Estella

ID #026

SUMARIZED INDEX CARD

Downloaded from Iberian Evaporite Structure DataBase

GENERAL INFORMATION

Structure type	Evaporite Diapir
Deformed/Undeformed	Deformed
Geological Setting	Basque-Cantabrian Basin, Navarra-Álava trough
Outcropping/buried	Outcropping
Evaporite unit/s name	Keuper facies
Evaporite unit/s age	Carnian-Rhaetian (Upper Triassic)
Evaporite unit/s origin	Marine
Classif. (Hudec and Jackson, 2009)	Thrust piercement
Classif. (Jackson and Talbot, 1986)	Salt roller
Other comments	Alignment of the Salinas del Oro, Anoz, Alloz, Estella, Ollo, Echalecu and Iza along the Pamplona fault. Estella and Alloz diapirs are connected by buried salt anticlines in one salt body (see Pinto et al., 2000, 2005).

STRATIGRAPHY AND STRUCTURE

Evaporite unit/s composition	Gypsum-Halite-Anhydrite-Claystone-Ophites
Post-evaporite and pre-kinematic unit/s	Jurassic (dolostones, marls and oolitic limestones)
Syn-kinematic unit/s	Upper Weald facies / Aptian-middle Albian (Urgonian Group; Punta del Bakio Unit) / Miocene (shales, sandstones and conglomerates)
Post-kinematic unit/s (or post-evaporite desposition when undeformed)	Quaternary (alluvial and colluvial detrital deposits)
Age of evaporite flow or deformation (when deformed)	Burdigalian to Tortonian and Lower Cretaceous
Flow or deforming triggering mechanisms	Thrust sheet with a southward motion
Halokinetic structures	Progressive unconformities / normal and thrust faults / joints / thickness variations

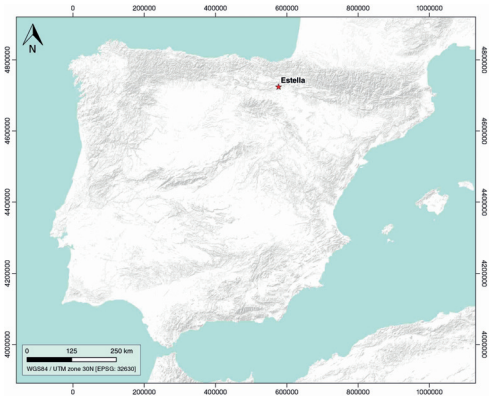
SUB-SURFACE DATA AVAILABILITY

Available borehole data	Yes
Available seismic data	Yes

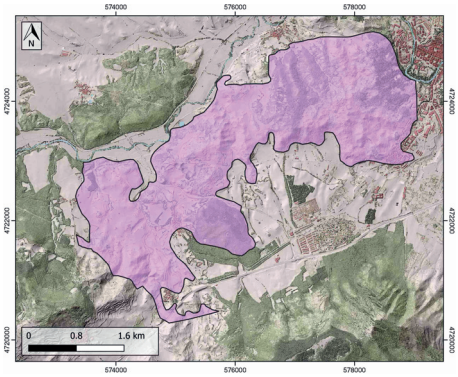
MAIN REFERENCES

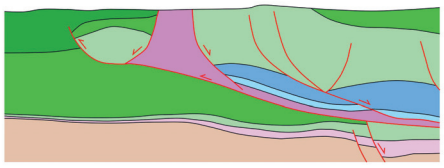
Stratigraphy	López-Horgue et al. (1999)
Regional Stratigraphy	Pedrera et al. (2017)
Structure	Pflug (1973)
Regional Structure	Cámara (2020)
Gravimetry	Pinto et al. (2000)
Petrophysics/Paleomagnetics	Llamas et al. (2017)

LOCATION

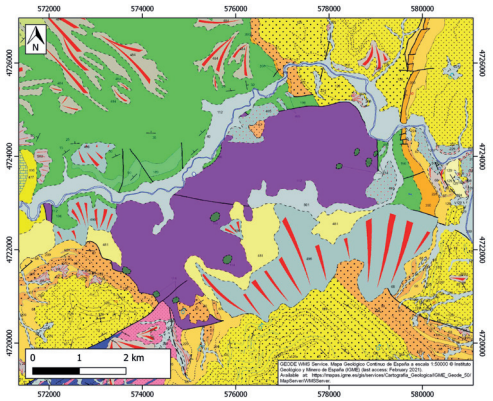


SHAPE AND SUB-SURFACE STRUCTURE





GEOLOGY (GEODE IGME)



IBERIAN EVAPORITE STRUCTURE DATABASE