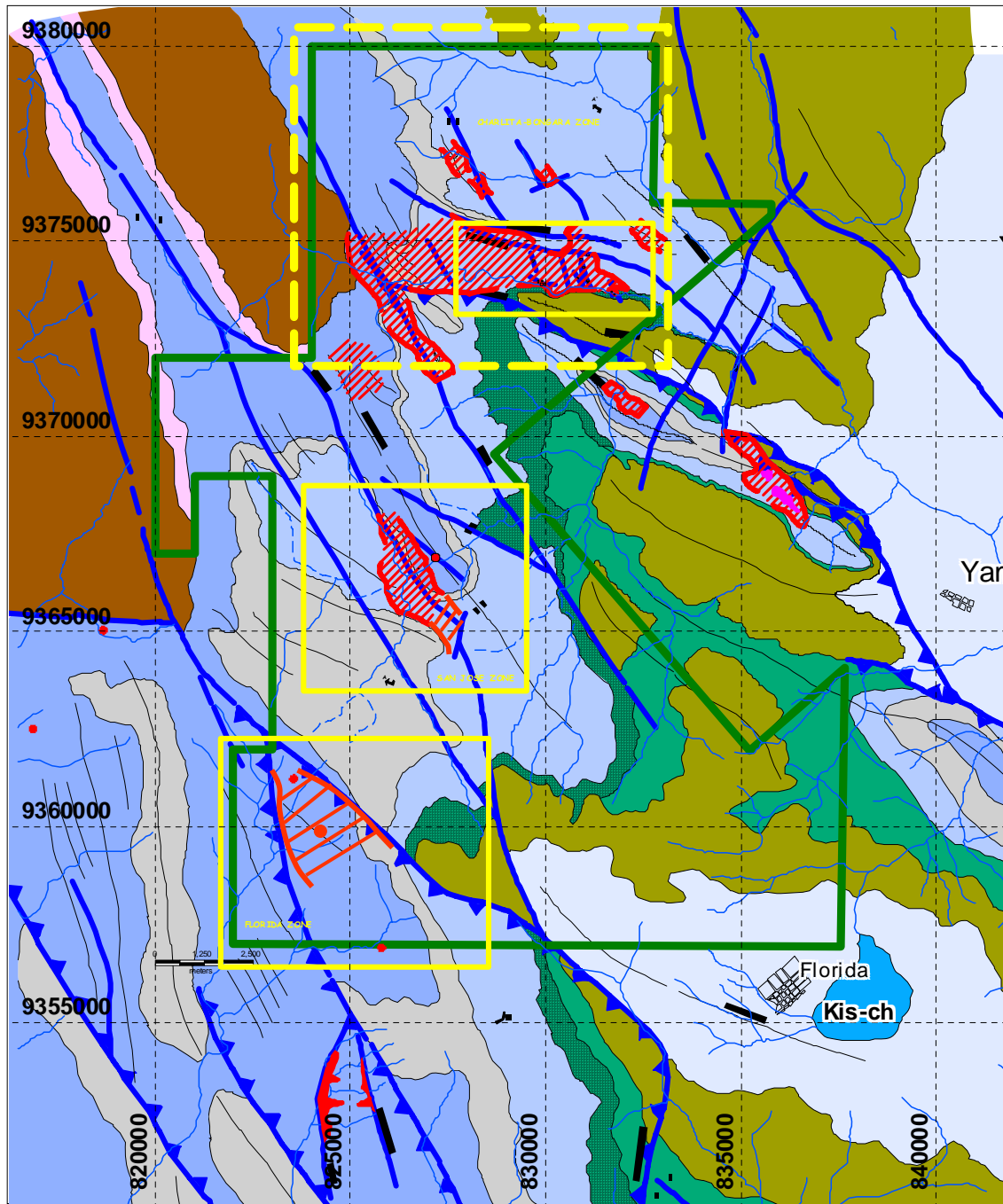


4 Projects-Prospects

- Cristal
- Alto Cristal
- San Jose
- Florida



STRATIGRAPHY

Kis-ch	Chonta-Chulec Formation
Ki-g	Goyllarisquizga Formation
Js-s	Sarayaquillo Formation
Ji-g	Dolomitization Condorsinga Formation
Ji-a	Aramachay Formation
TR-ch	Chambara Formation
Ps-m	Mitu Group
Po	Marañon Complex

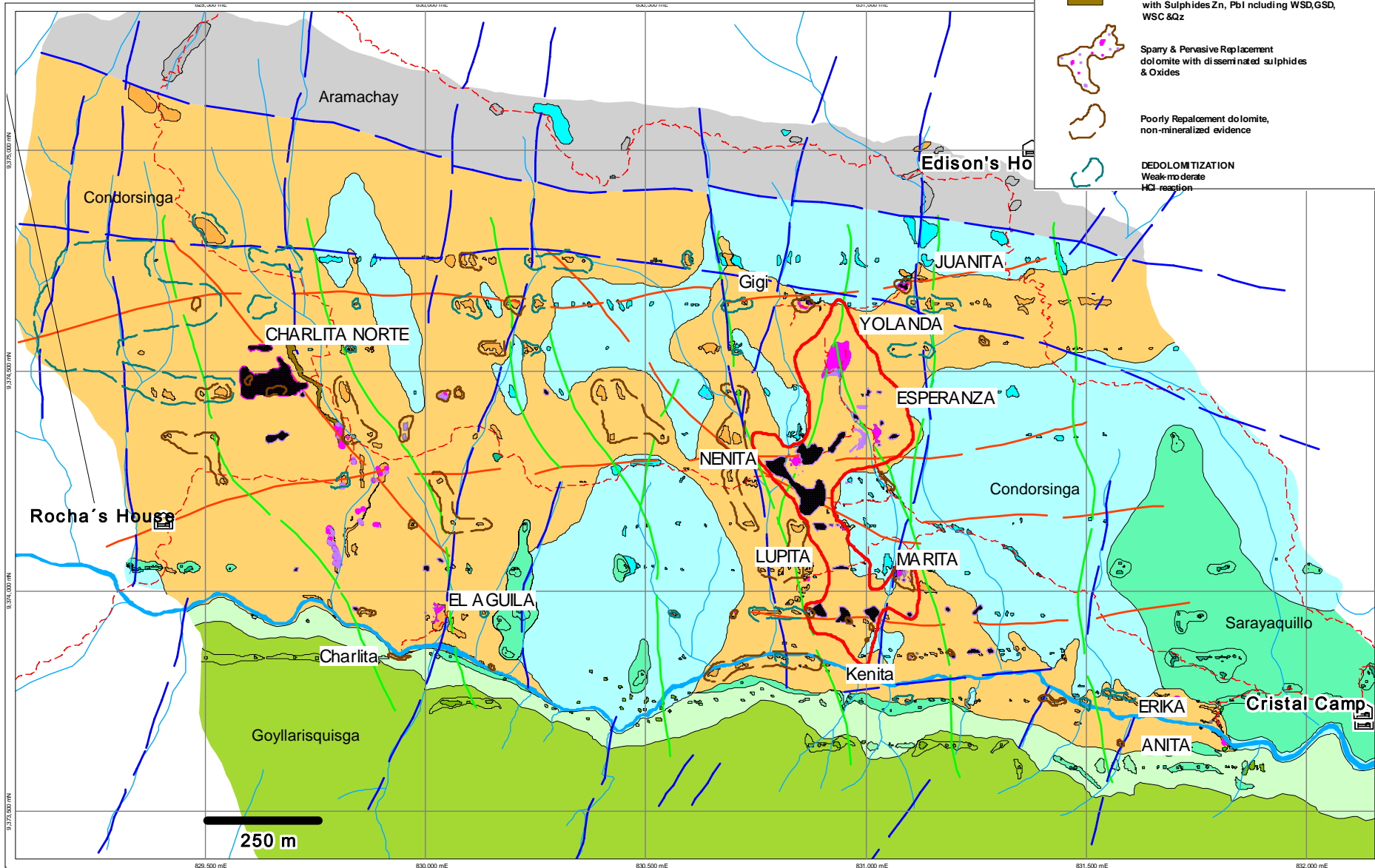
Pucará
Group



Cristal Geology

MINERALIZATION

- Zn oxides In situ
- Zn oxides In Loose Blocks
- Fe Oxides in Situ
- Fe Oxides in loose blocks
- Pervasive Replacement Hydrothermal dolomite with Sulphides Zn, Pb including WSD, GSD, WSC & Qz
- Sparry & Pervasive Replacement dolomite with disseminated sulphides & Oxides
- Poorly Replacement dolomite, non-mineralized evidence
- DEDOLOMITIZATION
Weak to moderate
HCl reaction



STRATIGRAPHIC COLUMN CRISTAL ZONE

UNITS	LITHOLOGY	DESCRIPTION
Condorsinga	0	Dolomite with +/- fossils & pseudomorphs:FeOx in veinlets + calcite veinlets
	100	Dolomite medium CrBx with FeOx;calcite veinlets, bt in veinlets
	200	Dolomite medium massive stiolites in bt veinlets
		Coarse to medium veins/veinlets WSD-GSD disseminated py & veinlets
Aramachay	300	Laminated black limestone
		Laminated black limestone interbedded with pseudomorphic gypsum; py+sph in veinlets & disseminated
	400	Interbedded black laminated limestone bt with gray wackestone limestone;fossils
	500	Some pyritic levels in veinlets/disseminated & sph disseminated and veinlets submillimetric wides
	600	Limestone, wack to packstone, pelets fossils;bt
Chambara 1	600	Fine chertic limestone, fossils
	700	Coarse to medium dolostone;moderate dedolomitization
Chambara 2	800	Coarse dolostone, fossils; WSD-GSD
		Medium dolostone & limestone
		Coarse dolostone;fossils;WSD-GSD; veinlets
		Laminated to fine limestone; fossils++
Chambara 3		DolosCoarse dolostone, fossils WSD-GSD,fine diss py
		Medium to fine limestone; fossils
Gpo. Mitu		Limestone, mudstone
		Clastics, gypsum, yeso, reddish conglomerates

bt=bitumen
sph=sphalerite

SUMMARY LOG

Hole ID: **CR-13-08**
Location: **ESPERANZA ESTE**

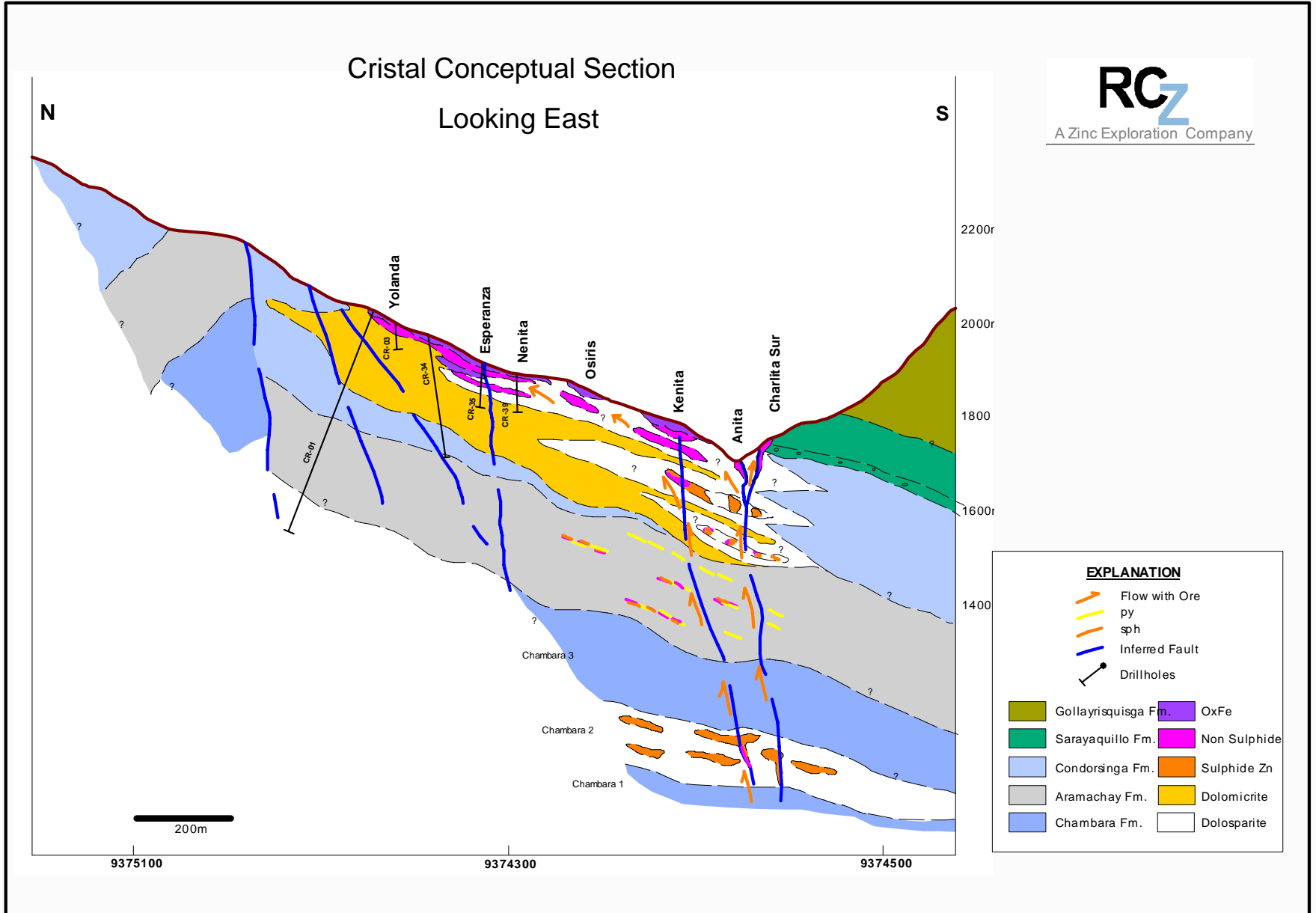
Driller: Geotecnia	Elevation: 1920
Machine: Diamec 262 II	Azimuth: N270°E
Start Date: 05-Jul-08	Dip: -60
End Date: 07-Jun-08	Depth: 56.9
Eastng: 831040	Geologist: F.Abarca
Northng: 8374356	Laboratory: ALS-CHEMEX

Downhole Survey				
Depth	Az	Dip	Diameter	From To
0	289.1	-62	HQ	0 56.9

Lithology	Breccia	Alteration	WSD		Mineralization	Style
			W1	W2		
Soil	SOIL	Crack Breccia	Nothing	<5% WSD	Pyrite	Pervasive Replacement
Limestone	LMST	Masari Breccia	DDOL	5-10% WSD	Marcasite	Veinlets
Mudstone	MDST	Rubble Breccia	DCA	10-20% WSD	Sphalerite	Disseminated
Wackstone	WKST	Rock Matrix Breccia	WSD	20-35% WSD	Galena	Matrix
Packstone	PKST	Colapae Breccia	GSD	>35% WSD	Reddish Nonsulfides	Masive
Dolostone	DLST	Karstic Breccia	WSC	Intensity	White Nonsulfides	Fractures
Dolospirite	DS	Fault	Wsl	Very Weak	Iron Oxide	Saddle
Dolomicrosparite	DMS	Bedding	DS	Weak	W	GOE
Dolomitic	DM	Brecciated	OX	Moderate	M	HM
Karst	KARST	Fractures / Join	FR	Strong	S	LIM
Clay sediments	LIM	Shear Zone	SH	Very Strong	VS	JAR
Gossan	GO	Panize	PN	S		Disseminated & Veins

Depth (m)	Lithology	Zn	Pb	Ag	Fe	Alteración				Mineralization				Sample				Lithology												
		ppm	ppm	ppm	%	Code	Intensity	Style	Sulfides	Style	Non sulfides	Style	FXOX	Zinc Zap	Sample ID	From	To	Length	Comments											
1	SOIL					OX	M	MTX	--	--	--	--	LIM	--					suelos limoarcillosos marrones, tintes oxidados. silice y dolomita granular (mm)											
2																														
3																														
4																														
5	GO					OX	S	MTX/CLT	--	--	--	--	LIM GOE HM	--					Gossan Limoarcilloso palido marron intercalado con gossan de Fe compacto : LIM, GOE y HM en proporciones variables											
6																														
7																														
8																														
9		30100	3820	28.5	50																				200713152	8.00	9.65	1.65		
10																														
11																														
12																														
13																														
14		32500	14700	3.2	47.8									200713153	12.90	14.40	1.5													
15																														
16		33200	17000	9.3	47.2									200713154	14.40	16.35	1.95													
17																														
18	LIM	39100	5760	6.5	44.6		M	MTX	--	--	--	--	GOE	--	200713156	16.35	18.00	1.65	Limoarcillas palido marron tintes amarillentos, fragmentos de DS beige con puntos de GOE											
19	DS	176500	170	15.3	6.73	DOL DDOL OX	S W W	PV MTX SPT	--	--	R-NS ZN	MTX	GOE	M	200713157	18.00	18.95	0.95	DS CG-MG beige tintes oxidados, VLT FXOX mm, WSD <3cm (W1), presencia de estiolitas											
20		103500	80	11.2	6.22										200713158	18.95	19.85	0.90												
21		76600	122	1.7	10.85										200713159	19.85	21.50	1.65												
22																														
23	LIM	278000	296	6.5	21.2	OX	M	MTX	--	--	R-NS ZN	MTX	GOE	S	200713161	21.50	23.10	1.60	Limoarcillas marrones, con tintes amarillentos, fragmentos de DS MG con puntos de GOE											
24		362000	955	3	13.05										200713162	23.10	24.30	1.20												
25		343000	569	1.5	4.53										200713163	24.30	25.35	1.05												
26		198000	808	2.1	20.2										200713164	25.35	26.70	1.35												
27	DMS	83300	128	0.6	2.7	DOL	S	PV	--	--	R-NS ZN	MTX	--	W	200713165	26.70	27.40	0.70	DMS FG beige, fracturada en MTX limosa pardo marron, pirolusita en fracturas.											
28																														
29	DS	6160	30	0.2	3.39	DOL DDOL OX	S W W	PV MTX SPT/BLB	--	--	R-NS ZN	TZ	LIM GOE	VW	200713166	27.40	28.80	1.40	DS MG beige con tintes oxidados, restos de vivavos, pseudomorfos & VLT de calcita<0.4cm, presencia de estiolitas y puntos de GOE											
30		6270	30	0.2	4.64										200713167	28.80	30.60	1.80												
31		3300	11	0.1	2.14										200713168	30.60	32.05	1.45												
32		4050	16	0.1	2.22										200713169	32.05	32.65	0.60												
33		684	6	0.1	1.24										200713170	32.65	34.10	1.45												
34	DLST	483	5	0.1	1.23	DOL DDOL OX	S W W	PV MTX SPT	--	--	--	--	LIM	--	200713171	34.10	35.70	1.60	DLST FG beige con tintes oxidados, VLT de calcita<2mm, presencia de nivel fosilifero oxidado con vivavos mm, tambien se evidencia											
35		1890	14	0.1	1.56										200713172	35.70	37.20	1.50												
36																														
37																														

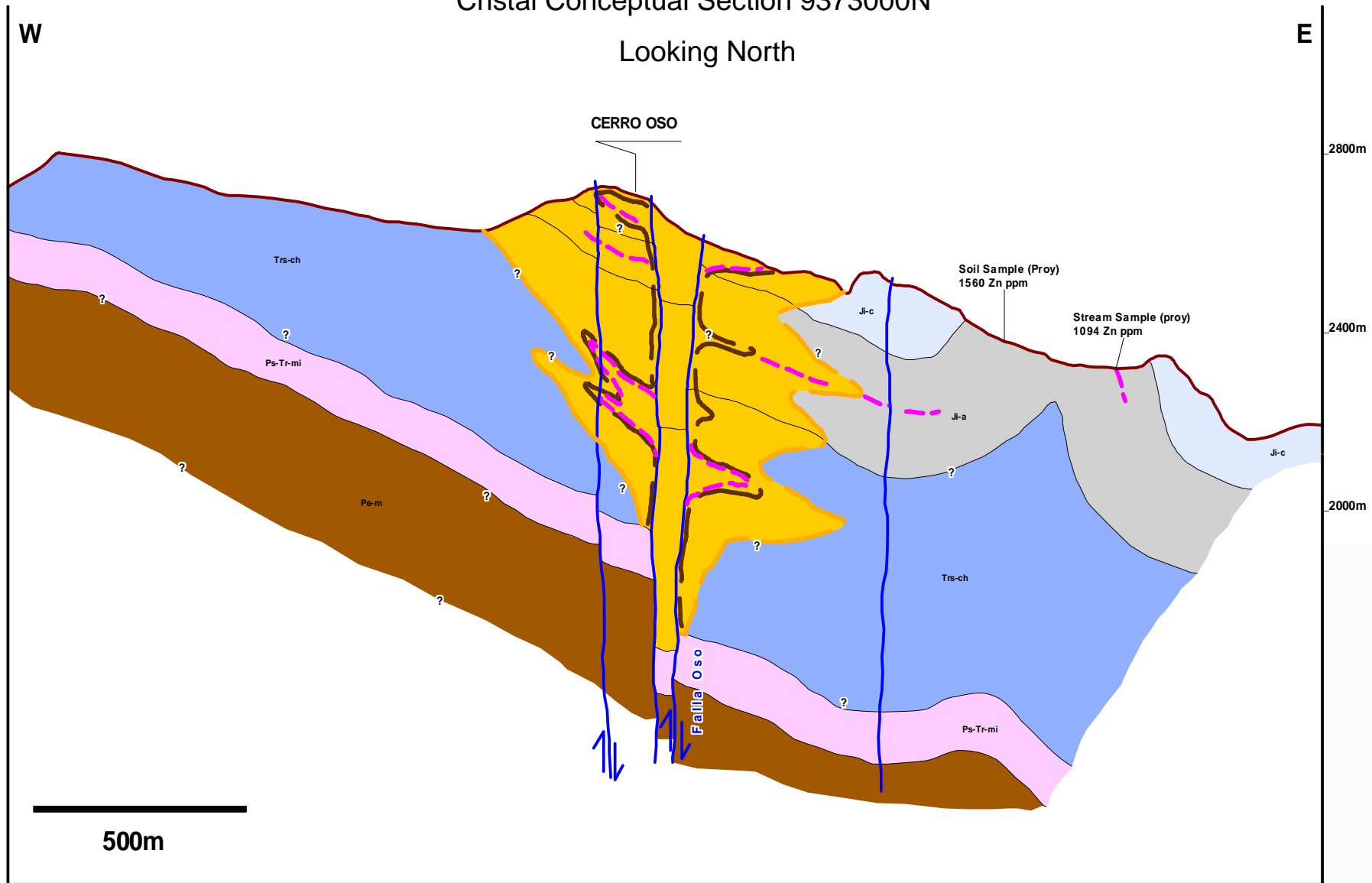
Cristal Conceptual Section Model – Looking East



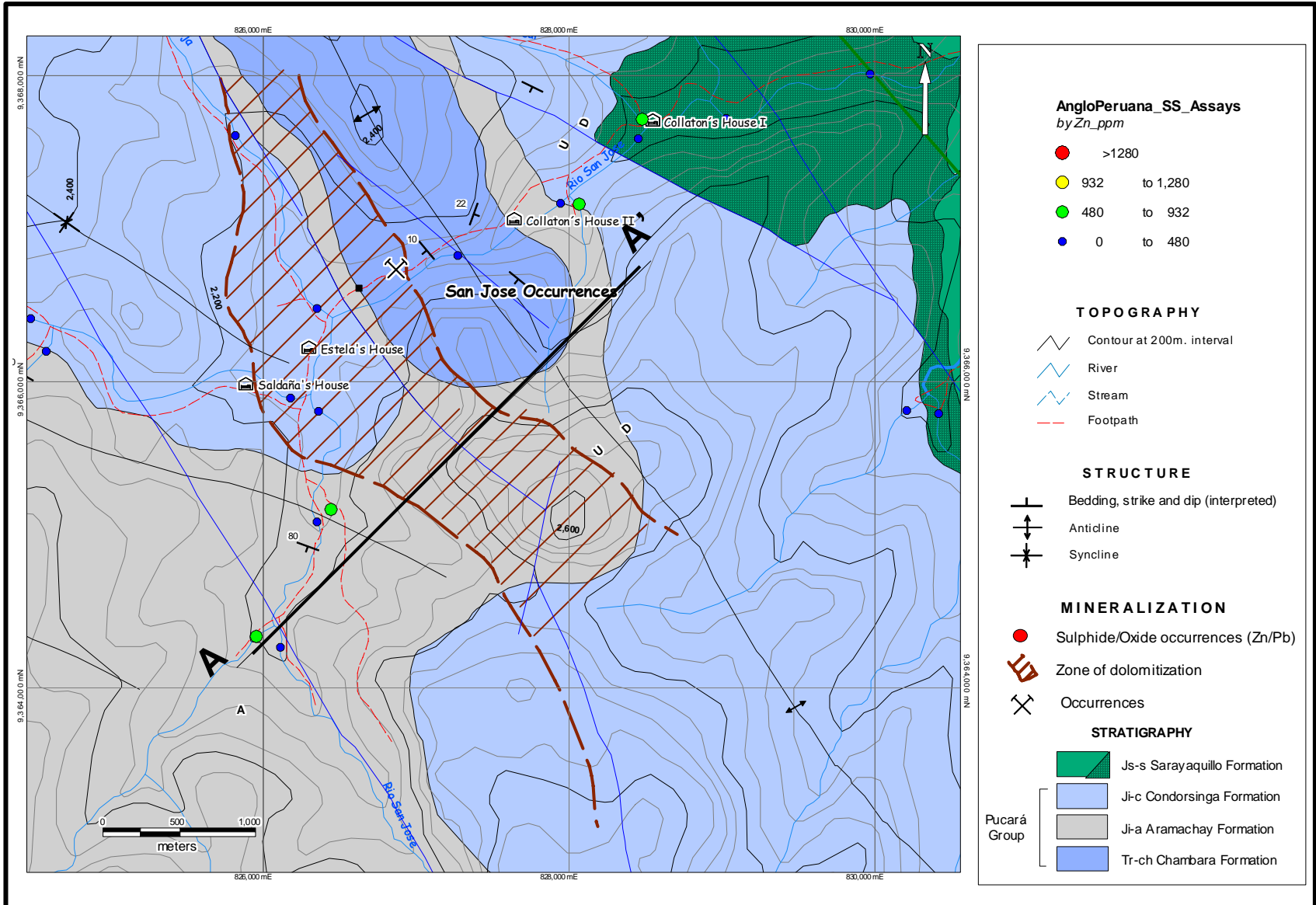
Alto Cristal Conceptual Section 9373000 N

Cristal Conceptual Section 9373000N

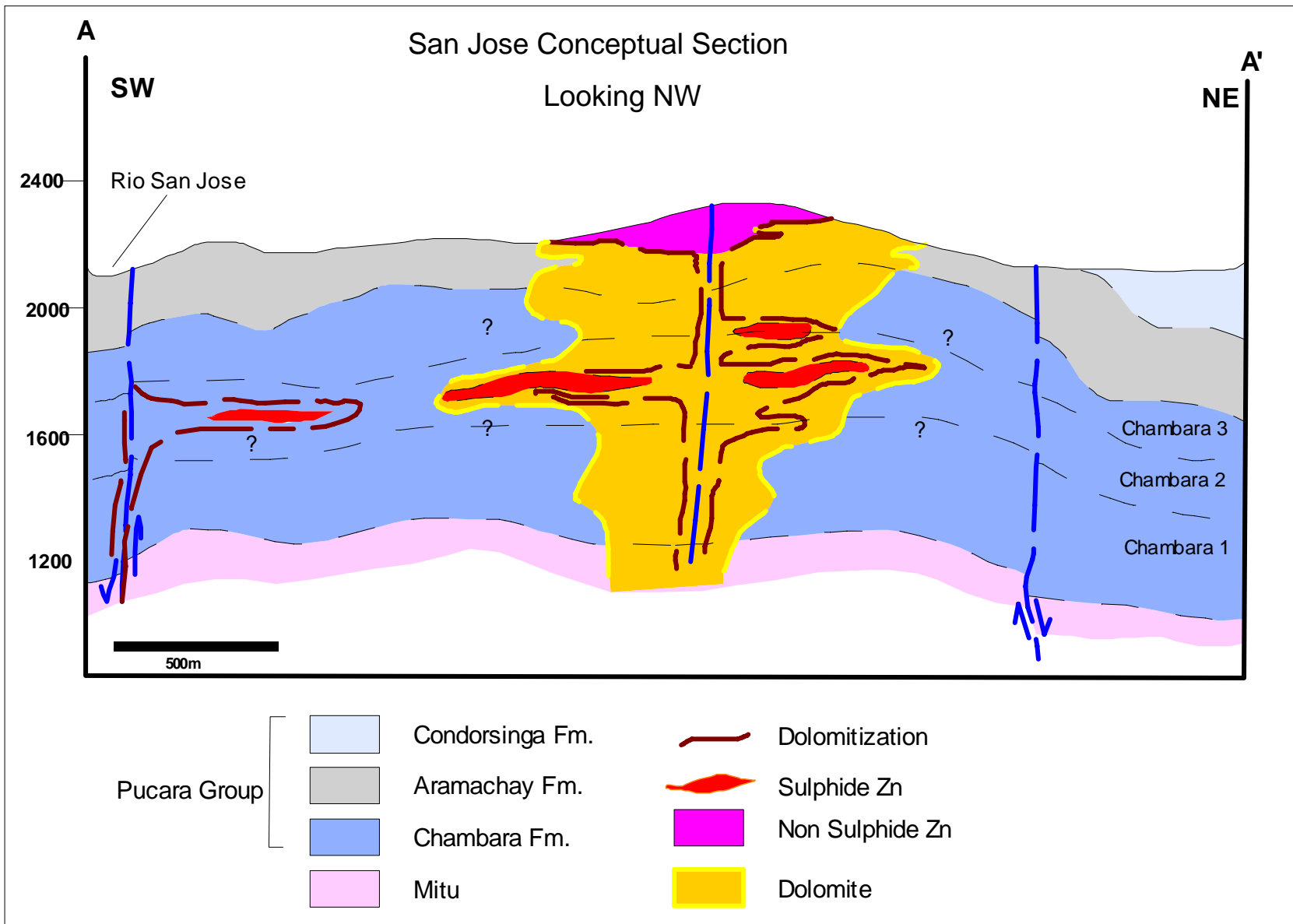
Looking North



San Jose Geology



San Jose Conceptual Section Looking NW



Florida Conceptual Section Looking NW

