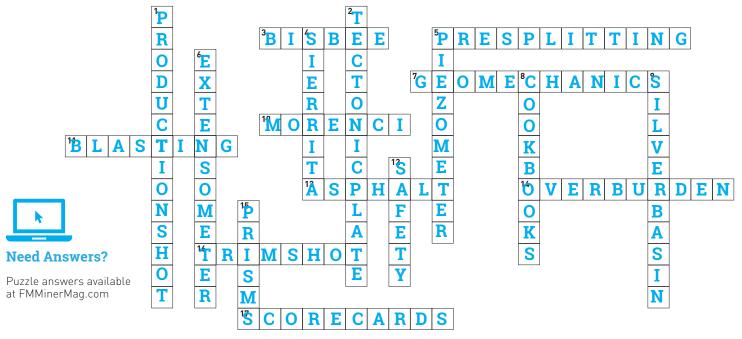
mine your knowledge



ACROSS

- 3. Reclamation efforts at this discontinued operation won the 2018 National Mine Reclamation Award in the Non-Coal category
- Blasting holes just 6 inches in diameter drilled along a desired crest line to induce a break along the holes
- The study of how soils and rocks deform, sometimes to failure, in response to changes of stress, pressure, temperature and other factors
- The mineral system at Lone Star may well be consistent with the company's mine here
- All the company's North American open-pit mines use drones to video these operations
- Rather than clay, this material will make up the core of the reservoir relocated at Morenci operations
- 14. Crews are stripping away 700 feet of this at Safford's Lone Star project
- 16. Smaller, more precise blasts of varying patterns done to sculpt the pit wall
- 17. An extension of the cookbooks developed at mills to evaluate how equipment is operating and how well employees are operating that equipment

DOWN

- 1. The matrix of 50-foot holes blasted to break up the ore that shovels then load into haul trucks
- 2. One of the parts of the earth's surface that move in relation to each other

DOWN (CONT.)

- 4. This site produced a record 52.4 million pounds of moly leach in 2017
- 5. A method of sub-surface measurement that measures changes in water pressure
- 6. A simple, reliable way to measure ground movement invented in 1879
- 8. Metallurgists at the company's mills develop these for best practices and consistency between crews
- 9. This 40-year-old reservoir at Morenci operations is being relocated
- 12. The overwhelming factor that determines whether a slope can be steepened
- 15. These are attached to metal posts hammered in at hundreds of locations in an open pit to track movement

U	Ν	S	G	Ν	T	Т	S	А	L	В	E	N	E	G
G	Ν	I	Т	Т	T	L	Ρ	S	E	R	P	Х	Ν	Е
E	С	А	F	Н	С	Ν	Е	В	U	0	Т	А	0	0
Т	R		М	S	Н	0	T	L	Е	Ε	L	Υ	Т	М
Ρ	R	0	D	U	С	Т	1	0	N	S	Н	0	Т	Е
Ν	А	F	D	S	D	Α	U	S	R	М	С	L	А	С
М	D	W	Ζ	0	F	G	0	Ζ	Т	Κ	J	S	Т	Н
Ν	Н	G	۷	Е	χ	М	С	Н	Κ	0	Е	А	S	А
Т	J	R	Ρ	С	Ε	V	В	Т	0	Y	V	Ρ	L	N
Х	-L	0	S	Т	E	Е	Ρ	Е	Ν	- I	Ν	G	А	1
Ν	L	R	E	T	Е	М	0	Ζ	Е	- I	Ρ	С	Т	С
S	G	R	0	U	Ν	D	Ρ	R	0	В	Е	А	0	А
Ĩ	В	Ĩ	S	R	А	D	Α	R	М	R	G	А	Т	L
S	Y	S	Т	Ν	Ι	0	Ρ	W	А	R	D	V	Q	Н
Х	F	Е	D	Е	Е	Ρ	М	L	Ζ	Y	Η	L	М	А

WORD SEARCH: Slope Optimization

BENCH FACE BLASTING EXTENSOMETER GEOMECHANICAL GROUND PROBE IBIS RADAR PRE-SPLITTING PIEZOMETER PRODUCTION SHOT TOTAL STATION SLOPE FAILURE STEEPENING TRIM SHOT