CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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A.E.C. #6 YELLOW BASIN
MOHAVE CO., ARIZONA

Core Descriptions

YELLOW BASIN PROSPECTS

Arkla Exploration Co.
#6
Yellow Basin

Core Description

Arkla #6 Yellow Basin

Core Description

9-17-66

MoS_2 MINERALIZATION INTERVALS IN YB-6

DEPTH	ROCK TYPE
86'	SERICITE
89'	QTZ 1/4" SEAM
90'	ORTHOCLASE
91	"
98	"
100'	"
103	"
105-106	IN SERICITE NO MoS_2 BUT CHALCO & MALACHITE
109	MoS_2
109.5	" IN ORTHOCLASE
127	" "
129.5	" "
136.5	" "
144-145	ALONG JOINT
190-191	" "
191-191.4	ALONG FRACTURE
191.4-200	TRACES THRU-OUT
210-211	
233	
240	
246	
260	
270	
272-276	
294-298	
305	
310-313	
320-325	
332	
337-341	IN ORTHOCLASE ALONG JT PLANES
345-345.5	"
347	"
358	"
361.5	"
367.5-368.5	
371	
389.5-390.5	

YB-6

392	IN ORTHOCLASE
393	" "
399	" " ALONG 80° JT
405-406	w/ 1/4" SERICITE
409-411	w/ 1/2" QTZ STRINGER
416	
416-419	
430	
452.5	ORTHOCLASE ALONG 70° JT PLANE
453	QTZ & ORTHOCLASE
459	" " ALONG 70° JT PLANE
480	" "
494	" "
497	" "
501	ORTHOCLASE
504-505	QTZ
507-507.5	ORTHOCLASE
509	" ASSOCIATED w/ BORNITE
510	ORTHOCLASE
517	" ASSOCIATED w/ CHALCOPYRITE
522	ORTHOCLASE
522.5	"
524	"
526	"
527.5	"
530	" ALONG 70° JT
532	"
CK for ASSAY 553-565	"
567-570	"
574-584	"
576	QTZ
587	"
588-593	QTZ
594-601	ORTHOCLASE DISSEMINATED

666 - 607.5	DISSEMINATED - PREDOMINENTLY PINK ORTHOCLASE
611 - 612	" " " "
616 - 622	
623 - 623.3	
627 - 627.3	
632 - 632.4	
635 - 636	
640 - 641.4	
653.1 - 654.2	
658.5 - 658.7	
660 - 660.5	
662 - 662.3	
668 - 668.4	
673.4 - 674.0	
680.5 - 681	
694	
695	
710.6 - 711.4	
717.4 - 717.9	
731.3 - 731.6	
752 - 752.7	
753.8 - 754.4	
799.8 - 800	
830.4 - 831.0	
832.2 - 832.4	
833.7 - 835.4	
877 - 877.2	
890.8 - 892	
896 - 901.6	
907.5	
922 - 923	
924.4 - 925.6	
970.5	
981.5 - 983.5	
989.5 - 990.9	

992¹ - 993⁰
1064-1012
1020
1032 -1034⁶ ORTHOCLASE GRANITE & SERICITE
1036³ - 1036⁵
1037² - 1037⁶
1044³ - 1044⁶
1054 - 1313 DISSEMINATED
1328⁸ - 1328⁹
~~1331 - 1331⁸~~
1352⁵ - 1352⁶ ALONG FAULT PLANE
1363 IN QTZ
1404⁹ DISSEMINATED
1451 - 1453⁵
1467⁸ - 1468
1468 - 1469
1471 - 1472
1480¹ - 1480⁶
1446⁹ - 1453
1522 - 1525
1526
1528
1529⁷
1531-1534
1620-1646 ASSOCIATED W/CHALCOCITE AROUND PYRITE
1631-1632
1641-1642
1649-1649⁵
1650-1650³
1656 ASSOCIATED W/ARGENTITE
1669-1669⁵
1683⁶ - 1684
1685¹ - 1685⁴
1695⁵ - 1695⁷
1704

YB#6 Spudded 7/23/66

YB #6

Loc: 1300'E W/L; 75'S N/L Sec 29 T1N-16W

Described 7/25/66

0-15' No Recovery

15' to 25' Rec: ±10'

GRANITE Highly weathered, limonite-stained - vugs and fractures

Scattered: coarse sericite flakes throughout

18.5 to 19.0 0.5' foot wh. qtz, vuggy, limonite stained

Note: Much tan-yellow staining in some isolated vugs

NX-CORE

7-26-66 YB #6

(Spls picked up evening 7-25-66 @ Drill) to 172.2; Spls to 191.4 delivered 7/26/66 @ 3:00pm

Rec:

25-34 $\frac{9}{9}$ = 100%

34-42 $\frac{7.2}{8}$ = 90%

42-47 $\frac{4.2}{5}$ = 84%

47-52 $\frac{5}{5}$ = 100

52-62 .8+ $\frac{9.8}{10}$ = 98%

62-64 = 100%

64-74 = 100%

74-84 6.8+3.1 $\frac{9.9}{10}$ = 99%

84-88 $\frac{4}{4}$ = 100%

88-91 $\frac{2.7}{3}$ = 90%

91-101 $\frac{10}{10}$ = 100%

101-109 7.8+ $\frac{7.8}{8}$ = 98%

109-114 $\frac{5}{5}$ = 100

114-124 7.3 2.5 $\frac{9.8}{10}$ = 98%

124-134 $\frac{10}{10}$ = 100

134-143 1.9+7.3 $\frac{9}{9}$ = 100%

143-153 = 100%

153-163 = 100%

163-164 = 100%

164-174 7.7+ 1.4 $\frac{9.1}{10}$ = 91%

25-136 Biotite-granite, weathered, highly limonite stained on fractures and joints, and in vugs.

Pk orthoclase inclusions in several zones w/ much sericite.

Most Prominent Joints at 60° to 70°

0.5' - Quartz vein @ 56.5-57.0 w/ crse sericite sidewalls } Cross core @ about 70°

0.5 - " " @ 64' to 64.5 (shattered

1/2" Qtz vein, nearly longitudinal 73' to 74' X-'s core.

All highly limonite stained.

Joints range from 65° to about vertical, same w/ qtz and sericite seams which often follow joints. All highly limonite stained.

Occ. Flaorite X1 w/ vuggy qtz veinlet & sericite

136-191.4 Decreasing limonite - hence gray Biotite granite w/ inclusions of ortho-clase along joints

MINERALIZATION: Note Pyrite, f. xln starts at about first show of MoS_2 - Core still hi limonitic to 136

86' 65° joint w/ thin sericite & few scattered pin-head MoS_2.

89' 80° irreg. qtz seam about 1/4" thick w/ scattered match-head MoS_2 on HW.

90' 2 pin-pt MoS_2 in Orthoclase

91' " " " " along joint

98' scattered pin-pt MoS_2 w/ f. pyrite in broken brecciated zone

100' 1 pin-pt in ortho.

103 Several match-head MoS_2 on near-vert seam in orthoclase.

105-106 Dark sericite zone w/ Chalcopyrite, Malachite, No MoS_2 noted; 109 pin head MoS_2 on near-vert fracture

Rec: Cont

174 - 184 = 100%

184 - 191 = 100%

7/7

191 - 195

.4 + 3.6

4/4 = 100%

Min. Cont.

109.5 2 pin head MoS_2 in ortho. adjacent to 85° seam w/ qtz vein let

127 1 pin head MoS_2 in ortho

129.5 1 " " " " "

136.5 1 " " " " "

144 - 145 joint nearly parallel core w/ pin point specks MoS_2

190 - 191 long joint at about 85° w/ smear of MoS_2

191 - 191.4 scattered pin head MoS_2 on irregular fracture

Described 8-1-66

YB #6

191.4 to 334

REC:

195 to 202

$\frac{7}{7}$ = 100%

202 - 205 = 100%+

205 - 215 = 100%

215 - 217 = 100%
.7

217 - 223 = 100%
$\frac{6.5}{6}$

223 - 225 = 100%
1.1+

225 - 232
$\frac{7}{7}$ = 100%

232 - 240 = 100%
.8+

240 - 241 = 100%

241 - 244
.5 + 2.1
$\frac{2.6}{3}$ = 87%

244 - 251 = 100%
$\frac{}{7}$

251 - 260
$\frac{8.1}{9}$ = 90%

260 - 264 = 100%

264 - 268 = 100%
$\frac{}{4}$

268 - 274
1.4 + 4.6 $\frac{6}{6}$ = 100%

274 - 284
$\frac{9}{10}$ = 90%

284 - 290
$\frac{}{6}$ = 100%

191.4 to 217

GRAY Biotite GRANITE, coarse textured Highly vuggy w/ re-xln feldspars? and some quartz lining cavities. Some pale pink orthoclase. Joints range from about 60° to near-parallel w/core. Much coarse sericite (muscovite), throughout, but most abundant (poss 30%) @ (214 to 215)

217 - 290

As above but w/ less mineralization 229 - 232 Dense, gray quartz inclusion w/o Mineralization

241 - 244 - argillized biotite granite, soft and fragmented.

@ 261 some fluorite w/ pink orthoclase-granite

290 - 334

As above, but increase in mineralization Vuggy. Argillized and soft 316 to 320 Much crse sericite & some fluorite (crse, 1/8" xls.) along near-vert. joint 320 - 325.

REC

290 - 298.5 = 100%
8+
298.5 - 303.5 = 100%
303.5 - 312 = 100%
8.5
312 - 314 = 100%
314 - 317 = 100%
317 - 320 = 100%
320 - 324 = 82%
$\frac{324}{10}$ - 334 = 100%

Mineralization :- traces of MoS_2, v/fine specks, can be found in about every 1-ft interval of core, w/ some pyrite. Best shows MoS_2: 200' Several (7 or 8) match-head size in 80° quartz-orthoclase veinlet.

210 to (211) scattered numerous pin-pt size MoS_2 in irreg. pk orthoclase - qtz seam @ 80°

233 - 1 pinhead in ortho; 240 Smear on 60° joint. (OVER)

246 Smear on 60° joint; 260 60° joint w/ few pinheads in ortho.

270 - Sev. pinheads w/ortho incl. ; 294 to 298 Many dissem match head size w/ crse sericite & ortho along 80° joint

to 272 - " " " " along 80° joint
276

DESCRIBED 8-2-66 YB #6

334 to 444.4 = delivered eve. 8-1-66

334 to 377 — GRAY Biotite granite, largely invaded by pink to flesh colored orthoclase and sericite. Invasion usually outward from high-angle joints and may extend for distance of 2 or more feet of core. Estimated that orthoclase, etc constitutes 30% of total interval 334 to 377. Core quite vuggy as before, some vugs 1"x1/4".

377 to 383 — Soft argillized granite, w/ fragmented including frags of orthoclase-granite. [Fault ZONE?]

383 to 444.4 — As 334 to 377 above. w/ soft argillized zone [Fault?] 396-398. Less vuggy in lower 40-feet.

MINERALIZATION (See NEXT Page)

Rec:

334-344 $\frac{9.4}{10}$ = 94%

344-354 $\frac{9.6}{10}$ = 96%

354-357 = 100%

357-364 $4+\frac{6.8}{7}$ = 97%

364-370 = 100%

370-378 = $\frac{7.3}{8}$ = 91%

378-384 $\frac{5.4}{6}$ = 90%

384-389 $\frac{4.9}{5}$ = 98%

389-392 $.9+1.7=\frac{2.6}{3}$ = 88%

392-398 = 100%

398-405 = 100%

405-412 = $\frac{6.4}{7}$ = 97%

412-421 $4.3+4=\frac{8.3}{9}$ = 92%

421-424 = 100%

424-432 $\frac{7.6}{8}$ = 95%

432-436 $\frac{4}{4}$ = 100%

436-444 $7\frac{5}{8}$ = 94%

444-450 $.5+4.5$ = 5/6 = 84%

MINERALIZATION

* 337 to 341 - 4 feet generally pink orthoclase and sericite w/ scattered pin-pt to match-head size MoS_2 & pyrite, most prominent along joint planes at about 60°

345-345.5 80° joint w/ few pin-pt. MoS_2 w/ sericite and some pyrite.

347 pin to match-head size MoS_2 scattered along 70° joint

358 1 pin-head on 60° joint

366.5 several pin-heads on 70° joint

367.5 to 368.5, few scattered pin head MoS_2 disseminated w/ orthoclase

* 371 several match-head MoS_2 w/ orthoclase

389.5 to 390.5 few pin head MoS_2 adjacent to 85° sericitized joint out in orthoclase

392 1 pin head MoS_2 in orthoclase

393 " " " "

399 Few scattered Pin Head MoS_2 along 80° joint in orthoclase.

405-406 Near vert Seam w/ 1/4" Sericite, few scattered pin heads MoS_2 out in orthoclase adjacent to seam

* 409 to 411 85° seam w/ 1/2" qtz stringer. Many match-head size MoS_2 adjacent to quartz, along sidewalls

416 Sericite joint, near vertical, w/ occ. pin head MoS_2

416-419 Quartz w/ sericite on sidewalls near vertical w/ scattered pin head MoS_2 out in orthoclase and in Quartz.

430 - pin-pt. MoS_2 in orthoclase.

* = Most evident shows.

YB #6

8-5-66

Cores Delivered 8-4-66

444.4 to 500.0'

Rec:

450-452
$\frac{1.8}{2} = 90$
452-453
$\frac{2.7}{1} =$
} 100%

453-459
$\frac{5.8}{6} = 97\%$

459-463
$\frac{3.7}{4} = 92\%$

463-468
$\frac{4.6}{5} = 92\%$

468-474
3.9+ 1.6 5.5 $\frac{5.5}{6} = 92\%$

474-480 $\frac{5.5}{6} = 92\%$

480-485 $\frac{5}{5} = 100\%$

485-487 = $\frac{1.5}{2} = 75\%$

487-489 = $\frac{1.8}{2} = 90\%$

489-494
$\frac{5}{5} = 100$

494-500
$\frac{6}{6} = 100\%$

444.4 to 446.	GRAY Biotite GRAN., Hard, tight, w/ few orthoclase inclusions.
446 to 449	GRAY altered (argillized) biotite granite, quite soft
449 to 452	GRAY, HARD GRAN as interval above 444.4-446.
452-498.7	Biotite GRANITE w/ several inclusions of orthoclase (along joints) w/ quartz. and minor amount of sericite. Somewhat vuggy but much less so than up the hole.
498.7-499.5	Quartz, gray w/o Sulfide mineralization
499.5-500	GRANITE as 452-498.7 (above)

MINERALIZATION

452.5 - 1 pinpoint MoS_2 on 70° joint w/orthoclase

453 - Several (7 or 8) pin head MoS_2 w/qtz and orthoclase along 60° joint

459 - few pin-pt MoS_2 w/orthoclase & qtz along 70° joint

480 - Several pin point MoS_2 w/qtz and orthoclase along 60°

494 - Several scattered pin-heads on 80° joint w/orthoclase & sericite.

497 - Several scattered pin-pt. MoS_2 w/orthoclase

DH #6 8-8-66

DESCRIBED 500 to 523

Rec

500 - 510

$\frac{8.6}{10} = 86\%$

510 - 518

$\frac{4}{8} = 50\%$

518 - 518.5 = 100%

518.5 - 521 =

$\frac{2.1}{2.5} = 84\%$

521 - 525

$2.2 + 1.6 \quad \frac{3.8}{4} = 95\%$

500 to 523 = GRAY, BIOTITE GRANITE w/inclusions of pink orthoclase and some sericite. usually occurring in bands adjacent to joints. Fairly vuggy throughout @ 505'; .2' gray quartz vein crosses core at about 70°.

Both sidewalls aplitic outward for distance of .3 or .4 foot.

MINERALIZATION

501 1 pin head MoS_2 w/orthoclase

504-505 Few scattered pin heads MoS_2 in qtz and aplite.

507 to 507.5 few scattered MoS_2 (pin heads) along about 80° joint w/ orthoclase

509 - 1 pin head MoS_2; 1 sm/xl blue copper (BORNITE) sulfide w/pyrite

510 - 1 pin head in Orthoclase

517 - Same as @ 509; also w Cu sulfide & Pyrite

522 - Several scattered pin-head MoS_2

[illegible] w/orthoclase and sericite adjacent to 70° joint

522.5 - Same as 522.

DRILL Down for Repairs - Alternator

1.415
2.800
2.270
1.435
6.920

60.3
.114
2412
603

2412
603
603
2412

.114
.06
.0684

.192
.6 | .1140

8-11-66

YB #6

CORE DELIVERED 8-10-66

Rec:
525 to 529
$\frac{3.3}{4}$ = 82%
529-538 = 90%
$\frac{4.3+3.7}{4}$
538-542 = 22%
$\frac{.9}{4}$

523 to 533.4

Biotite granite, Med. text. gray w/ inclusions of pk orthoclase, wh. quartz, and sericite along joint planes about 70° to 85°. Orthoclase invasion makes up nearly ½ of the core since joints are quite closely spaced (possibly ½-foot apart, normal to the joint)

MINERALIZATION

524 - wh. Qtz & orthoclase along joint w/ several scattered pin-head MoS2 along the joint both in orthoclase & in Qtz.

526 - 1 pin-head in orthoclase

527.5 - Several Pin-head MoS2 along 75° joint w/ orthoclase

530 - 1 pin head w/ orthoclase & sericite adjacent to 70° joint

532 - 1 " " " " & sericite along a 70° joint

LH

8/12/66 YB#6

Cores Picked up morning of 8/12/66

533.4 to 593.5

533.4-593.5 Gray Biotite Grain, somewhat argillized in places, also quite vuggy Joints 45° to vertical.

From about 553 to about 565 Cored longitudinal (vertical) joint containing coarse sericite, orthoclase, quartz and irregularly scattered pin-pt. to match-head size MoS_2 (Quite a few, .1% Mo should assay good)

Same h. about 567 to 570 Much tighter joint w/occ pin-head size MoS_2

574 to 584 - 1/2" qtz vein @ ±70° w/ both side walls mineralized w/ scattered pin to match-head size MoS_2

576 - 1 pin-head MoS_2 in Qtz

587 - scattered pin-pt MoS_2 w/orthoclase along fragmented zone about 1" thick

588-593 - Irregular 1/2" qtz stringer following core has occ. match-head size MoS_2.

Note: this interval does not show much cross section of rock since quite a lot of the core followed down near-vertical joint plane. Some are well mineralized however.

Rec:

542-549-86%

6/7 =

549-551=100%

551-555

3.9/4 = 98%

555-564=100%

6.7 / 2.3 / 9.0

564-574 =100%

1.2+7.5+1.4

10/10

574-584=100%

584-

8.1+

Core NX To 500 CASED TO 500' BX PINHEAD = 1 MM
Core BX 500 — YB #6 MATCHHEAD = 4 MM 8-17-66 G. W.

RUNS FM	TO	REC	%	CORE FM	TO	DESCRIPTION
[illegible]	594	1.9	100?	593^{5}	696	HIGHLY ALTERED BIOTITE GRANITE,
594	604	8.8 / 1.1 / 9.9	99%			LT GRAY, BLACK, PINK MOTTLED,
604	608	3.4	85%			HARD, WITH CLUSTERS OF SERICITE,
608	618	4.7 / 5.9 / 5.4	97%			& IRREGULAR ~~INTRUSIVE~~ ALTERATION PRODUCT?? LENSES OF
618	624	4.1 / 2.4 / 6.5	100%			PINK ORTHOCLASE GRANITE, CHLORITIZED,
624	632	6.7 / 0.9 / 7.6	95%			0.05" CLEAR CALCITE 597. FRACTURE
632	642	8.0 / 1.9	99			PLANES 40° TO CORE, SEALED
642	652	7.5 / [illegible]	100%			JT PLANES 60° TO CORE.
MC 652	659	6.7 / 0.1 / 6.8	97%			SMALL VUGS PRESENT SPONGY
659	664	4.7	94%			APPEARANCE. SILICA ENRICHED, MED TEXT.
664	674	4.2 / 5.0	92%			593^{5}-593^{8}
674	681	4.1 / 1.6 / 5.7	82%			DISSEMINATED MoS_2 (PINHEAD) IN PINK ORTHO
H 681	691	7.7 / 3.0	100%			594-601 MoS_2 SPARSELY DISSEM-
691	694	3.2	100%			INATED THRU-OUT (PINHEAD) AND
694	703^{9}	2.8 / 5.1 / 7.9	88%			ALONG THE WALLS OF THIN QTZ
703	711^{8}	3.6 / 3.8 / 7.4	93%			SEAMS (PINHEAD TO MATCHHEAD)
MC 711	721	5.1 / 4.6	97%			606-607^{5} DISSEMINATED MoS_2 - PINHEAD
721	726^{5}	4.7	94%			TO MATCH HEAD
726	734	[illegible]	[illegible]			611-612 DISSEM MoS_2 - PINHEAD TO
734	744	1.0 / 8.1	91%			MATCH HEAD
H 744	754	1.0 / 8.0	99%			619 - BIOTITE ALTERED TO HEMATITE
754	756	0.3 / 2.1 / 2.4	10[illegible]			SPARSELY DISSEMINATED PYRITE
756	764^{8}	7.1 / 6.6 / 7.7	96%			THRU OUT CORE
764	77[illegible]	8.3 / 1.0	93%			616-622 MoS_2 SPARSELY
MC 774	783^{9}	7.6 / 0.4 / 8.0	89%			DISSEMINATED THRU CORE,
783	788^{5}	4.7	94%			PREDOMINENTLY PINK ORTHOCLASE
788	798	3.8 / 5.8 / 9.6	96%			ZONES
798	808	3.6 / 6.3 / 9.9	99%			OCCASSIONAL THIN CLEAR CALCITE
H 808	818	2.6 / 1.2 / 2.8	98%			LENSES
818	824^{6}	2.0 / 3.6 / 5.6	93%			THIN LENSES GYPSUM 632
824	826	2.0	100%			623-623^{3} - DISSEM MoS_2 IN PINK ORTHO
MC 826	832^{6}	1.9 / 3.5 / 5.4	90%			627-627^{3} " " " " PINHEAD
832	84[illegible]	7.3 / 2.[illegible]	99%			632-632^{4} " " "
842	852	6.8 / 2.[illegible]	95%			635-636 " " " w/ MASSIVE PYRITE [illegible]

YB-6

DESCRIPTION

640.5-641.4 DISSEMINATED MoS_2 PINHEAD IN PINK ORTHOCLASE GRANITE.

653.1-654.2 " PINHEAD TO 0.3"-0.5" MASS
658.5-658.7 " "
660-660.5 " "
662-662.3 " "
668-668.4 " "
673.9-674.0 " "
680.5-681 " "

624 VERY SPARSE - FEW SPOTS
625 " " " "

696-780 HIGHLY ALTERED, ARGILLIZED SERITICIZED, FRACTURED, POROUS W/CLAY & CALCITE SEALED SEAMS FREQUENT THIN WHT QTZ LENSES 80° TO CORE, CLAY & RUBBLE 702-703

1621 710.6-711.4 MoS_2 SPARSLY DISSEMINATED IN SERITIZIZED ALT GRANITE & PINK ORTHOCLASE

1622 717.4-717.9 SPARSE BLEBS IN ORTHOCLASE GRANITE

723 HEMATITE STAINED LENS 70° TO CORE

724 GYPSUM LENS 40° TO CORE

1623 731.3-731.6 BLEBS OF MoS_2 IN ORTHOCLASE GRANITE

1624 752-752.2 SPARSE BLEBS MoS_2 IN SERICITE & ORTHOCLASE GRANITE.

757.8-758.1 SPARSE BLEBS MoS_2 IN PINK ORTHOCLASE GRANITE + QTZ.

770 GYPSUM LENS

782-782.2

YB-6

Fm	To	Ft.	Rec%
852	858	5.4	90%
858	861	2.7 / 2.6 / 3.3	100%
861	864	2.4	80%
864	871	5.6 / 3.5 / 7.1	100%
871	881	5.6 / 4.2	
Holland		2.8	98%
881	891	4.5 / 4.9	94%
891	901	4.8 / 4.9	97%
Holland		5.4	
901	911	4.2	96%
911	917	3.4 / 5.2 / 1.8	87%
917	924	6.6 / 7.2	100%
924	934	8.7 / 6.5	92%
Mc			
934	941	6.6	94%
941	947	2.1 / 3.9 / 6.0	100%
947	954	5.1 / 1.4 / 6.5	93%
954	964	7.6 / 2.3	99%
Holland		9.9	
964	974	7.3 / 1.9 / 9.2	92%
974	983	7.3 / 3.3 / 9.6	100%
983	993	6.7 / 3.0	97%
993	995	2	100%
995	1004	4.0 / 3.5 / 7.5	138%
Mc			
1004	1014	7 / 1.3 / 6.3	63%
1014	1021	4.5	64%
Holland			
1021	1023	1.6	80%

799.8 - 800 MoS_2 BLEBS, MATCHHEAD IN SERICITE & ORTHOCLASE GRANITE. FRACTURE 40° TO CORE. POROUS

817 - 817.7 WHITE QUARTZ + COARSE SERICITE

824 - 825.3 GRAY CLAY GOUGE

830.4 - 831.0 MoS_2 BLEBS IN PINK ORTHOCLASE GRANITE, SPARSE MATCHHEAD ALONG QTZ SEAM

1625

832.2 - 832.4, MoS_2 PINHEAD BLEBS IN PINK ORTHOCLASE GRANITE

833.7 - 835.4 MoS_2, PINHEAD, BLEBS IN PINK ORTHOCLASE GRANITE, & IN SERICITE ALONG QTZ - SERICITE INTERFACE.

780 - 1004 ALTERED BIOTITE GRANITE, MOTTLED GRAY-LT. GRAY, BLACK, PINK, HARD MED TEXTURED, SPARSLY DISSEMINATED WITH PYRITE.

877 - 877.3 MINUTE BLEBS OF MoS_2 IN SERICITE.

890.8 - 892 MATCHHEAD BLEBS OF MoS_2 IN SERICITE & PINK ORTHOCLASE GRANITE.

1626

FROM 896 - 901.6 SPARSE MATCHHEAD BLEBS MoS_2 IN PINK ORTHOCLASE GRANITE.

907.5 BLEB OF MoS_2 IN ORTHOCLASE GRANITE

915 - 916 FAULT GOUGE

1627

922 - 923 MINUTE BLEBS MoS_2 IN ORTHOCLASE GRANITE & QTZ

924.9 - 925.6 MoS_2 BLEBS IN QUARTZ & ORTHOCLASE GRANITE, SPARSELY SCATTERED ALONG LINE IN QTZ

QTZ LENSES 80° TO CORE

970.5 COARSE BLEBS MoS_2 ALONG PLANE IN ORTHO 60° TO CORE

FM	TO	REC

YB-6

FM	TO	DESCRIPTION
1054	1204	VERY HIGHLY ALTERED GRANITE, ABUNDANT ARGILLICTIC GRAY & LT GRAY CLAY, POROUS, ~~SERICITIZED~~ sericitized FAULT STRIATIONS ACROSS AND ALONG VERTICAL HOLE, HIGHLY BRECCIATED (HIGH CORE LOSS,) HEMATITE STRKS ALONG FRACT PLANES
1634		1063 - 1068 ?? VERY HEAVY MASSIVE MoS_2 + HEAVY LOSS
		1069 - 1100 MoS_2 HVY DISSEMINATED THRU OUT HIGHLY ALTERED, FRACTURED, BRECCIATED GRANITE, ABUNDANT QTZ, SERICITE + PINK ORTHOCLASE, POROUS CORE FRACTURES AT HIGH ANGLES TO CORE ∩ SOME WLAVE. Top ≈ 70° - BOTTOM ≈ 80° IN AND OUT ALONG VERTICAL PLANE. MoS_2 AS INDEPENDENT SMALL BLEBS + CLUSTERS, LOOSELY HELD IN CORE.
		1100 - 1105 MoS_2 SPARSELY DISSEMINATED + ALONG FRACTURE FAULT PLANES, CORE HIGHLY BRECCIATED, ARGILLITIC
		1105 - 1112 MoS_2 AS A COATING ALONG FAULT - FRACTURE PLANES + SPARSELY DISSEMINATED.
		1112 - 1118 MoS_2 VERY SPARSE, FRACTURE - FAULT PLANE COATINGS + DISSEMINATED.
		1125^5 - 1126^5 MoS_2 COATS FRACTURE FAULT PLANES.
		1128^4 - 1131^4 MoS_2 COATING FRACTURE PLANES + SPARSLY DISSEMINATED, HIGHLY ARGILLIZED FRACTURED
		1132^3 - 1134 MoS_2 COATING FRACTURE PLANES + SPARSLY DISSEMINATED. HIGHLY ARGILLIZED FRACTURED ALTERED BIOTITE GRANITE.
		1135 - 1138 SAME AS ABOVE
		1138^3 - 1140^3 FRACTURE SPLITS CORE, HEMATITE STREAKS ALONG FRACTURE PLANE
		1147^8 - 1149^6 MoS_2 BLEBS SPARSLY DISPERSED THRU ALTERED GRAN + WHT QTZ

YB-6

FM	TO	REC %
1023	1032	71%
1032	1037	100%
Holland		
1037	1044	80%
1044	1052	68%
1052	1059	74
1059	1068	44°
1068	1078	77%
1078	1081	73%
McC		
1081	1086	82%
1086	1092	78%
1092	1098	82%
1098	1104	55%
1104	1106	40%
1106	1114	96%
Holland		
1114	1119	~~88%~~ 95%
1119	1125	72%
1125	1132	63%
1132	1136	77%
1136	1138	60%
MC		
1138	1144	93%
1144	1149	76%
MASTERO Vall		
1149	1154	68%
1154	1160	68%
1160	1168	96%

FM	TO	DESCRIPTION
1628	981.6 – 983.5	ORTHOCLASE GRANITE IMPREGNATED WITH SERICITE, SPARSELY DISSEMINATED WITH MoS_2 (MINUTE TO MATCH HEAD) & PYRITE. FRACTURES 40° TO CORE
	989.5 – 990.9	SAME AS ABOVE
	992.1 – 993.0	SAME AS ABOVE
1629	1003.5 – 1004	FAULT GOUGE, GRAY CLAY & RUBBLED ALTERED GRANITE
	1004 – 1012	HIGHLY ALTERED BIOTITE GRANITE, W/ INCLUSIONS OF PINK ORTHOCLASE, & FRACTURES SEALED W/ WHITE QUARTZ, ABUNDANT SERICITE BELOW 1111' SPARSELY DISSEMINATED MoS_2 THRU OUT & AS INTERMITTENT BLEBS ALONG QTZ-ORTHOCLASE CONTACTS FORMING FRACTURE PLANES 75° TO CORE. SPARSELY DISSEMINATED PYRITE THRU-OUT. CORE IS HIGHLY FRACTURED, FREQUENT VUGS (SPONGY) HEMATITE HALOS AROUND PYRITE.
1630	1012 – 1054	SAME DESCRIPTION AS ABOVE SANS MoS_2 EXCEPT @ 1020 SPARSELY DISSEMINATED MINUTE BLEBS MoS_2 (CORE LOSS) !!!
1631	1032 – 1034.6	MoS_2 DISSEMINATED SPARSELY THRUOUT ORTHOCLASE GRANITE & SERICITE (COARSE SERICITE)
	1036.3 – 1036.5	MoS_2 AS ABOVE
	1037 – 0.2	CLAY GOUGE
	1037.2 – 1037.6	SPARSE MoS_2 BLEBS IN ORTHOCLASE GRANITE.
1632	1044.3 – 1044.6	MoS_2 AS ABOVE, CORE IS VERY POROUS
	1054 – 1054.5	AS ABOVE.
1633	1054.6 – 1054.9	AS ABOVE, PRINCIPALLY QTZ

YB-6

Fm	To		Rec %
1168	1177	7.1	86%
1177	1184	6.0	86%
1184	1189	2.5	94%
		4.7	
1189	1190	1.0	100%
1190	1193	3.3	100%
1193	1198	2.1	68%
McC		3.4	
1198	1204	4.2	70%
1204	1207	1.8	83%
McC		2.5	
1205	1210	2.7	54%
1210	1216	4.7	78%
1216	1220	3.1	77%
1220	1224	2.2	55%
1224	1227	2.0	67%
1227	1228	1.0	100%
1228	1231	2.3	77%
1231	1234	2.7	90%
1234		2.2	

Hollond

Fm	To	DESCRIPTION
1156	1156	MoS_2 SPARSLY DISPERSED THRU ALTERED CHLORITIZED GRANITE.
1157		PARTICLES OF PURPLE FLUORITE IN SERIED BRECCIATED PINK ORTHOCLASE GRANITE
1159	1160	MoS_2 COATING FRACTURE PLANES IN BROKEN ALTERED GRANITE. (SAMPLED TO 1170)
1172	1172	MoS_2 BLEBS (PINHEAD) IN QTZ LENS
1176	1177	MoS_2 SPARSLY DISSEMINATED THRU BRECCIATED GRANITE + WHT QTZ & COATING FRACTURE - FAULT PLANES
1180	1180	FEW SPARSE BLEBS MoS_2 IN ORTHO GRANITE
1184	1184	" " " " " " "
1186	1187	" " " " " " "
1193	1193	" " " " " " "
1200	1202	SAME AS ABOVE, CORE HIGHLY RUBBLED (HVY CORE LOSS!!)
1210	1210	SAME CORE DESCRIPTION
1218	1218	SAME " "
1223	1224	" RUBBLED CORE
1224	1225	" " "
1227	1227	" " "
1232	1234	" " "
1234	1235	" " "

7:30 P.M. 8:00 P.M

YB-6

8-27-66

FM	TO		REC%
1234	1237	2.2 0.5 2.7	90
1237	1239	2.1	105
1239	1242	2.6	87
1242	1245	2.6	87
1245	1248	0.6 2.0 2.6	87
Mc			
1248	1249	1.0	100%
1249	1254	4.5	90
1254	1257	0.7 1.9 2.6	87
1257	1260	2.5	83
1260	1262	1.5	75
1262	1265	1.5 1.0 2.5	83
Holland			
1265	1270	3.3	66
1270	1274	2.3	58
1274	1279	0.7 4.1 4.8	96
1279	1284	4.6	92
1284	1290	5.3	88
1290	1295	3.5 0.8 4.3	86
Mc			
McCALLISTER			
1295	1301	2.0	34%
Holland			
1301	1304	2.5	83
Holland			
1304	1313	2.8	31%
1313	1314	0.8	80%
CORE LOSS			
1314	1316	1.9	90
Mc			
1316	1322	5.5	92
1322	1329	0.4 5.1 5.6	80
1329	1333	3.4 0.3 3.7	92

MASIERO

FM	TO	DESCRIPTION
		CONTACT ZONE
1204	1226	GRADATIONAL CONTACT OF HIGHLY ALTERED LT. GRAY BIOTITE GRANITE W/ PINK ORTHOCLASE GRANITE WITH MANY WHITE QUARTZ LENSES
1226	1290	PINK ORTHOCLASE GRANITE W/ WHT QTZ. LENSES, SPONGY, PYRITE SPARSLY DISSEMINATED THRU-OUT. OCCASSIONAL ZONES OF ALTERED BIOTITE GRANITE. MANY QTZ LENSES 60° TO CORE. CORE FRACTURED BUT NOT RUBBLED
1238	1238.5	MoS_2 BLEBS (PIN HEAD) SPARSLY DISSEMINATED THRU CORE
1243.8	1244.3	SAME AS ABOVE
1246	1248	MoS_2 0.1" BLEBS SPARSLY SCATTERED THRU PINK ORTHOCLASE GRANITE.
1249.3	1249.5	MoS_2 BLEBS (PINHEAD) AS ABOVE
9-6-66 SAMPLED TO 1250		
1251.0	1251.3	AS ABOVE.
1261	1261.2	AS ABOVE, VERY SPARSE, MINUTE.
1264.1	1264.2	HEAVY MoS_2 SMEAR ALONG FRACTURE PLANE IN ORTHOCLASE GRANITE; 70° TO CORE
1267.4	1267.6	HEAVY MoS_2 SMEAR ALONG FRACTURE PLANE AT QTZ - GRANITE INTERFACE 70° TO CORE
1282.8	1283	MINUTE MoS_2 BLEBS IN POROUS ORTHOCLASE GRANITE.
1290	1304	BIOTITE GRANITE, HIGHLY ALTERED, LT GRAY, HARD, FREQUENT FRACTURES, LOW ANGLES TO CORE.

1304 - 1305 (?) EXTREME CORE LOSS, ORTHOCLASE GRANITE, PINK, W/ OCCASIONAL MoS_2 BLEBS.

9-1-66

1305 - (1352) ORTHOCLASE GRANITE, PINK, GRAY BLACK MOTTLED, MED TEXTURED, NUMEROUS FRACTURES, SPARSELY DISSEM. PYRITE

YB-6

DRILL LOG CONT'D

	MP	
* 1453	3.0 2.2 5.2	65
1453-1462	5.2 3.7 8.9	99% GUD THRU BAD ZONE
1462-1469	5.4 1.1 6.5	93%
1469-1474	5.0	100%
1474-	2.7	

YB-6

BX CORE FM TO		REC	FM TO	DESCRIPTION
1333-1340	6.5	92%	1328.8-1328.2	BLEB MoS_2 IN PINK ORTHOCLASE
1340-1344	2.1 / 1.6 / 3.7	93	1331-1331.8	FAULT GOUGE, PLANE 80° TO CORE
			1352.5-1352.6	MoS_2 SMEAR ALONG FAULT PLANE
1344-1347	2.3	77	1352.6-1358	FAULT CLAY GOUGE & RUBBLED CORE
1347-1352	4.2	84	1361	HEMATITE ALONG STRIATIONS
1352-1353	0.7	70		OF FAULT PLANE.
1353-1356	2.5	84	1358-1421	RUBBLED CORE, ABUNDANT GRAY
1356-1361.5	4.7	86%		CLAY GOUGE MoS_2 IN QTZ 1363
1361.5-1364	0.4 / 1.2 / 1.6	64	1372-1373	CLAY GOUGE
			1378-1379	RED ORTHOCLASE GRANITE
1364-1369	3.1	62	1404.2	MoS_2 BLEBS IN THIN SERICITE
				SEAM 60° TO CORE
1369-1371	1.5	75		
1371-1374	1.1 / 1.1 / 2.2	74%		
			1421-1477	HIGHLY ALTERED ORTHOCLASE GRANITE,
1374-1377	2.2	74%		LT GRAY, PINK MOTTLED, MANY FRACTURES
1377-1379	1.6	80		AT LOW ANGLES TO CORE, MEDIUM TEXTURE
1379-1384	2.0 / 1.8 / 3.8	76%	1451-1453.5	QUARTZ, CLAY, SERICITE W/VERY
				FINE CLAY PARTICLE SIZE MoS_2 SMEARED
1384-1390	5.3	88		THRU OUT
1390-1394	1.3 / 2.0 / 3.3	82%	1467.8-1468	FEW SPARSE MoS_2 BLEBS IN
				ORTHOCLASE GRANITE,
1394-1398	2.6	65%	1468-1469	MoS_2 V. SPARSLY DISSEMINATED
1398-1400	1.5	75		& SMEARED AS COATING ALONG FRACTURE PLANE
1400-1405	1.5 / 2.8 / 4.3	86		IN PINK ORTHOCLASE GRANITE
			1471-1472	MoS_2, AS COATINGS ALONG FRACTURE
1405-1412	5.8 / 0.4 / 6.2	89		PLANES IN PINK ORTHOCLASE GRANITE
1412-1418	5.5	92	1477	TD 9-3-66
1418-1426	2.7 / 4.8 / 7.5	94		[illegible]
1426-1433	4.4 / 2.4 / 6.8	98		
1433-1441	6.2 / 1.1 / 7.3	92%		
1441-1445	4.3	107%		

YB-6

CORE

FM	TO	REC	%
1474	1479	2.7 / 2.2 / 6.5	98
1479	1487	0.7 / 7.2	90
1487	1492	4.6	92
1492	1496	3.0 / 0.8 / 3.8	95
1496	1504	7.7 / 8.8	97
1504	1514	1.0 / 9.8	98
1514	1524	7.5 / 1.8 / 9.3	93
1524	1529	4.7	94
1529		2.3	

FM	TO	DESCRIPTION
1477	1506	ALT. GRANITE, MOTTLED PINK-GRAY GREEN, ABUNDANT PINK ORTHOCLASE, MANY FRACTURES 30°-40° TO CORE, OCCASSIONAL QTZ SEAMS, PYRITE SPARSLY DISSEM THRU OUT
		1480^1 - 1480^4 . BLEBS MoS_2 IN ORTHOCLASE GRANITE, SPARSE PIN HEAD SIZE.
		1480^4 - 1480^6 SOLID MoS_2 IN SERICITE & CLAY MATRIX, BLACK SHINY
		1446^2 - 1447^6 HEAVY BLACK MoS_2 SEAM 0.1" WIDE ALONG CORE
		1448^7 - 1449^4 SAME AS ABOVE
		1451^3 - 1452^0 SAME AS ABOVE
		1453 - $1453^{.01"}$ " " "
		1446 - 1454. CORE BRECCIATED & RESEALED.
1506	1507	CORE ALTERED TO GRAY CLAY.
1507	1512	ALT GRANITE, MOTTLED PINK-GRAY GRN
1512	1531	FAULT GOUGE, PRIMARILY GRAY CLAY & BRECCIATED GRANITE W/ BLACK MoS_2 ? (PYRITE?) SMEARED FRACTURE PLANES AT 40° TO CORE.
1522	1525	MoS_2 ? (OR PYRITE) SMEARED FRACTURES ABOUT 0.2' APART, BLACK < 0.1"
1526		MoS_2 ? (& PYRITE) SMEARED FRACTURE PLANE
1528		MoS_2 ? (& PYRITE) (BLACK) COATED FRACTURE PLANE
1529^7		MoS_2 ? (BLACK) COATED FRACTURE PLANE

(pyrite?)

YB-6

To	Rec	90
1529-1532	2.3 / 0.6 / 2.9	97
1532-1534	2.0 GUD	100%
1534-1536	1.7	85
1536-1537	1.1 GUD	110
1537-1538	0.6	60
1538-1540	1.0	50
1540-1543	2.6	87
1543-1545	1.9	95
1545-1546	0.25 GUD	95
1546-1549	0.4 / 2.4 / 2.8	94
1549-1553	4.2	102
1553-1556	2.6	87
1556-1559	1.2 / 1.5 / 2.7	90
1559-1564	5.9	118??
1564-1572	5.7 / 1.9 / 7.6	95
1572-1578	3.4 / 1.8 / 5.2	87
1578-1581.5	3.3	94
1581.5-1587	3.1 / 1.2 / 4.3	79
1587-1592	6.0 ??	120
1592-1594	.9 / 0.3 / 2.1	104
1594-1600	4.7	79
1600-1605	3.5 / 1.1 / 4.6	92
1605-1614	7.4 / 1.7 / 9.1	104
1614-	7.3	

FM	TO	DESCRIPTION
1531	1559	ALTERED GRANITE, PINK ORTHOCLASE PREDOMINATES, MEDIUM TEXTURED, HIGHLY FRACTURED, RUBBLED, ~~ABUNDANT~~ HIGHLY (CLAY) ARGILLACEOUS
1531	1534	MoS_2? STAINS ALONG FRACTURE PLANES DK GRAY 0.4' APART FRACTURE PLANES AT LOW-ANGLES TO CORE HEMATITE STAINS ALONG FRACTURE PLANES (ALTERATION of BIOTITE?)
1542	1544	BLACK PYRITE STAINS ALONG FRACTURE PLANES.
1550.5		
1559	1592	ALTERED BIOTITE GRANITE, LT GRAY; HARD MED TEXTURED, W/ NUMEROUS FRACTURES 50° TO CORE
1570		BLACK PYRITE SMEAR ALONG FRACTURE PLANE
1592	1620	ALTERED GRANITE GRAY GRN HARD MED TEXT, OCCASSIONAL THIN LENSES OF ORTHOCLASE GRANITE PYRITE SPARSLY DISSEM

YB-6

FM	TO	RQD		FM	TO	DESCRIPTION
1614	1623	6.3 / 8.0	89	1620	1646	GRANITE, PREDOMINENTLY PINK-RED ORTHOCLASE W/GRN ALTERED BIOTITE SPOTS, PYRITE SPARSLY DISSEM THRU OUT, SOME W/ MINUTE SPECKS OF MoS_2 IN THEIR CENTERS, ALSO VERY SPARSE MoS_2 PINHEAD SIZE DISSEM, MoS_2
1623	1629	6.0	100%			
1629	1632	1.9 / 1.5 / 3.4	85			
1632	1635	2.2	74			
1635	1642	4.0 / 2.4 / 6.4	92			
1642	1647	5.0	100	DETAIL	→	0.01" STREAK 1621^5-1626
1647	1653	4.8	80			BLACK SOOTY HALOS AROUND PYRITE (CHALCOCITE ??)
1653	1657	3.4 / 0.5 / 3.9	98			
				1629	1630^5	BLACK SHALE STREAK ∥ TO LONG AXIS CORE.
1657	1659^5	2.0	80			
				1631	1632	0.1" VEIN MoS_2 ∥ TO LONG AXIS OF CORE
1659^5	1660^5	0.9	90	1632	1637	HEMATITE STRKS ACROSS CORE ALONG FAULT PLANES - RANDOM ANGLES
ROCKHILL → *						
1660^5	1663	1.7	68	1641	1642	BRECCIATE CORE, 1641 - MoS_2 BLEBS IN BRECCIA
1666 / 1663		2.2				1641^8-1642 HUY CLAY DK GRAY IMPREGNATED WITH MoS_2
				1645	1646	THIN BLACK CLAY(?) SEAM ∥ TO CORE

1646-1656 BIOTITE GRANITE, PINK + GRAY MOTTLED HARD, MEDIUM TEXTURED, FRACTURED W/ SPARSLY DISSEMINATED MINUTE BLEBS OF PYRITE

1647-1648 FRACTURES COATED W/ BLACK STAIN

1649-1649^5 VERY MINUTE BLEBS MoS_2 SPARSLY DISSEMINATED THRU ORTHOCLASE (PINK) GRANITE.

1650 - 1650^3 MoS_2 SMEARED ALONG FRACTURE PLANE.

1656 - 1666 HIGHLY ALTERED, FAULTED, BRECCIATED GRANITE, ARGILLIZED, MOTTLED PINK-GRAY GREEN

1656 - FRACTURE PLANES COATED W/BLACK -

YB-6 9-14-66 G.W

FM (SHOULD BE 1663)	TO	REC		FM	TO	DESCRIPTION
1663	1667	1.7 (2.2) (3.9)	97			TO LEAD GRAY SOFT, MALLABLE MINERAL MoS_2 & OR ARGENTITE!! AG_2S
1667	1671	3.7	92			FRACTURE PLANES SHOW HORIZONTAL STRIATIONS (FAULTING OR DUE TO LOADING?)
1671	1674	2.9 (2.1) (3.0)	100			TO LONG AXIS OF CORE) CORE IS PREDOMINENTLY ALTERED PINK ORTHOCLASE GRANITE, BIOTITE PHENOCRYSTS
1674	1676^5	2.1	84			ARE CHLORITIZED, STREAKS OF RED HEMATITE.
1676^5	1685	4.2 (3.7) (7.9)	105	1666	1727	BIOTITE GRANITE, PINK-GRAY W/ BLACK PHENOCRYSTS, HARD, MED-FINE TEXTURE, BIOTITE IS
1685	1690	4.1	82			CHLORITIZED. FRACTURES @ HI ANGLES TO CORE
				1669	1669^5	VERY SPARSE, MINUTE PARTICLES
1690	1692	0.4 (1.9) (2.3)	115			OF MoS_2
1692	1696	3.4	85	1683^6	1684^1	PYRITE & MoS_2 ~~ALONG~~ SEALING VERY NARROW FRACTURE
1696	1703	2.6 (3.9) (6.5)	93	1685^1	1685^4	MoS_2 ALONG FRACTURE PLANE, VERY FEW BLEBS
1703	1704	0.8	80	1688	1688^6	FAULTED GRANITE, SOFT BRECCIATED
1704	1707	3.1	103	1695^5	1695^7	FEW SPARSE BLEBS
1707	1711	0.6 (3.6) (4.2)	84			MoS_2 IN ORTHOCLASE GRANITE.
				1704		HVY MoS_2 IN QTZ FRAGMENTS AT BEGINNING OF RUN — MAY HAVE RAVELED FROM
1711	1714	2.1	70			HOLE ABOVE!!!
1714	1717	2.5	84			
				1708		GROUND BECOMMING HARDER, LESS
1717	1723	6.4	106			ALTERED
1723	1727	2.1 (1.5) (3.6)	90	1719^8	1720^5	MoS_2 BLEBS IN ORTHOCLASE GRANITE, VERY SPARSE

Bottom of Hole @ 1727
9-15-66
≈ 2:30P

1727 TD 9-

9-1-66

YB-6

CORE RECOVERY PER SHIFT PER DRILLER

DATE	DRILLER	FROM	TO	FEET DRILLED	FEET RECOV.	RECOVERY %
8-12-66	HOLLAND	594	624	30	29^{2}	98 ✓
8-12-66	McCALLISTER	624	664	40	39^{0}	97
8-13	HOLLAND	664	694	30	28^{8}	96
8-13	McCALLISTER	694	726	32	29^{7}	93
8-14	HOLLAND	726	756	30	29^{4}	98
8-14	McC	756	788	32	29^{7}	93
8-15	HOLLAND	788	818	30	29^{3}	98
8-15	McC	818	858	40	37^{8}	94
8-16	Hol	858	891	33	32^{0}	97
8-16	Mc	—	—	—		
8-18	Holl	891	917	26	24^{5}	94
8-18	McC	917	954	37	35^{5}	96
8-19	HOLL	954	983	29	28^{7}	99
8-19	McCA	983	1014	31	25^{5}	83
8-20	HOLL	1014	1044	30	23^{2}	77
8-20	McC	1044	1086	42	28^{6} *	68
8-21	HOLL	1086	1119	33	26^{4} *	80
8-21	McC	1119	1144	25	18^{6} *	74
8-22	MASLER HOLLAND	1144	1184	40	32^{7}	82
8-22	McC	1184	1198	14	12^{4}	89
8-23	HOLL	—	—	—		
8-23	Mc	1198	1224	26	19^{4}	75
8-25	HOLL	1224	1237	13	12^{9}	99
8-25	McC	1237	1257	20	18^{0}	90
8-26	HOLL	1257	1279	22	16^{9}	77
8-26	McC	1279	1301	22	16^{2}	74
8-27	HOLL	1301	1313	12	5^{3}	44
8-27	McC	—	—	—		
8-28	McC	1313	1329	16	13^{7}	81
8-30	MASLER	1329	1352	23	20^{4}	89
8-31	FLEMING	1352	1371	19	14^{1}	75
8-31	McC	1371	1390	19	15^{1}	80

YB-6 RECOVERY TABLE CONT'D

						RECOVERY
9-1-66	FLEMING	1390	1412	22	17^{2}	81.90
9-1-66	M^c^C	1412	1433	21	19^{8}	95
9-2-66	FLEM	1433	1462	29	23^{7}	82

YB 8 N 10,840
E 12,400

YB-8.

9-1-66

CORE RECOVERY PER SHIFT PER DRILLER

DATE	DRILLER	FM	TO	FEET DRILLED	FEET RECOVERED	RECOVERY %
8-23-66	FLEMING	0	9	9 } 50	36.4	73
8-25	FLEMING	9	10	1	(CK BX #3 - MISSING) — IN KGM WAREHOUSE-GW	
"	"	10	50	40.		
8-26	FLEMING	50.	104	54	47^{1}	88
8-26	LEE	104	137	33	28^{2}	85
8-27	FLEMING	—	—	—	1.6	80
8-28	LEE	(2' LOST ?)		2		
8-29	LEE	139	181	42	39^{4}	94
8-30	LEE	181	215	34	30^{1}	89
8-31	LEE	215	248	33	30^{6}	93
9-1	LEE	248	270	22	19^{4}	84
9-2	LEE	270	293	23	22^{1}	96

Background 0.012 MR/HR

YB-6 Med. Time C. .025 scale

100-109 Normal
109-118 "
118-127 "
127-136 "
1034-1044 Empty box
533.4-547 Normal
547-556 Normal
Box 896-906
896-901.5 Empty
901.6-906 Normal

Box 990.4-999
990.4-993 Empty
993-999 Normal

Boxes 1146.5-1157 } Empty
1157-1168 }
1168-1177 }

1449-1458
Radioactivity above normal
0.015-0.018 MR/HR with "hottest" around 1454.
decreases downward with bottom 2' about normal
Ltgy & gm-gry gouge clay sericite 1445.2-5.3

1453-1454 COARSE MUSCOVITE SERICITE-GREISSEN) BRECCIATED GRANITE, ~~0.1' QTZ~~ BLEBS of PURPLE FLUORITE.
1454-1454.2 QTZ, BRECCIATED & RESEALED

A.E.C. #4 YELLOW BASIN
MOHAVE CO., ARIZONA

Core Descriptions

YELLOW BASIN PROSPECTS

8/29/66

YB#4 DESCRIPTION 778 to 826

778 to 783 Altered Biotite granite argillized, and w/ some case sericite along joints.

783 to 786.5 White Quartz w/occ hair-line seam of pyrite and MoS2 @ about 45°

786.5 to 816.5 Altered biotite granite as above 778 to 783

816.5 to 819 Case sericite (90%) also clay and white feldspar, trace CaF_2,

819-826 Altered biotite granite as above 778 to 783.

Pyrite and few specks - pin-head MoS2 on 60° fault @ 797.

Pyrite and few pin-head MoS2 816.5 to 819.

HH

YB 4 6-5-66

RUNS: R
FM TO REC

CORE

FM	TO	DESCRIPTION
826	827½	QTZ W/ SERICITE ALONG FRACT
827½	849	HIGHLY ALTERED BIOTITE GR - FELDSPARS → CLAY MIN
		CORE RUBBLED → FRACT COATINGS
849	850	SERICITE W/ MoS_2 THRU OUT - SPARSE
850	852	HIGHLY ALT BIO-GR - CLAY
852	852½	FRACT HVYLY COATED W/ MoS_2
852	876	ALT BIOTITE G.R.

9:32 A.M. 876 T.D. 4:00 P 6-5-66

1. CORE
2. HMY CMP
3. DRILL SCHED

712 770 748-778

CIRCULATES:

6-6-66 YB-4-

866-930 HIGHLY ALTERED BIOTITE GRANITE w/ INCLUSIONS OF PINK ORTHOCLASE, FELDSPARS ALTERED TO CLAY MINERALS

888-888.5 QTZ FRACT CONTAINS MoS_2 ALONG FRACT 1/4" ALSO SPARSELY DISSEM - ~~PIN POINTS~~ BLEBS-MATCHHEAD THRU OUT

ALSO HEMATITE.

913 MoS_2 1/16" ALONG FRACT PLANE

928. OR' SERICITE COARSE

HVY MoS_2 BLEBS, MATCH HEAD IN SERICITE IN 1/4" X SECTION

T.D. 930- 5:30P 6-6-66

YB-4 6-7-66

924 - 927.5 ALTERED BIOTITE GRANITE w/ INCLUSIONS OF COARSE TEXTURED ORTHOCLASE GRANITE, FELDSPARS ALTERED TO CLAY MINERALS

927.5 - 928 ALTERED GRANITE w/ 0.5' QTZ SERICITE INCLUSIONS PINHEAD TO MATCH HEAD MoS_2 SCATTERED THRU OUT ≈ 8 / SQ IN.

928 - 948.5 ALTERED BIOTITE GRANITE w/ INCLUSIONS OF COARSE TEXTURED ORTHOCLASE AS PREV.

938 - 938.3 DISCONTINUOS SEAM 1/8" IN ORTHOCLASE ALSO DISSEM IN ORTHOCLASE

948.5 - 949.3 SERICITE, CONTAINS OUT QTZ w/ LARGE PYRITE & MOLYBDENITE PIN HEAD CLUSTERS OF 1/8" SQ MoS_2 ALSO HEAVY CON. 1/32" ALONG SEAM

949.3 - 964 ALTERED BIOTITE GRANITE, COARSE TEXTURED w/ INCLUSIONS OF ORTHOCLASE GRANITE

YB-4 6-9-66

FM	TO	REC	FM	TO	DESCRIPTION
	-964		962.3	-973	ALTERED BIOTITE GRANITE, LT-DK GRAY MOTTLED, W/INCLUSIONS OF PINK ORTHOCLASE GRANITE,
1.6					
964	970.7	92%		968	FEW SPARSE BLEBS MoS_2 ADJACENT TO QTZ STRINGER ALSO BRASSY PYRITE
	6.1 / 6.7				
970.7	-976			972	1/16" SEAM COMBINED MoS_2 & FeS_2 IN ORTHOCLASE GRANITE, FEW SPARSE BLEBS MoS_2 DISSEMINATED EITHER SIDE OF FRACTURE
1.5 / 3.2	4.7 / 5.3	89%			
					~~973 - MoS_2 IN 0.2 WHT QTZ~~
			973	-	SAME GENERAL DESCRIPTION, BECOMMING COARSER TEXTURED

T.D 976 - 6-8-66

6-9-66

YB DH # 4

TD 989 @ 4:00pm

976 to 986 – Qtz frags up to 1" rounded and milled, probably from up the hole @ 976. Contains acc crse FeS2 and few scattered pin-head MoS2

Runs
976 to 982
5.2/6 = 86%

982 to 989
3.7 + 2.6
6.3/7 = 90%

976 to 986 altered biotite granite w/ much pink orthoclase feldspar in bands. medium to crse texture
983.4 to 983.7 white Qtz.
Shows of MoS2: 983' solid band on 45° fracture plane up to 1/16" thick
983.4 - Hanging wall of Qtz veinlet has about 1/16" MoS2 as fracture above.
Few scattered match-head size MoS2 in Qtz.

6-10-66

TD 1012 @ 5:00PM

986 to 1004.5 = GRANITE, Altered, w/ many bands of pink ortho-clase.
995 scattered specks of MoS2 on a 50° fracture.
999 to 999.5 wh. Qtz w/ heavy sericite on sidewalls
Qtz contains pin-pt. to lge blebs MoS2 up to 1/2" square
@ 1002 Pk ortho-clase w/ an irregular fracture about 60° containing scattered specks of MoS2

YB #4 6-11-66

TD @ 2:00pm 1034

1004.5 to 1034 Generally quite hard biotite granite w/ bands of pink orthoclase, and occassional zones of sericite.

1008 to 1009 pk. ortho band w/ fracture plane at about 70°. Rare speck MoS_2 on fracture.

1011 .1' wh. qtz (barren) Sericite on both sidewalls outward about 1/2'

1018 to 1021 Bleached granite - feldspars altered to clay.

1028 to 1029.5 Bleached " " " " ".

1029.5 to 1030.5 Bands of pk. ortho-clase along joints about 70°. Crsepyrite and rare specks of Moly adjacent to fracs.

1030.5 to 1034 Highly broken, fragmented core w/ clay, crse ortho-clase, and all highly altered. 1033 to 1034 pale green (chloritized?) fragments.
At 1030.5 some of clay shows black, earthy MoS_2 specks. (few)

CLAIM
R L 7
R.L. 8
R.L. 9.
R.L. 10

42
14
32

Sol. of Mo

6-14-66

10:45 AM Solomon Prospect.
Report on Cu - Imperial Co. Calif. N. of Yuma (El Paso Bagdad Looking)

Binder for Logs - Santa Clause Project.

→ Will send logs for prints if they will be returned. Inquire!
Map Tubes. Eidel working for Hanna - remaining in this area.
6-14-66

DH YB#4 Spls to 1053. @ 4:30 6-13-66

1034 to 1053 = Altered biotite granite w/ many bands of pk to orange-colored orthoclase and occasional ½" wh. quartz veinlets crossing core at about 45°. Some sericite adjacent to the quartz veinlets. and ortho-clase bands.

Mineralization: Occasional rows of FeS_2 generally at about 45°, in pk. ortho-clase.

One pin point MoS_2 @ 1039 in .3 foot band of pk. ortho-clase.

3 or 4 pin-head MoS_2 disseminated @ 1045 in pink ortho-clase about .1 to .2 foot from thin quartz veinlet (qtz barren)

RUNS	REC %	YB-4 6-14-66
+1.5 1054-1056 1.9/2	95%	1053-1056 ALTERED BIOTITE GRANITE, MOTTLED LT GRAY-BLACK, HARD, MED. TEXTURED W/INCLUSIONS OF ORTHOCLASE GRANITE.
1056-1062 3.6 x / 6.0	CORE LOSS 60%	1055 PYRITE ALONG 0.1" QT SEAM
1062-1064 1.1/2	55%	HEMATITE ALONG FRACTURE FACE
1064-1065 0.3/1	30%	1056-1058 ORTHOCLASE GRANITE, PINK-GRAY MOTTLED MED TEXTURED CONTAINS SPARSE DISSEMINATIONS OF small MoS_2
1065-1067 1.6/2	80%	1058-1062 SERICITE AND ORTHOCLASE GRANITE, CONTAINS DISSEMINATED
1067-1069 1.8/2	90%	LARGE BLEBS OF MoS_2 1/16" X-SECTION
1069-1074 5.8/5.0	112%	VUGGY, AMETHYST @ 1060 HVY SERICITE & RESULTANT CORE LOSS 1060-1062, HVY PYRITE

1062-1065 ORTHOCLASE GRANITE, LT GRAY PINK MOTTLED, MED TEXTURED

1065-1074 BIOTITE GRANITE, LT GRAY-BLK MOTTLED, HARD MEDIUM TEXTURED, CONTAINS INCLUSIONS OF ORTHOCLASE GRANITE

1067.3 0.8" QTZ SEAM IN ORTHOCLASE GRANITE, CONTAIN KNIFE EDGE TO 1/16" MoS_2 SEAM & ALSO SPARSE LARGE BLEBS 1/16" X-SECTION MoS_2

TD 1074 4:00P 6-14-66

Check Recovery!

6-15-66

1/8 #4

1074 to 1123 TD @ 3:00PM - WOW -
Nearing Capacity of Drill

1074 to 1077 Biotite Granite, altered, bleaching increasing downward, Some Pk orthoclase in crude bands.

1077 to 1080 Highly altered, much sericite and clay, but core fairly firm

1080 to 1084 Biotite granite as 1074-1077

1084 to 1085 Highly altered, clay, soft

1085 to 1092 Biotite granite as 1074-1077

1092 to 1098.3 Biotite granite bleached to nearly white, biotite persists.

1098.3 to 1098.6 Wh. Qtz vein

1098.6 to 1103.5 Biotite GRANITE w/ several irregular bands of pk orthoclase.

1103.5 to 1109 Highly sericitized, clay, alteration of feldspars, but rather firm.

1109 to 1112.5 Altered biotite granite. Clay minerals, and some pink orthoclase

1112.5 to 1121 Highly Sericitized, clay minerals,

1121 to 1123 Fragmental wh. quartz, putty-like clay-gouge all intermixed.

Over

Mineralization: principally MoS_2 w/ lesser FeS_2

1096 1 Age (Small pea) MoS_2 along about 60° irregular qtz seam

1097 → 60° fracture with clay, including several match-head size MoS_2 and sericite

1098.3 to 1098.6 - 3 or 4 pin-pt specks MoS_2 in Qtz.

1106 - 1109 = 85° fracture w/ thin 1/4" irregular qtz seam containing numerous large blebs MoS_2 1/4" to 1/2" at sidewalls and outward into sericitized country rock (LONGITUDINAL FRAC)

MINERALIZATION (CONT)

1102.5 3/4" long thin MoS2 along hairline fracture @ 60°

1115 60° fracture, smeared w/MoS2

1118 to 1118.5 Fragmented material, Sericite, quartz, granite, w/ much pin pt. MoS2 intermixed.

1121 to 1123 Much MoS2 along sidewalls of Qtz vein up to 1/8" thick @ 70°, Also much MoS2 in quartz fragments and in the clay gouge material.

[redacted]

CARBON COPY MADE.

YB #4 6-16-66

10:20 AM

T.D. 1134 - Prep. to pull off hole.

REPORT FROM 1123 to 1134

1123 to 1123.2 Footwall of vein, cutting out of core at about 70°

1123.2 to 1134 Lt. gray- to white biotite granite. feldspars highly altered to ~~clay~~ chalky clay. Occasional bands of pink to flesh-colored orthoclase and a few bands considerably sericitized. (Typically sericite up to .5 foot mostly about .1' gradually decreasing both upward and downward from the middle)

MINERALIZATION

1123 to 1123.2 - Vein footwall consists of about 1/4" of massive MoS2

1123.8 - 45° fracture w/ pin points of MoS2 as minor smear.

1124.3 - ditto w/ smear MoS2

1125 to 1125.7 - Pk Orthoclase and sericite w/ scattered large match-head size MoS2

1126.3 - 30° frac w/ 1 pin head MoS2 on fracture face.

LHP

YB #4

6-7-66

Runs	%
670 to 675 $\frac{4.4}{5}$	88%
675 to 677 $\frac{1.8}{2}$ =	90%
677 to 680 1.4+1 = $\frac{2.4}{3}$ =	80%
680 to 680.5 $\frac{1}{.5}$ =	200%
680.5 to 681.0 $\frac{.6}{.5}$ =	120%
681 to 682 $\frac{.6}{1}$ =	60%
682 to 683.8 $\frac{1.2}{1.8}$ =	66%
683.8 to 685.8 $\frac{2.1}{2}$ =	105%
685.8 to 694 1.4+6.6 = $\frac{8}{8.2}$	97%
694 to 700 2.7+2.2 $\frac{4.9}{6}$ =	82%
700 to 704 $\frac{4}{4}$ =	100%
704 to 707.4 2.3+1 = $\frac{3.3}{3.4}$ =	97%
707.4 to 712 $\frac{4.1}{4.6}$ =	89%
712 to 715.1 $\frac{2.6}{3.1}$ =	84%
715.1 to 721.4 .4+5.3 $\frac{5.7}{6.3}$ =	91%
721.4 to 722.9 $\frac{2}{1.5}$ =	133%
722.9 to 727.8 1.5+3.3 $\frac{4.8}{4.9}$ =	98%

Runs	
727.8 to 729 $\frac{1}{1.2}$ =	83%
729 to 734 $\frac{4}{5}$ =	80%
734 to 735.2 .4+1 $\frac{1.4}{1.2}$ =	116%
735.2 to 736 $\frac{.8}{.8}$ =	100%
736 to 744 $\frac{4.8}{8}$ =	60%
744 to 748 1.9+1.9 $\frac{3.8}{4}$ =	95%
748 to 754 $\frac{5.6}{6}$ =	93
754 to 760 1.9+3.7 $\frac{5.6}{6}$ =	93
760 to 764 $\frac{4}{4}$ =	100
764 to 765.9 $\frac{1.5}{1.9}$ =	79%
765.9 to 768 $\frac{2.5}{2.1}$ =	119%
768 to 774 $\frac{5.7}{6}$ =	95%
774 to 778 .7+2.5 $\frac{3.2}{4}$ =	80%
778 to 780 $\frac{1.4}{2}$ =	70%
780 to 782.8 $\frac{2.2}{2.8}$ =	~~119~~ 78%
782.8 to 788 $\frac{4.2}{5.2}$ =	81%

Runs	
788 to 791 .9+1.8 $\frac{2.7}{3}$ =	90%
791 to 792.4 $\frac{1.4}{1.4}$ =	100%
792.4 to 796 $\frac{3.2}{3.6}$ =	89%
796 to 801 .3+2.5 $\frac{2.8}{5}$ =	56%
801 to 803 $\frac{2}{2}$ =	100%
803 to 806 $\frac{2.3}{3}$ =	77%
806 to 810 1.9+1.9 $\frac{3.8}{4}$ =	95%
810 to 813 $\frac{2.9}{3}$ =	97%
813 to 820 4.3+2.3 $\frac{6.6}{7}$ =	94%
820 - 823 $\frac{3}{3}$ =	100%
823 to 827 $\frac{3.3}{4}$ =	83%
827 to 831 $\frac{3.3}{4}$ =	83%
831 to 835.5 $\frac{4.4}{4.5}$ =	98%
835.5 to 839.5 .7+2.2 $\frac{2.9}{4}$ =	73%
839.5 to 842 $\frac{2.5}{2.5}$ =	100%
842 to 845 $\frac{2.2}{3}$ =	73%
845 to 848 1.6+1 $\frac{2.6}{3}$ =	87%
848 to 850 $\frac{2}{2}$ =	100%

ARKLA EXPLORATION CO.

COMPANY

INTERNAL CORRESPONDENCE

DATED AT WIKIEUP, ARIZ.

6/7/66

TO: Mr. R. L. Breedlove

FROM: D. P. McCarthy

SUBJECT: Core descriptions of Diamond Drill Hole - YB #4, Below 530 feet.

530 to 532 Sericite with 0.1' Qtz, pyrite, & sparse MoS_2 (2 blebs)

532 to 534 Orthoclase Granite

534 to 536 Sericite

536 to 537.5 Quartz w/MoS_2 and pyrite, heavy. (MoS_2 as irregular lenses & blebs)

To 537.5 5/24/66

537.5 to 603.X

537.5 to 539 Highly sericitized, feldspars all kaolinized.

539 to 546.5 Firm biotite granite somewhat altered; alteration decreasing downward. MoS_2: 2 pin-head size at 539 in fragment of pink orthoclase granite about 1" away from a fracture plane.

5/26/66

556 to 556.5 Quartz-sericite zone, hvy MoS_2 & Pyrite.
568 to 568.7 Fragmented sericite & qtz. MoS_2 throughout.
573 to 574 Qtz, contains very fine blebs of MoS_2
574 to 575 Sericite
580 to 580.5 Quartz, very fine MoS_2 throughout
582 to 583 Sericite & .2' Qtz. V/fine blebs MoS_2
593 to 594 Quartz sericite, very fine blebs "
596 to 597.5 Crumbled, fragmented sericite & clay, MoS_2 throughout.
602.5 to 603 Clay & Breccia - fault.

5/27/66

603 to 615.5 Highly altered biotite granite, lt-gray-green, mottled, kaolinized, sericitized.
605 to 606 MoS_2 in highly fractured crumbled granite, qtz, and sericite.
607 " along fracture-plane 50o to core.
615.5 to 617 Sericitized granite MoS_2 blebs along fracture plane at 615, 50° to core.
617 to 660 Highly altered biotite granite, lt gray, w/ black biotite spots, fractured, kaolinized.

TD 660 5/28/66 2:30pm.

660 to 706.3 Altered biotite granite, clay minerals, bands of orthoclase granite, sericite.
664 to 669 v/crse textured, w/ sericite.

Page 2. Core descriptions of DDH YB #4 Cont.

666 to 667 Long fracture w/ hematite smear.
680.3 to 681 V crse textured biotite granite
681 to 682 Sericite, moly, clay, intermixed rubble
682 to 683.8 Sericite (70%) and granite
683.8 to 684.1 Qtz, 1/8" sq. cluster of pin head size moly and pin-head size moly sparsely dissem through the rest of qtz.
684.1 to 685.4 Sericite (70%) and granite intermixed.
685.4 to 699 Altered biotite granite w/inclusions of orthoclase granite, medium textured.
699 to 700 Highly rubbled zone, 70% sericite and intermixed granite
700 to 706.3 Highly altered biotite granite w/inclusions of orthoclase granite and sericite. Discontinuous heavy pyrite seam in orthoclase at 703.
706.3 to 734.5 Altered gray biotite granite.
White quartz vein 706.5 to 707 with pyrite but w/o moly.
711 to 712 Sericite, coarse flaky, soft, good alteration
At 717, 0.1' white qtz. w/ few scattered pin point MoS_2
TD 748 at 4:00PM 6/2/66
734.5 to 778 Altered biotite granite.
At 754, 3" qtz. w/ pyrite No moly
767.5 1" qtz w/pyrite and clusters of pin-pt MoS_2 (¼" cluster)
775.5 1" qtz w/pyrite and occasional pin pts " .
776 MoS_2 band, possibly 1/4"
Bottom 3' brecciated and re-cem w/ silica.
TD 778 at 4:00PM 6/3/66
778 to 831 Altered biotite granite, much coarse sericite and clay. No MoS_2.
2' white bakken qtz.
826 to 827.2 Quartz w/ sericite along fractures.
TD 831 at 6:00 pm 6/4/66
831 to 876 Highly altered biotite granite, clay minerals to 849.
849 to 850Sericite w/MoS_2 throughout, sparse.
850 to 852 Highly altered biotite granite, clay
852 to 852.2 Fracture heavily coated with MoS_2
852 to 876 Altered biotite granite.
TD 876 at 4:00 PM 6/5/66
876 to 930 Highly altered biotite granite w/inclusions of pink orthoclase, feldspars altered to clay minerals.
888 to 888.5 Qtz frac contains MoS_2 along frac. ¼" also sparsely dissem. blebs match-head size throughout, also hematite.
913 ~~XX~~ MoS_2 1/16" along frac. plane
928 0.2'sericite coarse,Heavy MoS_2 blebs, match-head size in sericite.~~XX~~
TD 930 at 5:30pm 6/6/66

SUBJECT:

FROM:

TO: The enclosed descriptions should fill-in the ~~xxxxx~~ detail which we were unable to phone in to you the past several days.

DATED TA

INTERNAL CORRESPONDENCE

D. McCarthy

YB#4 DESCRIBED 6-7-66

660 to (706.3) Altered biotite granite, ~~[illegible]~~ clay minerals, bands of orthoclase granite, sericite.

664 to 669 v/crse textured w/sericite.

666 to 667 long fracture w/ hematite smear.

680.3 to 681 v/crse textured biotite granite altered

681 to 682 sericite, moly, clay intermixed rubble

682 to 683.8 sericite (70%) and granite

683.8 to 684.1 Qtz ~~[illegible]~~ 1/8" sq. cluster of pin head moly and pin head moly sparsely disseminated the rest of the qtz.

684.1 to 685.4 Sericite 70% and granite intermixed

685.4 to 699 Altered Biotite granite w/ intermixed orthoclase granite, medium textured.

699 to 700 Highly rubbled zone 70% sericite w/ intermixed granite

700 to 706.3 Highly altered biotite granite w/ inclusions of orthoclase granite, & sericite.

Discontinuous Heavy pyrite seam in orthoclase at 703

6-2-66

Bob has 1/B.f to 529. Send Carbon

GRANITE, gray, biotite altered.

706.3 to 734.5 - wh. Qtz vein 706.5 to 707. w/pyrite but w/o MoS2

711 to 712 — Sericite coarse flaky, soft, Good alteration

@ 717, 0.1 wh. qtz w/ few scattered pin point MoS2

TD 748 @ 4:00pm

6-3-66

1/B #4

TD 778 @ 4:00PM

Country rock-same.

734.5 to

831' = noted 2' ± white qtz, also much coarse sericite + alternation to kaolin of feldspars.

@ 754 = 3" Qtz w/pyrite NoMoS2

767.5 1" Qtz vein w/Pyrite and clusters of pin-pt MoS2 (1/4" clusters)

775.5 1" Qtz w/FeS2 and occ pin pts MoS2

MoS2 poss 1/4" band @ 776

Bottom 3' - brecciated and re-cem w/ Silica

Casing set at 300'

5-21-66

YB #4 3:00pm 366.6 ft.

Gray Biotite Granite 277.6 to 366.6

312 to 315 - Sericitized and kaolinized, soft.

321 to 326 - Kaolinized, fairly soft

@ 345 4" quartz w/ MoS_2 and FeS_2 scattered pin-head size in quartz and small blebs, up to 1/4", on sidewall w/sericite.

@ 365 MoS_2 smear on 45° fracture, also scattered match head-size MoS_2 with pk orthoclase for about 1" above the fracture.

YB-4 5-22-66

RUNS FM	TO	REC %
365²	367⁸	92
367⁸	371²	95%
3.2 / 3.4		
371²	373²	100%
2 / 2		
373²	376.0	79%
2.2 / 2.8		
376.0	382	93%
5.6 / 6		
382	384	80%
1.6 / 2		
384	387	114%
3.4 / 3		
387	390	73%
2.2 / 3		
390	393	93%
2.8 / 3		
393	396	83%
2.5 / 3		
396	403	86%
6 / 7		
403	412	93%
8.7 / 9		
412	415⁶	86%
3.1 / 3.6		
415⁶	424	95%
8 / 8.4		

CORE DESCRIPTION

FM TO

366 - 412 BIOTITE GRANITE, LT GRAY WITH PINK ORTHOCLASE INCLUSIONS, FINE TEXTURED, FRACTURE PLANES FROM 50°-70° TO CORE, PYRITE DISSEMINATED THRU-OUT.

376 - 0.2' QTZ, MoS_2 (MATCH-HEAD BLOBS) & PYRITE SCATTERED THRU.

377 MoS_2, PINHEAD IN SERICITE LENS 0.01" THICK, 70° TO CORE

412 - 413 BIOTITE GRANITE, COARSE TEXTURED

413 - 428⁸ BIOTITE GRANITE SAME AS 366 - 412 BUT PINK ORTHOCLASE MORE ABUNDANT

428⁸ 430 BIOTITE GRANITE COARSE TEXTURED

430 - (436)⁶ SAME AS 413 - 428⁸

424 - 428⁸ 97% REC

4.6 / 4.8

T.D. 440 3:30 P 5-22-66

YB-4 5-23-66

From	To	REC	From	To	DESCRIPTION
	436.6	90%	436.6	462	BIOTITE GRANITE LT GRAY-BLK MOTTLED, MED TEXTURE SOME COARSER ZONES
436.6	440?	97			
	4.0 / 4.1		454	0.5	SERICITE
			460 - 462		BLEBS MOS2 IN QTZ ASSOC w/ SERICITE
440?	446	114?			COARSE TEXTURED BLEACHED GRANITE TO 473
3.7 / 2.4	6.1 / 5.3				
446	452	75%			
	4.5 / 6				
452	455	77	462 - 473		COARSE TEXTURED LT GRAY-BLACK MOTTL GRANITE
2.1 / 5.3	2.3 / 3				
			473 - 474		SAME AS 436.6 - 462
455	460	92	474 -		COARSE AS 462 - 473.3 ORTHOGR 488 - 490
	4.6 / 5				
460	464	100			TD 493 5:00P 5-23-66
	4 / 4				
464	469	96			
	4.8 / 5				
469	474	100%			
4.6 / 5.4	.5 / 5				
474	477.4	94	488 - 490?		78
	3.2 / 3.4			2.1 / 2.7	
477.4	484	100	490?		—
5.6 / 1.0	6.6 / 6.6		1.8		
484	488	90			
	3.6 / 4.0				

YB-4 5-24-66

Fm	To	Rec	Fm	To	DESCRIPT
	-498²		498°	- 530	BIOTITE GR MOTTL GR & BLK, ALTERED
0.2					
498²-501⁸		2.7 / 2.9	937°		498² MoS_2 ALONG FRACT PLANE (SMEAR)
					0.1' CLAY (CORE LOSS)
501⁸-508		5.1 / 6.2	829°		500⁵ CLAY SEAM, CORE HIGHLY FRACT
					514-515 SERICITE
508-510		1.5 / 2	757°		515- CORE HIGHLY FRACT
0.6 / 0.9					ABUNDANT ORTHO-GR.
510-515		3.8 / 5	76		530-532 3 limit w/ 0.1' QTZ PYRITE & SPARSE MoS_2 (2 BLEBS)
515-519		0.8 / 4	20		532-534 ORTHO GR
					534-536 SERICITE
519-524		0.8 / 5	16		536-537⁵ QTZ w/ MoS_2 & PYRITE HVY (MoS₂ AS IRREGULAR LENSES & BLEBS)
					TD 537⁵ 5-24-66
524-526		2 / 2	100		RIG BROKEN ALSO TO USE FACE DISCHARGE BIT THIS ZONE
526-530		3 / 4	75		
0.3 / 2.7					
530-533		2.2 / 3	73		
533-535⁶		1.9 / 2.6	73		
535⁶-537⁵		1 / 2	50		

5-26-66

TD @ 5:15PM 551.5 core examined to 546.5

537.5 - 546.5:

537.5-539 - highly sericitized ; feldspars all kaolinized.

539 - 546.5 - firm biotite granite somewhat altered; Alteration decreasing downward.

MoS_2: 2 pin head size at 539 in fragment of pink orthoclase granite about 1" away from a fracture plane.

YB-4 5-27-66

RUNS FM TO	REC	FROM TO	DESCRIPTION
498° - 501.8		498° - 508	BIOTITE GRANITE, MOTTLED
2.8/3 = 93%	93		GRAY BLACK
			PINK ORTHOCLASE @ 505
501.8 - 508			
5.2/6.2	84		
508 - 510		508 - 602	HIGHLY ALTERED BIOTITE
1.5/2	75		GRANITE LT GREEN GRAY
510 - 515	80		W/ INCLUSIONS OF PINK
4/5			ORTHOCLASE, MANY SERICITE
515 - 519 *	22		ZONES
0.9/4		535 - 536	SERICITE
519 - 524 *	20	536	0.3' QTZ HVY MoS_2 & PYRITE
0.8/5		556 - 556.5	QTZ - SERICITE ZONE,
524 - 526	95		HVY MoS_2 + PYRITE
1.9/2		568 - 568.7	FRAGMENTED SERICITE & QTZ
526 - 530	75		MoS_2 THRU OUT
3/4		573 - 574	QTZ - CONTAINS VERY FINE
530 - 533	70		BLEBS OF MoS_2
2.1/3		574 - 575	SERICITE
533 - 535.6	28	580 - 580.5	QTZ VERY FINE MoS_2 THRU OUT
1.7/2.6		582 - 583	SERICITE + 0.2' QTZ
535.6 - 537.5	57		V. FINE BLEBS MoS_2
1.2/2.1		~~583~~ -	
537.5 - 539	94	593 - 594	QTZ & SERICITE, VERY
1.4/1.5			FINE BLEBS MoS_2
539 - 544	110	596 - 597.5	CRUMBLED - FRAGMENTED
5.5/5			SERICITE & CLAY MoS_2
544 - 551.5	91		THRU OUT
6.8/7.5		~~597.5~~ -	
551.5 - 553.8	122	602.5 - 603	CLAY & BRECCIA - FAULT
2.8/2.3			
553.8 - 560.2	92		
6.9/6.4			
560.2 - 562.2	110		
2.2/2.0			
OVER			

over →

FH TO	REC
$562^2 - 564^4$	7290
1.6/2.2	
$564^4 - 565^3$	122
1.1/0.9	
$565^3 - 569^3$	102
4.1/4.0	
$569^3 - 574$	90
4.2/4.7	
574 - 579	90
4.5/5	
579 - 583	92
3.7/4	
583 - 591	89
7.1/8	
591 - 597	85
5.1/6	
597 - 602	92
4.6/5	
602 -	
+1.7 /	

YB-4 5-28-66

RUNS FM	TO	REC	FM	TO	DESCRIPTION
602	604	114	603	615.5	HIGHLY ALTERED BIOTITE GRANITE, LT-GRAY-GREEN MOTTLED, KAOLINIZED, SERITICIZED
604	606	70	605	606	MoS_2 IN HIGHLY FRACTURED CRUMBLED GRANITE, QTZ + SERICITE.
606	608	90	607		MoS_2 ALONG FRACTURE PLANE 50° TO CORE
608	614	97	615.5	617	SERICITIZED GRANITE, MoS_2 BLEBS ALONG FRACTURE PLANE @ 615, 50° TO CORE
614	616.4	100			
616.4	623	91	617	660	HIGHLY ALTERED BIOTITE GRANITE LT GRAY W/ BLACK BIOTITE SPOTS, FRACTURED, KAOLINIZED
623	626				
626	629.8	93			
629.8	631	108			
631	641	90			
641	650	99			
650	656	95			
656	658	100			
658	662	88			
662	667	92			
667	669	125%			
669	670	100			

LOG

T.D. 660 5-28-66 2:30 P

RIG DOWN NXT RUN

HYDRAULIC FLUID TANK LEAK

ATTEMP TO BUILD NEW ONE

6:00 P 5-29-66 WIKIEUP

YB-4	REC		% REC
1074 - 1077	3.0	/ 3	100%
1077 - 1079	1.4	/ 2	70%
1079 - 1084	4.1 + 6 = 4.7	/ 5	94%
1084 - 1087	1.8	/ 3	60%
1087 - 1088	0.8	/ 1	80%
1088 - 1092	3.5	/ 4	88%
1092 - 1096	1.1 + 2.2 = 3.3	/ 4	82%
1096 - 1098	2.3	/ 2	114%
1098 - 1104	4.7 + 1.4 = 6.1	/ 6	102%
1104 - 1112.7	7.6 = 8.3	/ 8.7	95%
1112.7 - 1118.5	3.6	/ 5.8	62%
1118.5 - 1120.5	0.3	/ 2	15%
1120.5 - 1123	1.4	/ 2.5	56%
1123 - 1131	7.2	/ 8	90%
1131 - 1132	1.0	/ 1.0	100%
1132 - 1134	0.7 + 1.1 = 1.8	/ 2	90
TD 1134 YB 4			

YB # 4 5-17-66

- 149.8

149.8 - 152
2.1
2.2

152 - 158.3
5.9
+ 6.3

158.3 - 160.1
1.7
1.8

160.1 -
7.1
+

148.6 - 208.2 BIOTITE GRANITE, LT GRAY HARD, LIMONITE STAINED FRACTURES

152 MOLY BLEBS IN SERICITE - SPARSE

152 0.3' SERICITE & ORTHO

165 MoS_2 ALONG FRACT PLANE

166.5 0.3' SERICITE w/ LIMONITE STAIN

168.4 - 168.8 SERICITE, MoS_2 BLEBS ALONG FRACTURE

182-183 SERICITE

187 MoS_2 IN VUGS IN ORTHO GR w/ SERICITE.

END @ 208.2, 9:00A - 5-17-66

YB - 4

RUNS FM	TO	NX REC	CORE FM	TO	DESCRIPTION
	214		218^2	300	BIOTITE GRANITE, LT GRAY, (BIOTITE PHENO) W/INCLUSIONS OF ORTHOCLASE, THIN QTZ STRINGERS 50° TO CORE, PYRITE DISSEMINATED THRU OUT.
214	218^5	100			
0.4 / 4.1	4.5 / 4.5				
218^5	224	101			
5.6 / 5.5	5			224	MoS_2 BLEBS W/PYRITE IN 0.3' QTZ STRINGER 60° TO CORE SERICITE @ BASE. LOWER SERITICIZED ZONE 2' LONG LOWER QTZ 0.2' THICK CARRIES SPARSE MoS_2. OCCASSIONAL ZONES OF COARSER TEXTURE.
224	232	* CORE LOSS MoS_2 ZONE			
2.4 / 3.9 / 6.3	6.3 / 8.	79%			
232	242	92%			
5.1 / 4.1	9.2 / 10				
242	250				
4.9 / 3.2	8.1 / 8.0	101%			
250	255				
	3.8 / 5	77%			
255	259				
1.4 / 3.1	4.5 / 4.0	112%			
259	264				
4.7 / 5.0		94%			
264	269^9				
1.5 / 4.5	6.0 / 5.9	101			
269^9	273^1	100%			
	3.2 / 3.2				
273^1	277^6				
1.1 / 3.6	4.7 / 4.5	104			
277^6	284				
5.3 / 0.8	6.1 / 6.4	95			
284	~~289~~ 289				
	~~8~~	4.1 / 5 = 82%			

RUNS

FM	TO	REC
289	292	100%
	3 / 3	
292	299	
0.5 / 5.5	6 / 7	86%
299	300	
	1.1 / 1.0 = 110	

BX CASING TO 300'

BX CORE ↓

331-341 – CORE LOSS
NO APPAR REASON

BX ↓

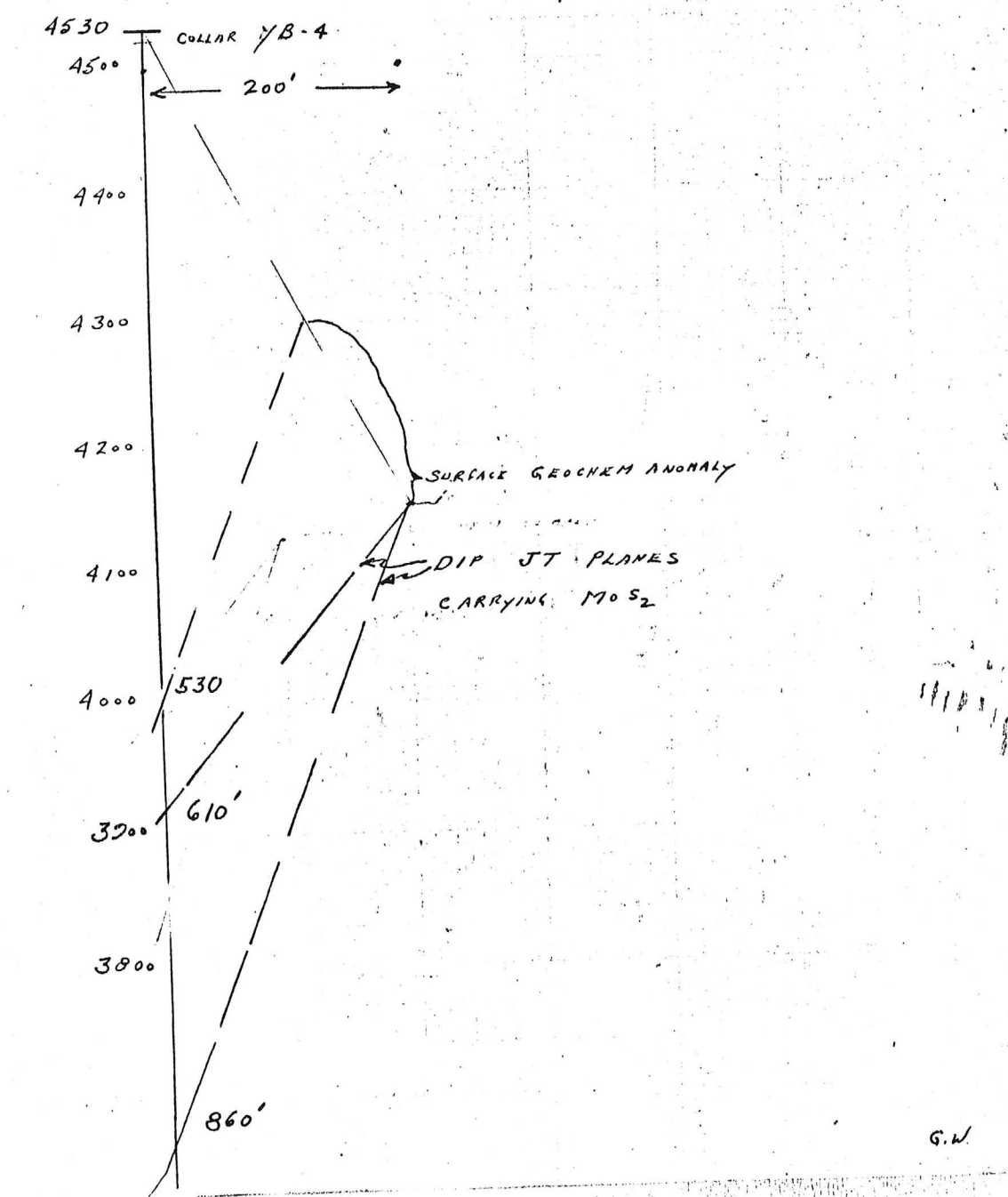
YB-4

FM - TO	REC [redacted]	FM · TO	DESCRIPTION
300 - 305 (4.8 / 5.0)	95 90	300 - 366	BIOTITE GRANITE, LT GRAY-BLACK MOTTLED, MED TEXTURE OCCASIONAL INCLUSIONS of PINK ORTHO-GRANITE, FRACTURES 60° TO CORE.
305 - 308.2 (3.5 / 3.9)	90		
308.2 - 313.4 (0.8 / 2.1; 2.9 / 4.5)	65 90	312	CLAY GOUGE 0.8'
313.4 - 317.8 (4.2 / 4.4)	96 90	320 - 326.5	HIGHLY FRACTURED ABUNDANT CLAY GOUGE
317.8 - 321 (2.3 / 1.0; 3.3 / 3.2)	103	344.5	0.2' QTZ, MoS_2 BLEBS + PYRITE
321 - 324 (2.8 / 3)	93	347	ABUNDANT ORTHO-GR
		365.2	MoS_2 SHEAR ALONG FRACT PLANE 40° TO CORE
324 - 326 (1.7 / 2)	85		
326 - 331 (2.8 / 1.5; 5.3 / 5)	106		(LOUSY JOB of CORING ABOVE INTERVAL) ESPECIALLY IN MOLY ZONE
331 - 341 (2.8 / 10)	28 90		
341 - 342 (0.9 / 1)	90 90		
342 - 347 (3.3; 4.0 / 4)	100 90	358.4 - 364 (3.6 / 5.6)	64 90 REC
347 - 349.3 (1.9 / 2.3)	83	364 - 365.2 (0.9 / 1.2)	75 90
349.3 - 354.3 (4.7 / 5)	94	365.2 - (1.3)	
354.3 - 358.4 (1.0 / 3.1; 4.1 / 4.1)	100 90		

Arkla #4 Yellow Basin

Core Description

PLAT OF SECTION N.20°W THRU Y.B-4
& GEOCHEM ANOMALY SHOWING EXPECTED DEPTH
TO MINERALIZATION



G.W.

YB 4

10 - 15.6 $\frac{2.8}{5.6}$ = 50%

15.6 - 19.8 $\frac{4.1}{4.2}$ = 98%

19.8 - 23.1 $\frac{3.5}{3.3}$ = 95%

1.7
1.8
3.5

23.1 - 27.0 $\frac{3.0}{3.9}$ = 77%

27.0 - 29.3 $\frac{2.1}{2.3}$ = 91%

29.3 - 33.3 $\frac{3.8}{4.0}$ = 95%

1.4
2.4

33.3 - 36.6 $\frac{3.3}{3.3}$ = 100%

36.6 - 40 $\frac{2.9}{3.4}$ = 86%

40 - 43 $\frac{2.3}{3}$ = 77%

43 - 46 $\frac{3}{3}$ = 100

46 - 50 $\frac{3.2}{4}$ = 80%

2.5
.7

50 - 51 $\frac{1}{1}$ = 100%

51 - 54 $\frac{2.7}{3}$ = 91%

54 - 59 $\frac{4.7}{5}$ = 94%

3.3
1.4

59 - 63 $\frac{4}{4}$ = 100%

63 - 67 $\frac{4.2}{4}$ = 105%

3.4
0.8
4.2

67 - 74 $\frac{7.5}{7}$ = 108%

74 - 79.3 $\frac{5.0}{5.3}$ = 95%

0.3
4.7

79.3 - 89.6 $\frac{10.2}{10.3}$ = ~~93%~~ 99%

4.5
5.7

89.6 - 94.7 $\frac{4.8}{5.1}$ = 94%

3.3
1.5

94.7 - 100.2 $\frac{5.6}{5.5}$ = 101%

100.2 - 104.8 $\frac{4.6}{4.6}$ = 100%

1.9
+2.7

104.8 - 114.0 $\frac{8.3}{9.2}$ = 90%

6.2
+2.1

114.0 - 122 $\frac{7.4}{8.0}$ = 92%

7.1
+0.3

122 - 128 $\frac{5.9}{6.0}$ = 99%

128 - 134 $\frac{5.9}{6.0}$ = 99%

2.9
+3.0

134 - 139 $\frac{5.8}{5.0}$ = 115%

139 - 145 $\frac{6.0}{6.0}$ = 100%

0.3
+5.7

145 - 149.8 $\frac{4.8}{4.8}$ = 90%

3.2
1.1

149.8 - 152 $\frac{2.1}{2.2}$ = 96%

YB-4

FROM	TO	FACTOR	% REC
152	-158^{2}	$\frac{5.9}{6.2}$	= 96%
5.9			
+			
158^{2}	-160^{1}	$\frac{1.7}{1.9}$	= 90%
160^{1}	-168	$\frac{7.3}{7.9}$	= 92%
6.9			
4			
7.3			
~~168~~	168-174	$\frac{5.6}{6.0}$	= 93%
174	-183	$\frac{8.5}{9.0}$	= 94%
3.0			
5.5			
183	-190	$\frac{6.4}{7}$	= 92%
3.1			
+ 3.3			
190	-194	$\frac{3.9}{4.0}$	= 97%
194	-199^{8}	$\frac{5.3}{5.8}$	= 92%
1.6			
3.7			
199^{8}	-205^{1}	$\frac{5.0}{5.3}$	= 95%
5.0			
205^{1}	-208^{7}	$\frac{3.7}{3.7}$	= 100%
208^{7}	$-$		

YB #4

Kingman 8/24/66

Splng DH #4 Cores. & 8/29/66

Describe 778 to 826!

MoS2 shows:

~~65½~~ 1414

90½ Exam, Not Cut!

111 " " "

124½ to 125 Exam, Not Cut!

~~137~~ } 1415
~~139.5~~

143 Exam, Not Cut!

144 " " "

~~152~~ } 1416
~~157~~

~~165~~ } 1417
~~166.5~~
~~168.4-168.9~~

182-183 Exam, Not Cut!

187 186.5-192.0 } 1418

224 Exam, Not Cut!

312 " " "

344.5 " " "

365.2 }
345 } " " "
365 }

376-76.2 } Exam, " "
377 }

~~460-62~~ Spl 1405

498.9 Exam, Not Cut

530-32 } 530-537.5 Spl # 1419
536-537.5 }

556-556.5

539 - Exam, Not Spld.

568-568.7 } 1420
573-74 }

580-80.5 } 578-583 1421
582-583 }

593-594 } 592-597.5 1422
596-97.5 }

605-606 } 604-608 1423
607 }

615.5-617 Exam, Not Spld.

680-681 = 1425

681-82 1424

682.685.8

683.8-684.1 = 1426

717-717.1 Exam, Not Spld.

767.5 " " "

~~775.5~~ } 1406
~~776~~ }

849-850 } 848 to 854 #1429
852-852.2 }

888-888.5 } Exam, N.S. fair sho in qtz

913 910-915 #1430

~~968~~

927.5-928 #1431

938-938.3 { Exam N.S.

948.5-949.3 { " " Good sho qtz

968 } 967 to 976 #1432
972 }

782.8 to 788 #1427 797 N.S. 816.5 to 819 #1428

~~983~~ } 1407
~~985.4~~ }

995 Exam, N.S.

999-999.5 } 998.5 to 1003 #1433
1002 }

1008-1009 Exam, NS.

1029.5-1030.5 N.S.

1039 NS

1045 "

1056-1058 } #1434
1058-1062 }

1067.3 N.S.

~~1096~~ } 1413
~~1097~~ }
~~1098.3-1098.6~~ }

~~1106 to 1109~~ 1411

~~1112.5~~ 1412

~~1115~~ } 1409
~~1118-1118.5~~ }

~~1121-1123~~ 1408

~~1123-23.2~~ } 1410
~~1123.8~~ }
~~1124.3~~ }
~~1125~~-1125.7 }
~~1126.3~~ }

YB #4 TD 1134
6/16/66

START
10:30 PM
5-13-66

YB #4

MAY 16, 1966

GRAY Biotite GRANITE
0 - 148.6

NC 0 to 10' Recovered 4' of milled fragments and blocks showing malachite staining on fracs. Limonite

NX

10 to 49
decreasing malachite downward

49 to 148.6 Less weathered, oxidized, gray biotite granite.
Decreasing limonite downward
Moly noted @ 65½' small dissem. (3 or 4 pin-head sizes) in crse pk ortho-granite about 1" from a sericite seam
90½' (1 pin-head dissem in granite)
111' 3 pin-head size dissem along frac. in granite

124½ to 125 Wh. vuggy qtz. w/ malachite in vugs. also pyrite, and 2-pin-head size MoS_2 noted.

137' 1-match-head size MoS_2 on frac. in granite.

139.5 ½" qtz w sericite walls. smear MoS_2 on frac. in sericite. also two or 3 pin-head MoS_2 w sericite.

143' ¼" qtz w/very fine pin pt. MoS_2 scattered near walls.
144' 1-match-head in granite

FRACTURES & JOINTS at 45° to about 80° with 60° predominating.

Same

1.05
7.30

YB #4

Rais

850 to 854
$\frac{4}{4}$ = 100%

854 to 858
1.9 + 1.7
$\frac{3.6}{4}$ = 90%

858 to 864
$\frac{5.7}{6}$ = 95%

864 to 867
1.8 + 1
$\frac{2.8}{3}$ = 93%

867 to 873
$\frac{5.4}{6}$ = 90%

873 to 880
2.6 + 4.7
$\frac{7.3}{7}$ = 105%

880 to 882
$\frac{1.3}{2}$ = 65%

882 to 883
$\frac{.3}{1}$ = 33%

883 to 886
2.3 + .4
$\frac{2.7}{3}$ = 90%

886 to 889
$\frac{2}{3}$ = 67%

889 to 894
$\frac{4.8}{5}$ = 96%

894 to 897.8
.7 + 1.8
$\frac{2.5}{3.8}$ = 66%

897.8 to 902.5
$\frac{3.9}{4.7}$ = 83%

902.5 to 912.5
3.0 + 6.7
$\frac{9.7}{10}$ = 97%

912.5 to 917
2.2 + 2.1
113 91.0%

917 to 921
$\frac{3.4}{4}$ = 85%

921 to 924
2.6 + 1.
$\frac{3.6}{3}$ = 120%

924 to 930
$\frac{5}{6}$ = 83%

930 to 932
$\frac{1.4}{2}$ = 70%

932 to 935
.8 + 1.6
$\frac{2.4}{3}$ = 80%

935 to 939
$\frac{3.7}{4}$ = 93%

939 to 944
3.5 + 1.6
$\frac{5.1}{5}$ = 102%

944 to 954
7.6 + 1.2
$\frac{8.8}{10}$ = 88%

954 to 962
$\frac{7.6}{8}$ = 85%

962 to
+.2