

LITHOLOGIC LOG

Project: McCoy864-19Elevation: 5160

Date Drilled: _____

NWNE S2 T23N R40E

Depth (m)	Description
0 - 3	Alluvium
3 - 14	Pink to buff brown crystal tuff with numerous gray to black vitrophyre fragments. Moderately welded.
14 - 27	Buff to gray crystal tuff composed of 12% feldspar crystal and 8% biotite crystals in a well indurated groundmass.
27 - 36	Altered crystal tuff.
36 - 49	White, poorly welded to unwelded ash.

LITHOLOGIC LOG

Project: McCoy

864-20

Elevation: 5305

Date Drilled: _____

SESE Sec. 11 T23N R40E

Depth (m)	Description
0 - 30	Pinkish brown crystal tuff with crystals of biotite and feldspar, vitrophyre fragments in a well indurated maxtrix.
30 - 49	Weakly welded, slightly altered to clay crystal tuff.

LITHOLOGIC LOG

Project: McCoy864-21Elevation: 5500

Date Drilled: _____

SWNE Sec. 33 T23N R40E

Depth (m)	Description
0 - 3	Alluvium.
3 - 10	Weathered crystal tuff.
10 - 30	Weakly welded pinkish brown crystal tuff composed of biotite and feldspar fragments in ashy matrix.
30 - 49	Welded crystal tuff - pink to brownish gray with considerable fragments of vitrophyre.

LITHOLOGIC LOG

Project: McCoy

864-22

Elevation: 5460

Date Drilled: _____

NWNW Sec. 3 T22N R40E

Depth (m)	Description
0 - 24	Pink to pinkish brown crystal tuff somewhat weathered and iron stained.
24 - 37	Light gray to buff, poorly welded crystal tuff with clay alteration of the matrix.
37 - 48	Slightly more clay alteration of the crystal tuff.

LITHOLOGIC LOG

Project: McCoy

864-23

Elevation: 5000

Date Drilled: _____

SWSE Sec. 33 T24N R40E

Depth (m)	Description
0 - 48	Alluvium - interbedded sand, gravel.

LITHOLOGIC LOG

Project: McCoy

864-24

Elevation: 4880

Date Drilled: _____

SWSW Sec. 33 T24N R40E

Depth (m)	Description
0 - 34	Alluvium.
34 - 40	Weathered, buff to white crystal tuff.
40 - 48	Buff to white crystal tuff.

LITHOLOGIC LOG

Project: McCoy

864-25

Elevation: 4750

Date Drilled: _____

SENW Sec. 5 T23N R40E

Depth (m)	Description
0 - 3	Alluvium.
3 - 48	Buff to pinkish tan crystal tuff with crystal fragments of biotite and feldspar. Several apparent flow units.

LITHOLOGIC LOG

Project: McCoy

864-26

Elevation: 4360

Date Drilled: _____

NESE Sec. 34 T24N R39E

Depth (m)

Description

0 - 48

Tuffaceous younger sediments - probably in part lacustrine.

LITHOLOGIC LOG

Project: McCoy

864-27

Elevation: 4460

Date Drilled: _____

NWNW Sec. 12 T23N R39E

Depth (m)	Description
0 - 4	Alluvium.
4 - 20	Weathered pinkish brown crystal tuff.
20 - 48	Pinkish brown crystal tuff.

LITHOLOGIC LOG

Project: McCoy

864-28

Elevation: 4560

Date Drilled: _____

SWNW Sec 7 T23N R40E

Depth (m)	Description
0 - 3	Alluvium.
3 - 48	Dense gray limestone.

LITHOLOGIC LOG

Project: McCoy

864-29

Elevation: 4800

Date Drilled: _____

SESW Sec. 8 T23N R40E

Depth (m)	Description
0 - 3	Alluvium.
3 - 48	Dark gray limestone - very dense minor oxidation at 34 m.

LITHOLOGIC LOG

Project: McCoy864-31Elevation: 4720

Date Drilled: _____

NWSE Sec. 13 T23N R39E

Depth (m)	Description
0 - 3	Alluvium.
3 - 15	Weakly welded crystal tuff.
15 - 20	Moderately welded crystal tuff.
20 - 30	Weakly welded crystal tuff with some clay alteration.
30 - 48	Pinkish brown crystal tuff with crystals of biotite and feldspar in well welded matrix.

LITHOLOGIC LOG

Project: McCoy

864-33

Elevation: 5120

Date Drilled: _____

NWNW Sec. 20 T23N R40E

Depth (m)	Description
0 - 6	Alluvium.
6 - 27	Pinkish brown crystal tuff.
27 - 37	Mottled gray limestone with veinlets of calcite - considerable hematite stain.

LITHOLOGIC LOG

Project: McCoy

864-34

Elevation: 5240

Date Drilled: _____

SENW Sec. 29 T23N R40E

Depth (m)	Description
0 - 6	Alluvium.
6 - 50	White crystal tuff - weakly welded.
50 - 90	Gray crystal tuff - welded to considerable degree.

LITHOLOGIC LOG

Project: McCoy

864-39

Elevation: 5160

Date Drilled: _____

NWNW Sec. 31 T23N R40E

Depth (m)	Description
0 - 6	Alluvium.
6 - 20	Weathered pinkish brown crystal tuff.
20 - 40	Gray, somewhat iron stained crystal tuff with crystals of biotite and feldspar in a matrix of welled ash.
40 - 48	Pinkish brown crystal tuff - moderately welded matrix.

LITHOLOGIC LOG

Project: McCoy

864-40

Elevation: 5580

Date Drilled: _____

SWSW Sec. 33 T23N R40E

Depth (m)	Description
0 - 6	Alluvium.
6 - 30	Pinkish brown to red brown crystal tuff with crystals of feldspar and biotite, some fragments of pumice or vitrophyre in a welded matrix.
30 - 48	Gray crystal tuff - moderately welded.

LITHOLOGIC LOG

Project: McCoy

864-41

Elevation: 5440

Date Drilled: _____

NWNW Sec. 6 T22N R40E

Depth (m)	Description
0 - 10	Alluvium.
10 - 20	Weathered pinkish brown crystal tuff.
20 - 48	Pinkish brown crystal tuff.

LITHOLOGIC LOG

Project: McCoy

864-46

Elevation: 5560

Date Drilled: _____

NENE Sec. 7 T22N R40E

Depth (m)

Description

0 - 3

Alluvium.

3 - 48

Red brown crystal tuff with considerable vitrophyre fragments.

LITHOLOGIC LOG

Project: McCoy

864-47

Elevation: 5800

Date Drilled: _____

NESE Sec. 8 T22N R40E

Depth (m)	Description
0 - 3	Alluvium.
3 - 40	Reddish brown crystal tuff - weathered and slightly altered to clays - may only reflect devitrification of glass.
40 - 50	Crystal tuff.

LITHOLOGIC LOG

Project: McCoy

864-48

Elevation: 5820

Date Drilled: _____

SESW Sec. 9 T22N R40E

Depth (m)	Description
0 - 9	Alluvium.
9 - 20	Gray-pink crystal tuff with pumice and vitrophyre fragments - moderately welded.
20 - 36	Pinkish brown crystal tuff - strongly welded.
36 - 48	Pinkish brown crystal tuff slightly less welded than above.

LITHOLOGIC LOG

Project: McCoy

864-49

Elevation: 5960

Date Drilled: _____

SWSE Sec. 17 T22N R40E

Depth (m)	Description
0 - 3	Alluvium.
3 - 10	Weathered buff to reddish brown crystal tuff.
10 - 26	Pinkish gray crystal tuff - moderately well welded.
26 - 48	Crystal tuff with varying alteration to montmorillonite and celadonite.

LITHOLOGIC LOG

Project: McCoy

864-50

Elevation: 5740

Date Drilled: _____

SESE Sec. 13 T22N R39E

Depth (m)

Description

0 - 3

Alluvium.

3 - 49

Pinkish gray crystal tuff.

LITHOLOGIC LOG

Project: McCoy

864-51

Elevation: 5500

Date Drilled: _____

SESE Sec. 24 T22N R39E

Depth (m)	Description
0 - 6	Alluvium.
6 - 26	Weathered buff to gray poorly welded crystal tuff.
26 - 49	Pinkish brown crystal tuff - moderately well welded.

LITHOLOGIC LOG

Project: McCoy

864-52

Elevation: 5440

Date Drilled: _____

NWSW Sec. 26 T22N R39E

Depth (m)	Description
0 - 10	Alluvium.
10 - 30	Pinkish brown crystal tuff - moderately well welded.
30 - 49	Buff to white crystal tuff.

LITHOLOGIC LOG

Project: McCoy

864-53

Elevation: 4870

Date Drilled: _____

NENE Sec. 8 T23N R40E

Depth (m)	Description
0 - 10	Alluvium.
10 - 30	Clayey - slightly altered crystal tuff.
30 - 49	Weakly altered crystal tuff, minor silicification.

LITHOLOGIC LOG

Project: McCoyHole: 864-57 (66-8)Elevation: 5795Date Drilled: 16/3/80Location: NWSE Sec 8 T22N R40EMethod: rotary/airGeologist: Gross, Tower, Ciancanelli,
Pilkington

Gamma: _____

Depth (m)	Description
0-220	<p><u>Tertiary Volcanics</u></p> <p>Pinkish-gray, crystal-lithic ash flow tuffs. Crystal fragments of sanidine, quartz and biotite. Lithic fragments of ash flow tuffs and pumice.</p> <p>119 Trace of sulfides.</p> <p>198-201 Volcanic wacke conglomerate.</p> <p>201-220 Weakly altered with disseminated sulfides.</p>
220-311	<p><u>Favret Formation (Triassic)</u></p> <p>220-236 Black calcareous siltstone or silty limestone with considerable disseminated pyrite.</p> <p>236-241 Medium-gray fine-grained sandstone with calcareous cement. Sulfide veins.</p> <p>241-299 Dark-gray limestone cut by calcite veins containing some pyrite.</p> <p>299-311 Dark-gray to black calcareous siltstone.</p>
311-665	<p><u>Basal Conglomeratic Sandstone (Triassic)</u></p> <p>Medium-gray to light gray-white quartzite and interbedded conglomeratic quartzite. Some color variation due to oxidation state of iron.</p> <p>320 Veinlets of quartz and pyrite.</p> <p>340-378 Veinlets of quartz and sulfide.</p> <p>Below 418 the quantity of sulfide increases.</p> <p>472-493 Several zones of fault gouge.</p>

LITHOLOGIC LOG

Project: McCoyHole: 864-57 (66-8)

Elevation: _____

Date Drilled: _____

Location: _____

Method: _____

Geologist: _____

Gamma: _____

Depth (m)Description

665-765

Valmy Quartzite?(Ordovician)

Gray to grayish-red, fine-grained quartzite. The well rounded quartz grains are somewhat recrystallized and show well developed silica cement. Hematitic staining and/or micaceous material give rock a distinct sheen.

LITHOLOGIC LOG

Project: McCoy

Hole: 864-62 (38-9)

Elevation: 5168

Date Drilled: 21/5/81

Location: SESW 9 T23N R40E

Method: rotary air/foam

Geologist: Avery, Pilkington

Gamma: _____

Depth (m) Description

0-156

Basal Conglomerate Sandstone (Triassic)

Iron stained, orange to yellow-brown, fine-grained, well sorted sand with varying amounts of pebble clasts consisting of chert and quartzite in equal amounts. The clasts are subrounded to subangular.

41-44 Several silica veinlets - minor cinnabar.

97-100 Red siltstone.

106-110 Conglomeratic sandstone with small, well rounded clasts almost exclusively of gray chert. Silica veinlets minor cinnabar.

150-156 Basal conglomerate.

156-621

Havallah Formation (Permo-Pennsylvanian)

156-162 Gray chert and intraformational chert breccia cut by numerous pyrite filled fractures.

162-186 Gray-green and red siltstones with some gray cherts.

186-198 Gray chert and intraformational chert breccia with numerous pyrite filled fractures.

198-232 Red siltstones, green siltstones and minor gray chert.

232-256 Gray cherts with minor sulfides.

256-262 Red siltstones. Gray-green siltstones with minor gray cherts.

262-412 Gray-green siliceous siltstones, some cherts and intraformational chert breccia. Minor pyrite fracture fillings.

412-621 Red siltstones, minor gray-green siltstones and some gray cherts.

LITHOLOGIC LOG

Project: McCoyHole: 864-62 (38-9)Elevation: 5168Date Drilled: 21/5/81Location: SESW 9 T23N R40EMethod: rotary air/foamGeologist: Avery, Pilkington

Gamma: _____

Depth (m)	Description
0-156	<p><u>Basal Conglomerate Sandstone (Triassic)</u></p> <p>Iron stained, orange to yellow-brown, fine-grained, well sorted sand with varying amounts of pebble clasts consisting of chert and quartzite in equal amounts. The clasts are subrounded to subangular.</p> <p>41-44 Several silica veinlets - minor cinnabar.</p> <p>97-100 Red siltstone.</p> <p>106-110 Conglomeratic sandstone with small, well rounded clasts almost exclusively of gray chert. Silica veinlets minor cinnabar.</p> <p>150-156 Basal conglomerate.</p>
156-621	<p><u>Havallah Formation (Permo-Pennsylvanian)</u></p> <p>156-162 Gray chert and intraformational chert breccia cut by numerous pyrite filled fractures.</p> <p>162-186 Gray-green and red siltstones with some gray cherts.</p> <p>186-198 Gray chert and intraformational chert breccia with numerous pyrite filled fractures.</p> <p>198-232 Red siltstones, green siltstones and minor gray chert.</p> <p>232-256 Gray cherts with minor sulfides.</p> <p>256-262 Red siltstones. Gray-green siltstones with minor gray cherts.</p> <p>262-412 Gray-green siliceous siltstones, some cherts and intraformational chert breccia. Minor pyrite fracture fillings.</p> <p>412-621 Red siltstones, minor gray-green siltstones and some gray cherts.</p>

LITHOLOGIC LOG

Project: McCoyHole: 864-65 (25-9)Elevation: 5776Date Drilled: 3/5/81Location: NWSW S9 T22N R40EMethod: rotary air and/or mudGeologist: Avery, Pilkington

Gamma: _____

Depth (m)

Description

0- 5

Alluvium

5-494

Basal Conglomeratic Sandstone (Traissic)

White to gray-white, conglomeratic sandstone with variable iron staining from yellow-brown to red-brown to orange colored depending upon the degree of oxidation of the iron. The sandstone of the matrix is fine-grained, well sorted, well rounded while the clasts are subangular to subrounded and are composed of quartzite and chert.

494-605

Havallah Formation (Permo-Pennsylvanian)

494-500 Reddish-purple siliceous siltstones.

500-503 Fault zone?

503-530 Gray-green siltstones and cherts.

530-573 Gray-green cherts with some interbedded greenstones.

573-615 Gray-green cherts and interbedded purple siltstones.

LITHOLOGIC LOG

Project: McCoyHole: ~~1588~~ 864-78
26-8Elevation: 5760Date Drilled: 2/21/83Location: NWSWS8T22NR40EMethod: air/mud/rotaryGeologist: Bill Huntsman

Gamma: _____

Depth (m)	Description
0- 20 0 - 6	Ash fall tuffs - Medium reddish brown gray, hard, very fine grained, minor argillic alteration, minor quartz grains and ash rich in SiO ₂ .
20-60 6-18.2	Crystal lithic ash flow tuffs - Pinkish gray, crystal fragments of sanidine, minor quartz.
60-100 18.2-30.4	Ash fall tuffs - Light gray white, minor welded tuff as above, very fine grained.
100-140 30.4-42.7	Crystal lithic ash flow tuffs - Light white, abundant quartz, specks of biotite, possible glass shards.
140-200 42.7-60.9	Crystal lithic ash flow tuffs - Light gray white, very coarse, abundant quartz, minor material from the flow (sand and small gravels), trace sanidine.
200-250 60.9-76.2	Crystal lithic ash flow tuffs - As above with minor biotite, sanidine, abundant quartz, trace of a dirty looking mineral.
250-290 76.2-88.4	Crystal lithic tuffs - Light gray, moderate quartz, minor biotite, possible minor chloride in a thin zone, trace hemitite and minor alteration around some biotite flakes.
290-340 88.4-103.6	Crystal lithic tuffs - As above, very dirty gray.
340-410 103.6-125	Welded Ash flow tuffs - Dirty gray, minor sanidine, quartz and biotite (340-410 lost circulation, no samples).
410-480 125-146.3	Welded ash fall - Light pink gray and red brown, minor biotite, minor quartz, minor light green ash fall, very fine grained, slightly softer formation.
480-510 146.3-155.5	Welded ash fall tuffs - As above, variety of colors and layers, some slightly harder than others.

LITHOLOGIC LOG

Project: 864 (McCoy)

Hole: 864-82

Elevation: 5,220'

Date Drilled: March 26, 1981

Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec 34, T22N, R39E

Method: air/foam injection

Geologist: Mark Avery

Gamma: N/A

Depth (m)	Description
0-52m	Lacustrine sands and alluvial gravels. Composition is 50% sands and 50% gravels and pebble-sized clasts of volcanic (tuffs and flow-rocks); triassic conglomerate; cherts and siltstones of Havallah formation (unconsolidated alluvial sediments). Water entries were encountered at 18m and 46m (15 gpm).

LITHOLOGIC LOG

Project: McCoyHole: 864-88Elevation: 5435Date Drilled: 4-4-81Location: SWSE 25 T22N R39EMethod: rotary airGeologist: Deymonaz

Gamma: _____

Depth (m)	Description
0- 2	Alluvium - lt. reddish-brown to tan, sandy silt with subangular gravels of intermediate volcanics and minor limestones and cherts.
2-44	Welded Crystal Tuff - primarily lt. red with lesser amounts of lt. gray, hard, 15-30% phenocrysts (2-5mm) of feldspars (mostly altered to clays), smaller clear to milky anhedral quartz (5%), and trace of biotite, and small magnetite. Minor limonitic staining and manganese coatings along small fractures. Some of the larger anhedral, white material altered to clays may be relic pumice fragments.
44-78	Tuff - lt. pink to lt. gray tuff altered to montmorillonite clays. Firm when dry, swells and crumbles when wet. 5-20% small crystals of quartz (3-5%) biotite, magnetite, and altered plagioclase. Up to 20% of sample consists of crystal tuffs from above, amount decreases with depth.
78-82	Tuff - lt. pink to lt. gray, firm to hard, 2-3% clear anhedral quartz phenocrysts, trace of magnetite up to 1mm, and biotite 1-2mm. Groundmass of fine granular tuffaceous material and altered feldspars. Limonitic staining common along small fractures and around some magnetite grains. Minor small (1-2mm) quartz filled veins.

LITHOLOGIC LOG

Project: McCoyHole: 864-89Elevation: 5400Date Drilled: 4-4-81Location: SWSW 31 T22N R40EMethod: rotary airGeologist: Deymonaz

Gamma: _____

Depth (m)	Description
0-49	Alluvium - tan, sandy silt with small angular to subangular gravels of volcanics and minor cherts and limestones. Too damp to drill dry at 9m. Predominantly gravels up to 10cm in upper 8m.
49-76	Welded Crystal Tuff - pink, hard, brittle, fine tuffaceous to aphanitic groundmass with 10-20% phenocrysts of biotite (1-3mm), clear anhedral quartz (1-3mm), feldspars (mostly altered) and trace of magnetite and hornblende. Considerable oxidation of magnetite and some biotite, and red iron staining along small fractures. Appears to be pervasively fractured. 20-30% of sample consists of uphole sluff.
76-84	Crystal Tuff - as above, except poorly, or non-welded, predominantly lt. gray to lt. pink.
84-95	Crystal Tuff - non-welded, soft tuffaceous matrix washes out of cuttings leaving anhedral clear quartz, biotite, feldspars and lithic fragments.

LITHOLOGIC LOG

Project: McCoyHole: 864-90Elevation: 5720Date Drilled: 3-27-81Location: NWNW 32 T22N R40EMethod: rotary airGeologist: Deymonaz

Gamma: _____

Depth (m)	Description
0- 9	Alluvium - med-brown, sandy silt with subrounded to subangular gravels of latitic volcanics, siltstones, and limestones.
9- 15	Latite Tuff - red to lt.-gray, argillized and less commonly silicified. 5-10% phenocrysts of clear tabular sanidine, squarish clear to milky k-spar, and minor biotite and quartz in tuffaceous matrix. Trace of small lithic fragments of volcanic rock and black siltstone. Some samples contain sufficient quartz to be classified as rhyolite.
15- 25	Crystal-Lithic Tuff - white, firm to hard, 5-15% xls of clear anhedral quartz (much of quartz has pale pink hue) 2-5mm, fresh appearing black to green chloritized biotite, 0.5-2.0mm, and small rounded to subangular dk. gray to lt. gray lith fragments of volcanics and black siltstones, in mottled white to pale greenish aphanitic groundmass. Minor small clear quartz filled fractures. White mottled appearance due to pseudomorphs of feldspars and/or altered pumice fragments.
25- 28	Virtrophyre - black, glassy, with 50-75% large phenocrysts (2-5mm) of clear anhedral quartz, black euhedral biotite and clear to white fresh to altered feldspars in black glassy groundmass. Possibly base of above unit.
28- 34	Xl-Tuff - lt.-med-gray, soft argillized tuffs. 5-10% xls of quartz and altered biotite and feldspars. 2-5% small aphanitic lithic fragments.
34- 67	Chert (Fanglomerate?) - buff to lt. greenish-gray and pale red, finely granular chert. Color varies considerably in each sample. Some rounded weathered surfaces observed. May be fairly well indurated fanglomerate (penetration 80-100 ft/hr with mill tooth bit and air). Cherts are commonly fractured and iron-stained, minor thin manganese deposits along fractures.
67-137	Calcareous Siltstone - black, effervescence vigorously in HCl. Minor small veins (1-3mm) of clear to white calcite. Trace of small (0.1-0.5mm) disseminated pyrite. Firm to hard, drills easily with mill tooth bit (60-80 ft/hr) and commonly breaks along poorly defined laminations.

LITHOLOGIC LOG

Project: McCoyHole: 864-92Elevation: 6080Date Drilled: 4-6-81Location: SESE 3 T21N R40EMethod: rotary airGeologist: Deymonaz

Gamma: _____

Depth (m)	Description
0-30	Alluvium - tan, sandy-silt with angular to subangular gravels of chert, volcanics and limestone.
30-46	Fanglomerate - tan to red cherts with considerable variation within each sample, much iron-staining along fractures. 5-20% fine siliceous sandstones. 10-50% of sample volcanics and cherts, probably from upper 30m of hole. Increasing amounts of tuffs below 40m.
46-82	Tuff - reddish-brown, firm to hard, matrix material argillic alteration to montmorillonite clays. 20-25% small (0.5-1.0mm) xls of white to clear tabular plagioclase altered to clays, and an undetermined amount of small quartz grains. Trace of large biotite phenocrysts and small magnetite. Manganese deposition on some small tight fractures. Tuff increasing in sample from below 46m to 61m where it comprises about 80% of sample.

LITHOLOGIC LOG

Project: McCoyHole: 864-93Elevation: 6030Date Drilled: 4-7-81Location: SWNW 35 T23N R40EMethod: rotary airGeologist: Deymonaz

Gamma: _____

Depth (m)	Description
0-28	Alluvium - tan, silt with angular gravels of sandstone, chert and volcanics. Increasing chert and sandstone with depth, possibly fanglomerate.
28-67	Alluvium/Crystal Tuffs - red to yellow-brown crystal tuffs in increasing amounts mixed with alluvium as above.
67-75	Crystal Tuff - med. gray to red to yellow-brown and firm as above. Altered groundmass of tuffaceous material and 10-15% crystals of altered feldspars and minor quartz, mostly less than 1mm. Minor large biotite, common manganese deposition along fractures, rare small magnetite.
75-80	Tuff - lt. gray, firm, brittle, granular mass of tuffaceous material and small (<0.5mm) crystals of quartz and altered feldspars with rare small biotite and magnetite. Manganese common along small fractures.

LITHOLOGIC LOG

Project: McCoy

Hole: 864-94

Elevation: 5830

Date Drilled: 4-7-81

Location: NWNE 26 T22N R40E

Method: rotary air

Geologist: Deymonaz

Gamma: _____

Depth (m)	Description
0-40	Alluvium - tan, sandy silt with angular gravels of chert with lessor amounts of limestones, quartzites, volcanics and fine argillaceous sandstones.
40-73	Qtz Latite Welded Tuff - hard, lt. gray to lt. pink, aphanitic tuffaceous matrix with 15-25% phenocrysts of altered feldspars, quartz, minor magnetite and rare biotite. Common manganese staining along small tight fractures. Color becoming more pink with depth.
73-82	Tuff - firm, pink similar to above except 5-10% phenocrysts.

LITHOLOGIC LOG

Project: McCoyHole: 864-95Elevation: 5500Date Drilled: 4-7-81Location: NENE 14 T22N R40EMethod: rotary airGeologist: Deymonaz

Gamma: _____

Depth (m)	Description
0-2.5	Alluvium - tan, sandy silt with angular gravels (3mm-5cm) of intermediate volcanics, black limestones and minor cherts.
2.5-61	Welded Crystal Tuff - quartz latite, hard, lt. pink aphanitic matrix with phenocrysts (1-4mm) of quartz, k-spar, and altered plagioclase comprising 15-30% of rock. Rare biotite, magnetite and hornblende. Common manganese deposition along small tight fractures. Rare, small lithic fragments.
61-79	Crystal Tuff - lt. gray to pink, firm-hard, groundmass of tuffaceous material, and small lithic fragments and quartz grains (<0.5mm). 15% large biotite phenocrysts (2-5mm) and smaller, altered feldspars, often apple green and translucent. Trace of magnetite.

LITHOLOGIC LOG

Project: McCoy

Hole: 864-96

Elevation: 5350

Date Drilled: 4-5-81

Location: NENW 11 T22N R40E

Method: rotary air

Geologist: Deymonaz

Gamma: _____

Depth (m)	Description
0-1.5	Alluvium - tan, sandy-silt with minor angular gravels of chert, limestone and volcanics.
1.5-4	Gravels - angular to subangular gravels of cherts, volcanics and limestone. Dry poorly consolidated.
4-29	Alluvium - as in 0-1.5m (hole very dry to 29m).
29-53	Chert or Fanglomerate - lt. greenish-gray, gray and red cherts pervasively fractured and iron-stained, considerable variation within each sample, very similar to fanglomerate material in 864-92.
53-95	Chert or Fanglomerate - as above, except predominately lt. gray and reddish.

LITHOLOGIC LOG

Project: McCoy

Hole: 864-97

Elevation: 5265

Date Drilled: 4-6-81

Location: NWSW 35 T23N R40E

Method: rotary air

Geologist: Deymonaz

Gamma: _____

Depth (m)	Description
0-55	Alluvium - tan, sandy silt with angular to subrounded gravels of chert and welded tuffs with lesser amounts of limestone and quartzite.
55-95	Tuff - latitic, hard, lt. gray to red, aphanitic groundmass with 15% phenocrysts of feldspars, minor quartz, trace of magnetite and biotite. Common manganese deposition along small tight fractures. <u>Note</u> - considerable uphole sluffing throughout hole, tuff comprises about 50% of cuttings in this interval but are broken and angular while gravels from alluvium are slightly rounded. May represent tuff unit or larger tuff boulders.