N34_VARDENIS PROJECT

REPORT DIAGRAMS

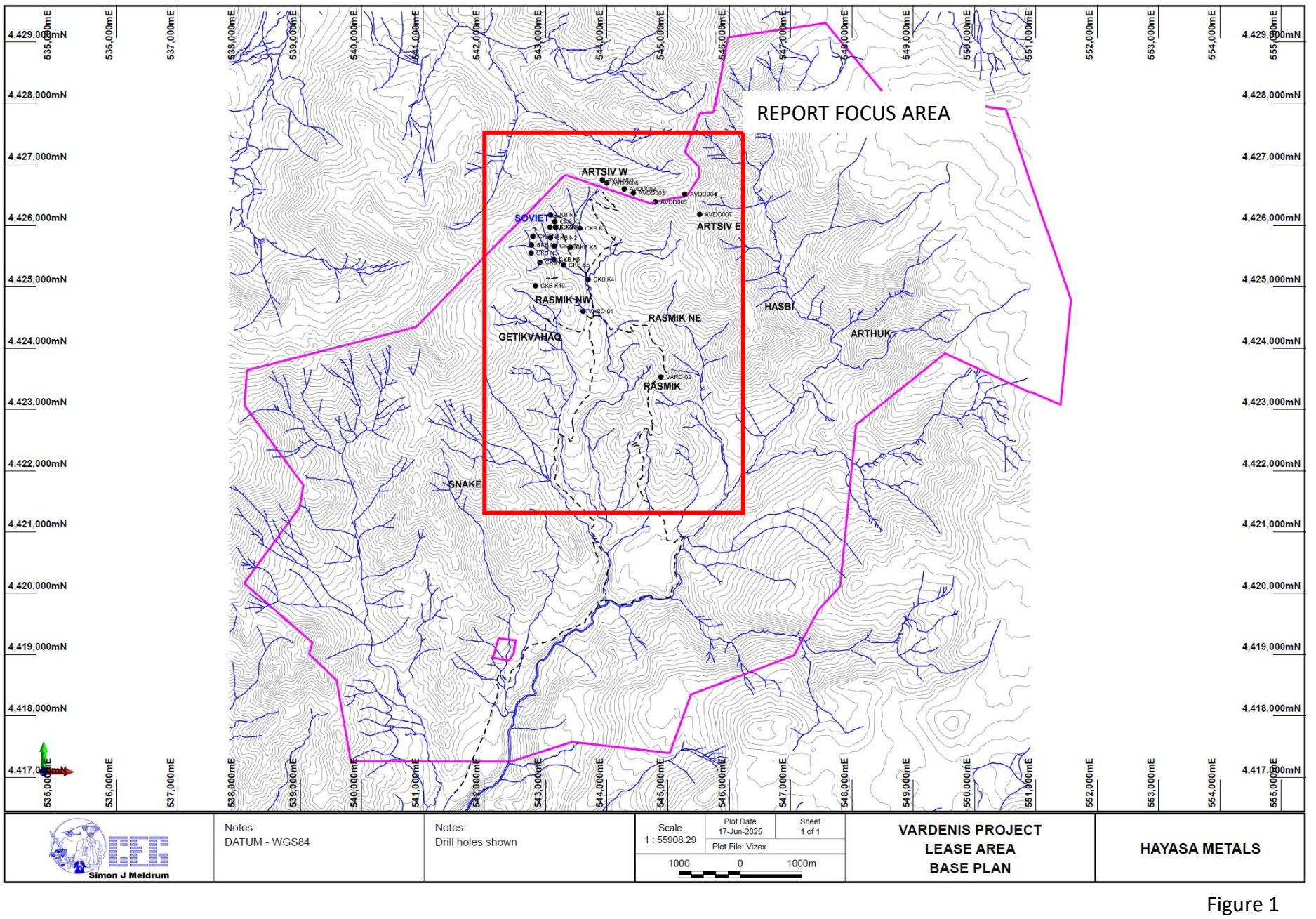


Figure 1

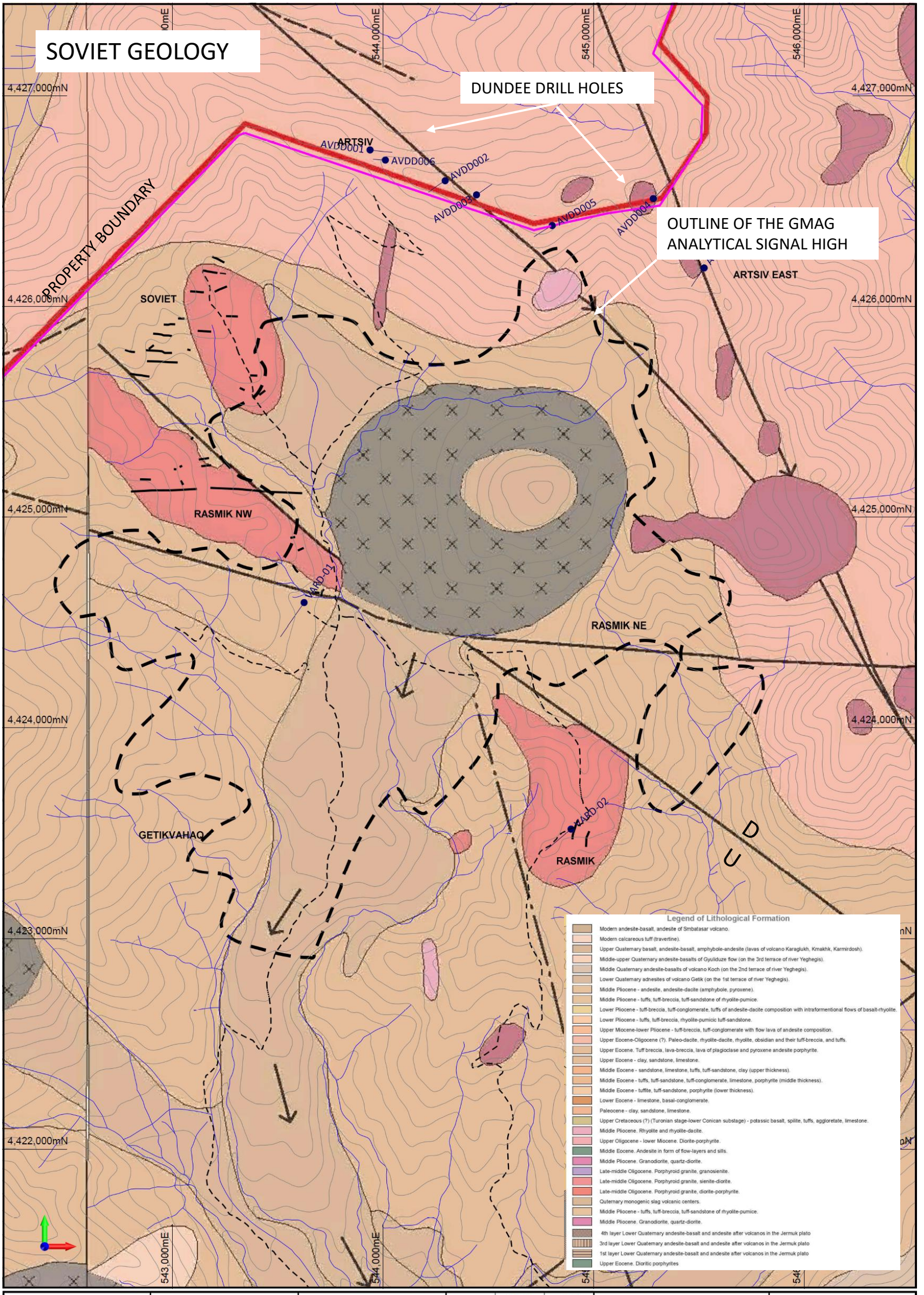
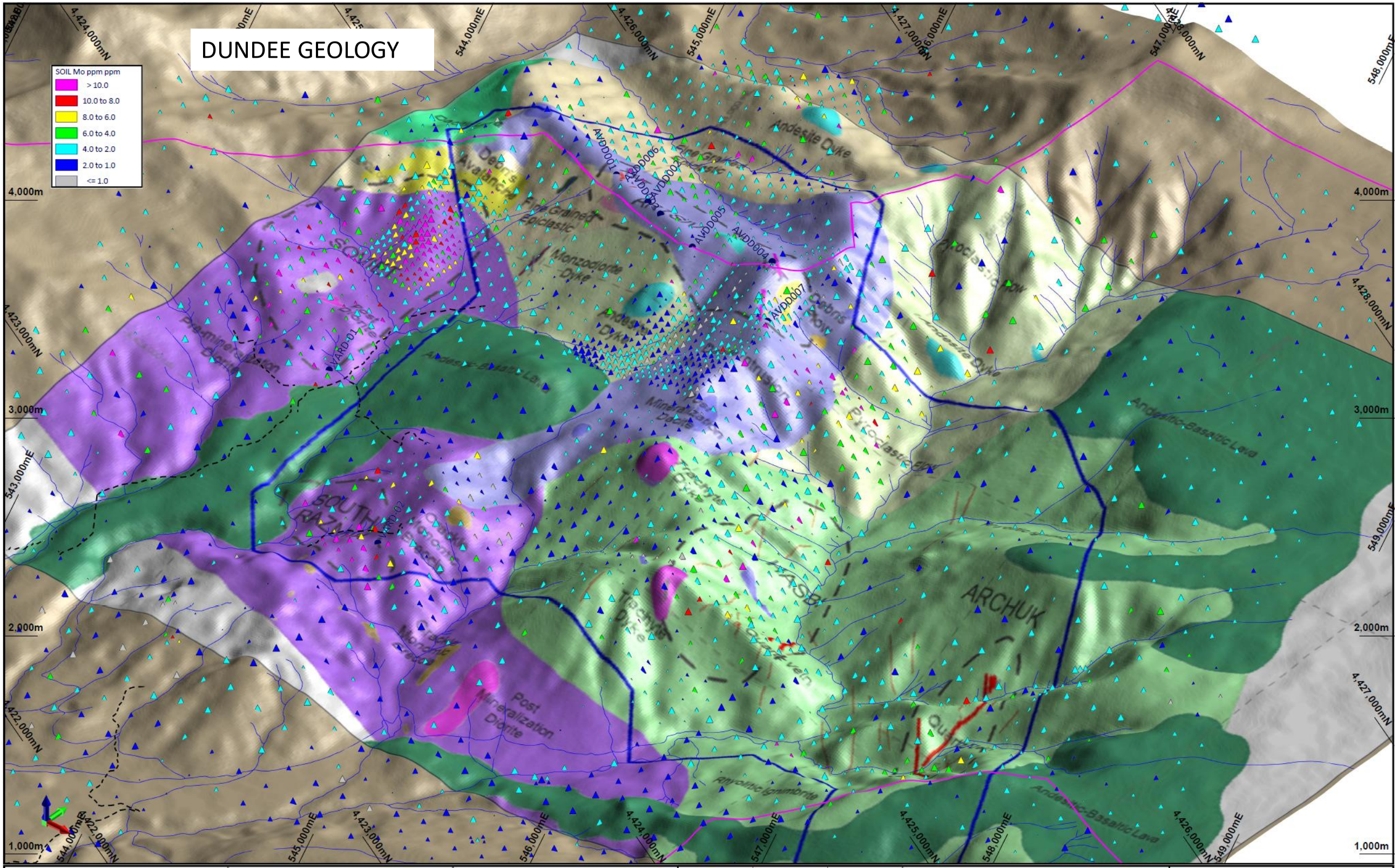

SOVIET GEOLOGY
DUNDEE DRILL HOLES
OUTLINE OF THE GMAG ANALYTICAL SIGNAL HIGH
PROPERTY BOUNDARY
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
ARTSIV EAST
SOVIET
RASMIK NW
ARD-01
RASMIK NE
ARD-02
RASMIK
GETIKVAHAQ
544,000mE
545,000mE
546,000mE
543,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
Legend of Lithological Formation
Modern andesite-basalt, andesite of Smbatasar volcano.
Modern calcareous tuff (travertine).
Upper Quaternary basalt, andesite-basalt, amphybole-andesite (lavas of volcano Karaglukh, Kmakhk, Karmirdosh).
Middle-upper Quaternary andesite-basalts of Gyuliduze flow (on the 3rd terrace of river Yeghegis).
Middle Quaternary andesite-basalts of volcano Koch (on the 2nd terrace of river Yeghegis).
Lower Quaternary adnesites of volcano Getik (on the 1st terrace of river Yeghegis).
Middle Pliocene - andesite, andesite-dacite (amphybole, pyroxene).
Middle Pliocene - tuffs, tuff-breccia, tuff-sandstone of rhyolite-pumice.
Lower Pliocene - tuff-breccia, tuff-conglomerate, tuffs of andesite-dacite composition with intraformentional flows of basalt-rhyolite.
Lower Pliocene - tuffs, tuff-breccia, rhyolite-pumicic tuff-sandstone.
Upper Miocene-lower Pliocene - tuff-breccia, tuff-conglomerate with flow lava of andesite composition.
Upper Eocene-Oligocene (?). Paleo-dacite, rhyolite-dacite, rhyolite, obsidian and their tuff-breccia, and tuffs.
Upper Eocene. Tuff breccia, lava-breccia, lava of plagioclase and pyroxene andesite porphyrite.
Upper Eocene - clay, sandstone, limestone.
Middle Eocene - sandstone, limestone, tuffs, tuff-sandstone, clay (upper thickness).
Middle Eocene - tuffs, tuff-sandstone, tuff-conglomerate, limestone, porphyrite (middle thickness).
Middle Eocene - tuffite, tuff-sandstone, porphyrite (lower thickness).
Lower Eocene - limestone, basal-conglomerate.
Paleocene - clay, sandstone, limestone.
Upper Cretaceous (?) (Turonian stage-lower Conican substage) - potassic basalt, spilite, tuffs, aggloretate, limestone.
Middle Pliocene. Rhyolite and rhyolite-dacite.
Upper Oligocene - lower Miocene. Diorite-porphyrite.
Middle Eocene. Andesite in form of flow-layers and sills.
Middle Pliocene. Granodiorite, quartz-diorite.
Late-middle Oligocene. Porphyroid granite, granosienite.
Late-middle Oligocene. Porphyroid granite, sienite-diorite.
Late-middle Oligocene. Porphyroid granite, diorite-porphyrite.
Quternary monogenic slag volcanic centers.
Middle Pliocene - tuffs, tuff-breccia, tuff-sandstone of rhyolite-pumice.
Middle Pliocene. Granodiorite, quartz-diorite.
4th layer Lower Quaternary andesite-basalt and andesite after volcanos in the Jermuk plato
3rd layer Lower Quaternary andesite-basalt and andesite after volcanos in the Jermuk plato
1st layer Lower Quaternary andesite-basalt and andesite after volcanos in the Jermuk plato
Upper Eocene. Dioritic porphyrites
Simon J Meldrum
Notes:
WGS84 Datum
25m contours
Note:
Dashed black line
AS MAG high
Scale
1 : 16889.87
Plot Date
09-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARADENIS PROJECT
SOVIET GOLOGY
HAYASA METALS

Figure 2

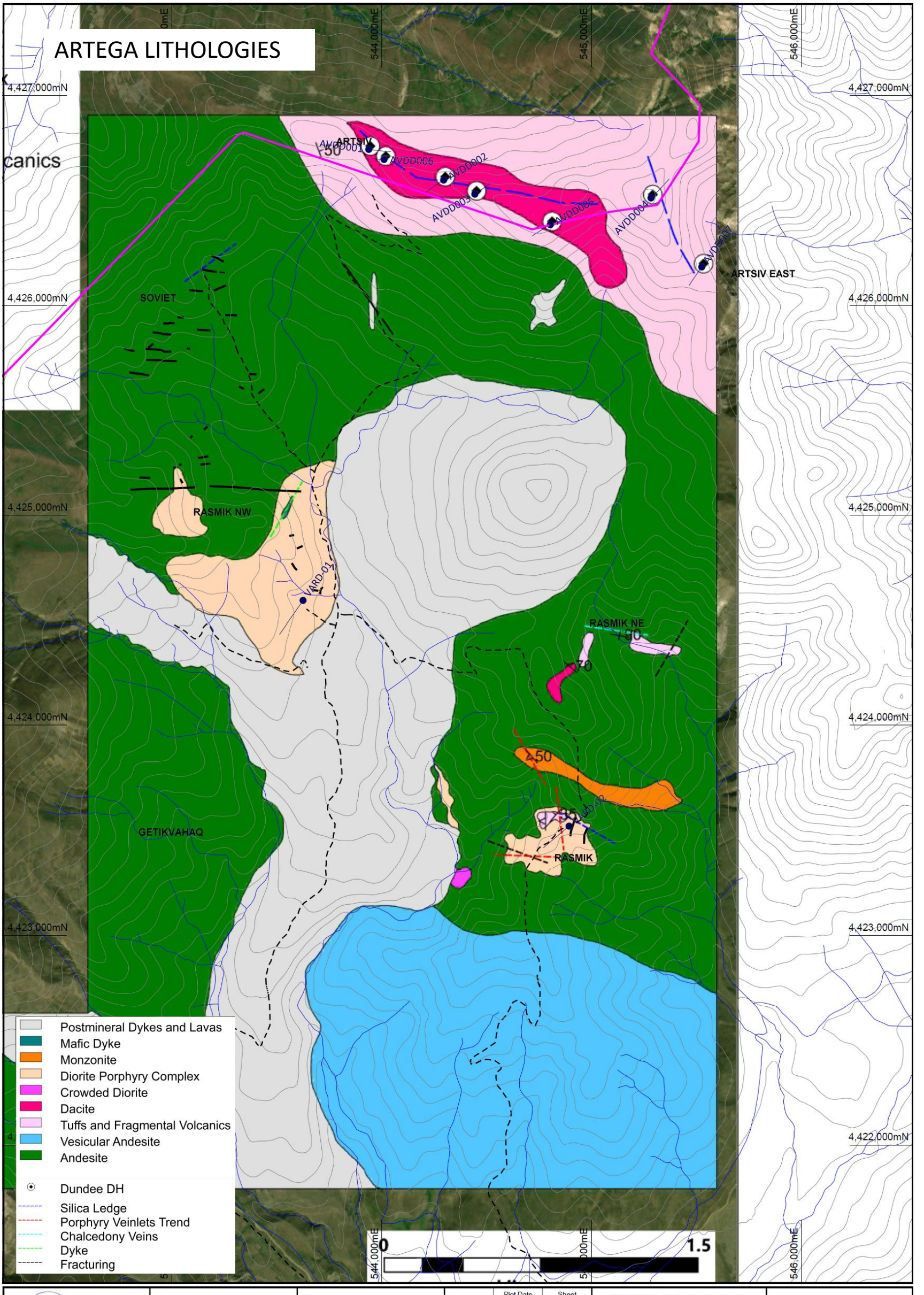
DUNDEE GEOLOGY



Simon J Meldrum	Notes: DATUM - WGS84 3D view from SW	Notes: Drill holes shown	Scale 1 : 20714.85 200 0 200m	Plot Date 09-Jun-2025 Plot File: Vizex Sheet 1 of 1	**VARDENIS PROJECT** **DUNDEE GEOLOGY** **Mo 'IN SOIL'**	**HAYASA METALS**

Figure 3

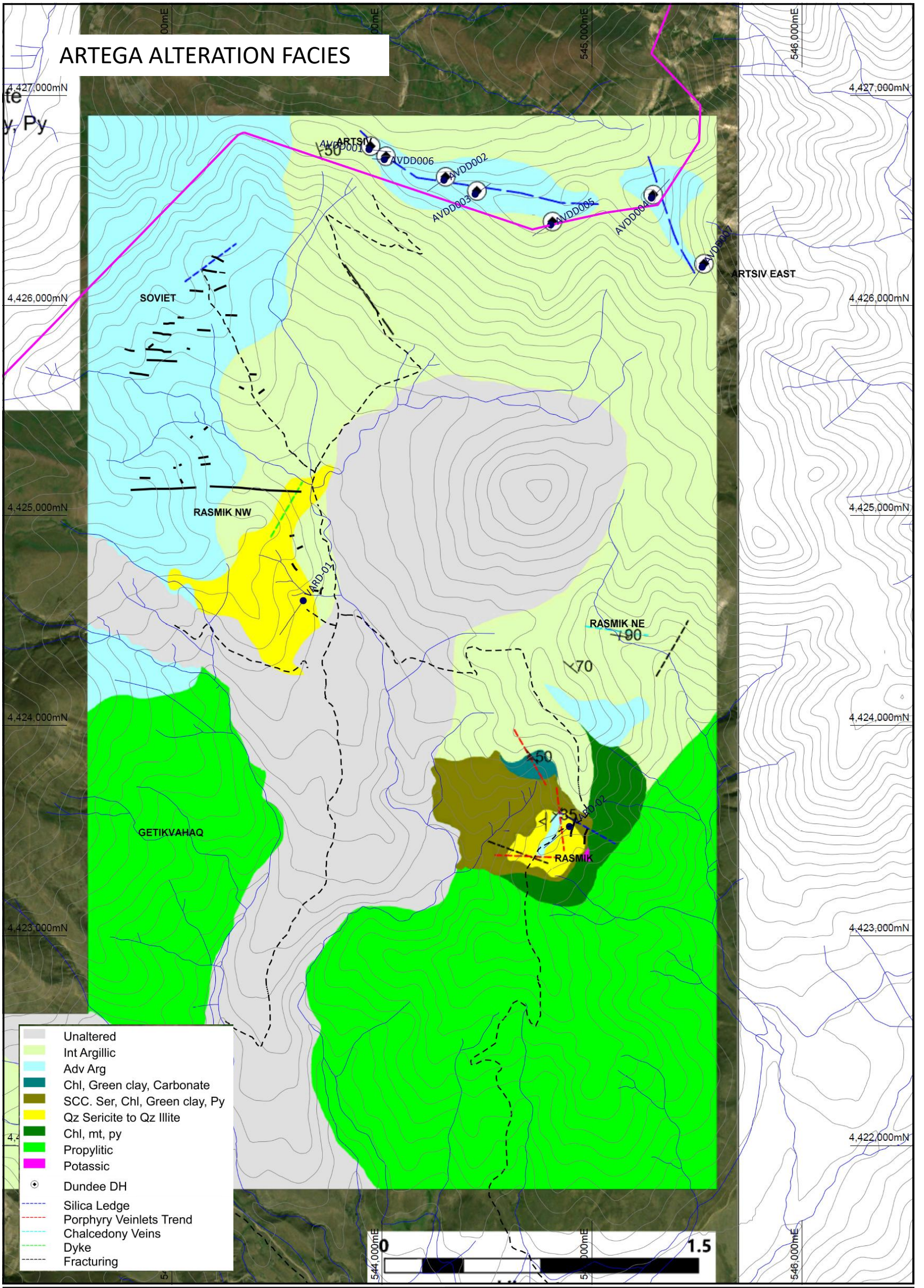
ARTEGA LITHOLOGIES



Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARADENIS PROJECT GEOLOGY - LUIS ARTEGA LITHOLOGY	HAYASA METALS

Figure 4

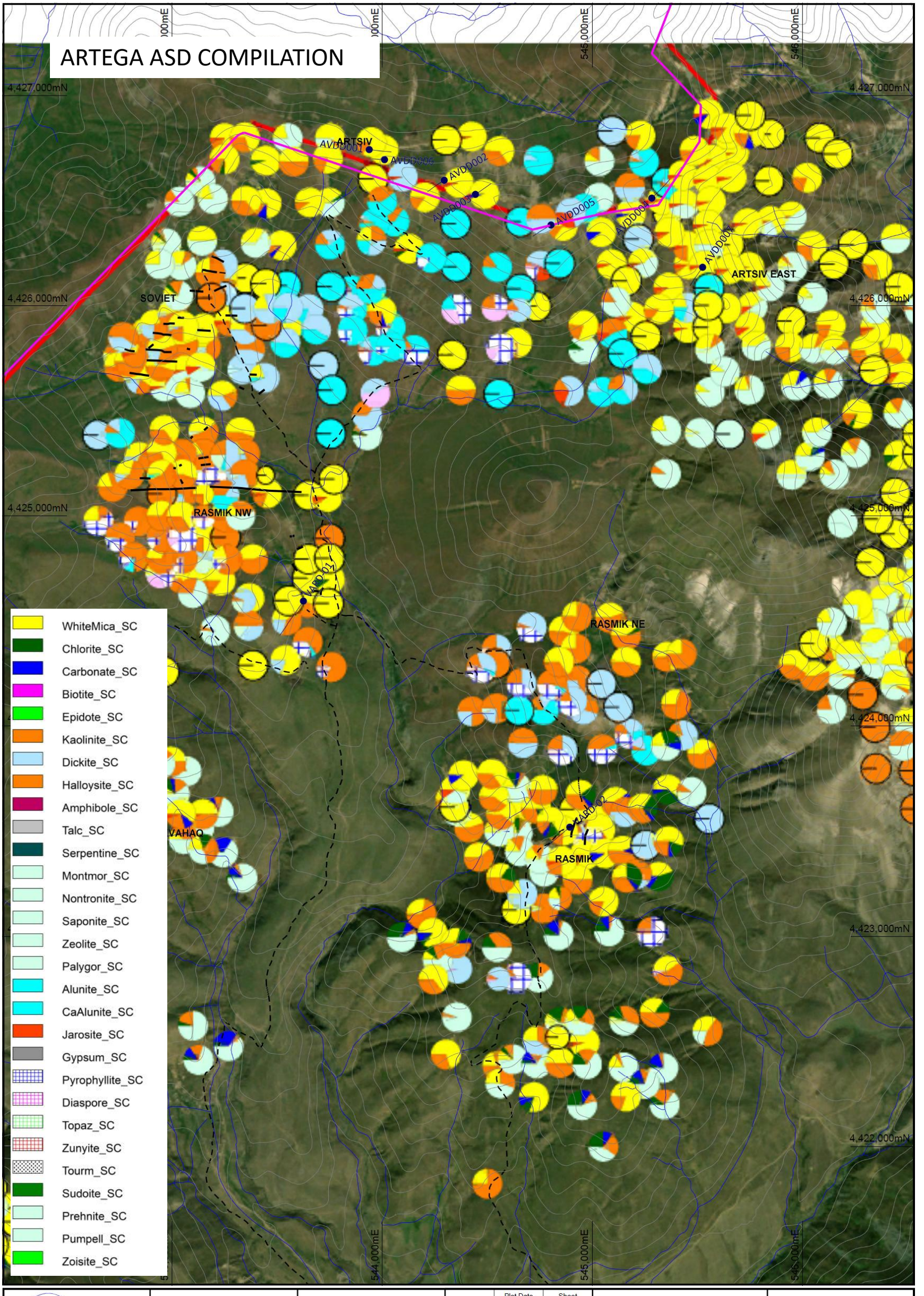
ARTEGA ALTERATION FACIES



Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARADENIS PROJECT GEOLOGY - LUIS ARTEGA ALTERATION	HAYASA METALS

Figure 5

ARTEGA ASD COMPILATION



Simon J Meldrum

Notes:
WGS84 Datum
25m contours

Note:

Scale 1 : 16889.87 | Plot Date 09-Jun-2025 | Sheet 1 of 1 | Plot File: Vizex

100 0 100 200m

VARADENIS PROJECT
GEOLOGY - LUIS ARTEGA
ROCK SAMPLE SPECTRA

HAYASA METALS

Figure 6

Vardenis - Generalised Geological Model
Graben concept

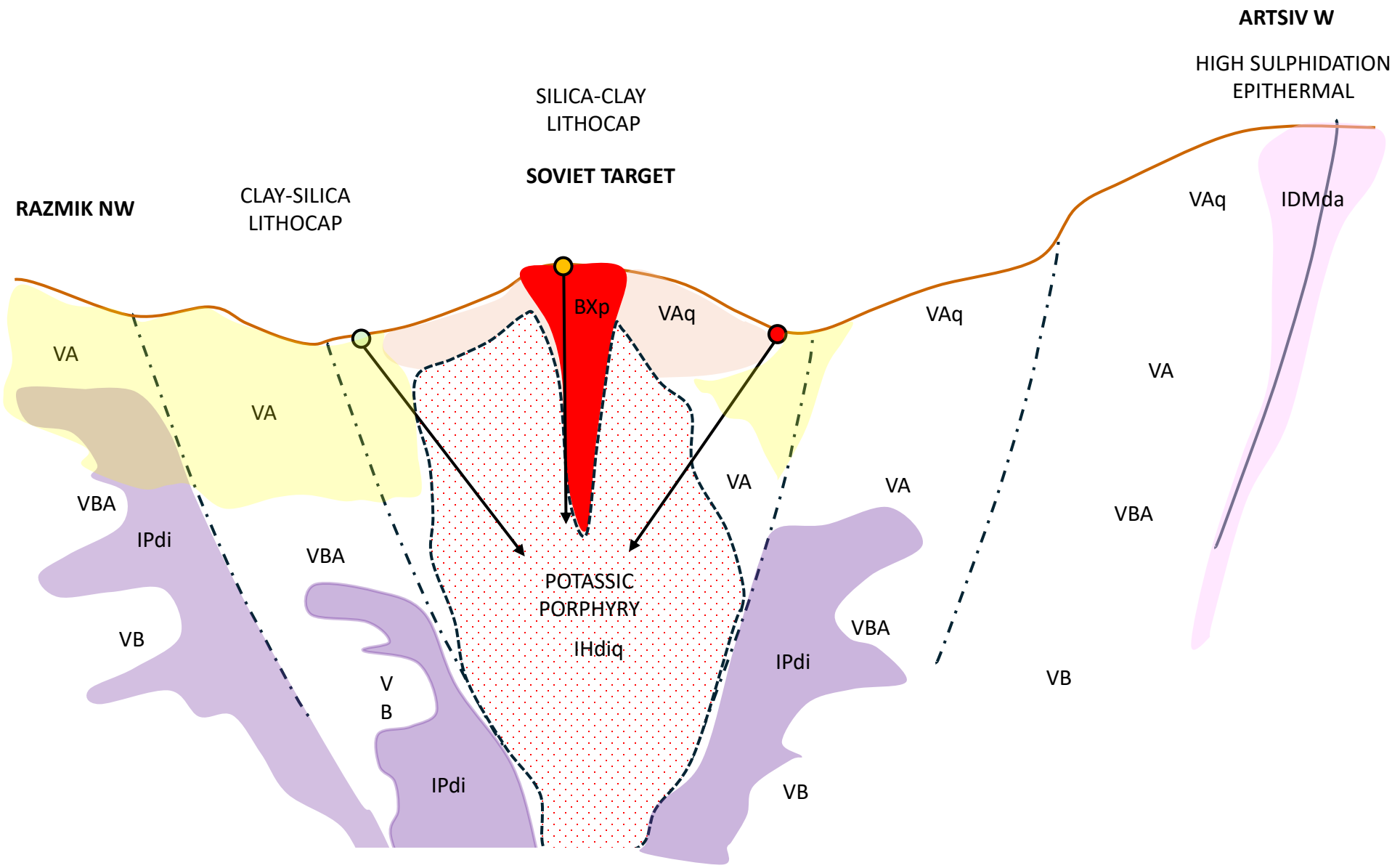


Figure 7

Soviet Target - Initial thoughts on exploration drilling

SOVIET TARGET
(1000m x 600m)

MID EOCENE
MSED / VAt/VD

1st round

2nd round

3rd round

VA f P / VAq fq P

IPgd IPdiq

MID EOCENE
VA f P

QUATERNARY
VBA

MID EOCENE
IPgd IPdiq

RAZMIK NW

SOVIET FAULT

CKB N5
CKB K2
CKB N6
CKB K1
CKB N1
CKB N3
CKB N7
CKB K6
CKB K8
CKB K10

LITH PLOT
- Pad fill
- Totally altered
- Fault
- Quartz vein
- Quartz sulphide vein
- Hydrothermal breccia
- Phreatic breccia
- Dacitic porphyry
- Quartz diorite porphyry
- Dioritic porphyry
- Undefined dyke
- Skarn
- Quartz diorite plutoinic
- Diorite plutonic
- Quartz andesite
- Andesite
- Basaltic andesite
- Basalt
- Metasediment

Figure 8

Simon J Meldrum	Notes: WGS84 Datum	RGEOL_QL LITH PLT	Scale 1 : 4846.47	Plot Date 13-Jun-2025 / Sheet 1 of 1 / Plot File: Vizex	VARADENIS PROJECT SOVIET TARGET 3D SOVIET & ROCK LITHOLOGIES	HAYASA METALS

N34_VARDENIS PROJECT
APPENDIX I
QL GEOLOGY LOGGING DATA

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
SOVIET
RASMIK NW
VARD-01
RASMIK NE
GETIKVAHAQ
VARD-02
RASMIK

Simon J Meldrum	Notes: WGS84 Datum	Note:	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARADENIS PROJECT BASE PLAN TRACK LOG & WAY POINTS	HAYASA METALS

INTERPRETATIVE ROCK SAMPLE LOGS

WPT	EAST_84	NORTH_84	RL	SUBSET	NOTE	STYP	LITH	LITH_PLT	BXT	BXC	BXM	BM%	SI	FE	CL	mt	AFAC	ASTY	AINT	A1	A2	A3	A4	A5	A6	A7	MTYP	MSTY	MINT	M1	M2	M3	M4	M5	M6	VTYP	VN%	STR1	D1	STK1	DDA1
001	541536	4416736	2066		House / Office																																				
002	544808	4423446	2672	N342	Breccia?	OCGR	IP/IHdiq fq PE m	IHdiq	BXj	IH	VNS	12	1.8	0.1	0.5	0.0	SE SI CS LH	PER VNS PAT PAT	4 3 2 1	se		qz	cl	il	al		OX	QVN	3				lm	go	GSV_CL	12				
003	544940	4423544	2690	N342		OCGR	IP/IHdi f E f	IHdi	BXc				0.2	0.3	0.0	1.7	PR SE	PER PAT	5 3	ch	se	mt			lx		OX	FFL	1				hm	lm		0				
004	544944	4423543	2691	N342		OCGR	IP/IHdi f E f	IHdi	BXc				1.4	0.9	0.0	1.2	PR MT	PER VNS PAT PAT	4 1	ch		qz	se	mt	ep	lx	OX	MTV FFL	1 1				hm	lm	MTV	0.1				
005	544902	4423965	2764	N342		OCGR	TO / MSED / MSs	MSED	BXf	TO / MSED	rf	10	2.4	0.6	0.5	0.0	HF SE SI SG	PER PER PER BXM	3 2 3 2	se	qz			il	cl		OX	BXM	2				hm	lm		0				
006	544882	4423982	2769	N342		FLGR	MQz	MSED	BXc	MQz	lm hm	2	4.8	0.4	0.0	0.0	HF SI AA	PER PER FRC	3 4 1	qz			se	al			OX	FFL	2			lm	hm			0				
007	544882	4423987	2771	N342	QE bedded or banded?	SCGR	TO / IG / VA B	VA	BXc				3.0	4.0	0.2	0.0	SI	PER	2		qz			se			OX	PEM	5	lm			hm			0				
008	544874	4423991	2772	N342		OCGR	TO / SED / IG	MSED	BXj	TO / SED	al qz		4.4	0.2	0.4	0.0	SI SA	BXC BXM	5 5	qz		al					OX	BXM	1				hm			0				
009	544846	4424018	2779	N342	Granitic ?	OCGR	IPdiq fq E mc	IPdiq					2.7	1.2	1.7	0.0	SE CS AA	PER PER PAT	1 4 2	cl	il	qz	se	al			OX	CLT PEM FFL	2 2 1			lm		hm		0				
010	543997	4420647	2295		Under VBA Ck o/c faulted IG	OCGR	IPdi hf E m	IPdi	BXc	IP	hm	2	3.2	1.8	0.0	0.0	SE SI CS LH	PER PEM	2 4	qz			se	il			OX	CLT FFL	1 3			hm		pm		0				
011	543999	4420651	2294			OCGR	TO / IG / QVN	QVN	BXj	TO / IG	VNS	60	4.8	0.3	0.2	0.0	SE SI SI AA	PER PER VNS CFL	1 5 5 2	qz				al	cl	qz	OX	QVN FFL	5 2				hm	lm		GSV_OCDT	60				
012	543964	4420693	2292		Stg weath CK o/c	OCGR	IPdi fb E fm	IPdi					0.0	0.2	0.1	2.0	PR	PER	3	ch							OX	nil								0		QHV	26	76	166
013	543974	4420686	2290		Sheader IG	OCGR	TO / IG	TO	BXf				1.2	2.4	0.5	0.0	SE CG										OX	FFL	3				hm					FLT	72	19	109
014	543783	4420899	2314		Sheader IG	OCGR	TO / IPdi fb E fm	IPdi	BXc	TO / IP	QHV	2	0.1	0.2	0.3	0.0	SE SI	PER FRC	5 1	se				qz			OX	QHV FFL	2 1				hm		QHV	2		SJO	44	6	86
015	543779	4420899	2314		CK O/C under VBA flow	OCGR	TO / IPdi / FLT	IPdi	BXj	TO / IP	VNS	4	1.0	0.2	4.4	0.0	SE SC CG	PAT PER STR	3 3 4	cl	se	qz	il				OX	QHV QVN CLT	2 2 1				lm	hm	GSV QHV	2 2				
016	543772	4420905	2314		CK O/C under VBA flow	OCGR	TO / IPdiq fq EP m	IPdiq	BXc	TO / IP	QHV	10	1.0	1.5	2.4	0.0	SE CS SI AA	PER PER FRC PAT	4 4 2 1	se	il	cl	qz			al	OX	CLT QHV FFL	2 3 2			hm	lm			QHV	10				
017	543620	4424590	2702	N343	DCOL VARD-01																																				
018	543567	4424552	2725	N343		OCGR	TO / IP/IHdi f E fm	IHdi	BXc	TO / IG	HMV	1.5	2.4	0.5	0.8	0.0	SE SI CS	PER FRC PER	3 1 3	qz	se	cl					OX	GMV FFL	1 2				hm	lm		HMV_qz	1.5				
019	543560	4424558	2729	N343		OCGR	TO / IP/IHdi E fm	IHdi					1.3	0.2	1.4	0.0	SE CS SI	PER PER FRC	3 4 1	se	cl			qz			OX	FFL	1				hm	lm		0				
020	543554	4424566	2730	N343		OCGR	TO /IP /IHdi E fm	IHdi	BXc	TO / IG	VNS	6	1.4	1.1	2.4	0.0	SE SI CS	PER VNS PER	2 1 4	qz	cl		il	se			OX	PEM QVN QHV HMV FFL	1 2 1 1 2			lm	hm			GSV_CL GSV_hm_CL QHV_go	0.2 2.5 0.5				
021	543533	4424576	2737	N343	IDY fg SI contacts	OCGR	TO / IH	TO					1.8	0.8	1.5	0.0	SE SI SC	PER VNS PER	2 2 5	qz	cl		il	se			OX	PEM FFL	2 2			lm	hm			0		CON	80	239	329
022	543527	4424581	2739	N343		OCGR	TO / IH	TO	BXc	TO / IG	QHV	5	0.8	1.2	2.1	0.0	SI CS	VNS PER	2 5	cl		qz			il		OX	PEM QHV	2 2		lm	hm		go		QHV	5				
023	543661	4425209	2708	N341																																				
024	543228	4425422	2740	N341	Large QE	FLGR	TO / IG / IHdiq P m	IHdiq					4.7	0.5	0.0	0.0	SE SI SI	PER PER VNS	2 4 1	qz		il	se				OX	SIV FFL	1 2						CXQ	0.2				
025	543233	4425473	2744	N341		OCGR	TO / IG / fq P	TO	BXi	SM	TO / IG	70	4.5	0.7	0.5	0.0	SI SE SA	BXC PER PER	2 1 4	qz		al		cl			TO	SIV DSM PEM	1 1 3				lm	hm	py	SIV	0.5				
026	543219	4425490	2749	N341		OCGR	TO / IG qf P mf	TO	BXi	q P	TO / IG	85	3.5	1.0	1.5	0.0	CS SC AA LH	PER PAT PAT SEL	4 4 2 1	qz		cl	al	pf			OX	CLT CFL FFL	1 2 2				lm	hm	mn		0				
027	543219	4425496	2749	N341		OCGR	TO / IG	TO	BXc				2.7	0.1	1.9	0.0	CS SA LH	PER PER PAT	3 4 1	qz	cl	al					OX	FFL	1					lm		0				
028	543181	4425575	2764	N341		SCGR	TO / IG / V	TO	BXc	TO / IG	QXV	8	3.5	1.8	0.4	0.0	SC SI LH	PER FRC PAT	5 3 2	qz			cl		al		OX	QVN PEM LGB	3 4 1		lm	hm				QHV	8				
029	543079	4425659	2790	N341	Weathered VA cover	OCGR	IG / V / fqb	TO					1.0	0.1	0.0	0.9	PR PT	PER PER	1 4	kf			bi	sm	ch		TO	DSM	1						py		0				
030	543053	4425702	2778	N341	Start AR rim	OCGR	FLT ?	FLT	BXf	qz	cl	5	4.9	1.7	0.2	0.0	SI AR LH	BXC BXM PAR	5 2 2	qz				cl			OX	BXM CFL	2 3		hm	go	lm			0				
031	543035	4425724	2783	N341	Ferricrete O/C	OCGR	TO / IG / V	TO					2.7	0.0	2.5	0.0	SC SI LH	PER	5	qz	cl		al				SX	DSM	2				py			0				
032	543015	4425742	2792	N341	SI ledge SM blocks	SCGR	TO / SM / QVN	QVN					5.0	0.1	0.0	0.0	SI LH	PER PAT	5 1	qz							OX	QVN PEM LGB	5					lm	SGQ	100				
033	543009	4425761	2798	N341																																				
034	542979	4425707	2796	N341	trench	TRGR	TO/ IG	TO	BXc				4.0	0.2	0.5	0.0	SC LH	PER PAT	5 1	qz			cl			al	TS	PAT	2				hm			0				
035	542913	4425617	2795	N341	Adit	MIDP	TO / SM	TO	BXc	TO / SM	py	3	5.0	1.4	0.0	0.0	SM	PER PAT	5	qz							TR	DSM FFL	2 4		py	lm	hm			0				
036	542909	4425614	2791	N341	Adit BXi ? FLT ?	MIDP	TO / IG f P f D	TO	BXc				4.8	0.0	0.2	0.0	SA SI LH	PAT PER PER	1 5 1	qz				al			SX	DSM	3			py	cc	cp		0				
037	542927	4425583	2784	N341	Adit	MIDP	TO / SM	TO	BXc	TO / SM	py cp	3	5.0	1.5	0.0	0.0	SM	PER PAT	5	qz						lx	TR	DSM FFL	1 5		hm	py	lm	cp		0				
038	543071	4425578	2764	N341	Ck O/C	OCGR	TO / IG fhq P mf	TO	BXc				3.7	0.7	0.4	0.0	PR SE SI	PHN PER PER	1 1 4	qz		se		sm	ch	lx	TS	FFL	2				lm	hm		0				
039	543573	4425265	2744	N341	Park																																				
040	543464	4425347	2761	N341	Soviet target Lithocap	FLGR	TO / IG	TO	BXc				4.2	1.8	0.3	0.0	SA LH	PER PAT	4 1	qz		al			cl		OX	CLT FFL	2 3			lm	hm			0				
041	543466	4425347	2761	N341		OCGR	TO / IG	TO					2.9	0.9	2.5	0.0	CS SA LH	PER PAT SEL	4 3 1	qz	cl		al				OX	CFL PAT	1 2				lm	hm		0				
042	543391	4425382	2761	N341	BRECCIA SA	OCGR	TO/ SM	TO	BXc				5.0	0.5	0.0	0.0	SM	PER	5	qz							OX	FFL	2					lm	hm	0				
043	543380	4425388	2763	N341	QE 4 % resorbed	FLGR	TO / q P f	TO					4.9	0.2	0.0	0.0	SA LH	PER PAT	5 4	qz				al			OX	CFL	1					lm		0				
044	543358	4425413	2766	N341		FLGR	TO / IG / SM	TO	BXt	SM	SA	10	4.8	3.0	0.1	0.0	SM SA	BXC BXM	5 2	qz				al			OX	BXM CFL	4 2		hm	lm		go		0				
045	543455	4425409	2761	N341		SCGR	TO / SM	TO	BXt	SM	SA / SC	17	4.0	2.8	1.0	0.0	SM SA LH	BXC BXM PAT	5 3 1	qz		cl	al				OX	BXM	3		lm		hm	go		0				
046	543469	4425453	2766	N341	Break in slope	FLGR	TO / IG	TO					4.9	1.2	0.0	0.0	SA SV	PER PER	5 3	qz							OX	CFL	4			lm	hm			0				
047	543446	4425528	2778	N341	SC/OC ?	SCGR	TO / IG q P	TO	BXc				4.7	2.1	0.0	0.0	SA	PER	5	qz				al			OX	PEM FFL	3 2		lm			hm		0		SJO	53	183	273
048	543430	4425579	2788	N341	Trench	TRGR	TO /	TO					4.0	0.7	0.7	0.0	SA LH	PER PAT	5 1	qz			al		cl		TS	CFL PAT	1 2					lm		0				
049	543410	4425564	2790	N341	Trench end																																				
050	543432	4425626	2797	N341	Pumice ?	TRGR	TO / VAq P mf B	VAq					4.3	1.0	0.5	0.0	SA LH	PER SEL	5 1	qz		al					TR	CFL PER	2 2				hm	lm		O				
051	543431	4425634	2801	N341	Flow banded volc?	SCGR	TO / IG q P f	TO	BXc				4.5	2.3	0.0	0.0	SA SM	PER BXM	2 5	qz					al		OX	PEM	4		lm			hm		O				
052	543425	4425658	2804	N341		SCGR	TO / IG q P f	TO	BXc				4.7	1.1	0.3	0.0	SA LH	PER PAT	5 1	qz			al			cl	OX	CLT CFL FFL	2 2 1			hm	lm			O				
053	543397	4425655	2808	N341	Trench GOS	FLGR	TO / IG	TO	BXc	SM	hm lm		4.9	3.0	0.0	0.0	SM LH	PER PAT	5 1	qz					al		OX	BXC	5	hm				lm		O				
054	543382	4425655	2809	N341	Trench	TRGR	TO / IG f	TO	BXc	TO / IG	QHV	0.2	4.7	1.3	0.0	0.0	SM LH	PER	5	qz				al			OX	QHV CLT LGB	1 1 3				lm		hm	QHV	0.2				
055	543366	4425655	2811	N341	Trench end																																				
056	543355	4425674	2815	N341	slickensides	SCGR	TO / IG	TO	BXf				4.8	0.1	0.0	0.0	SA	PER	5	qz			al				OX	nil								O				
057	543360	4425709	2820	N341		OCGR	TO / IG	TO					4.8	1.9	0.2	0.0	S1	PER	5	qz					al	cl	OX	CFL PER	4			hm		lm		O				
058	543345	4425784	2829	N341		FLGR	TO / IG SMV	TO	BXc				5.0	1.2	0.0	0.0	SA SM LH	PER PER PAT	1 5 2	qz						al	OX	BXM CFL	3 4		hm		lm			0				
059	543345	4425791	2829	N341		SCGR	TO / IG SMV	TO	BXf				4.9	2.2	0.0	0.0	SM LH SA	BXC PAT BXM	5 2 2	qz					cl	al	OX	QLV BXM	1.5	lm	hm					QLV	0.2				
060	543322	4425831	2831	N341		SCGR	TO / IG SA	TO	BXc				4.0	0.8	0.0	0.0	SA SI LH	PER PER PAT	4 4 1	qz					al		OX	PEM CFL	2 1				lm		hm		0				
061	543246	4425941	2842	N341	SA breccia zone	SCGR	TO / BXp ?	BXp	BX1	SM	SA	60	4.2	0.2	0.3	0.0	SM SA AA	BXC PER VNS	4 5 1	qz	al				pf		TR	PFV PAT	1 1						lm	PFV	0.2				
062	543247	4425939	2841	N341	SA breccia zone	SCGR	TO / BXp ?	BXp	BX1	SM	PFV	1.5	4.2	0.3	0.4	0.0	SM SA AA	BXC PER VNS	4 5 2	qz	al		pf				TR	PFV PAT	2 1					lm		PFV	1.5				
063	543239	4425949	2843	N341	SA breccia zone	FLGR	TO / BXp ?	BXp	BX1	SM	SA	75	3.8	0.2	0.7	0.0	SA SA	BXC BXM	2 5	qz	al		cl				OX	FFL	1					lm		0				
064	543234	4425977	2850	N341	SA breccia zone	SCGR	TO / BXp ?	BXp	BX1	TO / IG	SA	70	3.7	0.0	1.3	0.0	SM SA	BXC BXM	5 5	qz	al			cl			OX	nil								0				
065	543166	4426046	2867	N341	Trench 10m to west																																				
066	543164	4426046	2866	N341	SC / CS margin	SCGR	TO / IG VAat f ?	VA					1.7	0.1	1.8	0.0	CS	PER	5	cl		qz		al			TR	FFL	1					lm		0				
067	543143	4426152	2857	N341		FLGR	TO / IG VAqct fm	VAq					4.0	0.6	0.1	0.0	SC SI	PER PER	4 3	qz			cl	al			OX	PEM	2			lm				0				
068	543169	4426160	2852	N341		OCGR	TO / BX	FLT	BXf	SM	SA		3.5	0.9	0.5	0.0	SM SA	BXC BXM	4 5	qz	al			kf			OX	BXM CFL	2			hm	lm			0				
069	543187	4426160	2845	N341		OCGR	TO / BX	BXh	BXh	SM	SA	75	3.2	0.3	0.7	0.0	SM SA LH	BXC BXM PAT	4 5 1	qz	al			cl	pf		OX	BXM CFL	5 1					hm	lm		0				
070	543177	4426146	2846	N341		SCGR	TO / BX	BXh	BXh	SM py	SA_py	40	4.7	0.4	0.2	0.0	SM SA	BXC BXM	5 3	qz				al	cl		OX	BXC BXM QXV	5 2 1	py						QXV_py	0.3				
071	543187	4426147	2842	N341	Grey mineral CX ?	OCGR	TO / IG / VAclt	VA	BXv	TO / IG	VA f	85	4.2	0.0	0.3	0.0	SA	PER	5	qz		al		pf	cl	S	SX	DSM	1					as	S		0		BED	47	191	281
072	543196	4426169	2840	N341																																			FLT	78	354	84
073	543256	4426165	2826	N341		OCGR	TO / IG VAat f	VA					2.7	0.2	1.0	0.0	SE SA AA	PER PER PAT	1 5 1	cl		al	qz		pf		OX	FFL	1					lm		0				
074	543452	4426209	2818	N341	Ck common SC float																																				
075	543496	4426224	2815	N341		FLGR	TO / IG VAq clt f	VAq	BXc	TO / VA	SIV	0.5	4.5	0.2	0.1	0.0	SA SI LH	PER VNS PAT	5 1 1	qz		al					OX	QVN PEM	1 1						hm	CXQ_OCDT	0.5				
076	543675	4426114	2824	N341																																				
077	543948	4425988	2840	N341		OCGR	TO / IHda fq P mc	IHda					0.5	0.1	2.9	0.0	PR CS LH	PAT PER PAT	1 5 2	cl		al		qz	ch		OX	CFL	1					lm		0				
078	543948	4425988	2840	N341	Dacitic dyke VAq wal rocks	OCGR	TO / IDY f PA m	IDY					0.7	0.2	0.5	0.8	PR PT SI CS	PER PAT PAT PHN	3 1 2 2	ch			cl	qz			OX	nil								0		CON	85	175	165
079	543728	4420500	2382		altered??	OCGR	IHda fqb PA m	IHda					0.0	0.0	0.0	0.0	UA										OX	PHN	1					lm		0				
DF						FLGR	TO / IG VAq ct fm	VAq	BXi	SMs	TO / IG	80	3.0	0.0	0.7	0.0	HF SA	BXC PER	2 5	qz	al		cl				OX	nil								0				

HOLE_NO	FROM	TO	INT	NOTE	LITH	LITH_PLT	BXT	BXC	BXM	BM%	SI	FE	CL	mt	AFAC	ASTY	AINT	A1	A2	A3	A4	A5	A6	A7	MTYP	MSTY	MINT	M1	M2	M3	M4	M5	M6	VTYP	V%
VARD-02	200	200.2	0.2		IDY f EP mf		BXc	IDY SX	VNS	0.9	1.4	0.0	0.0	0.0	PT SE GP	PER PER VNS	241	se			kf		gp		SX	SXV GPV CLT	111						py	SXV_py GPV ALV	0.4 0.5
VARD-02	200.2	206.6	6.4		VAct						1.6	0.0	0.0	0.0	PR PT SE GP CB	PAT PAT PER FRC FRC	12311	se		kf	qz	ca	gp		SX	CBV GPV	12						py	GPV CBV	
VARD-02	206.6	226	19		VAclt						1.6	0.0	0.0	0.0	PR PT SE GP CB	PAT PAT PER FRC FRC	12311	se		kf	qz	ca	gp		SX	CBV GPV	12						py	GPV CBV	
VARD-02	226	231	5		FLT		BXf	TO / IG	cl>se	15	0.4	0.0	1.7	0.0	PR AR	BXC BXM	25	cl		se					SX	BXM	2		py						0
VARD-02	231	240	9		TO / VAct						1.6	0.0	0.0	0.0	PR PT SE GP CB	PAT PAT PER FRC FRC	11411	se		kf	qz	ca	gp		SX	CBV GPV	12						py	GPV CBV	
VARD-02	240	265.8	26		VBA l / ct		BXc	VBA	CBV	4	0.0	0.0	0.0	1.8	PR HM CB	PER PAT FRC	432	ch			hm	ca		lx	SX	CBV GPV	2						py	CBV	4
VARD-02	265.8	280	14		VAct		BXc	VA	CBV	2.5	1.2	0.0	0.0	0.1	PR PT SE CB GP	PAT PAT PER FRC FRC	21321	se	ch	qz	ca	kf	gp	lx	SX	CBV GPV	21						py	CBV GPV	2.5
VARD-02	280	286	6		VAct BX		BXt	VA	CBV	15	2.4	0.0	0.0	0.1	PR PT SE CB GP	PAT PAT PER FRC FRC	21341	qz	ch	ca	se	kf	gp	lx	SX	CBV GPV	41						py	CBV GPV	14 1
VARD-02	286	291.5	5.5		VAct		BXc	VA	CBV	2.5	1.2	0.0	0.0	0.1	PR PT SE CB GP	PAT PAT PER FRC FRC	21321	se	ch	qz	ca	kf	gp	lx	SX	CBV GPV	21						py	CBV GPV	2.5
VARD-02	291.5	305	14		VBl		BXc	VB	VNS	7	0.8	0.0	0.0	0.0	PR SE CB GP	PER PER FRC FRC	2121	se			ch	ca	gp	lx	SX	CBV GPV	21						py	CBV GPV	43
VARD-02	305	340	35		VBl		BXc	VB	VNS	4	0.4	0.0	0.1	0.0	PR SE CB GP	PER PER PEM	232	se				ca	ch	lx	SX	CBV FFL	21						py	CBV	2
VARD-02	340	376.1	36		VBl D		BXc	VB	VNS	10	0.0	0.0	0.0	2.4	PR CB	PER VNS	53	ch			ca	gp		lx	SX	CBV GPV FFL	421						py	CBV GPV	10 2

LITHOLOGY 1

Confidence Index - 1: positive 2: confident (SO) 3: probable (TO) 4: guess (TO)

LITHOLOGY DATA RECORDING COLUMNS

TO = totally alt
SO = strongly alt

LITH BXT r BXC BXM %BM CI

- S** sedimentary
- M** metamorphic
- V** volcanic
- I** igneous
  - IDY** dyke
  - IDM** dome
  - IH** hypabyssal
  - IP** plutonic

bx type/facies | clast rounding | bx clasts | bx matrix | % bx matrix | confidence index

SURFICIAL DEPOSITS

PF	pad fill	Fs	fluvial seds	Alv	alluvium
Gr	gravel	Glt	glacial till	Sc	scree
Grp	perched gravel	Gmor	glacial moraine	So	soil
		Cct	calcrete	Fct	ferricrete
				Calh	caliche

SEDIMENTS (S)

SCg	conglomerate	SMsb	carb mudstone	SLs	limestone
SAr	arkose	SMsc	calc mudstone	SLso	oolitic limestone
SSd	sandstone	SMsp	peb mudstone	SLsc	marly limestone
SSdb	carb sandstone	SSh	shale	SLsd	dirty LS
SSdc	calc sandstone	SShg	graphitic shale	SLsy	shelly limestone
SSs	siltstone	SShb	carb shale	SLsh	sinkhole fill
SSsb	carb siltstone	SGw	greywake	SLd	dolomite
SSsc	calc siltstone	SFlch	flysch seds	SEv	evaporite
SSsl	lamin siltstone	SVcl	volcaniclastic	SNn	sinter near vent >60°
SMs	mudstone	SCh	chert	SNs	sinter mid slope <60°
SMsf	fer mudstone	SCl	chalk	SNd	sinter distal apr <35°

Features:
B bedded, GB graded bedding, RB reverse bedding, CB cross bedded, I indurated, F fossiliferous

METAMORPHICS (M)

MMb	marble	MVb	meta basalt	MSha	amphibolite
MSk	skarn	MMs	meta mudstone	MShu	granulite
MSKmt	mt skarn	MSs	meta siltstone	MHfh	hb hornfels
MSkmtgt	mt-gt skarn	MSd	meta sandstone	MHfp	pyx hornfels
MSkgt	gt skarn	MQz	quartzite	MGn	gneiss
MSkgtep	gt-ep skarn	MMg	migmatite	MHf	hornfels
MSkep	ep skarn	MPh	phyllite		
MSkac	ac skarn	MSh	schist		
MSkdp	di skarn	MShp	glauc schist	SKE	endoskarn
MSksc	sc skarn	MShg	green schist	SKX	exoskarn

LITHOLOGY 2

VOLCANICS (V)

V B c c d d d d e e F F

- V volcanic designator
- B composition
- c volc facies
- d minerals (abundance order)
- e grain size
- F features

COMPOSITION

B	basalt	RD	rhyodacite	P	phonolite
BA	basaltic andesite	R	rhyolite	E	tephrite
A	andesite	T	trachyite	L	latite
D	dacite	TA	trachyandesite		

VOLCANIC FACIES

t	tuff	ft	pyroclastic flow	lhr	lahar
at	ash tuff	ba	block and ash	p	pillow basalt
ct	crystaltuff	vtt	vitric tuff	ign	ignimbrite
clt	crystal lithic tuff	lpt	accret lapilli tuff	fl	lava flow
lt	lithic tuff	fgm	fragmental		

MINERALS

q	quartz	o	olivine	FACIES	
f	feldspar	a	augite	PX	proximal
h	hornblende	g	glass	DX	distal
p	pyroxene	b	biotite		
m	magnetite				

GRAIN SIZE

vf	very fine	m	medium
f	fine	mc	medium coarse
fm	fine to medium	c	coarse

FEATURES

FB	flow banded	VT	vitric	UT	tephra
D	melanocratic	W	welded	CR	crystal crowded
L	leucocratic	GB	graded bedded		
VE	vessicular	RB	reverse graded bedded		

EXAMPLES

VAct fhq D dark andesitic crystal tuff with feld hornblend and quartz crystals/phenos
VRDign fqh W welded rhyodacitic ignimbrite with feld & quartz phenos/crystals

EXTRACT AS MUCH INFORMATION IN A CODED FORM AS POSSIBLE

LITHOLOGY 3

INTRUSIVES (I)

I B c c d d d d E E f G

- I igneous designator
- B intrusive facies
- C composition
- d phenocrysts / crystals
- E textures
- f grain size
- G features

INTRUSIVE FACIES

IDY	dyke	IH	hypabyssal	IP	plutonic
IDM	dome			IPS	sill

COMPOSITION

do	dolerite	rh	rhyolitic	ba	basaltic andesite
di	diorite	g	granitic	gb	gabbro
dm	microdiorite	gd	granodiorite	la	lamprophyre
an	andesitic	to	tonalite	sp	serpentenite
da	dacitic	mz	monzonite	sy	syenite
rd	rhyodacitic	mzg	monzogabbro	pl	aplite | ALT
				pg	pegmatite

COMMON MINERALS

q	quartz	b	biotite	a	augite
f	plagioclase	p	pyroxene	k	orthoclase
h	hornblende	m	magnetite	o	olivine

ROCK TEXTURES

A	aphanitic	PE	porph > equigranular
P	porphyritic	EP	equigranular > porph
PA	porphyritic w aphanitic gmass	E	equigranular
		G	graphictic

GRAIN SIZE

vf	very fine	fm	fine to medium	mc	medium coarse
f	fine	m	medium	c	coarse

FEATURES

FB	flow banded	L	leucocratic	FY	felty
D	melanocratic	VE	vessicular	VI	vitric
				CR	crystal crowded

LITHOLOGY 4

BRECCIAS (BX)

BX b c DDd d EE e e % B

- BX breccia designator
- b breccia facies
- c clast rounding (optional)
- d clast component
- e matrix component
- % estimate % matrix
- B blockdesignator

'BRECCIA RULES OF THUMB'

hydrothermal breccias - matrix is sourced from hydrothermal fluids
phreatic breccias - sourced at depth & drill upwards.
explosive origin Matrix is pulverised rock flour & clasts are sourced from depth
diatreme breccas - originate at surface and drill
passive process downwards. Matrix is clay rich & clasts are sourced form near surface

BRECCIA FACIES (BXT)

BXf	fault bx	TECTONIC		BXb	pebble bx
BXt	tectonic bx			BXv	volcanic bx
BXj	jigsaw bx			BXi	intrusion bx
BXc	crackle bx			BXd	diatreme bx
BXp	phreatic bx	PHREATIC FACIES	numeric alternative	BX1	coarse poor sort
BXp	phreatic bx			BX2	coarse well sort
BXrc	rf-clastic bx			BX3	fine poor sort (dykes)
BXr	rock flour bx			BX4	fine well sort (dykes)
BXo	'overbank' phreatic breccias - weaker retrograde alt typ / oganic materiel				
BXg	phreatomagmatic		numeric alternative	BX5	ign matrix coarse
BXg	phreatomagmatic			BX6	ign matrix fine
BXh	hydrothermal bx			BX7	hydrothermal matrix
BXa	auto breccia - IDM ML			BX8	ha cl matrix
BXs	sedimentary breccia			BX9	qz clast qz matrix
BSs	barren silica shoulder pseudo bx				coarse qz-al alt
BXx	collapse breccia			VBx	vein matrix breccia
				BXl	acid drain back bx

typical to high sulphidation porphyry/breccia complexes

CLAST ROUNDING (r)

va	very angular	sa	sub-angular	ro	rounded
an	angular	sr	sub-rounded	wr	well rounded

BRECCIA CLASTS (BXC)

PL	polymict	MS	meta seds	PO	porphyry
ML	monolithic	IG	igneous	MM	metamorphic
***	'specified lithologies'				

BRECCIA MATRIX (BXM)

qz	quartz	qz-fe	qz-fe ox	qz-ja	qz-jarosite
qz-sx	qz-sulphide	qz-al	qz-alunite	cl	clay
sx	sulphide	al	alunite	pf	pyrophyllite
fe	iron oxides	ja	jarosite	al-pf	al-pyrophyllite
rf	rock flour	OR - a lithology or other mineral species			

THE BRECCIA MATRIX COMPONENT NORMALY DEFINES THE BRECCIA FACIES

LOGGING CODE REFERENCE SET

ALTERATION

ALTERATION FACIES (AFAC)

Principal Facies

PROGRADE
- UA unaltered
- PS sub propylitic
- PR propylitic
- PT potassic
- NA sodic - calcic
- PH phyllic:pro-ms ret-se

RETROGRADE
- IA intermediate arg
- AR argillic
- AA advanced arg
- SI silicification
- CB carbonate
- SK skarn
- QT qz-tourmaline

Variant Facies

- RX recrystallised
- HF hornfels
- MT magnetite (deep PT)
- P2 biotite (2nd PT event)
- K2 kspar (2nd PT event)
- AB aplite (ab or kf)
- SE sericitic (IA) RO
- CH chloritic (IA) roscolite
- ZE zeolite
- HM heamatite
- CE celadonite (LSE)
- SQ sugary quartz (LSE)
- DO dolomite
- JA jasperoid

AA - acid sulphate facies

- SO silica opaline
- SM silica massive
- S1 silica mas vuggy
- S2 silica vuggy mas
- SV silica vuggy
- SG silica granular
- SA silica alunite
- SC silica clay
- CS clay silica
- CA clay alunite
- SP silica patchy
- SW silica wormy
- SH chalcedonic sil
- SY creamy silica
- SF silica pyrophylite
- SD silica diaspore
- DS dark silica (py?)
- CC carbonate granular
- DC carb dissolution

ALTERATION STYLE (ASTY)

PER	pervasive	STR	structure	CLT	clotted
PAT	patchy	BXM	bx matrix	CAV	cavities
FRC	fracture	BXC	bx clast	ICO	int contact
VNS	vein selvage	SED	sed select	SEL	select
VNM	vein matrix	GMS	groundmass	BED	bedding select
CFL	cavity fill	STR	structure	VES	vesicle
				MTX	matrix
				REP	replacement
				PHN	phenocryst
				OPN	o'print

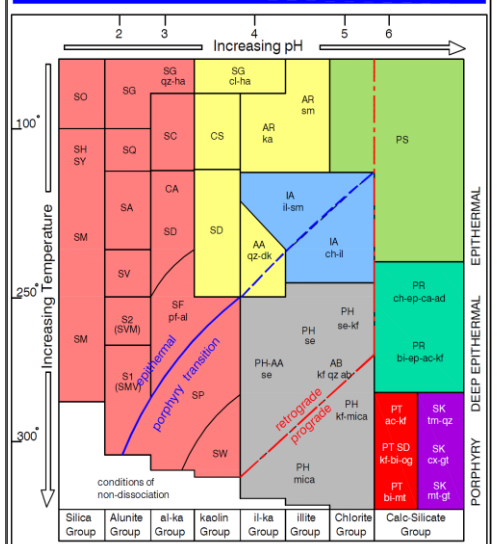
ALT INTENSITY (AINT)

0 nul 1 trace 2 weak 3 moderate 4 strong 5 intense

ALT MINERALS (AMIN)

aa	anatase	co	corundum	ka	kaolinite	ro	roscolite
ab	albite	cs	cristobalite	kf	k-spar	rt	rutile
ac	actinolite	cx	clinopyroxene	la	laumonite	sc	scapolite
ad	adularia	cz	chabazite	lx	lucoxene	se	sericite
al	alunite (udif)	do	dolomite	mm	montmorilonite	sd	siderite
aK	K-alunite	dk	dickite	mt	magnetite	sm	smectite
aN	Na-alunite	di	diaspore	mr	mordenite	su	specularite
aH	NH-alunite	dp	diopside	ms	muscovite	S	native S
ah	anhydrite	ep	epidote	na	natrolite	tc	talc
ax	andalusite	fp	feldspar (udif)	nc	nacrite	tm	tremolite
an	andradite	gl	glass	nt	nontronite	to	tourmaline
ba	barite	gt	garnet (udif)	og	oligoclase	tp	topaz
bi	bioite	gp	gypsum	os	opaline silca	tr	tridymite
ca	calcite	gf	graphite	pa	palygorskite	vs	vesuvianite
cb	carbonate	ha	halloysite	pf	pyrophyllite	wa	wairakite
cd	chalcedony	hu	heulandite	pg	phlogopite	wo	wollastonite
ce	celadonite	il	illite	pr	paragonite	ze	zeolite
ch	chlorite	im	ilmenite	px	pyroxene	zu	zunyite
cl	clay (udif)	ja	jarosite	qz	quartz	zw	zinnwaldite

CEG ALTERATION FACIES TABLE



ALTERATION FACIES AND SUB FACIES - CEG

SJM alteration sub facies overlain on the Corbett & Leach alteration table
Includes the addition of IA to the original Corbett & Leach diagram - codes changed to suit this reference set
Note: Deep porphyry SODIC-CALCIC (SD) & aplite (AB) inserted - approximate

MINERALISATION 1

MINERALISATION TYPE (MTYP)

OX Oxide (no SX) | TR Transition OX & SX | TO Trans OX dom (OX > > SX) | TS Trans SX dom (OX < < SX)
SG Supergene (2° process) | MX Mixed SG/EN/HY (1°& 2°processes) | EN Enriched (1° process) | HY Hypogene (1° Process) | SX Sulphide

MINERALISATION STYLE (MSTY)

DSM	disseminated	MTO	manto	MAS	massive
FFL	fracture filling	MAS	massive	BXM	bx matrix
CFL	cavity filling	MAB	bx mass sx	BXC	bx clast
REP	replacement	COT	coatings	RND	rind on clasts
		VNS	veins selvage	VNN	vein undiff

VEINS

A B cc cc - dd dd - ee ee

- A vein type
- B vein family (porphyries)
- C vein textures (paragenetic order)
- d gangue minerals (paragenetic order)
- e min minerals (paragentic order)

VEIN TEXTURES

ba	banded	bl	bladed
cr	crustiform	dt	dogs tooth
co	colloform	ma	massive
oc	open cavities	gi	ginguro
bo	botryoidal	bm	microbotriodal
ck	cockade	bx	boxwork
cm	comb	lb	lattice bladed
ms	moss	pl	plumose

VEIN TYPES (VTYP)

QVN quartz vein | QXV qz-sulphide vein | SXV sulphide vein | CBV carbonate vein

BUQ	buck qz		
MLQ	milky quartz veins		
EVN	epithermal vns (undif)		
MLV	mesothermal vn (undif)		
QMM	MM sweat veins		
QHV	qz-hm vein		
SIV	silica veinletts		
QPV	qz-py vein		
QLV	qz-lm vein		
NWV	network vns		
NWQ	netwk qz vns		
NWM	netwk mn vns		

LOW SX EP

OPQ	opaline qz	CLQ	clear quartz
CHQ	chalcedonic qz	QAV	qz-adularia vein
SAQ	saccharoidal qz	JAQ	jasperoidal qz vein
CXQ	crystalline qz	AMQ	amethystine qz vein
QCV	qz-cb vein	SGQ	sugary quartz
ADV	adularia vein	QMV	qz-mn carb vein

DOMES

GSV	grey silica vein	DQV	dark qz vein
DSV	dark sx + silica vein	LQV	light qz vein
DCV	dark sx + clay vein	WQV	white qz vein
LSV	light sx + clay vein	QRV	qz-ro vein

CARBONATE

WCV	white carb vein
CXC	clear cx carb vein
GCV	grey carb vein
MCV	mangano carb vein

PORPHYRY

QSV	quartz sericite veins
SEV	sericite veins
WQV	white qz veins
PQV	pink qz veins

Ruptured Porphyries - Lithocap

WMY qz-mt +/- SX - cp bn | RQV qz-hm-py (barren SHV)
GQV grey qz vein +/-SX mt | SXV sulphide veins
ALV alunite veins | PFV pyrophylite veins

Classic high level porphyry veins (HLP)

AVN qz-mt +/- SX - cp bn | CVN SX qz se - cp mo py
BVN qz-SX - cp su | DVN se-SX qz - mo cp py

Deep to intermediate level porphyries (ILP - DLP)

MVN mt veins (whispy) | QMV qz-mt veins +/-SX
BIV bi +/- mt qz → ACV/SEV ACV | ac +/- mt qz → CHV/PQV

MINERALISATION 2

MIN MINERALS (MMIN)

Au	native gold	Cu	native copper	DS	dark sulphides		
Ag	native silver	S	native sulphur	LS	light sulphides		
ai	alcantite	dg	digenite	ne	neotocite		
ae	anglesite						
sb	antimony	el	electrum	or	orpiment		
ar	argentite						
as	arsenopyrite	en	enargite	pm	pitch limonite		
at	atacamite			py	pyrite		
az	azurite	fb	ferberite	pl	pyrolusite		
		fl	flourite	po	pyrrhotite		
ba	barite						
bt	bismuthinite	ga	galena	re	realgar		
bn	bornite	go	geothite				
br	brochantite	Hg	mercury	so	scorodite		
		hm	heamatite	sh	schoelite		
ci	calverite	hs	hessite	sl	selenides		
sn	cassiterite	hz	hydrozincite	sd	siderite		
ct	cerussite			sp	sphalerite		
ck	chalcantite	ja	jarosite	st	stibnite		
cc	chalcocite			ss	sulphosalts		
cp	chalcopyrite	lm	limonite				
cr	chromite	lx	lucoxene	te	tellurides		
cy	chrysocolla			tt	tennantite		
nn	cinnabar	mc	malachite	tn	tenorite		
cv	covellite	ma	marcasite				
cn	cubanite	mo	molybdenite	wd	mn wad		
ct	cuprite	mt	magnetite	zc	zincite		
		mn	mn oxide				

Common vein gangue minerals

qz	quartz	rd	rhodonite	ah	anhydrite
ca	calcite	ro	rosicrucite mica	mt	magnetite
cb	carbonate	to	tourmaline	ba	barite
rc	rhodochrosite	gp	gypsum	ze	zeolite
kf	adularia	rc	rhodochrosite	mn	mn wad

STRUCTURE & EVENTS

PLANNAR FEATURES

BEDDING	BED
CLEAVAGE	SCL
FRACTURE	SFR
JOINT	SJO
FOLIATION	FOL
SCHISTOSITY	SCH

FAULTS

FAULT (UNDIF)	FLT
FAULT-NORMAL	FLN
FAULT-REVERSE	FLR
FAULT-THRUST	FTH

FOLDS

FOLD AXIS	FAX

LINEAR FEATURES

FLOW LINEATION	LFL
IGNEOUS BANDING	LIB
PUMICE ALIGNMENT	LPU

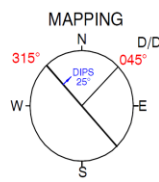
BOUNDARIES

CONTACT (OBSERVED)	CON
CONTACT (INFERRED)	CIN
UNCONFROMITY	UNC
DISCONFORMITY	DIS
VEIN	VEN

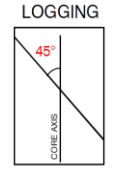
EVENTS

BASE COMPLETE OX	BCO
BASE PARTIAL OX	BPO
BASE SOLUBLE Cu	BSO

MAPPING



LOGGING



STRIKE/DIP (UK)	315°/25° NE
STRIKE/DIP (US)	N45W/25NE
DIP/DIP AZIM	25 °/045°

TO CORE AXIS
CA - ANGLE

RGEOL_QL DATA PLOTS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN

AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007

N346
N347
N341
N343
N344
N345
N342

Soviet Fault

LED-02

QL Lithologies
- Pad fill
- Totally altered
- Fault
- Quartz vein
- Quartz sulphide vein
- Hydrothermal breccia
- Phreatic breccia
- Dacitic porphyry
- Quartz diorite porphyry
- Dioritic porphyry
- Undefined dyke
- Skarn
- Quartz diorite plutonic
- Diorite plutonic
- Quartz andesite
- Andesite
- Basaltic andesite
- Basalt
- Metasediment

Simon J Meldrum

Notes:
WGS84 Datum

Note:

Scale
1 : 16889.87

Plot Date
11-Jun-2025

Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT
RGEOL_QL DATA
LITH_PLT

HAYASA METALS

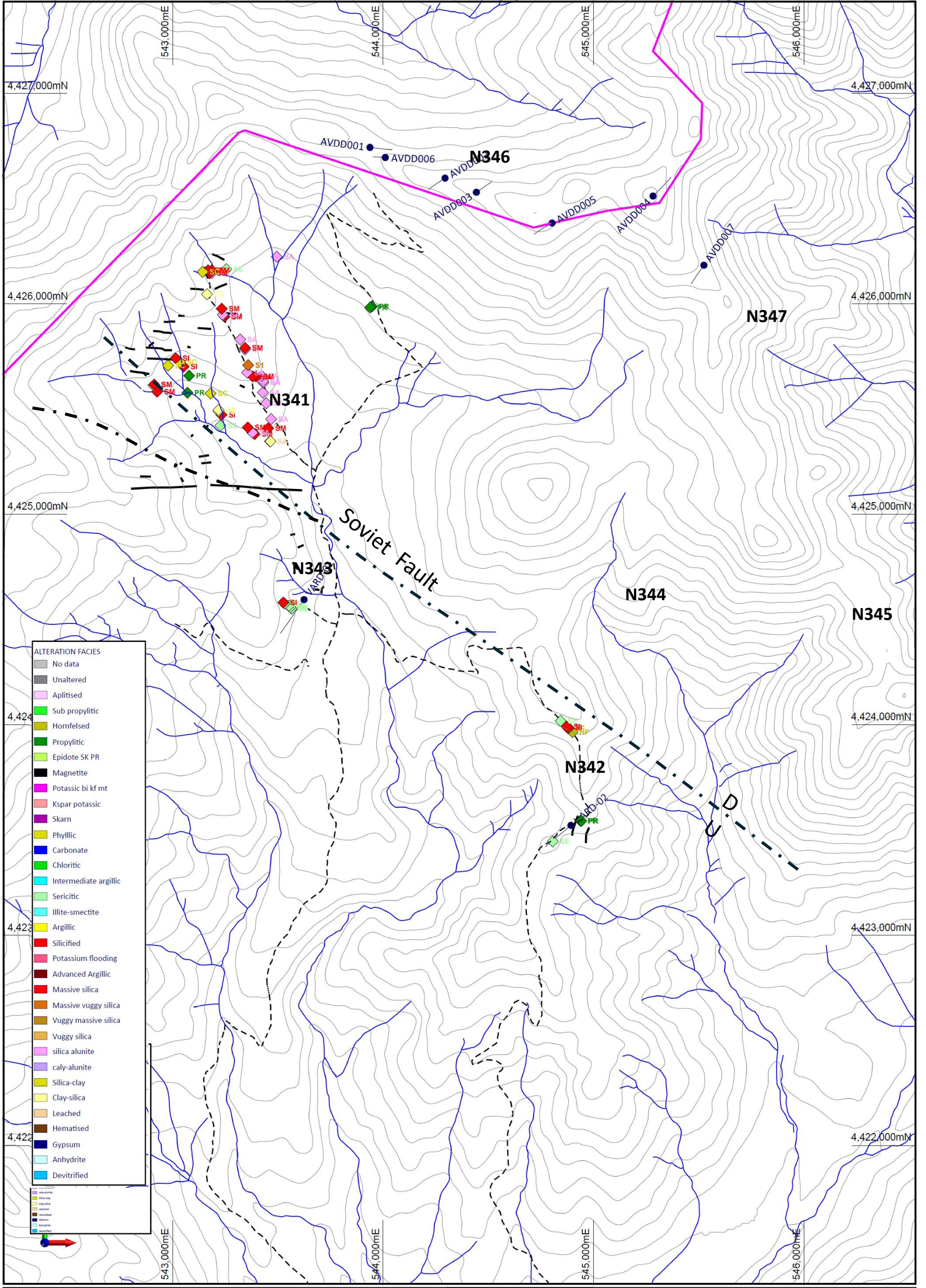
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546,000mE
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4,425,000mN
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4,423,000mN
4,422,000mN
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
N347
N341
N343
N344
N345
N342
Soviet Fault
ALD-02
BX1
BXc
BXf
BXi
BXt
BXj
QL Lithologies
Breccia undiff
Crackle breccia
Jigsaw breccia
Tectonic breccia
Fault breccia
Hydrothemal breccia
Diatreme breccia
Phreatic breccia
Phreatomagmatic bx
Intrusion breccia
Volc breccia
Sed breccia
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_QL DATA
BRECCIA FACIES
HAYASA METALS

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544,000mE
545,000mE
546,000mE
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4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
N347
N341
N343
N344
N345
N342
Soviet Fault
VARD-02
INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_QL DATA
SILICA INTENSITY
HAYASA METALS

543,000mE
544,000mE
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546,000mE
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4,426,000mN
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4,424,000mN
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4,422,000mN
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
N347
N341
N343
N344
N345
N342
Soviet Fault
VARD-01
VARD-02
INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_QL DATA
IRON OXIDE INTENSITY
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
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AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
N347
N341
N343
N344
N345
N342
Soviet Fault
VARD
AVDD-02
INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_QL DATA
CLAY INTENSITY
HAYASA METALS

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544,000mE
545,000mE
546,000mE
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4,426,000mN
4,425,000mN
4,424,000mN
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AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
N347
N341
N343
N344
N345
N342
Soviet Fault
C
D
INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_QL DATA
MAGNETIC INTENSITY
HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum	Note:	Scale 1 : 16889.87 100 0 100 200m	Plot Date 11-Jun-2025 Plot File: Vizex Sheet 1 of 1	VARDENIS PROJECT RGEOL_QL DATA ALT FACIES 1	HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
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4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
N347
N341
N343
N344
N345
N342
Soviet Fault
C
D
ARD-02
MT
SI
PT
SM
SA
SE
SV
AR
ALTERATION FACIES
No data
Unaltered
Aplitised
Sub propylitic
Hornfelsed
Propylitic
Epidote SK PR
Magnetite
Potassic bi kf mt
Kspar potassic
Skarn
Phylllic
Carbonate
Chloritic
Intermediate argillic
Sericitic
Illite-smectite
Argillic
Silicified
Potassium flooding
Advanced Argillic
Massive silica
Massive vuggy silica
Vuggy massive silica
Vuggy silica
silica alunite
caly-alunite
Silica-clay
Clay-silica
Leached
Hematised
Gypsum
Anhydrite
Devitrified
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_QL DATA
ALTERATION 2 FACIES
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN

AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007

N346
N347
N341
N343
N344
N345
N342

Soviet Fault

AA
SI
LH
SA
VARD-02

ALTERATION FACIES
- No data
- Unaltered
- Aplitised
- Sub propylitic
- Hornfelsed
- Propylitic
- Epidote SK PR
- Magnetite
- Potassic bi kf mt
- Kspar potassic
- Skarn
- Phylllic
- Carbonate
- Chloritic
- Intermediate argillic
- Sericitic
- Illite-smectite
- Argillic
- Silicified
- Potassium flooding
- Advanced Argillic
- Massive silica
- Massive vuggy silica
- Vuggy massive silica
- Vuggy silica
- silica alunite
- caly-alunite
- Silica-clay
- Clay-silica
- Leached
- Hematised
- Gypsum
- Anhydrite
- Devitrified

Simon J Meldrum

Notes:
WGS84 Datum

Note:

Scale
1 : 16889.87

Plot Date
11-Jun-2025

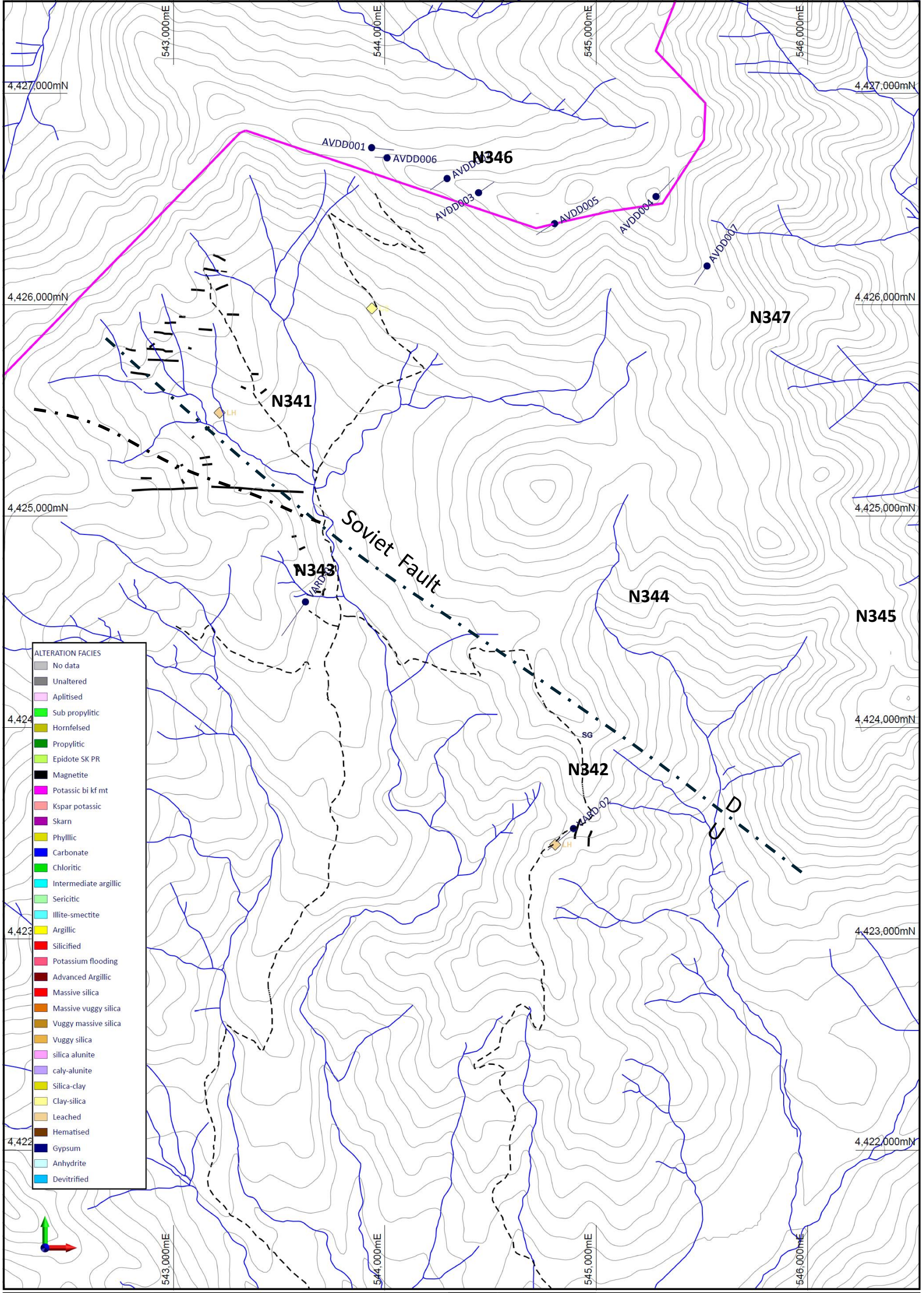
Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT
RGEOL_QL DATA
ALTERATION 3 FACIES

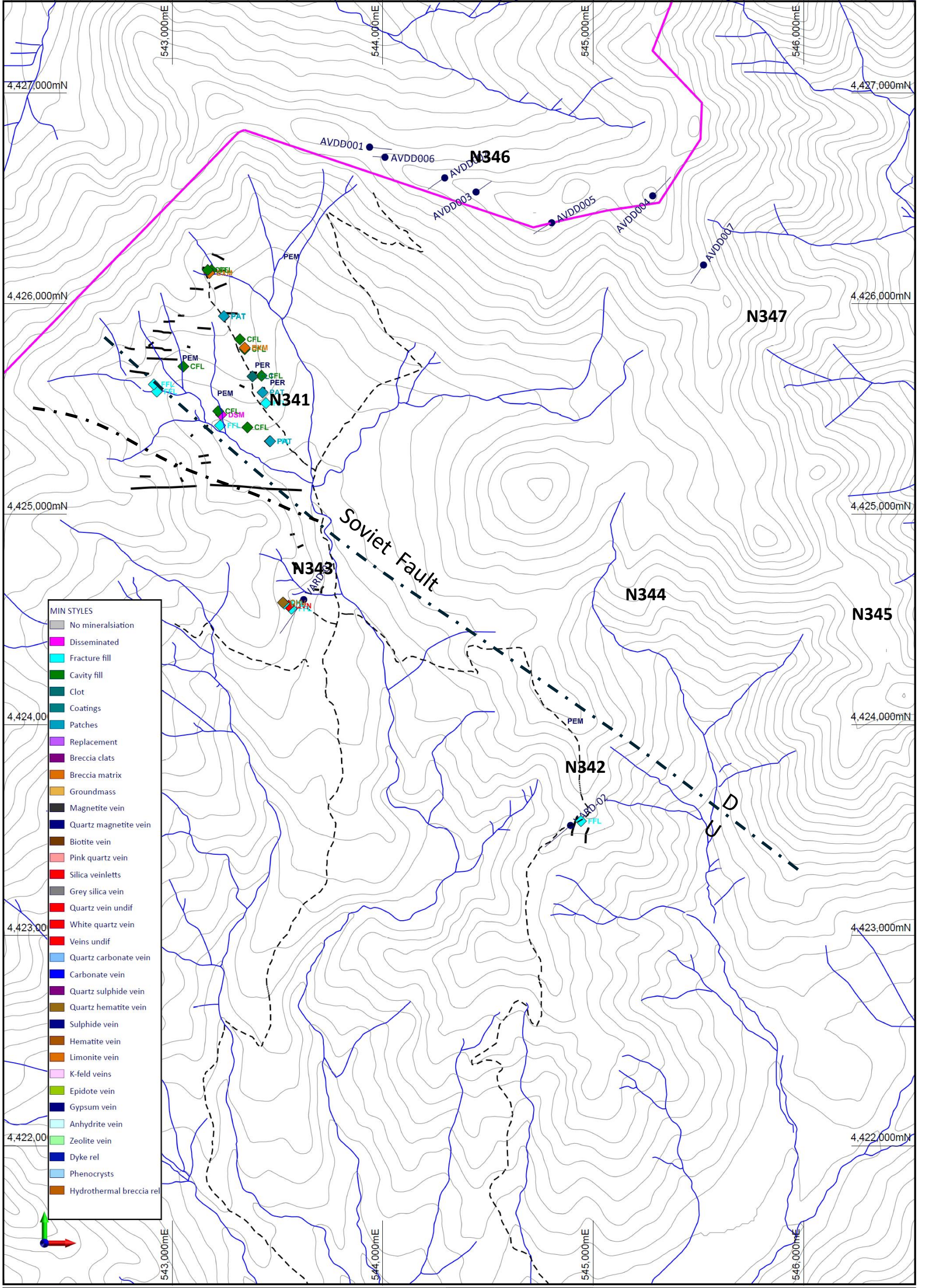
HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum	Note:	Scale 1 : 16889.87 Plot Date 11-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT RGEOL_QL DATA ALTERATION 4 FACIES	HAYASA METALS

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546,000mE
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4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
N347
N341
N343
N344
N345
N342
Soviet Fault
C
D
VARD-01
VLD-02
OX
TR
TO
TS
MIN TYPE
Oxide
Transition Oxide
Transition
Transition Sulphide
Sulphide - Hypogene
Sulphide - Enriched
Sulphide - Supergene
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_QL DATA
MINERALISATION TYPE
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
N347
N341
N343
N344
N345
N342
Soviet Fault
C.D.
MIN STYLES
No mineralsiation
Disseminated
Fracture fill
Cavity fill
Clot
Coatings
Patches
Replacement
Breccia clats
Breccia matrix
Groundmass
Magnetite vein
Quartz magnetite vein
Biotite vein
Pink quartz vein
Silica veinletts
Grey silica vein
Quartz vein undif
White quartz vein
Veins undif
Quartz carbonate vein
Carbonate vein
Quartz sulphide vein
Quartz hematite vein
Sulphide vein
Hematite vein
Limonite vein
K-feld veins
Epidote vein
Gypsum vein
Anhydrite vein
Zeolite vein
Dyke rel
Phenocrysts
Hydrothermal breccia rel
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_QL DATA
MINERALISATION STYLE 1
HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum	Note:	Scale 1 : 16889.87 Plot Date 11-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT RGEOL_QL DATA MINERALISATION STYLE 2	HAYASA METALS

543,000mE
544,000mE
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546,000mE
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4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
N347
N341
N343
N344
N345
N342
LGB
PEM
FFL
QHV
QZV
VARD-02
Soviet Fault
C.D.

MIN STYLES
- No mineralsiation
- Disseminated
- Fracture fill
- Cavity fill
- Clot
- Coatings
- Patches
- Replacement
- Breccia clats
- Breccia matrix
- Groundmass
- Magnetite vein
- Quartz magnetite vein
- Biotite vein
- Pink quartz vein
- Silica veinletts
- Grey silica vein
- Quartz vein undif
- White quartz vein
- Veins undif
- Quartz carbonate vein
- Carbonate vein
- Quartz sulphide vein
- Quartz hematite vein
- Sulphide vein
- Hematite vein
- Limonite vein
- K-feld veins
- Epidote vein
- Gypsum vein
- Anhydrite vein
- Zeolite vein
- Dyke rel
- Phenocrysts
- Hydrothermal breccia rel

Simon J Meldrum

Notes:
WGS84 Datum

Note:

Scale
1 : 16889.87

Plot Date
11-Jun-2025

Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT
RGEOL_QL DATA
MINERALISATION STYLE 3

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
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4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
N347
N341
N343
N344
N345
N342
CXQ
PFV
QLV
SGQ
QHV
SIV
MTV
GSV
ALRD-02
Soviet Fault
C.D.
VEIN TYPES
Carbonate vein
Anhydrite vein
Gypsum vein
Epidote vein
Biotite Vein
Magnetite vein
Quartz magnetite vein
Pink qz vein (BIV?)
Sericite vein
Quartz sericite vein
QCV
Quartz vein
Silica veinlett
Grey quartz vein
White quartz vein
Quartz sulphide vein
Sulphide vein
Quartz hematite vein (QXV)
Hematite vein (SXV)
Limonite vein (SXV)
Brecciated vein
Zeolite vein

Simon J Meldrum

Notes:
WGS84 Datum

Note:

Scale
1 : 16889.87

Plot Date
11-Jun-2025

Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT
RGEOL_QL DATA
VEIN TYPE 1

HAYASA METALS

543,000mE
544,000mE
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4,426,000mN
4,425,000mN
4,424,000mN
4,423
4,422

AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007

N346
N347
N341
N343
N344
N345
N342

Soviet Fault

VARD-1
VARD-2

VEIN TYPES
- Carbonate vein
- Anhydrite vein
- Gypsum vein
- Epidote vein
- Biotite Vein
- Magnetite vein
- Quartz magnetite vein
- Pink qz vein (BIV?)
- Sericite vein
- Quartz sericite vein
- QCV
- Quartz vein
- Silica veinlett
- Grey quartz vein
- White quartz vein
- Quartz sulphide vein
- Sulphide vein
- Quartz hematite vein (QXV)
- Hematite vein (SXV)
- Limonite vein (SXV)
- Brecciated vein
- Zeolite vein

Simon J Meldrum

Notes:
WGS84 Datum

Note:

Scale
1 : 16889.87

Plot Date
11-Jun-2025

Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

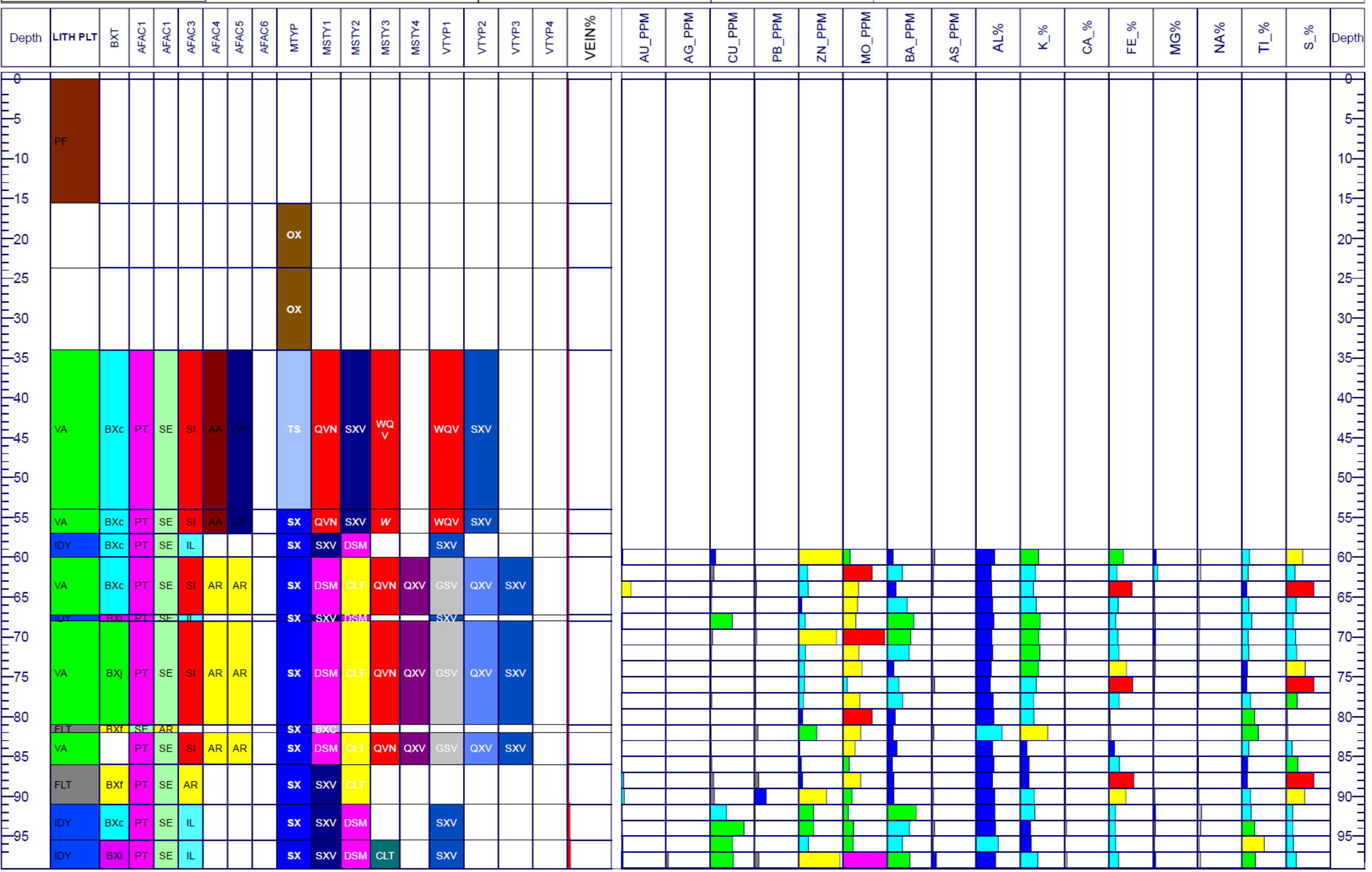
VARDENIS PROJECT
RGEOL_QL DATA
VEIN TYPE 2

HAYASA METALS

INTERPRETATIVE DRILL LOGS

HOLE_NO	FROM	TO	INT	NOTE	LITH	LITH_PLT	BXT	BXC	BXM	BM%	SI	FE	CL	mt	AFAC	ASTY	AINT	A1	A2	A3	A4	A5	A6	A7	MTYP	MSTY	MINT	M1	M2	M3	M4	M5	M6	VTYP	V%
VARD-01	0	15.6	16		PF																				OX										
VARD-01	15.6	23.7	8.1	Tephra	T VA																				OX										
VARD-01	23.7	34	10		T VAclt																				OX										
VARD-01	34	20.5	-14	volc?	TO / V fq P m		BXc	TO / IG	VNS	3	2.5	0.4	0.3	0.0	PT SE SI AA GP	PER PER VNS PAT VNS	14121	se	qz	il	kf	al	pf	gp	TS	QVN SXV WQV	121		py	lm	hm	cc	mo	WQV_py SXV_pymocc HMV	120.5
VARD-01	20.5	57	37	volc?	TO / V fq P m		BXc	TO / IG	VNS	3	2.5	0.4	0.3	0.0	PT SE SI AA GP	PER PER VNS PAT VNS	14121	se	qz	il	kf	al	pf	gp	SX	QVN SXV WQV	121		py			cc	mo	WQV_py SXV_pymocc	12
VARD-01	57	60	3	volc?	IDYdi f(q) P f		BXc	TO / IG	VNS	0.4	1.8	0.0	0.0	0.0	PT SE IL	PER PER PER	142	se		cl	il	qz	kf		SX	SXV DSM	11					py	cc	SXV_pycc	0.4
VARD-01	60	67.2	7.2	volc?	TO / V fq P mf		BXc	TO / IG	VNS	5	2.8	0.0	0.4	0.0	PT SE SI AR AR	PHN PER VNS PHN STR	12112	se		qz		bi	cl	al	SX	DSM CLT QVN QXV SXV FF	121221			py		mo	cp	GSV_mo QXV_pysp SXV_pygp	0.52.52
VARD-01	67.2	68	0.8	Dyke	IDYdi f(q) P f		BXi	TO / IG	VNS	0.5	1.8	0.0	0.0	0.0	PT SE IL	PER PER PER	142	se		cl	il	qz	kf		SX	SXV DSM	11					py	cc	SXV_pycc	0.5
VARD-01	68	81	13	volc?	TO / V fq P mf		BXj	TO V	VNS	5	2.8	0.0	0.4	0.0	PT SE SI AR AR	PHN PER VNS PHN STR	12112	se		qz		bi	cl	al	SX	DSM CLT QVN QXV SXV FF	121221			py		mo	cp	GSV_mo QXV_pysp SXV_pygp	0.52.52
VARD-01	81	82	1		FLT		BXf		cl	20	0.2	0.0	2.0	0.0	SE AR	BXC BXM	34	se	cl						SX	BXC	1					py			0
VARD-01	82	86	4	volc?	TO / V fq P mf			TO / IG	VNS	5	2.8	0.0	0.4	0.0	PT SE SI AR AR	PHN PER VNS PHN STR	12112	se		qz		bi	cl	al	SX	DSM CLT QVN QXV SXV FF	121221			py		mo	cp	GSV_mo QXV_pysp SXV_pygp	0.52.52
VARD-01	86	91	5	volc?	FLT ZONE		BXf	IDY SX	py cl	20	2.0	0.0	3.0	0.0	PT SE AR	BXC BXC BXM	134	cl	se		qz	kf			SX	SXV CLT STR	231		py						SXV_py	3
VARD-01	91	95.5	4.5	dyke?	IDYdi f(q) P f		BXc	TO / IG	VNS	3	1.8	0.0	0.2	0.0	PT SE IL	PER PER PER	142	se			il	qz	kf	cl	SX	SXV DSM	11					py			SXV_py	3
VARD-01	95.5	100	4.5	dyke?	IDYdi f(q) P f		BXi	TO / IG	VNS	4	1.8	0.0	0.7	0.0	PT SE IL	PER PER PER	142	se		cl	il	qz	kf		SX	SXV DSM CLT	113			py	cp	cc	mo	SXV_pycp	4
VARD-01	100	102.6	2.6	Framboidal PY	QXV		BXj	TO / IG	VNS	70	3.9	0.0	0.7	0.0	PT SE SI AR	BXC BXC VNS STR	2351	qz		gp	kf	se	cl		SX	QXV	5		py		sp	ga	mo	QXV_gp_pyspgamo	70
VARD-01	102.6	108.5	5.9	volc?	IDYdi f(q) P m		BXi	TO / IG	VNS	0.7	2.2	0.0	0.7	0.0	PT SE SI	PAT PER VNS	131	se		qz				bi	SX	QVN SXV CLT DSM	1111					py	mo	WQV SXV_py	0.20.5
VARD-01	108.5	111.1	2.6	Dyke	IDY fm		BXc	TO / IG	VNS	2	2.0	0.0	0.2	0.0	PT SE IL	PAT PER PER	242	se			il	qz	kf	bi	SX	QXV SXV	22				py			QXV SXV	11
VARD-01	111.1	114.6	3.5	volc?	TO / V fq P mf		BXc	TO / IG	VNS	0.7	2.2	0.0	0.4	0.0	PT SE SI	PAT PER VNS	131	se		qz				bi	SX	QVN SXV CLT DSM	1111					py	mo	WQV SXV_py	0.20.5
VARD-01	114.6	122.5	7.9	Dyke	TO / IDY fq P fm		BXc	IDY SX	VNS	2.7	1.7	0.0	0.0	0.0	SE SI SI	PER VNS PAT	512	se	il		qz				SX	QXV SXV	21					py		QXV SXV	1.71
VARD-01	122.5	125	2.5	volc?	TO / V fq P mf		BXc	TO IG	VNS	0.7	2.2	0.0	0.4	0.0	PT SE SI	PAT PER VNS	131	se		qz				bi	SX	QVN SXV CLT DSM	1111					py	mo	WQV SXV_py	0.20.5
VARD-01	125	132	7	Dyke	TO / IDY fq P fm		BXc	IDY SX	VNS	2.7	1.7	0.0	0.0	0.0	SE SI SI	PER VNS PAT	512	se	il		qz	kf			SX	QXV SXV	21					py		QXV SXVse_py	1.71
VARD-01	132	156	24		TO / V fq P fm		BXc	TO / IG	VNS	0.6	2.3	0.0	0.0	0.0	PT SE	PER PER	13	se			qz		kf		SX	QCV SXV FFL	111						py	QXV SXV	0.30.3
VARD-01	156	161	5		TO / V fq P mf		BXc	TO / IG	VNS	1.2	2.0	0.0	0.0	0.0	PT IA SE SI	PER CLT PAR VNS	1231	se	il	qz			bi		SX	CLT QXV SXV AHV	1111			py			cc	QXV_pycc SXV_py AHV	0.50.50.2
VARD-01	161	166	5		TO / V fq P mf		BXc	TO / IG	VNS	5	2.7	0.0	0.0	0.0	PT IA SE SI	PER CLT PAR VNS	1231	se	il	qz			bi		SX	CLT QXV SXV AHV	1111			py			cc	QXV_pycc SXV_py AHV	0.50.50.2
VARD-01	166	168.6	2.6		QXV		BXh	TO / IG	QXV	45	2.9	0.0	1.4	0.0	SE SI GP	BXC BXM FRC	242	qz		se		gp			SX	QXV GPV	42		py					QXV-pysp GPV	432
VARD-01	168.6	180	11		TO / V fq P mf		BXc	TO / IG	VNS	5	2.7	0.0	0.0	0.0	PT IA SE SI	PER CLT PAR VNS	1231	se	il	qz			bi		SX	CLT QXV SXV AHV	1111			py				QXV_pycc SXV_py AHV	0.50.50.2
VARD-01	180	182	2		IDYdi D ?		BXf	TO / IG	cl	15	1.0	0.0	0.0	1.1	PR PT SE AR	PAT PAT PAT STR	2213	bi	ch	cl	se			ca	SX	SEV CBV	11						py	PQV SEV CBV	0.221
VARD-01	182	187	5	SCC	TO / V fq P mf		BXc	TO / IG	VNS	5	2.7	0.0	0.0	0.0	PT IA SE SI	PER CLT PAR VNS	1231	se	il	qz			bi		SX	CLT QXV SXV AHV	1121		py					QXV_pycc SXV_py AHV	0.51.50.2
VARD-01	187	205.7	19	Int?	TO / IDY fq P fm		BXi	VA	IDY	60	2.9	0.0	0.2	0.0	SE IL PT SE IA AH	BXC BXC PER PER CLT VN	431311	se	qz	il	ch		ah	bi	SX	BXC QXV SXV AHV	2221			py				QXV SXV AHV	0.81.50.1
VARD-01	205.7	214.4	8.7	SXV c BROAD sech halos	TO / IDY fq EP m		BXi	TO / V	IDY	90	1.7	0.0	0.0	0.0	PT IA SE SI CH	PER PER PER VNS VNS	12311	se		qz		ch	bi	lx	SX	CLT QVN SXV	113				py	cp	mo	WQV_mocp SXV_py SXV_sech_py	0.121
VARD-01	214.4	217.8	3.4		IDY f P mf CR D		BXi	TO - SE	IDY	70	1.0	0.0	0.0	0.7	PT SE PT IA SI SE	BXC BXC BXM BXM BXM VI	133211	se		ch	bi	qz	mt	lx	SX	BXC QVN SXV	112			py				WQV SXV_se_py	0.41.8
VARD-01	217.8	226.2	8.4	SCC	IHdi fq EP m		BXc	IH	VNS	3	1.7	0.0	0.0	0.0	PT IA SE SI CH	PER PER PER VNS VNS	12311	se		qz		ch	bi	lx	SX	QVN CLT SXV	111					py	mo	WQV_mo SXV_py SXV_sech_py	0.121
VARD-01	226.2	255.8	30		VAct f P fm		BXc	VA	VNS	1.5	1.8	0.0	0.0	0.4	PR PT SE SE SI	PER VNS PAT FRC VNS	21121		ch	se	qz		kf	bi	SX	QVN SXV	21					py		GSV QXV SXV_se_py	10.50.5
VARD-01	255.8	266.5	11		IHdi fq EP m		BXc	IH	VNS	12	1.5	0.0	0.3	0.0	PT IA SE CH SI AR	PER CLT PER VNS VNS STR	113221	se	qz	ch	cl	kf	bi	lx	SX	CLT QVN SXV	123			py				GSV_ch SXV_py SXV_sech_py	922
VARD-01	266.5	275	8.5	SCC	IHdi fq EP m		BXc	IH	VNS	2.7	1.7	0.0	0.0	0.0	PT IA SE SE AH	PER CLT PER VNS VNS	12311	se		qz		bi		lx	SX	CLT QVN SXV	112						py	GSV_CL SXV_qz_py SXV_ch_py AHV	0.11.50.1
VARD-01	275	284.5	9.5		IHdi fq EP fm CR		BXi	VA	IH	80	2.0	0.0	0.2	0.0	PT IA SE SI AR	PER PAT PAT VNS STR	12311	se			qz	ch	bi	ah	SX	QVN QXV SXV AHV	1121			py			sp	WQV QXV SXV	12.51.5
VARD-01	284.5	288.5	4	SCC	IHdi fq EP m		BXc	IH	VNS	0.7	1.7	0.0	0.0	0.0	PT IA SE SE AH	PER CLT PER VNS VNS	12311	se		qz		bi		lx	SX	CLT QVN SXV AHV	112					py		GSV_CL SXV_qz_py AHV	0.10.50.1
VARD-01	288.5	309	21		VAct f P fm ?		BXc	VA	VNS	0.9	1.8	0.0	0.0	0.4	PR SE SE SI	PER PAT FRC VNS	2121		ch	se	qz		kf		SX	QVN SXV	21					py		GSV QXV SXV_se_py	0.20.50.5
VARD-01	309	316.5	7.5	Sheared	VAct fb EP mf		BXc	VA	VNS	11	1.4	0.0	0.4	0.0	PT SE SI SE AR	PER PR VNS STR STR	13222	se			qz	ch			SX	SXV QXV								SXV_py QXV_ch_pysp	
VARD-01	316.5	316.7	0.2	Just alt?	IDY f P f ?		BXi																		SX	SXV									
VARD-01	316.7	344	27		VAct fb EP mf		BXc	VA	VNS	2	2.0	0.0	0.0	0.0	PT IA SE SI	PER CLT PER PAT	1232	se		qz		ch	bi		SX	CLT SXV	11				py			SXV_py SXV_chqz_py	0.51.9
VARD-01	344	355	11		TO / IG fq EP m		BXg	TO	qz VNS	30	2.8	0.0	0.3	0.0	PT IA SI AR SI	PER PER PAT STR VNS	12411	se	qz			cl	ch	to	SX	CLT SXV QVN	151		py					SXV_seqz_py GSV_py SXV_py	250.23
VARD-01	355	360.1	5.1		VAct fb EP mf		BXc	VA	VNS	2	2.0	0.0	0.0	0.0	PT IA SE SI	PER CLT PER PAT	1232	se		qz		ch	bi		SX	CLT SXV	11				py			SXV_py SXV_chqz_py	0.51.9
VARD-01	360.1	370	9.9		TO / IG fq EP m		BXg	TO	qz VNS	30	2.8	0.0	0.3	0.0	PT IA SI AR SI	PER PER PAT STR VNS	12411	se	qz			cl	ch	to	SX	CLT SXV QVN	151		py					SXV_seqz_py GSV_py SXV_py	250.23
VARD-01	370	391.5	22		VAct fb EP mf		BXc	TO IG	VNS	3.5	1.4	0.0	0.1	0.0	PT IA SE GP	PER PER PER FRC	1231	se			qz	il	gp	bi	SX	CLT SXV	12				py			SXV_py SXV_seqz_py	0.53
VARD-02	0	2	2		TO / IG fq EP m		BXj				2.3	0.1	0.9	0.0	SE AA	PER FRC	52	se					al		OX	FFL	1						lm		0
VARD-02	2	7.6	5.6		FLT		BXf	TO / IG	cl cg	52	0.2	0.3	4.5	0.0	SI CG	BXC BXM	25	cl				qz			OX	BXC	1				lm				0
VARD-02	7.6	19.4	12		TO / IG fq EP m						2.0	0.2	1.8	0.0	SE AA AR	PER PER STR	423	se		cl			al		OX	FFL	2				lm		hm		0
VARD-02	19.4	36.7	17		TO / IG fq EP m		BXj				1.9	0.0	0.5	0.0	PT SE SC AR	PER PER PER STR	1341	se	il	qz	cl	kf	al	pf	SX	SXV DSM	22			py				SXV_py PFV	50.1
VARD-02	36.7	51	14		IPdi fb E mc		BXc	IP	VNS	2	2.4	0.0	0.2	0.0	PT IA SE SI GP	PER PER PAT VNS VNS	13311	se		qz		ch	gp		SX	CLT QXV SXV GPV	1111				py			QXV SXV GPV	0.11.5.2
VARD-02	51	62	11	FLT	TO / IPdi fb E mc		BXj	TO / IG	VNS	9	3.5	0.0	0.2	0.0	PT SE IA SI GP	PAT PER PER VNS FRC	23232	se	qz		il	kf	gp		SX	CLT QVN SXV GPV	1223		py				mo	WQV_mo SXV_py GPV	3.525
VARD-02	62	63.9	1.9		FLT		BXf	TO / IG	cl py	40	0.5	0.0	3.0	0.0	SE SI AR	BXC BXC BXM	224	cl			se		qz		SX	DSM	2				py	sp			0
VARD-02	63.9	72.5	8.6		IPdi f E m		BXc	IP	VNS	1.5	1.7	0.0	0.0	0.0	PT SE IA GP	PER PER PAT VNS	1321	se			kf	qz	gp		SX	CLT GPV	21					py		GPV	1.5
VARD-02	72.5	74.8	2.3		MSd / SSd / VA		BXc		GPV	3.4	0.6	0.0	0.0	1.5	HF PR SE GP	PER PAT PAT FRC	3222			se	ch	gp	kf		SX	SXV GPV	13					py		SXV_kf_py GPV	1.53.5
VARD-02	74.8	77.2	2.4		IDYdi f e mf		BXc	IP	VNS	1.5	1.7	0.0	0.0	0.0	PT SE IA GP	PER PER PAT VNS	1321	se			kf	qz	gp		SX	CLT GPV	21					py		GPV	1.5
VARD-02	77.2	88	11		MSd / SSd / VA		BXc		GPV	3.4	0.6	0.0	0.0	1.5	HF PR SE GP	PER PAT PAT FRC	3222			se	ch	gp	kf		SX	SXV GPV	13					py		SXV_kf_py GPV	1.53.5
VARD-02	88	100	12		TO / VBA		BXc		GPV	3.4	0.6	0.0	0.0	1.5	HF PR SE GP	PER PAT PAT FRC	3222				ch	se	gp	kf	SX	SXV GPV	13					py		SXV_kf_py GPV	1.53.5
VARD-02	100	132.3	32		MSED / VBA		BXc				0.5	0.0	0.0	2.4	HF PR SK GP	PER PER PAT FRC	3222				ch	gp	kf	ep	SX	SXV GPV	13					py		SXV_kf_py GPV	1.22.5
VARD-02	132.3	132.5	0.2		FLT		BXf		SI		3.4	0.0	0.0	0.0											SX									
VARD-02	132.5	138.6	6.1		MSED / VBA		BXc				0.5	0.0	0.0	2.4	HF PR SK GP	PER PER PAT FRC	3222				ch	gp	kf	ep	SX	SXV GPV	13					py		SXV_kf_py GPV	1.22.5
VARD-02	138.6	144.5	5.9		VBA		BXc	VBA	VNS	1.8	1.0	0.0	0.2	0.0	HF SE AA GP	PER PER PAT FRC	3322		se			al	gp		SX	SXV GPV	12						py	SXV_py GPV ALV	0.21.50.2
VARD-02	144.5	147	2.5		FLT		BXf		CG cl		0.0	0.0	4.0	0.0	AR CG	STR STR	33	cl					al		SX	nil									O
VARD-02	147	152	5		VBA		BXc	VBA	VNS	1.8	1.0	0.0	0.2	0.0	HF SE AA GP	PER PER PAT FRC	3322		se			al	gp		SX	SXV GPV	12						py	SXV_py GPV ALV	0.21.50.2
VARD-02	152	161.5	9.5		MSED / VBA		BXf	TO / PL	se gp	20	2.0	0.0	0.0	0.0	HF SE AR GP	BXC BXC BXM BXM	3343	se		gp	qz	cl	ca		SX	QXV SEV GPV	132					py		QXV_py GPV	0.21
VARD-02	161.5	163	1.5		FLT		BXf	VBA	cl	40	0.0	0.0	4.5	0.0	AR	STR STR	5	cl				se			SX	nil									0
VARD-02	163	171	8		IDY f PE f		BXi	VBA	IDY	90	1.4	0.0	0.0	0.0	PT IA SE GP	PER PAT PER FRC	1232	se				gp	ch		SX	GPV CLT SEV	2						py	GPV	2
VARD-02	171	192.4	21		MVBA		BXv	VBA	VNS	2.5	0.3	0.0	0.0	1.8	HF CH GP	PER PAT FRC	321			ch	se		gp		SX	GPV CLT SEV	211						py	GPV SEV	1.51
VARD-02	192.4	192.7	0.3		SKN						1.5	0.0	0.0	0.0	SK	PER	3	se	ch	kf	qz			gp	SX	GPV	1							GPV	2
VARD-02	192.7	200	7.3		MVBA		BXv	VBA	VNS	2.5	0.3	0.0	0.0	1.8	HF CH GP	PER PAT FRC	321			ch	se		gp		SX	GPV CLT SEV	211						py	GPV SEV	1.51

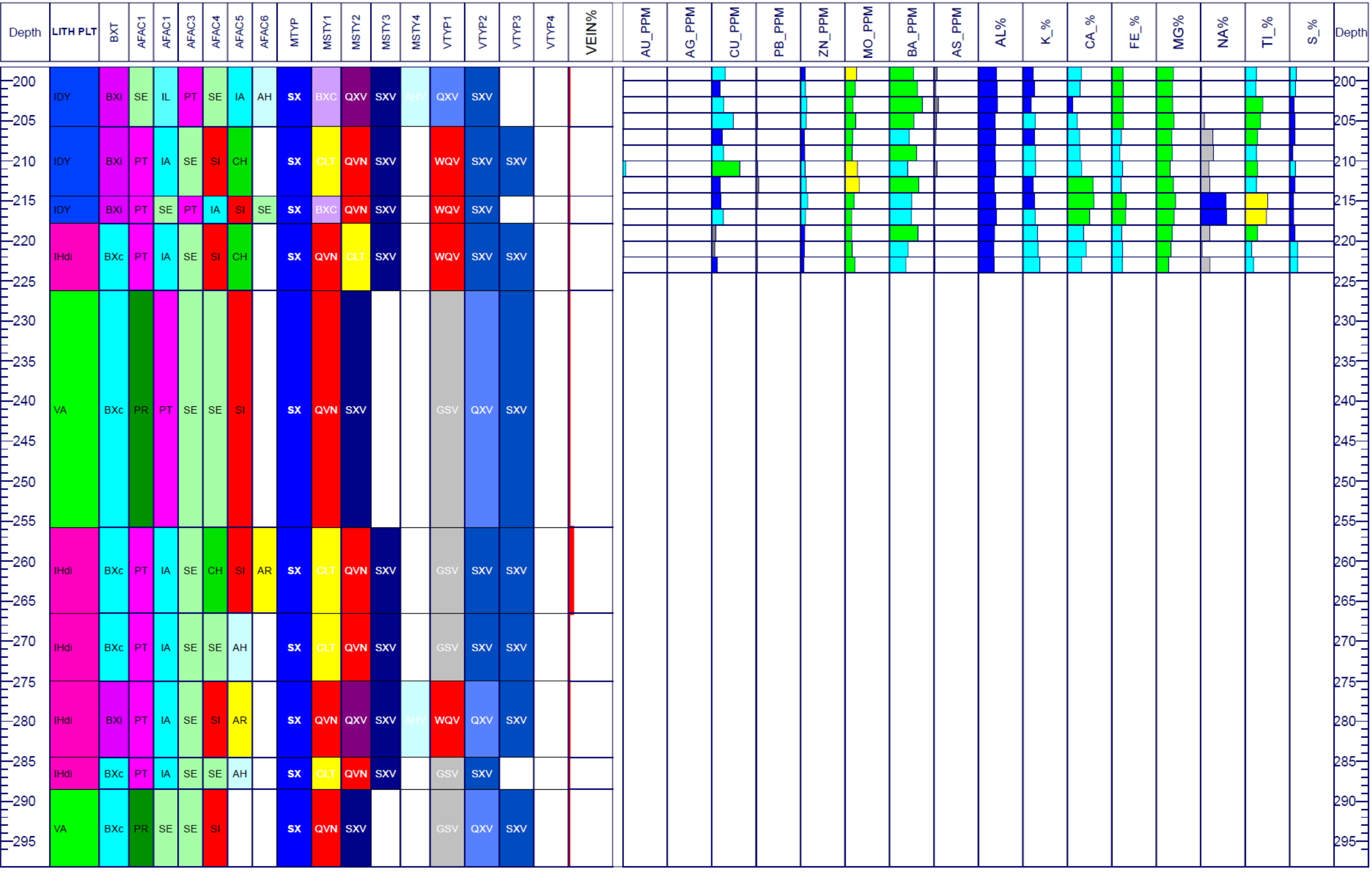
VARDENIS PROJECT N34_DGEOL_QL	HOLE_NO : VARD-01	EAST 84 : 543625.70 NORTH 84 : 4424595.00 Z : 2713.00	EOH = 391.50 m	SUMMARY DATA	Page 1 of 4



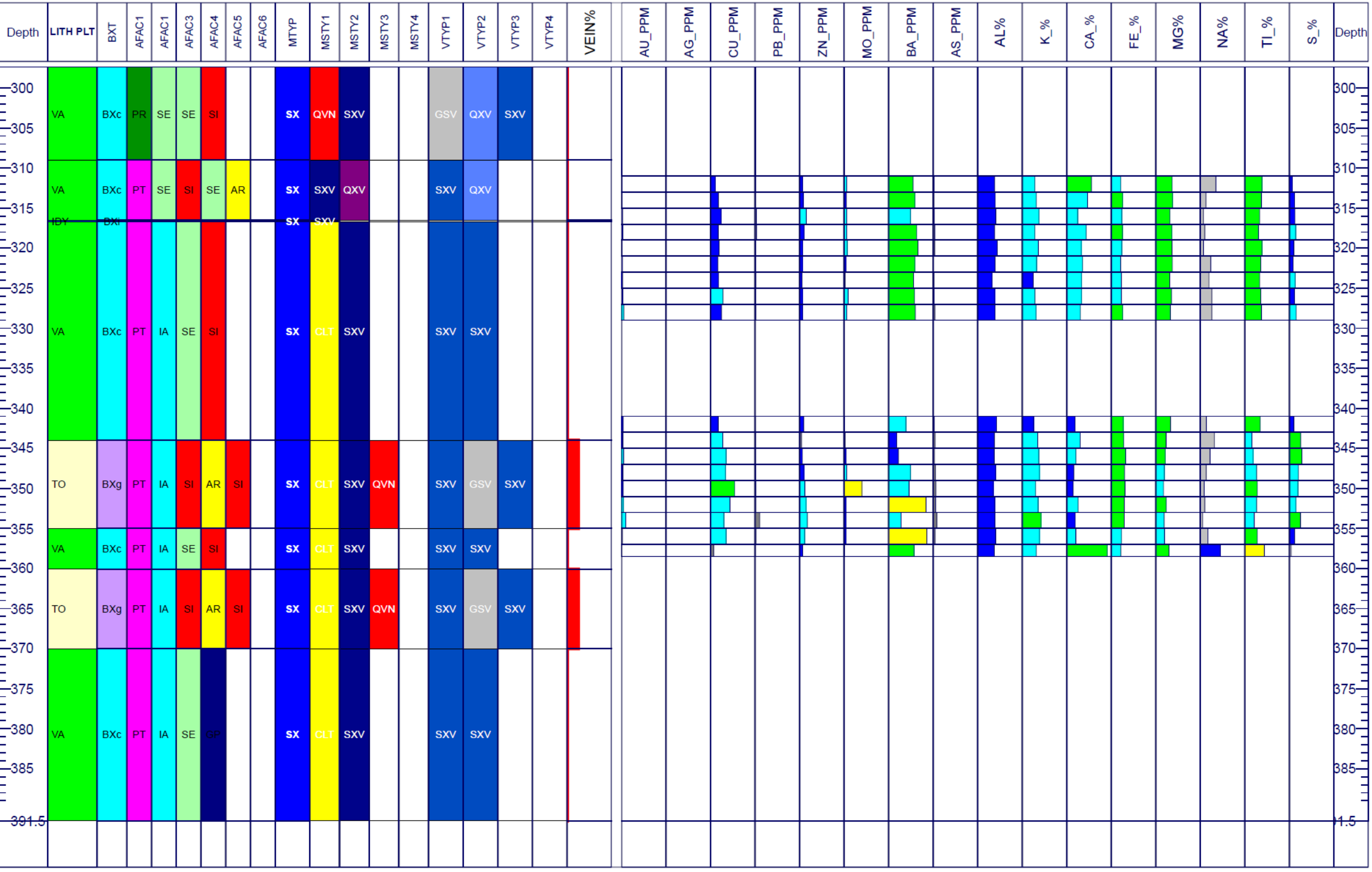
VARDENIS PROJECT N34_DGEOL_QL	HOLE_NO : VARD-01	EAST 84 : 543625.70 NORTH 84 : 4424595.00 Z : 2713.00	EOH = 391.50 m	SUMMARY DATA	Page 2 of 4

Depth	LITH PLT	BXT	AFAC1	AFAC1	AFAC3	AFAC4	AFAC5	AFAC6	MTYP	MSTY1	MSTY2	MSTY3	MSTY4	VTYP1	VTYP2	VTYP3	VTYP4	VEIN%	AU_PPM	AG_PPM	CU_PPM	PB_PPM	ZN_PPM	MO_PPM	BA_PPM	AS_PPM	AL%	K_%	CA_%	FE_%	MG%	NA%	TI_%	S_%	Depth
	IDY	BXi	PT	SE	IL				SX	SXV	DSM	CLT		SXV																					
	QXV	BXj	PT	SE	SI	AR			SX	QXV				QXV																					
105	IDY	BXi	PT	SE	SI				SX	QVN	SXV	CLT	DSM	WQV	SXV																				105
110	IDY	BXc	PT	SE	IL				SX	QXV	SXV			QXV	SXV																				110
	VA	BXc	PT	SE	SI				SX	QVN	SXV	CLT	DSM	WQV	SXV																				
115	IDY	BXc	SE	SI	SI				SX	QXV	SXV			QXV	SXV																				115
120																																		120
	VA	BXc	PT	SE	SI				SX	QVN	SXV	CLT	DSM	WQV	SXV																				
125	IDY	BXc	SE	SI	SI				SX	QXV	SXV			QXV	SXV																				125
130																																		130
135																																		135
140																																		140
145	VA	BXc	PT	SE					SX	QCV	SXV	FFL		QXV	SXV																				145
150																																		150
155																																		155
160	VA	BXc	PT	IA	SE	SI			SX	CLT	QXV	SXV	AHV	QXV	SXV																				160
165	VA	BXc	PT	IA	SE	SI			SX	CLT	QXV	SXV	AHV	QXV	SXV																				165
	QXV	BXh	SE	SI	GP				SX	QXV				QXV																				
170	VA	BXc	PT	IA	SE	SI			SX	CLT	QXV	SXV	AHV	QXV	SXV																				170
175																																		175
180	IDY	BXf	PR	PT	SE	AR			SX	SEV	CBV			PQV	SEV	CBV																			180
	VA	BXc	PT	IA	SE	SI			SX	CLT	QXV	SXV	AHV	QXV	SXV																				
185																																		185
190	IDY	BXi	SE	IL	PT	SE	IA	AH	SX	BXC	QXV	SXV	AHV	QXV	SXV																				190
195																																		195

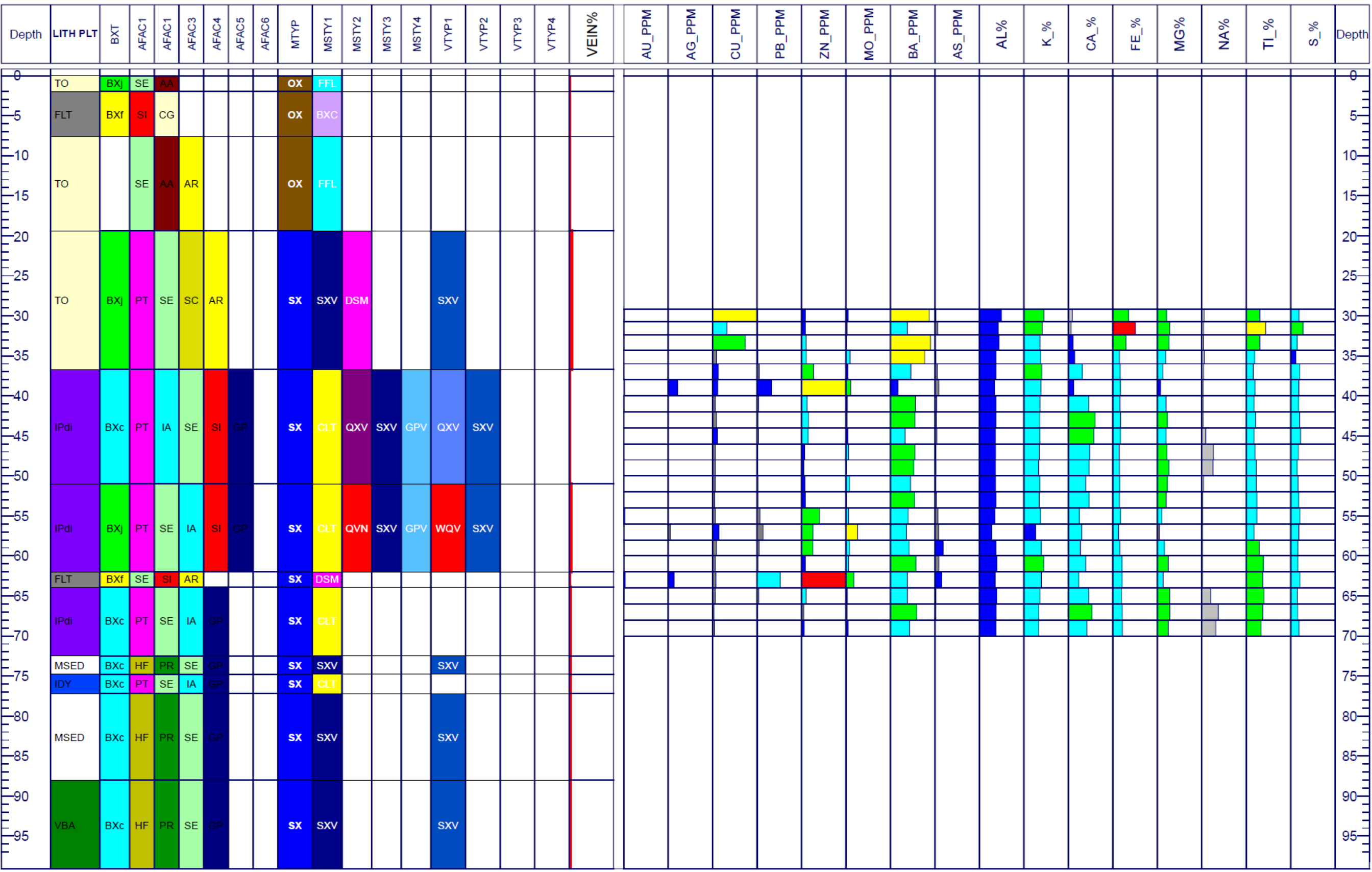
VARDENIS PROJECT N34_DGEOL_QL	HOLE_NO : VARD-01	EAST 84 : 543625.70 NORTH 84 : 4424595.00 Z : 2713.00	EOH = 391.50 m	SUMMARY DATA	Page 3 of 4



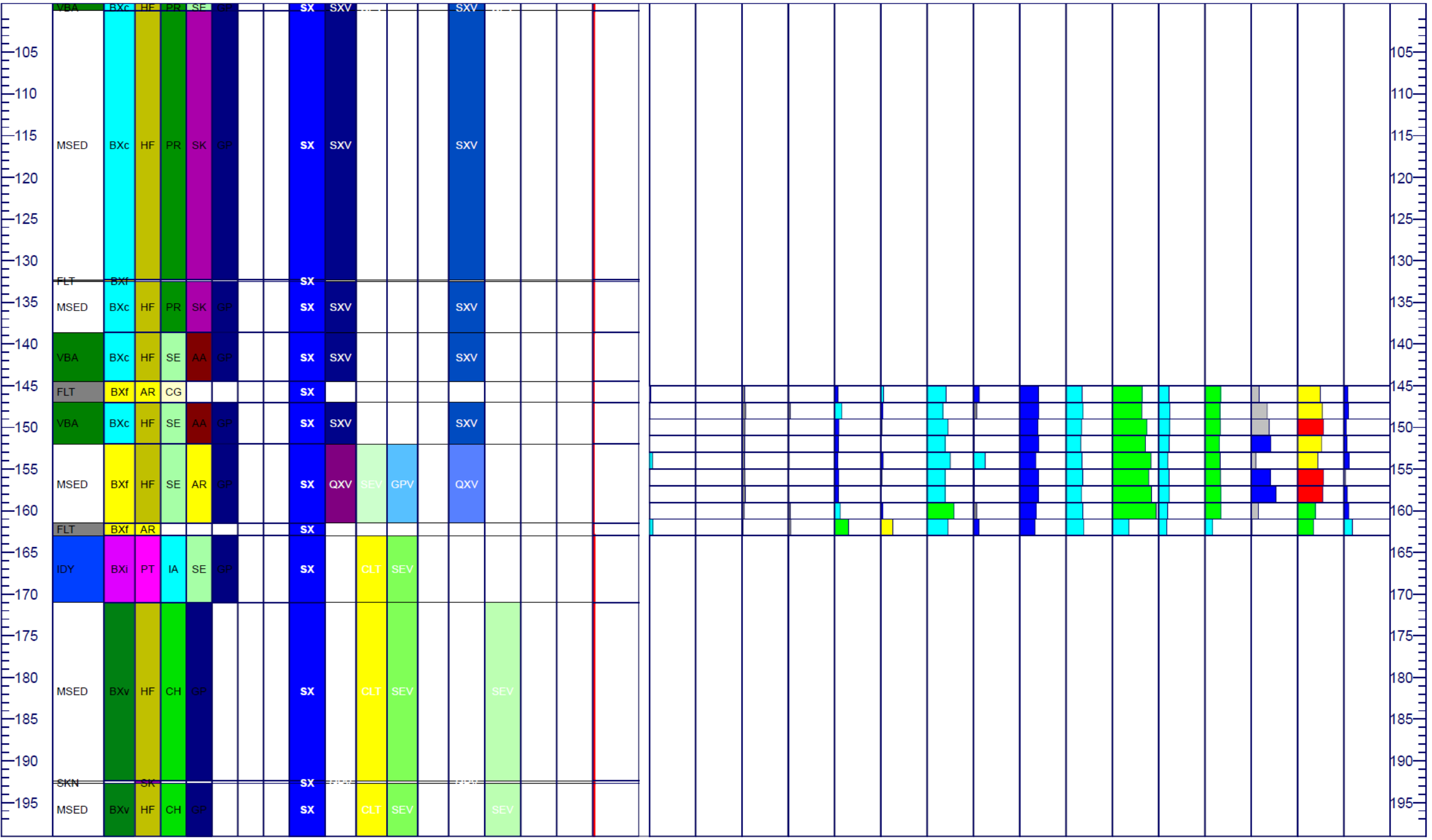
VARDENIS PROJECT N34_DGEOL_QL	HOLE_NO : VARD-01	EAST 84 : 543625.70 NORTH 84 : 4424595.00 Z : 2713.00	EOH = 391.50 m	SUMMARY DATA	Page 4 of 4



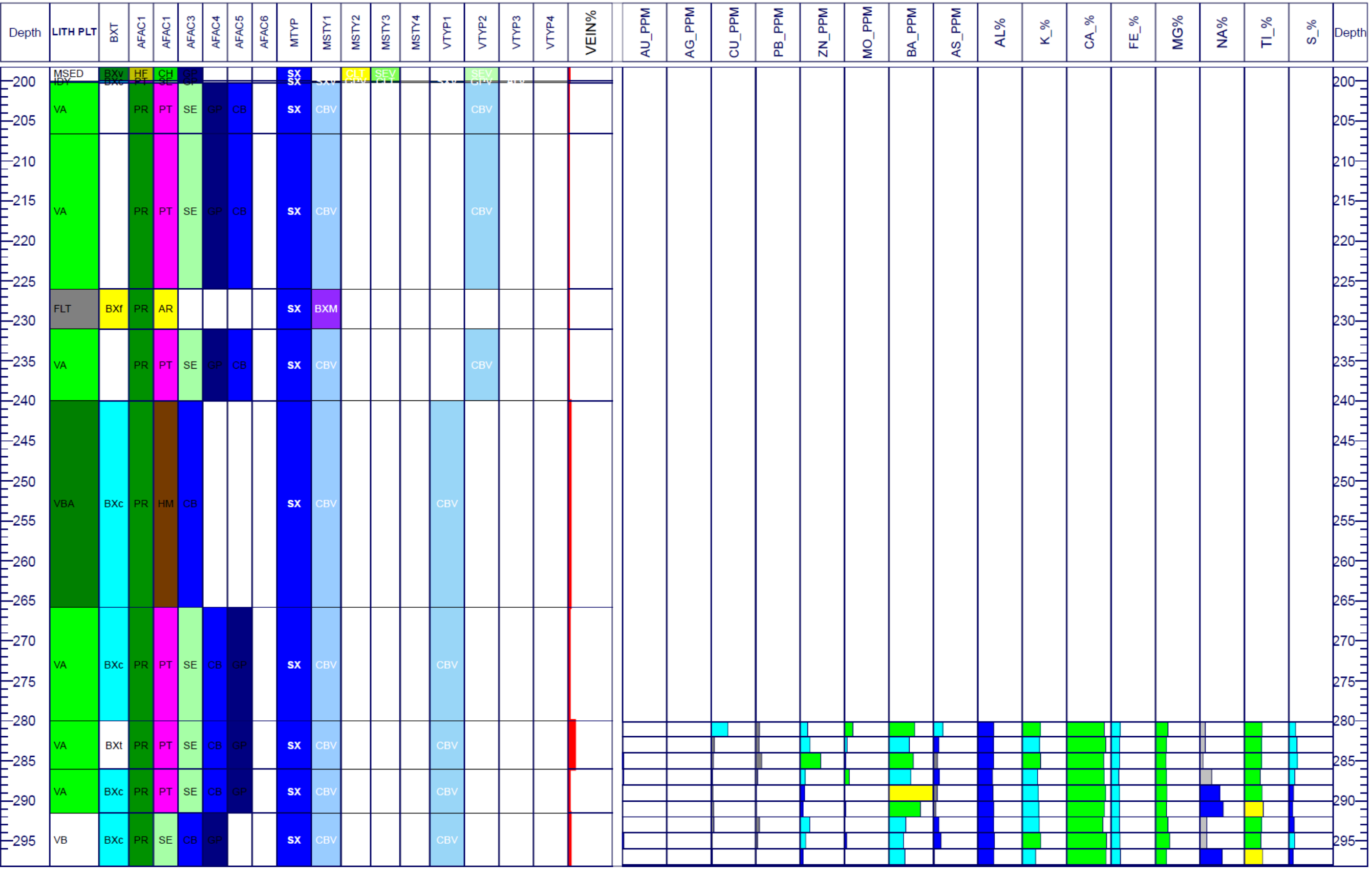
VARDENIS PROJECT N34_DGEOL_QL	HOLE_NO : VARD-02	EAST 84 : 544894.30 NORTH 84 : 4423522.00 Z : 2687.00	EOH = 376.10 m	SUMMARY DATA	Page 1 of 4



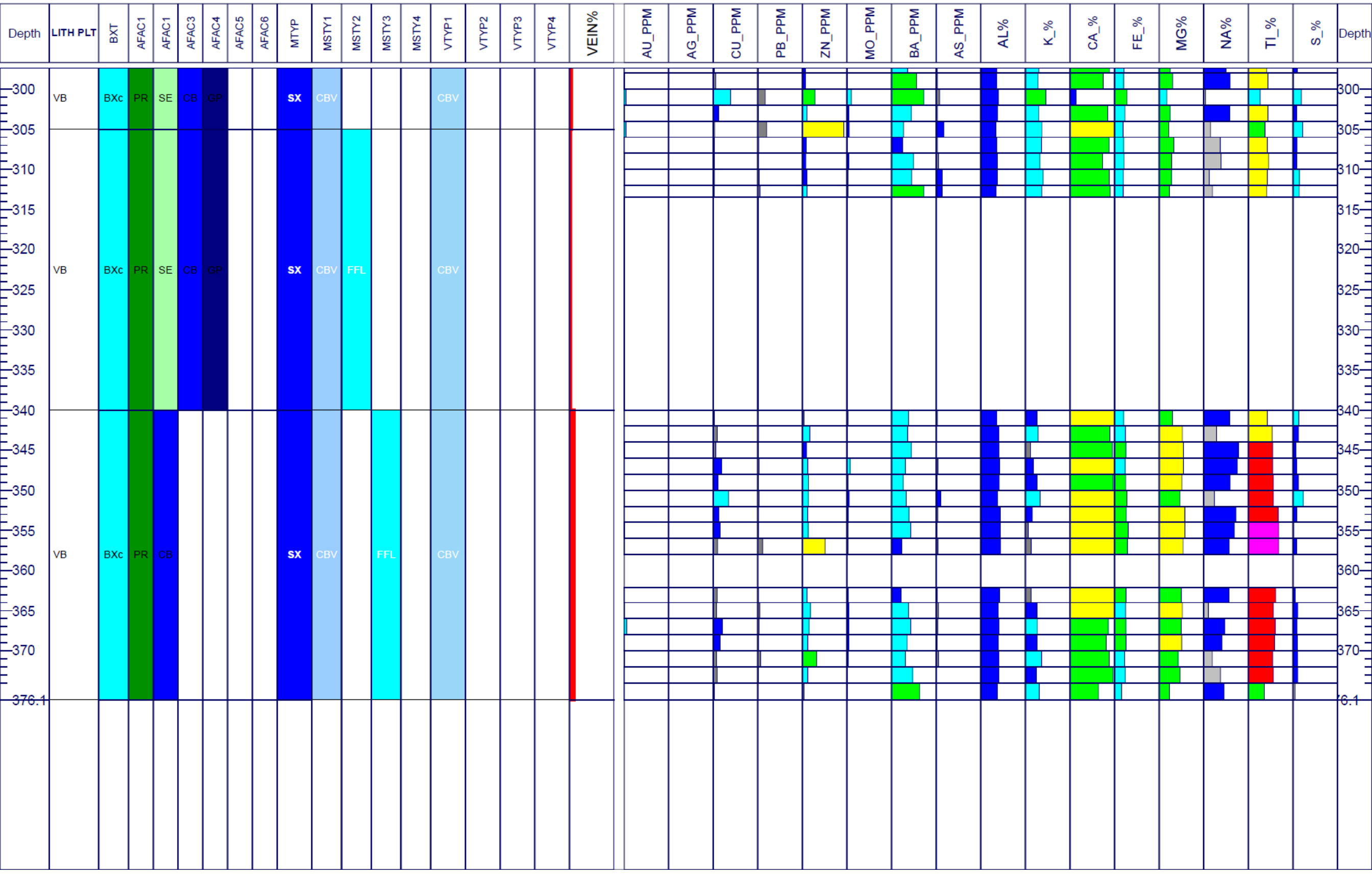
VARDENIS PROJECT N34_DGEOL_QL	HOLE_NO : VARD-02	EAST 84 : 544894.30 NORTH 84 : 4423522.00 Z : 2687.00	EOH = 376.10 m	SUMMARY DATA	Page 2 of 4



VARDENIS PROJECT N34_DGEOL_QL	HOLE_NO : VARD-02	EAST 84 : 544894.30 NORTH 84 : 4423522.00 Z : 2687.00	EOH = 376.10 m	SUMMARY DATA	Page 3 of 4



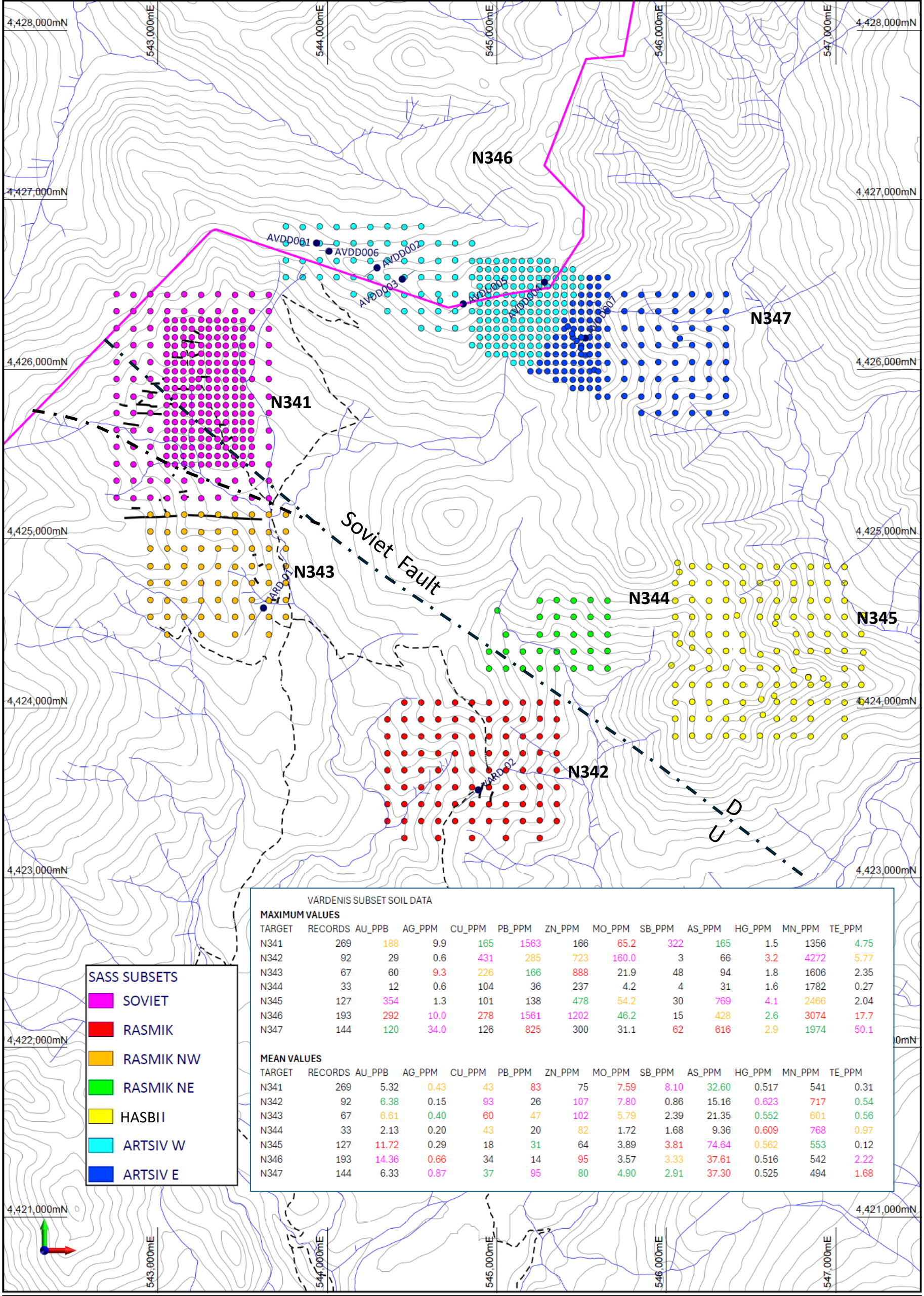
VARDENIS PROJECT N34_DGEOL_QL	HOLE_NO : VARD-02	EAST 84 : 544894.30 NORTH 84 : 4423522.00 Z : 2687.00	EOH = 376.10 m	SUMMARY DATA	Page 4 of 4



N34_VARDENIS PROJECT

APPENDIX II

SOIL DATA PLOTS



VARDENIS SUBSET SOIL DATA

MAXIMUM VALUES

TARGET	RECORDS	AU_PPB	AG_PPM	CU_PPM	PB_PPM	ZN_PPM	MO_PPM	SB_PPM	AS_PPM	HG_PPM	MN_PPM	TE_PPM
N341	269	188	9.9	165	1563	166	65.2	322	165	1.5	1356	4.75
N342	92	29	0.6	431	285	723	160.0	3	66	3.2	4272	5.77
N343	67	60	9.3	226	166	888	21.9	48	94	1.8	1606	2.35
N344	33	12	0.6	104	36	237	4.2	4	31	1.6	1782	0.27
N345	127	354	1.3	101	138	478	54.2	30	769	4.1	2466	2.04
N346	193	292	10.0	278	1561	1202	46.2	15	428	2.6	3074	17.7
N347	144	120	34.0	126	825	300	31.1	62	616	2.9	1974	50.1

MEAN VALUES

TARGET	RECORDS	AU_PPB	AG_PPM	CU_PPM	PB_PPM	ZN_PPM	MO_PPM	SB_PPM	AS_PPM	HG_PPM	MN_PPM	TE_PPM
N341	269	5.32	0.43	43	83	75	7.59	8.10	32.60	0.517	541	0.31
N342	92	6.38	0.15	93	26	107	7.80	0.86	15.16	0.623	717	0.54
N343	67	6.61	0.40	60	47	102	5.79	2.39	21.35	0.552	601	0.56
N344	33	2.13	0.20	43	20	82	1.72	1.68	9.36	0.609	768	0.97
N345	127	11.72	0.29	18	31	64	3.89	3.81	74.64	0.562	553	0.12
N346	193	14.36	0.66	34	14	95	3.57	3.33	37.61	0.516	542	2.22
N347	144	6.33	0.87	37	95	80	4.90	2.91	37.30	0.525	494	1.68

Simon J Meldrum

Notes:
WGS84 Datum
25m contours

Note:

Scale 1 : 21112.33 | Plot Date 09-Jun-2025 | Sheet 1 of 1 | Plot File: Vizex

200 0 200 400m

VARDENIS PROJECT
SUBSET AREAS

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
N344
RASMIK NE
N345
N342
GETIKVAHAQ
RASMIK
SOIL Au ppb
> 500
500 to 250
250 to 100
100 to 75
75 to 50
50 to 25
<= 25
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Au IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD004
AVDD003
AVDD005
AVDD002
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
ARD-01
N344
RASMIK NE
N345
N342
ARD-02
RASMIK
GETIKVAHAQ
C
D
SOIL Ag ppm
> 4.0
4.0 to 3.0
3.0 to 2.0
2.0 to 1.0
1.0 to 0.5
0.5 to 0.2
<= 0.2

Simon J Meldrum

Notes:
WGS84 Datum

Note:

Scale
1 : 16889.87

Plot Date
08-Jun-2025

Sheet
1 of 1

Plot File: Vizex

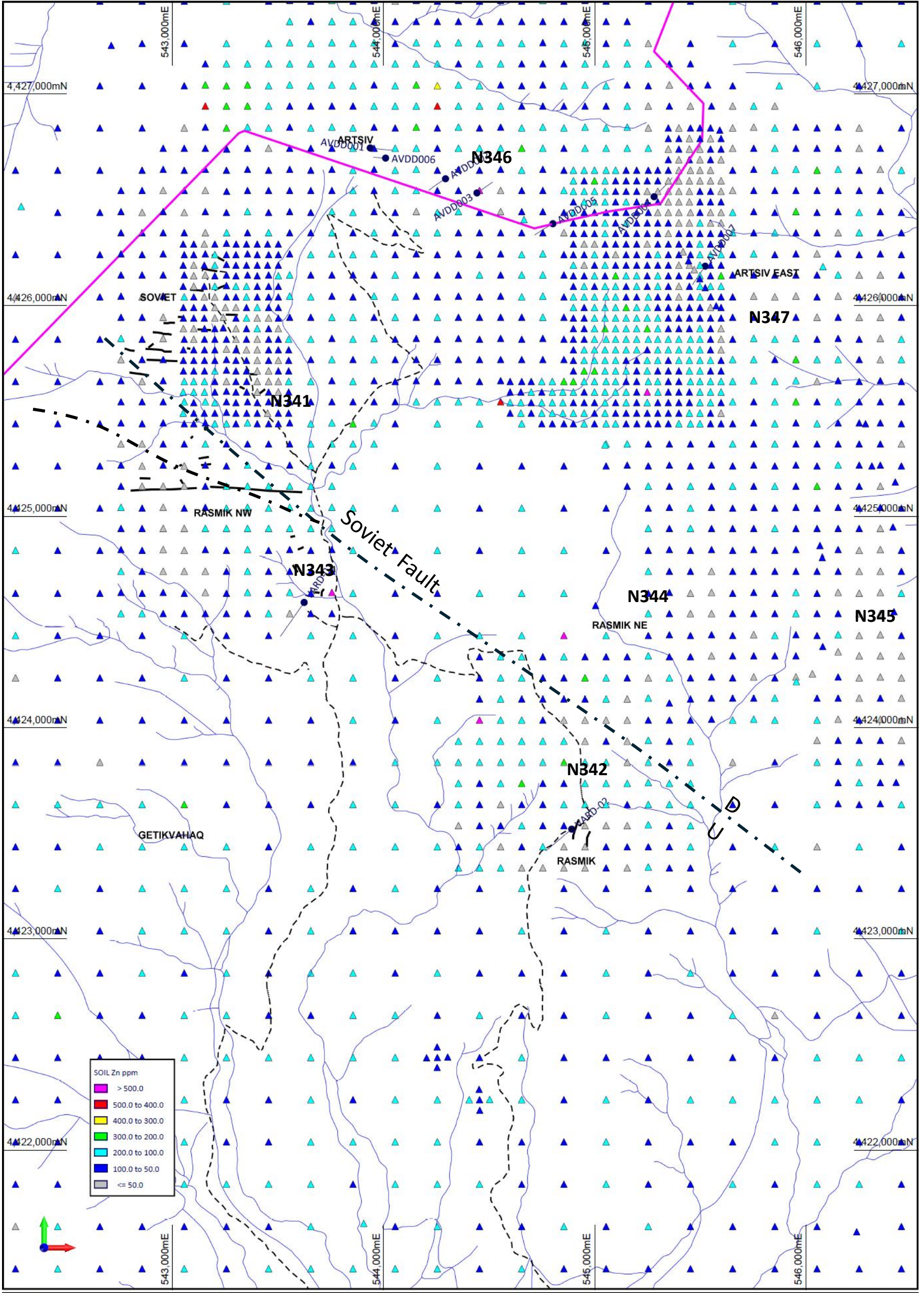
100 0 100 200m

VARDENIS PROJECT
CORE AREA
Ag IN SOIL

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
SOVIET
N346
N347
N341
RASMIK NW
Soviet Fault
N343
N344
N345
RASMIK NE
N342
GETIKVAHAQ
RABD-02
RASMIK
SOIL Cu ppm
> 350.0
350.0 to 250.0
250.0 to 150.0
150.0 to 100.0
100.0 to 50.0
50.0 to 25.0
<= 25.0
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Cu IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD004
AVDD005
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
N344
RASMIK NE
N345
N342
RARD-02
RASMIK
GETIKVAHAQ
SOIL Pb ppm
>= 500
500 to 250
250 to 100
100 to 75
75 to 50
50 to 25
< 25
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Pb IN SOIL
HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum	Note:	Scale 1 : 16889.87	Plot Date 08-Jun-2025 / Sheet 1 of 1 / Plot File: Vizex	VARDENIS PROJECT Zn IN SOIL / HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
SOVIET
N347
N341
RASMIK NW
Soviet Fault
N343
ARD-01
N344
N345
RASMIK NE
N342
ARD-02
GETIKVAHAQ
RASMIK
SOIL Mo ppm
> 10.0
10.0 to 8.0
8.0 to 6.0
6.0 to 4.0
4.0 to 2.0
2.0 to 1.0
<= 1.0
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Mo IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD004
AVDD003
AVDD005
AVDD002
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
ARD
N344
RASMIK NE
N345
N342
ARD-02
RASMIK
GETIKVAHAQ
SOIL Ba ppm
> 2000
2000 to 1000
1000 to 750
750 to 500
500 to 250
250 to 100
<= 100

Simon J Meldrum

Notes:
WGS84 Datum

Note:

Scale
1 : 16889.87

Plot Date
08-Jun-2025

Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT

Ba IN SOIL

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD004
AVDD005
AVDD007
N346
N347
ARTSIV EAST
SOVIET
N341
RASMIK NW
Soviet Fault
N343
ARD-01
N344
RASMIK NE
N345
N342
ARD-02
GETIKVAHAQ
RASMIK
SOIL Bi ppm
> 50.0
50.0 to 25.0
25.0 to 10.0
10.0 to 5.0
5.0 to 2.5
<= 2.5
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Bi IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
ARD-01
N344
RASMIK NE
N345
N342
ARD-02
RASMIK
GETIKVAHAQ
SOIL Sb ppm
> 25.0
25.0 to 20.0
20.0 to 15.0
15.0 to 10.0
10.0 to 5.0
5.0 to 2.5
<= 2.5
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Sb IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
SOVIET
N347
N341
RASMIK NW
Soviet Fault
N343
N344
N345
RASMIK NE
N342
GETIKVAHAQ
RASMIK
SOIL As ppb
> 500.0
500.0 to 250.0
250.0 to 100.0
100.0 to 50.0
50.0 to 25.0
25.0 to 10.0
<= 10.0
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
As IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
AVRD-01
N344
RASMIK NE
N345
N342
AVRD-02
GETIKVAHAQ
RASMIK
SOIL Hg ppb
> 100.0
100.0 to 50.0
50.0 to 25.0
25.0 to 10.0
10.0 to 5.0
5.0 to 2.0
<= 2.0
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Hg IN SOIL
HAYASA METALS

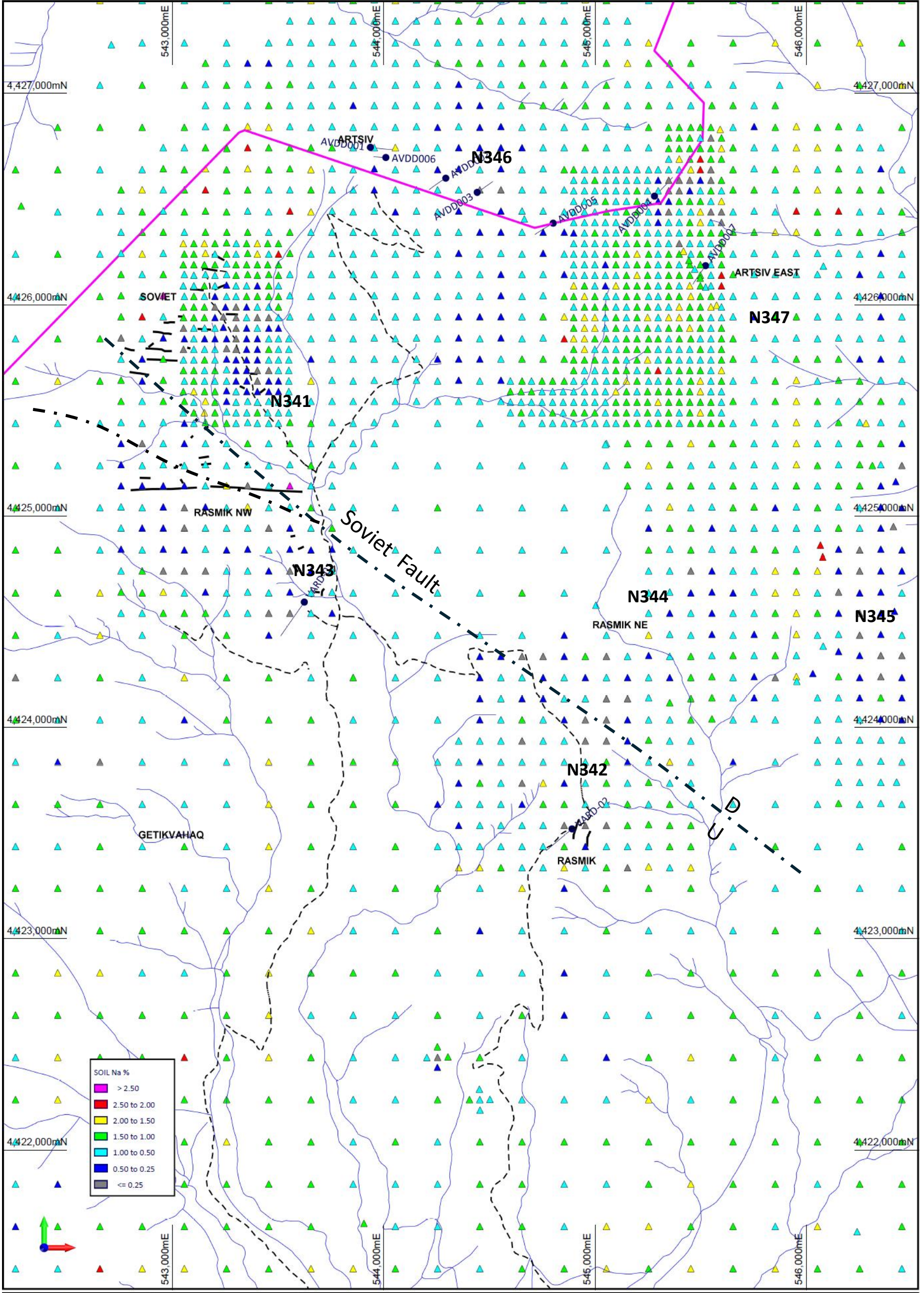
543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
SOVIET
N346
N347
N341
N343
N344
N345
N342
RASMIK NW
RASMIK NE
RASMIK
GETIKVAHAQ
RABD-02
Soviet Fault
SOIL Al %
> 5.0
5.0 to 4.0
4.0 to 3.0
3.0 to 2.0
2.0 to 1.0
1.0 to 0.5
<= 0.5
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Al IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
N344
RASMIK NE
N345
N342
VARD-02
RASMIK
GETIKVAHAQ
SOIL Ca %
> 5.0
5.0 to 4.0
4.0 to 3.0
3.0 to 2.0
2.0 to 1.0
1.0 to 0.5
<= 0.5
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Cal IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD004
AVDD005
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
ARD
N344
RASMIK NE
N345
N342
ARD-02
RASMIK
GETIKVAHAQ
C
D
SOIL Fe %
> 10.0
10.0 to 8.0
8.0 to 6.0
6.0 to 4.0
4.0 to 2.0
2.0 to 1.0
<= 1.0
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Fe IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD004
AVDD005
AVDD007
ARTSIV EAST
SOVIET
RASMIK NW
GETIKVAHAQ
RASMIK
ARD-02
N341
N342
N343
N344
N345
N346
N347
Soviet Fault
SOIL K %
> 5.0
5.0 to 4.0
4.0 to 3.0
3.0 to 2.0
2.0 to 1.0
1.0 to 0.5
<= 0.5
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
K IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
N346
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
ARD-01
N344
RASMIK NE
N345
N342
ARD-02
RASMIK
GETIKVAHAQ
C
D
SOIL Mg %
> 2.5
2.5 to 2.0
2.0 to 1.5
1.5 to 1.0
1.0 to 0.5
0.5 to 0.2
<= 0.2
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Mg IN SOIL
HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum	Note:	Scale 1 : 16889.87	Plot Date 08-Jun-2025 / Sheet 1 of 1 / Plot File: Vizex	VARDENIS PROJECT Na IN SOIL
			100 0 100 200m		HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
SOVIET
N347
N341
RASMIK NW
Soviet Fault
N343
N344
N345
RASMIK NE
N342
ARD-02
RASMIK
GETIKVAHAQ
C
D
SOIL P ppm
> 4000.0
4000.0 to 3000.0
3000.0 to 2000.0
2000.0 to 1000.0
1000.0 to 500.0
500.0 to 250.0
<= 250.0
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
P IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD004
AVDD005
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
ARD-01
N344
RASMIK NE
N345
N342
ARD-02
RASMIK
GETIKVAHAQ
C
D
SOIL Ti %
> 0.5
0.5 to 0.4
0.4 to 0.3
0.3 to 0.3
0.3 to 0.2
0.2 to 0.2
<= 0.2
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Ti IN SOIL
HAYASA METALS

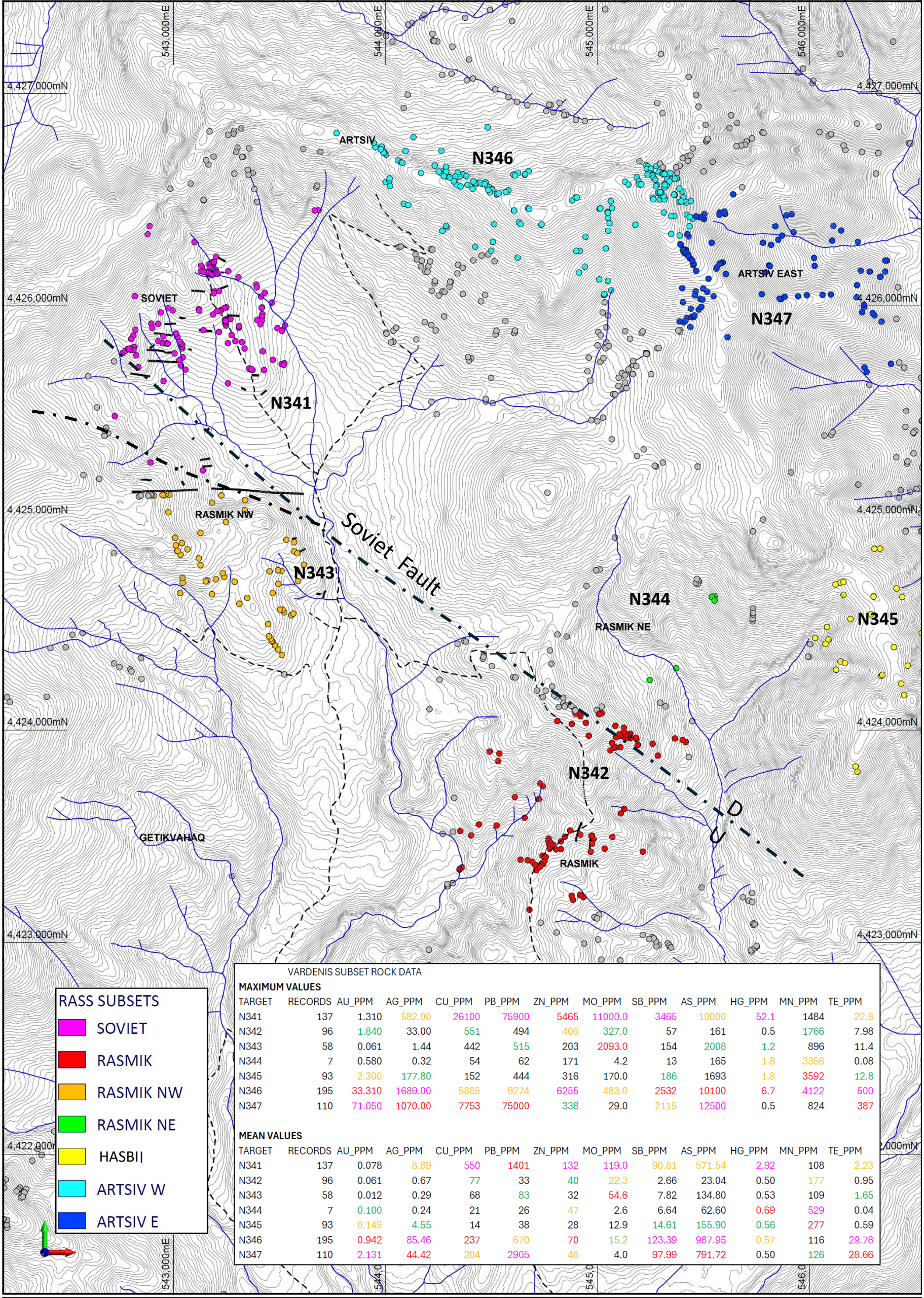
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544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
N346
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
N344
RASMIK NE
N345
N342
ARD-02
RASMIK
GETIKVAHAQ
SOIL Te ppm
> 25.0
25.0 to 10.0
10.0 to 5.0
5.0 to 2.5
2.5 to 1.0
1.0 to 0.5
<= 0.5
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Te IN SOIL
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD004
AVDD005
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
ARD-01
N344
RASMIK NE
N345
N342
ARD-02
RASMIK
GETIKVAHAQ
U.D.
SOIL Mn ppm
> 5000
5000 to 2500
2500 to 1000
1000 to 500
500 to 250
250 to 100
<= 100
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Mn IN SOIL
HAYASA METALS

N34_VARDENIS PROJECT

APPENDIX III

ROCK DATA PLOTS



VARDENIS SUBSET ROCK DATA

MAXIMUM VALUES

TARGET	RECORDS	AU_PPM	AG_PPM	CU_PPM	PB_PPM	ZN_PPM	MO_PPM	SB_PPM	AS_PPM	HG_PPM	MN_PPM	TE_PPM
N341	137	1.310	582.00	26100	75900	5465	11000.0	3465	10000	52.1	1484	22.8
N342	96	1.840	33.00	551	494	406	327.0	57	161	0.5	1766	7.98
N343	58	0.061	1.44	442	515	203	2093.0	154	2008	1.2	896	11.4
N344	7	0.580	0.32	54	62	171	4.2	13	165	1.8	3356	0.08
N345	93	2.300	177.80	152	444	316	170.0	186	1693	1.8	3592	12.8
N346	195	33.310	1689.00	5805	9274	6255	483.0	2532	10100	6.7	4122	500
N347	110	71.050	1070.00	7753	75000	338	29.0	2115	12500	0.5	824	387

MEAN VALUES

TARGET	RECORDS	AU_PPM	AG_PPM	CU_PPM	PB_PPM	ZN_PPM	MO_PPM	SB_PPM	AS_PPM	HG_PPM	MN_PPM	TE_PPM
N341	137	0.078	8.89	550	1401	132	119.0	90.81	571.54	2.92	108	2.23
N342	96	0.061	0.67	77	33	40	22.3	2.66	23.04	0.50	177	0.95
N343	58	0.012	0.29	68	83	32	54.6	7.82	134.80	0.53	109	1.65
N344	7	0.100	0.24	21	26	47	2.6	6.64	62.60	0.69	529	0.04
N345	93	0.145	4.55	14	38	28	12.9	14.61	155.90	0.56	277	0.59
N346	195	0.942	85.46	237	670	70	15.2	123.39	987.95	0.57	116	29.78
N347	110	2.131	44.42	204	2905	46	4.0	97.99	791.72	0.50	126	28.66

Simon J Meldrum

Notes:
WGS84 Datum

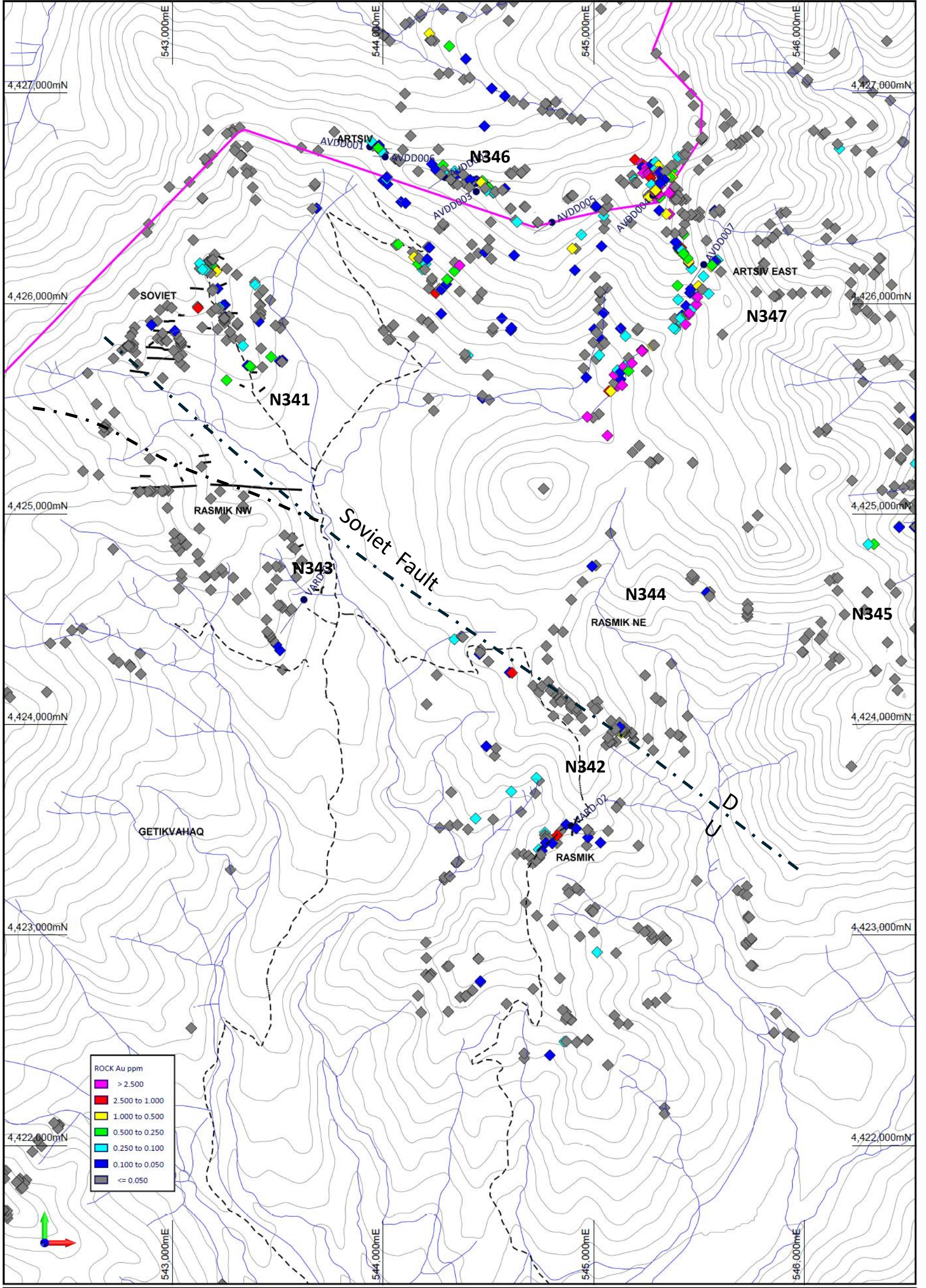
Note:

Scale 1 : 16889.87 | Plot Date 10-Jun-2025 | Sheet 1 of 1 | Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT
ROCK DATA
SUBSET AREAS

HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 | Plot Date 08-Jun-2025 | Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT Au IN ROCK	HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
VARD
N344
RASMIK NE
N345
N342
VARD-02
RASMIK
GETIKVAHAQ
C.D
ROCK Ag ppm
> 25.0
25.0 to 10.0
10.0 to 7.5
7.5 to 5.0
5.0 to 2.5
2.5 to 1.0
<= 1.0
Simon J Meldrum
Notes:
WGS84 Datum
25m contours
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Ag IN ROCK
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
SOVIET
N346
N347
N341
RASMIK NW
Soviet Fault
N343
VARD-02
N344
RASMIK NE
N345
N342
GETIKVAHAQ
RASMIK
C.D
ROCK Cu ppm
> 5000
5000 to 2500
2500 to 1000
1000 to 500
500 to 250
250 to 100
<= 100

Simon J Meldrum

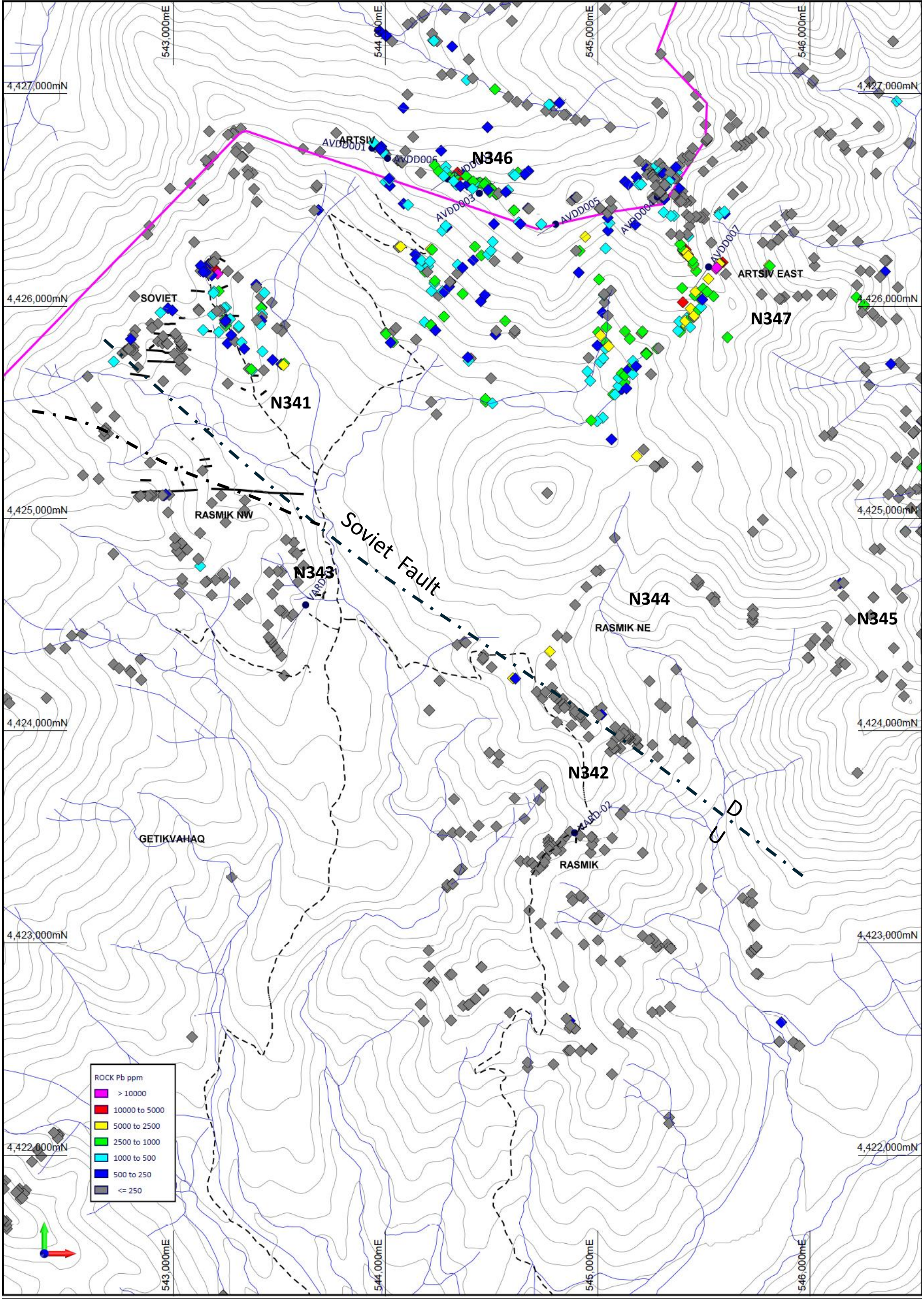
Notes:
WGS84 Datum
25m contours

Note:

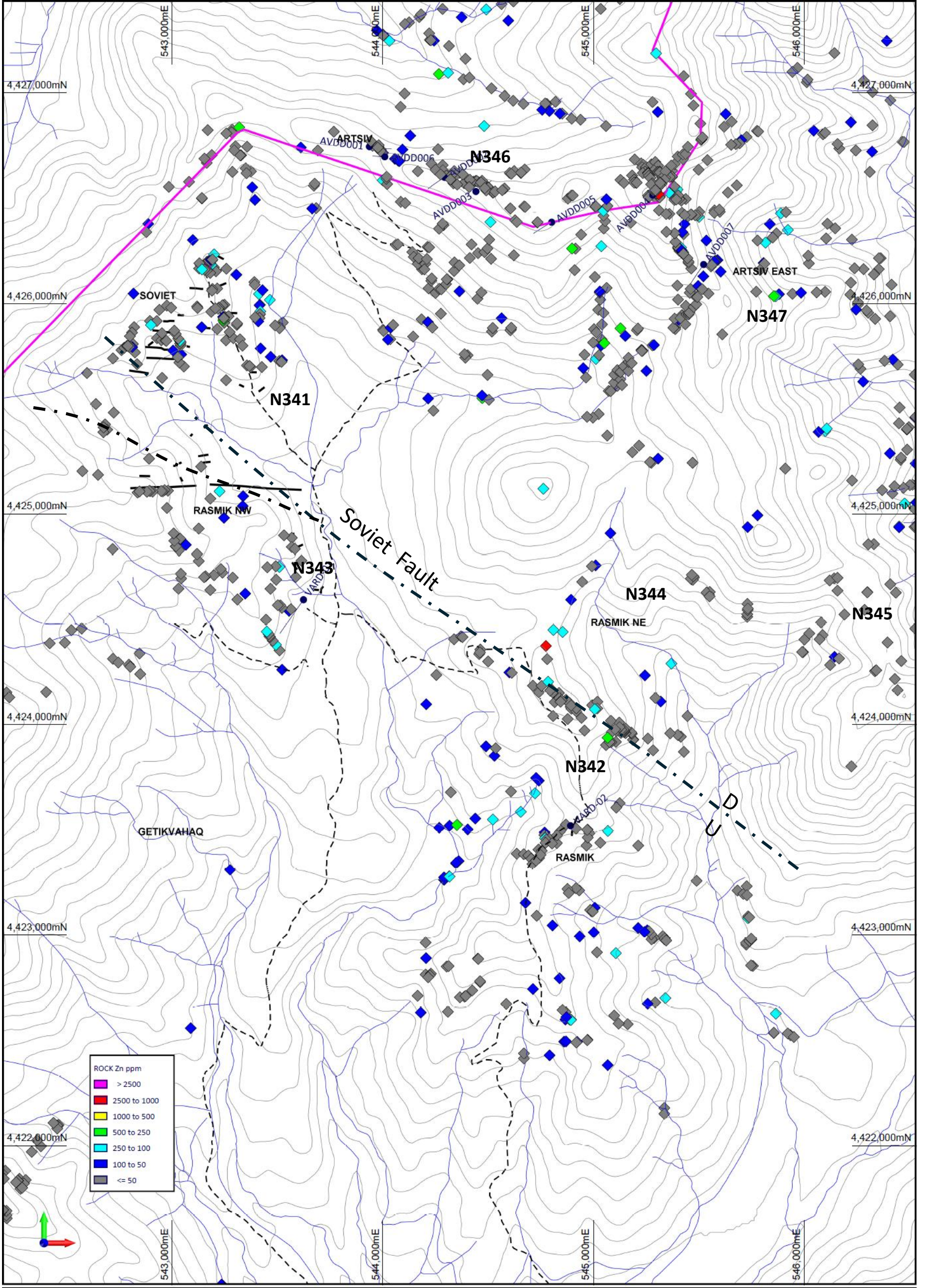
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Plot Date 08-Jun-2025
Sheet 1 of 1
Plot File: Vizex
100 0 100 200m

VARDENIS PROJECT
Cu IN ROCK

HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 08-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT Pb IN ROCK	HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 08-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT Zn IN ROCK	HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
SOVIET
N346
N347
N341
RASMIK NW
Soviet Fault
N343
VARD
N344
RASMIK NE
N345
N342
GETIKVAHAQ
VARD-02
RASMIK
C.D
ROCK Mo ppm
> 100
100 to 50
50 to 25
25 to 10
10 to 5
5 to 2
<= 2

Simon J Meldrum

Notes:
WGS84 Datum
25m contours

Note:

Scale 1 : 16889.87
Plot Date 08-Jun-2025
Sheet 1 of 1
Plot File: Vizex
100 0 100 200m

VARDENIS PROJECT
Mo IN ROCK

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD007
ARTSIV EAST
SOVIET
N346
N347
N341
RASMIK NW
Soviet Fault
N343
VARD
N344
RASMIK NE
N345
N342
VARD-02
RASMIK
GETIKVAHAQ
C.D.
ROCK Ba ppm
> 2500
2500 to 1000
1000 to 750
750 to 500
500 to 250
250 to 100
<= 100

Simon J Meldrum

Notes:
WGS84 Datum
25m contours

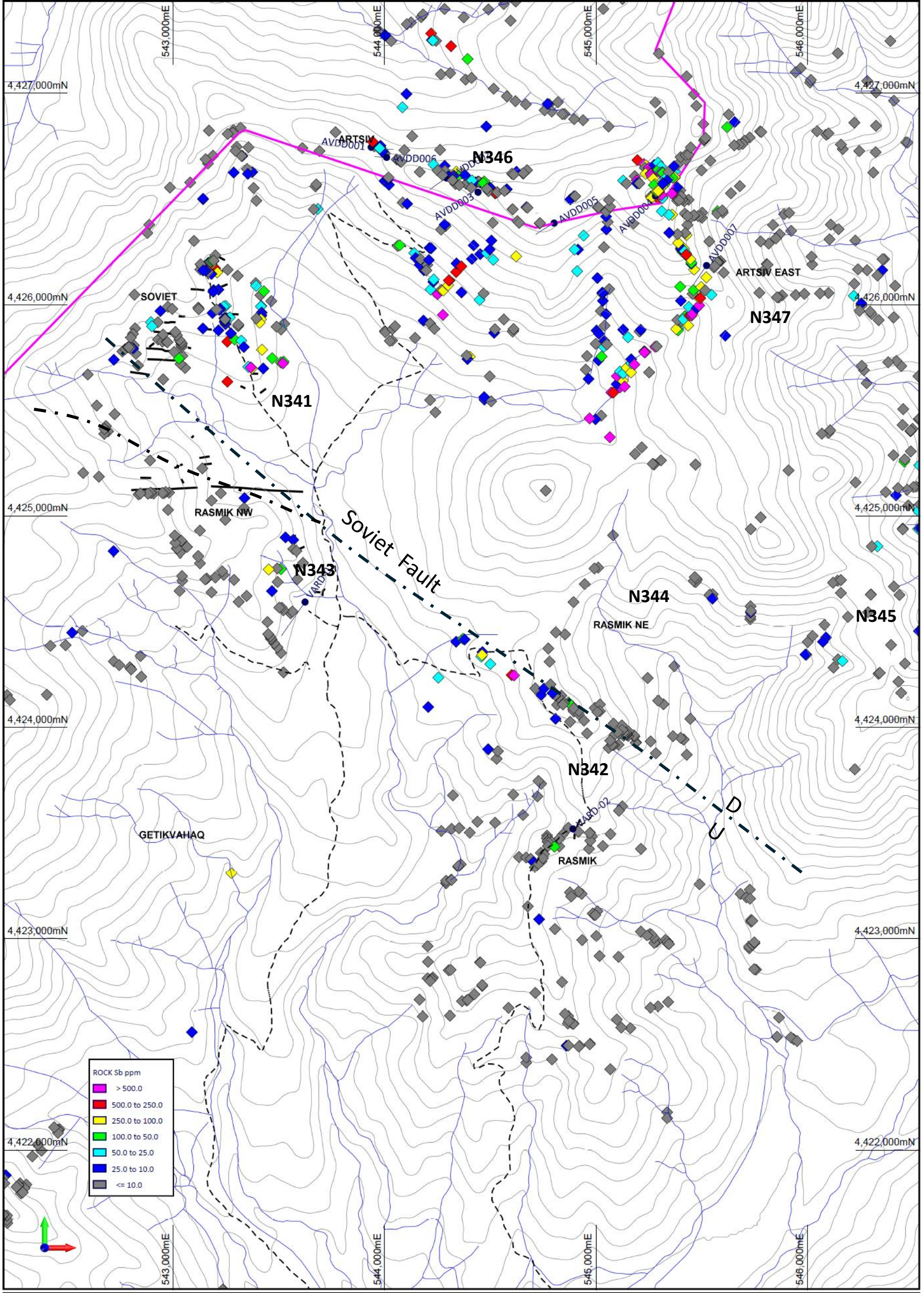
Note:

Scale 1 : 16889.87
Plot Date 08-Jun-2025
Sheet 1 of 1
Plot File: Vizex
100 0 100 200m

VARDENIS PROJECT
Ba IN ROCK

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
VARD
N344
RASMIK NE
N345
N342
VARD-02
RASMIK
GETIKVAHAQ
C.D
ROCK Bi ppm
> 200.0
200.0 to 100.0
100.0 to 50.0
50.0 to 25.0
25.0 to 10.0
10.0 to 5.0
<= 5.0
Simon J Meldrum
Notes:
WGS84 Datum
25m contours
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
Bi IN ROCK
HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 08-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT Sb IN ROCK	HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
VARD
N344
RASMIK NE
N345
N342
VARD-02
RASMIK
GETIKVAHAQ
C.D
ROCK As ppm
> 1000.0
1000.0 to 750.0
750.0 to 500.0
500.0 to 250.0
250.0 to 100.0
100.0 to 50.0
<= 50.0
Simon J Meldrum
Notes:
WGS84 Datum
25m contours
Note:
Scale
1 : 16889.87
Plot Date
08-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
As IN ROCK
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
N346
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
VARD
N344
RASMIK NE
N345
N342
VARD-02
RASMIK
GETIKVAHAQ
C
D
ROCK Te ppm
> 250
250 to 100
100 to 50
50 to 25
25 to 10
10 to 5
<= 5

Simon J Meldrum

Notes:
WGS84 Datum
25m contours

Note:

Scale
1 : 16889.87

Plot Date
09-Jun-2025

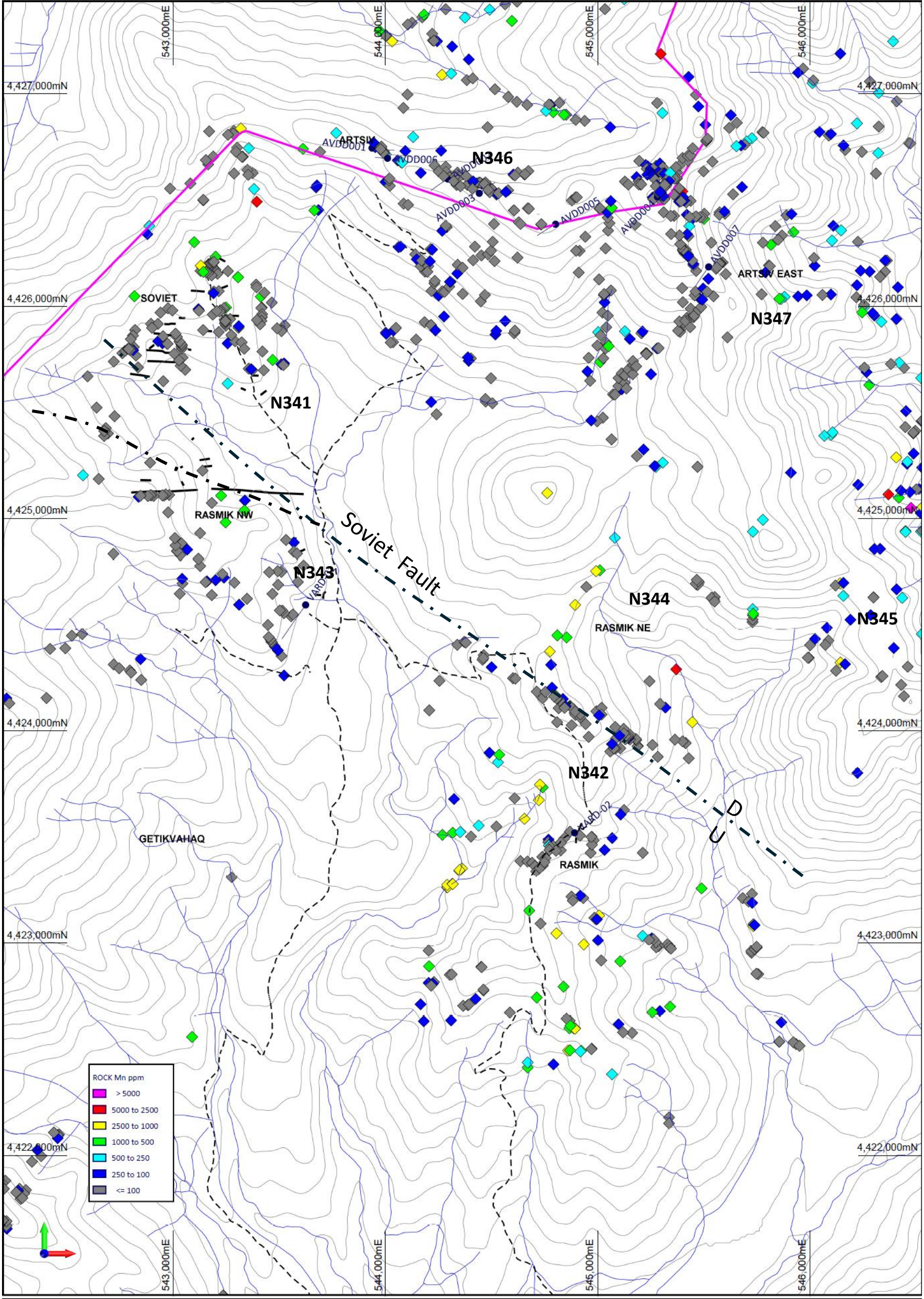
Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

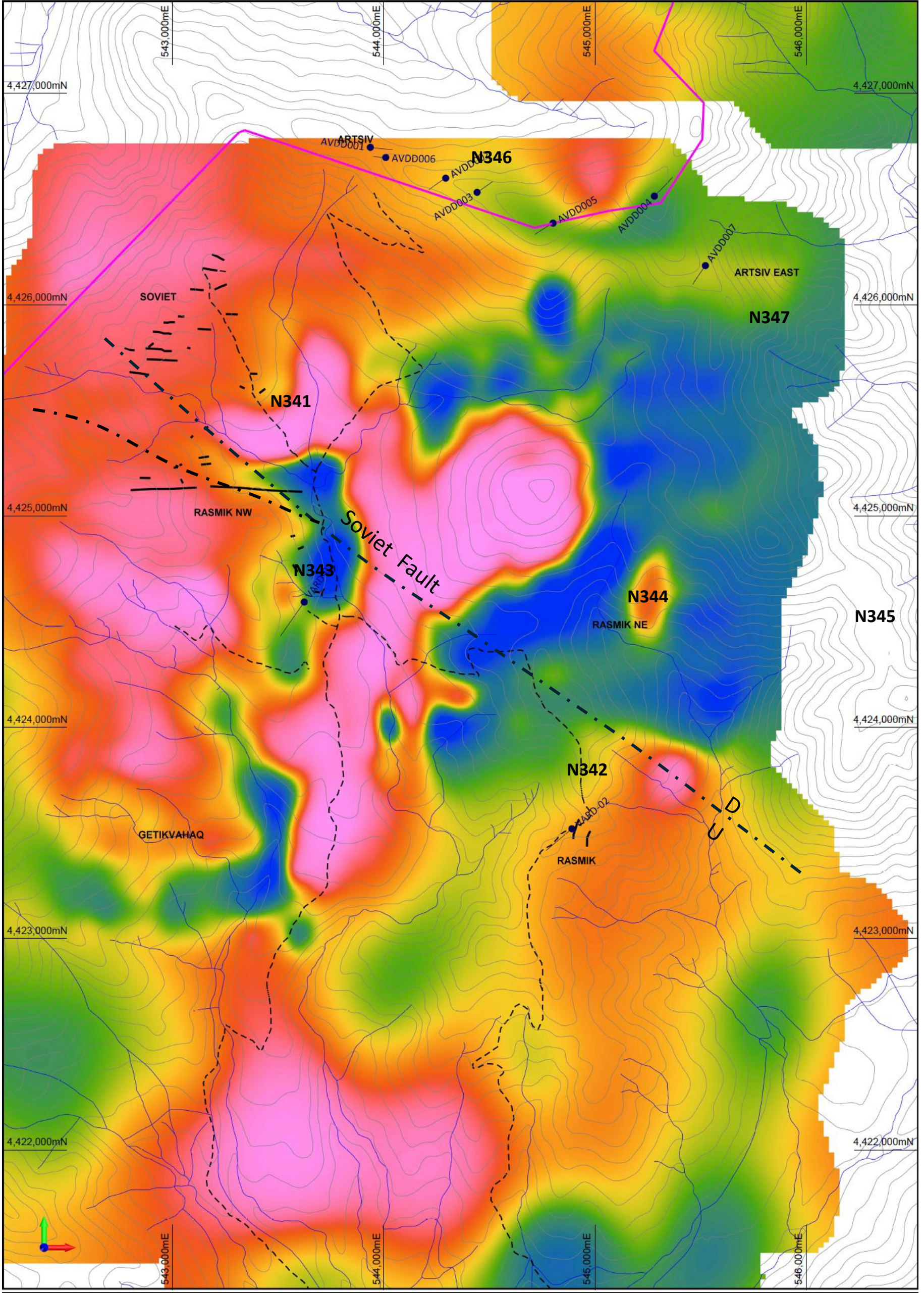
VARDENIS PROJECT
Te IN ROCK

HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT Mn IN ROCK	HAYASA METALS

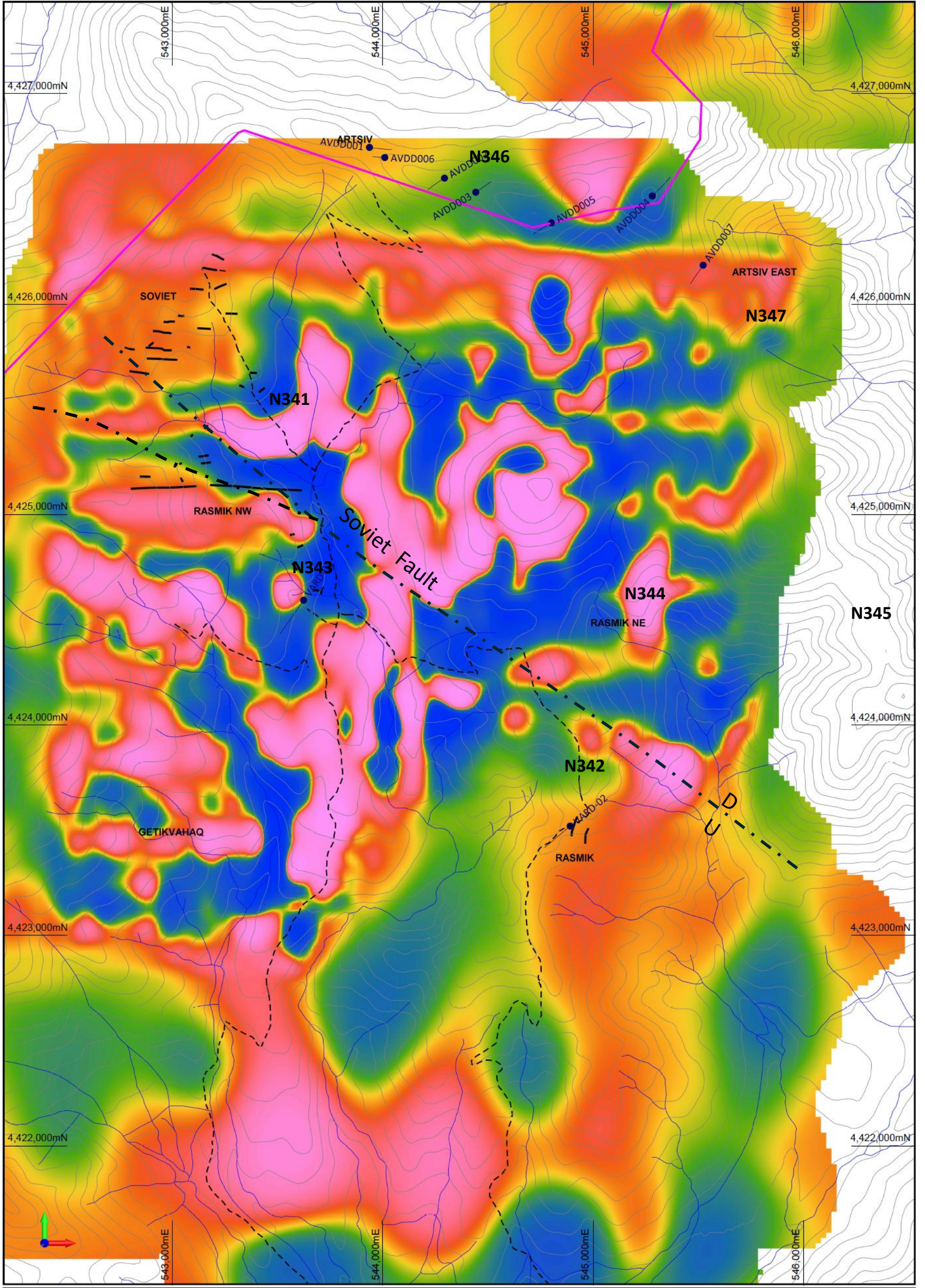
N34_VARDENIS PROJECT
APPENDIX V
GEOPHYSICAL DATA PLOTS



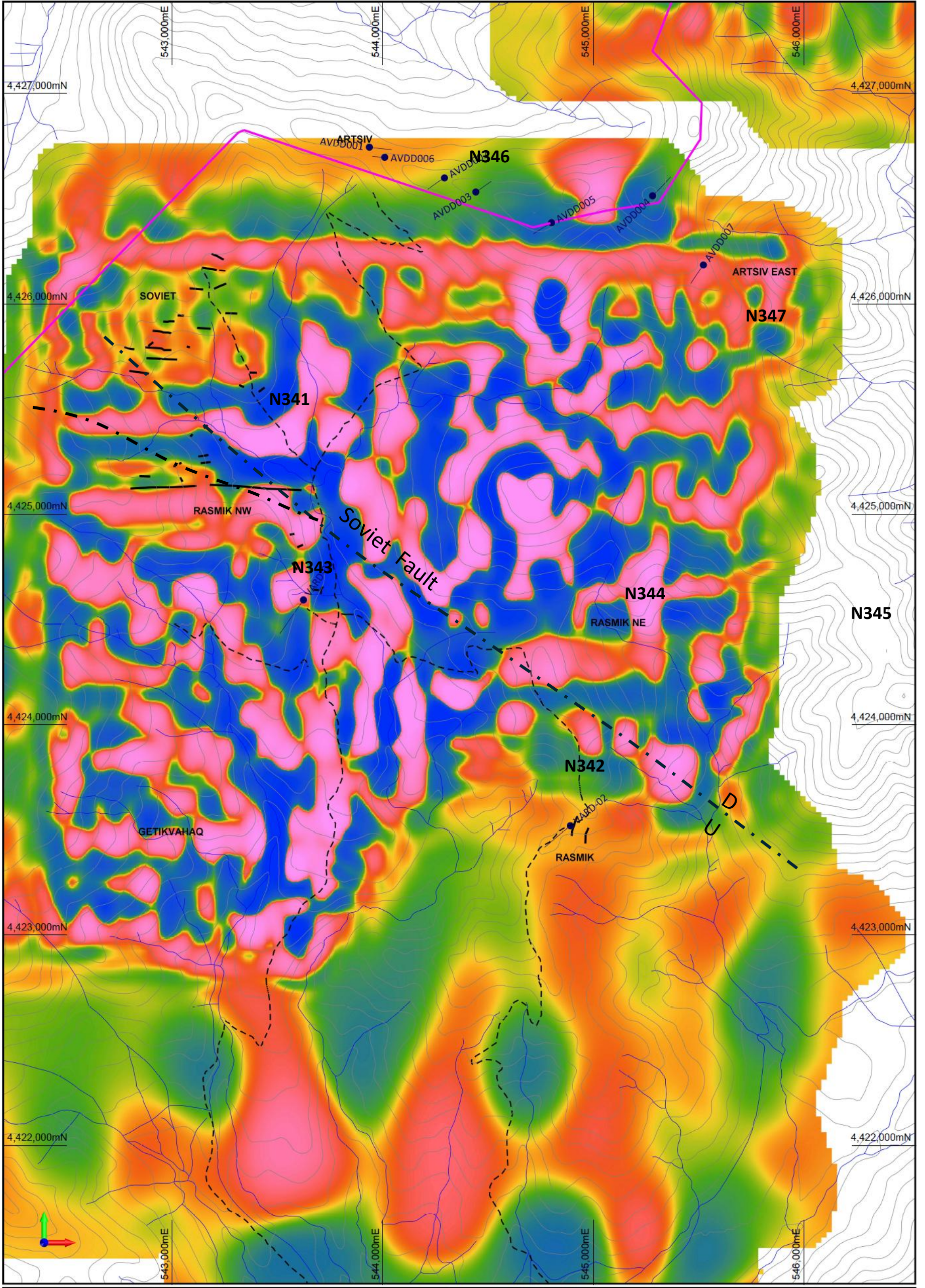
Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT GEOPHYSICS GMAG RTP	HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
N346
ARTSIV EAST
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
VARD
N344
RASMIK NE
N345
N342
VARD-02
RASMIK
C
D
GETIKVAHAQ

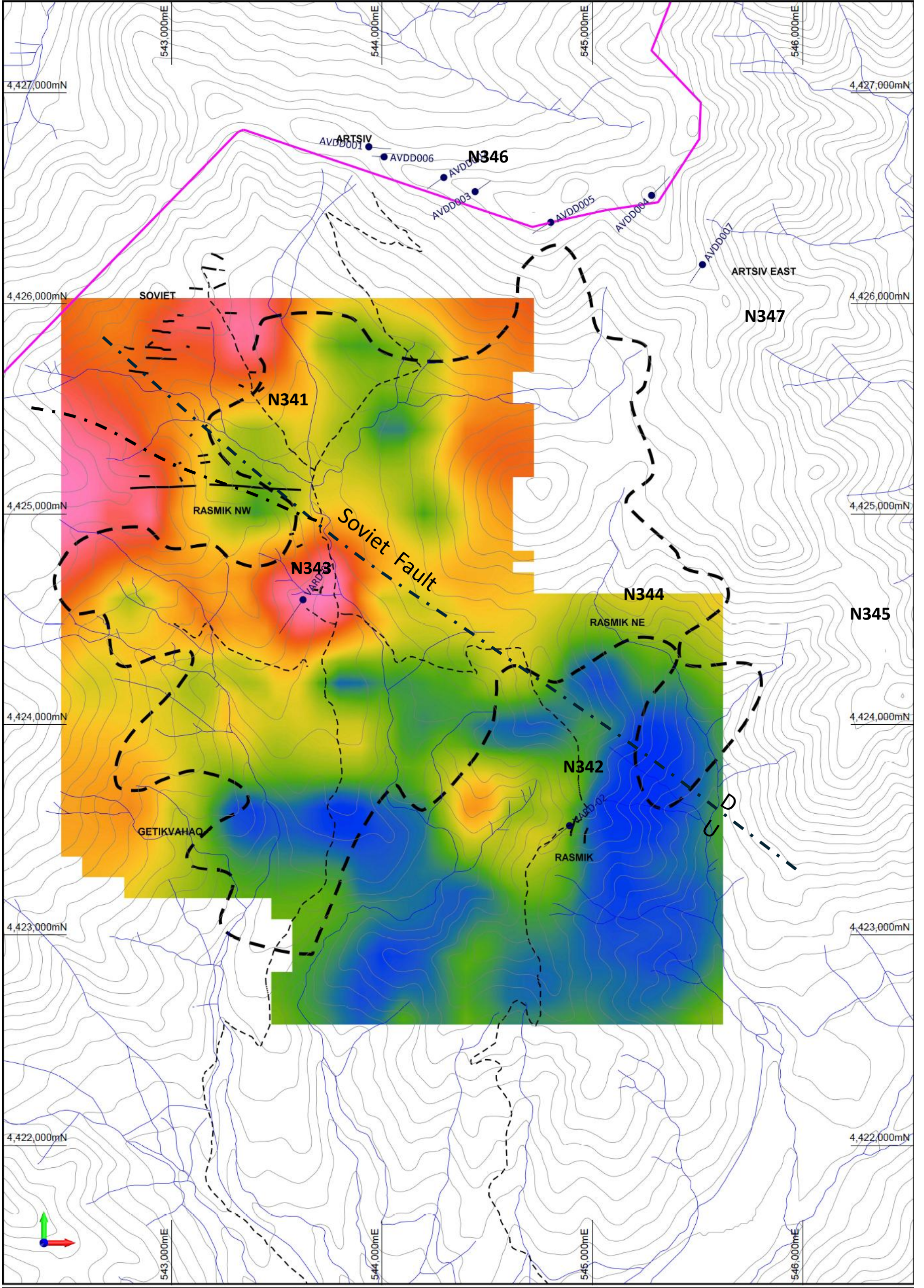
Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT GEOPHYSICS GMAG AS	HAYASA METALS



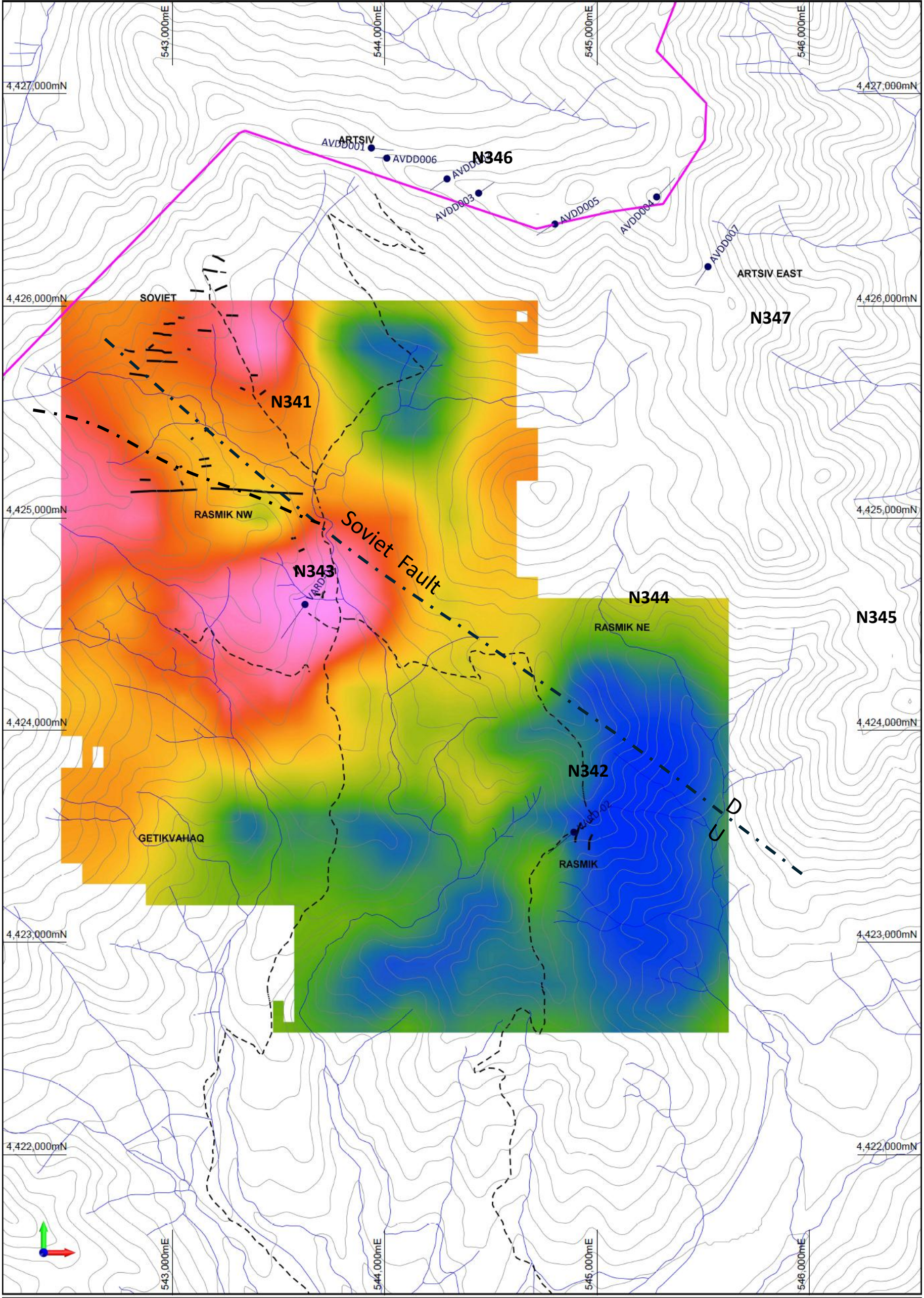
Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT GEOPHYSICS GMAG 1VD	HAYASA METALS



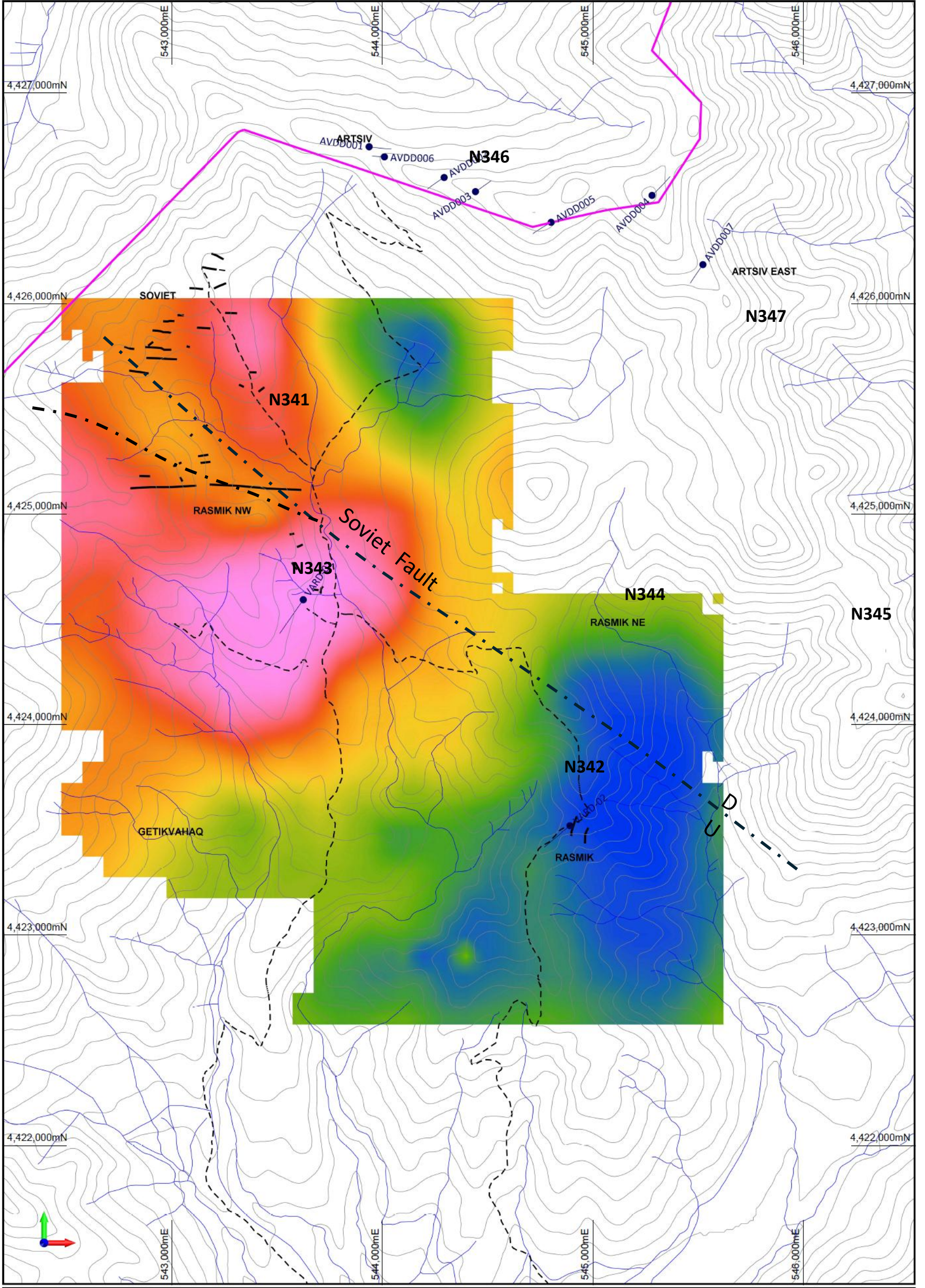
Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT GEOPHYSICS GMAG 2VD	HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note: Dashed black line - AS M	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT GEOPHYSICS IP CHG -100m	HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 · Plot Date 09-Jun-2025 · Sheet 1 of 1 · Plot File: Vizex · 100 0 100 200m	**VARDENIS PROJECT** **GEOPHYSICS** **IP CHG -200m**	**HAYASA METALS**



Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT GEOPHYSICS IP CHG -300m	HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
N346
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
VARD
N344
RASMIK NE
N345
N342
GETIKVAHAQ
VARD-02
RASMIK
U
D

Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note: Dashed black line - AS M	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT GEOPHYSICS IP RES -100m	HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
N346
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
VARD
N344
RASMIK NE
N345
N342
RALD-02
RASMIK
GETIKVAHAQ
C
D

Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87	Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT GEOPHYSICS IP RES -200m	HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
ARTSIV
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
ARTSIV EAST
N346
N347
SOVIET
N341
RASMIK NW
Soviet Fault
N343
N344
RASMIK NE
N345
N342
VARD-02
RASMIK
GETIKVAHAQ
C
D

Simon J Meldrum	Notes: WGS84 Datum 25m contours	Note:	Scale 1 : 16889.87 Plot Date 09-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT GEOPHYSICS IP RES -300m	HAYASA METALS

N34_VARDENIS PROJECT

APPENDIX VI

RGEOL_ASD DATA PLOTS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN

N346
N347
N341
N343
N344
N345
N342

AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
VARD-01
VARD-03

Soviet Fault

INTENSITIES
SOVIET
RASMIK
RASMIK NW
RASMIK NE
HASIBI
ARTSIV W
ARTSIV E

Simon J Meldrum

Notes:
WGS84 Datum

Note:
Black lines- Soviet trenche

Scale
1 : 16889.87

Plot Date
11-Jun-2025

Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT
RGEOL_ASD DATA
DATA SUBSETS

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN

N346
N347
N341
N343
N344
N345
N342

AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007

Soviet Fault

VARD-01
VARD-02

ALTERATION FACIES
- No data
- Unaltered
- Aplitised
- Sub propylitic
- Hornfelsed
- Propylitic
- Epidote SK PR
- Magnetite
- Potassic bi kf mt
- Kspar potassic
- Skarn
- Phylllic
- Carbonate
- Chloritic
- Intermediate argillic
- Sericitic
- Illite-smectite
- Argillic
- Silicified
- Potassium flooding
- Advanced Argillic
- Massive silica
- Massive vuggy silica
- Vuggy massive silica
- Vuggy silica
- silica alunite
- caly-alunite
- Silica-clay
- Clay-silica
- Leached
- Hematised
- Gypsum
- Anhydrite
- Devitrified

Simon J Meldrum

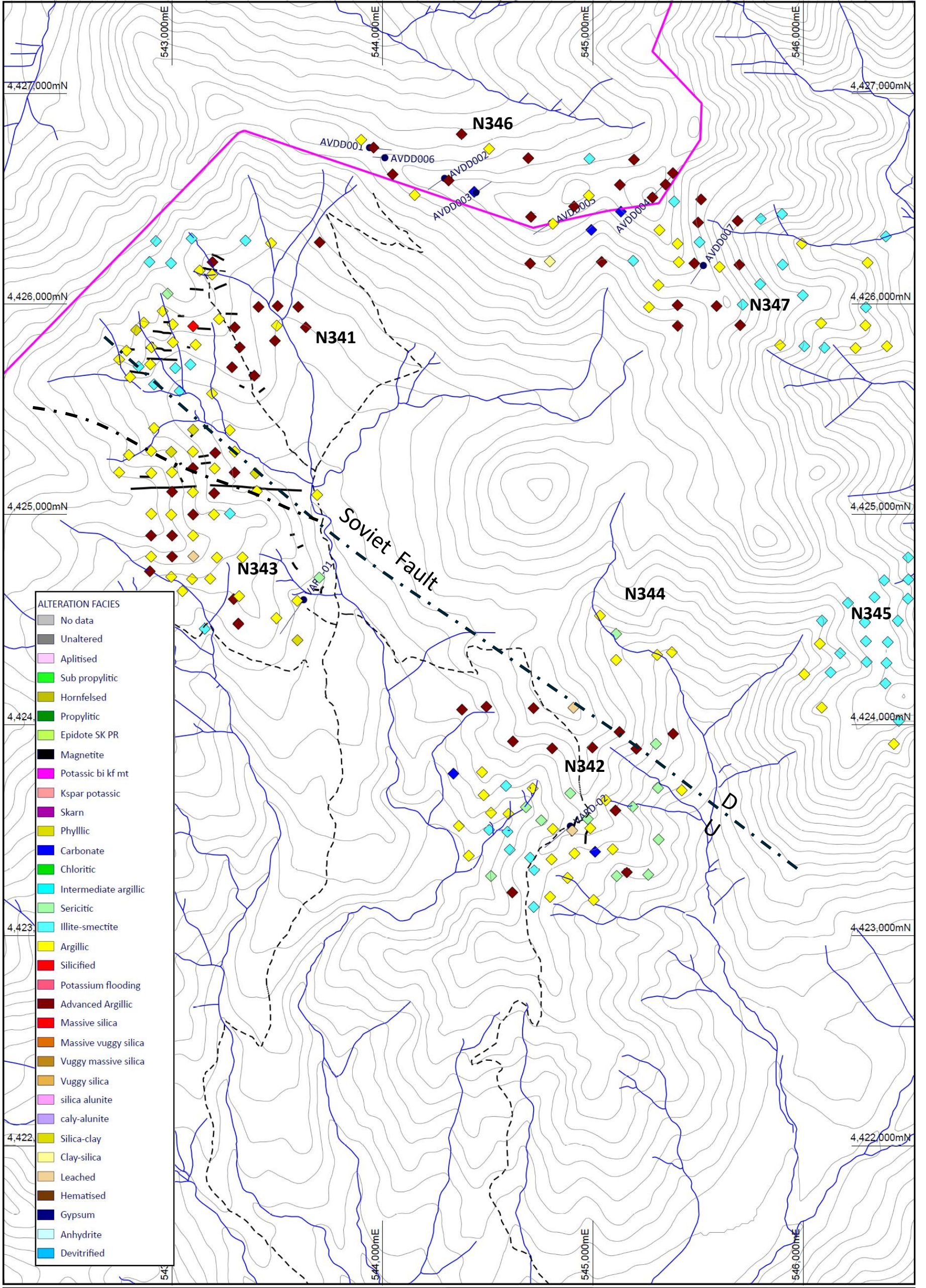
Notes:
WGS84 Datum

Note:
Black lines- Soviet trenche

Scale 1 : 16889.87
Plot Date 11-Jun-2025
Sheet 1 of 1
Plot File: Vizex
100 0 100 200m

VARDENIS PROJECT
RGEOL_ASD DATA
ALT FACIES 1 INTERP

HAYASA METALS



Simon J Meldrum

Notes:
WGS84 Datum

Note:
Black lines- Soviet trenche

Scale 1 : 16889.87 | Plot Date 11-Jun-2025 | Sheet 1 of 1 | Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT
RGEOL_ASD DATA
ALT FACIES 2 INTERP

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN

N346
N347
N341
N343
N344
N345
N342

AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
VARD-01
VARD-02

Soviet Fault
C
D

ALTERATION FACIES
- No data
- Unaltered
- Aplitised
- Sub propylitic
- Hornfelsed
- Propylitic
- Epidote SK PR
- Magnetite
- Potassic bi kf mt
- Kspar potassic
- Skarn
- Phylllic
- Carbonate
- Chloritic
- Intermediate argillic
- Sericitic
- Illite-smectite
- Argillic
- Silicified
- Potassium flooding
- Advanced Argillic
- Massive silica
- Massive vuggy silica
- Vuggy massive silica
- Vuggy silica
- silica alunite
- caly-alunite
- Silica-clay
- Clay-silica
- Leached
- Hematised
- Gypsum
- Anhydrite
- Devitrified

Simon J Meldrum

Notes:
WGS84 Datum

Note:
Black lines- Soviet trenche

Scale 1 : 16889.87
Plot Date 11-Jun-2025
Sheet 1 of 1
Plot File: Vizex
100 0 100 200m

VARDENIS PROJECT
RGEOL_ASD DATA
ALT FACIES 3 INTERP

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN

N346
N347
N341
N343
N344
N345
N342

AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
VAR-01
VARD-02

Soviet Fault

C
D

INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None

Simon J Meldrum

Notes:
WGS84 Datum

Note:
Black lines- Soviet trenche

Scale
1 : 16889.87

Plot Date
11-Jun-2025

Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT
RGEOL_ASD DATA
CHLORITE MIN INT

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
N346
N347
N341
N343
N344
N345
N342
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
VARD-01
VARD-02
Soviet Fault
C
D
INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Black lines- Soviet trenche
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_ASD DATA
CALCITE MIN INT
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN

N346
N347
N341
N343
N344
N345
N342

AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
VARD-01
VARD-02

Soviet Fault

INTENSITIES
- Intense
- V strong
- Strong
- Moderate
- Weak
- Trace
- None

Simon J Meldrum	Notes: WGS84 Datum	Note: Black lines- Soviet trenche	Scale 1 : 16889.87	Plot Date 11-Jun-2025 / Sheet 1 of 1 / Plot File: Vizex	100 0 100 200m

VARDENIS PROJECT
RGEOL_ASD DATA
SERICITE MIN INT

HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
N346
N347
N341
N343
N344
N345
N342
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
ARD-01
ARD-02
Soviet Fault
C
D
INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Black lines- Soviet trenche
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_ASD DATA
MONTLERILLONITE MIN INT
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN

N346
N347
N341
N343
N344
N345
N342

AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
ARD-01
ARD-02

Soviet Fault

C
D

INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None

Simon J Meldrum

Notes:
WGS84 Datum

Note:
Black lines- Soviet trenche

Scale
1 : 16889.87

Plot Date
11-Jun-2025

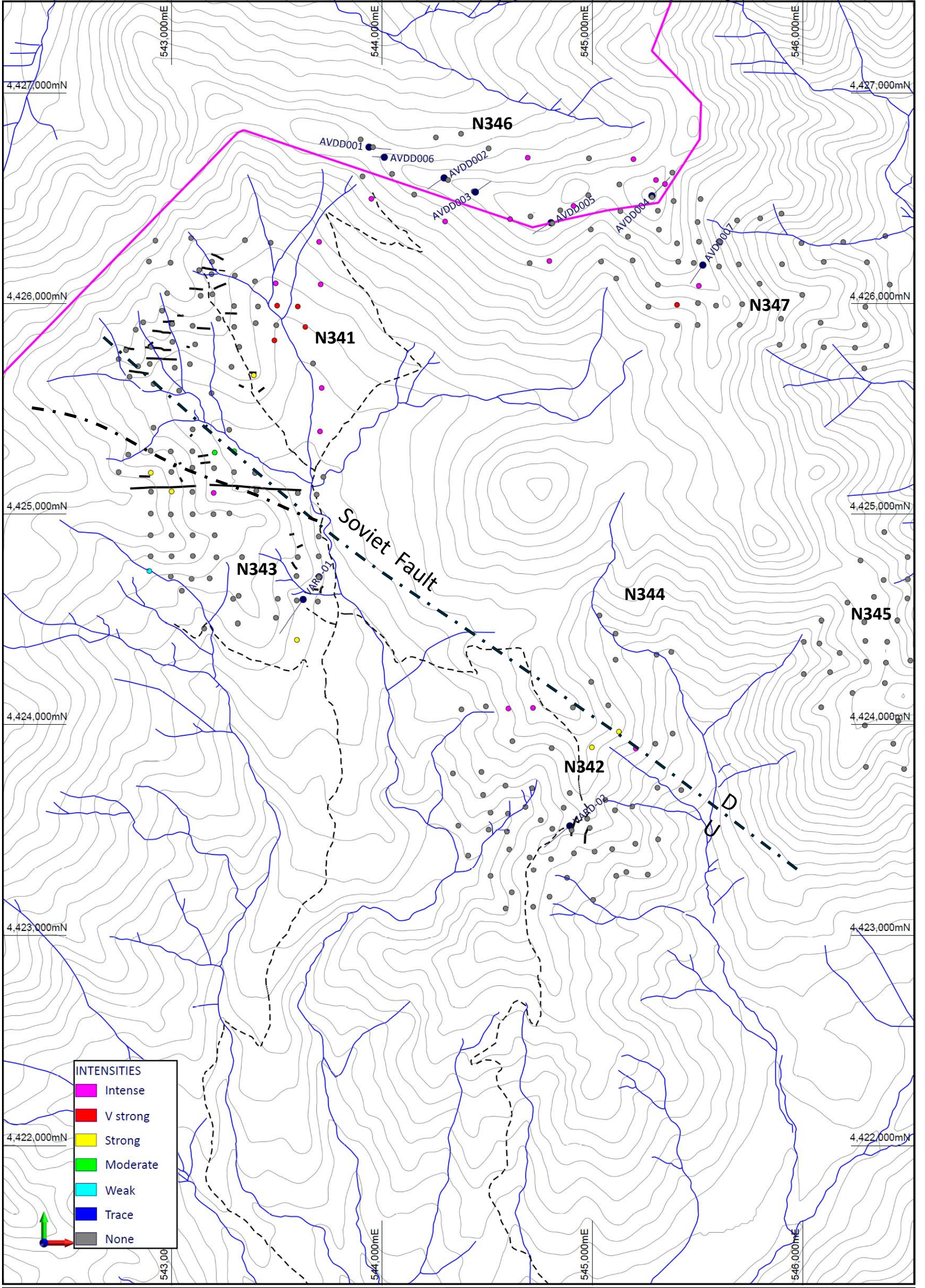
Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT
RGEOL_ASD DATA
KAOLINITE MIN INT

HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum	Note: Black lines- Soviet trenche	Scale 1 : 16889.87 Plot Date 11-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT RGEOL_ASD DATA ALUNITE MIN INT	HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN

N346
N347
N341
N343
N344
N345
N342

AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
VARD-01
VARD-02

Soviet Fault

C
D

INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None

Simon J Meldrum

Notes:
WGS84 Datum

Note:
Black lines- Soviet trenche

Scale
1 : 16889.87

Plot Date
11-Jun-2025

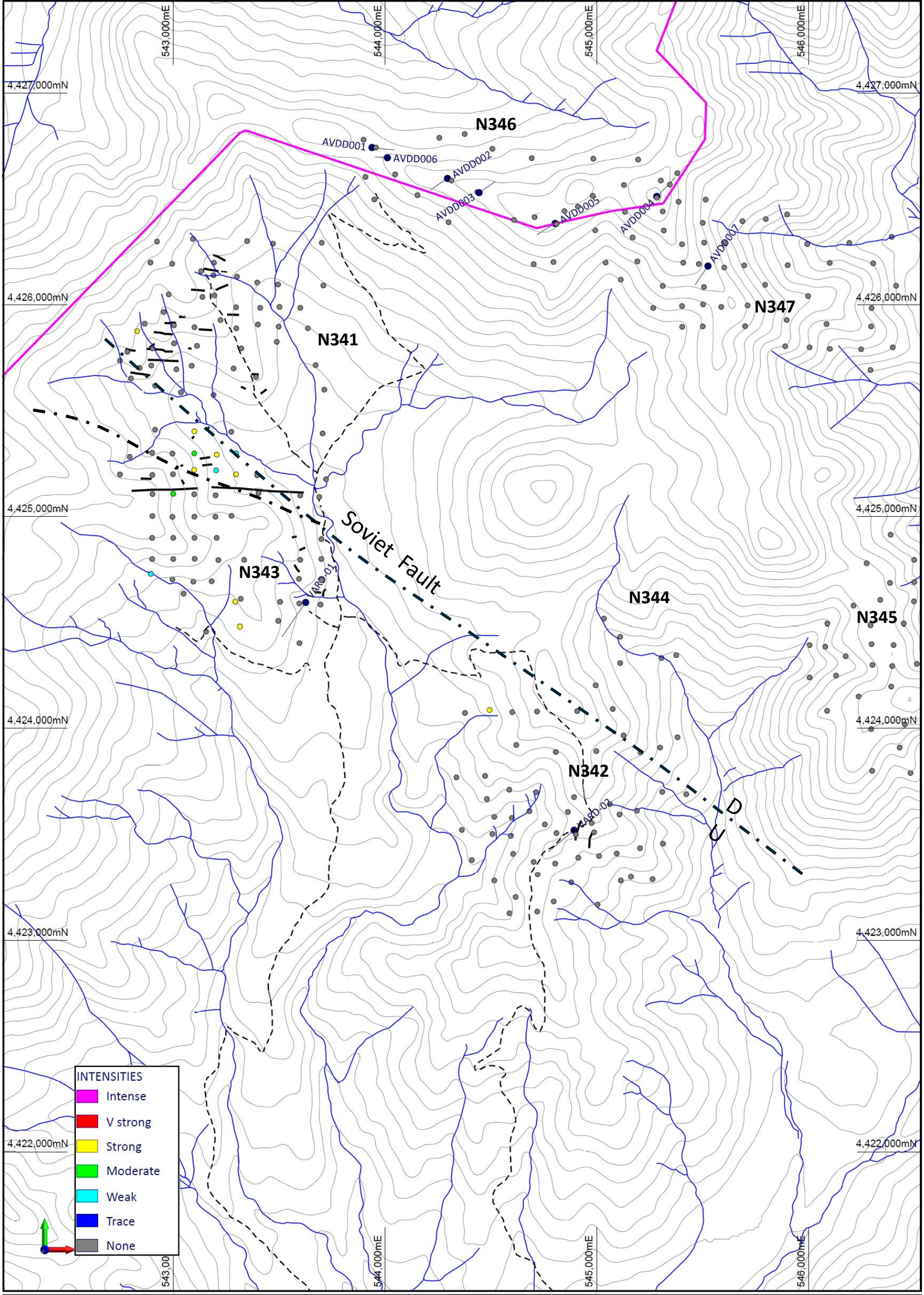
Sheet
1 of 1

Plot File: Vizex

100 0 100 200m

VARDENIS PROJECT
RGEOL_ASD DATA
PYROPHYLLITE MIN INT

HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum	Note: Black lines- Soviet trenche	Scale 1 : 16889.87 Plot Date 11-Jun-2025 Sheet 1 of 1 Plot File: Vizex 100 0 100 200m	VARDENIS PROJECT RGEOL_ASD DATA TOPAZ MIN INT	HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
N346
N347
N341
N343
N344
N345
N342
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
VARD-01
VARD-02
Soviet Fault
C
D
INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None
Simon J Meldrum
Notes:
WGS84 Datum
Note:
Black lines- Soviet trenche
Scale
1 : 16889.87
Plot Date
11-Jun-2025
Sheet
1 of 1
Plot File: Vizex
100 0 100 200m
VARDENIS PROJECT
RGEOL_ASD DATA
DICKITE MIN INT
HAYASA METALS

543,000mE
544,000mE
545,000mE
546,000mE
4,427,000mN
4,426,000mN
4,425,000mN
4,424,000mN
4,423,000mN
4,422,000mN
N346
N347
N341
N343
N344
N345
N342
AVDD001
AVDD006
AVDD002
AVDD003
AVDD005
AVDD004
AVDD007
VARD-01
VARD-02
Soviet Fault
C
D
INTENSITIES
Intense
V strong
Strong
Moderate
Weak
Trace
None

Simon J Meldrum	Notes: WGS84 Datum	Note: Black lines- Soviet trenche	Scale 1 : 16889.87 · Plot Date 11-Jun-2025 · Sheet 1 of 1 · Plot File: Vizex · 100 0 100 200m	VARDENIS PROJECT RGEOL_ASD DATA JAROSITE MIN INT	HAYASA METALS

VARDENIS PROJECT

APPENDIX VI

SOVIET TARGET

SOVIET TARGET
(1000m x 600m)

CKB N5
CKB K2
CKB N6
CKB K1
CKB K3
CKB N1
CKB N2
CKB N4
CKB N9
CKB K8
CKB N3
CKB K6
CKB N7
CKB K5
CKB K4
CKB K10

k130 - 130
k90 - 90 a
k104
k146
k148
k154
k91
k9
k70
k124
k151
k22
k64
k58
k23
k62
k63
k14
k80
k85
k81 2
k82k82k83
k125
k59
k10
k9
k3
k20
k135
k79 a
k152k153
k28
k55
k78
k12
k77 9
k77 8
k77 7
k77 6
k77 5
k77 4
k77 2
k77 1
k70
k57
k60
k54
k158
k73
k18
k72
k74
k21
k20
k75
k25

w21 w10 w78 w26 w72 w8 w59 w74 w28 w2 w7 w30 w9 w14 w31 w33 w32 w12 w16 w17 w70 w67 w5 w3 w38 w48 w45 w47 w44 w25 w65 w64 w43

4,426,250mN
4,426,000mN
4,425,750mN
4,425,500mN
4,425,250mN
4,425,000mN
4,424,750mN

542,750mE
543,000mE
543,250mE
543,500mE
543,750mE

Simon J Meldrum	Notes: WGS84 Datum	Pit - green Trenches - black GPS track log - cyan	Scale 1 : 4846.47 Plot Date 13-Jun-2025 Sheet 1 of 1 Plot File: Vizex 50 0 50 100m	VARADENIS PROJECT SOVIET TARGET BAST PLAN - GPS DATA	HAYASA METALS

542,750mE
543,000mE
543,250mE
543,500mE
543,750mE

4,426,250mN
4,426,000mN
4,425,750mN
4,425,500mN
4,425,250mN
4,425,000mN
4,424,750mN

SOVIET TARGET
(1000m x 600m)

CKB N5
CKB K2
CKB N6
CKB K1
CKB K3
CKB N1
CKB N2
CKB N4
CKB N9
CKB K8
CKB N3
CKB K6
CKB N7
CKB K5
CKB K4
CKB K10

MID EOCENE
MSED / VAt/VD

MID EOCENE
VA f P / VAq fq P

IPgd IPdiq

MID EOCENE
VA f P

QUATERNARY
VBA

MID EOCENE
IPgd IPdiq

SOVIET FAULT

RAZMIK NW

Simon J Meldrum	Notes: WGS84 Datum	Note:	Scale 1 : 4846.47	Plot Date 13-Jun-2025 / Sheet 1 of 1 / Plot File: Vizex	VARADENIS PROJECT SOVIET TARGET SOVIET GEOLOGY PLAN

50 0 50 100m

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

MID EOCENE
MSED / VAt/VD

VA f P / VAq fq P

IPgd IPdiq

MID EOCENE
VA f P

QUATERNARY
VBA

MID EOCENE
IPgd IPdiq

RAZMIK NW

SOVIET FAULT

CKB N5
CKB K2
CKB N6
CKB K1
CKB N1
CKB N3
CKB N7
CKB K6
CKB K8
CKB K10

LITH PLOT
- Pad fill
- Totally altered
- Fault
- Quartz vein
- Quartz sulphide vein
- Hydrothermal breccia
- Phreatic breccia
- Dacitic porphyry
- Quartz diorite porphyry
- Dioritic porphyry
- Undefined dyke
- Skarn
- Quartz diorite plutoinic
- Diorite plutonic
- Quartz andesite
- Andesite
- Basaltic andesite
- Basalt
- Metasediment

542,750mE
543,000mE
543,250mE
543,500mE
543,750mE
4,426,250mN
4,426,000mN
4,425,750mN
4,425,500mN
4,425,250mN
4,425,000mN
4,424,750mN

Simon J Meldrum

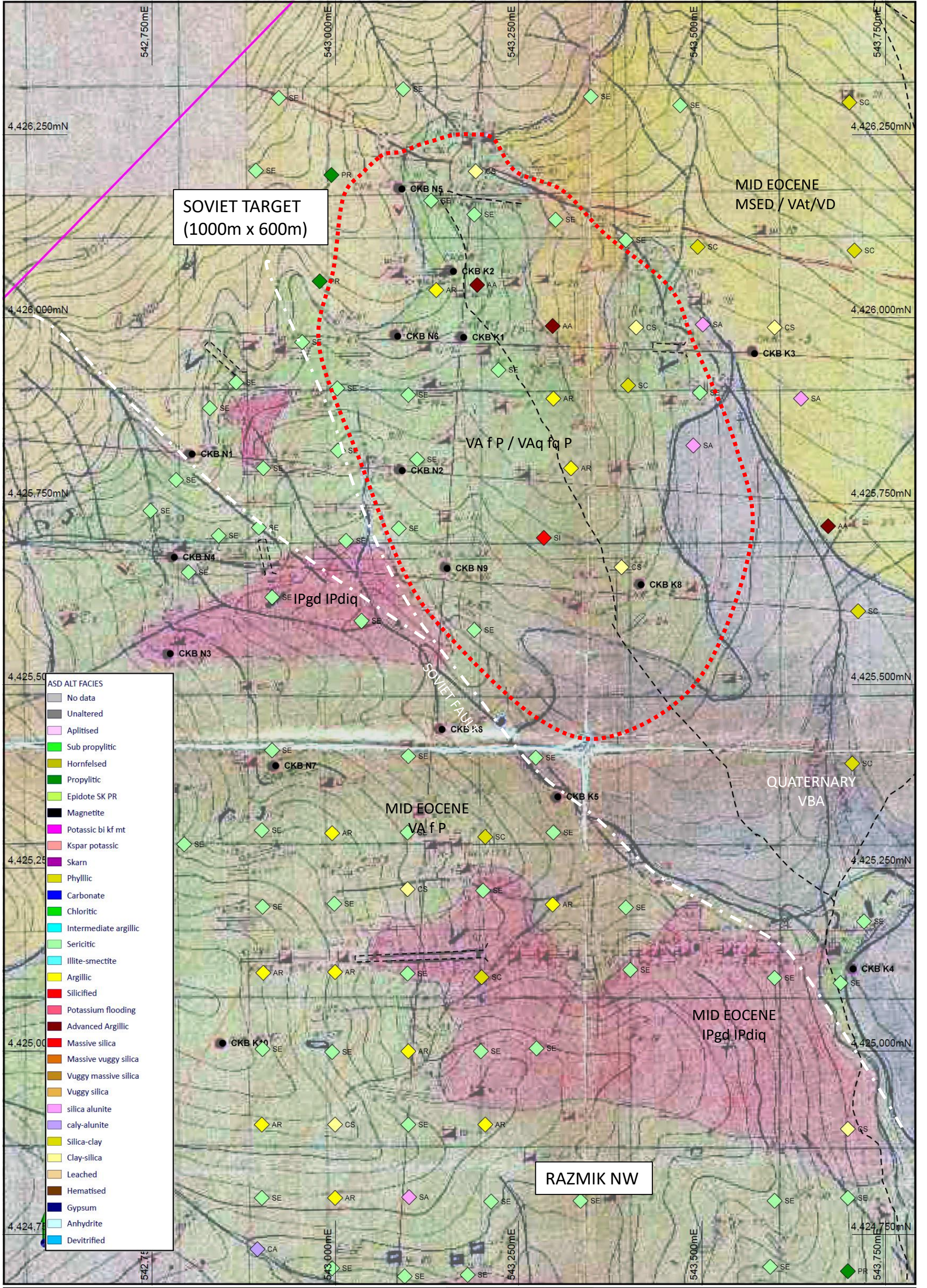
Notes:
WGS84 Datum

RGEOL_QL LITH PLT

Scale 1 : 4846.47
Plot Date 13-Jun-2025
Sheet 1 of 1
Plot File: Vizex
50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET 3D
SOVIET & ROCK LITHOLOGIES

HAYASA METALS



Simon J Meldrum	Notes: WGS84 Datum	RGEOL_QL LITH PLT	Scale 1 : 4846.47	Plot Date 13-Jun-2025 / Plot File: Vizex / Sheet 1 of 1	VARADENIS PROJECT SOVIET TARGET 3D SOVIET & ASD ALT FACIES 1	HAYASA METALS

SOVIET TARGET
(1000m x 600m)

MID EOCENE
MSED / VAt/VD

VA f P / VAq fg P

IPgd IPdiq

MID EOCENE
VA f P

QUATERNARY
VBA

MID EOCENE
IPgd IPdiq

RAZMIK NW

SOVIET FAULT

CKB N1
CKB N2
CKB N3
CKB N4
CKB N5
CKB N6
CKB N7
CKB N9
CKB K1
CKB K2
CKB K3
CKB K4
CKB K5
CKB K8
CKB K10

ASD ALT FACIES
- No data
- Unaltered
- Aplitised
- Sub propylitic
- Hornfelsed
- Propylitic
- Epidote SK PR
- Magnetite
- Potassic bi kf mt
- Kspar potassic
- Skarn
- Phylllic
- Carbonate
- Chloritic
- Intermediate argillic
- Sericitic
- Illite-smectite
- Argillic
- Silicified
- Potassium flooding
- Advanced Argillic
- Massive silica
- Massive vuggy silica
- Vuggy massive silica
- Vuggy silica
- silica alunite
- caly-alunite
- Silica-clay
- Clay-silica
- Leached
- Hematised
- Gypsum
- Anhydrite
- Devitrified

Simon J Meldrum

Notes:
WGS84 Datum

RGEOL_QL LITH PLT

Scale 1 : 4846.47 | Plot Date 13-Jun-2025 | Sheet 1 of 1 | Plot File: Vizex

50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET 3D
SOVIET & ASD ALT FACIES 2

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

MID EOCENE
MSED / VAt/VD

VA

IPgd IPdiq

MID EOCENE
VA f P

QUATERNARY
VBA

MID EOCENE
IPgd IPdiq

RAZMIK NW

SOVIET FAULT

CKB N1
CKB N2
CKB N3
CKB N4
CKB N5
CKB N6
CKB N7
CKB N9
CKB K1
CKB K2
CKB K3
CKB K4
CKB K5
CKB K8
CKB K10

ASD ALT FACIES
- No data
- Unaltered
- Aplitised
- Sub propylitic
- Hornfelsed
- Propylitic
- Epidote SK PR
- Magnetite
- Potassic bi kf mt
- Kspar potassic
- Skarn
- Phylllic
- Carbonate
- Chloritic
- Intermediate argillic
- Sericitic
- Illite-smectite
- Argillic
- Silicified
- Potassium flooding
- Advanced Argillic
- Massive silica
- Massive vuggy silica
- Vuggy massive silica
- Vuggy silica
- silica alunite
- caly-alunite
- Silica-clay
- Clay-silica
- Leached
- Hematised
- Gypsum
- Anhydrite
- Devitrified

Simon J Meldrum

Notes:
WGS84 Datum

RGEOL_QL LITH PLT

Scale 1 : 4846.47
Plot Date 13-Jun-2025
Sheet 1 of 1
Plot File: Vizex
50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET 3D
SOVIET & ASD ALT FACIES 3

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

RAZMIK NW

SOVIET FAULT

CKB N1
CKB N2
CKB N3
CKB N4
CKB N5
CKB N6
CKB N7
CKB N9
CKB K1
CKB K2
CKB K3
CKB K4
CKB K5
CKB K6
CKB K8
CKB K10

SOIL Au ppb
- > 500
- 500 to 250
- 250 to 100
- 100 to 75
- 75 to 50
- 50 to 25
- <= 25

ROCK Au ppm
- > 2.500
- 2.500 to 1.000
- 1.000 to 0.500
- 0.500 to 0.250
- 0.250 to 0.100
- 0.100 to 0.050
- <= 0.050

542,750mE
543,000mE
543,250mE
543,500mE
543,750mE
4,426,250mN
4,426,000mN
4,425,750mN
4,425,500mN
4,425,250mN
4,425,000mN
4,424,750mN

Simon J Meldrum

Notes:
WGS84 Datum

Scale 1 : 4846.47
Plot Date 13-Jun-2025
Sheet 1 of 1
Plot File: Vizex
50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET
Au in soil & rock

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

RAZMIK NW

SOVIET FAULT

CKB N1
CKB N2
CKB N3
CKB N4
CKB N5
CKB N6
CKB N7
CKB N9
CKB K1
CKB K2
CKB K3
CKB K4
CKB K5
CKB K6
CKB K8
CKB K10

542,750mE
543,000mE
543,250mE
543,500mE
543,750mE

4,426,250mN
4,426,000mN
4,425,750mN
4,425,500mN
4,425,250mN
4,425,000mN
4,424,750mN

SOIL Ag ppm
> 500
500 to 250
250 to 100
100 to 75
75 to 50
50 to 25
<= 25

ROCK Ag ppm
> 25.0
25.0 to 10.0
10.0 to 7.5
7.5 to 5.0
5.0 to 2.5
2.5 to 1.0
<= 1.0

Simon J Meldrum

Notes:
WGS84 Datum

Scale
1 : 4846.47

Plot Date
13-Jun-2025

Sheet
1 of 1

Plot File: Vizex

50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET
Ag in soil & rock

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

RAZMIK NW

SOVIET FAULT

CKB N1
CKB N2
CKB N3
CKB N4
CKB N5
CKB N6
CKB N7
CKB N9
CKB K2
CKB K3
CKB K4
CKB K5
CKB K6
CKB K8
CKB K10

542,750mE
543,000mE
543,250mE
543,500mE
543,750mE

4,426,250mN
4,426,000mN
4,425,750mN
4,425,500mN
4,425,250mN
4,425,000mN
4,424,750mN

SOIL Cu ppm
- > 350.0
- 350.0 to 250.0
- 250.0 to 150.0
- 150.0 to 100.0
- 100.0 to 50.0
- 50.0 to 25.0
- <= 25.0

ROCK Cu ppm
- > 5000
- 5000 to 2500
- 2500 to 1000
- 1000 to 500
- 500 to 250
- 250 to 100
- <= 100

Simon J Meldrum

Notes:
WGS84 Datum

Scale
1 : 4846.47

Plot Date
13-Jun-2025

Sheet
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Plot File: Vizex

50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET
Cu in soil & rock

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

CKB N5
CKB N6
CKB K2
CKB K3
CKB N1
CKB N2
CKB N4
CKB N9
CKB K8
CKB N3
CKB N7
CKB K6
CKB K5
CKB K4
CKB K10

SOVIET FAULT

RAZMIK NW

SOIL Pb ppm
- >= 500
- 500 to 250
- 250 to 100
- 100 to 75
- 75 to 50
- 50 to 25
- < 25

ROCK Pb ppm
- > 10000
- 10000 to 5000
- 5000 to 2500
- 2500 to 1000
- 1000 to 500
- 500 to 250
- <= 250

542,750mE | 543,000mE | 543,250mE | 543,500mE | 543,750mE

4,426,250mN | 4,426,000mN | 4,425,750mN | 4,425,500mN | 4,425,250mN | 4,425,000mN | 4,424,750mN

Simon J Meldrum

Notes:
WGS84 Datum

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50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET
Pb in soil & rock

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

RAZMIK NW

SOVIET FAULT

CKB N1
CKB N2
CKB N3
CKB N4
CKB N5
CKB N6
CKB N7
CKB N9
CKB K2
CKB K3
CKB K4
CKB K5
CKB K6
CKB K8
CKB K10

542,750mE
543,000mE
543,250mE
543,500mE
543,750mE

4,426,250mN
4,426,000mN
4,425,750mN
4,425,500mN
4,425,250mN
4,425,000mN
4,424,750mN

SOIL Zn ppm
- > 500.0
- 500.0 to 400.0
- 400.0 to 300.0
- 300.0 to 200.0
- 200.0 to 100.0
- 100.0 to 50.0
- <= 50.0

ROCK Zn ppm
- > 2500
- 2500 to 1000
- 1000 to 500
- 500 to 250
- 250 to 100
- 100 to 50
- <= 50

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50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET
Zn in soil & rock

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

RAZMIK NW

SOVIET FAULT

CKB N1
CKB N2
CKB N3
CKB N4
CKB N5
CKB N6
CKB N7
CKB N9
CKB K1
CKB K2
CKB K3
CKB K4
CKB K5
CKB K6
CKB K8
CKB K10

542,750mE
543,000mE
543,250mE
543,500mE
543,750mE

4,426,250mN
4,426,000mN
4,425,750mN
4,425,500mN
4,425,250mN
4,425,000mN
4,424,750mN

SOIL Mo ppm
> 10.0
10.0 to 8.0
8.0 to 6.0
6.0 to 4.0
4.0 to 2.0
2.0 to 1.0
<= 1.0

ROCK Mo ppm
> 100
100 to 50
50 to 25
25 to 10
10 to 5
5 to 2
<= 2

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50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET
Mo in soil & rock

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

RAZMIK NW

SOVIET FAULT

CKB N1
CKB N2
CKB N3
CKB N4
CKB N5
CKB N6
CKB N7
CKB N9
CKB K3
CKB K4
CKB K5
CKB K6
CKB K8
CKB K10

542,750mE
543,000mE
543,250mE
543,500mE
543,750mE

4,426,250mN
4,426,000mN
4,425,750mN
4,425,500mN
4,425,250mN
4,425,000mN
4,424,750mN

SOIL Sb ppm
> 25.0
25.0 to 20.0
20.0 to 15.0
15.0 to 10.0
10.0 to 5.0
5.0 to 2.5
<= 2.5

ROCK Sb ppm
> 500.0
500.0 to 250.0
250.0 to 100.0
100.0 to 50.0
50.0 to 25.0
25.0 to 10.0
<= 10.0

Simon J Meldrum

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50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET
Sb in soil & rock

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

RAZMIK NW

SOVIET FAULT

CKB N1
CKB N2
CKB N3
CKB N4
CKB N5
CKB N6
CKB N7
CKB N9
CKB K3
CKB K4
CKB K5
CKB K6
CKB K8
CKB K10

542,750mE
543,000mE
543,250mE
543,500mE
543,750mE

4,426,250mN
4,426,000mN
4,425,750mN
4,425,500mN
4,425,250mN
4,425,000mN
4,424,750mN

SOIL As ppm
> 500.0
500.0 to 250.0
250.0 to 100.0
100.0 to 50.0
50.0 to 25.0
25.0 to 10.0
<= 10.0

ROCK AS ppm
> 1000.0
1000.0 to 750.0
750.0 to 500.0
500.0 to 250.0
250.0 to 100.0
100.0 to 50.0
<= 50.0

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Notes:
WGS84 Datum

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50 0 50 100m

VARADENIS PROJECT
SOVIET TARGET
As in soil & rock

HAYASA METALS

SOVIET TARGET
(1000m x 600m)

MID EOCENE
MSED / VAt/VD

IPgd IPdiq

VA f P / VAq fq P

MID EOCENE
VA f P

IPgd IPdiq

QUATERNARY
VBA

RAZMIK NW

QUATERNARY
VBA

MID EOCENE
IPgd IPdiq

Simon J Meldrum	Notes: WGS84 Datum	Note: Soviet Geology Image 3D	Scale 1 : 6693.29	Plot Date 13-Jun-2025 / Sheet 1 of 1 / Plot File: Vizex	VARADENIS PROJECT SOVIET TARGET 3D IP LINES P7 TO P10	HAYASA METALS

SOVIET TARGET
(1000m x 600m)

RAZMIK NW

Simon J Meldrum	Notes: WGS84 Datum	Note: Viewed from the SE	Scale 1 : 6693.29 Plot Date 13-Jun-2025 Sheet 1 of 1 Plot File: Vizex 50 0 50 100m	VARADENIS PROJECT SOVIET TARGET 3D IP LINES P7 TO P10 CHARGEABILITY	HAYASA METALS

SOVIET TARGET
(1000m x 600m)

RAZMIK NW

CKB N1
CKB N3
CKB N4
CKB N6
CKB N9
CKB K1
CKB K2
CKB K3
CKB K4
CKB K5
CKB K8
CKB K10
VA

Simon J Meldrum	Notes: WGS84 Datum	Note: Viewed from the SE	Scale 1 : 6693.29 · Plot Date 13-Jun-2025 · Sheet 1 of 1 · Plot File: Vizex · 50 0 50 100m	VARADENIS PROJECT SOVIET TARGET 3D IP LINES P7 TO P10 RESISTIVITY	HAYASA METALS