

REPORT OF EXPLORATION PROGRESS, CENTRAL NEVADA

PERIOD JANUARY 1, 1968 - APRIL 1, 1969

USGS-474-18  
Central Nevada-30

Hole <sup>1/</sup>	Coordinates N. E.	Elevation (feet above msl)	Interval drilled (footage)	T.D. (feet)	Planned T.D. (feet)	Activity during report period <sup>2/</sup>	References and remarks
UCe-1 (g)	1,395,000 429,400	7,050±50	0-2,000	2,000	2,000	J	TL: CN-7 (Dinwiddie)
UCe-2 (g)	1,293,700 523,800	6,200±50	0-1,659	1,659	2,000	J*	TL: CN-27 (Hoover and others)
UCe-3 (g)	1,535,900 508,900	7,100±50	0-2,000	2,000	2,000	J*	TL: CN-27 (Hoover and others)
UCe-4 (s)	1,403,300 467,200	6,990±25	-----	-----	200± into bedrock	Postponed	
UCe-5 (s)	1,462,000 476,300	6,875±25	-----	-----	200± into bedrock	Postponed	
UCe-6 (s)	1,340,200 512,000	6,200±25	-----	-----	200± into bedrock	Postponed	

<sup>1/</sup> (ex) - Exploratory (e) - Replacement (h) - Hydrologic test (i) - Instrument (s) Stratigraphic  
(g) - Geothermal

<sup>2/</sup> A - Geologic monitoring E - Reaming & casing I - Scheduled drill hole  
B - Geophysical logging F - Hole completed J - Preliminary report completed  
C - Hydrologic testing G - Hole abandoned SWL - Static water level  
D - No progress H - Preliminary report in progress \* - Change from previous report

*P*

Hole <sup>1/</sup>	Coordinates N. E.	Elevation (feet above msl)	Interval drilled (footage)	T.D. (feet)	Planned T.D. (feet)	Activity during report period <sup>2/</sup>	References and remarks
UCe-7 (s)	1,502,000 476,800	6,875±25	-----	-----	200± into bedrock	Postponed	
UCe-8 (s)	1,579,800 680,400	6,390±25	-----	-----	200± into bedrock	Postponed	
UCe-9 (s)	1,477,976 562,341	6,852 Top of casing	0-3,295	3,295	200± into bedrock	J	IR: CN-1* (Corchary)
UCe-10 (s)	1,433,560 558,295	6,499 Top of casing	0-2,963	2,963	200± into bedrock	J	IR: CN-1* (Corchary)
UCe-11 (s)	1,401,351* 626,475	5,789 Top of casing	0-4,206	4,206	200± into bedrock	J	IR: CN-1* (Corchary)
UCe-12a(s)	1,514,976 594,617	6,925	0-3,482	3,482	200± into bedrock	J	IR: CN-1* (Corchary)
UCe-13 (s)	1,655,605 597,794	6,401	0-1,579	1,579	200± into bedrock	J	IR: CN-1* (Corchary)
UCe-14 (s)	1,444,963 682,524	6,241	0-1,548	1,548	200± into bedrock	J	IR: CN-1* (Corchary)
UCe-15 (ex)	1,502,000 490,000	6,875±25			10,000	Postponed	

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Hole <sup>1/</sup>	Coordinates N. E.	Elevation (feet above msl)	Interval drilled (footage)	T.D. (feet)	Planned T.D. (feet)	Activity during report period <sup>2/</sup>	References and remarks
e-16 (ex)	1,499,400 487,000	6,875 <sup>+25</sup>	0-4,353	4,353	8,000	H	TL: CN-27 (Hoover and others)
e-17 (ex)	1,430,622 628,172	6,545	0-7,100	7,978	8,000	J	TL: CN-13 (Hoover, 1968a)
e-18 (ex)	1,396,833 635,840	5,763	0-6,514	6,514	8,000	J	TL: CN-2 (Dixon and Snyder) CN-10 (Snyder)
e-19 (ex)						Postponed	
e-20 (ex)	1,399,868 628,093	5,759	0-6,000	6,000	6,000	J*	TL: CN-15* (Barnes and Hoover)
e-21 (ex)*	1,397,350 668,406	5,862 (top of casing)	0-6,495	6,495	6,500	A, B, F, H	
e-23 (ex)*	1,369,027 683,895	5,799	0-6,500	6,500	6,500	A, B, F, H	

Hole <sup>1/</sup>	Coordinates N. E.	Elevation (feet above msl)	Interval drilled (footage)	T.D. (feet)	Planned T.D. (feet)	Activity during report period <sup>2/</sup>	References and remarks
-1 (e)	1,414,340 628,921	6,104	0-3,275	3,275	3,250	J*	TL: CN-17* (Hoover, 1968b)
-3 (e)*	1,399,915 628,093	5,795 (slab)	0-3,504	3,504	5,200	A	Depths of lithologi contacts within 10 ft of contacts UCe-20.
-4 (e)*	1,430,564 628,253	6,540 (slab)	0-4,578	4,578	5,200	A	Depths of lithologi contacts within 10 ft of contacts UCe-17.
-1-I-1 (i)	1,414,263 628,900	6,104	0-3,500	3,500	3,500	J*	TL: CN-17 (Hoover, 1968b)
-1-I-2 (i)	1,414,320 628,847	6,104	0-1,500	1,500	1,500	J*	TL: CN-17 (Hoover, 1968b)
H-1 (h)	1,411,443 629,720	6,011	0-3,704	3,704	3,700	J*	TL: CN-17 (Hoover, 1968b)

Hole <sup>1/</sup>	Coordinates N. E.	Elevation (feet above msl)	Interval drilled (footage)	T.D. (feet)	Planned T.D. (feet)	Activity during report period <sup>2/</sup>	References and remarks
HTH-2 (h)	1,411,929 629,588	6,025±25	0-1,000	1,000	1,000	J*	TL: CN-17 (Hoover, 1968b)
HTH-3 (h)*	1,385,944 657,119	5,915	0-6,011	6,011	6,000	A, B, C, F, H	
HTH-4 (h)*	1,385,981 685,981	5,855	0-6,036	6,036	6,000	A, B, C, F, H	
HTH-5 (h)*	1,368,424 625,929	5,496	0-6,018	6,018	6,000	A, B, C, F, H	
HTH-21 (h)*	1,397,350 668,506	5,863	0-1,330	1,330	6,500	A, G	Hole caved in.
HTH-21-1(h)*	1,397,250 668,506	5,863	0-6,500		6,500	A, B, C, F, H	
HTH-23 (h)*	1,368,087 684,237	5,795	0-7,504.5	7,504.5	7,500	A, B, C, F, H	

Hole

UCe-1

Elevation: 7,050±50 feet

Static water level: 218.0 feet

Footage (in feet)	Rock type	Stratigraphic correlations
0 - 340	Alluvium of weathered granite	Cretaceous (Kleinhampl and Ziony, 1968).
340 - 380	Granite, weathered, friable	
380 - 2,000	Granite, very light gray, medium-grained, accessory biotite	

Argillized granite zones:

460 - 468  
700.8- 701  
725.8- 726  
728 - 728.5  
851.5- 852  
857 - 864  
925 - 929  
949 - 951  
1,004 -1,013  
1,017 -1,031  
1,078 -1,078.5  
1,222.4-1,223.4  
1,332.8-1,333.2  
1,342 -1,352  
1,372 -1,373  
1,404 -1,407  
1,438 -1,444  
1,534 -1,542  
1,557 -1,602  
1,648 -1,650  
1,654.5-1,656  
1,694 -1,694.7  
1,805 -1,812  
1,822 -1,827  
1,843.5-1,844  
1,848 -1,853.5  
1,895 -1,915  
1,923.5-1,924  
1,931.5-1,933  
1,945 -1,947.5  
1,959 -1,961  
1,963 -1,966

Hole

UCe-2

Elevation: 6,200±50 feet  
Static water level: 579.6 feet

Footage (in feet)	Rock type	Stratigraphic correlations
0 -1,659	Partially to densely welded tuff.	

Hole

UCe-3

Elevation: 7,100±.0 feet

Static water level: 23<sup>3/4</sup>.1 feet

Footage (in feet)	Rock type	Stratigraphic correlations
0 - 415	Argillized, devitrified and vitric slightly to densely welded tuff	
415 - 421	Vitric bedded tuff	
421 - 905	Devitrified to argillized densely welded tuff	
905 - 920	Argillized bedded tuff	
920 - 1,161	Densely welded tuff	
1,161 - 1,304	Vitric to argillized bedded tuff and tuffaceous sand- stone and conglomerate	
1,304 - 1,380	Devitrified andesite	
1,380 - 1,396	Devitrified to argillized andesite breccia	
1,396 - 1,412	Argillized andesite	
1,412 - 1,457	Devitrified andesite	
1,457 - 1,462	Devitrified to argillized andesite breccia	
1,462 - 1,512	Devitrified andesite	
1,512 - 1,537	Argillized andesite breccia	
1,537 - 1,544	Devitrified andesite	
1,544 - 1,581.5	Argillized andesite breccia	
1,581.5 - 1,907.8	Devitrified andesite	
1,907.8 - 1,911.5	Devitrified andesite breccia	
1,911.5 - 1,983	Devitrified andesite	
1,983 - 2,000	Argillized tuffaceous sand- stone and conglomerate	



Hole

UCe-9

Elevation: 6,852 feet  
Static water level: 81 feet

Footage (in feet)	Rock type	Stratigraphic correlations
0 -2,805	Alluvium	
2,805 -2,945	Bedded tuff or tuffaceous sandstone	
2,945 -3,040	Welded tuff	Shingle Pass Tuff(?)
3,040 -3,295 (T.D.)	Vitric bedded tuff or tuffaceous sandstone	(Cook, 1960).

Hole

UCe-10

Elevation: 6,499 feet  
Static water level: flowing

Footage (in feet)	Rock type	Stratigraphic correlations
0 -2,660	Alluvium	
2,660 -2,963 (T.D.)	Dolomite	Lower Devonian(?) Sevy Formation(?)

Hole

UCe-11

Elevation: 5,789 feet

Static water level: 360 feet (approx.)

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Footage (in feet)	Rock type	Stratigraphic correlations
0 - 3,286	Alluvium and colluvium	Alluvium derived primarily from Morey Peak area tuffs.
3,286 - 3,930	Tuffaceous sediments	
3,930 - 4,030	Faulted and brecciated tuffaceous sediments	
4,030 - 4,206 (T.D.)	Zeolitized densely to partially welded tuff	

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Hole

UCe-12a

Elevation: 6,925 feet

Static water level: 336 feet

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Footage (in feet)	Rock type	Stratigraphic correlations
0 - 1,540	Alluvium	
1,540 - 1,600	Densely to partially welded tuff	Shingle Pass Tuff(?) (Cook, 1960)
1,600 - 1,820	Slightly welded tuff	
1,820 - 3,198	Densely welded tuff	
3,198 - 3,290	Bedded tuff	
3,290 - 3,482 (T.D.)	Andesite	

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Hole

UCe-13

Elevation: 6,401 feet  
Static water level: Not available

Footage (in feet)	Rock type	Stratigraphic correlations
0 -1,225 1,225 -1,579 (T.D.)	Alluvium Welded tuff	

Hole

UCe-14

Elevation: 6,241 feet

Static water level: Not available

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Footage (in feet)	Rock type	Stratigraphic correlations
0 -1,298	Alluvium	
1,298 -1,405	Tuffaceous sandstone	
1,405 -1,428	Basalt (or andesite) and tuffaceous sandstone (or agglomerate)	
1,428 -1,548 (T.D.)	Densely welded tuff	

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Hole

UCe-16

Elevation: 6,875±25 feet  
Static water level: flowing

Footage (in feet)	Rock type	Stratigraphic correlations	Feet (in feet)
0 -1,104	Alluvium		
1,104 -1,361	Welded tuff		
1,361 -1,471	Vitric to argillized bedded tuff		2,100
1,471 -4,353	Rhyolite		2,570
			2,700
			2,800
			2,900
			3,200
			3,590
			3,600
			4,000
			4,300

Footage (in feet)	Rock type	Stratigraphic correlations
0 - 2,100	Alluvium	
2,100 - 2,570	Argillized and zeolitized slightly to partially welded tuff	
2,570 - 2,705	Densely welded tuff	
2,705 - 2,800	Zeolitized to argillized bedded tuff and tuffaceous sediments	
2,800 - 2,985	Argillized partially welded tuff	
2,985 - 3,222	Densely welded tuff	
3,222 - 3,598	Argillized slightly to partially welded tuff	
3,598 - 3,652	Argillized bedded tuff and tuffaceous sediments(?)	
3,652 - 4,037	Argillized partially to densely welded tuff	
4,037 - 4,072	Argillized bedded tuff and tuffaceous sediments(?)	
4,072 - 4,128	Densely welded tuff	
4,128 - 4,138	Argillized bedded tuff and tuffaceous sediments	
4,138 - 4,512	Argillized partially welded tuff	
4,512 - 4,560	Argillized partially to densely welded tuff	
4,560 - 5,136	Argillized densely welded tuff	
5,136 - 5,580	Argillized partially to densely welded tuff	
5,580 - 5,668	Argillized conglomeratic tuffaceous sandstone and carbonaceous siltstone	
5,668 - 5,703	Argillized partially welded tuff	
5,703 - 6,105	Argillized partially to densely welded tuff	
6,105 - 6,284	Argillized conglomeratic tuffaceous sandstone and carbonaceous siltstone	
6,284 - 6,325	Argillized slightly welded tuff	
6,325 - 6,503	Argillized slightly to partially welded tuff	
6,503 - 6,535	Argillized bedded tuff	
6,535 - 6,565	Argillized slightly to densely welded tuff	
6,565 - 6,581	Argillized bedded tuff	



Hole

UCe-17--Continued

Footage (in feet)	Rock type	Stratigraphic correlations
6,581 - 7,176	Densely welded tuff	
7,176 - 7,334	Argillized partially to densely welded tuff	
7,334 - 7,372	Argillized slightly welded tuff	
7,372 - 7,403	Argillized bedded tuff (?)	
7,403 - 7,500	Argillized slightly to densely welded tuff	
7,500 - 7,610	Argillized bedded tuff, welded tuff, or rhyolite lava(?)	
7,610 - 7,776	Argillized bedded tuff and slightly welded tuff	
7,776 - 7,978 (T.D.)	Argillized slightly to partially welded tuff(?)	

Hole

UCe-18

Elevation: 5,763 feet

Static water level: 196 feet

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Footage (in feet)	Rock type	Stratigraphic correlations
0 - 4,090*	Alluvium and fanglomerate	
4,090 - 4,205*	Tuffaceous sediments(?)*	
4,205 - 4,380	Lake beds and gypsum	
4,380 - 6,444	Rhyolite; argillized, with highly fractured or breccia zones at: 4,708 - 4,782 5,310 - 5,404 5,442 - 5,542 5,856 - 5,878 5,982 - 6,030 6,308 - 6,384	
6,444 - 6,514 (T.D.)	Zeolitized and argillized bedded tuff	

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Hole

UCe-20

Elevation: 5,759 feet

Static water level: 215 feet\*

Footage (in feet)	Rock type	Stratigraphic correlations	Footage (in feet)
			0
			1,964
0 - 3,320	Alluvium		
3,320 - 3,347	Zeolitized slightly welded tuff		2,032
3,347 - 4,788	Indurated tuffaceous conglomerate		
4,788 - 4,804	Zeolitized partially welded tuff		2,187
4,804 - 4,838	Zeolitized densely welded tuff		
4,838 - 4,882	Partially welded tuff		2,224
4,882 - 6,000	Partially to densely welded tuff		2,334
			2,404
			2,568
			3,200
			3,231
			3,347
			0

UCe-21\*

Elevation: 5,862 feet

Static water level: Not available

Footage (in feet)	Rock type	Stratigraphic correlations
0 - 1,964	Alluvium	
1,964 - 2,032	Zeolitized and argillized bedded tuff and tuffaceous sandstone	
2,032 - 2,187	Devitrified to zeolitized partially to densely welded tuff	
2,187 - 2,224	Zeolitized and argillized tuffa- ceous sandstone	
2,224 - 2,334	Devitrified densely welded tuff	
2,334 - 2,404	Indurated tuffaceous sandstone	
2,404 - 2,568	Devitrified to argillized slightly to densely welded tuff	Shingle Pass Tuff(?) (Cook, 1960)
2,568 - 3,206	Argillized and zeolitized to devitrified slightly to densely welded tuff	
3,206 - 3,215	Argillized and zeolitized bedded tuff	
3,215 - 3,326	Zeolitized to devitrified slightly to densely welded tuff	
3,326 - 3,991	Argillized and devitrified partially to densely welded tuff	
3,991 - 4,686	Indurated thin- to thick-bedded tuffaceous siltstone, sandstone and conglomerate	
4,686 - 4,762	Argillized to devitrified partially to densely welded tuff	
4,762 - 4,854	Argillized and vitric to devitrified partially to densely welded tuff	
4,854 - 4,934	Argillized and devitrified densely welded tuff	
4,934 - 4,950	Argillized bedded tuff	
4,950 - 5,341	Argillized and devitrified densely welded tuff	
5,341 - 5,526	Argillized to zeolitized bedded tuff	
5,526 - 6,282	Argillized and devitrified partially to densely welded tuff	
6,282 - 6,398	Argillized bedded tuff(?)	
6,398 - 6,495	Argillized and devitrified partially to densely welded tuff	

Footage (in feet)	Rock type	Stratigraphic correlations
0 - 114	Alluvium	
114 - 174	Basalt	
174 - 1,061	Alluvium	
1,061 - 1,134	Devitrified densely welded tuff	
1,134 - 1,158	Argillized to zeolitized bedded tuff	
1,158 - 1,348	Devitrified densely welded tuff	
1,348 - 1,396	Zeolitized and argillized to vitric bedded tuff	
1,396 - 1,439	Devitrified densely welded tuff	Shingle Pass Tuff(?)
1,439 - 1,462	Zeolitized and argillized bedded tuff and conglomerate	(Cook, 1960)
1,462 - 2,504	Devitrified partially to densely welded tuff	
2,504 - 2,580	Argillized to zeolitized bedded tuff and tuffaceous sediments	
2,580 - 2,773	Zeolitized partially welded tuff	
2,773 - 2,847	Argillized to zeolitized bedded tuff and tuffaceous sediments	
2,847 - 3,198	Argillized to devitrified densely welded tuff	
3,198 - 3,481	Argillized to devitrified densely to partially welded tuff	
3,481 - 3,630	Zeolitized to argillized bedded tuff	
3,630 - 3,741	Argillized to devitrified densely welded tuff	
3,741 - 3,933	Zeolitized to argillized bedded tuff	
3,933 - 4,655	Vitric to devitrified densely welded tuff interbedded with zeolitized bedded tuff	
4,655 - 4,663	Argillized bedded tuff	
4,663 - 5,124	Argillized to devitrified partially to densely welded tuff	
5,124 - 5,154	Argillized bedded tuff(?)	
5,154 - 5,922	Argillized to devitrified densely welded tuff	
5,922 - 5,950	Argillized bedded tuff	
5,950 - 6,500	Argillized to devitrified partially to densely welded tuff	

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Hole

UC-1

Elevation: 6,104 feet  
Static water level: Not available

Footage (in feet)	Rock type	Stratigraphic correlations
0 -2,400	Alluvium	
2,400 -3,275 (T.D.)	Tuffaceous sediments and zeolitized nonwelded tuff	

Hole  
UC-1-I-1

Elevation: 6,104 feet  
Static water level: Not available

Footage (in feet)	Rock type	Stratigraphic correlations
0 - 2,404	Alluvium	
2,404 - 3,500 (T.D.)	Tuffaceous sediments and zeolitized nonwelded tuff	

Hole  
UC-1-I-2

Elevation: 6,104 feet  
Static water level: Not available

Footage (in feet)	Rock type	Stratigraphic correlations
0 -1,500 (T.D.)	Alluvium	



Hole

HTH-1

Elevation: 6,011 feet  
Static water level: 553 feet

Footage (in feet)	Rock type	Stratigraphic correlations
0 - 2,390	Alluvium	
2,390 - 2,468	Densely welded tuff	
2,468 - 3,704 (T.D.)	Tuffaceous sediments	

Hole  
HTH-2

Elevation: 6,024 feet  
Static water level: 565 feet

Footage (in feet)	Rock type	Stratigraphic correlations
0 -1,000 (T.D.)	Alluvium	

Hole

HTH-3\*

Elevation: 5,915 feet

Static water level: Not available

Footage (in feet)	Rock type	Stratigraphic correlations	Footage (in feet)
0 - 160(?)	Alluvium		0 -
160 - 4,898	Devitrified to argillized densely welded tuff		237 -
4,898 - 4,979	Tuffaceous sandstone and claystone		692 -
4,979 - 6,011	Devitrified to argillized densely welded tuff		829 -
			835 -
			1,234 -
			1,238 -
			1,612 -
			1,655 -
			2,651 -
			2,718 -
			4,274 -
			5,000 -

Hole

HTH-4\*

Elevation: 5,855 feet

Static water level: Not available

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Footage (in feet)	Rock type	Stratigraphic correlations
0 - 237	Alluvium	
237 - 692	Rhyolite	
692 - 829	Partially to densely welded tuff	
829 - 835	Bedded tuff	
835 - 1,234	Partially to densely welded tuff	
1,234 - 1,238	Bedded tuff	
1,238 - 1,612	Partially to densely welded tuff	
1,612 - 1,655	Bedded tuff	
1,655 - 2,651	Partially to densely welded tuff	
2,651 - 2,718	Bedded tuff	
2,718 - 4,274	Partially to densely welded tuff	
4,274 - 4,296	Bedded tuff	
4,296 - 6,036	Partially to densely welded tuff	

Hole

HTH-5\*

Elevation: 5,496 feet

Static water level: Not available

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Footage (in feet)	Rock type	Stratigraphic correlations
0 - 1,224	Alluvium	
1,224 - 1,548	Argillized to zeolitized tuffaceous sandstone and siltstone	
1,548 - 1,607	Devitrified densely welded tuff	Shingle Pass Tuff(?) (Cook, 1960)
1,607 - 1,659	Zeolitized to devitrified partially welded tuff	Shingle Pass Tuff(?) (Cook, 1960)
1,659 - 1,702	Argillized to zeolitized bedded tuff	
1,702 - 1,810	Devitrified densely welded tuff	
1,810 - 2,024	Argillized to zeolitized slightly to partially welded tuff	
2,024 - 2,165	Devitrified densely welded tuff	
2,165 - 2,185	Argillized bedded tuff	
2,185 - 2,952	Zeolitized to devitrified partially to densely welded tuff	
2,952 - 2,972	Argillized to zeolitized bedded tuff	
2,972 - 3,279	Zeolitized to devitrified partially to densely welded tuff	
3,279 - 3,288	Argillized bedded tuff	
3,288 - 6,018	Zeolitized to devitrified partially to densely welded tuff	

Hole

HTH-21-1

Elevation: 5,863 feet

Static water level: 497 feet

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Footage (in feet)	Rock type	Stratigraphic correlations
0 - 1,964	Alluvium	
1,964 - 2,014	Zeolitized and argillized bedded tuff and tuffaceous sandstone	
2,014 - 2,180	Devitrified to zeolitized partially to densely welded tuff	
2,180 - 2,210	Zeolitized and argillized tuffaceous sandstone	
2,210 - 2,316	Devitrified densely welded tuff	
2,316 - 2,388	Indurated tuffaceous sandstone	
2,388 - 2,518	Devitrified densely welded tuff	Shingle Pass Tuff(?) (Cook, 1960)
2,518 - 3,207	Argillized and zeolitized to devitrified slightly to densely welded tuff	
3,207 - 3,334	Zeolitized to devitrified slightly to densely welded tuff	
3,334 - 3,981	Argillized and devitrified partially to densely welded tuff	
3,981 - 4,705	Indurated thin- to thick-bedded tuffaceous siltstone, sandstone, and conglomerate	
4,705 - 4,771	Argillized to devitrified partially to densely welded tuff	
4,771 - 4,863	Argillized and vitric to devit- rified partially to densely welded tuff	
4,863 - 4,934	Argillized and devitrified densely welded tuff	
4,934 - 4,976	Argillized bedded tuff	
4,976 - 5,308	Argillized and devitrified densely welded tuff	

Hole

HTH-21-1--Continued

Footage (in feet)	Rock type	Stratigraphic correlations
5,308 - 5,534	Argillized bedded tuff	
5,534 - 6,305	Argillized and devitrified partially to densely welded tuff	
6,305 - 6,412	Argillized bedded tuff(?)	
6,412 - 6,500	Argillized and devitrified partially to densely welded tuff	

Footage (in feet)	Rock type	Stratigraphic correlations
0 - 1,093	Alluvium	
1,093 - 1,181	Devitrified densely welded tuff	
1,181 - 1,188	Argillized to zeolitized bedded tuff	
1,188 - 1,416	Devitrified densely welded tuff	
1,416 - 1,466	Zeolitized and argillized to vitric bedded tuff	
1,466 - 1,520	Devitrified densely welded tuff	Shingle Pass Tuff(?) (Cook, 1960)
1,520 - 1,538	Zeolitized and argillized bedded tuff and conglomerate	
1,538 - 2,675	Devitrified partially to densely welded tuff	
2,675 - 2,771	Argillized to zeolitized bedded tuff and tuffaceous sediments	
2,771 - 2,910	Zeolitized partially welded tuff	
2,910 - 2,950	Argillized to zeolitized bedded tuff and tuffaceous sediments	
2,950 - 3,300	Argillized to devitrified partially to densely welded tuff	
3,300 - 3,314	Argillized bedded tuff	
3,314 - 3,486	Argillized to devitrified partially to densely welded tuff	
3,486 - 3,731	Zeolitized to argillized bedded tuff	
3,731 - 4,026	Zeolitized to devitrified partially to densely welded tuff	
4,026 - 4,274	Vitric to devitrified densely welded tuff interbedded with zeolitized bedded tuff	
4,274 - 4,931	Zeolitized to argillized slightly to densely welded tuff	
4,931 - 4,959	Argillized bedded tuff	
4,959 - 5,032	Argillized to devitrified slightly to partially welded tuff	
5,032 - 5,928	Argillized to devitrified partially to densely welded tuff	
5,928 - 5,945	Argillized bedded tuff	
5,945 - 7,504.5	Argillized to devitrified partially to densely welded tuff	



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