

**Material Keys**

- Overburden
- Sand and Gravel
- Weathered Bedrock
- Stable Bedrock
- Slurry Wall

**Analysis 1**

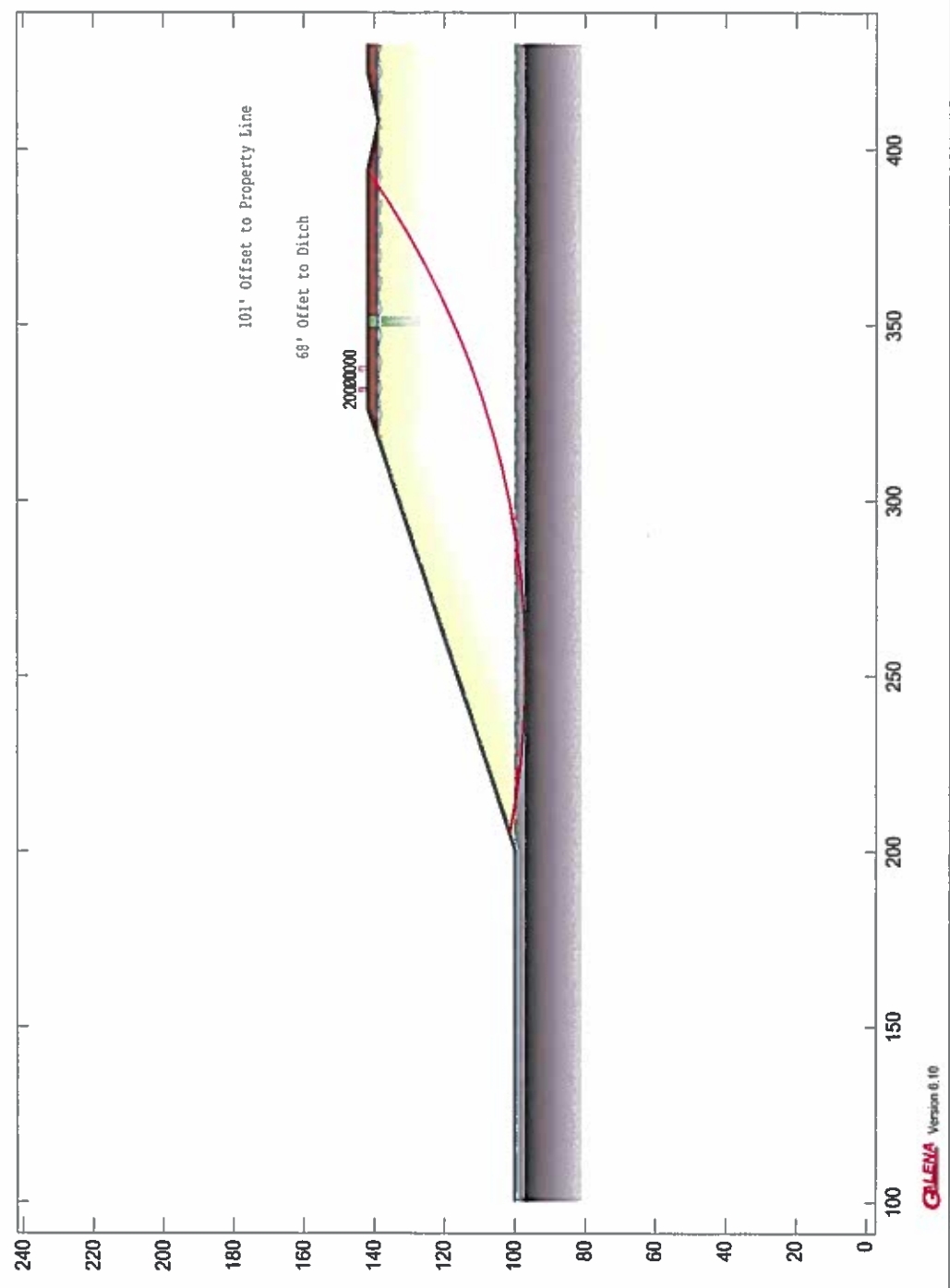
Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

**Results**

Factor of Safety: 1.32

Edited: 13 Mar 2017    Processed: 13 Mar 2017

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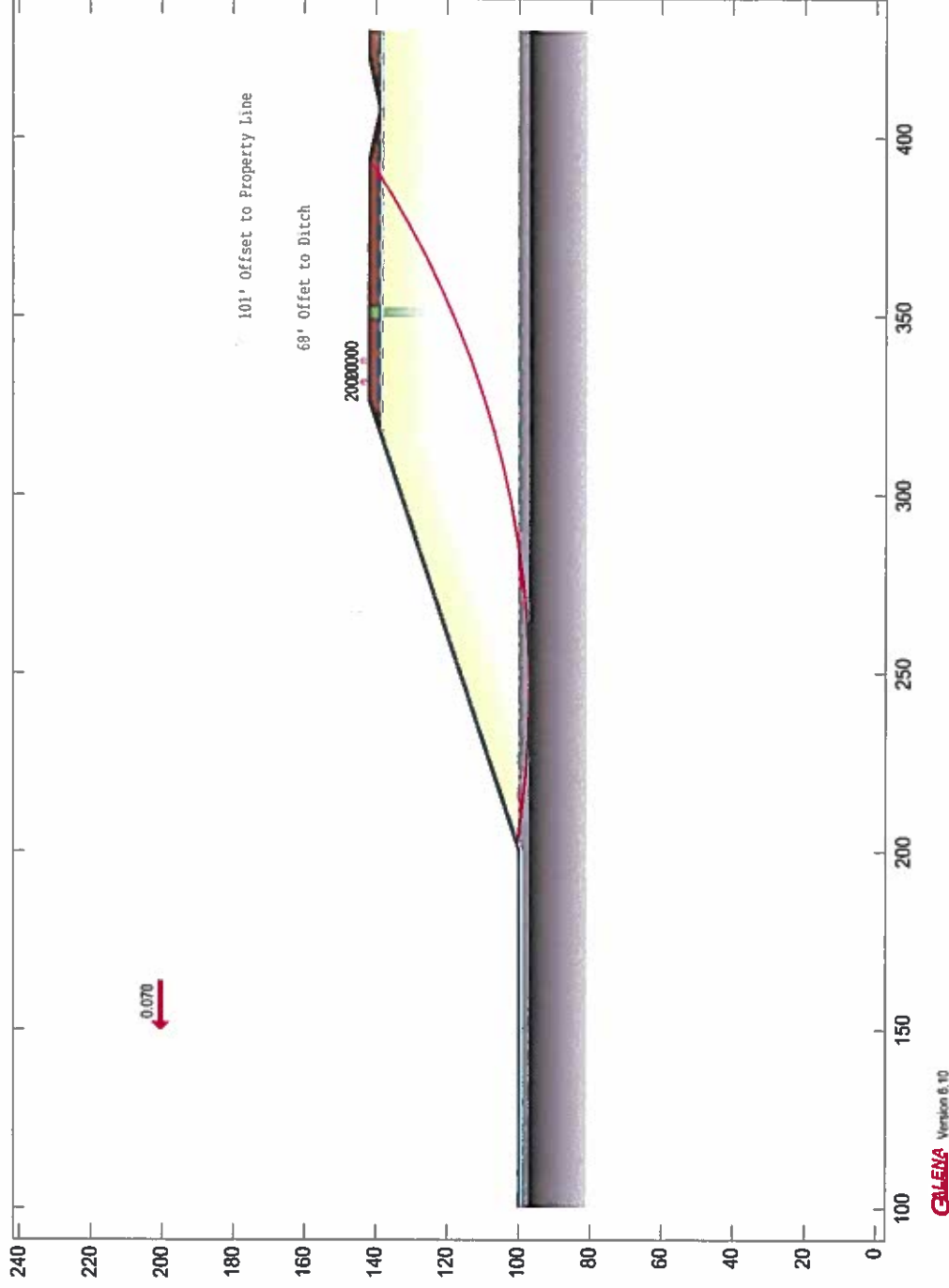
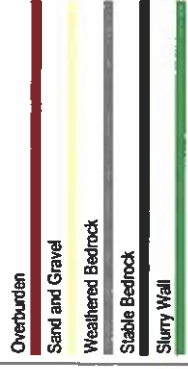


**Project Bennett Pit**

**Case 1 - Rapid Drawdown**

File: C:\Users\josh\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 1 Rapid Drawdown Final.gmf

**Material Keys**



**GALENA** Version 6.10

**Analysis 1**

Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

**Results**

Factor of Safety: 1.00

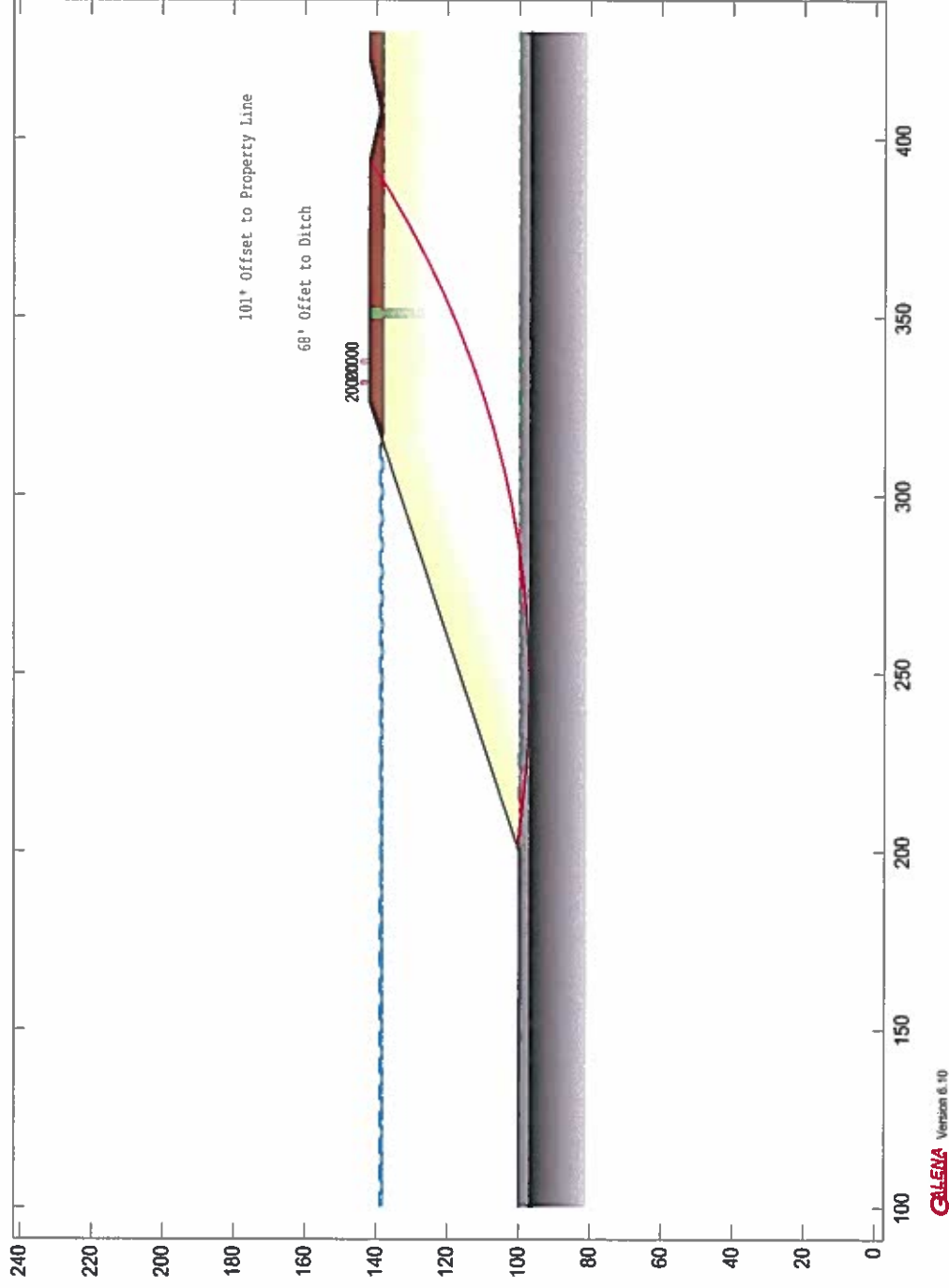
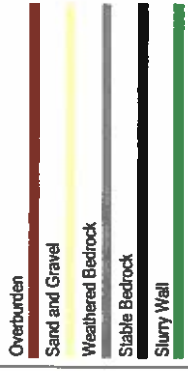
Edited: 13 Mar 2017    Processed: 13 Mar 2017

**Project** Bennett Pit  
Case 1 - Rapid Drawdown

File: C:\Users\jsh\My Projects\7 Galena - Stability Analysis Models\Bennett Pit\Case 1 Rapid Drawdown EQ Final.gmf

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**Material Keys**



**Project** Bennett Pit  
Case 1 - Full

File: C:\Users\josh\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 1 Full Final.gmf

**GALENA** Version 6.10

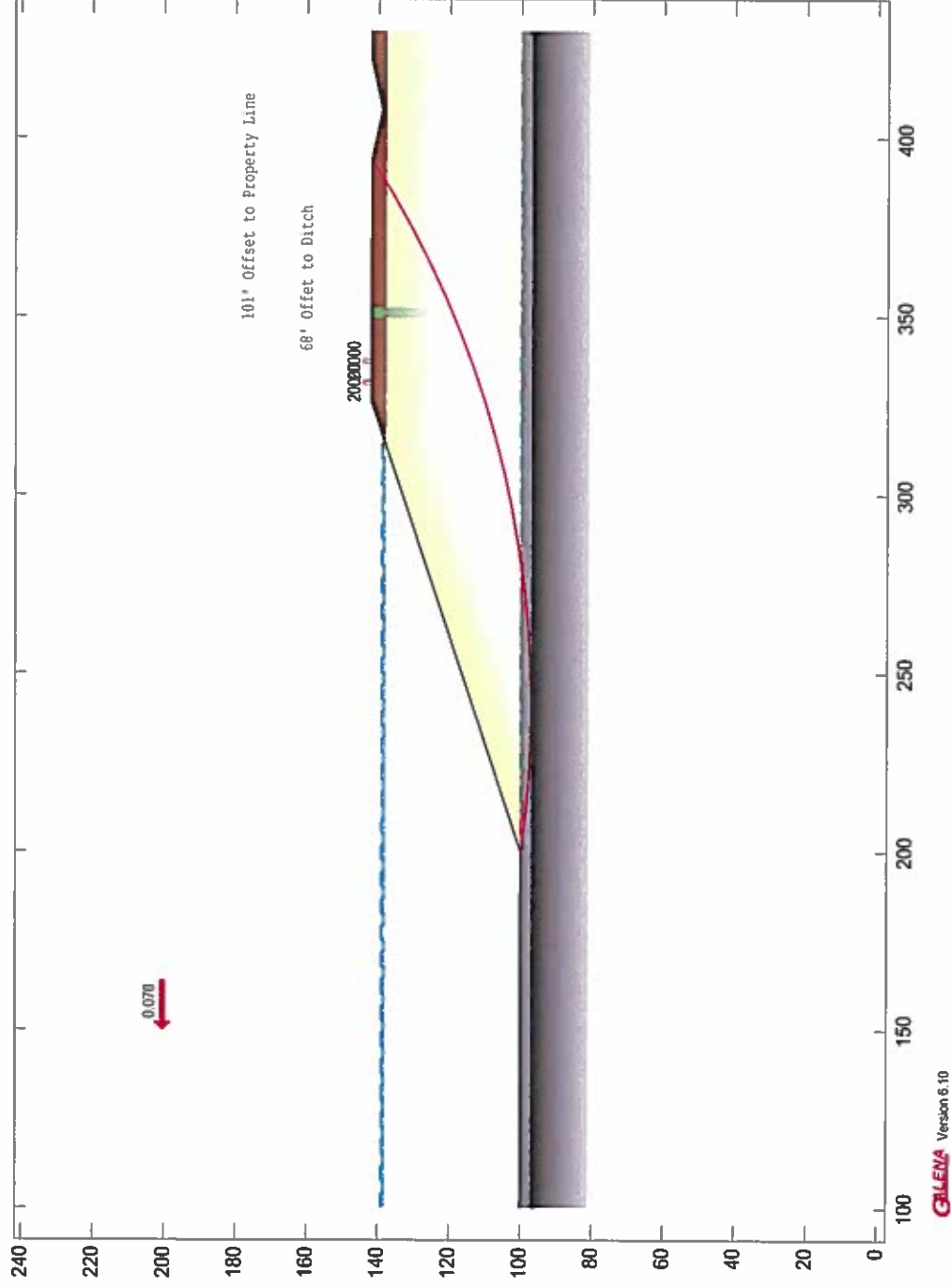
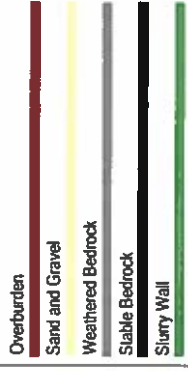
**Analysis 1**  
Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

**Results**  
Factor of Safety: 4.06

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# Material Keys



## Analysis 1

Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

## Results

Factor of Safety: 2.54

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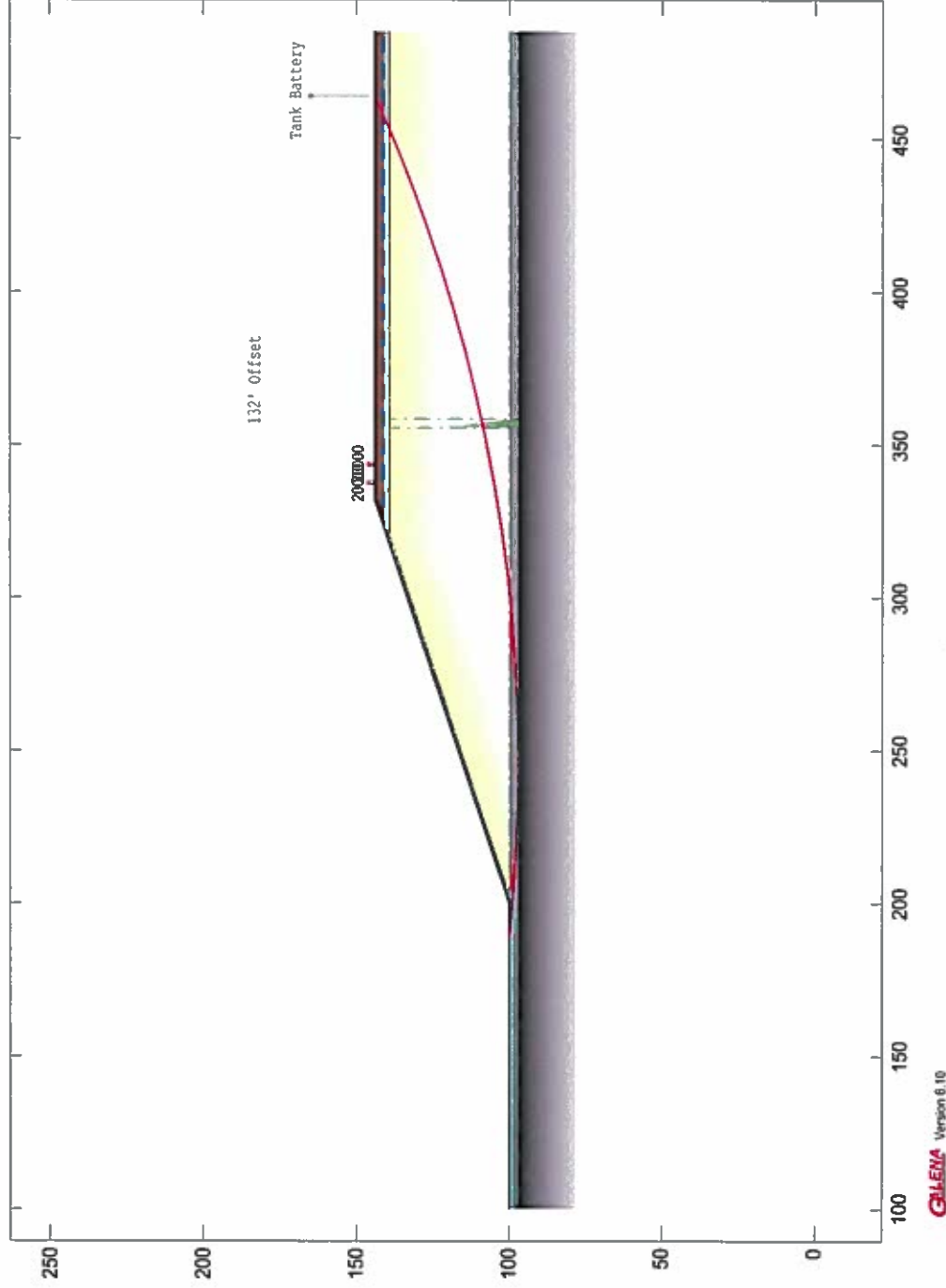
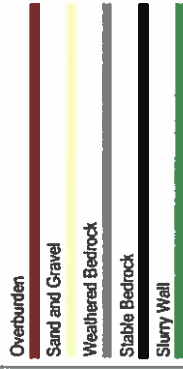
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Project Bennett Pit  
Case 1 - Full EQ

File: C:\Users\josh\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 1 Full EQ Final.gmf

GALENA Version 6.10

Material Keys



Analysis 1

Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

Results

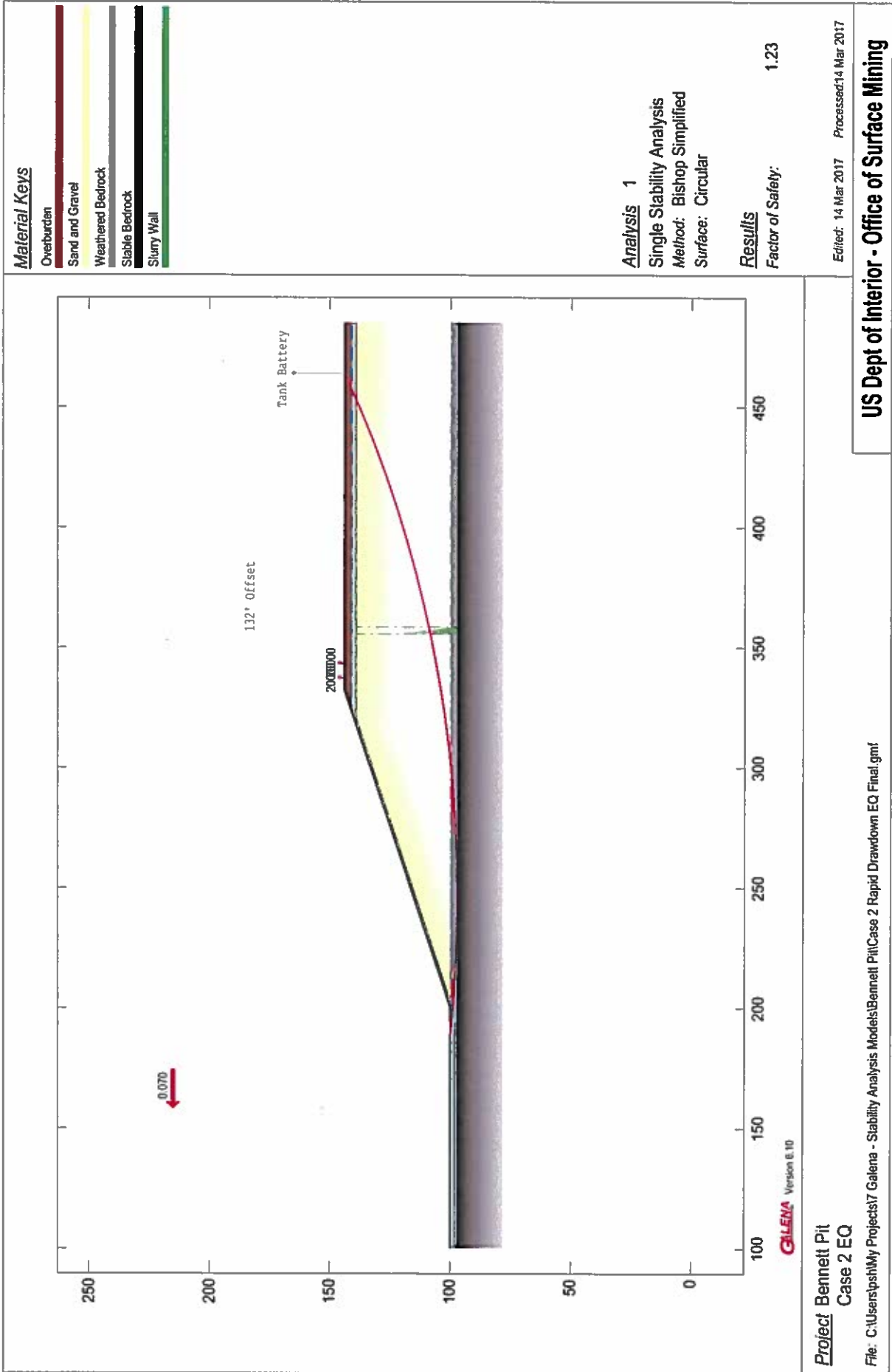
Factor of Safety: 1.78

Project Bennett Pit  
Case 2

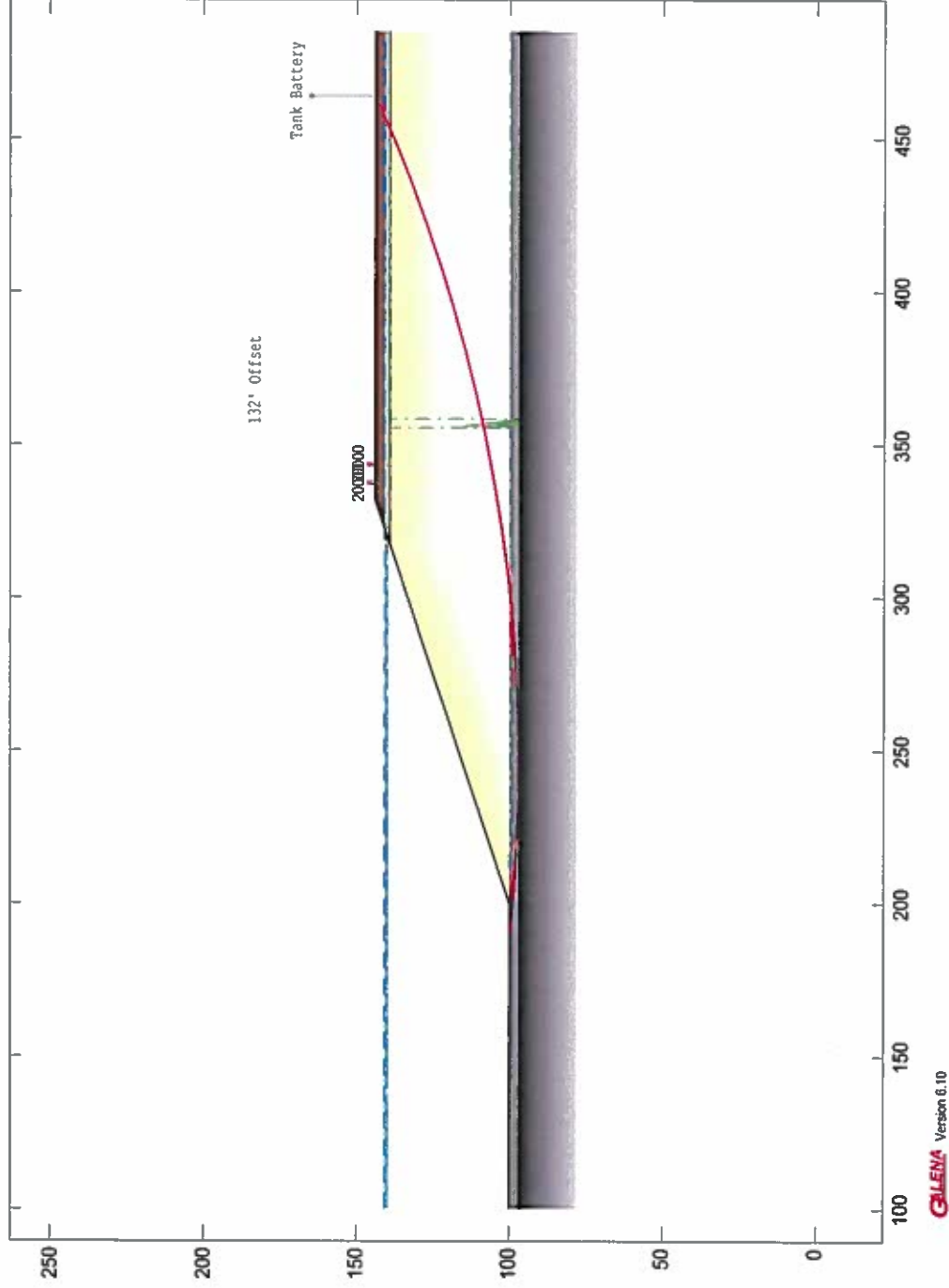
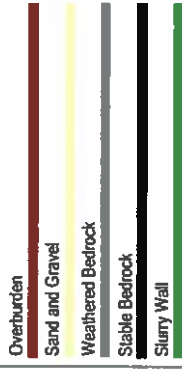
File: C:\Users\josh\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 2 Rapid Drawdown Final.gmf

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**Material Keys**



**Analysis 1**  
Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

**Results**  
Factor of Safety: 4.18

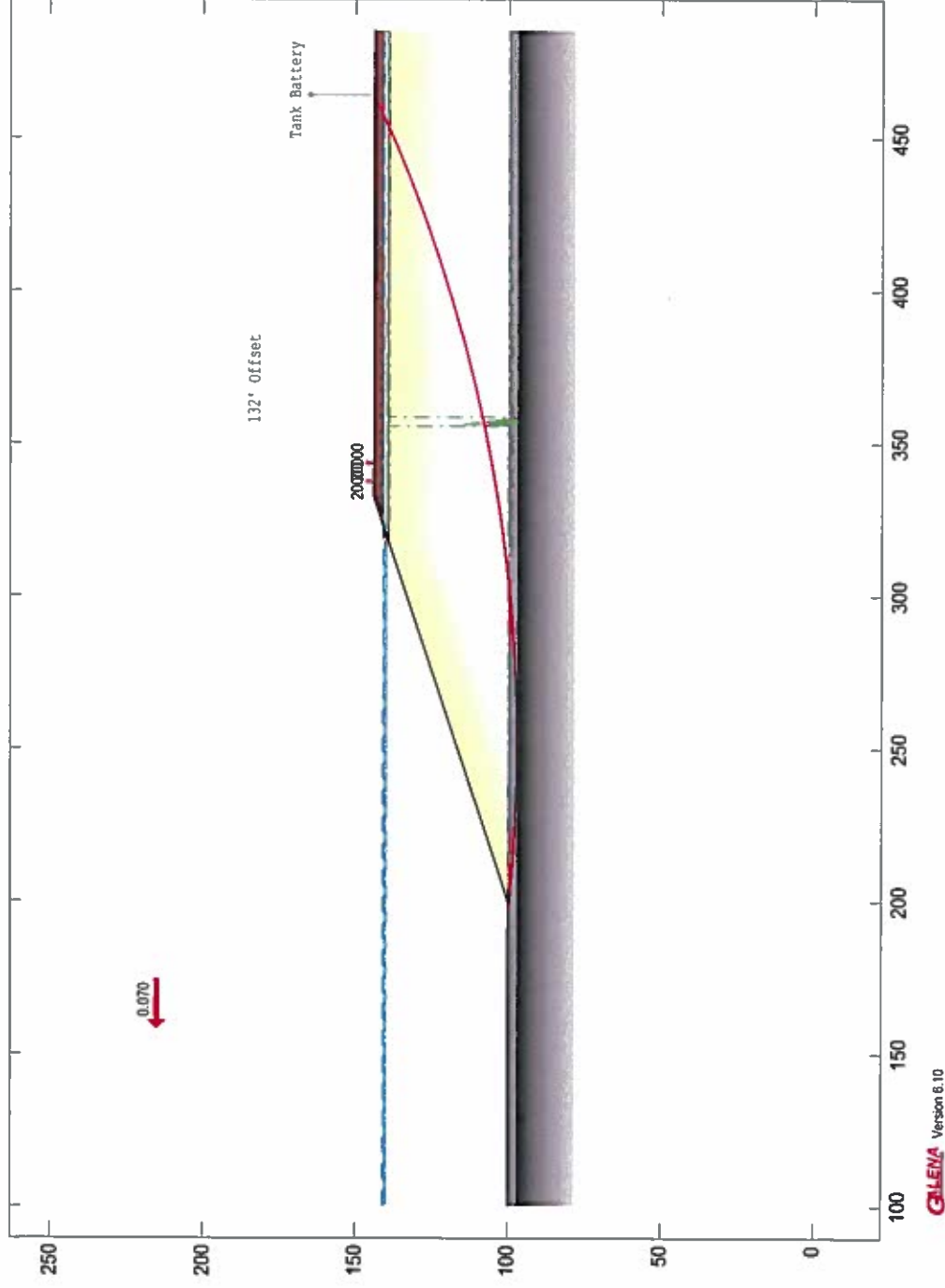
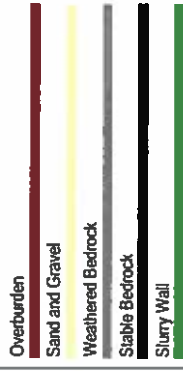
Edited: 14 Mar 2017 Processed: 14 Mar 2017

**Project** Bennett Pit  
Case 2 Full

File: C:\Users\joshmy\Projects\7 Galena - Stability Analysis Models\Bennett Pit\Case 2 Full Final.gmf

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# Material Keys



## Analysis 1

Single Stability Analysis

Method: Bishop Simplified

Surface: Circular

## Results

Factor of Safety:

2.09

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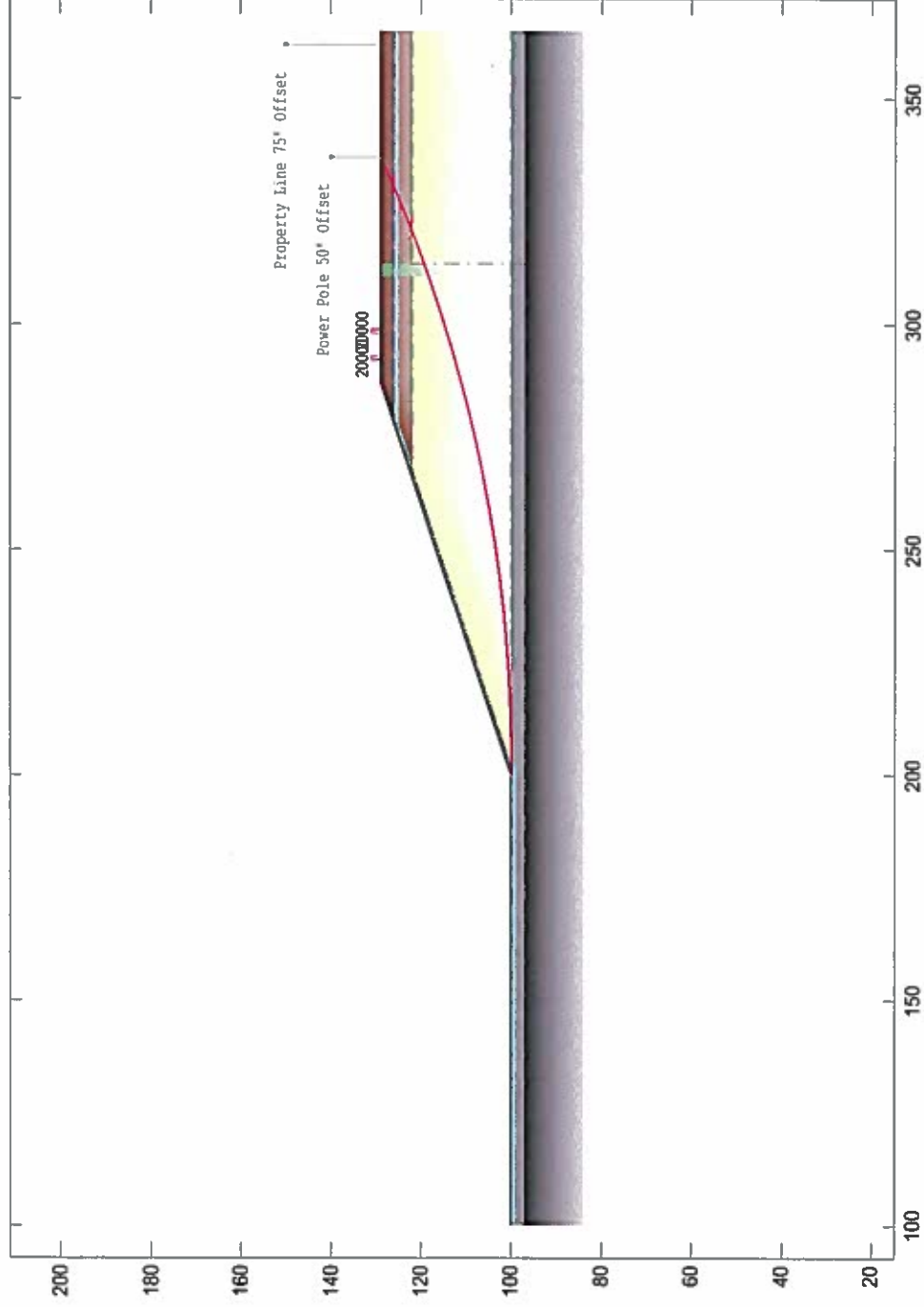
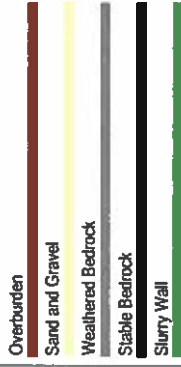
Project Bennett Pit  
Case 2 Full EQ

File: C:\Users\joshmy\Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 2 Full EQ Final.gmf

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**Material Keys**



GALENA Version 6.10

**Analysis 1**

Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

**Results**

Factor of Safety: 1.67

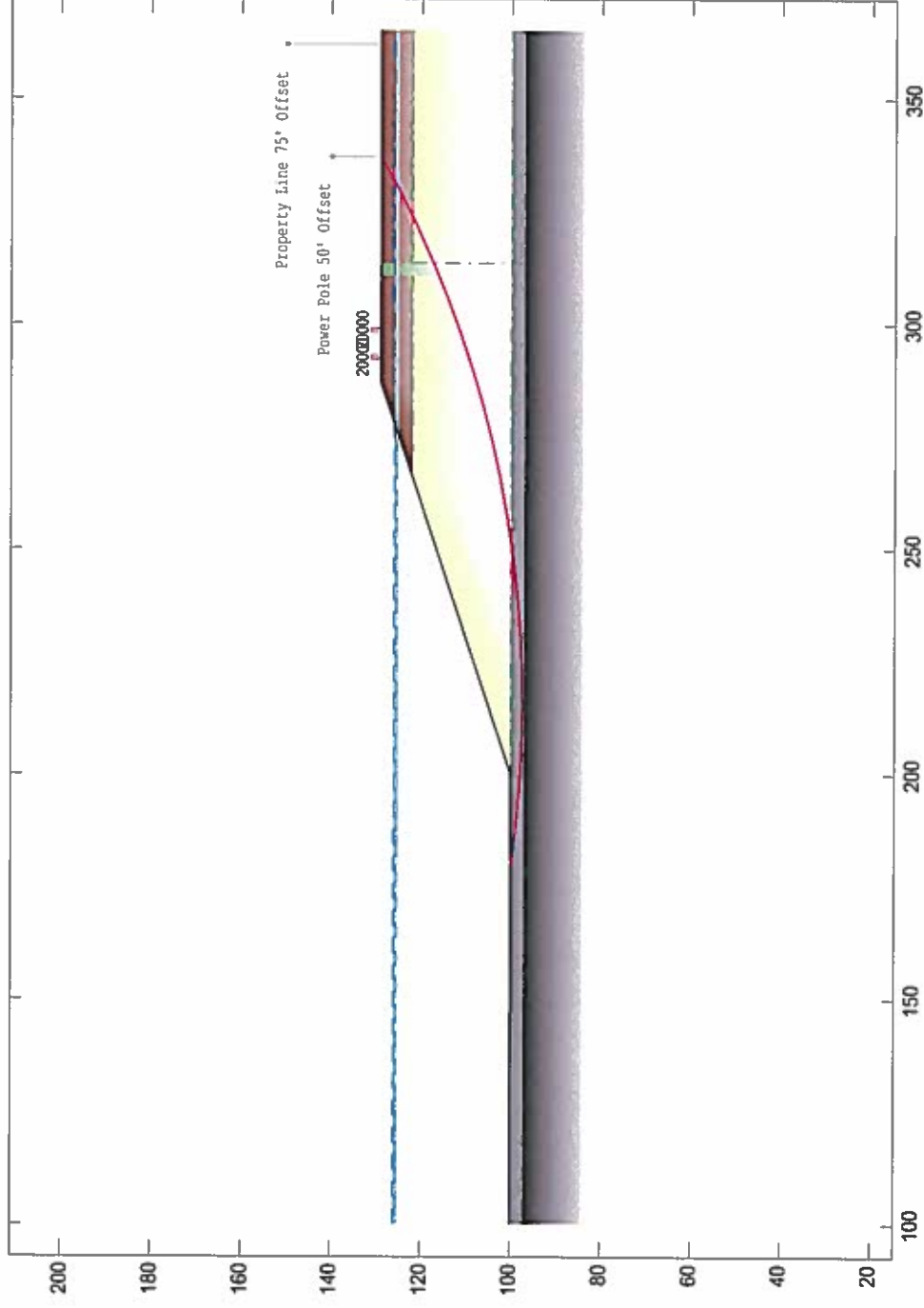
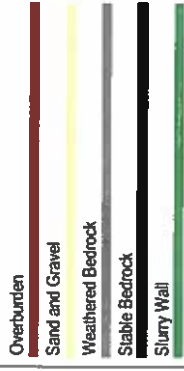
**Project Bennett Pit  
Case 3**

File: C:\Users\josh\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 3 Rapid Drawdown Final.gmf

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**Material Keys**



GALENA Version 6.10

**Analysis 1**

Single Stability Analysis

Method: Bishop Simplified

Surface: Circular

**Results**

Factor of Safety:

3.05

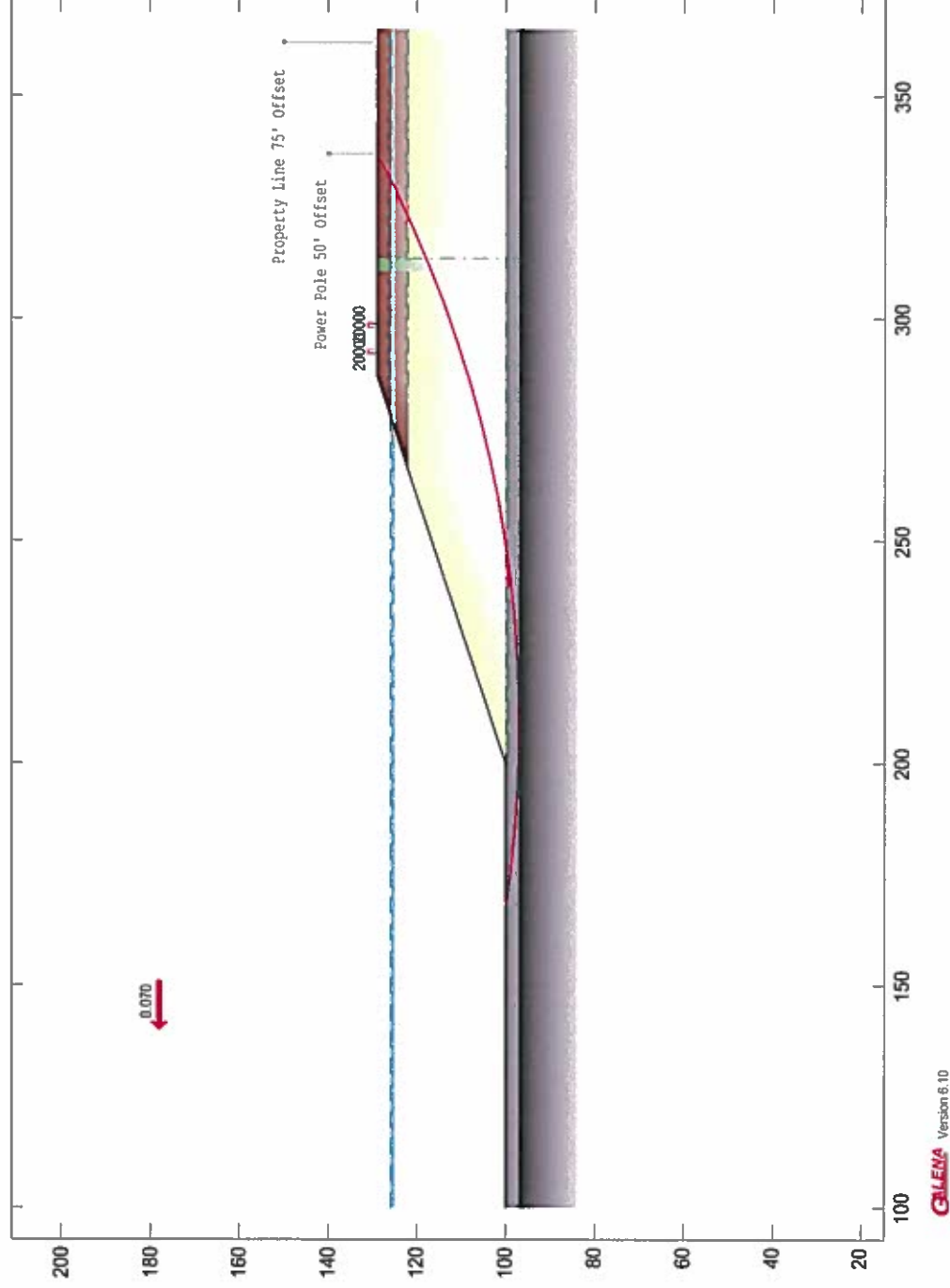
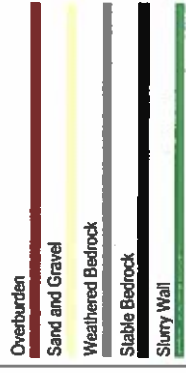
**Project** Bennett Pit  
Case 3 Full

File: C:\Users\psh\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 3 Full Final.gml

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**Material Keys**



**GALENA** Version 6.10

**Analysis 1**  
Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

**Results**  
Factor of Safety: 2.07

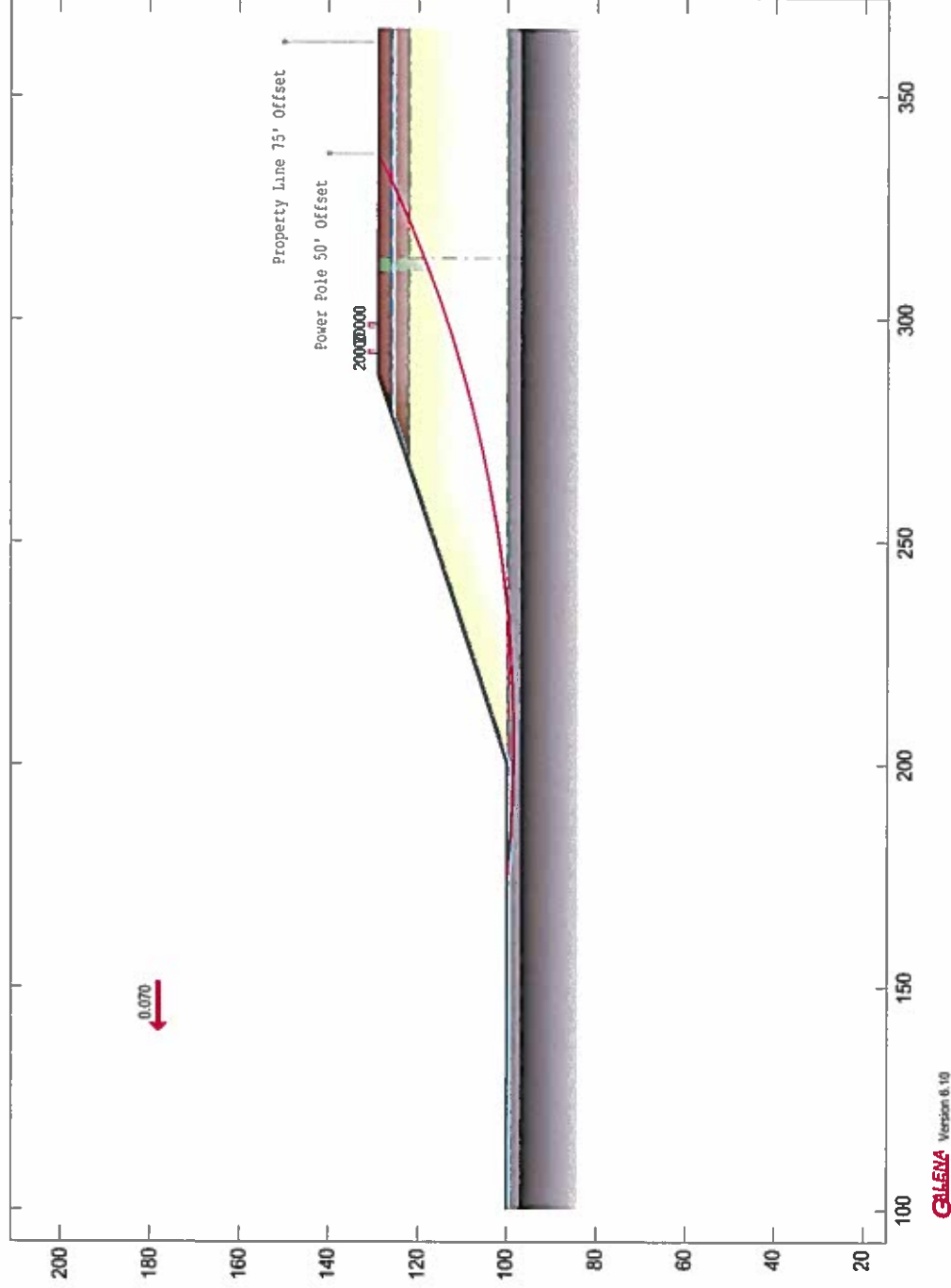
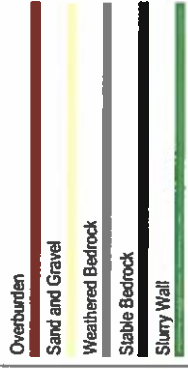
Edited: 14 Mar 2017 Processed: 14 Mar 2017

**Project** Bennett Pit  
Case 3 Full EQ

File: C:\Users\psh\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 3 Full EQ Final.gmf

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**Material Keys**



**Analysis 1**

Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

**Results**

Factor of Safety: 1.30

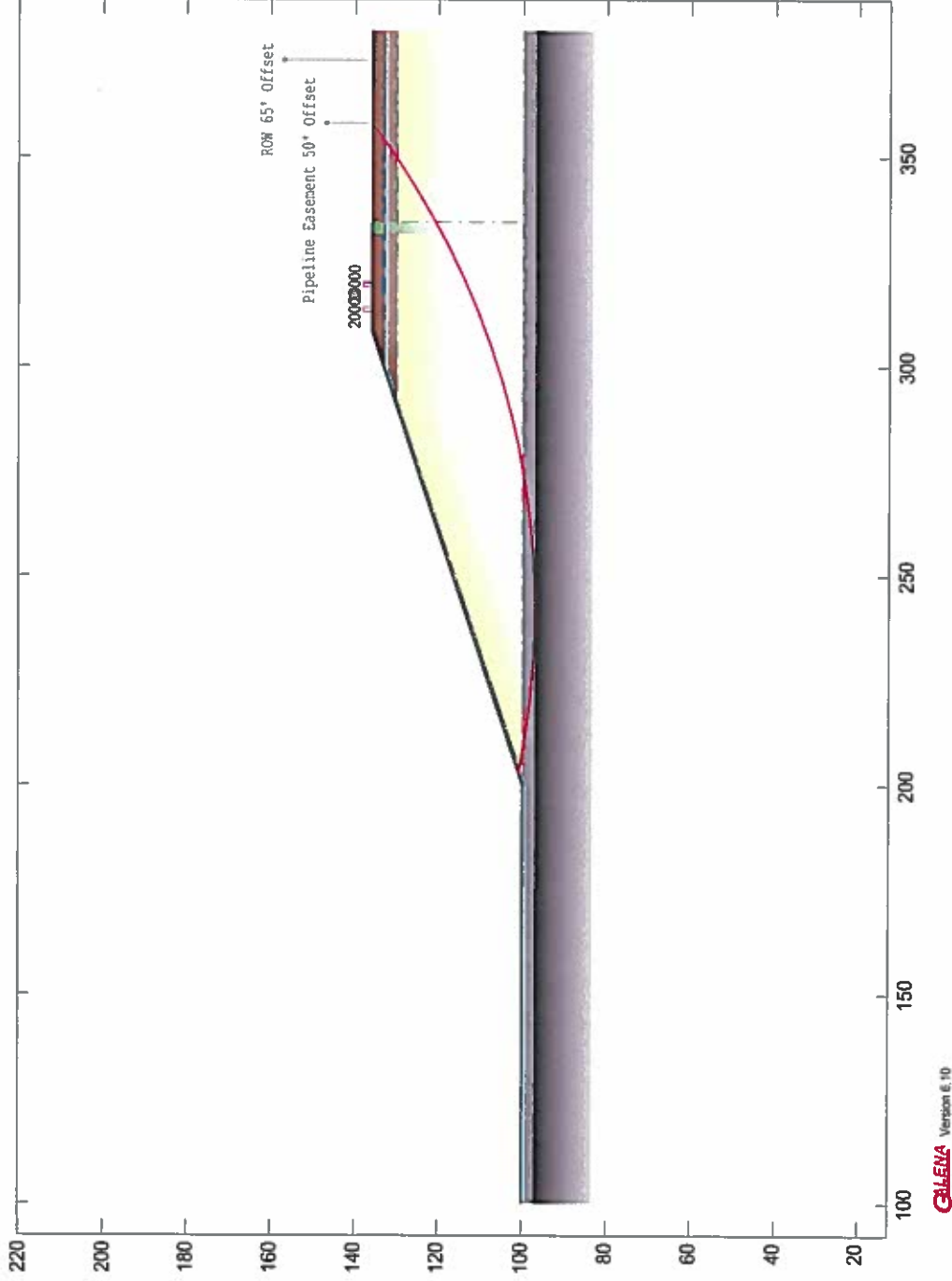
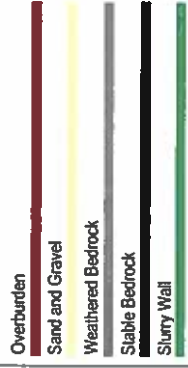
Edited: 14 Mar 2017 Processed: 14 Mar 2017

**Project** Bennett Pit  
Case 3 EQ

File: C:\Users\shmy\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 3 Rapid Drawdown EQ Final.gmf

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**Material Keys**



**Analysis 1**

Single Stability Analysis

Method: Bishop Simplified

Surface: Circular

**Results**

Factor of Safety: 1.25

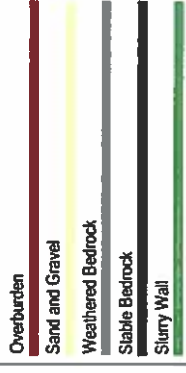
Edited: 14 Mar 2017 Processed: 14 Mar 2017

**Project** Bennett Pit  
**Case 4** Rapid Drawdown

File: C:\Users\pshmy\Projects\7 Galena - Stability Analysis Models\Bennett Pit\Case 4 Rapid Drawdown Final.gml

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**Material Keys**



**Analysis 1**

Single Stability Analysis

Method: Bishop Simplified

Surface: Circular

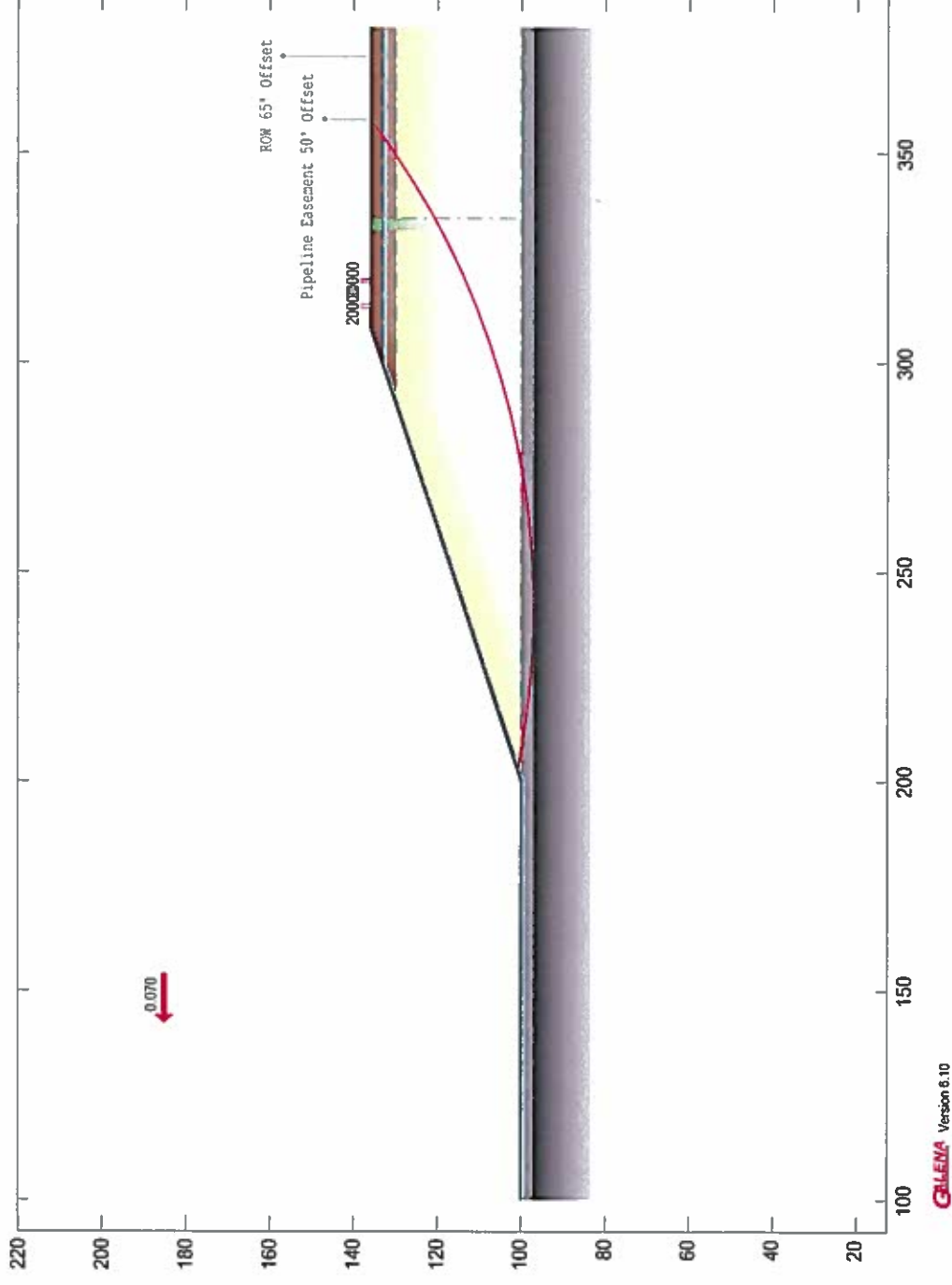
**Results**

Factor of Safety:

0.97

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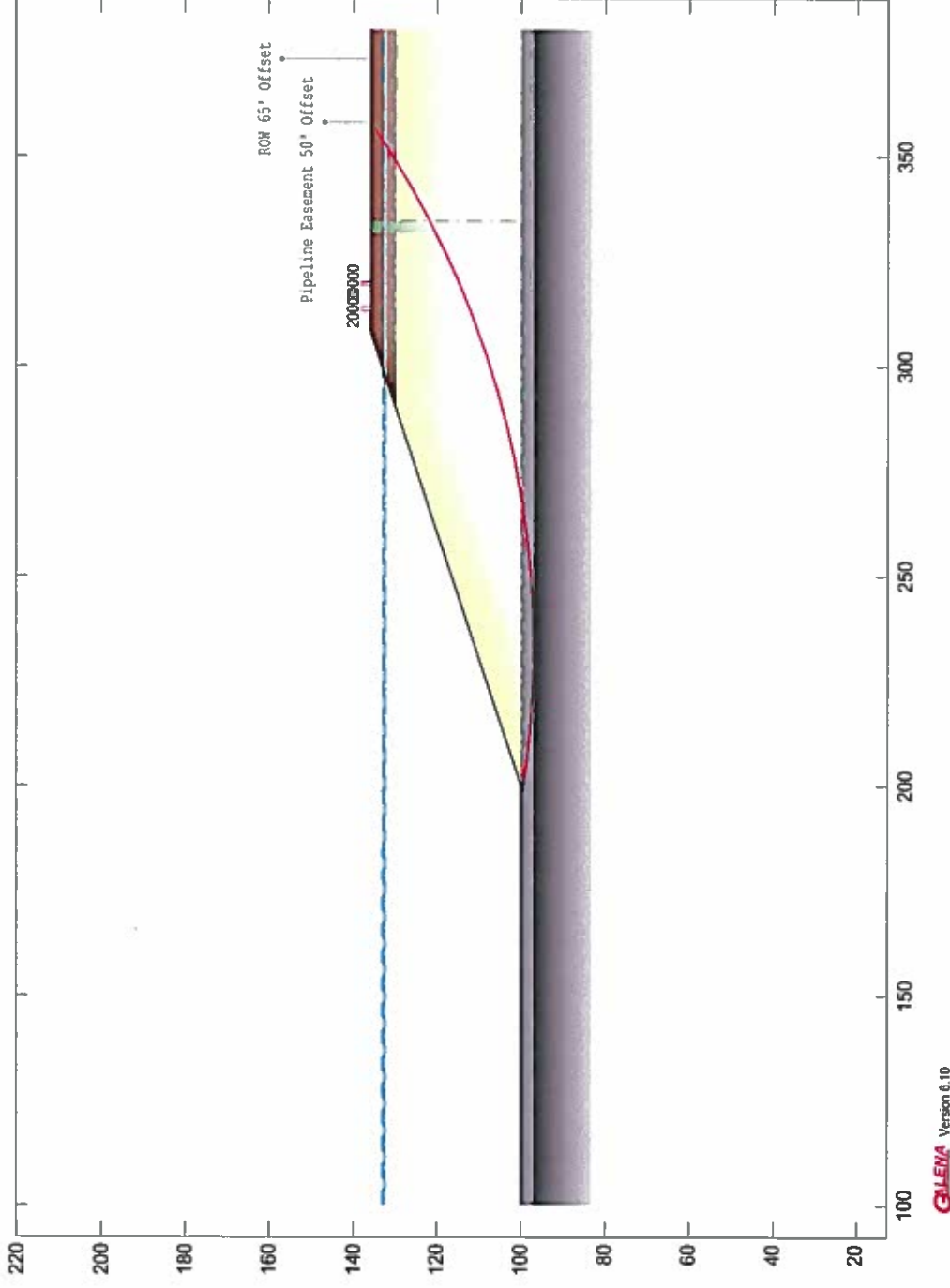
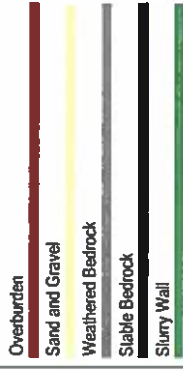


**Project Bennett Pit**

**Case 4 Rapid Drawdown EQ**

File: C:\Users\stish\My Project\st17 Galena - Stability Analysis Models\Bennett Pit\Case 4 Rapid Drawdown EQ Final.gmf

**Material Keys**



**GILENA** Version 6.10

**Analysis 1**

Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

**Results**

Factor of Safety: 2.60

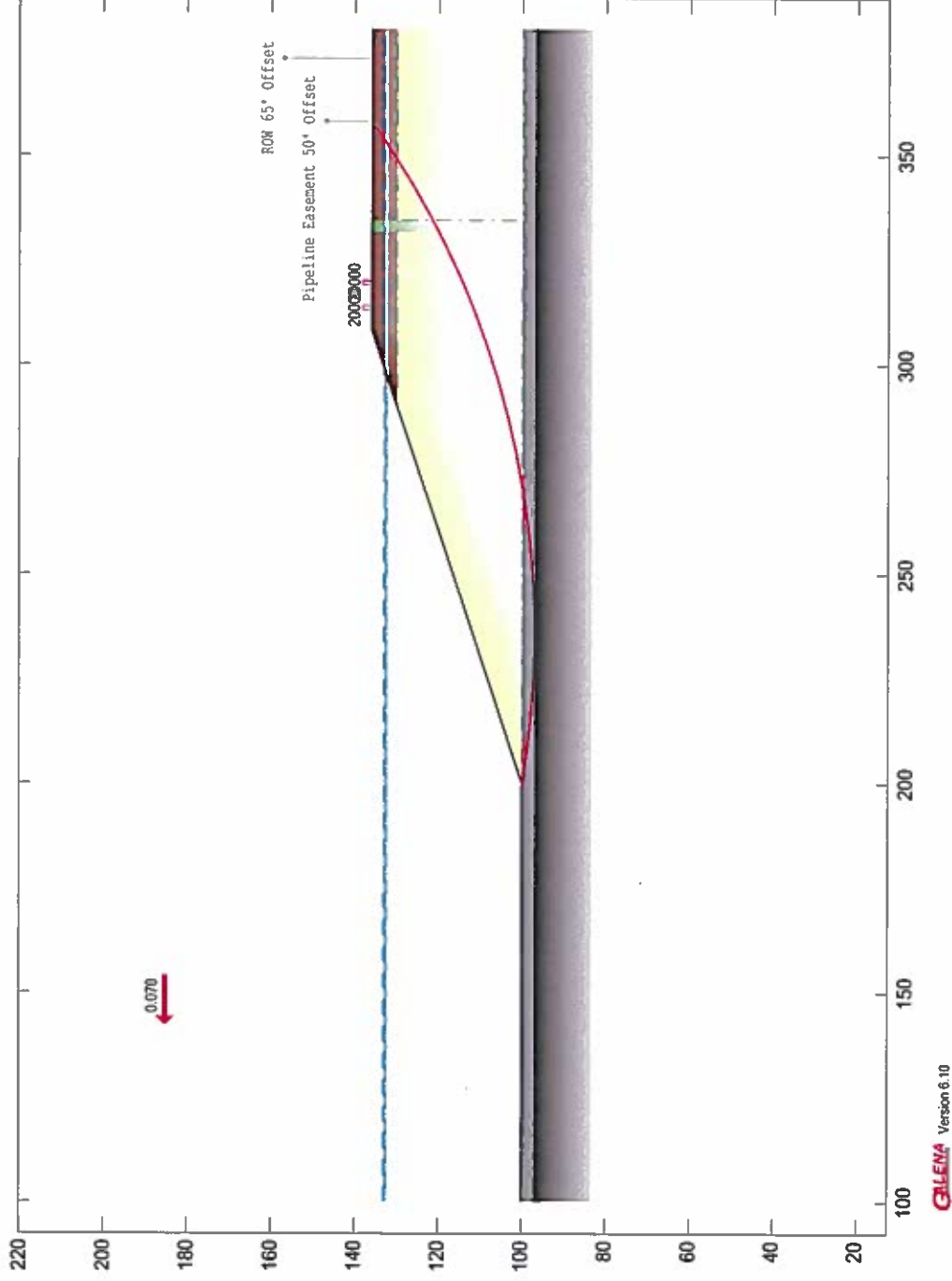
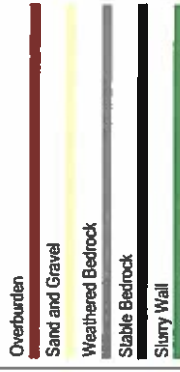
**Project** Bennett Pit  
**Case 4 Full**

File: C:\Users\psh\My Projects\17 Galena - Stability Analysis Model\Bennett Pit\Case 4 Full Final.gmf

Edited: 14 Mar 2017 Processed: 14 Mar 2017

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# Material Keys



## Analysis 1

Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

## Results

Factor of Safety: 1.71

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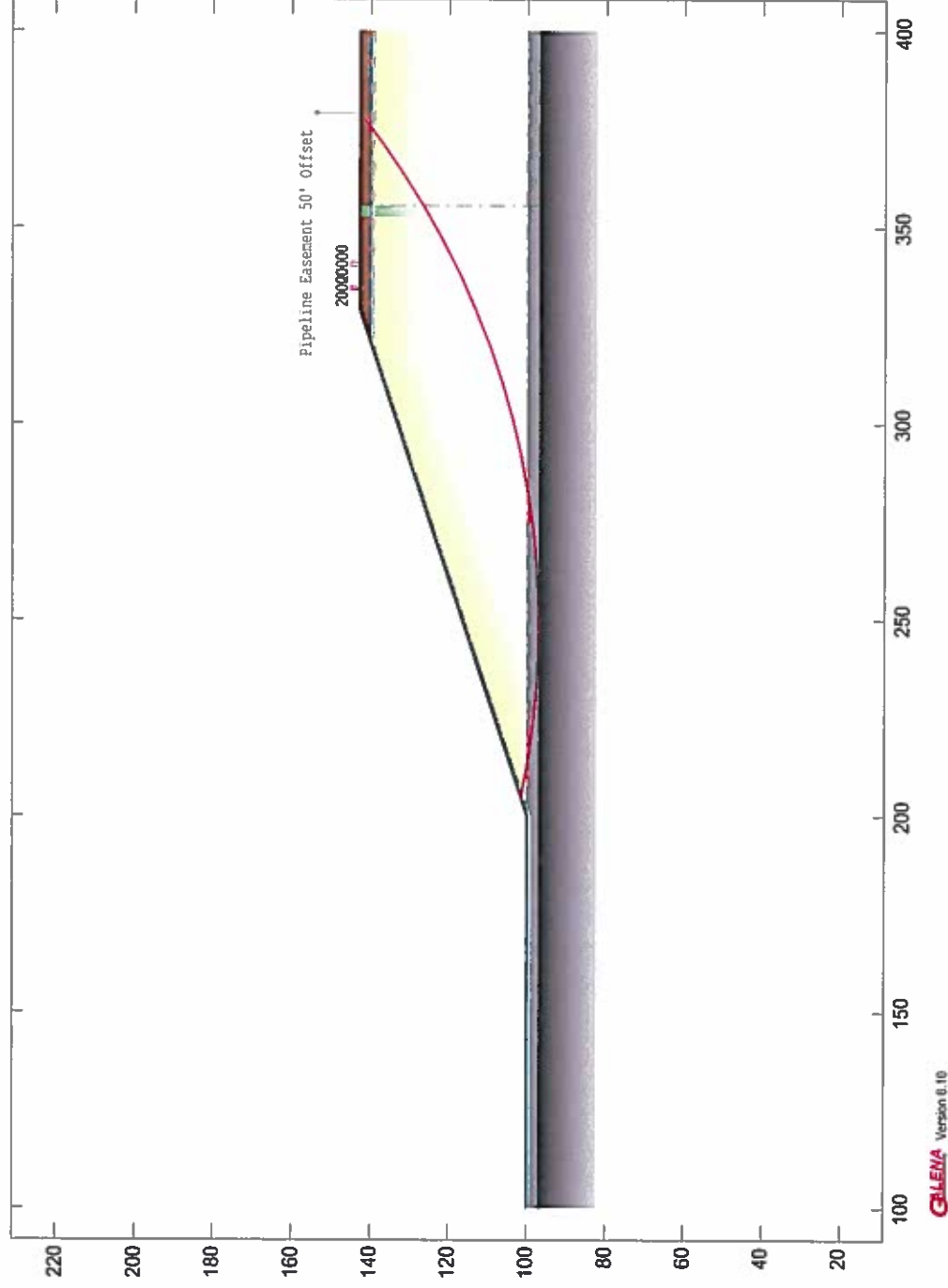
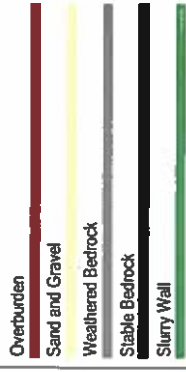
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Project Bennett Pit  
Case 4 Full EQ

File: C:\Users\pshMy\Project\17 Galena - Stability Analysis Models\Bennett Pit\Case 4 Full EQ Final.gmf



**Material Keys**



**Analysis 1**

Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

**Results**

Factor of Safety: 1.14

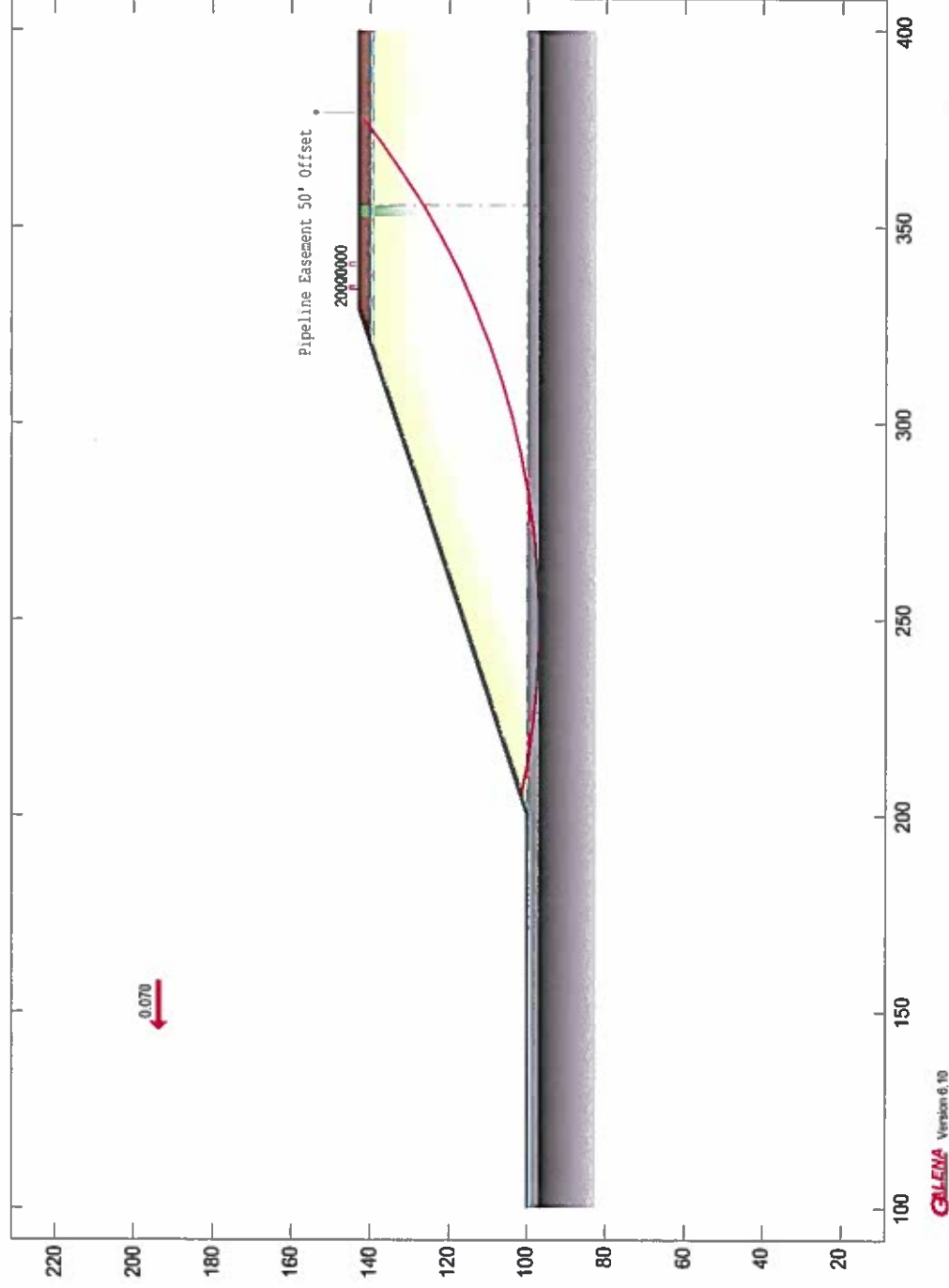
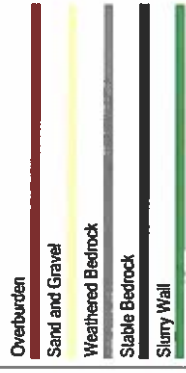
Edited: 14 Mar 2017 Processed:14 Mar 2017

**Project Bennett Pit**  
**Case 5 Rapid Drawdown**

File: C:\Users\psh\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 5 Rapid Drawdown Final.gmf

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# Material Keys



## Analysis 1

Single Stability Analysis

Method: Bishop Simplified

Surface: Circular

## Results

Factor of Safety:

0.89

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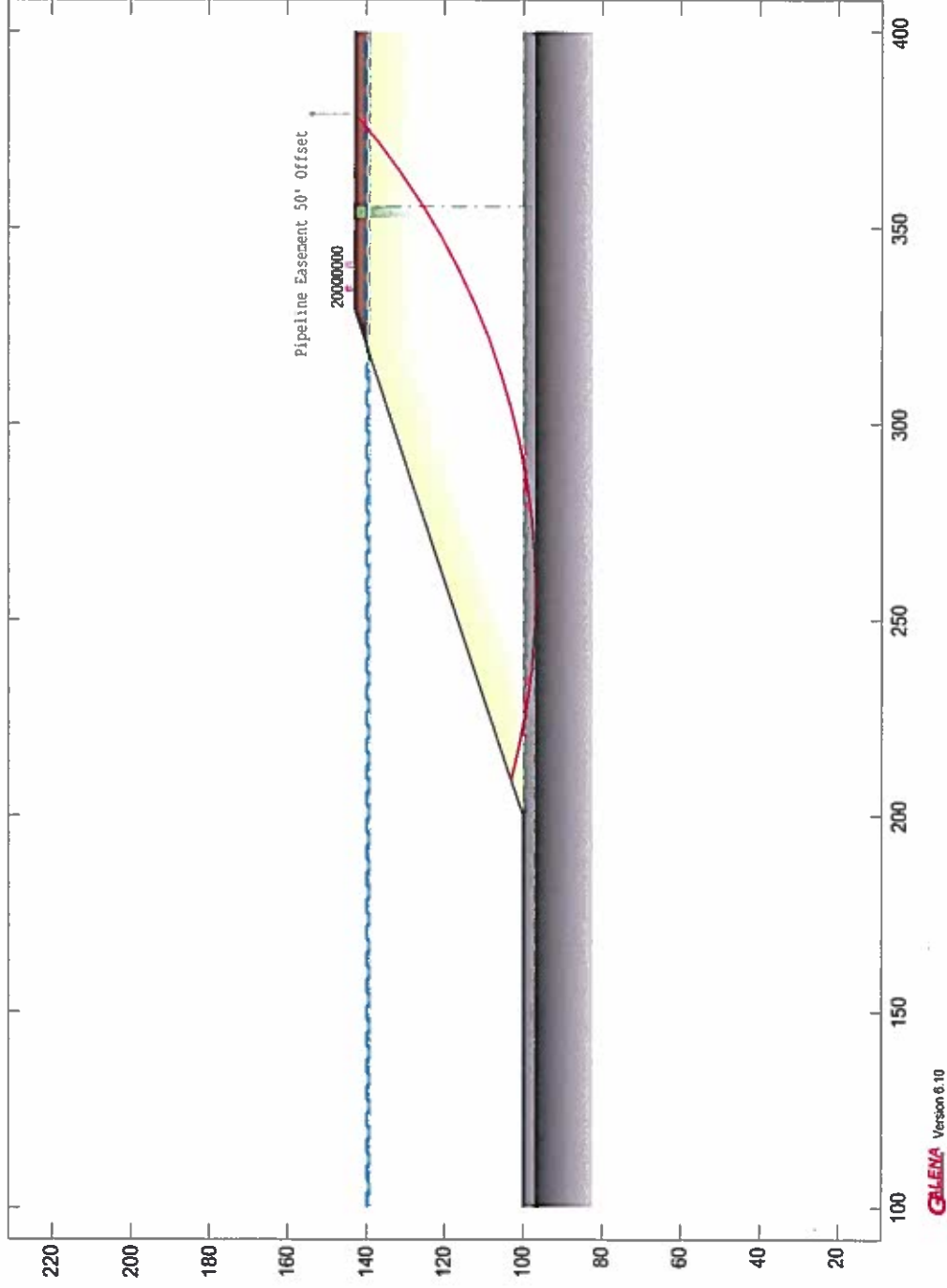
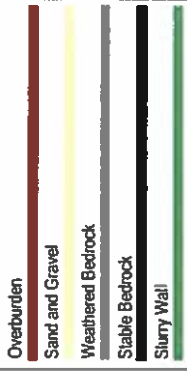
## Project Bennett Pit

### Case 5 Rapid Drawdown EQ

File: C:\Users\psmith\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 5 Rapid Drawdown EQ Final.gmf

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**Material Keys**



GALENA Version 6.10

**Analysis 1**

Single Stability Analysis

Method: Bishop Simplified

Surface: Circular

**Results**

Factor of Safety:

2.35

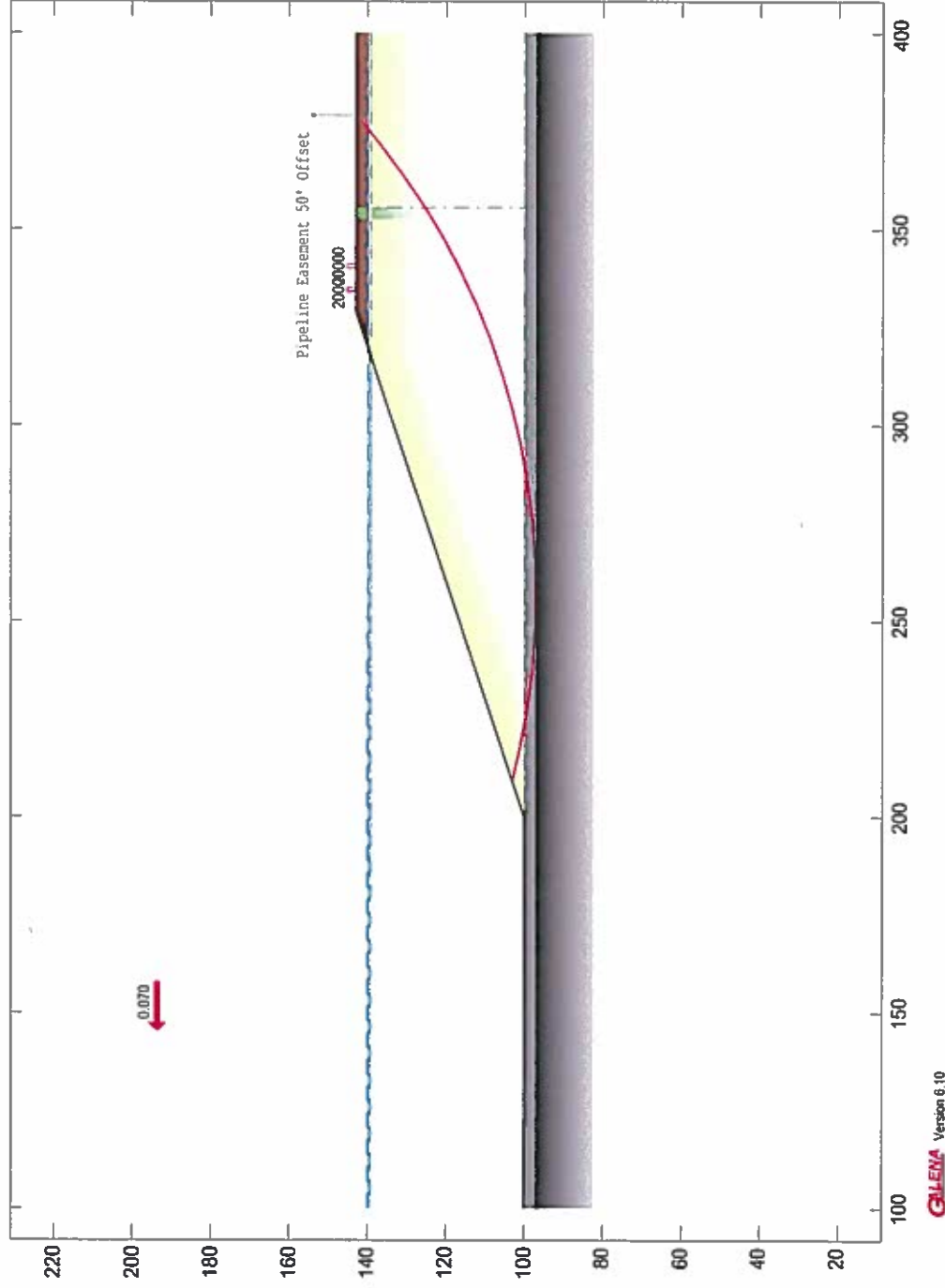
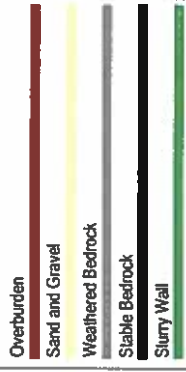
Edited: 14 Mar 2017 Processed:14 Mar 2017

**Project Bennett Pit**  
**Case 5 Full**

File: C:\Users\psm\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 5 Full Final.gmf

**US Dept of Interior - Office of Surface Mining**

# Material Keys



## Analysis 1

Single Stability Analysis  
Method: Bishop Simplified  
Surface: Circular

## Results

Factor of Safety: 1.55

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Project Bennett Pit  
Case 5 Full EQ

File: C:\Users\psh\My Projects\17 Galena - Stability Analysis Models\Bennett Pit\Case 5 Full EQ Final.gml

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