

## DATAMINE

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### Modeling And Ore Reserve Estimation Of Chahmir-Bahabad Pb-Zn Deposit (Bahabad District) Using Datamine Software

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#### Abstract

Modeling and ore reserve estimation of deposits is one of the main procedures in detailed exploration stage, which uses all of the exploration data and geological information. It mainly applies to the design and production plan of deposit. Today, due to the development of science and technology, modelling of deposits can be done with high speed and accuracy. Datamine is one of the main software for modeling and ore reserve estimation which, is very popular, especially in Iran.

In this paper, using Datamine and latest data, oxide ore reserve of Chah Mir Deposit has been estimated. For this propose firstly, borehole data were classified properly and input to the software. Then the sections and geometric model was constructed. After that the specification of proposed blocks was calculated. Finally the oxide part of the deposit was estimated to be 58000 tonnes with average zinc of 11.57%.

**Key Word:** Ore reserve estimation, Chah Mir Mine, Modeling, Pb – Zn, Datamine.

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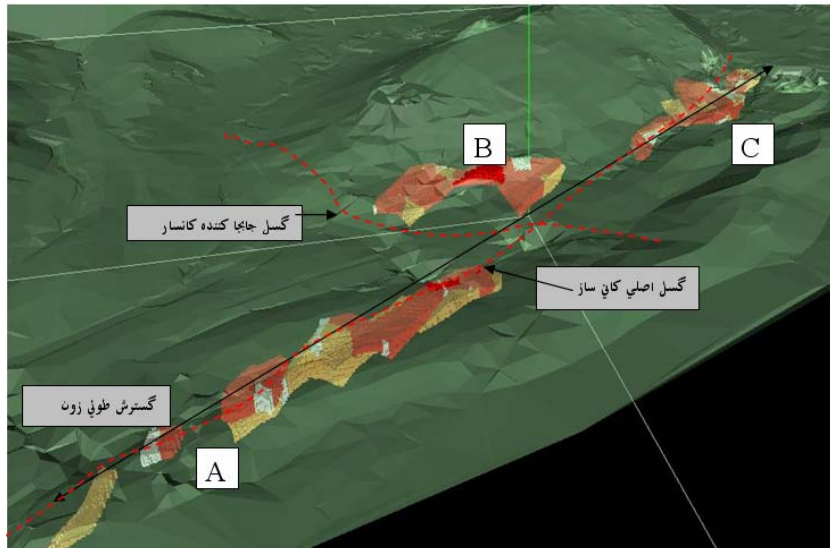
(  $\leq Zn$  )

(  $\leq Zn <$  )

(  $Zn <$  )

[ ] ( )

C B A



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(assay)  
(Litology)

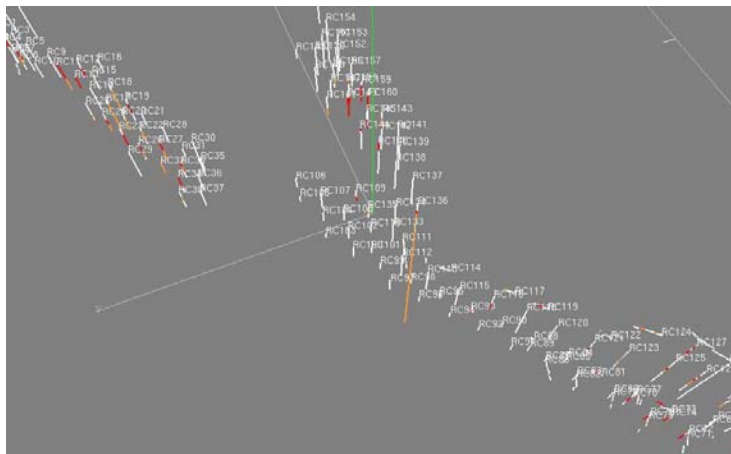
(survey)

(holes)

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(holesc)

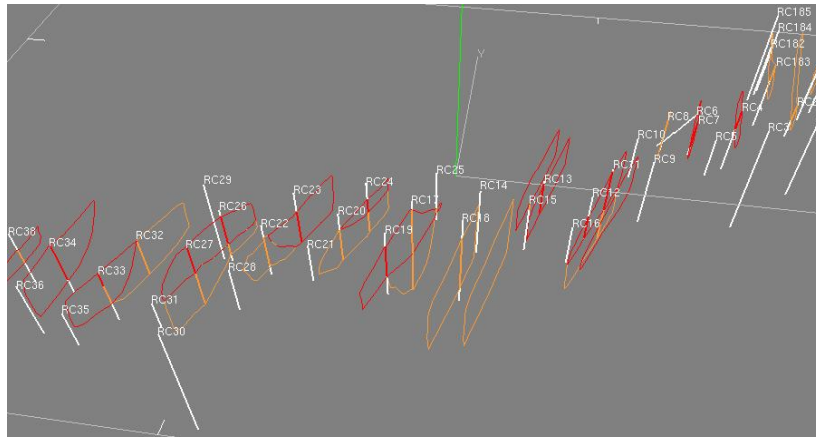


holesc

(string)

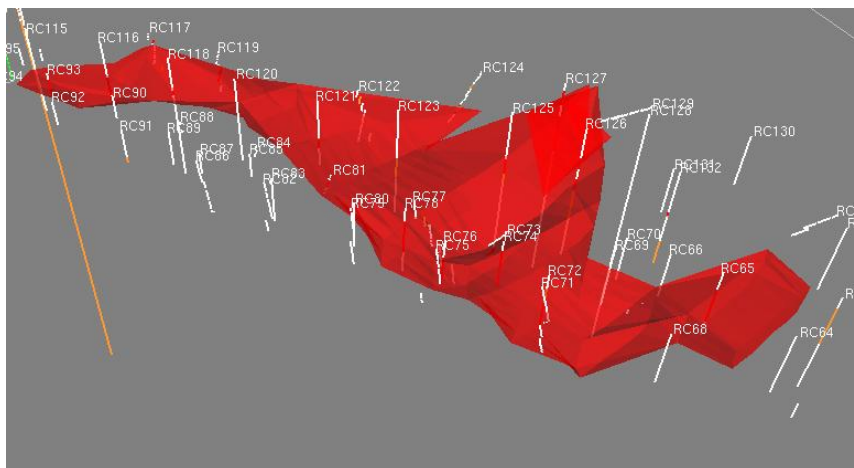
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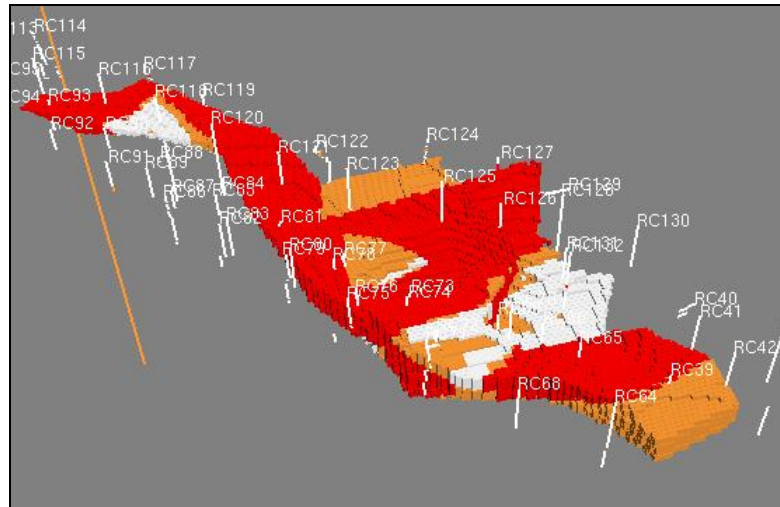


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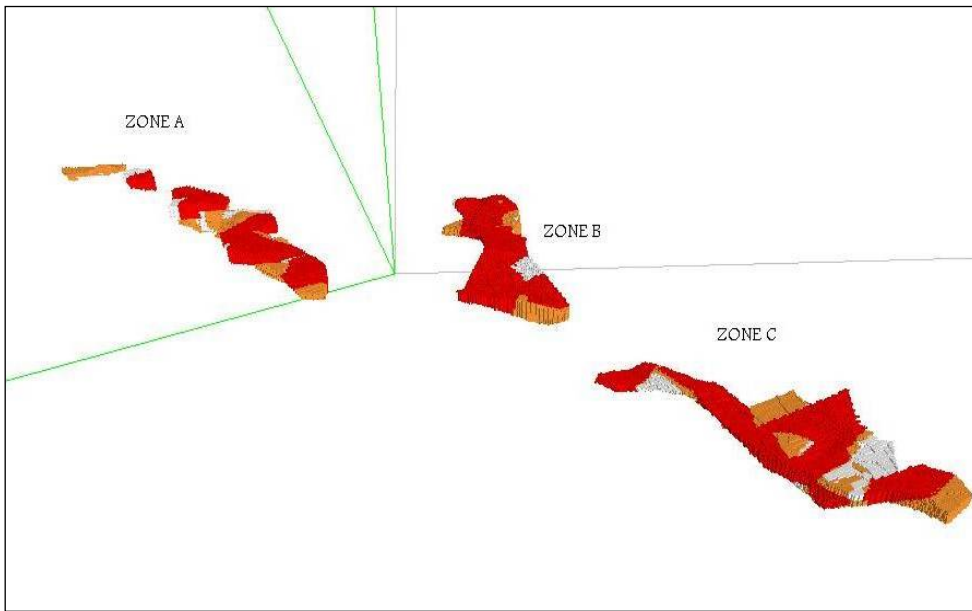
(

	(kg/m <sup>3</sup> )	
Zn<	/	
≤Zn<	/	
≤Zn	/	

A

( )

C B



C B,A

(A)

	/	/	< /	Zn<
	/	/	< /	≤Zn<
	/	/	< /	≤ Zn
	/	/	< /	

(B)

	/	/	< /	Zn<
	/	/	< /	≤Zn<
	/	/	< /	≤ Zn
	/	/	< /	

(C)

	/	/	< /	Zn<
	/	/	< /	≤Zn<
	/	/	< /	≤ Zn
	/	/	< /	

A,B,C

	/	/	< /	Zn<
	/	/	< /	≤Zn<
	/	/	< /	≤ Zn
	/	/	< /	

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5-Mineral industries computing limited, (1998), "Datamine Reference Manuals User Guides and Tutorials", Edition 2.2.