATION

- Varied landscape for better vegetation success (more species)
- Elimination of rock lined ditches
- More natural looking landscape
- Costs are within +-10% of conventional reclamation
- Software allows for ease of design

CARLSON - NATURAL REGRADE

- The land after mining is no longer influenced by underlying rocks.
- Indiana's thick unconsolidated land had very similar input parameters as NM.
- Input parameters must be gathered from thick unconsolidated in the region.
- Measurements require several days of field time, but this should be a one time event.









CONVENTIONAL RECLAMATION



RECLAMATION COSTS CONVENTIONAL VS NATURAL

BID	CONVENTIONAL	NATURAL	%DIFF
#1	\$245,021.70	\$237,822.20	-3%
#2	\$269,014.00	\$294,668.00	+9%
#3	\$537,000.00	\$417,000.00	-23%
AVG	\$350,345	\$316,497	-10%









LONG TERM QUESTIONS

- Will the completed project be stable long term?
- Will the vegetation be less mono-cultured and more varied?
- Can technology developed for the arid southwest be applied to the wetter areas of the country?

