1984 PAIUTE DRILLING

DRILL LOG EXPLANATION

VEINING

Qtz veining
Clay veining
Calcite veining
Pyrite veining
Weak stockwork veining
Moderate stockwork veining
Strong stockwork veining

STRUCTURES

Fractures
Flow foliations
Faults
Shearing
Contacts

ALTERATION

Weak
Moderate
Strong
DESCRIPTIVE GEOLOGY

Set casing with rock bit - no recovery

10.0-66.0', purple, coarsely lithic, welded tuff; latitic. Propylitization on fracts and in lithic frags; weak but increasing slightly with depth. Limon on fracts

26-28', minor sugary qtz veinlets forming wk stkwrk
28 & 32', bleached pale gray, gougy material on borders
**DEScriptive Geology**

66-101.9', gray-grn, welded, coarsely lithic tuff. Pervasive propyl; mostly as chlorite and clay. Soapy grn clay filling fracts.

87.7 to 93.8, strongly fractured, sheared, gougy in appearance. Weak limon and goeth stain on fracts

101.9-112.0', sharp gradational contact to soapy grn-gray massive clay; locally sheared and gougy

112.0-120.4', sharp gradational contact to gray-grn, welded, coarsely lithic tuff. Pervasively propyl (chlorite + py). Trace hematite on fracts

120.4-134.5', same as 112-120' except for weak qtz stkwrk veining with minor S102 flooding along vein margins. Vein qtz is gray, cryptocryst and glassy looking. Mod. goeth, limon, hematite

124.0-131.0', silicified patches.

134.5-140.3', massive gray py clay (fault fissure?)

134.5-138.8', up to 1% dissemp py

138.8-140.3', 1-3% dissemp py Sharp contacts
**DESCRIPTIVE GEOLOGY**

140.3-146.0', gray-grn, welded, coarsely lithic tuff. Py increasing to 2-3% @ 143.0-145.7'. Wk qtz+hem+py veining of sugary qtz @ 145.7-146.0'. Minor hem filling fracts.

146.0-158.7', lt red-brn, welded, coarsely lithic tuff. Zone of wk qtz+hem+py veining, locally forming wk stkwrk. 1-3% dissem py in veins and wall rock. Veins just fill fracts with no brecc. Ladder-type vein @ 153.0'.

158.7-168.7', gradation into darker red-brn coarsely lithic, welded tuff. Propyl restricted to lithic frags only.

168.7-179.9', sharp gradation into lt gray-brn, bleached, coarsely lithic, welded tuff. Slight increase in propyl. Hem assoc with wk qtz veining. Wk SiO₂ flooding for 2mm bordering a vein @ 172.0'. 1-2% dissem py with a reddish oxidized cast.

182.8-203.9', unaltered, black, fine-grained basaltic dike cut by minor calcite veinlets. Contacts marked by thin chilled zones. Dike contains traces of fine dissem py, particularly in the chilled zones.

203.9-217.6', med gray-grn, coarsely lithic, welded tuff, wk sugary qtz+hem+py veining from 208.3' onward.
217.6-222.5', lt tan-gray welded, coarsely lithic tuff. Minor silica-flooded pyritic patches. Wk qtz+barite veining.

222.5-224.0', str qtz stkwrk (~25% of rock; 5-10% py.

224.0-236.7', lt gray to tan welded, coarsely lithic tuff. Minor veinlets of clay+py to 234.5'. Wk qtz+adularia (?) veining, milky white, vuggy, slightly banded. Qtz veins occur from 234.5-235.2'. Clay+py veins from 235.2-236.7'.

236.7-244.5', gray, welded, coarsely lithic tuff.
Gradational contact.

240.0-244.5', wk qtz and qtz+hem+barite+py veining, up to 1/2'' thick.

244.5-261.2', lt grn-gray, welded, coarsely lithic tuff.

250.5', 1'' wide clay-filled fracture parallel to welding and narrow qtz+hem veinlet.

261.2-266.0', gradational color change to med grn-gray.

266.0-266.8', dk gray silica-flooded, str vuggy, qtz+py+adularia veining.

266.8-287.3', same as 261-166 except w/o patches of silic. 266.8-271.2' wk qtz+py and clay+py veining.
270', argentite in qtz?

277.5', thin clay+py+goeth frac filling

279.3', 2'' dk gray strongly silic patch w/ irreg boundaries
**DESCRIPTIVE GEOLOGY**

Set casing with rock bit - no recovery

10.0-28.2', dark red-brn, welded, coarsely lithic latitic tuff. Propyl along fracts. Rock typically contains silic lithic frags. (reworked material?)

18.7', 1'' fracture filling, clay + chlorite

24.1-28.2', fractures with limon and MnO₂ staining, clay + chlorite fillings

28.2-30.2', tan gouge material

30.2-31.5', cream-color str bleach, faint tuff text. Mod limon stain on fracts

31.5-35.2', sharp gradation to red-brn, welded, coarsely lithic tuff, the same as 10.0-28.2'

35.2-60.2', sharp depositional contact into a similar tuff unit of lighter color. Wk to mod. limon on fracts, abundance of silicified and/or pyritized lithic frags. Calcite veinlets from 58.5-60.2'.

60.2-97.5', sharp gradation to bleached, welded, coarsely-lithic tuff. Lt grn-gray where wkly propyl, med gray-grn where mod, bright blue-grn where strong Limon-stain on fracts. Minor colorless granular qtz vlets, 60.2-61.3'.

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<th>% RECY./SAMPLE INT.</th>
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97.5-118.2', moderately bleached, welded, coarsely lithic tuff with faint texture. Variable propyl color is lt grn-gray (wk) to med. gray-grn (mod). 2' thick olive-grn clay + (alunite?) seam parallel to foliation @ 100.5' and a pink (alunite?) patch at 101.1'.

116.6-118.2', tiny glassy looking qtz veinlets

118.2-138.9', shear zone. Lt to med grn clay gouge containing brn & gray silicified frags of tuff. Patches of massive silica-flooding from 120.8-126.9'. Pink-tinted, sheeted, glassy qtz veins appear at 126.9-132.2 and 133.0-134.0'. Strong silica-flooding cut by strq qtz stockwork veining, and (>25% veins in rock) breccia filling 132.2-133.0' and 134.0-138.9'. Color of rock dk gray where strongly silic.
**DESCRIPTIVE GEOLOGY**

138.9-157.4', sharp contact into lt brn-gray bleached, welded, coarsely lithic tuff with faint welded texture. Wk qtz + py + hem veining throughout with wk stkwr veining at 138.9-143.4', 150.7-151.8' and 153.6-154.2'. Most py occurs disseminated at outermost edge of veins. Veins are both granular and glassy types.

157.4-158.8', shear zone, hvy lim + clay fract fillings

158.8-188.5', med gray, welded, coarsely lithic tuff, slightly bleached, with propyl lithic frags. Volc text slightly more pronounced. Wk qtz + hem + py veining, clay + py veining and qtz + clay + limon veining. Qtz veins predominantly granular textured with only minor glassy veins.

188.5-203.7', same as 158-188' except lt gray with grn propyl lithic frags, and increased bleaching. Wk to strongly silicified, dk gray patches w/ 5% py locally. Rock contains 1-2% disseminated py. A shear zone with 2-5% py and sharp contacts @ 191.1-191.4'. Wk granular hairline qtz veins 189.5-191.1' and 198.1-203.7' and wk stkwr 191.4-194.1', incr with depth. 194.1-196.0', dk gray str silic bx zone w str qtz + hem + py + adal stkwr, silic clay-gouge, 2-3% py.
**DESCRIPTIVE GEOLOGY**

203.7-242.0', lt gray, welded, coarsely lithic tuff with trace dissem py, bleaching and flow foliation. Zone of wk scattered qtz + clay ± hem ± py veins, qtz ± py veins, and clay ± py veins, filling fracts. Wk qtz + py stkwk veining and assoc propyl and silica-flooding @ 225.8-226.6' and 241.5-242.0'. Scattered dk patches of silicification @ 232.7-233.0' and 239.2-239.4'. Gradual color change to med gray 240-242'.

242.0-243.5', fault zone, tr py, str clay stkwk veins

243.5-253.5', med gray, welded, coarsely-lithic tuff w/ tr dissem py. Wk dk gray qtz veining and silic. patches 243.5-244.0'. Wk clay veining @ 244.0-248.9'. Clay + qtz + py veinlet @ 253.0'. Gradational contact

253.5-275.7', unaltered, welded, coarsely-lithic tuff; dk gray, with fresh biotite, becoming bleached 263.4-266.9'. Wk py ± qtz veins and thin qtz + clay veins scattered @ 266.0-266.8' and 268.9-275.7'. Zone of med. grn-gray altered tuff from 266.9-268.9'

275.7-284.0', med gray, altered, welded, coarsely lithic tuff with thin, wk qtz + py vlets. Gradat'nl upper contact
284.0-289.2', fault, high clay content, volc texture obscured. Horse of unsheared med gray tuff at 287.0-288.3'.

289.2-336.0', med gray, altered, welded, coarsely lithic tuff with <1% disseminated py. Scattered Qtz and Qtz + clay veins @ 290.4 (granular Qtz), @ 292.8-293.7' (glassy Qtz), @ 303.5' (Qtz + py), @ 313.7' (Qtz + clay + py), @ 315.3' (½ glassy Qtz, ½ banded) @ 328.7' (Qtz + hem + py); clay or clay + hem + py veins @ 302.6-336.0'.

336.0-337.4', wk shear zone, wk clay vlets

337.4-368.8', same as 289-336' except for zones of dk gray strong silic up to 4' thick parallel to flow foliation of welding. Tr disseminated py in rock. Wk yell to gray clay or clay + py vlets from 343.0-368.8'.
368.8-374.0', fault zone; sheared material, same as 289-336'

374.0-380.0', same as 289-336'
### DESCRIPTIVE GEOLOGY

Set casing with rock bit - no recovery

<table>
<thead>
<tr>
<th>Depth</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>10.0-15.5'</td>
<td>gray-grn, bleached, altered, welded, coarsely lithic tuff, wk limon on fracts</td>
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<tr>
<td>15.5-23.6'</td>
<td>sharp contact, gray-grn, massive clay, strong stkwk of massive qtz, 1/8-3&quot; thick, veins slightly vuggy, show signs of trecciation and recementing w/ clay + qtz, limon &amp; jaros on fracts</td>
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<tr>
<td>23.6-30.4'</td>
<td>str qtz stkwk veining in gray-grn, bleached altered, welded, coarsely lithic tuff, sheared and mod silica-flooded @ 26.0-27.0', massive clay @ 29.0, 29.6-30.4 silic assoc w/ str stkwk,</td>
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<td>30.4-65.8'</td>
<td>bright blue-grn, altered, welded, coarsely lithic tuff, volc text very faint, str silic assoc w/ qtz stkwk veining, some adularia in veins, 2&quot; bleached gray envelope on some vein margins, mod hem, goeth, limon, and jaros on fracts</td>
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<td>63.2-65.8'</td>
<td>grades to bleached, gray-grn color</td>
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65.8-84.0', qtz stkwwk veining in blue-grn altered, welded, coarsely lithic tuff, volc text preserved; trace dissem py in veins and wall rock, wk hem + clay veining up to 3/8"

84.0-99.8', pale grn-gray, bleached, welded, coarsely lithic tuff. 84-89.3', heavy limon on fracts. 86.7-99.8', tr dissem py in veins & wall rocks. 89.3-99.8', wk to str stkwwk, vuggy, granular qtz + adull + py veins up to 1/8" thick. Silicified 1" borders of larger veins and areas of str stkwwk veining. Wk clay + limon veins

99.8-108.5', olive-gray becoming lt grn, bleached, altered, welded, coarsely lithic tuff. 99.8-100.4', minor soapy grn epidote + chlorite on fracts. 100.4-103.3', wk brecc'n of rock, filling by massive gray, tan, grn clay

108.5-121.9', lt yell-grn becoming pale gray-grn, bleached, welded, coarsely lithic tuff, volc text obliterated 108.5-110.0'. Cut by minor qtz veins to mod qtz stkwwk. 108.5-110.0', mod clay veining. 110.0-112.4', wk clay veining. 110.0-113.0', str pervasive silica-flooding. 110.1-110.9' & 111.8-112.4', sheared

121.9-127.6', fault. Silic fault bx with gray & red-brn rounded clasts of massive qtz and silic tuff. 124.6-127.6', bleached, lt gray sheared tuff.

127.6-134.9', sharp contacts, red-brn, altered, welded, coarsely lithic tuff, wk propyl on fracts, wk grn and tan clay veining on fracts

134.9-145.2', gradation to bleached, lt gray, altered, welded, coarsely lithic tuff, volc text more distinct, (cont'd)
### Descriptive Geology

<table>
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<tr>
<th>Interval</th>
<th>Core Size</th>
<th>% Recovered</th>
<th>Sample Number</th>
<th>Rec'y/Hole</th>
<th>Au (ppm)</th>
<th>Est. Mined Au (ppm)</th>
<th>Comments</th>
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<tbody>
<tr>
<td>134.9-135.7', minor Qtz + clay veins w/ wk silic on margins, 142.0-145.2', wk clay veining</td>
<td>20</td>
<td>414</td>
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<td>0.0</td>
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<tr>
<td>145.2-158.3', med gray, altered, welded, coarsely lithic tuff. Mod tan clay + py veining. 148.8-149.3', dk gray patch of str silicif. 153.0-155.4', very vuggy, wk to mod Qtz + py stkwk veins up to 3/4&quot; thick, 1/2 py disseminated.</td>
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<td>158.3-162.5', red-brn, altered, welded, coarsely lithic tuff, minor clay veins and Qtz veins</td>
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<td>162.5-169.7', bleached, lt gray, altered, welded, coarsely lithic tuff; wk Qtz + clay + py veining</td>
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<td>169.7-174.0', red-brn, altered, welded, coarsely lithic tuff; volc text quite distinct</td>
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<td>174.0-179.7', bleached, lt gray tuff same as 162-169', 175.7', clay and lesser Qtz vein</td>
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<td>179.7-184.0', med gray, altered, welded, coarsely lithic tuff, color change due to incr in hem content</td>
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<tr>
<td>184.0-196.5', lt gray, altered, welded, coarsely lithic tuff, color change due to decrease in hem content, volc text well-preserved. 188.2-194.5', minor Qtz + clay + py veins. 188.9-196.5', tr disseminated py in veins and wall rock. 194.5-195.0', mod Qtz stkwk veining.</td>
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<tr>
<td>196.5-225.0', lt grn-gray, altered, welded, coarsely lithic tuff. 196.5-207.0', tr disseminated py. 199.7', clay seam, 1/4&quot; thick. 209.0-210.0', hem + clay vlets. 215.5-216.5', propyl on fracts only. 224.5', hailline pyrite veinlets</td>
<td>89</td>
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Set casing with rock bit in badly fractured ground - no recovery

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<th>DRILLING INTERVAL</th>
<th>% RECOVERED CORE SIZE</th>
<th>SAMPLE NUMBER</th>
<th>ESTIMATED %</th>
<th>Au (ppm)</th>
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<td>21.0-27.0', strongly altered, bleached, welded, coarsely lithic tuff, lt grn-gray, becoming lt gray @ 25'. Mod qtz ± hem stk wk veining, wk clay veining</td>
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<td>457</td>
<td>0.009</td>
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<td>27.0-30.0', sharp color change to bright blue-grn. Mod qtz stk wk veining, wk clay veining.</td>
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<td>458</td>
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<td>30.0-35.0', color and alteration similar to 21-27' except wk incr to mod py; wk qtz veining @ 34-35', wk clay veining 30-34'</td>
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<td>459</td>
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<td>35.0-57.6', sharp change to variably propylitized, pyritized and silicified, welded, coarsely lithic tuff bright blue-grn (strong propyl) to med gray-grn (mod propyl) color; strong silic 35-39.4', wk patchy silic 39.4-57.6'. Wk qtz stk wk, veins are massive, glassy type to 48.3', then predominantly colorless, vuggy, granular &amp; with tan clay ± barite filling centers. Wk yellow clay veining. Py &lt; 1% @ 35-39', 1-3% @ 39-57'.</td>
<td>43</td>
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<td>52.5-56.4', heavy limon + hem mud in fracts</td>
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<td>57.6-95.0', altered, lt gray=grn, qtz veined, welded, coarsely lithic tuff. Wk patchy silic assoc with qtz stk wk at 76.7-78.1', and 83.0-86.4'. Wk to mod stk wk of banded, vuggy, granular qtz ± adularia ± hem ± py ± clay veins from 64.1-78.1', 80.0-81.0', 83.0-86.4'. Wk qtz ± clay, or clay veins filling parallel fracts throughout the remainder (cont'd)</td>
<td>100</td>
<td>463</td>
<td>0.001</td>
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## Descriptive Geology

Disseminated pyrite occurs both in veins and wall rock:
- 63.5', parallel quartz veins
- 65.5', larger parallel quartz veins
- 67.0', quartz + adularia (?) vein
- 77.5', dark gray quartz vein
- 81.5', quartz + adularia vein
- 86.5-95.0', parallel quartz veining

95.0-102.3', altered, welded, coarsely lithic tuff.
Mottled light green-gray and red-brown. Localized silicic and minor granular, vuggy quartz veins 95-97' and 101.6-102.7'. Pyrite variable and inferred where veins occur.

102.7-148.3', bleached, altered, welded, coarsely lithic tuff. Scattered, weak quartz veins filling parallel fractures @ 105.8-106.9', 108.7-109.6', 114.1-128.8', 132-133, 139.2-144.0', and 146.5-148.3'. Narrow zones of weak to strong stochastic veining and localized silicic veins on vein margins @ 102.7-103.3', 108.1-108.7', 117', 144.0-146.5'. Quartz veins are white to medium gray, vuggy, broken. Disseminated pyrite is common with intensity of quartz stochastic.

120', vuggy quartz + pyrite vein containing small amounts of a metallic, dark steel-gray, cubic sulfide, with poor cleavage, possibly digenite (Cu2S) or stromeyerite (CuAgS). Zones of shearing @ 121.7-123.0' and 144.0-146.5'.

143.5', fault
144.0', fault
### Descriptive Geology

148.3-165.4', med gray, altered, welded, coarsely lithic tuff. Less than 1% disseminated py. 148.0-151.8', wk gray, waxy clay veining. 151.8-163.1', mod stkwk veining a) vuggy, white to lt gray, granular qtz + py ± barite, b) thin, qtz + hem + py veins, c) clay > qtz veins, up to 1″, minor brecc’n. 163.1-165.4', shear zone, clay gouge with chunks of gray chalced qtz

165.4-214.2', med gray, altered, welded, coarsely lithic tuff, dk grn-gray where silic.
165.4-166.1', dk gray, str silic, brecciated w/ mod qtz stkwk, 1% disseminated py
166.1-178.1', wk stkwk of granular, vuggy qtz + py + barite, minor brecc’n of wall rocks and silica-flooding. Locally stkwk becomes mod. Py decreases with depth.
178.1-181.1', wk yellow or tan clay vlets
181.1-214.2', zone of qtz stkwk veining, range from wk to strong, gray to white granular, qtz + adularia + py ± hem ± tan clay veins up to ¼″ thick with baring filling vugs
**DESCRIPTIVE GEOLOGY**

214.2-232.9', altered, welded, coarsely lithic tuff. Med gray, to dk gray @ 229.5'. Gray gouge zone (fault) and sheared tuff 223.7-225.0'. Wk qtz + clay stk wk stringers @ 218.7-220.2'.

221.8-222.7', wk clay > qtz veins
225.0-225.7', wk clay > qtz veins
229.8', 3/8' clay > qtz + hem vein

232.9-233.5', unaltered black basaltic dike

233.5-254.5', dk gray, welded, coarsely lithic tuff. Localized mod to strong patches of silic up to 4" in diam. Wk calcite stringers

254.5-272.0', sharp gradation to red-brn, welded, coarsely-lithic tuff. Tr dissem py
263.5', 1/16" red hem + clay veinlet
266.1-266.7', gouge zone
Set casing with tri-cone bit - no recovery

11.0-29.5', lt gray-grn, bleached, welded, coarsely lithic tuff with dk gray silic, angular frags and propyl lithic frags to 15.8'. Sheared tuff to 29.2'. Gray gouge zone to 29.5'

29.5-32.2', massive white qtz, broken w/ clay + limon + goeth on fracts, str silica-flooding on vein margins

32.2-37.5', 1t blue-grn tuff. Sheared 32.2-35.6', gray, glassy qtz veins w/ wk patchy silic on borders. Wk, irreg qtz stkwk 35.6-37.5', wk limon on fracts

37.5-41.2', gray gouge zone. Wk pervasive limon + jaros stain

41.2-47.1', olive-grn to md gray-grn tuff. Wk to md stkwk of white, granular qtz veins to 43.6'. Sheared gouge zone 43.6-44.1' with 2-3% py.

47.1-50.3', bright blue-grn, silic tuff; mod stkwk, 1-3% py, str limon + jaros on fracts

50.3-71.2', Med gray-grn, altered, welded, coarsely lithic tuff. Zone of qtz stkwk veining, wk to str; vuggy, granular, with vug-filling barite or gypsum, up to 1/2". 60.0-68.1', qtz + clay veins. 68.1-71.2', wk qtz ± barite ± clay veins. Wk limon + goeth on fracts.

58.3-60.0', 1-3% dissem py in veins and walls. <1% py to 71.2'

67.0', dk gray qtz vein cut by white qtz vein
71.2-72.7', sharp irreg contact to tan tuff w/ 2½ py
72.7-76.2', bleached, lt grn-gray, altered tuff, wk granular qtz veining
76.2-79.3', purple-brn, altered tuff. Tr propyl of lithic frags. Minor white clay veins
79.3-89.7', sharp gradational contact to lt grn-gray, bleached, altered, welded, lithic tuff. Mod fract'g. Wk clay veining

89.7-92.2', zone of massive, yellow-grn clay, locally shows shearing
92.2-106.0', sharp, gradation to dk purple, mod altered tuff. Wk propyl of lithic frags. Bleached remnants of biotite flakes
96.0-96.8', sharp irregular contacts to olive-grn str altered tuff with high clay content

106.0-119.5', lt gray, bleached, mod altered, welded, coarsely lithic tuff, with yellow-grn propyl lithic frags. Bleached remnants of biotite flakes in tuff matrix
111.5', cream-colored clay veinlet

119.5-125.0', sharp contact, med gray, wkly altered tuff. Slightly bleached biotite flakes. Minor yellow clay veins, tr red, clay + hem veins
125.0-126.3', sharp contacts, fault, hem clay gouge
126.3-149.8', med gray, mod alt'd, welded, coarsely lithic tuff. Wk propyl of lithic frags. Wk qtz stk, qtz veining to 141.5', granular, colorless qtz ± limon ± chlorite. 136-141.5', qtz + clay veins with granul text. 136-149.8', clay veining increases, massive soapy, gray veins. 141.5-149.8', decreasing alter'n and appearance of gray bleached remnants of biotite flakes.
### DESCRIPTIVE GEOLOGY

<table>
<thead>
<tr>
<th>INTERVAL</th>
<th>COMMENTS</th>
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</thead>
<tbody>
<tr>
<td>149.8-151.6'</td>
<td>sharp contacts, fault, gray gouge zone</td>
</tr>
<tr>
<td>151.6-152.8'</td>
<td>med gray, altered tuff, minor qtz</td>
</tr>
<tr>
<td>152.8-174.6'</td>
<td>lt gray, bleached, altered, welded, coarsely lithic tuff</td>
</tr>
<tr>
<td>152.8-154.2'</td>
<td>wk clay veining</td>
</tr>
<tr>
<td>154.2-159.2'</td>
<td>wk yellow and red, clay + qtz + py + FeOx veins</td>
</tr>
<tr>
<td>159.2-162.1'</td>
<td>tr qtz + clay, chalcedonic veins</td>
</tr>
<tr>
<td>165.9-174.6'</td>
<td>wk, thin clay + FeOx veins</td>
</tr>
<tr>
<td>174.6-186.0'</td>
<td>med gray, wkly altered, welded, coarsely lithic tuff. Becomes med gray-grn at 179.2-186.0'. Wk clay + hem/clay/calcite + adularia veinlets at 186.0'. 1/32&quot; thick, granular qtz veins, 184.0-186.0</td>
</tr>
<tr>
<td>178.0'</td>
<td>calcite + adularia vein</td>
</tr>
<tr>
<td>183.0'</td>
<td>calcite + adularia vein</td>
</tr>
<tr>
<td>186.0-187.3'</td>
<td>bleached to lt gray color;</td>
</tr>
<tr>
<td>187.3-188.3'</td>
<td>sharp contact, fault, gray gouge</td>
</tr>
<tr>
<td>188.3-208.7'</td>
<td>med gray, str altered, welded, coarsely lithic tuff. Str qtz stkwk and bx filling. Qtz + adularia + py, glassy, chalcedonic to 197.0'. Qtz stkwk decreases to mod at 197-198.3'. Fault with gray gouge 198.3-198.6'. Tiny calcite veinlets 198.6-208.7'.</td>
</tr>
<tr>
<td>208.7-211.7'</td>
<td>sharp gradational contact to (cont'd)</td>
</tr>
</tbody>
</table>
## Descriptive Geology

<table>
<thead>
<tr>
<th>Depth Interval</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>211.7-220.6'</td>
<td>dk red-brn, altered, welded, coarsely lithic tuff</td>
</tr>
<tr>
<td>220.6-228.2'</td>
<td>dk red-brn, mod altered, welded, coarsely lithic tuff with wk propyl of lithic frags. At 225.1' a 1&quot; wide yellow, white and red qtz + clay ± hem ± limon vein, vuggy, glassy, chaledonic</td>
</tr>
<tr>
<td>228.2-246.4'</td>
<td>mde gray, str altered, wkly bleached, same as 188-208', except no veining. Wk local, dk gray silic patches 2-3&quot; wide. Wk clay veining</td>
</tr>
<tr>
<td>246.4-266.0'</td>
<td>dk red-brn, mod altered, welded lithic tuff same as 220-228'. Bleached remnants of biotite flakes. 262', minor calcite veinlet</td>
</tr>
</tbody>
</table>
DESCRIPTIVE GEOLOGY

Wk brecc' n and silic assoc w/ mod qtz stkwk
140.5', veining becomes weaker
143.8-147.5', pervasive limon stain on fracts
145.8', 2'' thick massive clay seam

147.5-173.0', same gray, bleached tuff. Wk limon on
fracts. Qtz is vuggy, granular type to 160.4'. Qtz
± hem ± limon at 160.4-164.5'
164.5-173.0', bleached remnants of biotite flakes

173.0-181.3', Fault. Lt gray gouge zone to 178.1'.
1% dissem py. Sharp contact. 178.1-181.3', dk gray,
variably silic, mod bx, str stkwk veined zone w/
2% py.

181.3-201.3', unaltered dike, sharp contact, fine-
grain ed, black basaltic dike, str fracts with mod
limon stain. Limon becomes heavy on fracts and
pervasive in rock at 184.1-192.5'.
184.0', white calcite amygdules and thin vlets
192.5-201.3', dike unstained, fresh

201.3-207.7', dk grn-gray, altered, welded, coarsely
lithic tuff w/ propyl of lithic frags.
201.3-202.6', mod qtz + hem stkwk veins w/ wk bx
textures
207.7-211.4', sharp gradation, med gray, alt'd (cont'd)
DESCRIPTIVE GEOLOGY

72.2-82.1', gray-grn sheared tuff. Wk to mod limon on fracts. Bleached to lt gray at 78.0-80.2'. Strongly silica-flooded 79.4-80.2'. Fault w/sheared gray gouge at 80.2-82.1'.

82.1-93.7', sharp contact to med gray to med grn-gray, altered, welded, coarsely lithic tuff. Sheared tuff w/sharp contacts 85.7-87.5'
87.5-91.5', qtz veins, 3/8", w/silic assoc, tr py 91.5-93.7', mod goeth and limon on fracts

93.7-96.3', Fault. Lt grn-gray, bleached, weathered-massive clay, mod to hvy lim + goet + MnO2 on fracts
96.3-99.0', med gray tuff, same as 82.1-93.7' sheared at 97.5-98.3' w/mod lim + goet + MnO2 stain

99.0-110.5', grades to bleached, lt grn-gray tuff. Wk limon on fracts. Wk clay veining. Wk stkwwk w/assoc. silic on vein borders at 103.0-104.5. Vuggy, white granular qtz. Single 3/8" gray qtz vein at 109.0'. Tr py to 110.0'.

110.5-118.0', grades to lavender, altered, welded, coarsely lithic tuff. Incr hem in matrix. Grades into bleached, lt gray tuff with wk silic assoc w/clay > qtz stkwwk veins at 112.3-118.0'

118.0-128.8', sharp contact to lavender, altered, welded, coarsely lithic tuff. At 119.1' becomes bleached gray tuff, w/pervasive wk limon on fracts.
119.1-121.3', minor clay + qtz veins
121.3', pink alunite (?) patch
121.3-128.8', wk clay vein, 127.8', wk qtz veining

128.8-135.1', same bleached, gray tuff as 119-128', except silic and bx assoc w/mod granular qtz stkwwk to 131.3'. 1-2% dissem py in walls and veins

135.1-147.5', same bleached, gray tuff, abrupt appearance of glassy, chaled qtz veins rather than granular
135.1-136.9', 1-3% dissem cu (cont'd)
Set casing with rock bit - no recovery

13.0-22.8', lt gray, altered, welded, coarsely lithic tuff, with wk propyl of lithic frags. Wk MnO₂ and limon on fracts. Sheared from 21.3-22.8'.

22.8-30.2', grades to pale blue-grn, soapy-textured, altered tuff. Wk limon on fracts. Local silic and wk qtz veining at 25.8-26.1'. Fault, gray gouge at 26.1-28.0'.

30.2-32.6', sheared, lt gray, bleached tuff, fract'd

32.6-37.5', same as 28-30' except tr py, wk jarosite stain on fracts

37.5-38.6', lt grn-gray, sheared, alter'd tuff, tr py

38.6-62.5', bright blue-grn, altered, welded, coarsely lithic tuff, becomes lt blue-grn with depth, alternating wk to mod qtz stkwk veining, very vuggy, white, granular qtz.

38.6-42.6', heavy clay + 1 sm + hem on fracts

42.6-45.1', qtz veins up to 5/8' thick

51.1', white qtz vein w/ dk grn chlorite inclusions

54.6-59.2', sheared tuff

59.2-61.9', minor qtz veins, up to 1' wide

62.5-72.2, med grn-gray, alt'd, welded, coarsely lithic tuff, becomes gray-grn at 70.9'. 64.4-66.7' and 69.1-70.9', str bx & silic assoc w/ stkwk. 70.9-72.2, wk clay & harilne qtz veins
DESCRIPTIVE GEOLtGy

welded, coarsely lithic tuff w/ wk limon on fracts 211.4-215.0', grades into red-brn, fresh, welded, coarsely lithic tuff w/ black unalt'd biotite flakes
1984 PAIUTE DRILLING

DRILL LOG EXPLANATION

VEINING

Qtz veining
Clay veining
Calcite veining
Pyrite veining
Weak stockwork veining
Moderate stockwork veining
Strong stockwork veining

STRUCTURES

Fractures
Flow foliations
Faults
Shearing
Contacts

ALTERATION

Weak
Moderate
Strong