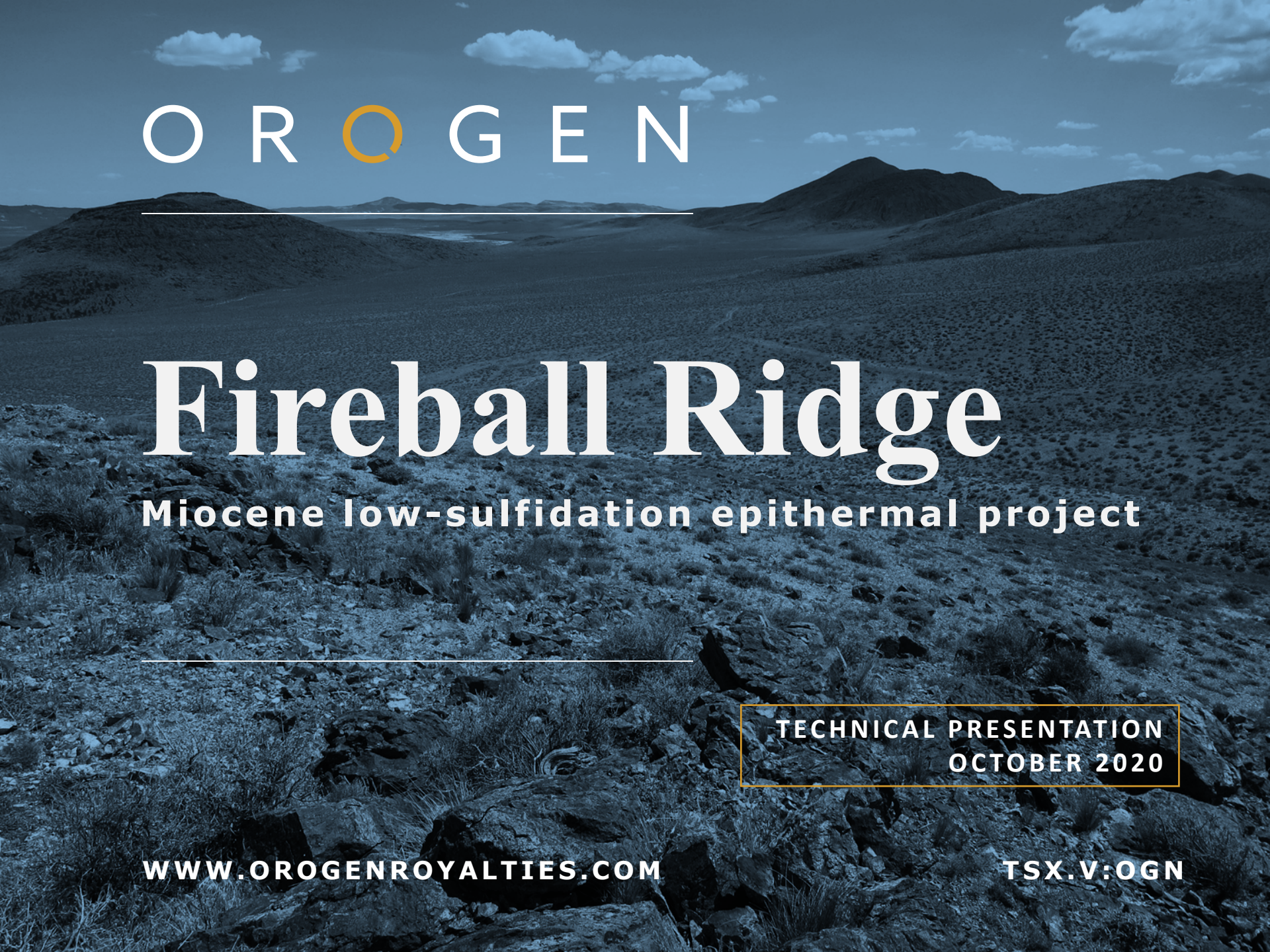
OROGEN
Fireball Ridge
Miocene low-sulfidation epithermal project
TECHNICAL PRESENTATION
OCTOBER 2020
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Forward Looking Information

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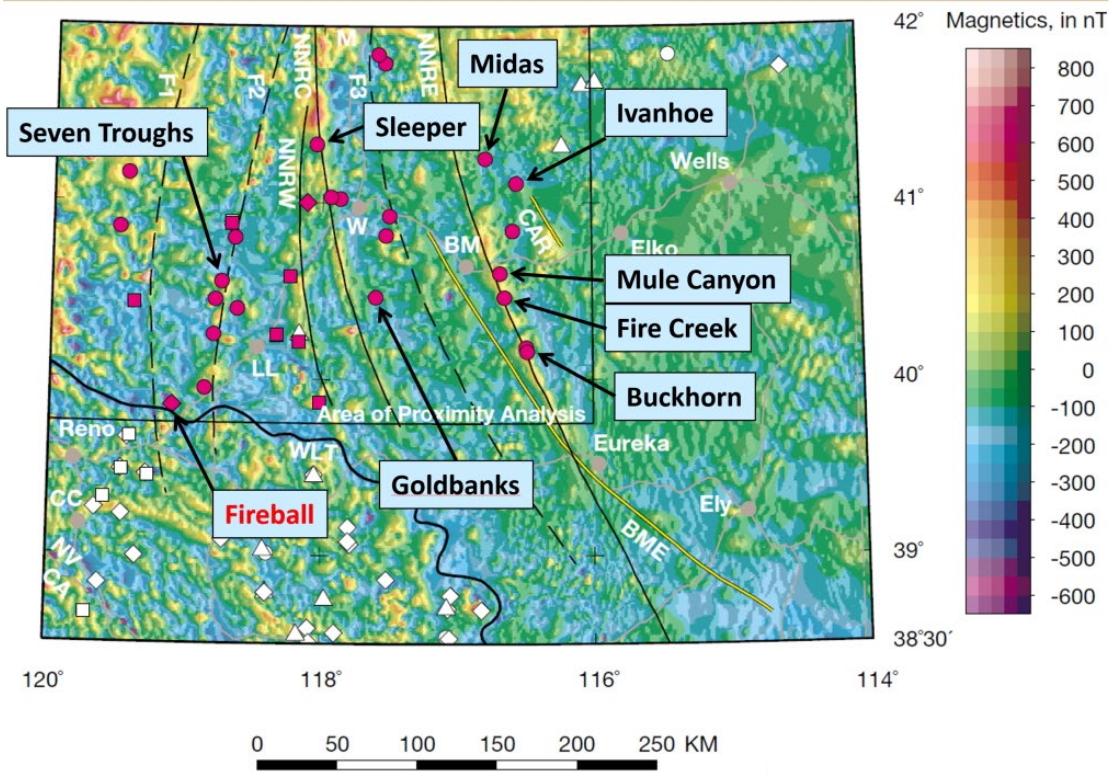
Although the Company believes the expectations expressed in such forward looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results may differ materially from those in the forward looking statements. Factors that could cause the actual results to differ materially from those in forward looking statements include market prices, exploitation and exploration successes, and continued availability of capital and financing, and general economic, market or business conditions. Investors are cautioned that any such statements are not guarantees of future performance and actual results or developments may differ materially from those projected in the forward looking statements. Forward looking statements are based on the beliefs, estimates and opinions of the Company's management on the date the statements are made. Except as required by securities laws, the Company undertakes no obligation to update these forward looking statements in the event that management's beliefs, estimates or opinions, or other factors, should change.

Project Summary

- Low sulfidation Miocene epithermal system within a rift zone with bimodal volcanism
- Historic drilled out gold cells occur in multiple pods along a in stepover zones of a 6 km long mineralized fault system
  - Historic drill intercepts up to 30’ at 11.9 ppm Au
- Extensional stepover below drilled out gold cell has not been tested by drilling
- Potentially similar Miocene deposits:
  - Midas
  - Goldbanks
  - Fire Creek
  - Mule Canyon
  - Sleeper
  - Ivanhoe
- Project located just North of Interstate Highway 80, an hour east of Reno on a combination of BLM land and private parcels



Magnetic map from Ponce and Glenn (2002) showing rift related epithermal gold systems

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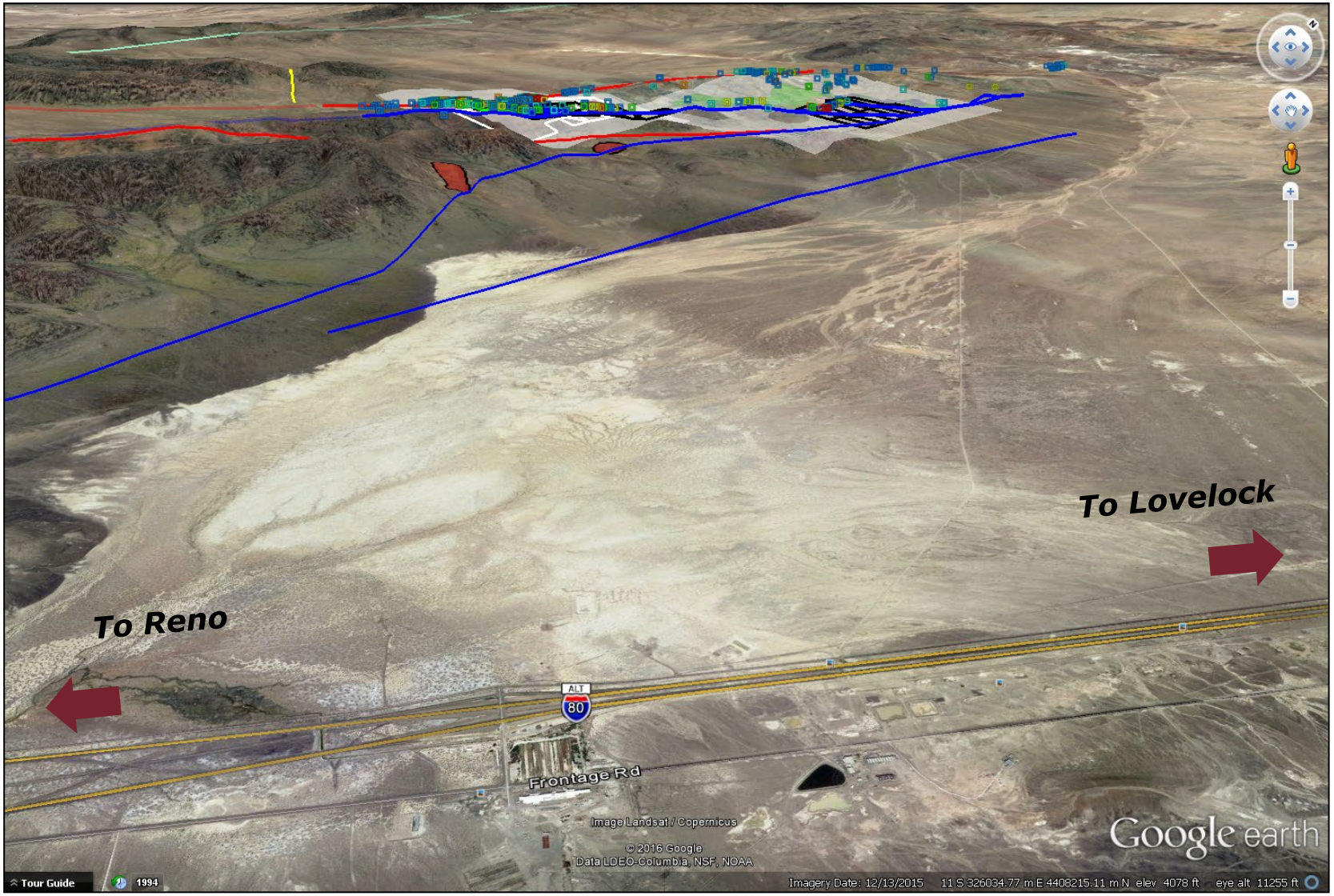
History

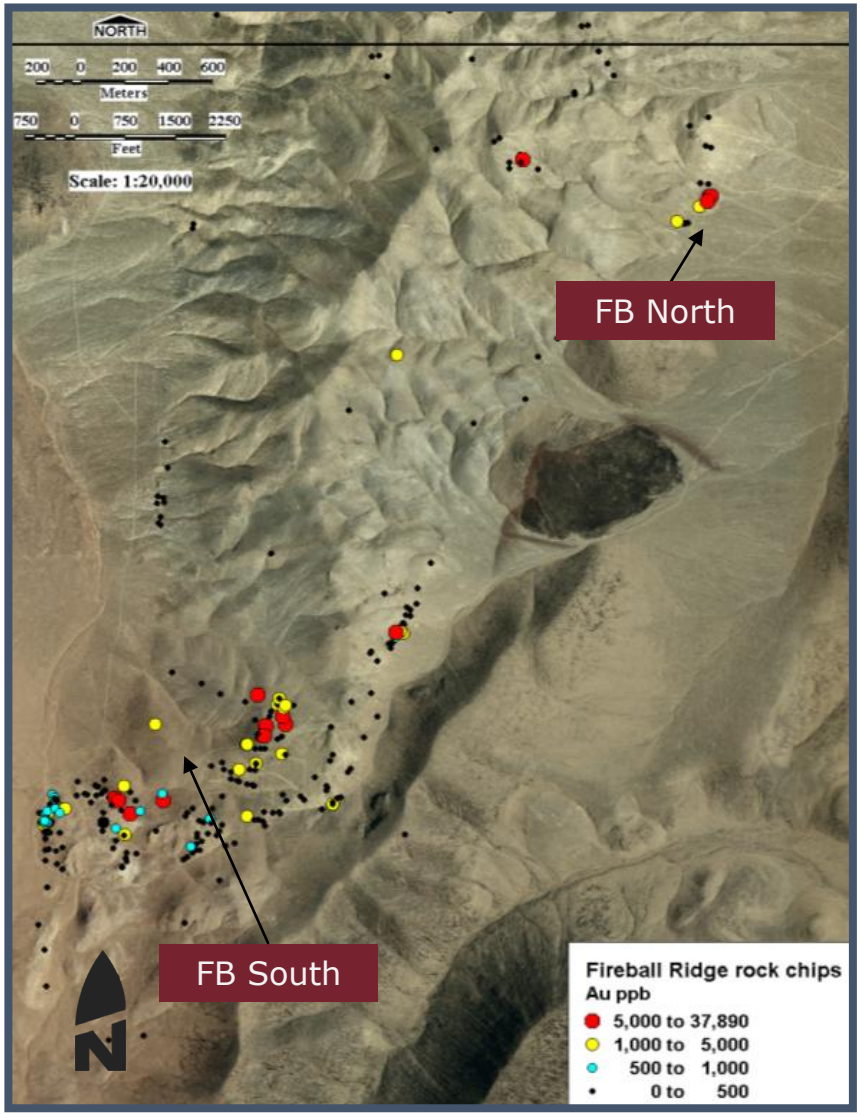
At Fireball, roughly 190 holes have been drilled, almost all of them relatively shallow. Interestingly however, a quick review of this drilling in relationship to a cymoid loop model shows that a number of structural targets remain untested, even at the shallow depths at which this drilling was concentrated. This is true at the northern mineralized zone, where several strands of a probable cymoid-loop system remain open-ended or untested, as well as in the southern area, where a high-grade vein strand intersected by two holes remains open-ended to the north, south, and at depth. This illustrates the difference that a good structural model can make in drilling for high-grade vein systems. A review of the full length of the Fireball Ridge fault system reveals additional locations where fault steps and cymoid loops remain untested by drilling. One of these loops may occur near the north end of the explored structure, where the range front shifts to a north-south trend, possibly signaling the presence of a more significant cross structure.

In summary, previous exploration at Fireball Ridge has defined a number of low to moderate-grade gold occurrences along a 6-km-long fault/vein system. Previous explorers were aware of the volcanic-hosted epithermal character of mineralization, but most efforts were focused on near-surface resources and the structural model had not been fully developed. Very few holes were drilled to depths (>600 ft) necessary to test for a deeper boiling horizon, and the few that were drilled to that depth appear to have missed their target because hole placement did not account for the expected changes in strike and dip of cymoid loop structures with depth. By leveraging the recent knowledge of structural controls gained from northern Nevada vein systems of similar age, it should be possible to effectively test for deeper boiling horizons that could host high-grade gold mineralization. Electrical surveys may also be effective for targeting such systems based on recent experience at Fire Creek.

Brady Hotsprings – Nightingale Exit



Rock Chips Within AOI



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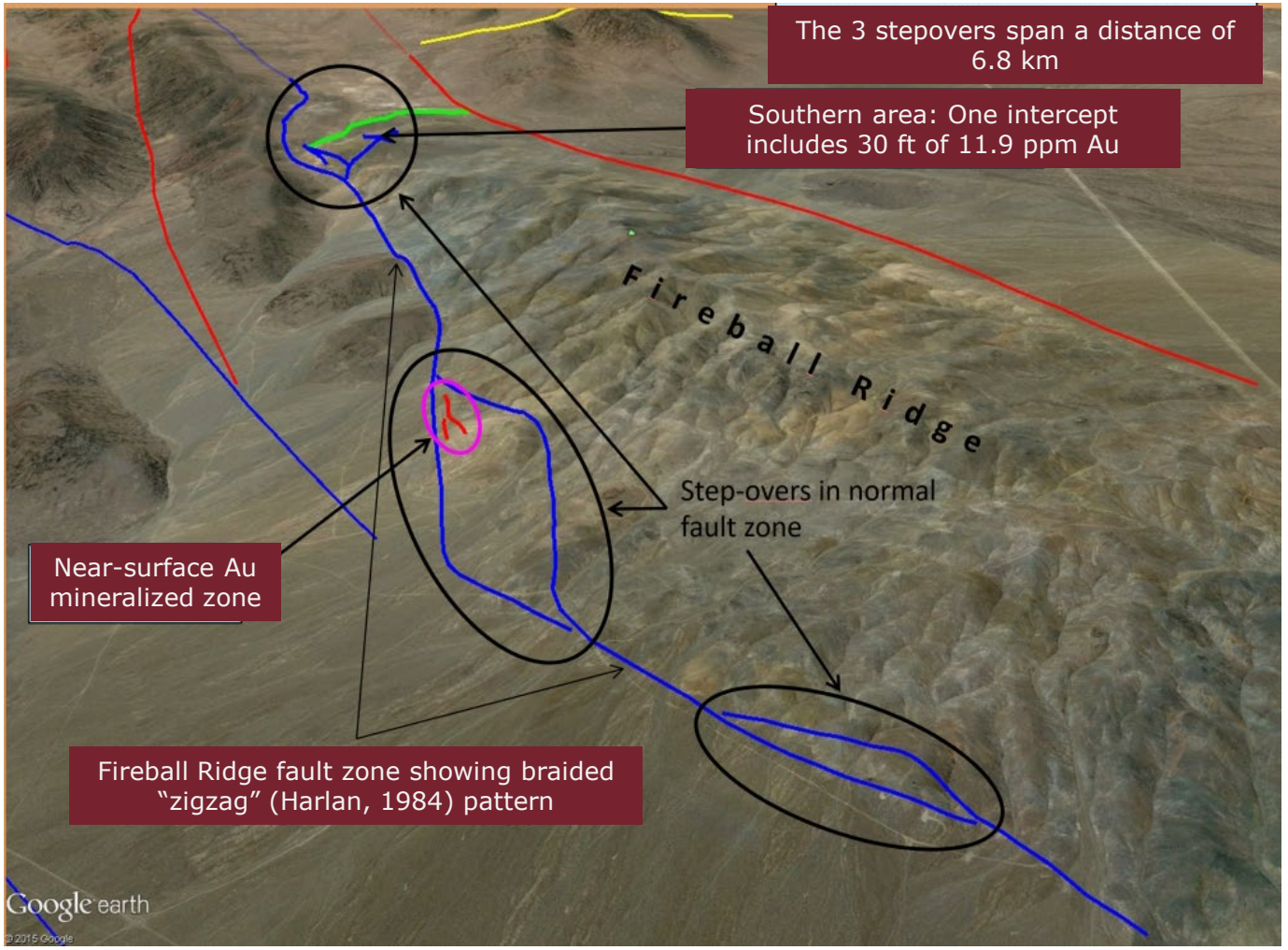
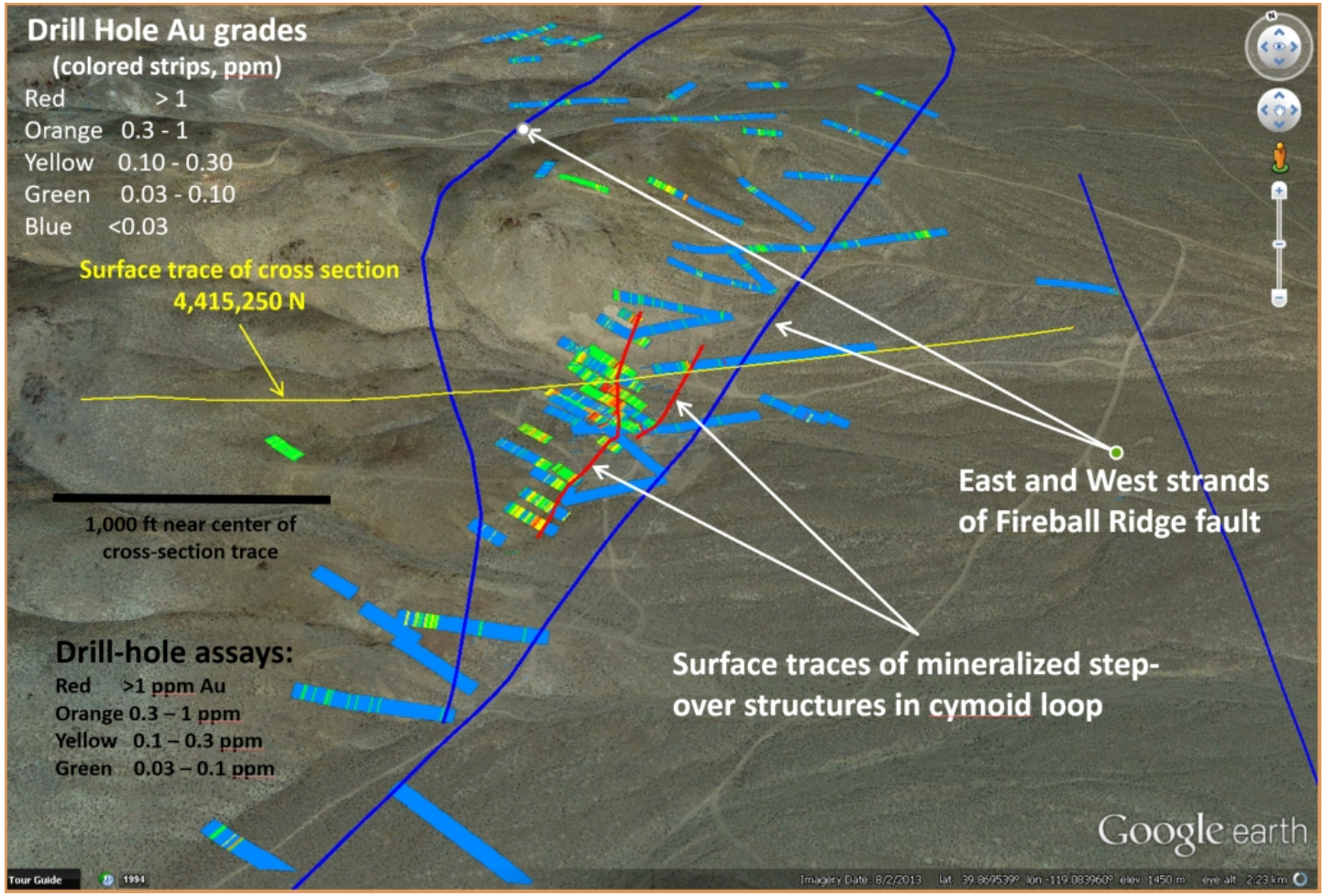
Structural Framework of Fireball Ridge

LATERAL STEPOVERS IN A NORMAL FAULT ZONE



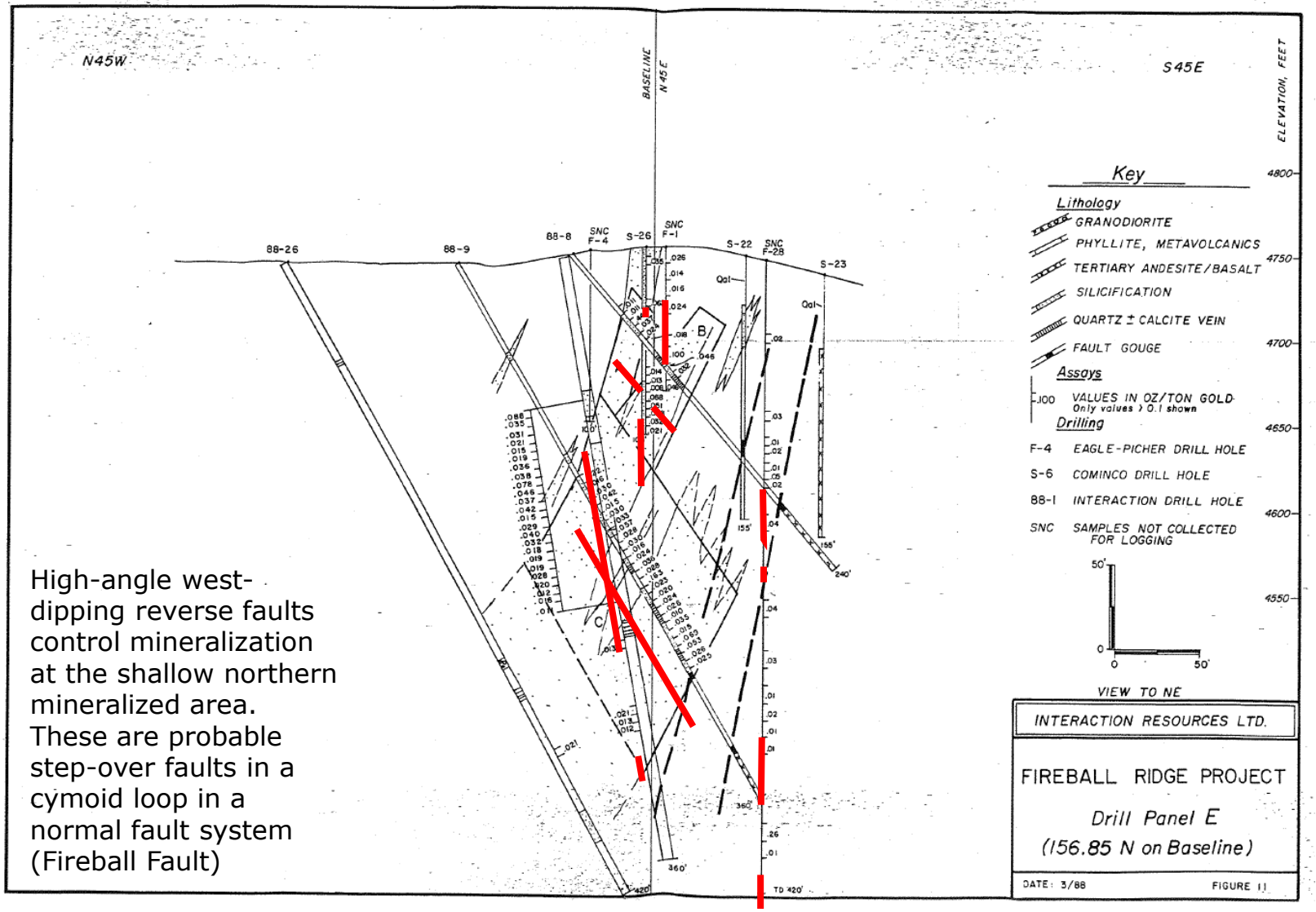
Near Surface Gold Cell In Structural Stepover

OBLIQUE VIEW LOOKING NORTH AT DRILLED GOLD ZONE



Historic Drill Section

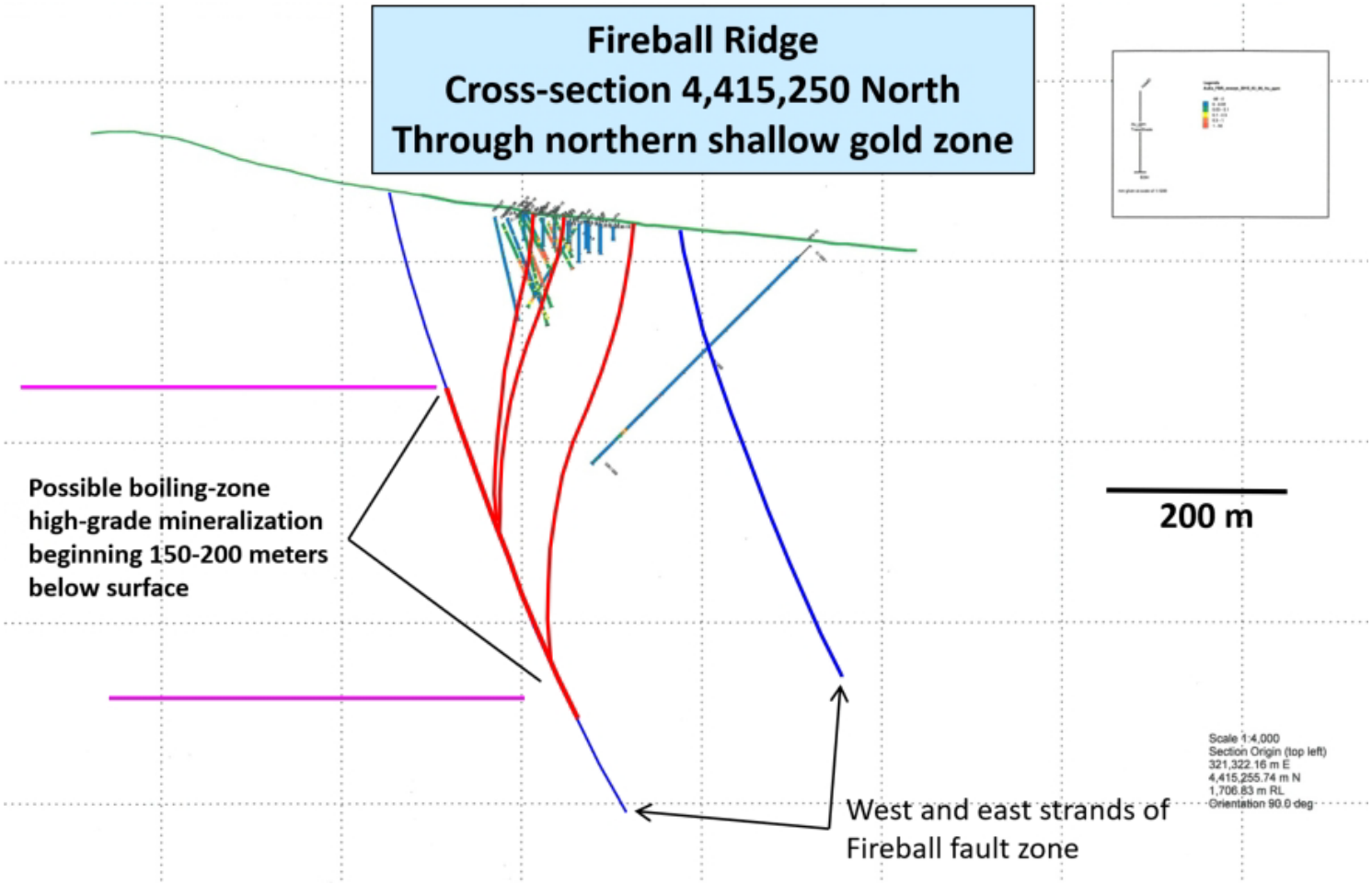
Controls on mineralization identified as west dipping



High-angle west-dipping reverse faults control mineralization at the shallow northern mineralized area. These are probable step-over faults in a cymoid loop in a normal fault system (Fireball Fault)

New Structural Model

PRIOR DRILLING DID NOT IDENTIFY STEPOVER IN NORMAL FAULT ZONE AND WAS CUT SHORT OF TARGET



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Similar Gold Zoning at Midas

Depth to the top of high-grade mineralization at Midas is more than 500 feet for most of the productive veins, in spite of the fact that limited underground production occurred starting at the surface

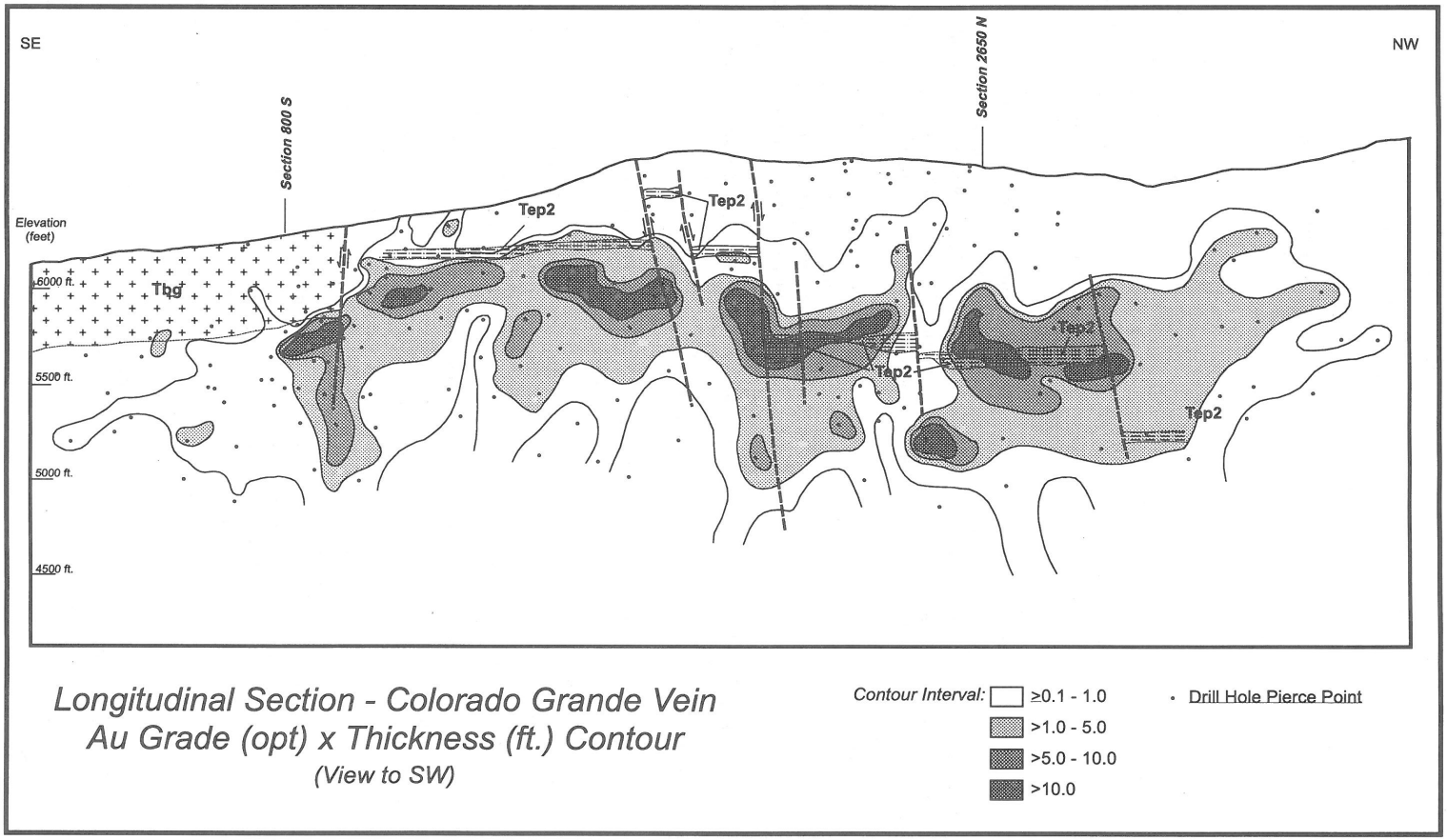

FIGURE 7. Gold and silver grade x thickness contour longitudinal sections of the Colorado Grande vein. Note relationship of higher-grade mineralization to the sediments of the middle member (Tep2) of the Elko Prince formation (hanging wall of vein) and to the finely crystalline gabbro (Tbg1) on south end of vein. Also note barren drill hole pierce points across the trace of the vein above ore grade mineralization.

Goldstrand and Schmidt, 2000, GSN volumes

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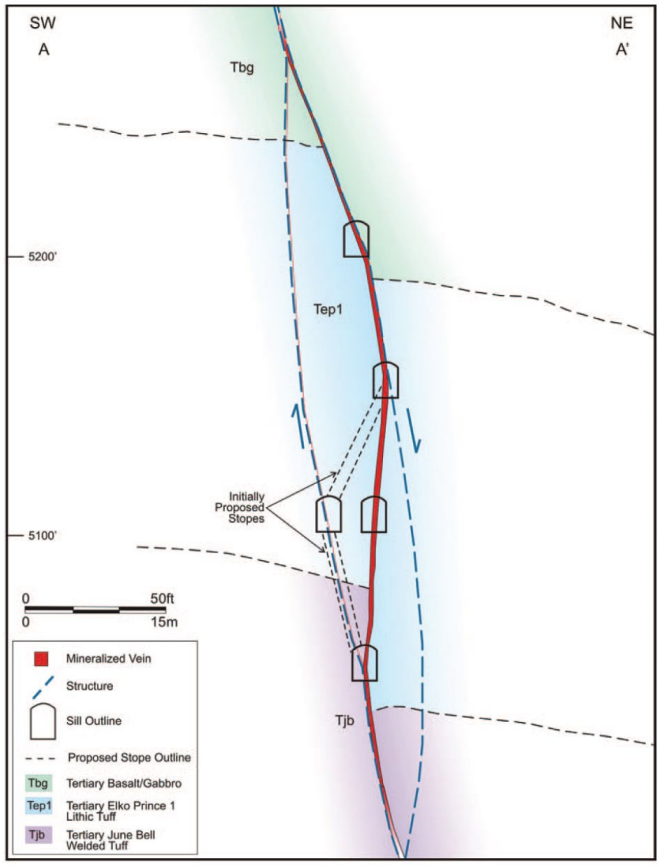
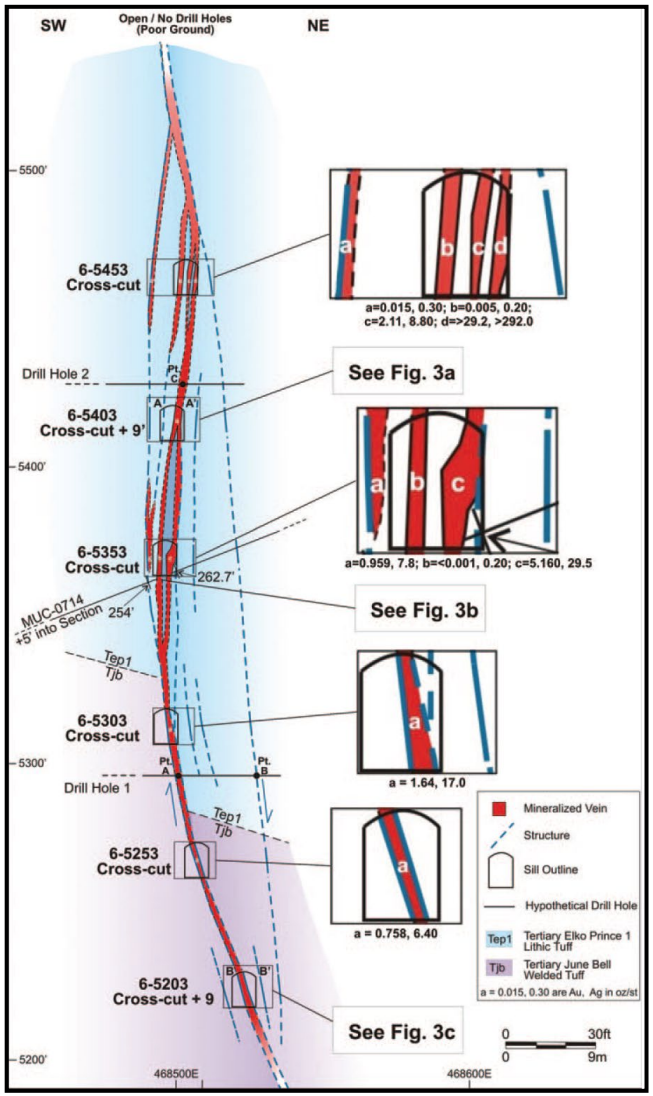
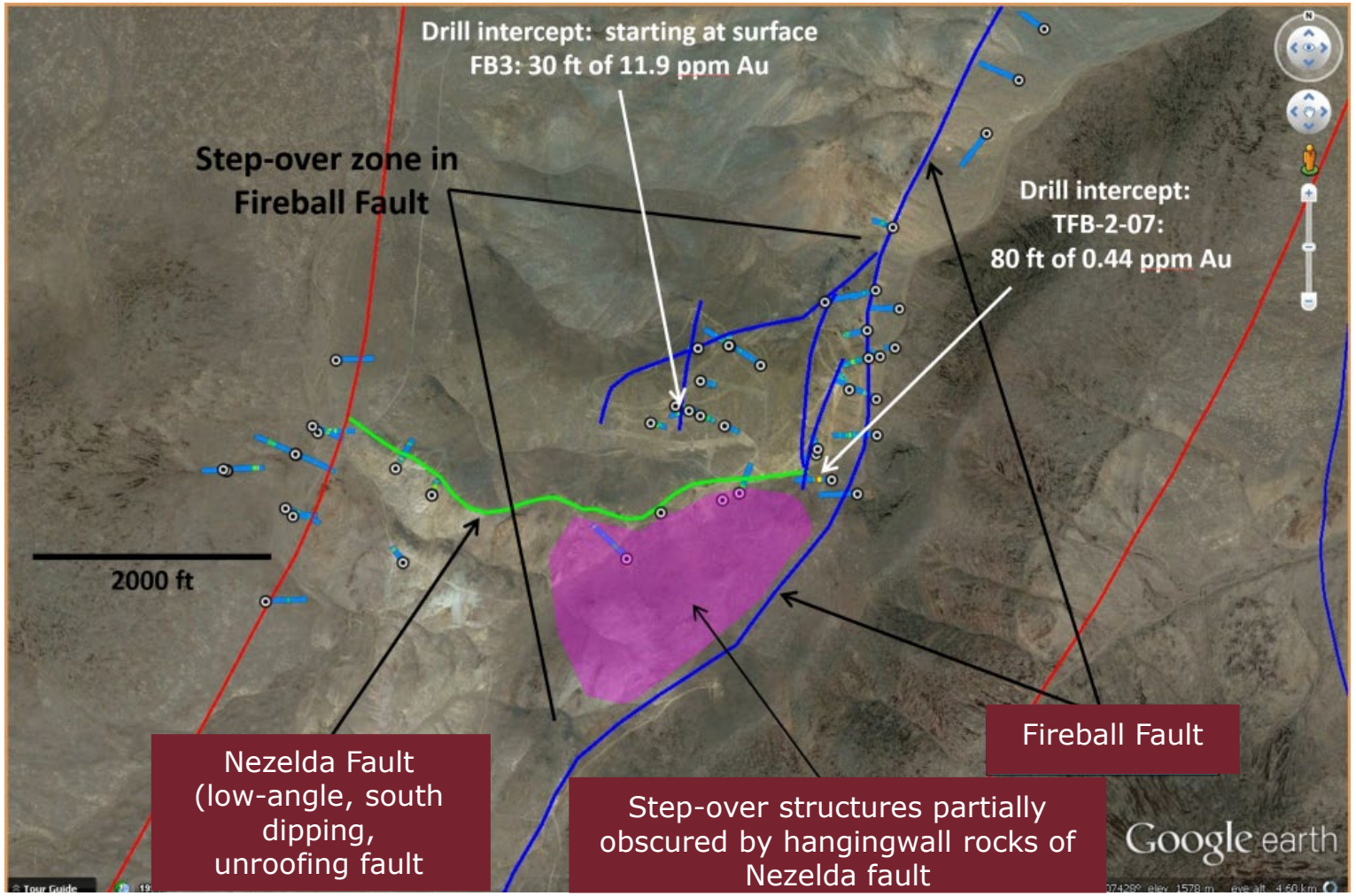
Similar Structural Controls at Midas

Two examples of cymoid loops in the high-grade veins at Midas (Marma and Vance, 2010 GSN volumes). Note the steep cross-vein dips in the direction opposite the dip of the main structure





Southern Step-over in Fireball Fault Zone



Mineralization may be obscured by hangingwall cover

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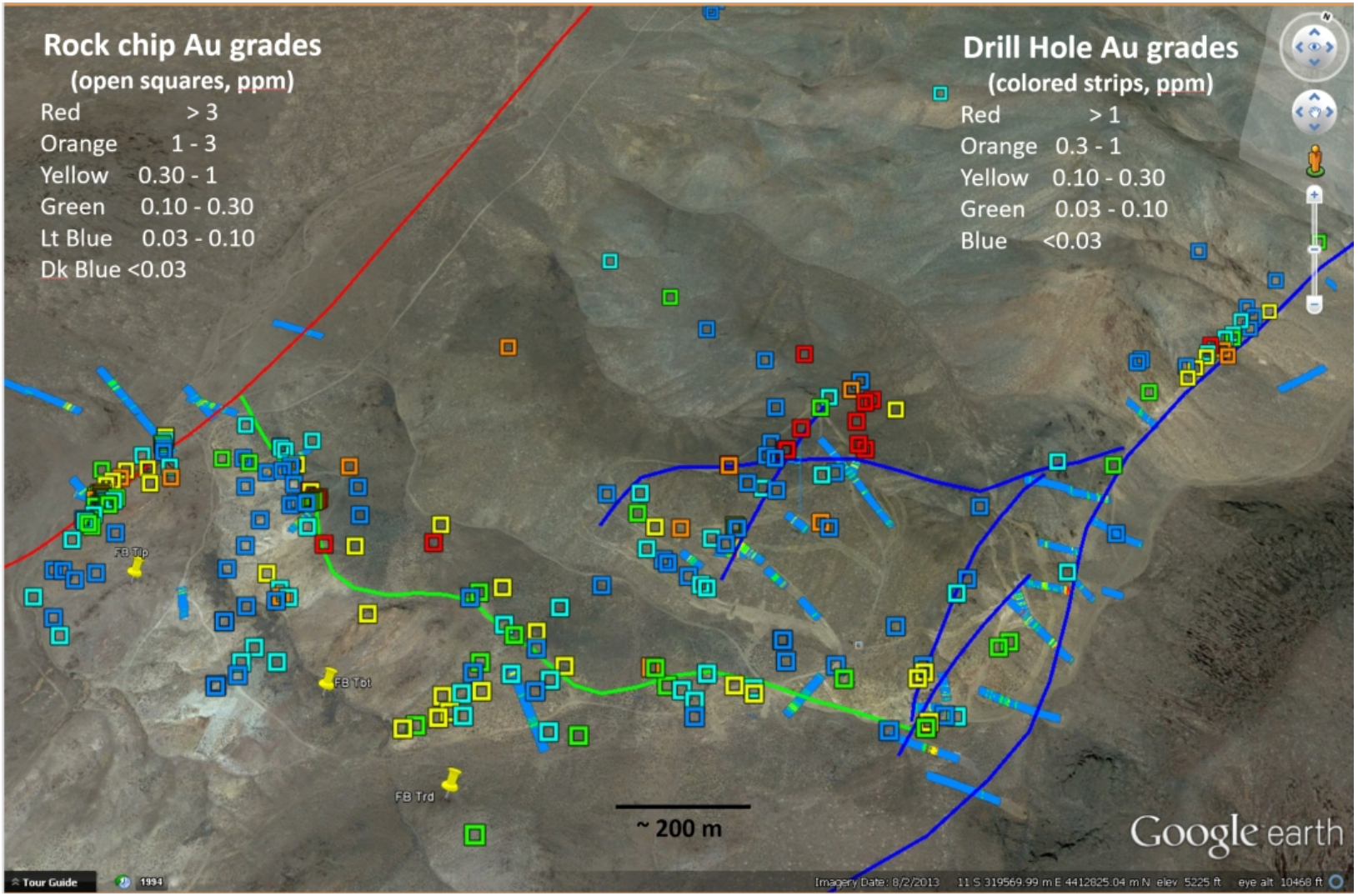
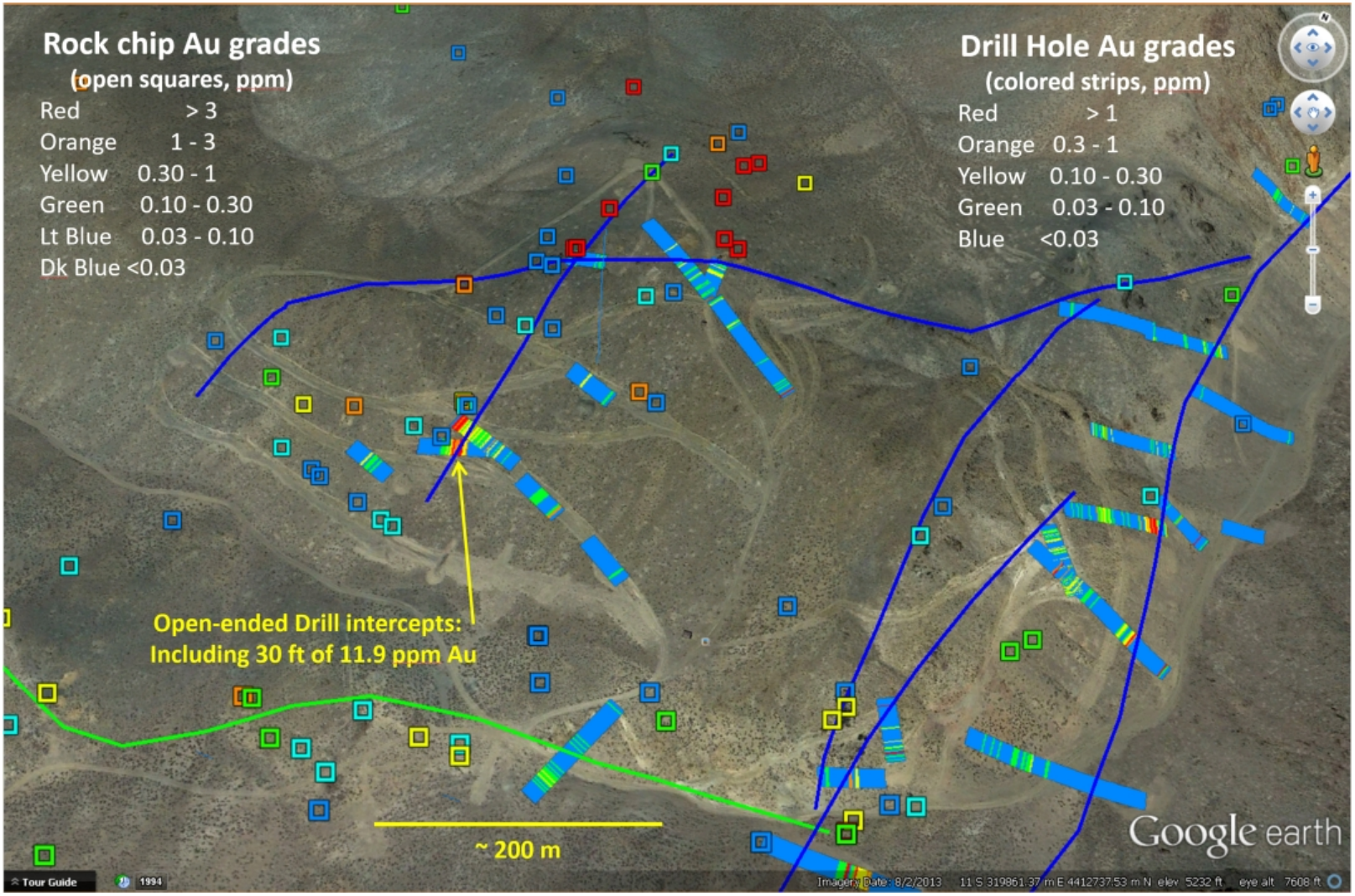
Southern Step-over in Fireball Fault Zone

Gold at surface exceeds 3 g/t with visible gold found in historic workings

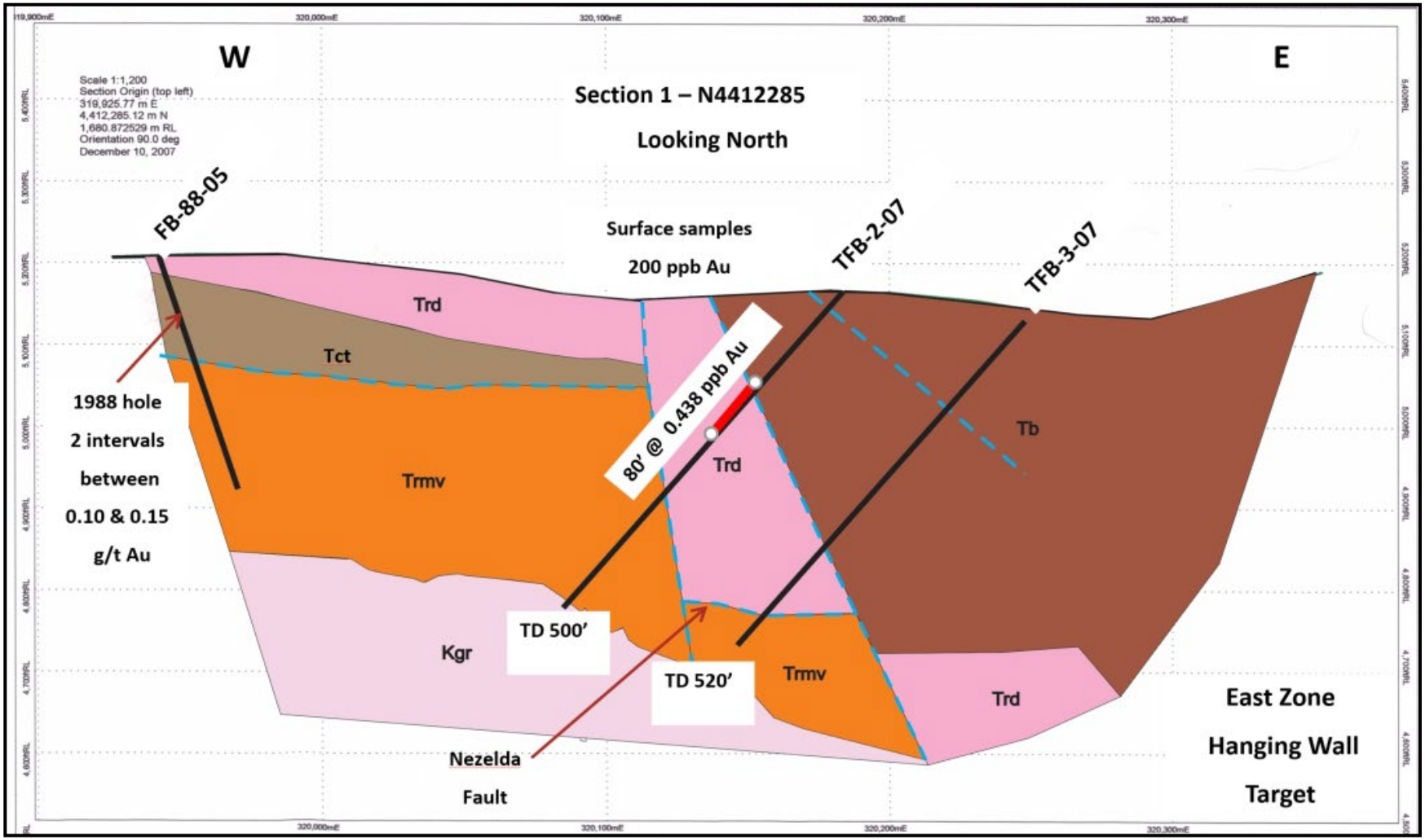


Southern Step-over in Fireball Fault Zone

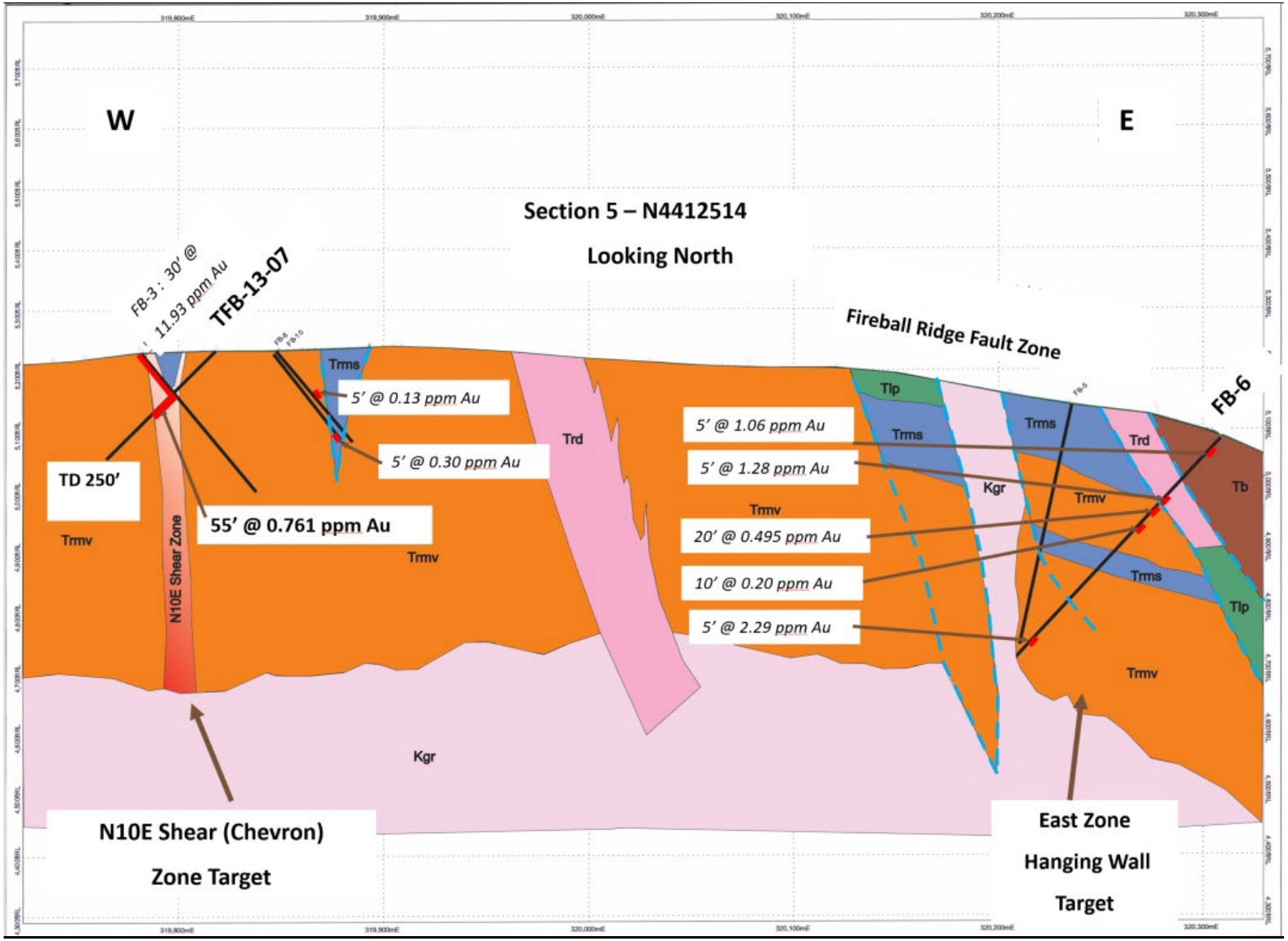
Multiple shallow historic drill intercepts have not been offset including 30 feet of 11.9 g/t Au



Sections Through Historic Drilling



Sections Through Historic Drilling



Conclusions

- Fireball Ridge hosts a rift related low sulfidation epithermal gold system
- Complex structure pattern with vertical and horizontal stepovers control high grade shoots of gold mineralization
- Modern structural framework has defined a structural stepover in a normal fault zone that was previously misunderstood and has not been drill tested
- The project is located on easily permittable BLM and private land with an existing road network
- Project could be drilled rapidly and is accessible year round

Additional Fireball Geology
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Geophysics Figures

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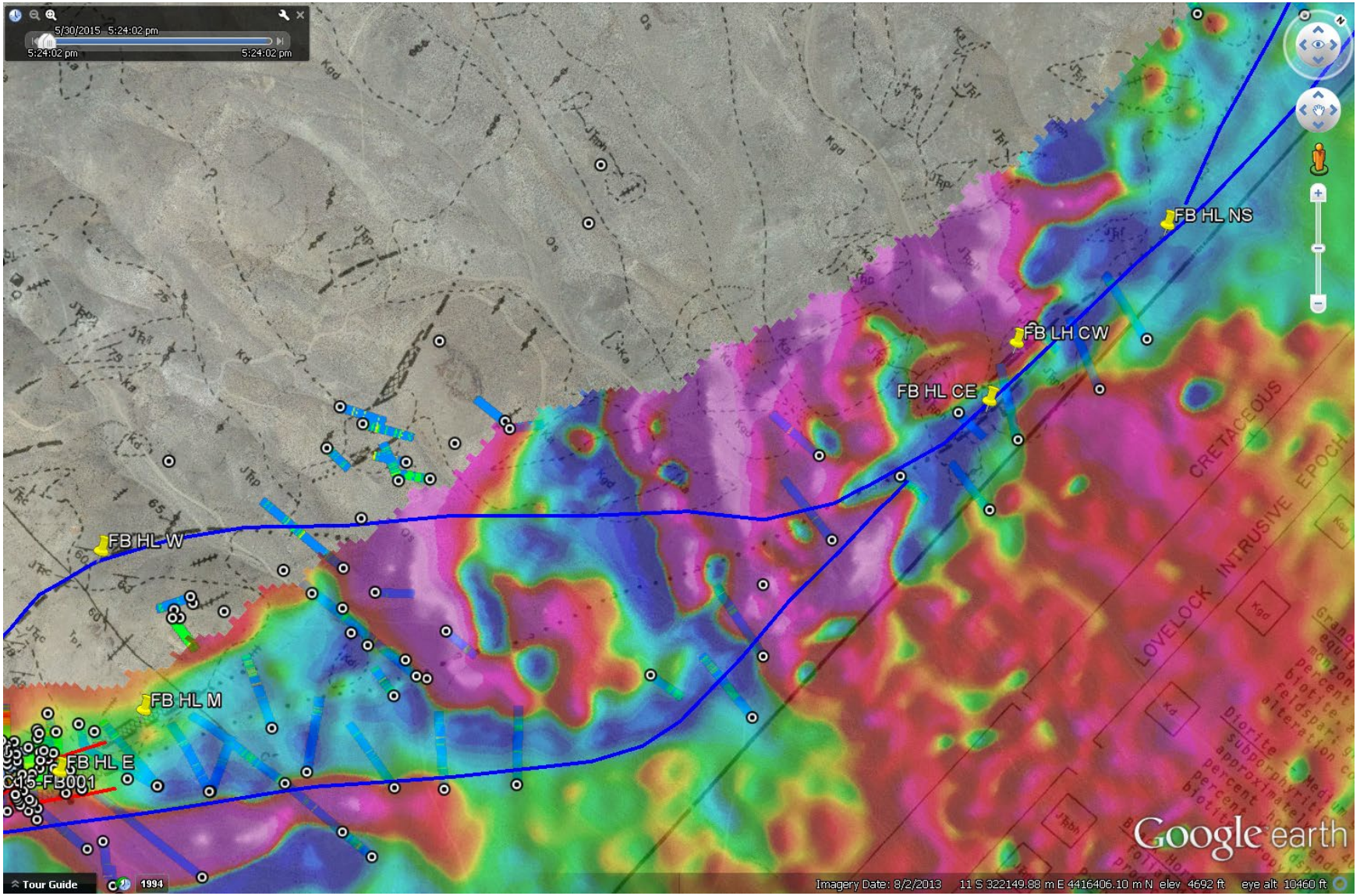
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