144-874B-23R-3 (Piece 6, 40–42 cm) ROCK NAME: Ankaramite GRAIN SIZE: Porphyritic, microcrystalline. TEXTURE: Porphyritic, intersertal.

OBSERVER: DMC

WHERE SAMPLED: Within thick flow. Unit 1.

PRIMARY	PERCENT	PERCENT	SIZE	COMPO-		
MINERALOGY	PRESENT	ORIGINAL	(mm)	SITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	0	25	1-3		Subhedral.	Completely altered.
Clinopyroxene	>15	20	0.2-4.0		Euhedral or broken.	
Plagioclase	0	5	1-3		Uncertain.	Completely altered, identified by comparison with deeper samples.
GROUNDMASS					14	
Olivine	0	5	0.02		Anhedral.	Altered orange.
Plagioclase	<10	40	<0.1		Laths and	Cloudy alteration.
					interstitial.	
Clinopyroxene	40	40	0.02 - 0.05		Prisms.	
Magnetite	10	10	0.02		Octahedra.	
SECONDARY		REPLACING/				
MINERALOGY	PERCENT	FILLING			COMMENTS	
Zeolite	5	Plagioclase p	henocrysts			Colorless, radiating aggregates.
Iddingsite	5	Olivine				Orange, replacing groundmass grains and rims of phenocrysts.
Clay	20	Olivine				Dark green then brown.
Hematite	2	Olivine				In cracks in olivine pseudomorphs.

144-874B-24R-1 (Piece 1, 18-20 cm) OBSERVER: DMC WHERE SAMPLED: Within thick flow. Unit 1. ROCK NAME: Ankaramite GRAIN SIZE: Porphyritic, microcrystalline. TEXTURE: Porphyritic, intersertal. PRIMARY PERCENT PERCENT SIZE COMPO-MINERALOGY PRESENT ORIGINAL COMMENTS SITION MORPHOLOGY (mm) PHENOCRYSTS Olivine 15 202 - 3Anhedral to Altered on cracks and grain boundaries. subhedral. Clinopyroxene 20 20 Most colorless, some distinctly brown. 2 - 5Equant prisms. Plagioclase 0 5-10 1 - 3Anhedral. Completely altered. GROUNDMASS Titanaugite 30 30 0.01-0.05 Equant prisms. Brown. Cubes and octahedra. Magnetite 10 10 0.02 Matrix 60 < 0.05 Interstitial. Dark green clay. SECONDARY REPLACING/ MINERALOGY PERCENT FILLING COMMENTS Zeolite? 5 - 10Plagioclase Coarse polycrystalline aggregates of equant, low birefringent, low 2V crystals. 60 Green clay Undifferentiated matrix Iddingsite 5 Olivine Along cracks and grain margins. COMMENTS: Interesting varibility in clinopyroxene. Matrix altered.

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144-874B-24R-4 (Piece 1, 17–19 cm) ROCK NAME: Ankaramite GRAIN SIZE: Porphyritic, microcrystalline. TEXTURE: Porphyritic, intergranular. OBSERVER:DMC

WHERE SAMPLED: Within thick flow. Unit 1.

PRIMARY	PERCENT	PERCENT	SIZE	COMPO-	1992	
MINERALOGY	PRESENT	ORIGINAL	(mm)	SITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	10	25	1-3		Subhedral	Partially altered.
Clinopyroxene	15	15	2-5		Equant prisms.	Pale brown.
Plagioclase	10	10	0.2-2		Equant prisms.	Little altered. Often as glomerocrysts associated with clinopyroxene.
GROUNDMASS						
Plagioclase	20	25	0.05-0.1		Laths.	
Titanaugite.	25	25	0.05-0.1		Prisms.	
Ilmenite	10	10	0.01-0.02		Skeletal.	
Matrix	25		< 0.05		Interstitial.	Undifferentiable. Altered to dark green clay.
SECONDARY		REPLACING/				
MINERALOGY	PERCENT	FILLING				COMMENTS
Clay	25	Matrix				Dark green.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyr	nite itic, microcrystall	1)	OBSERVER	: DMC	WHERE SAMPLED:	Within thick flow. Unit 1.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri FEXTURE: Porphyritic	e 10, 112–113 cn nite itic, microcrystalli , intergranular.	i) ine.	OBSERVER	: DMC	WHERE SAMPLED:	Within thick flow. Unit 1.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri TEXTURE: Porphyritic PRIMARY	e 10, 112–113 cm nite itic, microcrystalli ; intergranular. PERCENT	n) ine. PERCENT	OBSERVER	COMPO-	WHERE SAMPLED:	
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri TEXTURE: Porphyritic PRIMARY	e 10, 112–113 cm nite itic, microcrystalli ; intergranular.	i) ine.			WHERE SAMPLED:	Within thick flow. Unit 1.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri FEXTURE: Porphyritic PRIMARY MINERALOGY	e 10, 112–113 cm nite itic, microcrystalli ; intergranular. PERCENT	n) ine. PERCENT	SIZE	COMPO-		
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri FEXTURE: Porphyritic PRIMARY MINERALOGY	e 10, 112–113 cm nite itic, microcrystalli ; intergranular. PERCENT	n) ine. PERCENT	SIZE	COMPO-		
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri TEXTURE: Porphyritic PRIMARY MINERALOGY PHENOCRYSTS Olivine Clinopyroxene	e 10, 112–113 cm nite itic, microcrystalli , intergranular. PERCENT PRESENT	i) ine. PERCENT ORIGINAL	SIZE (mm)	COMPO-	MORPHOLOGY	COMMENTS
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri TEXTURE: Porphyritic PRIMARY MINERALOGY PHENOCRYSTS Olivine	e 10, 112–113 cm nite itic, microcrystalli , intergranular. PERCENT PRESENT 222) PERCENT ORIGINAL 25	SIZE (mm) 2-5	COMPO-	MORPHOLOGY Euhedral	COMMENTS Minor alteration only.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri TEXTURE: Porphyritic PRIMARY MINERALOGY PHENOCRYSTS Olivine Clinopyroxene Plagioclase	e 10, 112–113 cm nite itic, microcrystalli , intergranular. PERCENT PRESENT 22 5	PERCENT ORIGINAL 25 5	SIZE (mm) 2-5 2-4	COMPO-	MORPHOLOGY Euhedral Subhedral.	COMMENTS Minor alteration only.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyr TEXTURE: Porphyritic PRIMARY MINERALOGY PHENOCRYSTS Olivine Clinopyroxene Plagioclase	e 10, 112–113 cm nite itic, microcrystalli , intergranular. PERCENT PRESENT 22 5	PERCENT ORIGINAL 25 5	SIZE (mm) 2-5 2-4	COMPO-	MORPHOLOGY Euhedral Subhedral.	COMMENTS Minor alteration only.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri FEXTURE: Porphyritic PRIMARY MINERALOGY PHENOCRYSTS Olivine Clinopyroxene Plagioclase GROUNDMASS	2 10, 112–113 cm nite itic, microcrystalli , intergranular. PERCENT PRESENT 22 5 10) PERCENT ORIGINAL 25 5 10	SIZE (mm) 2-5 2-4 0.2-1	COMPO-	MORPHOLOGY Euhedral Subhedral. Equant prisms. Prisms.	COMMENTS Minor alteration only.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri FEXTURE: Porphyritic PRIMARY MINERALOGY PHENOCRYSTS Olivine Clinopyroxene Plagioclase GROUNDMASS Titanaugite	e 10, 112–113 cm nite itic, microcrystalli , intergranular. PERCENT PRESENT 22 5 10 40	PERCENT ORIGINAL	SIZE (mm) 2-5 2-4 0.2-1 0.01-0.05	COMPO-	MORPHOLOGY Euhedral Subhedral. Equant prisms. Prisms. Laths and prisms. Cubes and skeletal	COMMENTS Minor alteration only.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri FEXTURE: Porphyritic PRIMARY MINERALOGY PHENOCRYSTS Olivine Clinopyroxene Plagioclase GROUNDMASS Titanaugite Plagioclase	e 10, 112–113 cm nite itic, microcrystalli , intergranular. PERCENT PRESENT 22 5 10 40 40	1) PERCENT ORIGINAL 25 5 10 40 40	SIZE (mm) 2-5 2-4 0.2-1 0.01-0.05 0.01-0.05	COMPO-	MORPHOLOGY Euhedral Subhedral. Equant prisms. Prisms. Laths and prisms.	COMMENTS Minor alteration only.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri TEXTURE: Porphyritic PRIMARY MINERALOGY PHENOCRYSTS Olivine Clinopyroxene Plagioclase GROUNDMASS Titanaugite Plagioclase Magnetite Matrix	e 10, 112–113 cm nite itic, microcrystalli , intergranular. PERCENT PRESENT 22 5 10 40 40 15	 PERCENT ORIGINAL 25 5 10 40 40 15 - 	SIZE (mm) 2-5 2-4 0.2-1 0.01-0.05 0.01-0.05 0.02	COMPO-	MORPHOLOGY Euhedral Subhedral. Equant prisms. Prisms. Laths and prisms. Cubes and skeletal needles.	COMMENTS Minor alteration only. Pale brown. Rich in melt and fluid inclusions.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri TEXTURE: Porphyritic PRIMARY MINERALOGY PHENOCRYSTS Olivine Clinopyroxene Plagioclase GROUNDMASS Titanaugite Plagioclase Magnetite Matrix SECONDARY	e 10, 112–113 cm nite itic, microcrystalli , intergranular. PERCENT PRESENT 22 5 10 40 40 15 5	 PERCENT ORIGINAL 25 5 10 40 40 15 REPLACING/ 	SIZE (mm) 2-5 2-4 0.2-1 0.01-0.05 0.01-0.05 0.02	COMPO-	MORPHOLOGY Euhedral Subhedral. Equant prisms. Prisms. Laths and prisms. Cubes and skeletal needles.	COMMENTS Minor alteration only. Pale brown. Rich in melt and fluid inclusions. Green/brown undifferentiable.
144-874B-24R-4 (Piece ROCK NAME: Ankaran GRAIN SIZE: Porphyri TEXTURE: Porphyritic PRIMARY MINERALOGY PHENOCRYSTS Olivine Clinopyroxene Plagioclase GROUNDMASS Titanaugite Plagioclase Magnetite Matrix	e 10, 112–113 cm nite itic, microcrystalli , intergranular. PERCENT PRESENT 22 5 10 40 40 15	 PERCENT ORIGINAL 25 5 10 40 40 15 - 	SIZE (mm) 2-5 2-4 0.2-1 0.01-0.05 0.01-0.05 0.02	COMPO-	MORPHOLOGY Euhedral Subhedral. Equant prisms. Prisms. Laths and prisms. Cubes and skeletal needles.	COMMENTS Minor alteration only. Pale brown. Rich in melt and fluid inclusions.

COMMENTS: Unusually fresh. Best this hole.