

GLO1869



THE UNIVERSITY OF WYOMING  
DEPARTMENT OF GEOLOGY AND GEOPHYSICS  
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Mr. P. M. Wright  
University of Utah Research Institute  
Earth Science Laboratory  
391 Chipeta Way, Suite C  
Salt Lake City, Utah 84108-1295

5 April 1987

Dear Mike,

Please find enclosed a copy of my lithologic log for the GEO N-3 core which I inspected last week. I expect to have a more 'official' looking version sometime soon. Below is a list of the samples which I took. The number refers to the depth in feet. Average sample size was 4". Thank you again for your cooperation.

Best regards,

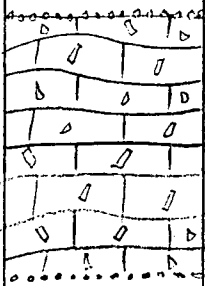
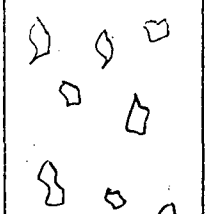
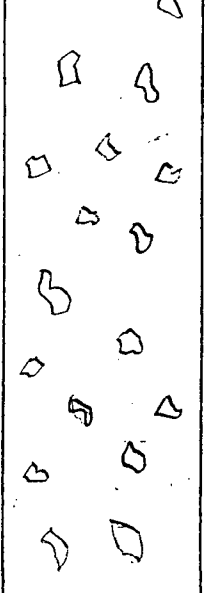
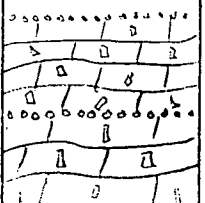

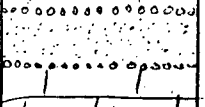
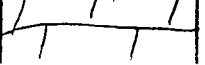
A handwritten signature in cursive script that reads "Scott Linneman". The signature is written in dark ink and is positioned above the typed name.

Scott Linneman

U.W. Sample List From GEO N-3 Core (n=77)

464	508	600	710	744	765	796	829	913	958	1014	1066	1103
1144	1168	1241	1281	1334	1378	1420	1449	1501	1525	1548		
1583	1597	1715	1765	1790	1796	1974	2037	2100	2122	2175		
2199	2214	2243	2283	2343	2382	2408	2435	2451	2487	2529		
2574	2648	2683	2733	2773	2799	2817	2844	2874	2924	2999		
3024	3070	3133	3143	3205	3240	3245	3342	3361	3432	3611		
3642	3726	3743	3780	3835	3876	3888	3918	3966				

LITHOLOGIC LOG OF GEO N-3 CORE  
 Scott Linneman 4/87

(ft) DEPTH	UW SAMPLE	LITHOLOGY	DESCRIPTION	ALTERATION
453	464		Coarsely porphyritic b-a 15% phenos: pl (<1cm) >> ol = cp (<2mm) grey glass granules	none
500	508			
600	600		Unconsolidated cinders and scoria (near vent) (of the porphyritic b-a above)	minor oxidation + some sulfur
700	710		Mod. porphyritic b-a 5% phenos: pl > cp > ol (<2mm)	
	744		slightly pink oxidized granules	
	765		4' white lapilli airtall (3mm lap)	
	796		V. fine gr. b-a: (<<1% pl phenos)	

LITHOLOGIC LOG OF GEO N-3 CORE  
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DEPTH	UW SAMPLE	LITHOLOGY	DESCRIPTION	ALTERATION
800				
	809		V. fine gr b-a flow (< 1% pl phenos)  Platy at bottom	oxidized platy surfaces
900	913		<hr/> Coarsely porphyritic b-a	
	958		10% phenos: pl (< 4mm) >> ol (< 3mm)	
			<hr/> V. fine gr b-a (< 1% pl phenos)	
1000	1014		<hr/> no sample	
			<hr/> Near vent sulfur cemented cinders	
	1066		Coarsely porphyritic b-a (multiple flows)	
	1103		20% phenos: pl (< 5mm) >> ol = cp (< 2mm)	
1100	1144		<hr/> Coarsely porph. b-a	
	1168		10% phenos: pl (< 6mm) >> ol (< 2mm)	

LITHOLOGIC LOG OF GEO N-3 CORE  
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(ft) DEPTH	UW SAMPLE	LITHOLOGY	DESCRIPTION	ALTERATION
1200				
	1241		V. fine gr. b-a	
	1281		Lt. brown air-fall (9')	
1300				
	1334		Mod. porph. b-a flows 5% phenos: pl (3mm) >> cl = cp Slightly oxidized granules	
	1378			
1400				
	1420			
	1449		Porph. b-a 20% phenos: pl (2mm) >> cp	
1500				
	1501			
	1525		Series of thin sparsely porph b-a flows	minor oxid. of vesicular portions
	1548		3% phenos: pl >> cp (<2mm)	
	1583			
	1597			

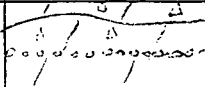

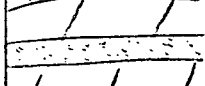

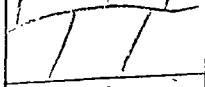



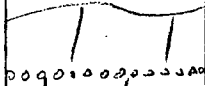
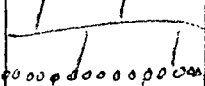
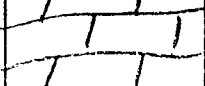
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(ft) DEPTH	UW SAMPLE	LITHOLOGY	DESCRIPTION	ALTERATION
1600			Scoria and vesicular blocks	
1700	1715		Sparsely porph b-a 2% phenos: pl > cp	
			Pink, lithic rich ashflow	
	1765		Mod. porph b-a	
1800	1790 1796		2' mod. welded pink ashflow b-a scoria	
			2' mod welded white ashflow	
			Cinders, scoria and blocks (b-a) near vent: sulfur cemented (cinder cone?)	
1900	1974		Coarsely porph andesite 20% phenos: pl (8mm) >> cp (2mm) lt gr. glassy granms	

LITHOLOGIC LOG OF GEO N-3 CORE  
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(F+) DEPTH	UW SAMPLE	LITHOLOGY	DESCRIPTION	ALTERATION
2000				
	2037			
			Coarsely porph. andesite	
2100	2100		20% phenos: pl (8m-) >> cp (2m-)	
	2122		lt. grey glassy groundmass	
	2175			
	2199			
2200	2214			
	2243		V. fine gr. b-a <1% phenos: pl >> ol+cp	mafic minerals oxidized
	2283		Coarsely porph. andesite (25% phenos)	
2300				
	2343			
	2382		V. fine gr b-a (lt. grey)	

LITHOLOGIC LOG OF GEO N-3 CORE  
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(ft) DEPTH	UW SAMPLE	LITHOLOGY	DESCRIPTION	ALTERATION
2400	2408		mod porph b-a 10% phenos: pl 7cp	
	2435		platy, fine gr. b-a	
	2451		densely welded ash flow	
	2487		V. fine gr platy b-a	platy fractures have oxide mineralization
2500	2529		mod to poorly welded pink ash flow	
	2574			
2600	2648		Series of fine gr b-a flows, diktytaxitic «1% phenos: pl» cp	thin (6") zones of white (calcitic?) alteration
	2683			
2700	2733			
	2773			
	2799			

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(ft) DEPTH	UW SAMPLE	LITHOLOGY	DESCRIPTION	ALTERATION
2800				
	2817		V. fine gr. b-a	notably less altered
	2844		<u>Orange (baked) soil</u>	
	2874			
2900				
	2924		V. fine gr. intergranular basalt flows	fractures filled with Ce + ?
3000	2999		<u>Thin (8') lithic-rich ash flow</u>	
	3024			
			V. fine gr. flow-banded basalt	green chloritic granules
	3070			
3100				
	3133		Intermed. comp welded ash flow	
	3143			
			<u>clast rich bottom</u>	
			<u>Grey-mottled, fine gr b-a</u>	
			<u>Pink ash</u>	
			Fine gr. b-a	



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(ft) DEPTH	UW SAMPLE	LITHOLOGY	DESCRIPTION	ALTERATION
3200	3205		V. fine gr b-a	
			Porph. b-a dike (8')	
	3240 3245		Obsidian	
			Platy, fine gr. b-a	Sulfur in porous portions
3300			Obsidian	
	3342		Platy b-a, v. fine gr.	
	3361		Porph b-a: 5% pl (5mm) phenos	
3400			Rhyolitic obsidian (sparse 13% pl)	
	3432		pumiceous zones	Pervasive sulfide mineralization in fractures
			V. fine gr basalt	
3500			ash flow (?)	
			V. fine gr basalt	

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(ft) DEPTH	UW SAMPLE	LITHOLOGY	DESCRIPTION	ALTERATION
3600	3611		V. fine gr. basalt	
	3642		Lt. pink silicic flows v. fine gr.	Cc + Qtz mineralized fractures
3700	3726			
	3743		Densely welded ashflow	
	3780		V. fine gr basalt	Vesicles filled (?Cc) Green chloritic granms
3800	3835			
	3876			
	3888		Brown fine gr. andesite?	Pervasive vesicle filling; sulfide mineralization
3900	3918		V. fine gr. basalt	
	3966			Green chloritic granms; Qtz veins
			<u>Pink dacite</u> Basalt	

Sept 21<sup>st</sup> 1987

S. W. Koehler Co.  
P.O. Box 41  
300 Junction Street  
Grangeville, ID 83530  
Attn: Steve Koehler

Dear Steve:

Enclosed please find 33 samples for thin sectioning.  
The thin sections should be numbered GEO-N-3 475.5  
through GEO-N-3 3892. Please do not stain.

475.5	2193
711.5	2307
772	2397
840	2539
924.5	2882
1061	2769
1214	2966.5
1281	3047
1300	3203
1332	3241
1434	3314.5
1537	3352
1586.5	3415
1705	3597
1775	3769.5
1962.5	3833.5
	3892

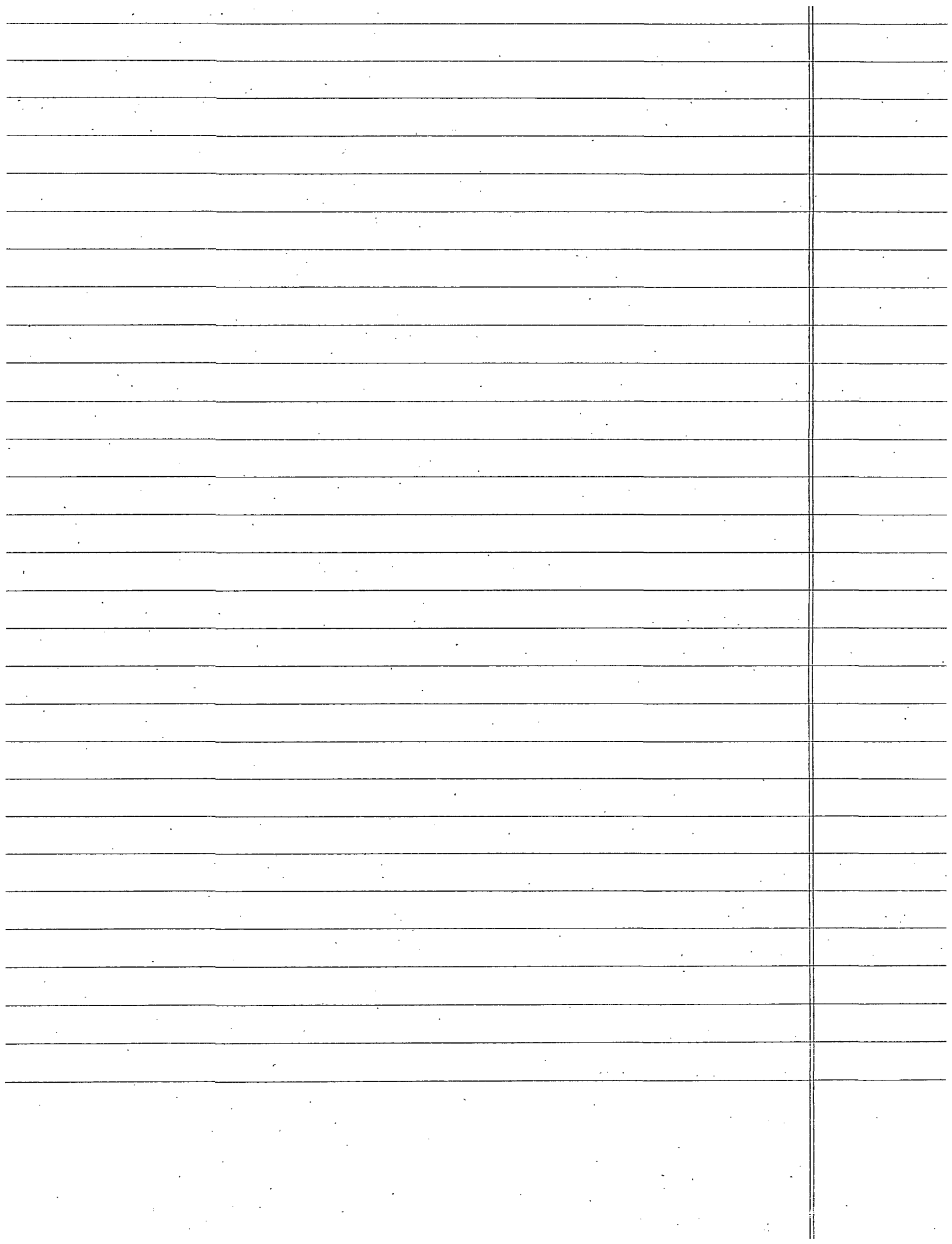
The P.O. number is 200-2329

Thank-you.

Sincerely,

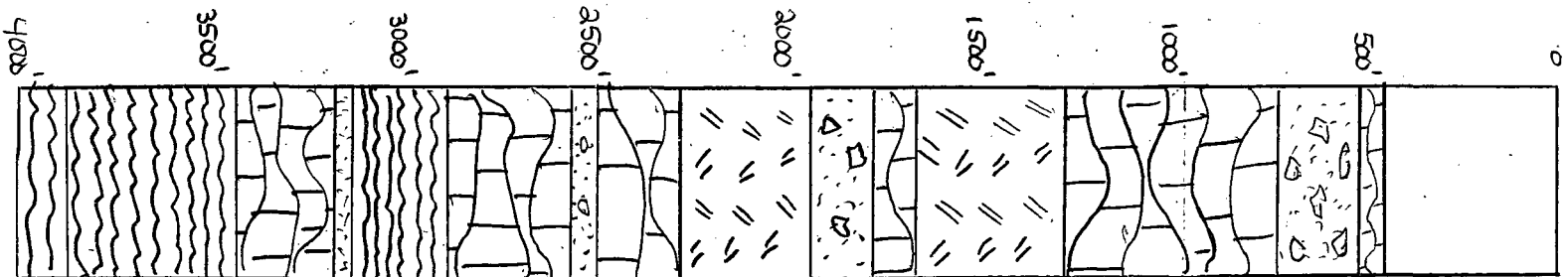
Phillip M. Wright.

Please send us a current price list





GEO - NEWBERRY N-3



453' - 512' Basaltic Andesite  
 512' - 705' Cinders ash & scoria

705' - 1276' Basaltic Andesite Flows intercalated with  
 pyroclastic & volcaniclastic deposits.

1276' - 1659' Andesite Flows intercalated with  
 Lahar/volcaniclastic deposits, ash  
 and scoria

1659' - 1780' Basaltic Andesite Flows intercalated  
 with volcaniclastic, cinder and ash  
 deposits

1780' - 1920' Agglomerates, ash and Scoria

1920' - 2283' Andesite

2283' - 2496' Basaltic Andesite  
 2496' - 2530' Capilli tufts

2530' - 2899' Basaltic Andesite

2899' - 3112' Basalt Flows intercalated with  
 agglomerates and volcaniclastic  
 deposits

3112' - 3160' Ash Flows and agglomerates

3160' - 3412' Basaltic Andesite with intercalated  
 volcaniclastic, tufts and agglomerates

3412' - 3877' Basalt Flows with intercalated  
 volcaniclastic, ash flow deposits

3877' - 4002' TD Basalt

