

VUL-FRM-20-03- Mine Design Assessment

DIG PLAN



Top view

- > Indicate the attack point
 - > Access Ramp grade
 - > Crest & Toe
 - > Length & Width
 - > Faults & Hazards
 - > Coal roof contour
 - > RL for Each pass
 - > Coal LOX line if required
 - > Sectional view lines
- > Ensure compass is adjusted accordingly
 - > Include scale of design

Short cross section view

- > Slope/batter angle
- > RL (background white & font in blue)
- > Height in three points
- > Indicate Coal roof & floor
 - > Coal dip in %

Long Cross section view

- > Slope/batter angle
- > F.I. (background white & font in blue)
 - > Height in three points
 - > Indicate Coal roof & floor
 - > Coal dip in %

DIG NOTES	ENGINEERING SAFETY CHECKLIST									VULCAN MINE				
	YES	NO	N/A		YES	NO	N/A		PIT	JUPITER				
	• Is the design compliant to the short/medium term shells?	☐	☐	☐	• Where faulting is evident in pre-design information or touch coal data, has Geotech appraisal been conducted for highwall design assessment?	☐	☐	☐	STRIP BLOCK COAL SEAM					
	• Was the design parameters peer reviewed in Vulcan?	☐	☐	☐	• Has the identified hazard shown in the design map?	☐	☐	☐						
	• Does the design use the latest known surface & supply lines?	☐	☐	☐	• Is the design compliant with to the overarching Ground Control Management plan unless governed by Geotech Appraisal?	☐	☐	☐	ALEX					
	• Does the design create interaction issue with adjacent mining activities?	☐	☐	☐	• Has the floor treatment conducted or required as per Ground control management plan or Geotech recommendations?	☐	☐	☐	ALEX	DL	DLB1	TOTAL		
	• Does the design follow the guidelines from Ground control management?	☐	☐	☐	• Is the dump slope ≤ 37°? & Overall dump slope ≤ 34°?	☐	☐	☐	OVERBURDEN (BCM)				0	
	• Has the design considered overarching pit limits, roadways and contour drains?	☐	☐	☐	• Are there any dump construction constraints with the material type?	☐	☐	☐	COAL (BCM)				0	
	• Any Geotech hazard identified in previous strips/blocks or designs?	☐	☐	☐	• Is the dump rehab batter designed with cut fill balance for future rehab?	☐	☐	☐	COAL (T)	0			0	
	• Any known faults in the area or adjacent area from coal model	☐	☐	☐	• Does the design indicate area for edge protection & high risk bunding?	☐	☐	☐	DESIGNED BY					
• Any misfire or suspected misfire hazard in the design area or adjacent area?	☐	☐	☐					DATE						
SAFETY NOTES								When a hazard/issue/safety concern arises during peer review, develop controls required in agreement with Tech Service Superintendent or Production Superintendent. Controls set are to be documented and included in Mine design assessment dig notes.	PEER REVIEWED BY					
									DATE					
	• The implementation of this plan may create numerous open edges. These will require safety bunds to be installed by operating crews and monitored by crew supervisors. • Chamfer corners to allow for geostability • Operations to complete a risk assessment if there is an interaction between active dumps and mining area/active circuit. • All relevant SOP & SWP regarding bunds shall be followed.								TS SUPERINTENDENT					
									DATE					
									DESIGN PATH					