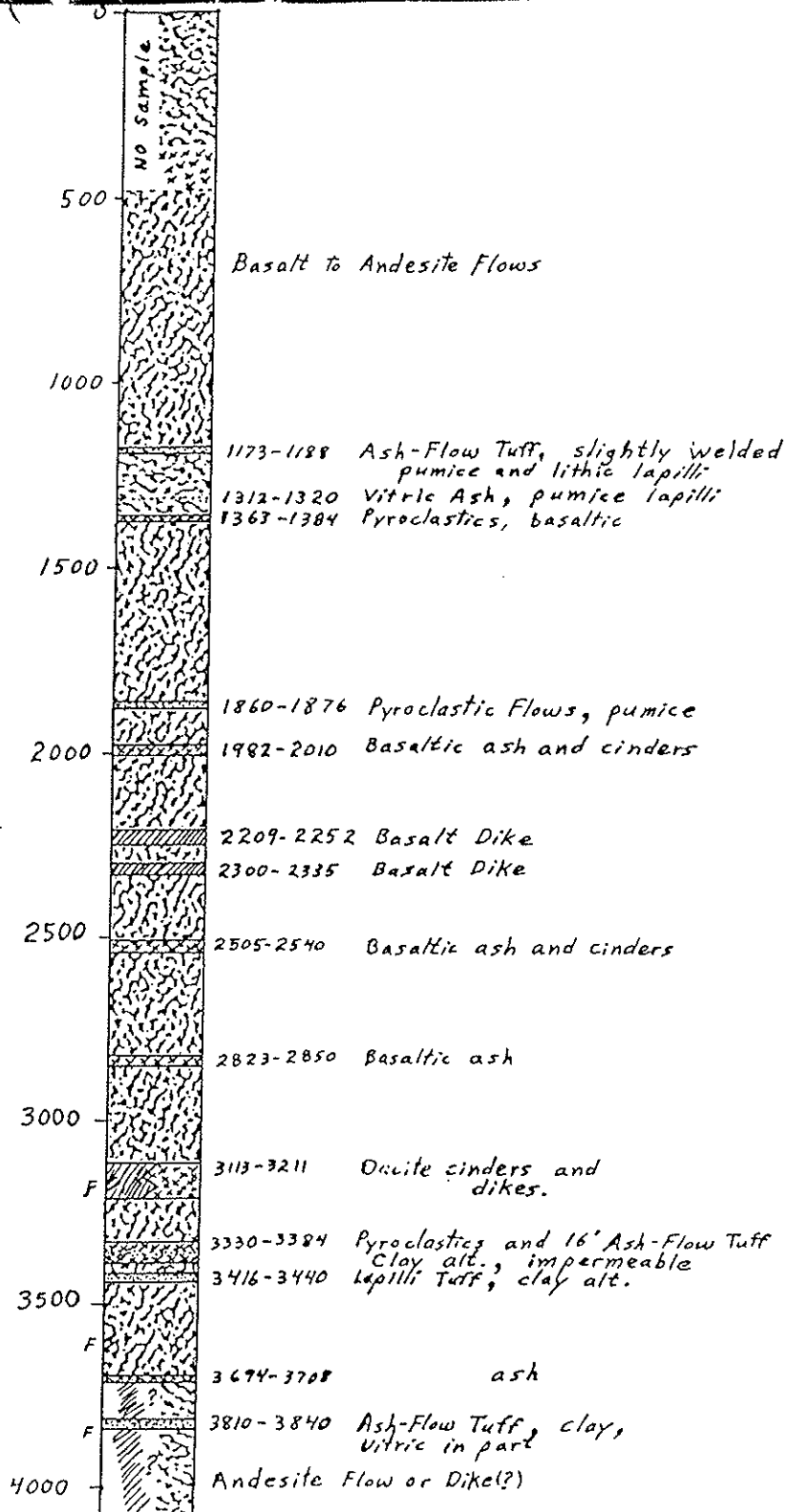


GEO N-1 CORE HOLE  
LITHOLOGIC LOG



**GEO N-1 HQ CORE HOLE  
LITHOLOGIC LOG**

**Explanation**

	<b>Brecciated or Fragmented Zone</b>		<b>Contact</b>
	<b>Basalt or Basaltic Andesite</b>		<b>Fault</b>
	<b>Andesite</b>		<b>Intrusive</b>
	<b>Dacite or Rhyodacite</b>		<b>Tuff or Ash &amp; Cinders</b>
	<b>No Sample</b>		

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DEPT. OF GEOLOGY  
& MINERAL INDUSTRY

LIST OF ABBREVIATIONS FOR LITHOLOGIC DESCRIPTIONS

abd	abundant	frag	fragment	phen	phenocryst
ang	angular	gr	grain	Plag	Plagioclase
anhed	anhedral	grds	grades	pos	possible
approx	approximate(ly)	grn(sh)	green(ish)	prt(ly)	part, partly
av	average	grnd	groundmass	Px	Pyroxene
bel	below	gry(sh)	grey(ish)	Qtz	Quartz
bl(sh)	blue(bluish)	horiz	horizontal	rd(sh)	red, reddish
blk(sh)	black(ish)	incr	increase(d)	seq	sequence
bnd	boundary	incorp	incorporated	slks	slickensides
brec	breccia	indist	indistinct	sps	sparse
brn(sh)	brown(ish)	lith	lithic	subang	subangular
chg	change	loc	local	subhd	subhedral
col	color	lt	light	subhoriz	subhorizontal
com	common	Mag	Magnetite	sl	slightly
cont	continues	Mat	Matrix	Slt	Silt
				v	very
dia	diameter	micphen	microphenocryst	vert	vertical
dissem	disseminated	Min	Mineral	ves	vesicles, vesicular
dk	dark	med	medium		
elong	elongated	mod	moderate	xl	crystal
euhd	euhedral	occ	occasional	xln	crystalline
fn,fnly	fine, finely	Ol	Olivine	yel	yellow
Fe	Iron	olv	olive		
Feldsp	Feldspar	or	orange		
fr	from	Ox	Oxide		
		oxd	oxidized		

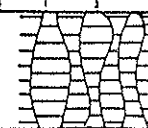
COLOR CORRELATION OF LITHOLOGIC DESCRIPTIONS WITH  
GSA STANDARD ROCK-COLOR CHART

<u>COLOR NAME</u>	<u>CHART REFERENCE NUMBER</u>
black	N1
brownish black	5YR 2/1
brownish grey	5YR 4/1
dark greenish grey	5GR 4/1
dark reddish brown	10R 3/4
dark grey	N3
dusky blue	5PB 3/2
dusky red	5R 3/4
greenish grey	5GY 6/1
greyish black	N2
greyish brown	5YR 3/2
greyish olive	10Y 4/2
greyish red	10R 4/2
light bluish grey	5B 7/1
light brown	5YR 5/6
light brownish grey	5YR 6/1
light grey	N7
light olive brown	5Y 5/6
light olive grey	5GY 6/1
medium light grey	N6
medium grey	N5
medium dark grey	N4
moderate brown	5YR 4/4
moderate orange pink	10R 7/4
moderate red	5R 4/6
moderate reddish brown	10R 4/6
olive black	5Y 2/1
pale blue	5PB 7/2
pale blue green	5BG 7/2
pale red	5R 6/2
very dark red	5R 2/6
yellowish grey	5Y 6/1

CORE LOG

PROJECT Newberry, Oregon HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S. R 12E.

COMPANY GEO Operator Corporation LOGGED BY Michael Johnson & Eugene V. Ciancanelli DATE 9/85-11/85 GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
1	100		410					
2	100		420					
			430					
			440					
			450					
			460					
			470					
			480		487'-564': <u>BASALTIC ANDESITE</u> , olv blk to med dk grey with lt brnsh-gry mottling. Rare anh-d-subhd Ol phen (< 1mm). Com to abd dissem Mag. Ves fr 562'-564'.			Core recovery begins at 487'
			490			50° / 40°	493.5' and 497': Clay, limonite in micro fractures.	
			500					

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE CorSec. 25 T 22S.R 12E.

COMPANY GEOOC LOGGED BY Michael Johnson & Eugene V. Ciaucanelli DATE 9/85-11/85 GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
2	100							
3	100		510					
4	100		520		Co1 chg bel 521', ranges fr med. lt grey to dk grey, cont to base of flow.	185° 180° 60° 50°		
5	100		530					
6	100		540					
7	0		550			0°		547'-550' driller notes cavity.
8	83		560			75° 60° 15°-20° 60°		
9	96	<100° at 570'	570		564'-601.5': BASALTIC ANDESITE (?), med lt grey to lt br grey to med. dk. gry, fnly xln to glassy. Rare subhd Ol phen (< 1mm), fnly dissem Mag. Oxd dk rd-brn fr 564'-579'.			
10	100		580		Ves throughout (< 0.5 mm diam.). Planar flow structure dips 10-25°.			
11	100		590					
12	100		600					

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S.R 12E.

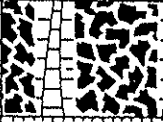
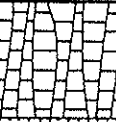





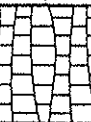

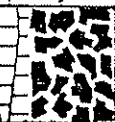
COMPANY GE00C LOGGED BY Michael Johnson & Eugene V. Ciancanelli DATE 9/85-11/85 GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
12	100/83				601.5'-662': BASALTIC ANDESITE, dk gry occ Ol phen (∞ lmm), rare Plag phen in v fn xln grnd, fn dissem Mag; ves fr	70°/60° 90°/75°		
13	75 92 75 100/100		610		601.5'-614'. Planar flow structure dips 20-30°.			
14	100		620					
15	95		630					
16	100		640					
17	100		650					
18	57		660					
19	100 67 51	<100° at 668'	670		662'-825': BASALTIC ANDESITE, dk gry to med dk gry. Occ Ol phen (∞ lmm) and rare Plag micphen. in v. fn xln to glassy grnd. Ves, prt oxd fr 662'-677'.	20°/50° 40°/70° 170°/50° 35°/45° 60°/50° 40°		
20	100 69		680		Intraflow breccia fr 685'-686', oxd gry-rd to dk rd-brn; ves.			
21	85 82		690		Fault at 683', Fe Ox, silks	35°/20°		
22	75 88		700		Intraflow breccia fr 691'-703', oxd gry-rd to dk rd-brn; ves.			

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S R 12E.

COMPANY GE00C LOGGED BY Michael Johnson & Eugene V. Ciancanelli DATE \_\_\_\_\_ GR. ELEV. 5840'

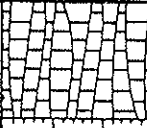









BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRIILLING INFORMATION
22								
23	100		710		Intraflow breccia fr 707'-716', oxd gry-rd to dk rd-brn; ves.	60° /		
24	86 100		720					
25	100		730			25° / 10° /		
26	100		740		Intraflow breccia fr 741'-749', oxd gry-rd to dk rd-brn; ves.			
27	0 100 93		750					
28	83		760		754'-784': ves zone, brn-gry, ves elong, 0.5 cm. Flow banding dips ~30°	20° / 35° / 20° / 70° /		
29	100		770					
30	100	<100° at 779'	780					
31	92 55		790					
32	43		800		Intraflow breccia fr 792'-800', oxd dk rd-brn; ves.	50° /		792'-799': driller reports 3' core ground up.



CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S.R 12E.

COMPANY GEOSC LOGGED BY Michael Johnson & Eugene V. Ciancaneli DATE \_\_\_\_\_ GR. ELEV. 5840'

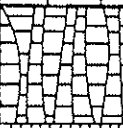
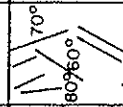
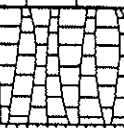
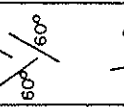
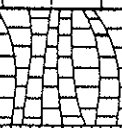
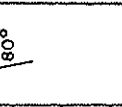
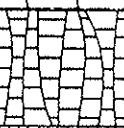
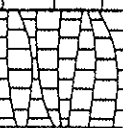


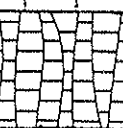


BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
32	96							
33	100		810					
	100							
34	0		820		Basal breccia (?) fr 821'-825', prt. oxd.			
	33							
	80		830		825'-856': BASALTIC ANDESITE (?), med dk gry; rare OI (< 1mm)			
35	94		840		and Plag micphen; vfn xln to glassy grnd. Crude flow banding dips 0-25°.			
36	93		850		ves fr 854'-856'.			
37	70		860		856'-963': BASALTIC ANDESITE, med dk gry, abd subhd to euhd			
	70				Plag phen (1-5 mm), abd subhd OI phen (1mm); dissem Mag;			
38	30	<100° at 870'	870		vf xln to glassy grnd.			
39	100		880		Flow top breccia fr 856'-883', oxd.			
40	100		890					
41	66		900					
	100							



CORE LOG

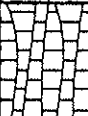



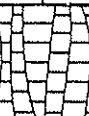





PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE CorSec. 25 T 22SR 12E.

COMPANY GEQQC LOGGED BY Michael Johnson & Eugene V. Ciancanelli DATE \_\_\_\_\_ GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
41	100							
42	100		910					
43	100		920					
44	100		930					
45	72		940		Ves fr 937'-963'; oxd gry-rd to brn-gry			
46	57		950					
47	100		960		6" ashy soil zone (?) at 963'			
48	30		970		963'-1172': BASALT, dk gry to gry-blk, abd subhd to euhd			
49	100		980		Plag phen (1-5mm), abd subhd to euhd O1 phen (1-2mm). Occ glomeroporphyritic O1 + Plag. Dissem Mag throughout.		979'-1046' Fe Ox on fracture surfaces	
50	89	<100°	990		Flow top breccia fr 963'-975', oxd.			
50	55	at	999.6'					
50	60	999.6'	1000					

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S. R 12E.

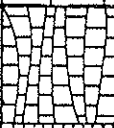
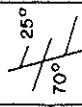
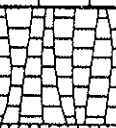
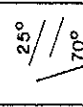
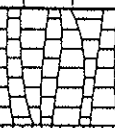
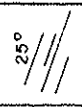
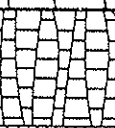
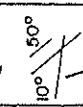
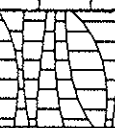
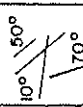
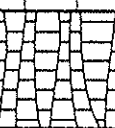
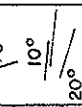

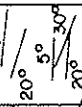
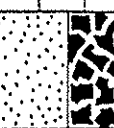
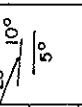



COMPANY GEOCC LOGGED BY Michael Johnson & Eugene V. Ciancanelli DATE \_\_\_\_\_ GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
51	63		1010		fnly ves fr 979'-1046'; prt oxd	55°/70° 80°/20° 45°/35° 70°/25° 60°/15° 60°/80° 50°/60° 40°/25°		
52	83		1020					
53	50		1030					
54	72		1040		Col chg bel 1046' to lt brn-gry	70°/20° 50°/40° 75°/75°		
55	95		1050					
56	95		1060					
57	100		1070					
58	100		1080			80°/45°		
59	100		1090		Flow banding fr 1097'-1117', 1mm thick, 2-5 cm apart, dip 50°	30°/50°		
60	100		1100					

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T22S. R12E.

COMPANY GEOOC LOGGED BY Michael Johnson & Eugene V. Ciancanelli DATE \_\_\_\_\_ GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
60	98							
61	98		1110					
62	96		1120					
63	100		1130					
64	100		1140					
65	98		1150		1172'-1188': LITHIC CRYSTAL TUFF, rd-brn to olv blk to brn-blk with abd lith frags (andesite?) (up to 2 cm) and abd broken subhd to anhld Plag xls (1-2 mm). Mat grades from olv blk glass to clay. Unit poorly sorted.			
66	100		1160					
67	93		1170					
68	82		1180		Slightly welded zone with black glass fiamme fr 1172.2'-1184', lt brn to mod brn Fiamme are 1-2 mm thick, up to 3 cm long, compacted horiz.			
69	83		1190					
70	64		1200		1188'-1248': BASALTIC ANDESITE, Med. gry with mod rd to			
71	79							

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S, R 12E.

COMPANY GEQOC LOGGED BY Michael Johnson & Eugene V. Ciancanelli DATE \_\_\_\_\_ GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
71	100	<100° at 1201'	1210		v dk rd mottling, sps Plag phen, rare Ol phen. Flow top breccia fr 1188'-1201'.		Fe Ox coating fractures	
72	88		1220		Bel 1208', com anhd Plag phen (1-3 mm).			
73	100		1230		fonly ves (ves < 1mm dia)			
74	84		1240					
75	90		1250		Unit grades to dusky rd cinders fr 1244'-1248'.			
76	45 70 45		1260		1248'-1294': BASALTIC ANDESITE, med dk gry, sps Ol, Plag, Px phen. Ol, Px disappear with depth, Plag becomes com. Unit is fonly ves to nonves.			
77	40 56		1270					
78	100		1280		Flow top brec fr 1248'-1261'.			
79	65		1290		1294'-1312': NO SAMPLE			
80	22		1300					1301'-1311' Rods washed in without rotation.

PROJECT Newberry, OR

HOLE NUMBER N-1

LOCATION 3600'W. & 2750'N. of SECOR. Sec. 25 T 22S. R 12E.

COMPANY GEOC

LOGGED BY Michael Johnson & Eugene Ciancanelli

DATE


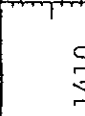
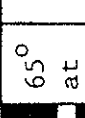


GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
80	0		1310					
81	56	< 100 at 1325	1320		1312'-1318': ASH, olv blk, fn-med gry sand-size, glassy fragments, grds downward to mod brn silt to clay size particles (soil horizon?).			1318'-1319.5' driller reports washout - no sample
82	79		1330		1318'-1319.5': NO SAMPLE			
83	94		1340		1319.5'-1363': BASALTIC ANDESITE, med dk gry, sps subhd Ol phen, rare anhhd Plag phen (2 mm), both become com with depth.			
84	100		1350		Flow top brec fr 1319.5'-1331'.			
85	95		1360		Loc ves (up to 5 mm dia) fr 1319.5'-1355', com ves bel 1355'			
85	9		1370		1363'-1384': LITHIC TUFE, lt brn to mod brn, lithics up to 7 cm long (andesite?) in a clay to Slt-size ashy Mat.		Limonite fracture coatings	
86	75		1380					
87	100		1390		1384'-1424': BASALTIC ANDESITE, med gry to med dk gry, sps Plag phen (1-2 mm) and rare Ol phen.		Fe Ox fracture coatings	
88	63		1400					
88	70							

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'w. & 2750'N. of SE Cor. Sec. 25 T22S. R 12E.

COMPANY GEOSC LOGGED BY Michael Johnson & Eugen V. Ciancanelli DATE \_\_\_\_\_ GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
88	100	65°			Intraflow(?) breccia fr 1393'-1401' and 1403'-1405'; ves, oxid	20°	Fe Ox	
89	65	at 1408'	1410		gry-rd to dusky rd.	70° 5°	mottling and webbing deuteritic	
90	100		1420			50° 25°		
91	76		1430		1424'-1511': ANDESITE, brn-gry to med gry, aphyric to rare	35°		
92	50		1440		Plag and Ol phen. Flow top breccia fr 1424'-1430'.			
93	100		1450		Ves fr 1430'-1439'.			
94	70		1460		Intraflow breccia fr 1441'-1450'.	30°		
95	58		1470		Ves (1-5 mm dia) fr 1475'-1481'.	60° 50° 30°		
96	48		1480			50° 50°		
97	100		1490		Intraflow breccia fr 1494'-1496'; ves, oxid dk red brn	70° 30° 40°	Fe Ox coats fracture surfaces.	
98	89		1500					
99	83							
100	84							

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T22S. R 12E.

COMPANY GEOSC LOGGED BY Michael Johnson & Eugene V. Ciancanelli DATE GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
98	84					50° 20° 30°		
99	79	54° at 1512	1510			50°	Minor Fe Ox coats fracture surfaces	
100	82		1520		1511'-1544': BASALT, dk gry, mainly aphyric, with rare subhd O1 phen (1-2 mm dia). Flow top breccia fr 1511'-1521'; ves, oxd dk rd-brn.	20° 50° 60° 70° 60°		
101	93		1530					
102	95		1540					
103	77		1550		1544'-1677': BASALTIC ANDESITE, med gry to gry-blk, abd euhd to anhedral Plag phen. (up to 5 mm), com yel-gr O1 phen.			
104	70		1560					
105	44		1570					
106	61		1580			10° 30° 20° 60° 55° 70° 80° 50°		
107	86		1590		Bel 1594', Plag phen decline.		Abd Fe Ox coats fracture surfaces	
108	84		1600					
109	100							



PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S, R 12E.

COMPANY GEOSC LOGGED BY Michael C. Hagood DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
109	100	54° at 1612'	1610				1600'-1642': Abd or Fe Ox coats fracture surfaces	
110	76		1620					
111	98		1630		Local phen-rich zone fr 1625'-1626': abd Plag phen (up to 2mm).			
112	97		1640		Bel 1626', aphyric, rare Ol phen.			
113	80		1650		Ves fr 1645'-1648', elong horiz.		1642'-1788': Com Fe Ox coats ffac- ture surfaces	
114	83		1660		Ves fr 1660'-1672', elong, horiz.			
115	81		1670					
116	67		1680		rd-br ashy soil horizon (?) fr 1677'-1678'.			
117	43		1690		1678'-1732': BASALT, dk gry, aphyric, slightly to com. ves, flow banding com subhoriz; flow top brec fr 1678'-1682'.			
118	22		1700					

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S. R 12E.

COMPANY GEOOC LOGGED BY Michael C. Hagood DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
119	53 91	55° at 1712'	1710		Intraflow breccia fr 1699'-1706'	70° 40° 20°	Or Fe Ox stains on flow tops and fracture surfaces	
120	79 69		1720			30° 30°		
121	81		1730		Basal breccia fr 1727'-1730'			
122	79 29 8 20 31 96 78		1740 1750		1732'-1815': <u>BASALT</u> , grnsh-blk to dk gry, sps Plag phen (up to 2mm), rare Ol phen (< 1mm). Flow top breccia fr 1732'-1749'. Ves sps to com, up to 2 cm dia.	45° 30° 30°		
123	24 94		1760 1770			30° 70° 60° 30°	Orange Fe - Ox stains on fracture surfaces; greenish-gray to yellow clay along fracture surfaces	
124	88		1780		V fn gr to glassy fr 1782'-1784'	65° 45° 25° 60° 25° 10° 20°		
125	100		1790					
126	81		1800					
127	98							

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T.22S. R.12E.

COMPANY GE00C LOGGED BY Michael C. Hagood DATE GR. ELEV.

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
128	98						1800'-1860':	Fluid level at 1000'
129	84 100	54° at 1817'	1810		Basal brec fr 1807'-1811'.	60°	1800'-1860':	Fluid level at 1000'
130	77 93		1820		1815'-1860': BASALT, dk gry, sps Plag phen (< 3mm), rare Ol phen; fn gr grnd, fnly ves; flow banding subhoriz. Flow top brec fr 1815'-1822'.	60° 80°	1800'-1860':	Fluid level at 1000'
131	100		1830			20°		
132	80 83 63 80		1840		Intraflow brec fr 1832'-1840'.	40°		
133	78 65		1850		Intraflow brec fr 1842'-1857'.	45°		
134	82		1860		1860'-1876': LITHIC TUFF, Yel-gry to lt olv gry clay fragments up to 2 cm length with lesser basalt, cinder and pumice clasts, in clay mat. Fng upward of clast size noted. Base of unit in contact with intrusive: glassy, med gry, fr 1876'-1877', intrudes at angle of 50°, abd Plag & Ol phen.	80° 40° 30° 50° 70° 10° 30°		
135	96 73		1870					
136	63 56		1880		1877'-1915': BASALT, med dk gry, com Plag & Ol phen; flow top brec fr 1877'-1887'; Intraflow brec fr 1892'-1895'.	85°		
137	100		1890					
138	87		1900					

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE CorSec. 25 T 22S, R 12E.

COMPANY GEOSC LOGGED BY Michael C. Hagood DATE GR. ELEV.

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
138	87	55° at 1900'						
139	75		1910		Basal brec fr 1905'-1915', oxd.			
140	186		1920		1915'-1919': LITHIC TUFF, clasts of pumice & cinder up to 1 cm in clay mat; fng upward seq noted; bake zone fr 1915'-1918', oxd mod rdsh-br to lt br.			
141	65		1930					
142	76		1940		1919'-1982': BASALT, med dk gry to dk gry, com Plag & Ol phen (< 1mm). Ves (1mm-3cm), elong, subhoriz. to 45°, fr 1919'-1969'.			Fluid leve fluctuates between 1200' and 1800'.
143	69 42 63 72		1950					
144	83 64		1960		Intraflow brec fr 1943'-1960'			
145	93		1970					
146	92		1980		1982'-2010': BASALTIC ASH & CINDERS, v dk rd to mod rd ash and sand-size part fr 1982'-1987', mainly alt. to clay, oxd, fng upward seq noted. Grades downward to cinder and basalt clasts (up to 1 cm in length) in a clay matrix.			
147	88		1990					
148	85		2000					

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S. R 12E.

COMPANY GE00C LOGGED BY Michael C. Hagood DATE GR. ELEV.

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
148	85	54° at 2002'						
149	87		2010					
150	91		2020		2010'-2162': BASALT, med dk gry, sps Plag & Ol phen (< 1mm in length), com fractures dip 35-70°, spaced 10-50 cm apart.		2016'-2020': Abd or Fe Ox staining on fracture surfaces.	
151	92		2030					
152	94		2040					
153	96		2050		Intrusives fr 2039'-2044' and 2063'-2071' (?): basalt (?), blk, aphyric, with glassy chill margins up to 4mm wide.			
154	83		2060		Intrusives appear to be mainly along fractures, which dip 35°-70°. Ves trains, subvert, noted.			Fluid level at 1700'
155	93		2070					
156	100		2080					
157	100		2090					
158	98		2100					
159	97		2100					








PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T22S, R 12E.

COMPANY GE00C LOGGED BY Michael C. Hagoood DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
159	97	55° at 2108'	2110		Intrusives fr 2103'-2105', 2122'-2126', 2142'-2145', 2179'-2182', 2189'-2190': basalt (?), blk, aphyric, chill margins (up to 2mm wide) noted, contacts dip 60°-70°, ves up to 3mm dia align 60°-70°.	60° 30° 40° 20° 45° 70° 75°	Grnsh-yel Fe-Ox + Clay(?) fills fractures.	Fluid level at 1400'
160	100		2120					
161	100		2130					
162	100		2140					
163	100		2150					
164	100		2160		2162'-2179': TUFF: oxd ash (clay-altered) grading to clastics (basalt ? frags) welded in a black glass matrix (fr 2167'-2169'); oxd ash (baked zone) fr 2169'-2179'. Black glass fiamme noted in interval fr 2167'-2169'.	60° 30° 60° 25° 20° 80° 20° 60°	Yel-or Fe Ox ony fracture surfaces	
165	63		2170					
166	96		2180					
167	86		2190		Basalt, oxidized from 2190'-2209', pos. fr underlying intrusive.		Yel-or Fe-Ox + clay (?) in frac- tures	
168	93		2200					
169	98							
170	100							

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T. 22S. R. 12E.

COMPANY GEOSC LOGGED BY Michael Johnson DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
170	100							
171	100	<100° at 2207'	2210			20° 60°	Or-ye.l Fe-Ox + clay (?) lines fractures	Fluid level fluctuates fr 1400' 1700'
172	100		2220		Intrusive(?) fr 2209'-2252' (?), grysh-rd, sps to com anhd Plag phen (up to 2mm); chill margin occurs at top, but not detected at lower contact. 4 cm thick black aphyric basalt(?) intrusive noted at lower contact.	70° 30° 60° 30° 60°		
173	100		2230					
174	100		2240					
175	100		2250					
176	94		2252		2252'-2300': BASALTIC ANDESITE(?), grysh-rd to med gry, v abd anhd Plag phen up to 4mm in length. Abd ves fr 2252'-2267' up to 2cm dia.	70°		
177	86		2260					
178	96		2270				Ves lined with botryoidal red Fe-Ox	
179	98		2280		Intrusives fr 2269'-2270' and 2278'-2279', basalt(?) black, aphyric.	60°		
180	58		2290					
181	93		2300		Basal brec fr 2288'-2295'.	60°		
182	82							

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600' W. & 2750' N. of SE Cor. Sec. 25 T. 22S. R. 12E.

COMPANY GEOSC LOGGED BY Michael Johnson & B. Sibbett DATE GR. ELEV.

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
181	82	<100° at 2308'	2310		Intrusives, fr 2300'-2335' and 2351'-2358': BASALTIC ANDESITE (?) , med dk gry, fn gr, sps Plag phen, rare Ol phen, fnly dissem Mag; upper contact dips 85°; lower contact shows chill margin. Intrusive contact at 2351' dips 30°, and contact at 2358' dips 60°.	30° 53° 10° 40° 60°	Clear, rounded flat min in fractures of intrusives. Fe-Ox stains fracture surfaces.	Fluid level at 1600'
182	100		2320					
183	100		2330					
184	97		2340					
185	94		2350		2335'-2421': ANDESITE(?), med gry, sps Plag phen (up to 2mm length), sps Ol phen, abd fnly dissem Mag. Ol incr with depth, altered to iddingsite(?). With incr. depth, xl boundaries become indist; appear to coarsen; unit takes on grnsh-blk tint. Flow banding irreg to vert. Fractures parallel to flow banding.	30° 30° 30° 10° 60° 30°	Green, glassy min at basal contact of Hike (2355')	
186	98		2360					
187	100		2370					
188	100		2380					
189	96		2390					
190	95		2400					
191	100	<100° at 2398'						
192	95							



CORE LOG

PROJECT Newberry, OR

HOLE NUMBER N-1











LOCATION 3600'W. & 2750'N. of SE CorSec. 25 T.22S. R.12E.

COMPANY GEOSC

LOGGED BY Michael Johnson & B. Sibbett

DATE

GR. ELEV.

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
192	100		2410			40° 60° 20°		
193	100		2420					
194	96		2430		2421'-2501': BASALT, dk gry, sps Plag phen, fn mafics (magnetite?) oxd to hematite(?). Unit is fn gr. but coarsens with depth. Phen have indist bnd, Plag up to 3mm in length. Flow top brecc mixed with ash, oxd, fr 2421'-2431'.	30° 80°	CaCO <sub>3</sub> (?) spars in vugs; lesser grnsh-br' clay(?) in vugs.	Fluid level at 1600'
195	46		2440			20°		
196	92		2450			70°		
197	94		2460			30° 45° 40°		
198	95		2470			30° 20°		
199	100		2480			30°		
200	97		2490			30°		
201	100		2500			30°		
202	100							
203	100							

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T.22S. R.12E.

COMPANY GE00C LOGGED BY Michael Johnson DATE \_\_\_\_\_ GR. ELEV. 5840'

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACURES	ALTERATION	DRILLING INFORMATION
203	100				2501'-2541': ASH & CINDERS, grysh-rd to mod rdsh-br fr	30°	rare white spherical to flat min on fracture surfaces	Fluid level at 1600'
204	93	<100° at 2502'	2510		2501'-2516', grades to med gry beneath 2516'. Cinder frags up to 5 cm dia in an ash mat.			
205	100		2520					
206	96		2530					
207	100		2540					
208	98		2550		2541'-2616': BASALTIC ANDESITE, med gry, rare anhnd Plag phen.		2551': dusky blue powder on fracture surfaces.	
209	100		2560				Fe-Ox on fracture surfaces.	
210	100		2570			75° 30°		
211	100		2580			10°		
212	97		2590		Ves zone fr 2589'-2599'	70°	2616': clear 'cubic' min fills vugs,	
213	100		2600		Brec fr 2589'-2593'		H-3	

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S. R 12E.

COMPANY GEOOC LOGGED BY Michael Johnson DATE GR. ELEV.

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
214	100	<100° at 2602'	2610		Basal brec, ves, fr 2612'-2616'	20°/60°	Clear 'cubic' min in vugs, H-3.	
215	83		2620		2616'-2625': ASH & CINDERS, mod br to grysh rd, ash grades downward to cinders in ash mat.	10°	Chlorite(?) on fracture surfaces	Fluid level fluctuates fr 1600' - 1800'.
216	96		2630					
217	98		2640		2625'-2651': BASALTIC ANDESITE(?), med gry, aphyric.	10°		
218	98		2650				2668'-2673': lt blsh-gry to pale bl powder lines vesicles.	
219	100		2660		2651'-2677': BASALTIC ANDESITE(?), med dk gry, sps to com Plag phen, sps Ol phen, Mod rd ash & cinders fr 2651'-2654'.	10°/30°/50°		
220	90		2670		Flow top brec fr 2654'-2667', ves, oxd.	30°		
221	92		2680		2677'-2689': ASH & CINDERS, basaltic(?) cinders and basalt fragments in lt olv br to grysh rd clay to sand size mat.	70°/80°/15°/85°	Clear to white min (H-3) fills vugs.	
222	92		2690					
223	100		2700					
224	98							Green clay(?) fills fractures.

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600' W. & 2750' N. of SE Cor., Sec. 25 T 22S. R 12E.





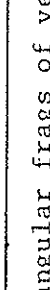
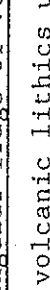
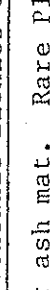
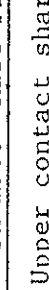
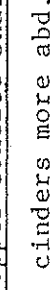

COMPANY GE00C LOGGED BY Michael Johnson DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
225	98				2689'-2725': BASALTIC ANDESITE(?), med dk gry, sps to com		Pale green botryoidal min in fractures (H~4)	Fluid level at 1600'
226	93	<60° at 2712'	2710		Plag phen, sps O1 phen, rare Px phen. Flow banding horiz to subhoriz. Basal brec fr 2719'-2725'.	30° 10° 70°		
227	100		2720			15° 60°		
228	96		2730		2725'-2731': TUFF, mod br to lt br, coarse sand-size volcanic frags and lesser Plag, Qtz(?) and Mafic phen in clay mat; appears to become finer downward; color banding coincides with bedding; color bands are 2-5 cm thick; Ves basalt frags up to 7 cm dia are incorp within unit. Base of unit has numerous basalt clasts incorp (up to 4 cm dia). Beds dip 0-15°.	10° 40° 50°		
229	88		2740			10° 70°	White min, H~5, fills smaller vesicles	
230	78		2750					
231	67		2760		2731'-2823': BASALTIC ANDESITE(?), med dk gry, com Plag phen, sps to com O1 phen, sps glomeroporphyrocrysts of Plag & O1. Unit is fn-gr but becomes more coarsely xln with depth. Minor mafics (Mag?) oxd (to Hematite?) rd. Gr bnd indist with depth indist flow banding subhoriz.			
232	91		2770					
233	100		2780					
234	96		2790		Flow top brec fr 2731'-2761', rubble, ves.			
235	100		2800					

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T22S. R12E.

COMPANY GEOSC LOGGED BY Michael Johnson DATE GR. ELEV.

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
235								
236	100		2810			20°	green clay(?) on fracture surfaces	
237	98	<60° at 2820'	2820					
238	97		2830		2823'-2850': ASH & CINDERS, angular frags of ves basalt(?) up to 5 cm dia, tan to lt gry volcanic lithics up to 1 cm dia, in a mod rdsh-br to dk rdsh-br ash mat. Rare Plag xls also occur surrounded by ash mat. Upper contact sharp. Col becomes dk rdsh br with depth, cinders more abd, mat less abd.			
239	93		2840			30°		
240	82		2850			50°		Fluid level at 1600'
241	100		2860		2850'-2880.5': BASALTIC ANDESITE(?), med dk gry, com Plag phen, sps ol phen	45°		
242	96		2870		Ves fr 2861'-2878', elong ves up to 3 cm long.	60°	2888': green translucent. Min	
243	94		2880			70°	rare cream to pale yel botryoidal. Min in ves, 11-3. rare clear 'cubic' min in ves	
244	98	64° at 2890'	2890		2880.5'-2890': TUFF; mod rdsh-br to 2888', grds to mod or-pink below 2888'; mainly ash with sps glassy to ves. volcanic frags, angular, com 1cm, but up to 5 cm dia. Appears			
245	98		2900					

CORE LOG

















PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T22S. R 12E.

COMPANY GEOCC LOGGED BY Michael Johnson, William J. Dansart DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACHTURES	ALTERATION	DRILLING INFORMATION
246					to be weakly bedded			
247	89		2910					
248	100		2920		2890'-2901': ASH & CINDERS, dk gry cinders in dk gry ash mat.	50° 50°		
249	93		2930		2901'-2944': BASALTIC ANDESITE(?), med dk gry, abd anhd Plag phen (~2mm dia), rare to sps Ol and Px(?) phen, Tr dissem Mag. Lower contact abrupt; chill margin?	60°		Fluid level at 1600'
250	86		2940					
251	93		2950		2944'-2956': ASH & CINDERS, rd-brn ash and ves rd-brn to med gry cinders (up to 20 cm long).		2943.5': Poss K-spar & secondary biotite in hairline fracture.	
252	81		2960					
253	57		2970		2956'-3002': BASALT(?), dk gry, sps anhd Plag phen (~2mm dia), abd ves fr 2956'-2983'.			
254	61		2980		Brec fr 2956'-2969'.	40°		
255	81		2990					
256	92	< 60° at 2996'	3000					
257	97							

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T22S. R 12E.

COMPANY GEOOC LOGGED BY William J. Dansart DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
257	97				3002'-3069': BASALTIC ANDESITE(?), gry-brn to dk gry, abd		Calcite fills	
258	97		3010		subhd to anhld Plag phen (~3mm dia).		vugs, frac-	
259	97		3020		Oxd, ves fr 3002'-3012'.		tures.	
260	98		3030					Fluid level at 1600'
261	95		3040					
262	100		3050					
263	92		3060		3069'-3114': ANDESITE(?), med gry, com subhd to anhld Plag			
264	97		3070		phen (~3mm long), sps ol phen.			
265	92		3080		Oxd, ves fr 3069'-3073'.		3077': cream-colored botryoidal min fills vugs Chlorite(?) com fills fractures	
266	100	57° at 3098'	3090		Ves fr 3073'-3105'.			
267	100		3100					
268	100							

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S. R 12E.

COMPANY GEOCC LOGGED BY William J. Dansart & Michael Johnson DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
268	100		3110					
269	100							
	100							
270	98		3120		3114'-3118': LAPILLI TUFF, grnsh-gry, grades downward to med brn; upper portion contains subangular andesite(?)	50°		
271	98		3130		clasts up to 5 cm long. Unit is horiz. bedded fr 3116'-3118'. Coarsening upward sequence noted.	40°		Green clay(?) Fluid in fractures, level at 1600' vugs.
272	98		3140		3118'-3211': ASH & CINDERS, mod rdsh-brn to dk rdsh-brn to dk gry cinders up to 25 cm dia in an ash matrix. Unit was	25° 35°		
273	98		3150		invaded by dikes which appear to have been subsequently brecciated. Bel 3124', numerous brec frags of dike material occur, cont to 3211'.	50° 60°	Chlorite(?) fills fractures.	
274	78		3160			30°	white finely radiating needles in fractures.	
275	98		3170		Intrusive fr 3118'-3124', dk gry, sl ves, dips 50°	55°		
276	100		3180			60°	3180': white anhnd min, H3-4.	
277	86		3190			40°		
278	80		3200					



PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S, R 12E.

COMPANY GE00C LOGGED BY William J. Dansart & Michael Johnson DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
279	93	58° at 3208'	3210		3211'-3332': ANDESITE(?), med dk gry, occ Plag & Ol phen.	60°		
280	90		3220		Abd hairline fractures, com spaced 1-3 cm apart, dip 50-70°.	10°		
281	95		3230		Sps high angle veins (>70°), 1 to 5 mm thick, cross cut the earlier hairline fractures.	45° 55°	3227': green chlorite(?) on fracture surfaces	Fluid level at 1600'
282	100		3240			50° 70°	larger fractures filled with calcite	
283	100		3250			50° 20° 70° 30° 50°	feldspar(?) and chlorite	
284	91		3260			60°	Poss chlorite envelope (1-2mm thick) around veins	
285	71		3270			80°		
286	95		3280			70°		
287	89		3290			80°		
288	100		3300					
289	100							

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S. R 12E.

COMPANY GEQOC LOGGED BY William J. Dansart DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
290	100	82° at 3312'	3310			70° 80°	Calcite(?) & chabazite(?) fill vesicles.	Fluid level at 1600'
291	100		3320			60° 80°		
292	100		3330		3332'-3349': ASH & CINDERS, dk rdsh-brn to brnsh-blk ang to subang volcanic rock frags (andesitic?) up to 15 cm in dia in an ash matrix.	70°		
293	93		3340					
294	95		3350		3349'-3365': LAPILLI-ASH FLOW TUFF, grysh-ol to lt brnsh-gry, abd clasts of pumice to flattened pumice, volcanic frags and obsidian frags up to 3 cm dia. Unit shows fining downward sequence. Crude horiz. bedding throughout, loss of larger clasts with depth. Ash has been clay altered.			
295	99		3360					
296	98		3370					
297	98		3380					
298	97		3390		3365'-3384': CINDERS & ASH, grysh blk to dk rdsh-brn, cinders up to 15 cm dia in ash mat.			
299	85		3400					

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S. R12E.

COMPANY GEOC LOGGED BY William J. Dansart & Michael Johnson DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
300								
301	100	60° at 3411'	3410		3384'-3416': ANDESITE(?), dk rdsh-brn to grysh-blk to med gry, Occ Plag & Ol phen (< 1mm dia) in fn gr mat. Flow basal breccia fr 3411'-3416'.		Minor calcite(?) fills open spaces	
302	73		3420					
303	100		3430		3416'-3440': LAPILLI TUFF, dk rdsh-brn to dk grnsh-gry to olv blk, clay-altered, compacted. Abd subang volcanic rock frags up to 8 cm dia bel 3428' and cont to 3440'. Upper portion of unit shows crude horiz bedding. Whole unit appears to exhibit fining upward. Poss small silks at 3434'.			Fluid level at 1600'
304	96		3440					
305	95		3450					
306	88		3460		3440'-3461': ANDESITE(?), med gry, ves fr 3440'-3450', Crude flow bands fr 3456'-3461' dip 30-60°. Fractures are horiz., give platy effect.			
307	63 36		3470					
308	90		3480		3461'-3473': ASH & CLINDERS, brecc, dk gry to dk rdsh-brn. 3474'-3487': ANDESITE(?), med lt gry, aphyric, massive. 3487'-3492': ASH & CLINDERS, med dk gry to dk rdsh-brn. 3492'-3538': ANDESITE(?), med gry, com to abd.			
309	88		3490					
310	90							
311	100		3500					

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T22S, R12E.

COMPANY GEQQC LOGGED BY Michael Johnson DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

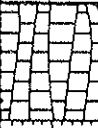
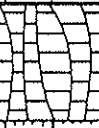
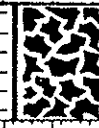






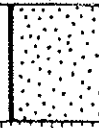
BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
311	100				anhd Plag phen (approx 2mm dia). Rare flow bands dip 10-15°.		veinlets filled with white mineral, H~4.	
312	98	95° at 3518'	3510		Horiz to subhoriz fractures are com to abd.			
313	86		3520		Intraflow breccia fr 3520'-3525', ves, oxd.		3520'-3538': veinlets of chlorite & calcite(?) surrounded by chlorite selvages up to 3mm thick	Fluid level at 1600'
314	82		3530					
315	100		3540		3538'-3566': BASALTIC ANDESITE(?), med gry to dk gry, com fn			
316	95		3540		subhd Plag phen in upper portion of unit. Ves fr 3539'-3563';			
316	43		3550		minor mod rdsh-brn ash at upper contact.			
317	100		3550					
317	98		3560				Minor calcite + white Mineral in vugs.	
318	95		3570		3566'-3621': BASALTIC ANDESITE(?), med gry to med dk gry,			
319	98		3580		aphyric. Ves fr 3566'-3616'. Ash & cinders fr 3566'-3569';			
319	96		3580		brecc fr 3568'-3571'. Flow bands at base of flow are subhoriz.			
320	96		3590					
321	82		3590		fault, minor at 3595', minor brecc, silks(?)		Chlorite(?) coats fracture surfaces	
321	97		3600					

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T 22S. R 12E

COMPANY GEOOC LOGGED BY Michael Johnson

DATE

GR. ELEV.

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
322	97		3610				Abd chlorite(?) in fractures, fills open spaces.	
323	97	97° at 3615'	3620		3621'-3662': ANDESITE(?), med gry, brec fr 3621'-3630'. Ves fr 3621'-3634'.	15°	White to pale yel min in vesicles	Fluid level at 1600'
324	67		3630					
325	100		3640					
326	100		3650					
327	95	138° at 3672'	3660		3662'-3664': LITHIC TUFF, mod rdsh-brn, com glassy lithic frags (up to 3 cm dia) in abd ash mat, clay altered. Crude	40° 70° 60°	White to translucent radiating min in fractures, open spaces.	
328	97	after 12 hours build-up	3670		horiz bedding noted. Blk, flattened glass frags rare.			
329	98		3680		3664'-3691': ANDESITE(?), med gry, rare Plag phen. Ves locally, elong to rounded (up to 1 cm dia).	60° 30°	pale blue powder lines vugs, fractures.	
331	97		3690		3691'-3714': LITHIC CRYSTAL TUFF, dusky rd to olv blk.	10° 50°	White vein min, H 4.	
332	96		3700					

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE Cor. Sec. 25 T22S. R12E.

COMPANY GE00C LOGGED BY Michael Johnson & William J. Dansart DATE GR. ELEV.

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
332	96				to grnsh gry to dk grnsh gry; abd ang to subang andesite(?)			
333	100		3710		clasts (up to 2 cm dia) and com Feldsp phen in a clay mat.			
334	85		3720		Clasts decrease in abundance with depth. 10 cm thick zone of 100% clay occurs fr 3703'-3703.5'. Black glassy zones fr 3693.5'-3696' and 3708'-3712'.	50° 35° // // // 40°	Chlorite(?) on fracture surfaces, calcite in vugs.	Fluid level at 1600'
335	100	114° at 3732'	3730					
336	100		3740		3714'-3811': DACITE(?), med gry, glassy appearance, abd Plag phen. Sps flow bands dip 60-90°. Hairline fractures dip up to 20°, angle decrease to subhoriz toward flow base; com spaced 1-3 cm apart. Bel 3804', Plag phen become abd; Flow banding becomes chaotic.		Pale blue-green powder on fracture surfaces.	
337	100		3750					
338	81		3760		Poss intrusive fr 3708'-3712'; very glassy, no chill margins observed.			
339	98		3770					
340	100		3780					
341	88		3790					
342	98		3800					

CORE LOG

PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600'W. & 2750'N. of SE. Cor. Sec. 25 T 22S. R 12E

COMPANY GEOC LOGGED BY Michael Johnson DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
343	98	128° at 3804'	3810	~ ~ ~ ~ ~	3811'-3840': TUFF, mod rdsh-brn to grnsh-gry, shows bedding (? - may be flow banding), at 3812', dipping 30°; minor volcanic lithic frags; primarily ash altered to clay. Blocks of overlying unit up to 2 m thick. have been incorp into this unit. Minor slks at base of unit, poss fault dips 50-70°.			
344	100		3820	~ ~ ~ ~ ~				
345	97		3830	~ ~ ~ ~ ~				
346	97		3840	~ ~ ~ ~ ~				
347	81	124° at 3854'	3850	~ ~ ~ ~ ~	3840'-4176': DACITE(?), med gry to pale rd to grysh-rd, abd subhd Plag phen, com Px(?) with depth; glassy to fn-gr, becomes med-gr with incr depth.	\\ / 55° 60° 60°	Chlorite(?) & calcite in fractures	
348	95		3860	~ ~ ~ ~ ~				
349	100	138° at 3864'	3870	~ ~ ~ ~ ~				
350	100		3880	~ ~ ~ ~ ~				
351	87		3890	~ ~ ~ ~ ~				
352	100		3900	~ ~ ~ ~ ~				
353	100			~ ~ ~ ~ ~				

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PROJECT Newberry, OR HOLE NUMBER N-1 LOCATION 3600' W. & 2750' N. of SE Cor. Sec. 25 T22S. R12E.

COMPANY GE00C LOGGED BY Michael Johnson DATE \_\_\_\_\_ GR. ELEV. \_\_\_\_\_

BOX NUMBER	CORE RECOVERY (PERCENT)	TEMP. ° F (BHT)	DEPTH FT.	LITHOLOGY	LITHOLOGIC DESCRIPTION	FRACTURES	ALTERATION	DRILLING INFORMATION
354	100	140° at 3914'	3910	~	Flow banding dips 50-70°	60° / 90°	Chlorite(?) & calcite fill veins.	
355	100		3920	~	Slight green tint to rock.	60°		
356	100		3930	~	Fractures dip 55-60°, veins up to 2mm thick noted.	25° / 30° / 60°	Mafics oxd along vein selvages	
357	100		3940	~	Fracture angle decreases to between 10-30°.	50° / 30°		
358	100		3950	~		40° / 90° / 30°	Chlorite(?) becomes pervasive?	
359	100	142° at 3964'	3960	~		25° / 20°		
360	94		3970	~	Col chg bel 3968': rock takes on pale red tint.	20° / 30° / 30°		
361	98		3980	~	Fractures spaced av 10-50 cm apart.	20° / 30° / 20°		
362	100		3990	~		20° / 30° / 15°		
363	100		4000	~		15°		
364	100			~		15°		