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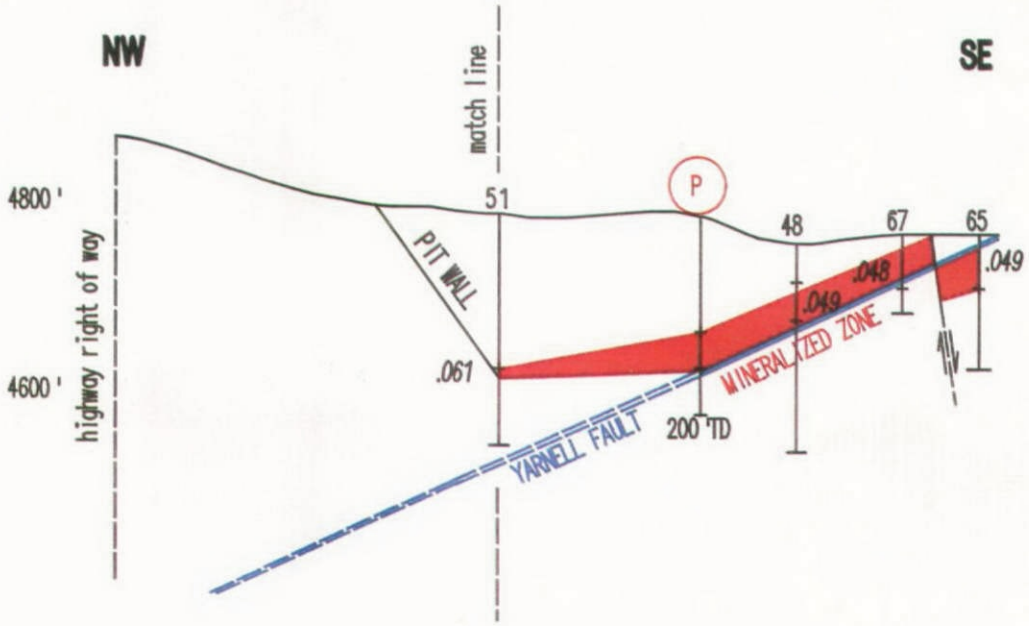
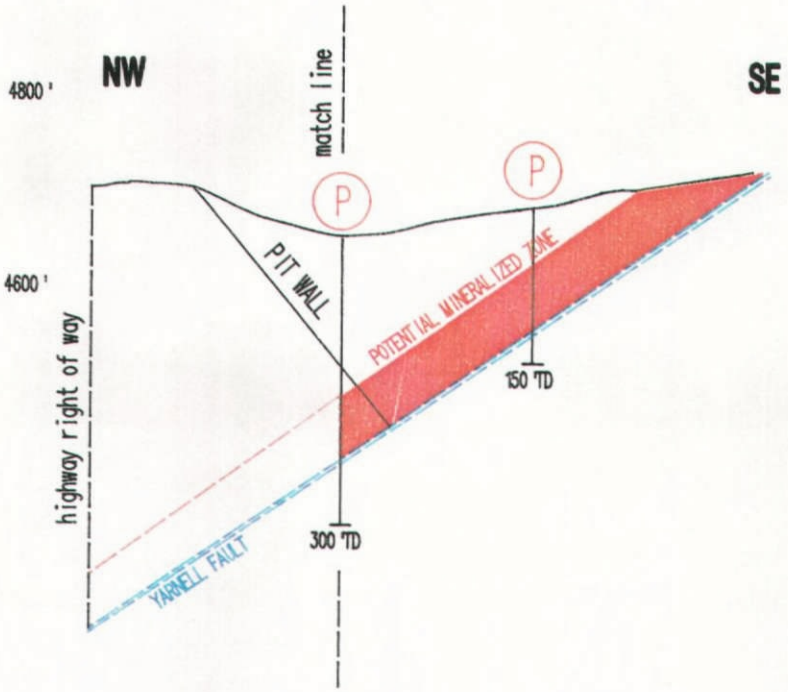
PLATE 4A



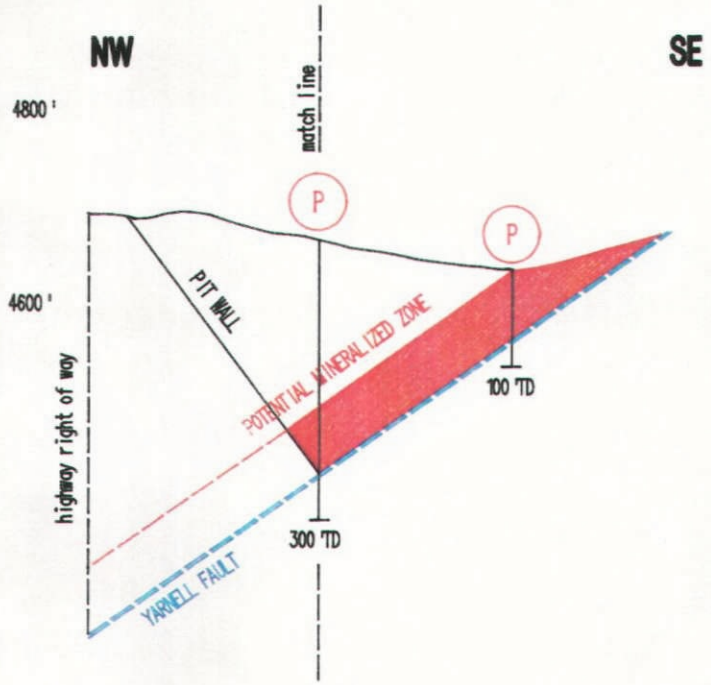
ASARCO Incorporated
YARNELL PROJECT
PROPOSED DRILLING
SECTION 1
YAVAPAI CO., ARIZONA
1"-200'

mn 6836 mam/dam tuc 2-2-90
file YPD-SEC1.DWG



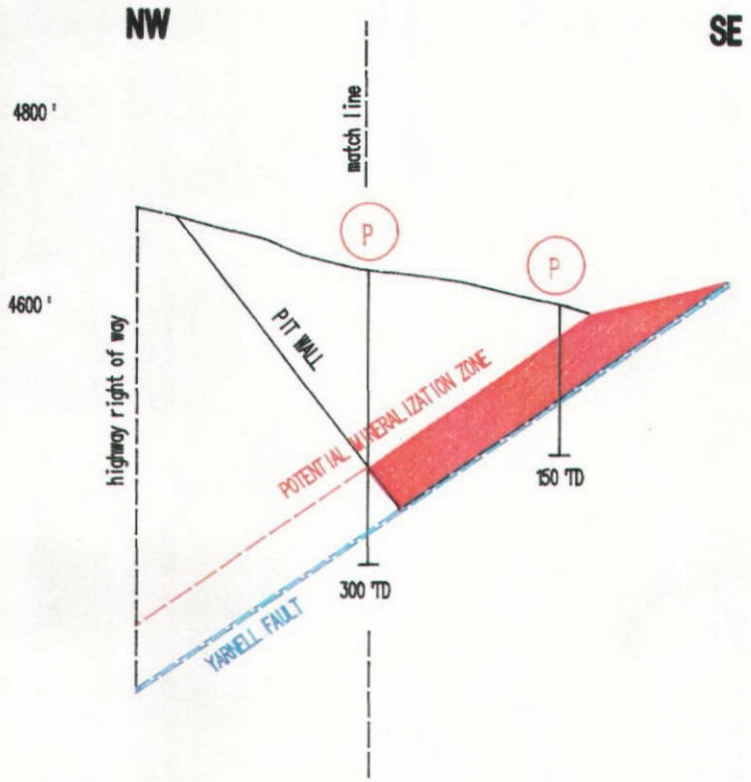
ASARCO Incorporated
YARNELL PROJECT
PROPOSED DRILLING
SECTION 2
YAVAPAI CO., ARIZONA
1"-200'

mn 6837 mam/dam tuc 2-2-90
file YPD-SEC2.DWG



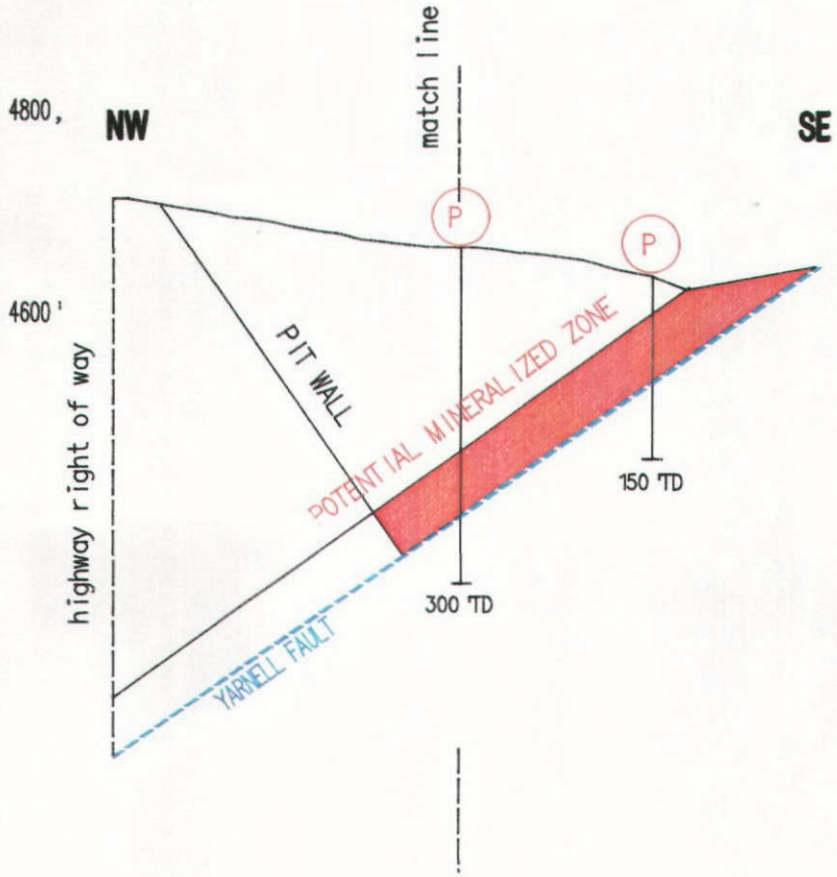
ASARCO Incorporated
YARNELL PROJECT
PROPOSED DRILLING
SECTION 3
YAVAPAI CO., ARIZONA
1"-200'

mn 6838 mam/dam tuc 2-29-90
file YPD-SEC4.DWG



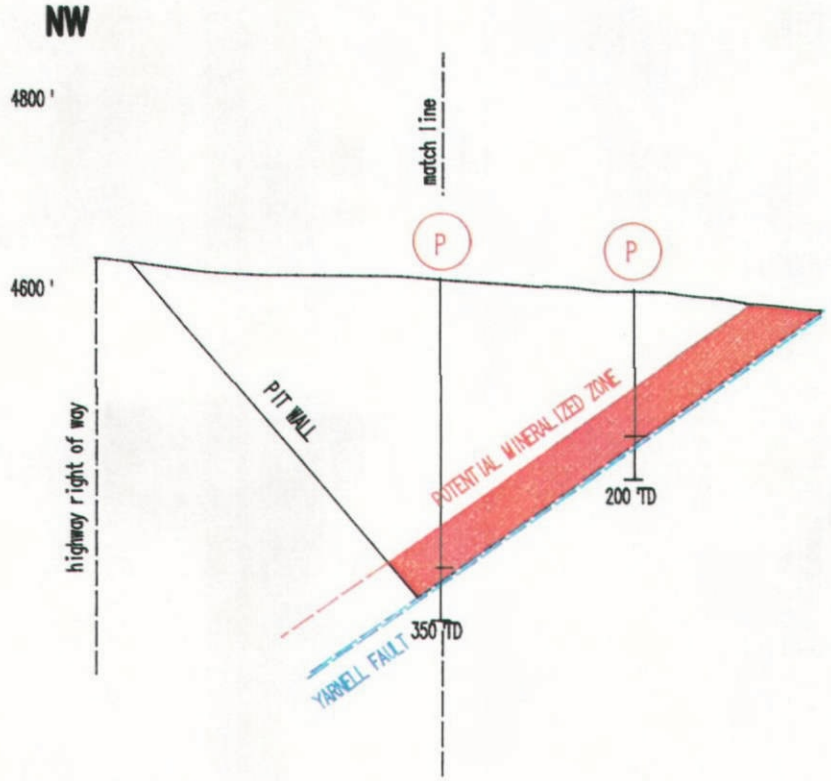
ASARCO Incorporated
YARNELL PROJECT
PROPOSED DRILLING
SECTION 4
YAVAPAI CO., ARIZONA
1"-200'

mn 6839 mam/dam tuc 2-2-90
file YPD-SEC4.DWG



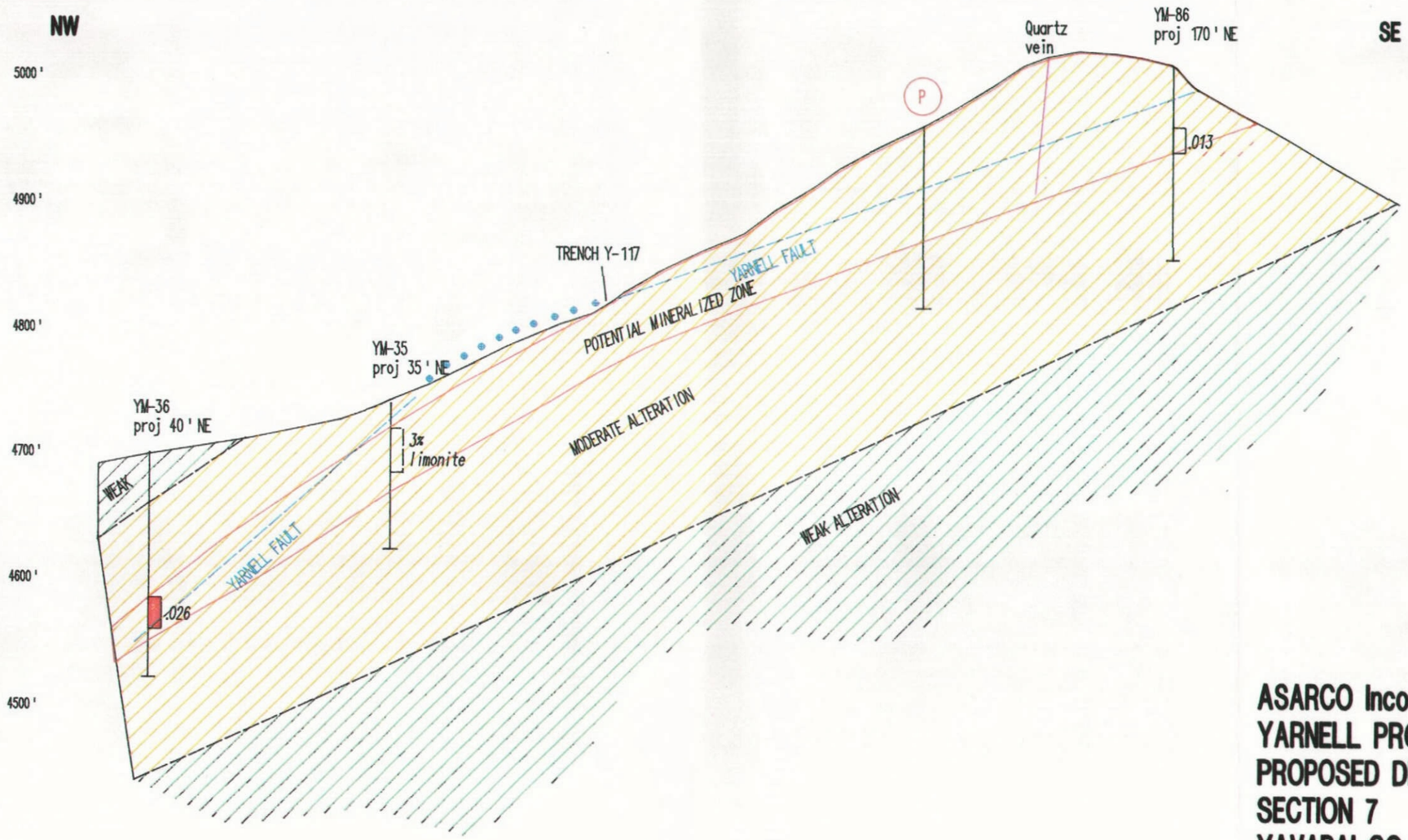
ASARCO Incorporated
YARNELL PROJECT
PROPOSED DRILLING
SECTION 5
YAVAPAI CO.,ARIZONA
1"-200'

mn 6835 mam/dam tuc 2-2-90
file YPD-SEC5.DWG



ASARCO Incorporated
YARNELL PROJECT
PROPOSED DRILLING
SECTION 6
YAVAPAI CO., ARIZONA
1"-200'

mn 6840 mam/dam tuc 2-5-90
file YPD-SEC6.DWG

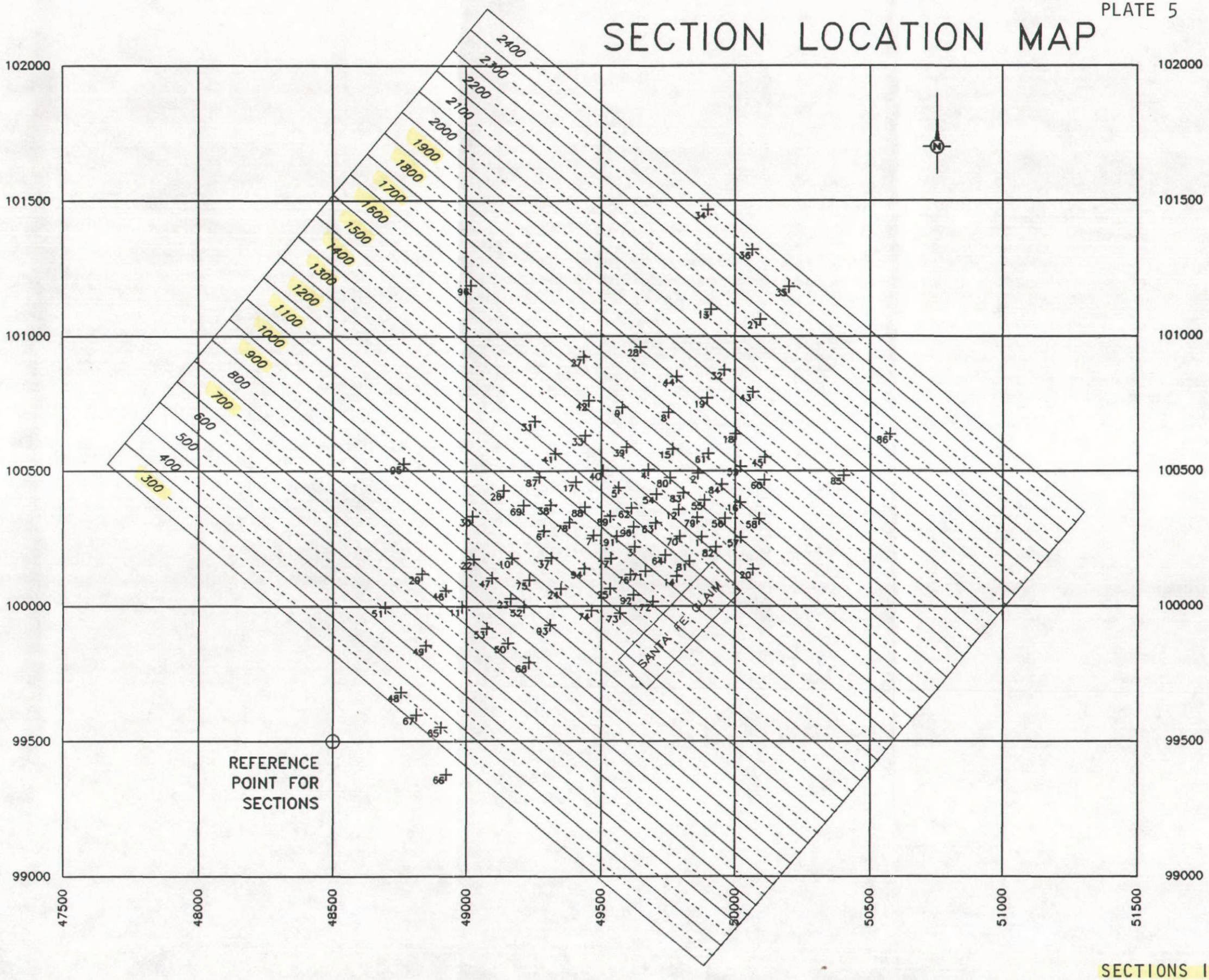


ASARCO Incorporated
YARNELL PROJECT
PROPOSED DRILLING
SECTION 7
YAVAPAI CO., ARIZONA
1"-100'

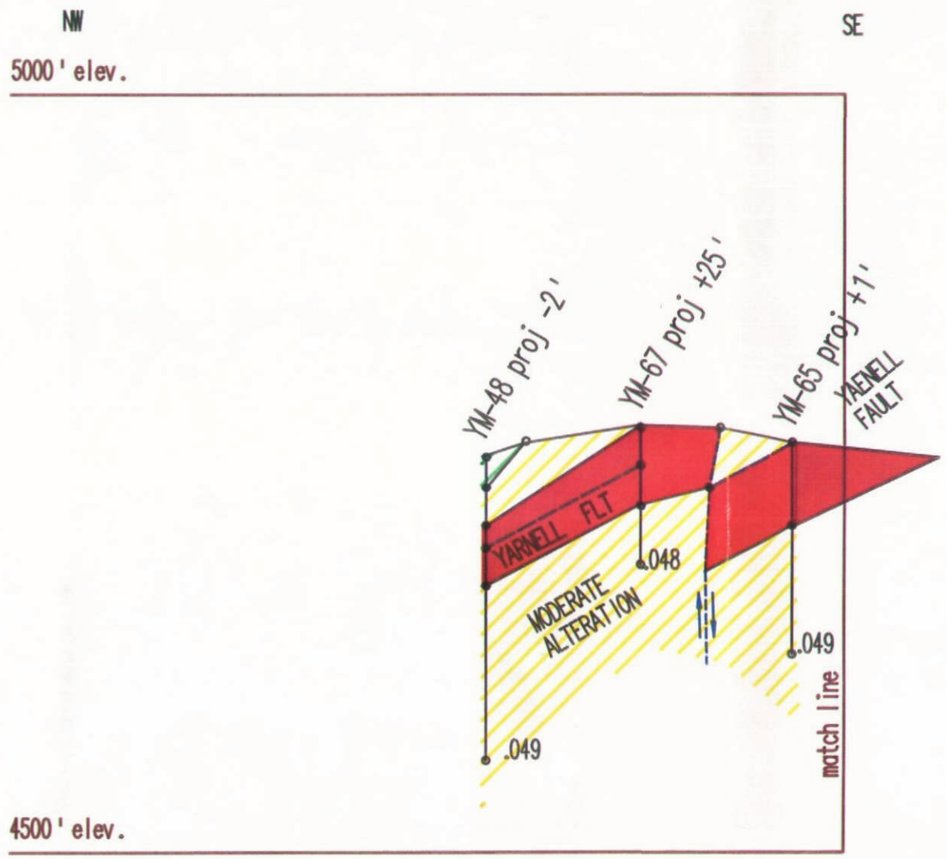
mn 6843 mcm/dcm tuc 2-6-90
file YPD-SEC7.DWG

PLATE 5

SECTION LOCATION MAP



SECTIONS INDEX



LOOKING N. 40° E.

EXPLANATION

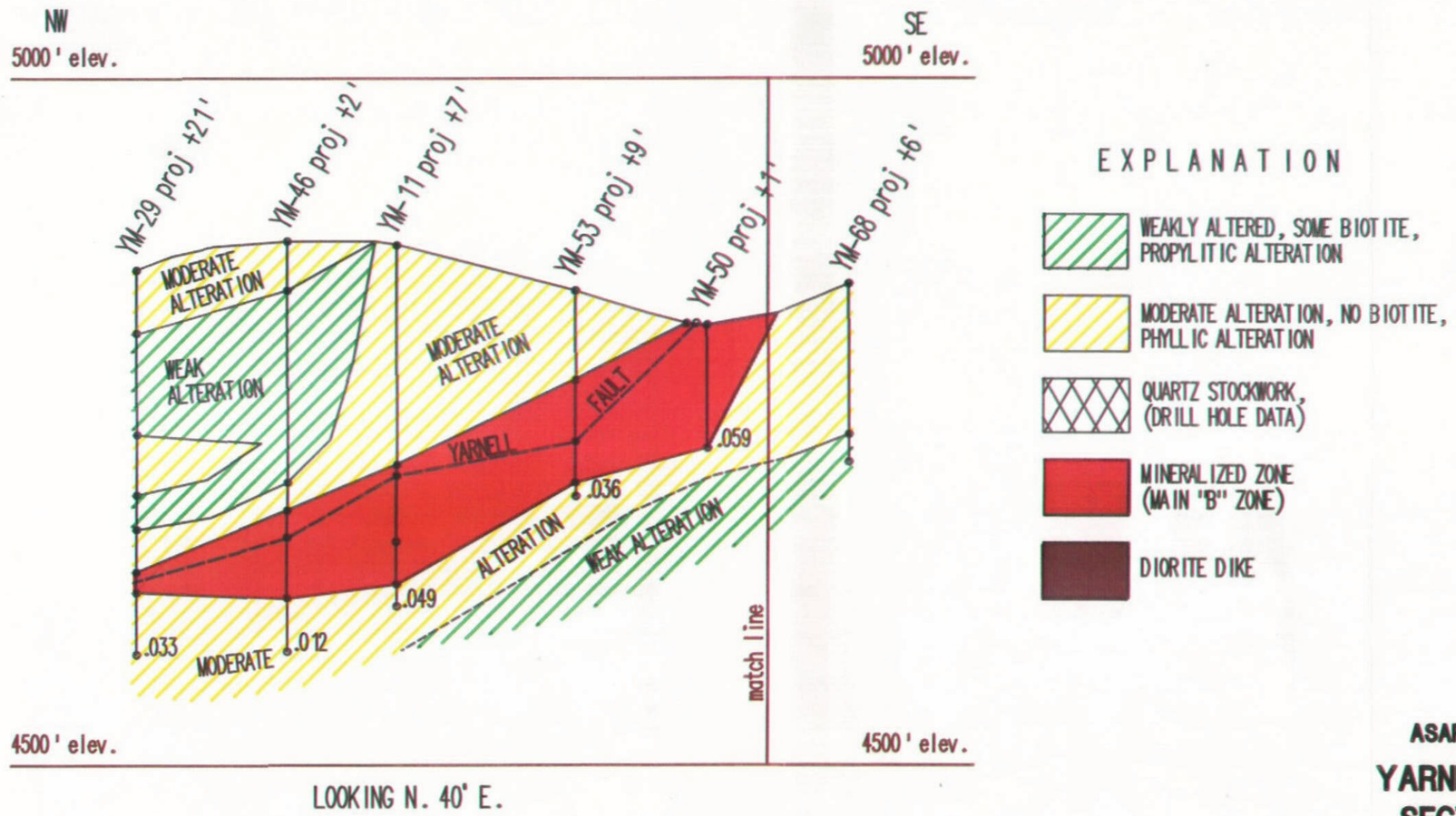
- WEAKLY ALTERED, SOME BIOTITE, PROPYLITIC ALTERATION
- MODERATE ALTERATION, NO BIOTITE, PHYLLIC ALTERATION
- QUARTZ STOCKWORK, (DRILL HOLE DATA)
- MINERALIZED ZONE (MAIN "B" ZONE)
- DIORITE DIKE

ASARCO Incorporated

YARNELL PROJECT
SECTION 300
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6912 MAM/dam tuc 3-20-90
file YAR-6912.DWG

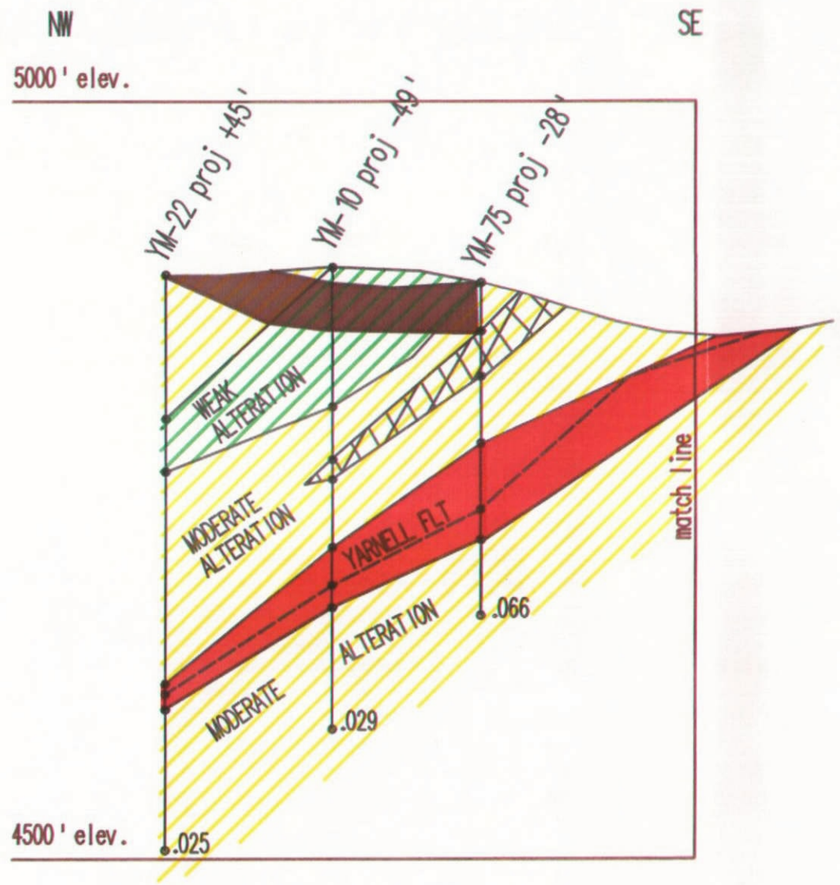


ASARCO Incorporated

YARNELL PROJECT
SECTION 700
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6913 MAM/dam tuc 3-20-90
file YAR-6913.DWG



LOOKING N. 40° E.

EXPLANATION

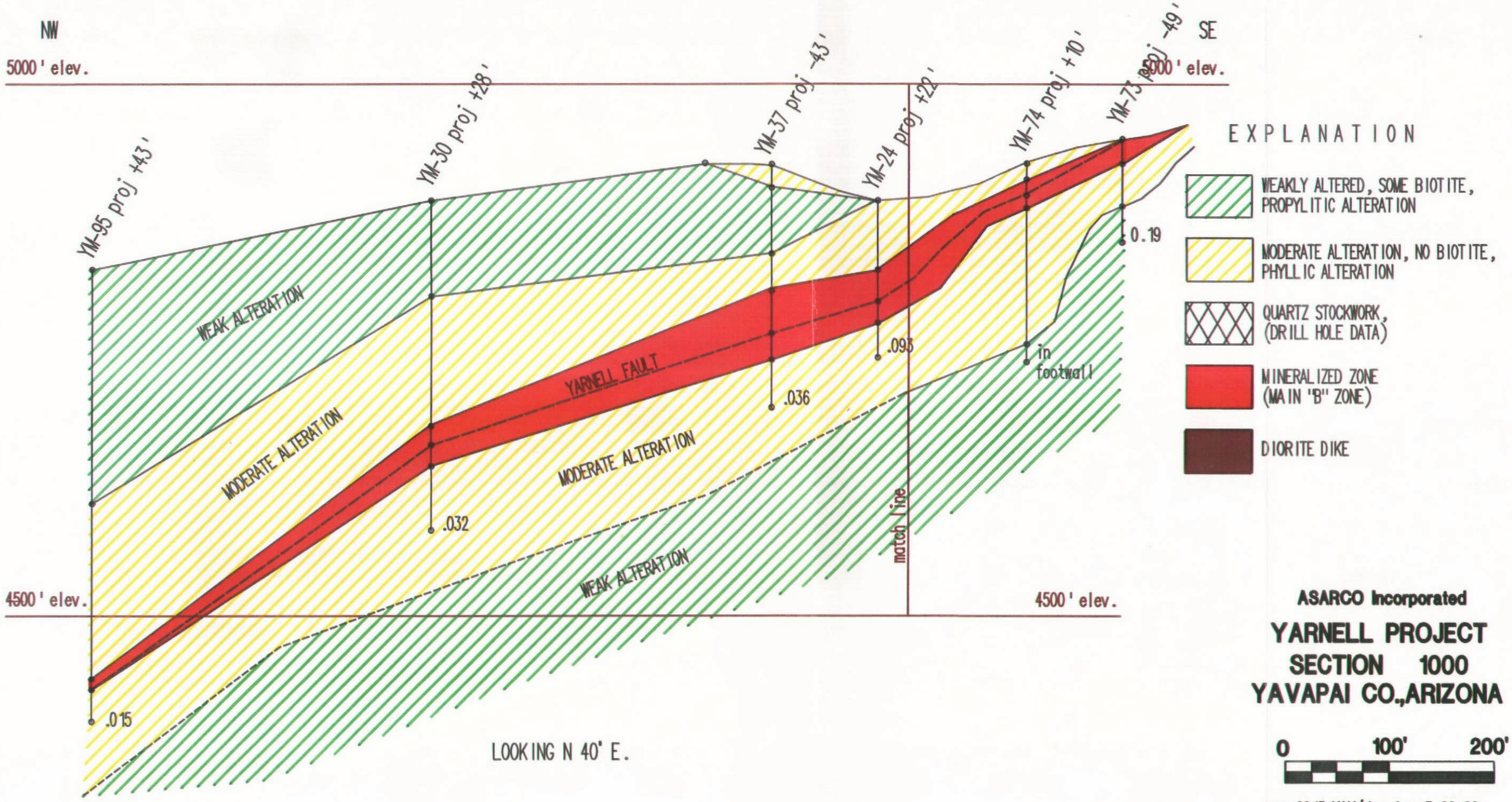
- WEAKLY ALTERED, SOME BIOTITE, PROPYLITIC ALTERATION
- MODERATE ALTERATION, NO BIOTITE, PHYLLIC ALTERATION
- QUARTZ STOCKWORK, (DRILL HOLE DATA)
- MINERALIZED ZONE (MAIN "B" ZONE)
- DIORITE DIKE

ASARCO Incorporated

YARNELL PROJECT
SECTION 900
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6914 MAM/dam tuc 3-20-90
file YAR-6914.DWG

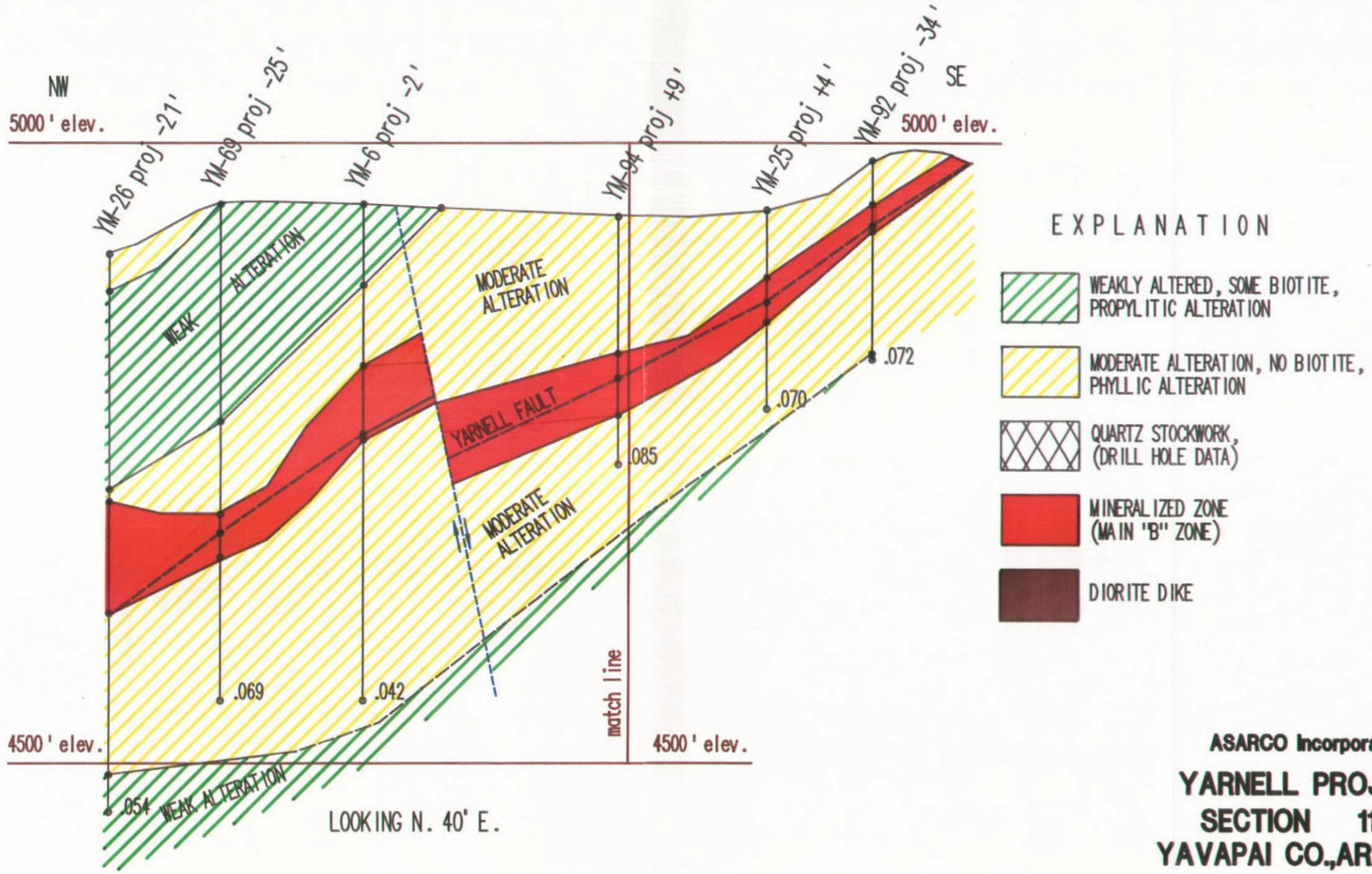


ASARCO Incorporated

YARNELL PROJECT
SECTION 1000
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6915 MAM/dam tuc 3-20-90
file YAR-6915.DWG



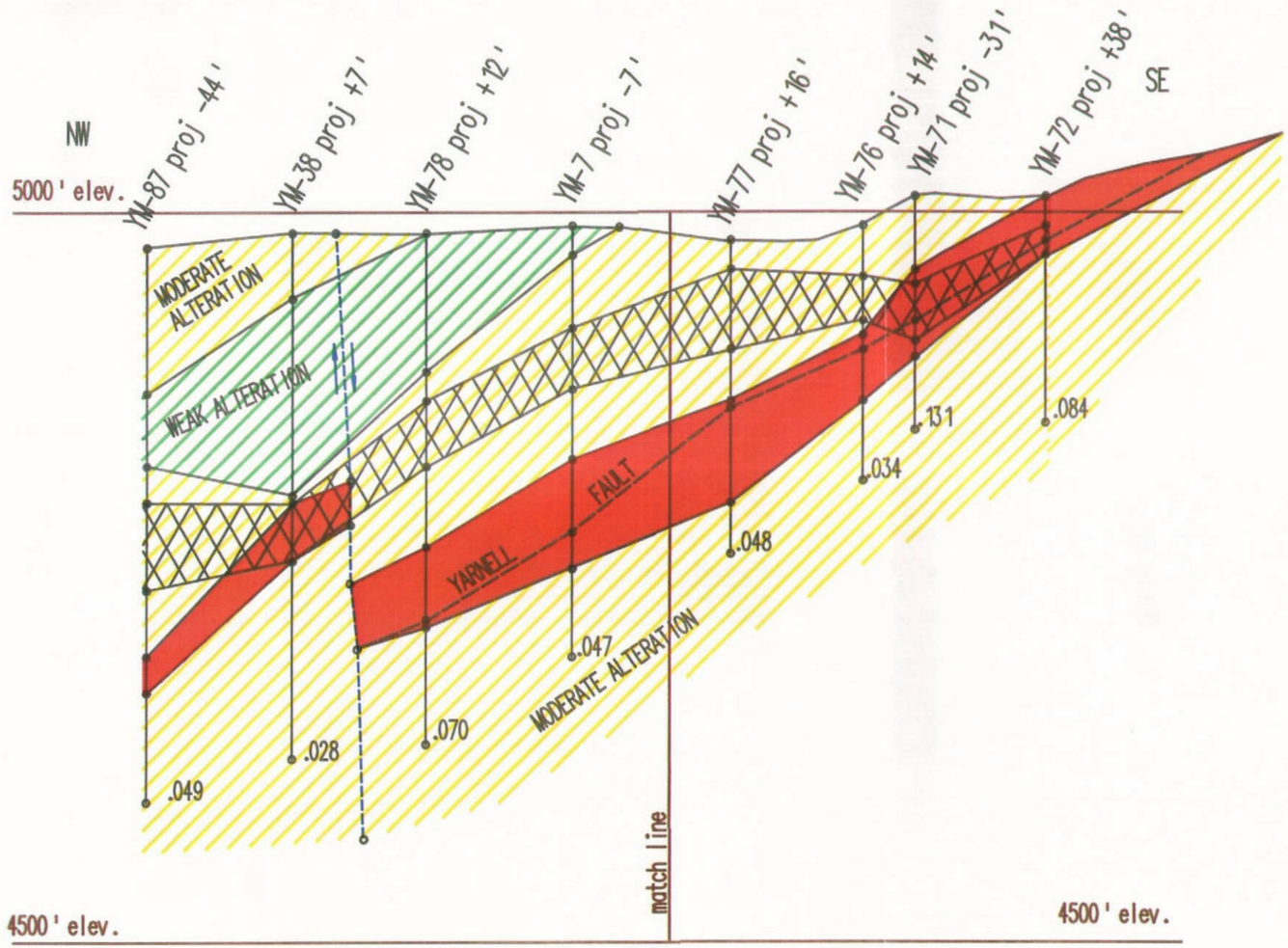
ASARCO Incorporated

YARNELL PROJECT
SECTION 1100
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6916 MAM/dam tuc 3-20-90
file YAR-6916.DWG

PLATE 5F



LOOKING N. 40° E.

EXPLANATION

- WEAKLY ALTERED, SOME BIOTITE, PROPYLITIC ALTERATION
- MODERATE ALTERATION, NO BIOTITE, PHYLLIC ALTERATION
- QUARTZ STOCKWORK, (DRILL HOLE DATA)
- MINERALIZED ZONE (MAIN "B" ZONE)
- DIORITE DIKE

ASARCO Incorporated

YARNELL PROJECT
SECTION 1200
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6917 MAM/dam tuc 3-20-90
file YAR-6917.DWG

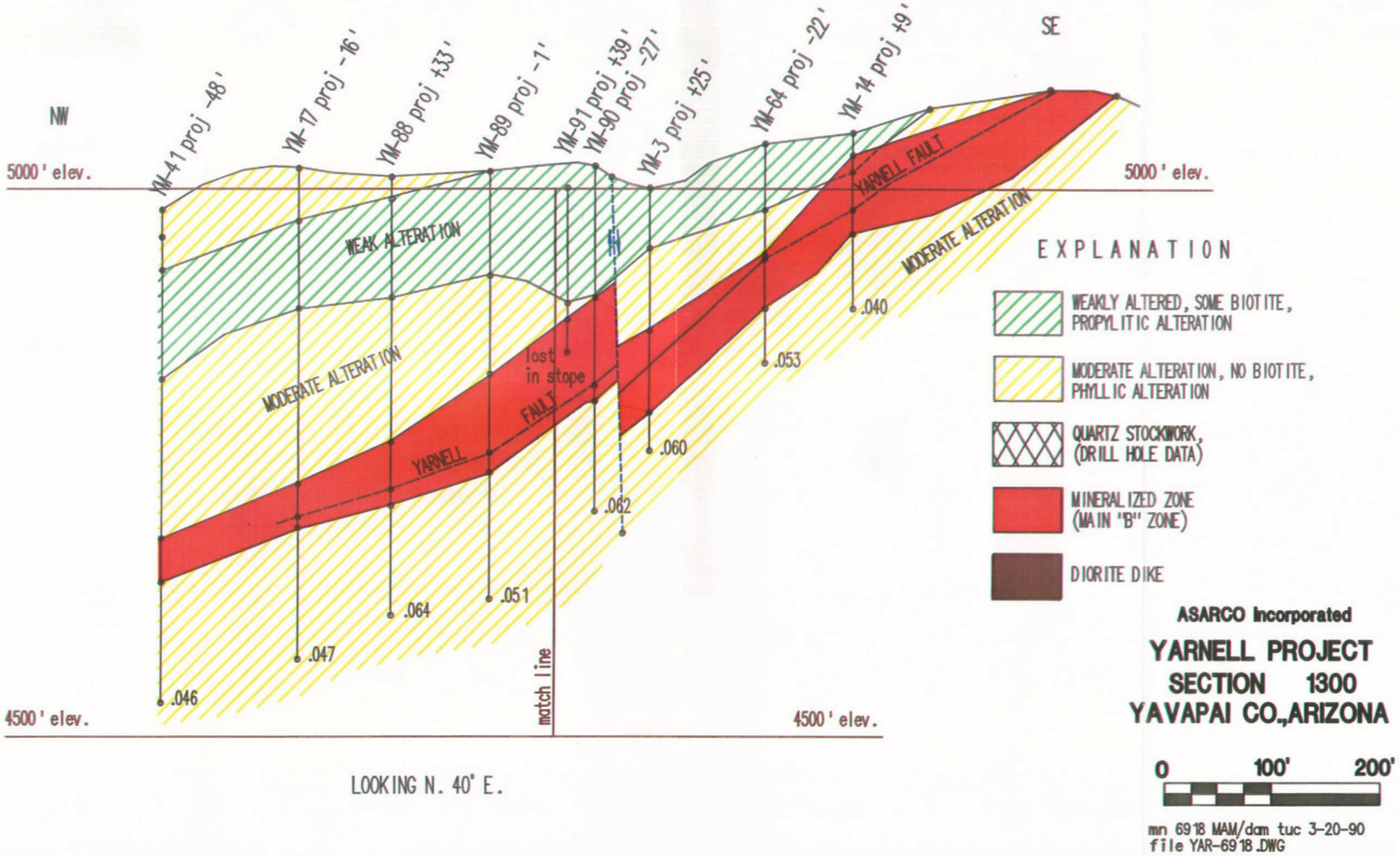
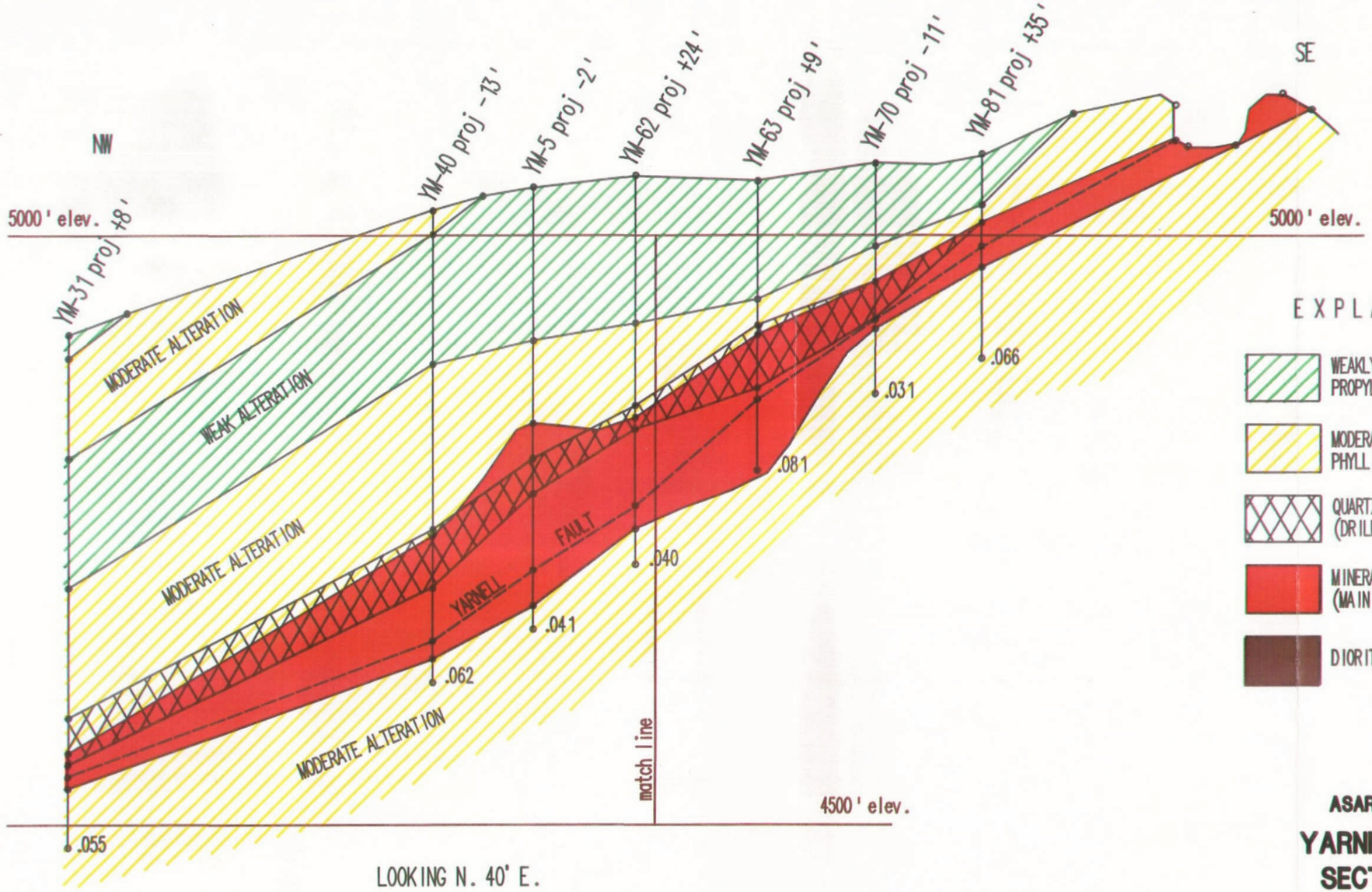

NW
SE
5000' elev.
5000' elev.
4500' elev.
4500' elev.
YM-41 proj -48'
YM-17 proj -16'
YM-88 proj +33'
YM-89 proj -1'
YM-91 proj +39'
YM-90 proj -27'
YM-3 proj +25'
YM-64 proj -22'
YM-14 proj +9'
WEAK ALTERATION
MODERATE ALTERATION
MODERATE ALTERATION
YARNELL FAULT
YARNELL FAULT
lost in stope
.046
.047
.064
.051
.062
.060
.053
.040
match line
LOOKING N. 40° E.
EXPLANATION
WEAKLY ALTERED, SOME BIOTITE, PROPYLITIC ALTERATION
MODERATE ALTERATION, NO BIOTITE, PHYLLIC ALTERATION
QUARTZ STOCKWORK, (DRILL HOLE DATA)
MINERALIZED ZONE (MAIN "B" ZONE)
DIORITE DIKE
ASARCO Incorporated
YARNELL PROJECT
SECTION 1300
YAVAPAI CO.,ARIZONA
0
100'
200'
mn 6918 MAM/dam tuc 3-20-90
file YAR-6918.DWG

PLATE 5H



LOOKING N. 40' E.

EXPLANATION

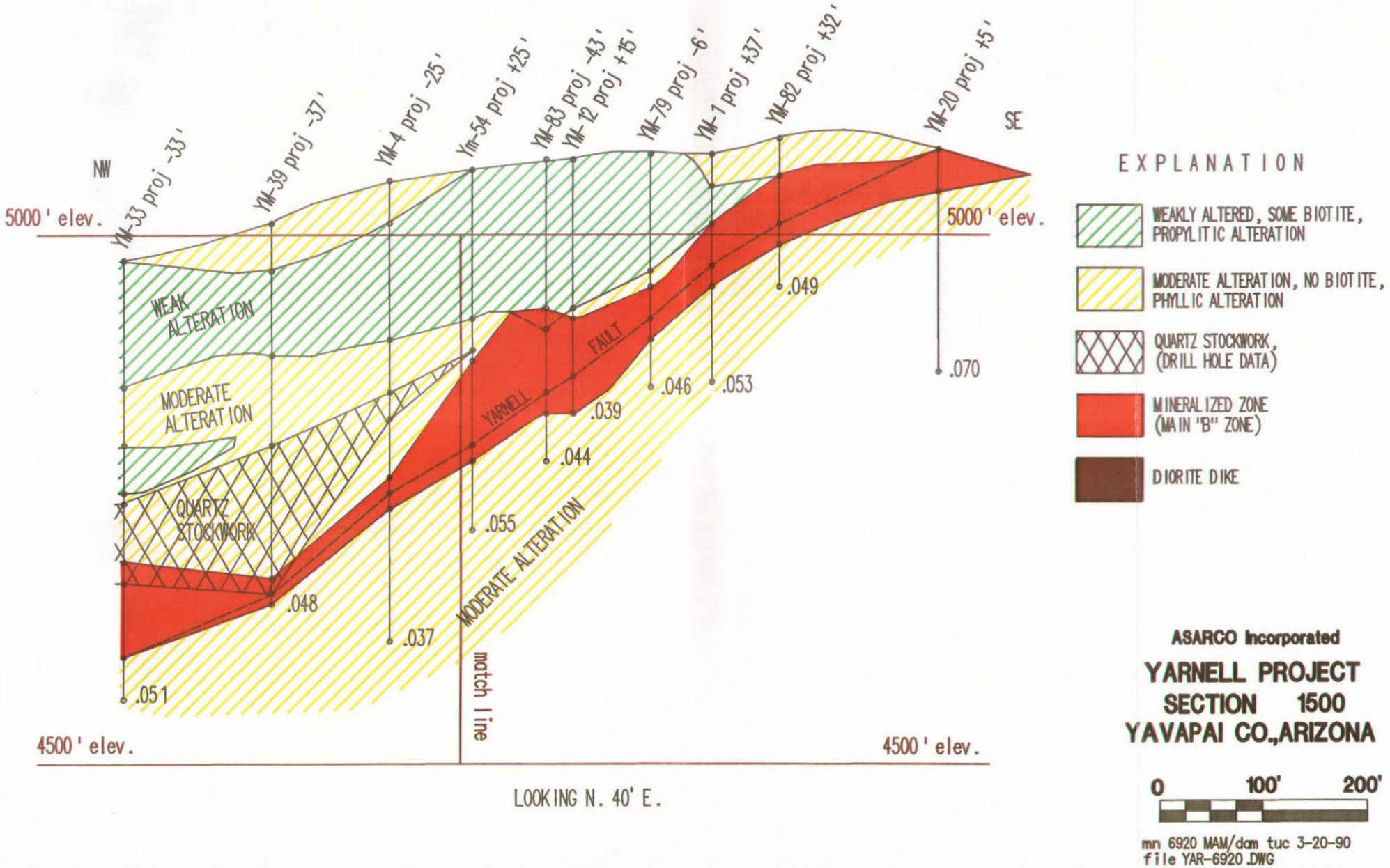
- WEAKLY ALTERED, SOME BIOTITE, PROPYLITIC ALTERATION
- MODERATE ALTERATION, NO BIOTITE, PHYLLIC ALTERATION
- QUARTZ STOCKWORK, (DRILL HOLE DATA)
- MINERALIZED ZONE (MAIN "B" ZONE)
- DIORITE DIKE

ASARCO Incorporated

YARNELL PROJECT
SECTION 1400
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6919 MAM/dam tuc 3-20-90
file YAR-6919.DWG



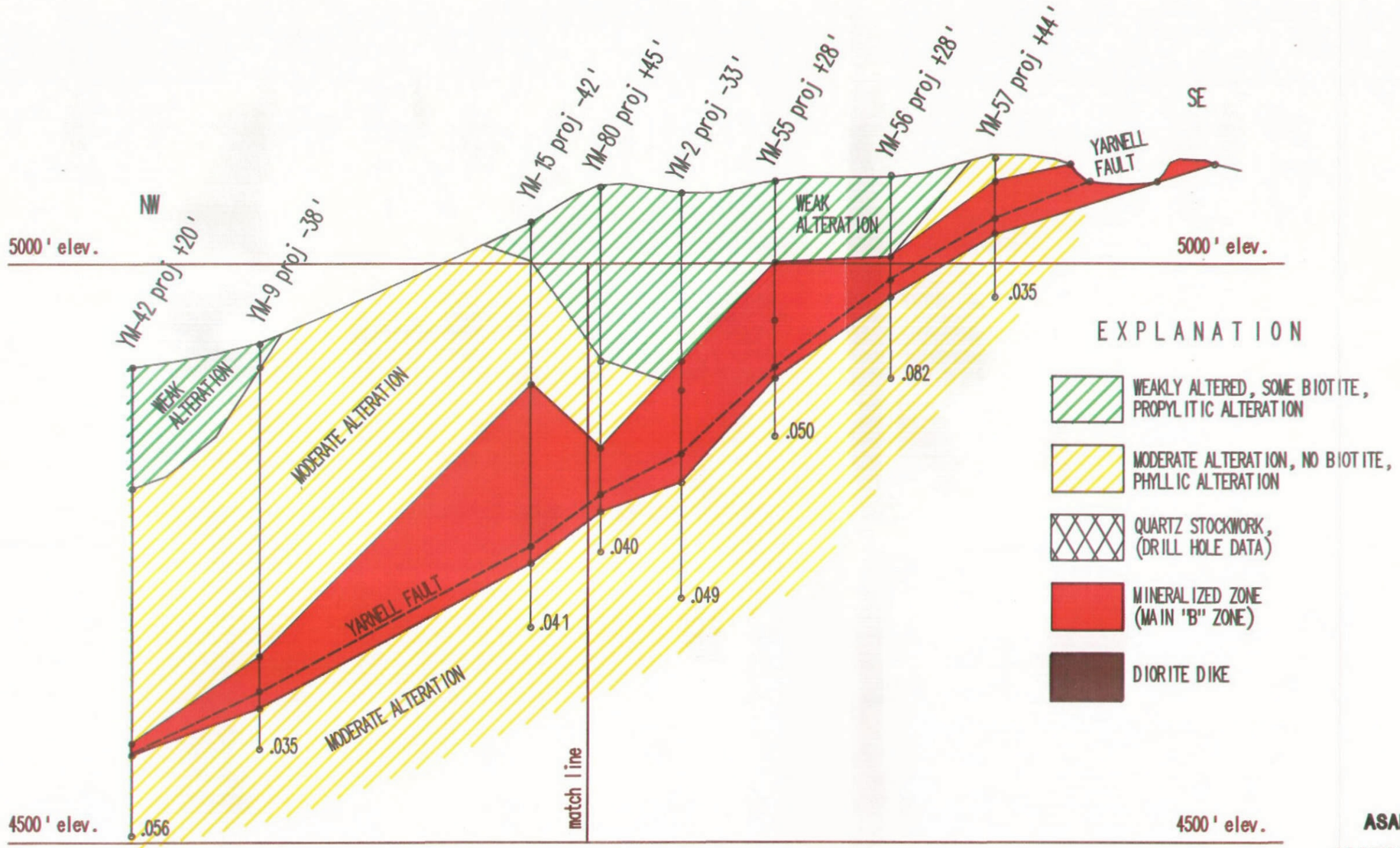
ASARCO Incorporated

YARNELL PROJECT
SECTION 1500
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6920 MAM/dam tuc 3-20-90
file YAR-6920.DWG

PLATE 5J



LOOKING N. 40° E.

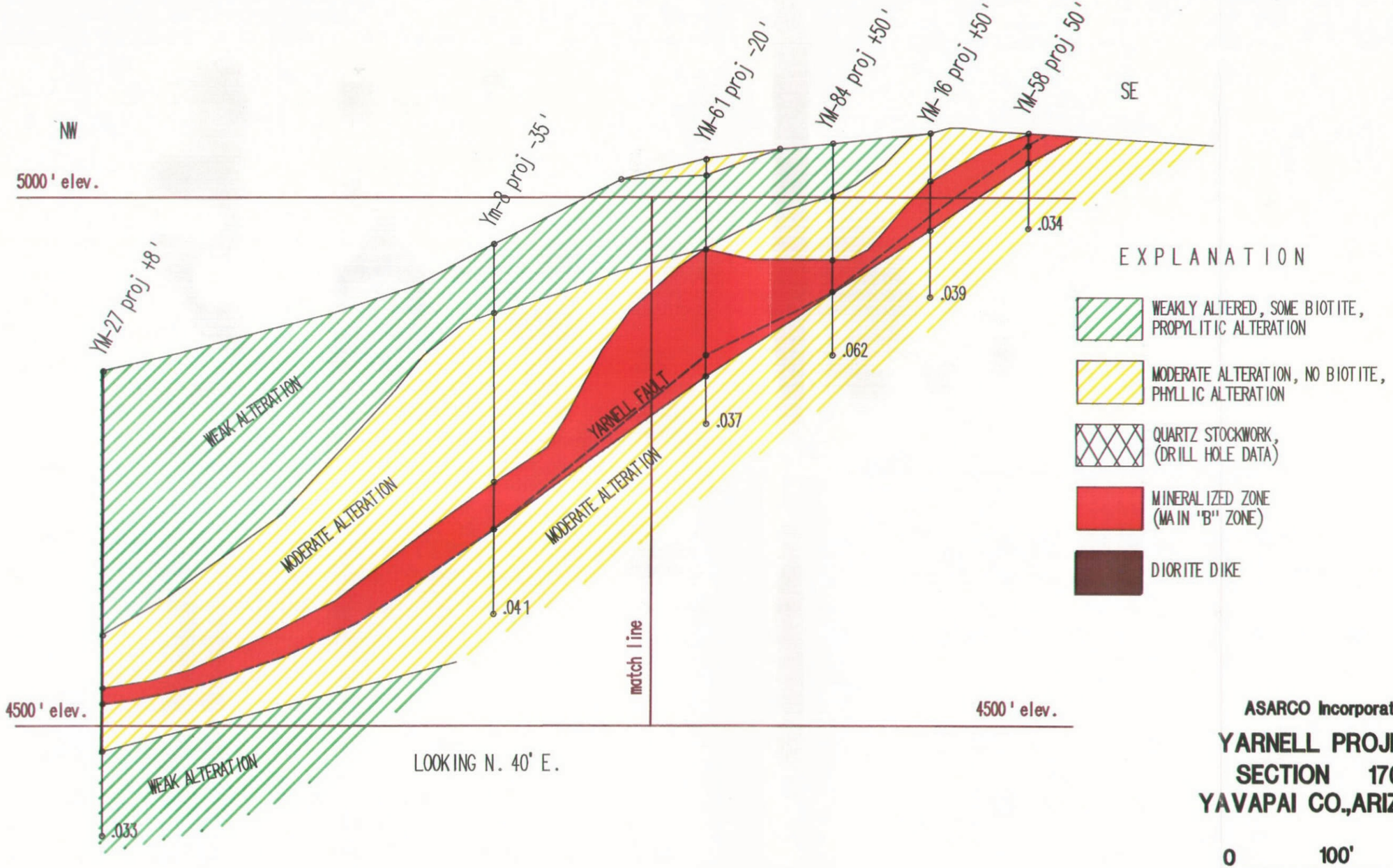
ASARCO Incorporated

YARNELL PROJECT
SECTION 1600
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6921 MAM/dam tuc 3-20-90
file YAR-6921.DWG

PLATE 5K



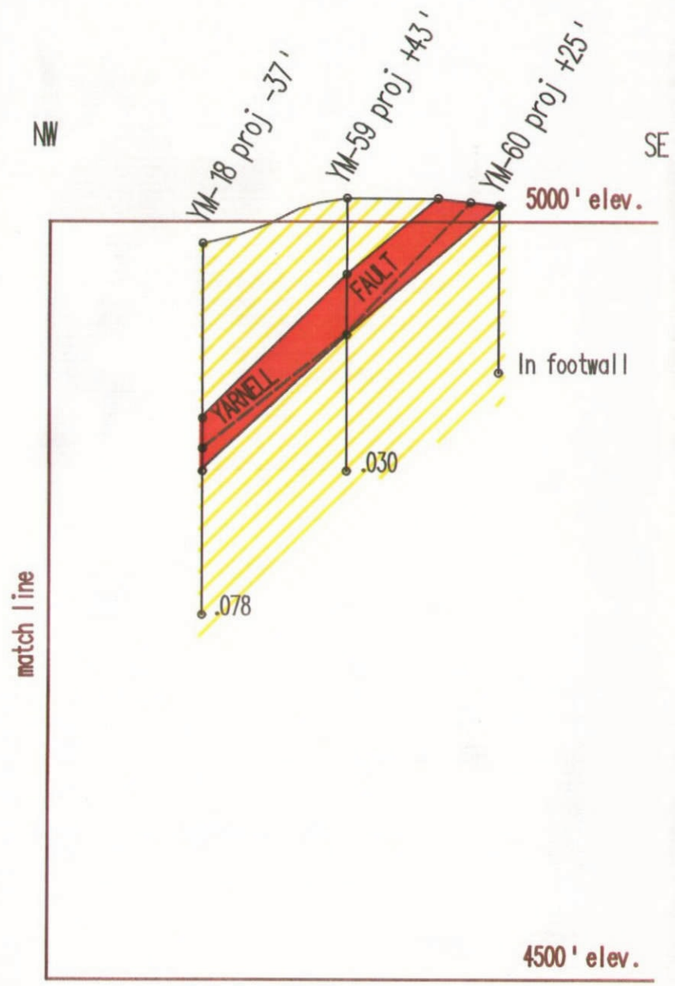
ASARCO Incorporated

YARNELL PROJECT
SECTION 1700
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6922 MAM/dam tuc 3-20-90
file YAR-6922.DWG

PLATE 5L



LOOKING N. 40° E.

EXPLANATION

- WEAKLY ALTERED, SOME BIOTITE, PROPYLITIC ALTERATION
- MODERATE ALTERATION, NO BIOTITE, PHYLLIC ALTERATION
- QUARTZ STOCKWORK, (DRILL HOLE DATA)
- MINERALIZED ZONE (MAIN "B" ZONE)
- DIORITE DIKE

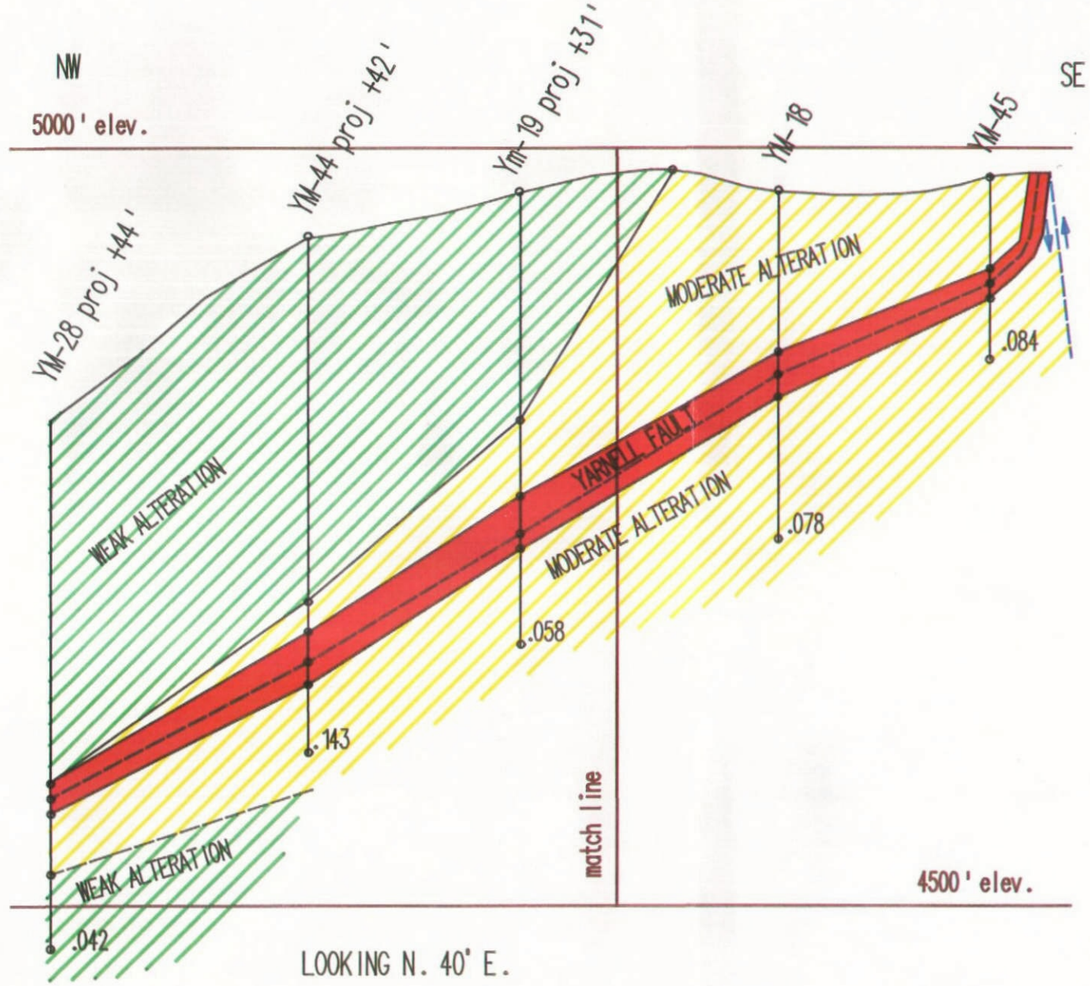
ASARCO Incorporated

YARNELL PROJECT
SECTION 1800
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6923 MAM/dam, tuc 3-20-90
file YAR-6923.DWG

PLATE 5M



LOOKING N. 40° E.

EXPLANATION

- WEAKLY ALTERED, SOME BIOTITE, PROPYLITIC ALTERATION
- MODERATE ALTERATION, NO BIOTITE, PHYLLIC ALTERATION
- QUARTZ STOCKWORK, (DRILL HOLE DATA)
- MINERALIZED ZONE (MAIN "B" ZONE)
- DIORITE DIKE

ASARCO Incorporated

YARNELL PROJECT
SECTION 1900
YAVAPAI CO.,ARIZONA

0 100' 200'

mn 6924 MAM/dam tuc 3-20-90
file YAR-6924.DWG

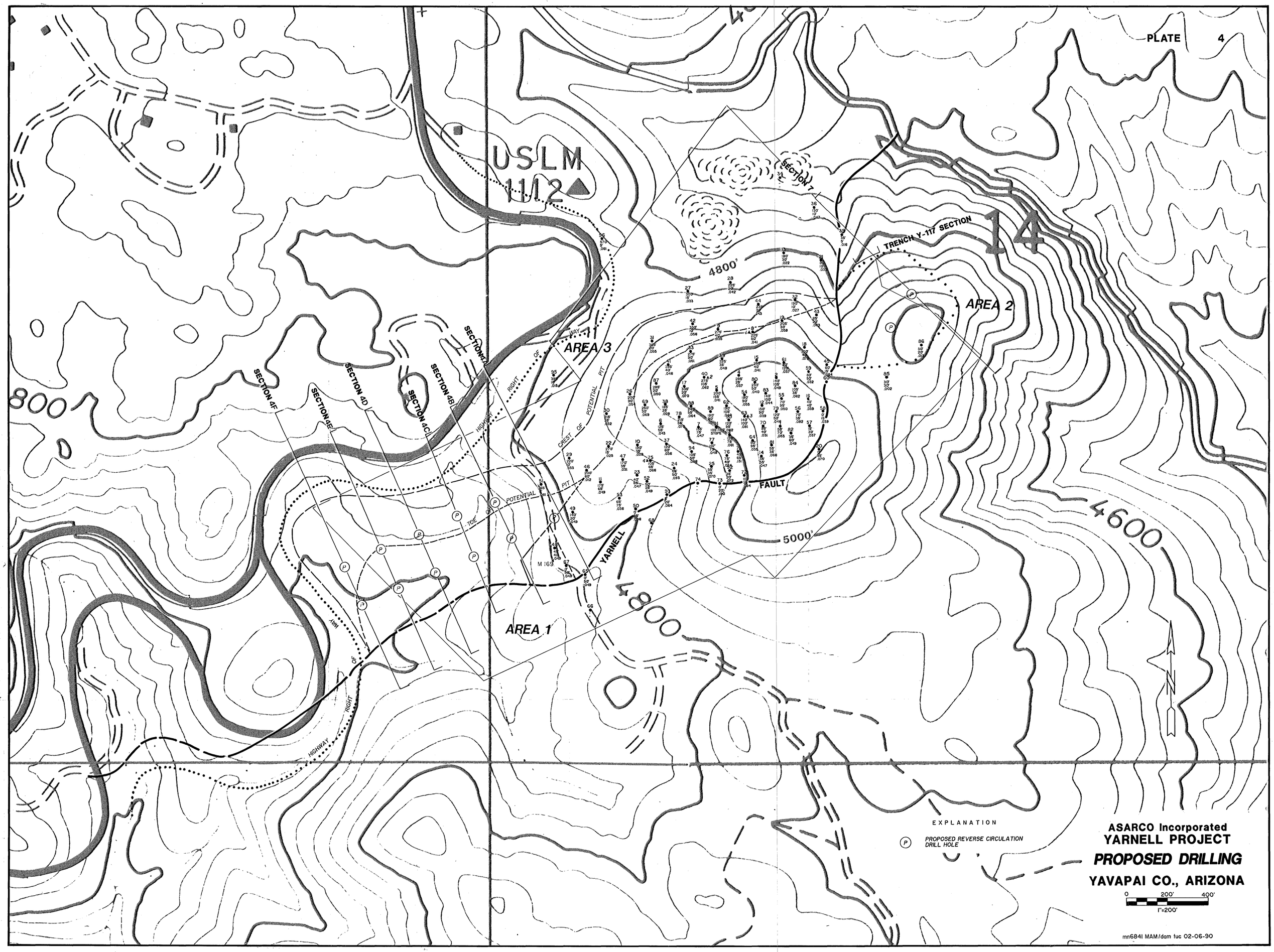
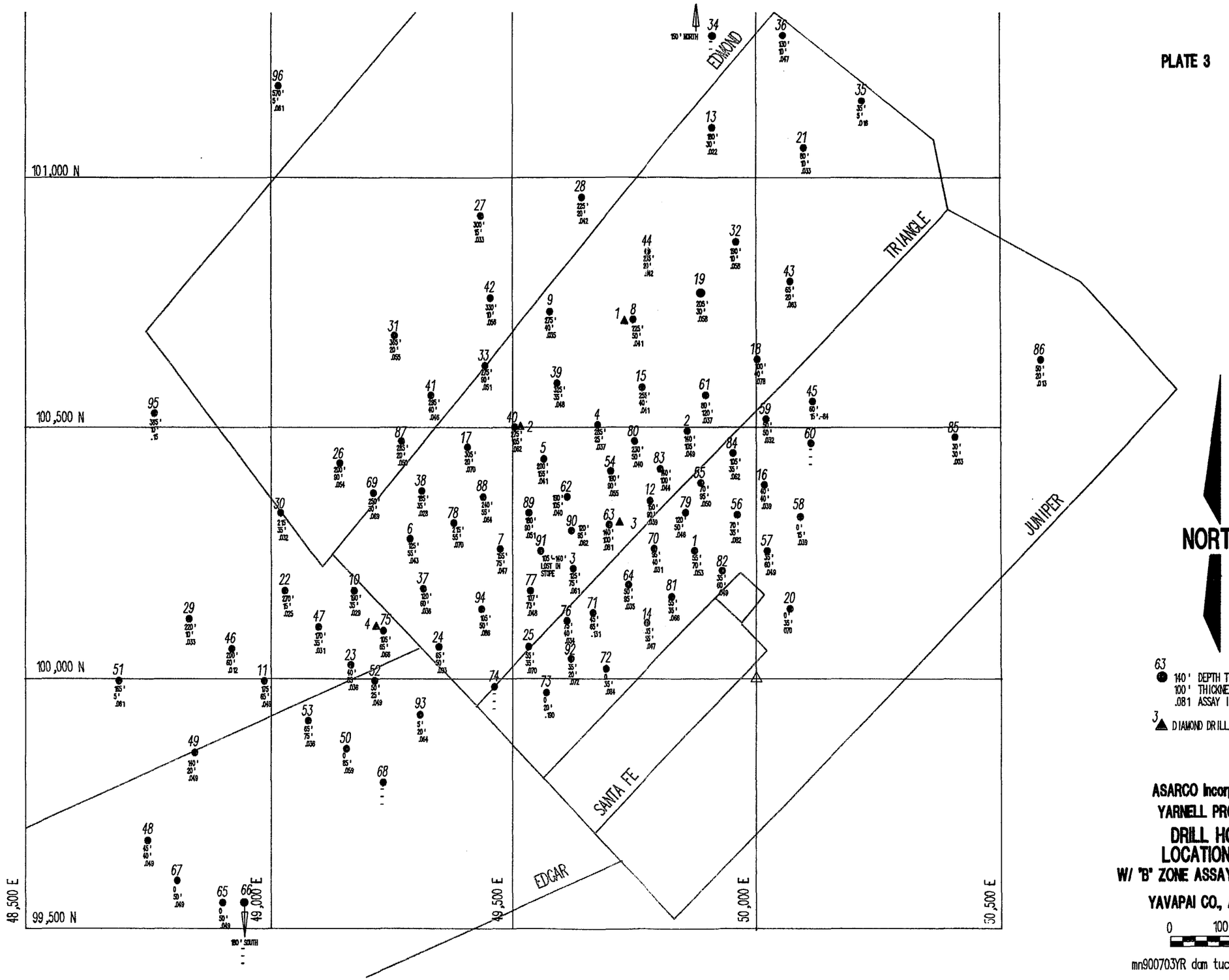


PLATE 4
USLM
1112
14
TRENCH Y-117 SECTION
SECTION 7
4800'
AREA 2
AREA 3
AREA 1
SECTION 4A
SECTION 4B
SECTION 4C
SECTION 4D
SECTION 4E
SECTION 4F
HIGHWAY RIGHT OF WAY
CREST OF POTENTIAL PIT
TOE OF POTENTIAL PIT
FAULT
YARNELL
M 169
5000'
4600
4800
800
EXPLANATION
PROPOSED REVERSE CIRCULATION DRILL HOLE
ASARCO Incorporated
YARNELL PROJECT
PROPOSED DRILLING
YAVAPAI CO., ARIZONA
0 200' 400'
1"=200'
mn6841 MAM/dam tuc 02-06-90

PLATE 3



NORTH

63 ● 140' DEPTH TO INTERVAL
100' THICKNESS OF INTERVAL
.081 ASSAY IN OUNCES PER TON

3 ▲ DIAMOND DRILL HOLE

ASARCO Incorporated
YARNELL PROJECT
DRILL HOLE LOCATION MAP
W/ "B" ZONE ASSAY INTERVALS
YAVAPAI CO., ARIZONA

0 100' 200'

mn900703YR dam tuc 07/06/90

PLATE 2

DIORITE DIKE

FELSIC DIKE

GRANITE

F — FRESH

W — WEAKLY ALTERED
biotite fresh to weakly altered
slight specularite psudomorphs after biotite
weak sericite replacement of feldspar
±silica veinlets

M — MODERATELY ALTERED
biotite absent
±specularite psudomorphs after biotite
moderate/strong sericite replacement of feldspar
±silica veinlets

S — STRONGLY ALTERED
argillic, kaolinite, clay alteration
specularite altered to hematite

AS ABOVE
overprint of interstitial to pervasive
silica with minor quartz veining

LIMONITE PSUDOMORPHS
limonite psudomorphs of pyrite and red/orange
hematite of oxidized specularite/pyrite

MAJOR QUARTZ VEINS, with strike and dip

YARNELL FAULT, as mapped with strike and dip

YARNELL FAULT, as projected

YARNELL FAULT, as inferred

MAJOR STRUCTURES, with strike and dip

JOINTING, with strike and dip

SURVEYED CLAIM CORNERS

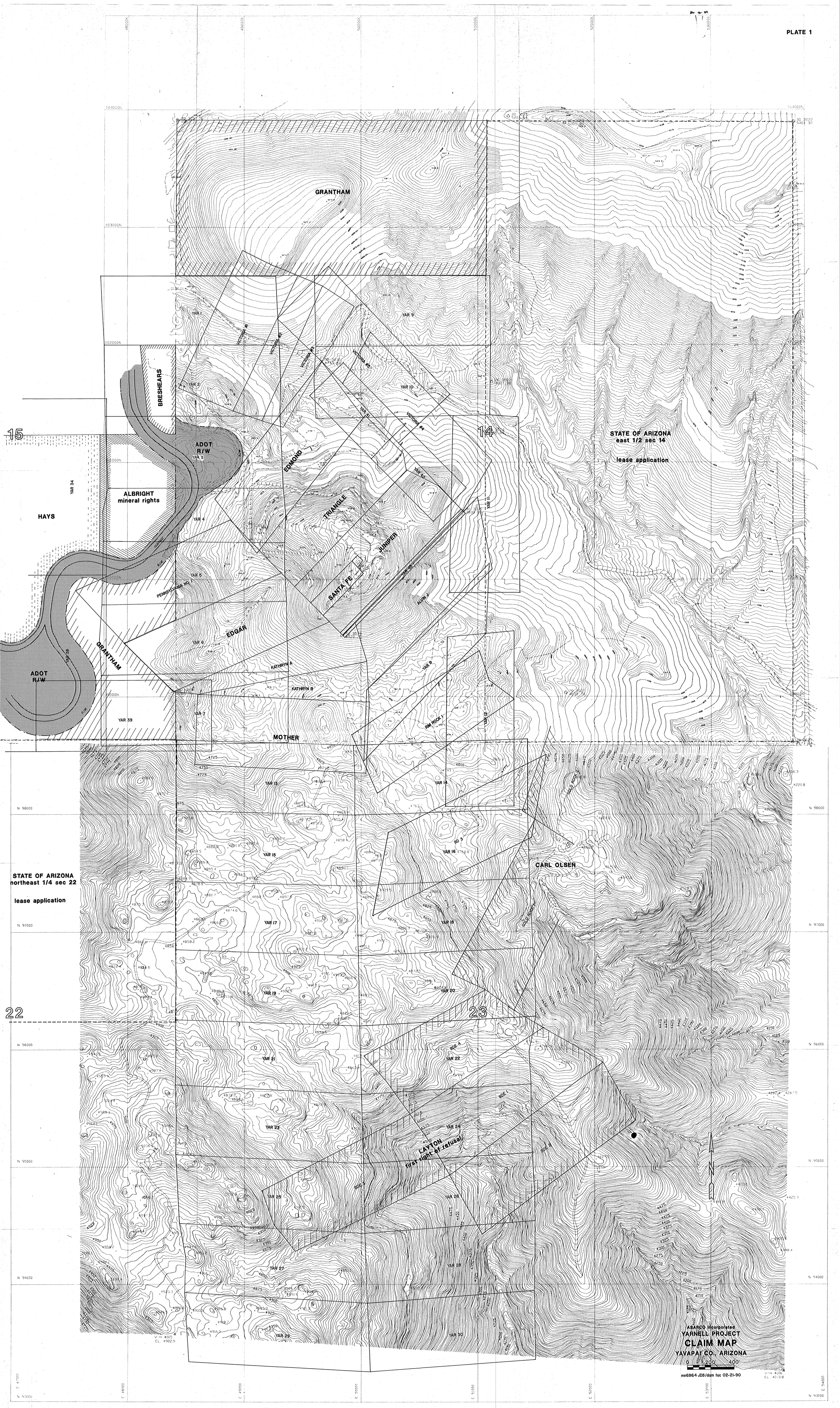
DUMP

0 100' 200'

ASARCO Incorporated
YARNELL PROJECT
GEOLOGY MAP
YAVAPAI CO., ARIZONA

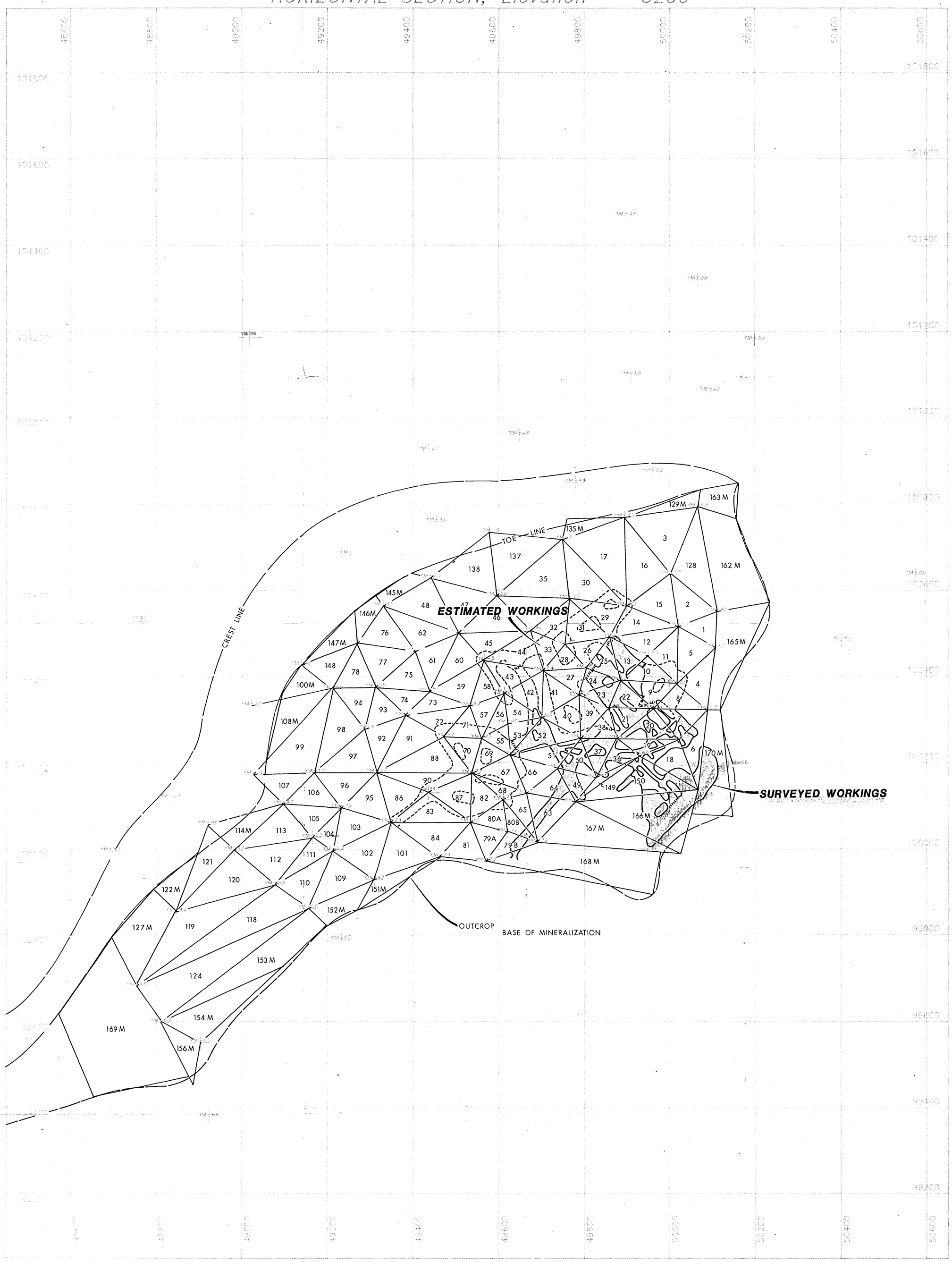
mn6780 MAM/dam tuc 11-08-89

PLATE 1


GRANTHAM
BRESHEARS
ADOT R/W
ALBRIGHT mineral rights
HAYS
YAR 34
YAR 39
YAR 1
YAR 2
YAR 3
YAR 4
YAR 5
YAR 6
YAR 7
YAR 9
YAR 10
YAR 11
YAR 12
YAR 13
YAR 14
YAR 15
YAR 16
YAR 17
YAR 18
YAR 19
YAR 20
YAR 21
YAR 22
YAR 23
YAR 24
YAR 25
YAR 26
YAR 27
YAR 28
YAR 29
YAR 30
VICTORIA #1
VICTORIA #2
VICTORIA #3
VICTORIA #4
EDMOND
TRIANGLE
JUNIPER
SANTA FE
EDGAR
KATHRYN A
KATHRYN B
MOTHER
RIM ROCK 1
RIM ROCK 2
GOLD ROCK 2
GOLD ROCK 1
CARL OLSEN
LAYTON
first right of refusal
STATE OF ARIZONA
east 1/2 sec 14
lease application
STATE OF ARIZONA
northeast 1/4 sec 22
lease application
15
14
22
23
ASARCO Incorporated
YARNELL PROJECT
CLAIM MAP
YAVAPAI CO., ARIZONA
0 200 400'
mn6864 JDS/dam tuc 02-21-90

HORIZONTAL SECTION, Elevation 5200

PLATE 6



TRIANGLES & DRILL HOLES USED IN STUDY PIT YARNELL PROJECT YAVAPAI COUNTY, ARIZONA

J.D.SELL 11/10/89

ASARCO Engineering and Computer Services

YARNELL PROJECT
COLLAR LOCATION MAP

SCALE in:Feet	CHECKED BY	PLOT DATE	FILE
1:100.00		25-OCT-89	YARN-COLLAR

mn6811 JDS/aam tuc 11-10-89

DRILL HOLE COLLAR LOCATION MAP50W

DIAMOND DRILL RECORD

HOLE NO. _____

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL - LOGGING EXPLANATION SHEET.

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by M.A. MILLER Scale 1" = 10' Sheet _____ of _____

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
			WEAKLY ALTERED GRANITE BIOTITE PRESENT WEAK SERICITE	POTASSIC ALTERATION RIMS					FRACTURES / VEINING QUARTZ VEIN(S) IRON OXIDE ON VALLS + FRACTURES OXIDIZED SULFIDES HEMATITE ON FRACTURES.		
				TEXTURAL DESTRUCTION RELATIVE INTENSITY EQUALS AMOUNT OF CROSS HATCHING							
			TRANSITION ZONE	BIOTITE					DISSEMINATED MINERALIZATION SPECULARITE		
			MODERATELY ALTERED, NO BIOTITE SERICITE PRESENT	TRANSITION - BIOTITE w/ HEMATITE RIMS					HEMATITE		
				CHLORITE					OXIDIZED SULFIDES. LIM AFTER PY / (Lim/PY)		
			UNALTERED GRANITE	SERICITIZATION DOTTED → SOLID SHOWS INCREASE IN AMOUNT OF ALTERATION					FRESH PYRITE		
			FAULTS / FAULT ZONE → FAULT BRECCIA	INTENSE PERVASIVE POTASSIC ADDITION							
				SILICA FLOODING AMOUNT OF CROSS-HATCHING = RELATIVE AMOUNT OF QUARTZ FLOODING							
				ARGILLIZATION							

COLUMN

B = BIOTITE, CHLORITE ETC.

C = AMOUNT OF SERCITE, POTASSIC ALTERATION

D = SILICA FLOODING

E = DISSEMINATED MINERALIZATION

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-1

Coord. 10/715 N 49740 E Elev. 4957 PROPERTY YARNELL PROJECT

Bearing – Inclination VERTICAL Depth 350' LOCATION YM-8 REVERSE CIRCULATION LOCATION

Started 9/25/89 Completed 9/27/89 Notes by M. MILLER Scale 1" = 10' Sheet 1 of 4

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B Biotite	C Sericit	D Silicic	E	MINERALIZATION	Graphic Col.	CORE ASSAYS Au (oz/t)	YM-8
0			CASING-	NO RECOVERY								.004
	75		GRANITE-M/CRS GRND MODEQUI-GRANULAR TYPICAL ASSEMBLAGE Qz, FPAR, BIOTITE LT PALE BLUE Qz "EYES" SLT OPALESCENT.	CORE V. FRIABLE DUE TO WEATHERING. BIOTITE + SERICITIC FPARS.					LOW % FRACTS TO CORE (75') W/ MINOR LIM/OXIDATION. (MOSTLY AS MUD) AND ALONG FORE BREAKS!		.006	.003
10				AS ABOVE BUT MORE COMPETENT CORE "CREAM COLORED" ALT. PROBLY 1-2% USU ASS W/ BIO. ALSO PINKISH RED ALT PROD. ASS W/ BIOTITE							.003	.027
			BROKEN ZONE						BROKEN ZONE W/ LIM FRACTS - (WK) + OXIDATION (WK)		.008	.002
20									H.L WK OXIDIZED FRACTS.			
			BROKEN ZONE						OXIDATION + WK LIM ON FRACTS		.001	.008
									Qz VEINING W/ SILICIFICATION SELVEGE			
			SLT BLEACHED? BIOT. Granite WEAKER BIOT. THAN ABOVE								.004	.007
30									HI % WK OXIDIZED FRACTS 20° ⊥ TO CORE			
				LT GREEN CLAY MIN ON FRACTS - WEAK IN APP. 2-3% ALONG FRACTS - DEC BIOTITE					WKLY OXIDIZED BUT SILIC FRACTURES. SOME LIMONITE IN FRACT FILLINGS. POSS WK STOCKWORK FRACTS -		.001	.037
			POSS FRACT ZONE W/ Qz VEINING + GOUGE?								.012	
	60°		SAME AS ABOVE BUT MUCH MORE ALTERED. STILL LT PALE BLUE Qz INCLUSIONS - BUT ALT HAS DESTROYED TEXTURE	STRONG SERICITIC + SILIC ALT - V. WK BIO - POSS SEC??					Py REPS (LIM/Py) W/IN SILICIFIED ZONE 1-2% SOME OFF SETTING FRACTS WK MN STAINING ON FRACTS QUARTZ VNS (WHT) W/IN VNS ¼" IN THICKNESS.		.034 .134 .108 .195 .108	.212 .235 EX
40									X-CUTTING LIMONITIC FRACTS + DISS LIM/Py 1-2% FROM 2 60-70°			.015
				RED ALT ASS W/ BIOTITE V. V. WK BIOTITE					MN FRACT XCTING ¼-½" RED HM W/ REPS Py/LIM			
	65		BROKEN/GOUGY ZONE POSS FA? POSS SILIC GOUGE?	B + STRONG ALT ZONE					STRONGLY BROKEN ZONE 2" SILIC - Py/LIM REPS -		.125	.012
50			CRS GRN'D GRANITE WKLY ALT - BIOTITE PRES - 6-8%	MOD SERICITIC K-spars - SLT PINK PLAG W/ MOD SILIC					MOST LOW % FRACTS W/ MINOR LIM/OXIDATION - 6" ZONE W/ NEARLY FLAT Qz VNS - 1-2" IN THICK SPEC HM ON BOTTOM Qz VN ½-½ % Py/LIM		.015	.004
				DEC SILICA?					LIMONITIC "GOUGE" ON CORE BREAKS			
60	35								LIMONITIC FRACTS ESP ON CORE BREAKS -		.003	.010
			BROKEN - POSS FA. CEMENTED? GOUGE?	wk/MOD SERICITIC FPARS -					LIMONITIC FAULT ¼" TIC.		.002	.004
									HI % LIM FRACT ¼" Qz VNS →			
			BROKEN ZONE	BIOTITE BECOMING MORE ALT - POSS CHLORITIC?					BROKEN ZONE - LIMONITIC FRACTS. MOSTLY HI % - LIM "PAINT" ½" Qz VN - W/ ASS II H.L VNLTS.		.015	.013
70			AS ABOVE BUT LESS BIOTITE - STILL PINK PLAG SPARS -									
	80		CRS GRN'D GRANITE >10% BIOTITE - MOD/STRONG SER. F PARS -	ABU. BIOTITE - AB SERICITIC FELDSPARS.					1' RED HEM, Py/LIM + SILIC ZONE PROB A VEIN THRU Qz VNS W/IN.		.010	.01
									FAMILY OF 50-60° H.L FRACTS - WKLY LIMONITIC.		.019	.037
80	50		AS ABOVE BUT MORE ALT - LESS BIOTITE BASE	DEC BIOTITE BECOMING MORE ALT?					RARE "GREASY" GRN CLAY ON FRACT SURFACES		.008	.008
									SPEC HM/LIM FRACTS - ASS. Qz VNS -			.011
			BROKEN ZONE						BROKEN ZONE Qz VNS W/IN		.012	
90				APPEARS TO BE SILICA FLOODING →					V. HIG % Qz VN ASSOC Py/LIM CUBES DISS 1-2% MINOR OR/YELL LIM "PAINT"			.012
	60		INC IN BIOTITE CHARGE ASSOC W/ Qz VEIN. 6-8%	THIN SILIC SELVEGES SOME Qz VNS -							.013	
									Qz VEINS - LIMONITIC - DISS Py/LIM CUBES - 1% X-CUT - LIM FRACT		.002	.015
100				MORE ALT AROUND Qz VNS -								

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-1

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale _____ Sheet 2 of 4

DEPTH	% REC	ROCK TYPE (A)	ALTERATION	MINERALIZATION	CORE ASSAYS Au (opt)
100	60	← CONTACT ON QZ VN. 8-10% BIOTITE	BIOTITE STILL PRESENT - SILICA FLOODING → FELDSPAR SERICITIC SOFT (SERIT	H.C QZ VNLTS ASS W/ LIMONITE AS FILL.	.001 / .004
	50	LESS BIOTITE - MORE CHLORITIC/ALT 3% - XENOLITH @ 109'	SILICA FLOODING EGG AROUND QZ VNS SELVEGE. SILICA FLOODING ASSN/ QZ VN.	PY/LIM ASS W/ SILIC ZNE + QZ VEINING - SULFIDES MAINLY RESTRICTED TO QZ VNS - TR 1/8" QZ VNS →	.006 / .01
110		MORE BIOTITE THRU THIS INTERVAL 4-5%	MOD/STRY SERICITE ON FELDSPAR.	EARTHY YELLOW/BRN LIM ON FRACTS. W/ SPEC HM - INCREASING SPEC HM ASS W/ EARTH YELL BRNT BRN LIM	.001 / .01
				X-CUTTING 35-70° FRACTS W/ MINOR LIM LOCALLY SPEC HM	
120			POSS QZ FLOODING BUT WK	2" LIM FILLED FRACTURE SPEC HM VNLTS W/IN. // QZ VNS → 1/3" TK - LIM + PY VOIDS ASS W/ QZ VNS - SOME MINOR X-CUTTING VNS. 7/FT - X-CUTTING SPEC HM VNLET OPEN LIM FRACT	.039 / .033
				LOW % QZ VNS CUTTING LIMONITIC FRACTS (OPEN) + OFFSETTING LIMONITIC FRACTS 1/4" OPEN LIMONITIC FRACT →	.050 / .005
	60		STRONG SILICA FLOODING - ASS W/ QZ VNS - BIOTITE → PARTIALLY TO CHLORITE	PY/LIM AT CONTACT → ABU QZ VNING + SILIFICATION → POSS 2' QZ VN - PY/LIM 2-3% DISS 60 W/IN. SOME X-CUTTING QZ VEINING // QZ VNS 8/FT →	.004 / .011
130		AS ABOVE - WEAKER BIOTITE 2% BIOTITE MORE CHLORITIC - 6" GOUGE ZONE FAULT?		WK LIMONITE STOCKWORK → FAULT ZONE 6" GOUGE →	.016 / .047
	60			LIMONITIC FRACTS/ THROUGH MICROFRACTS 60 W/K LIMONITIC STOCKWORK - 70 PRINCIPAL DIP IS 1/-70° BRECCIATED QZ VN	.013 / .017
		- BROKEN ZONE - PROB MYLONITIC FABRIC FAULT			
140			V.V.F.G BIOTITE →		
	60	1" MYLONITE ZONE			.020 / .006
			SILICA FLOODING	LIMONITIC FRACTS - X-CUTTING	
		1" XENOLITH - V.F.G. SCHIST??	PATCHY BIOTITE ENCROACHMENT	2-4 QZ VNS/FT.	.011 / .004
150		CONTACT ON QZ VEIN.			
	60	ABUND. BIOTITE CONTACT ON TN QZ VN.	REMNANT OF STR. ALT BIOTITE GRAIN - SCRT FOR.		
	60	MOD/STRONGLY ALT - TEXTURE IS MOSTLY DESTROYED. FEW REMNANTS OF UNALT ROCK W/ BIOTITE INCLUDED W/IN.	PINKISH ALT ASS W/ BIOTITE BIOTITE PATCH SILICA FLOODING - WK BIOTITE W/IN INTERVAL	QZ VNS W/ PY/LIM REGIONS 60 1% SULFIDES. X-CUTTING FRACT'S - 6" QZ VN W/ SULFIDES (OAID) 60 2-3% PY/LIM CUBES DISS SULFIDES. ASS W/ QZ VNS. 2-3 QZ VNS/FT DISS BY SULFIDES 1-2%	.010 / .02
160			BIOTITE ↓ CHLORITIC FEW PATCHES OF ROM FRESH BIOTITE	SPEC HM FRACT. LIMM. HC + QZ VNS + FRACTS 30-35	.021 / .043
				1" GOUGE ZONE 2 QZ VEINING W/ SULFIDES ASS. W/ QZ VEINING	.058 / .008
				EARTHY BROWN LIMONITE → SPECULAR HEMATITE ON FRACTS LIM. FRACTS →	.016 / .047
170			PRO CHLORITE TR REM V.F.G. BIOTITE	X-CUTTING + CUT OFF QZ VNS - 70 POSS 2 STAGES OF QZ? OFFSETTING MOVEMENTS ON FRACTS BOTH ON QZ VNS + LIM. FRACTS.	.017 / .014
				LIMONITIC QZ VNS - + LIM IN FRACTS 60-70 V. MINOR OX SULFIDES ALONG QZ VNS.	.021 / .016
180				2" QZ VN V.V FINE DISS OX SULFIDES - EST 1% OX SULFIDES (PY (ASTS)) 50 70 LIMONITIC VNLTS -	.023 / .029
	70	- GOUGY ZONE 6-8"			
		- BROKEN GOUGY ZONE SLICKENSIDES W/IN ZONE		FAULT BRECCIA? 70 GOUGE MINOR SPEC HM VNLTS W/K/MOD LIMONITIC - QZ VN FRAGS W/ DISS SULF (OX)	.019 / .004
190			WK BIOTITE PATCHES MOST CHLORITIC -	SPEC HM DISS ALONG FRACTS/ SOME W/ QZ FRESH PY DISS. 40 ON FRACTURE 20 RED HEMATITIC STAINING	.017 / .009
				PRIMARY PY (FRESH) ASS W/ QZ VNS. TR MALACHITE W/ QZ VNS. 7/8 VNS/FT QZ PY W/ QZ VNS	.067 / .019
200					

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-1

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by M. Miller Scale 1" = 100' Sheet 3 of 4

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	Graphic Col.	CORE ASSAYS Au (opt)	VM-8 RC Au
200		Broken Zone - w/k Gouge Granite m/crs Grain - Strongly Alt - Sericitic w/ Fpars -	Little Rem Biotite Rest Alt → Chlorite? Feldspars Strongly Sericitic. Silica Flooding - Some Textural Destruction	Probable Fault Zone Gougy - Spec Hm on Lim Fract Ox Sul Ass w Qz Vns 2-3 Qz Vns/Ft. Abu. Hi & Lim. Vnlts	70	.013	.012
					50	.029	.005
210				Diss Ox Sulfides in Silic Zone	Silic Zone		
		Broken, Gougy Zone		Hi & Limonitic Fracts	75	.061	.019
				Qz Veining w/ Slickensides on Fractures	Broken Zone Prob Fault Slt/Mod Gouge 70	.020	.01
220	50	Broken Chip Type Fracturing.	Strong Silica Flooding	F.G. Hi & Shears? w/ Ox Py casts est 1% Py. Gouge Zone on Top. Lim Fractn/Qz @ Bs		.017	.004
	70	1" Gouge Zone. Broken Thru ~228' Poss Fault?		Abu. Lim Filled Fracts w/ Minor Spec Hm - w/k Diss Py (Ox) Cubes ½-1%	70	.043	.047
		¼-½" Gouge Zone.	Strong Silica Flooding	10 Qz Vns/Ft Diss Ox Py Cubes - 3% ↑ 1/16" Py Voids. ¼" Gouge @ 228.5	Prob Fa Zone Broken		
230			Flooding Brings out Prom K-spars - Wht.	Limonite - +/- Qz on Hi & Fracts w/ Minor Spec Hm Diss Ox Sulfides 1% + 5-7 Qz Vns/Ft	40°	.013	.044
			Granitic Texture still present But Var. Flooded.			.003	.029
240		0.5' Core Loss - Ground.					
		Var Broken + Gougy - Abu Fracts - Gougy + Mud Zone		Broken + Fractured Limonitic "Paint" on Fractures Also Limonitic Muds. w/k Ox Sulfides w/in < ½%	70	.016	.019
	70					.009	.013
250	70	1" Gouge Zone		Limonitic Fractures. w/k Diss Ox Sulfides		.065	.048
		Textural Destruction Due to More Intense Silic + Sericitic Alt.	Abu Silica Flooding Prominent Feldspars (Wht) Brought out By Si Flooding	Mod Abu Gy - Irr Silica Flooded Fract. Diss Ox Sulfides (Py) Cubes 2-3% Sulfides		.079	.087
260			w/k Chloritic Rem →	Slt Red Hm Staining Either Msv Gy Qz Vn or Total Silica Flooded Zone Diss Py (Ox) 2% Total Limonitic Fracts Thruout	70	.153	.063
		Bottom 3' Not As Silic But Still w/k Strong Textural Dest.		o.c. Limonitic Paint on Fractures			
		Contact @ Fault	Prob Yarnell Fault. Top.	Lim Zone Top 1" of Fault	70	.012	.023
		- Gouge Zone @ Top Yarnell Fault Zone - Gougy @ Top. Argillic Alt w/ 1' Gouge @ Bs.	Argillic Alt → Red Hematite As Shown.	Red Hematite + Oxidized. Zone w/ Abu Clay/Gouge Strongly Lim. Muds? →			
270	70				70	.019	.037
		Sericitic - Still Clay Gouge Zone.	Argillic Alt Textural Destruction	Abu Lim Fracts ∥ to Structural Direction. ¼" Wht Qz Vn.		.002	.004
280		- Poss Alt - Black Dike - Broken Zone	Sericitic. Becoming Less Intense	Broken Zone But w/k Limonitic Coating + Fract Fill		.004	.003
		- Broken Zone - Gouge - 2" Gouge Zone	Biotite Alt (Red) Reduces Poss V. w/k Biotite Also	Few Limonitic Fracts		.002	.002
290		Becoming Weakly Alt But No Biotite		Principal ∡ is 70° w/k Limonitic "Paint"		.002	.003
				Minor Healed Fractures - Some Weakly Limonitic		TR	.004
300							

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-1

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing - Inclination VERT Depth 350' LOCATION YM-8 R.C LOCATION

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 100' Sheet 4 of 4

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS	Au (OPT)	
300			Granitic Looking But Poss More Chloritic	W/Mod Ser- Tr Biotite					Oxidation Occurs Only Around Fracts & Vnlts- Fresh Py on Fracts- 60° Dip Prom. Direction		300	.001	.004
			Approx BS Oxide Zone										
			Poss Diff Rock Type More Chloritic Less Overall Silica But Still Weakly Altered. Greenish Tint to Rock.	Little Silica Flooding								.001	.003
310				Dec Alt.					1/16" Qz Vein Rare Ox Py- w/in Ox Zone of Fract		310	TR	.005
			Chloritic-Greenish Tint-						Wk Diss Py (Fresh) Few Oxid Fracts			TR	.003
320			≤ Tr Opalescent Qz-	4-6% Biotite							320		
			Biotite Reappears-									Nil	.005
									Healed Clean/Wkly Oxidized Fracts-			TR	.004
330									Tr Diss Py- Vn Fine Cubes Usually Ass w/ Biotite Sites To TD	70	330	TR	.003
									Tr Limonitic Fract	70			
									Oxidized Fracts- No Limonite			Nil	.005
340											340		
				Change to Red Maroon Biotite Alt Product Poss Edge of Lower Alt. Zone To TD					Overall Inc in Oxidation + Fracturing- Notable Inc.			.001	.002
									Spec Hm Fract → Tr Diss Spec Hm			TR	.002
350											350		

TD @ 350'

DIAMOND DRILL RECORD

HOLE NO. YDDH-2

Coord. 100,507 N 49510 E Elev. 5024 PROPERTY YARNELL

Bearing _____ Inclination _____ Depth 400 LOCATION TWIN TO YM-40

Started 9/29/89 Completed 10/8/90 Notes by M. MILLER Scale 1"=10' Sheet 1 of 4

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	Graphic Col.	CORE ASSAYS
0		0-3' CASING - BIOTITE GRANITE M/CRS GRN'D. 5-8% BIOTITE LOC AS CLOTS → 2-3mm IN SIZE.	NO RECOVERY. WK → MOD (W DEPTH) GREENISH FELDSPARS - SERICITIC?	ABU OXIDIZED FRACTS + CORE BREAKS - PROB SURFACE OXIDATION. DIPS RANGE FROM 50-70° ON CORE BREAKS.	20 60	.002 .004
10		- Broken Zone. - BROKEN ZONE	INCREASING RED ALT ASS W/ BIOTITE	BROKEN ZONE W/ WK OXIDATION ALONG FRACTS		.040 .002
						.033 .003
20				TN < 1/16" QZ VEINS → SLT LIMONITIC FRACTURE ~ 1/4" TK.	60 70 30 40	.025 .002
	60		< 1/2% OVERALL	BROKEN + FRACT. MINOR LIM - TN OX FRACT W/ MINOR QZ - TN GOUGE ZONE?	40 60	.003 .01
30				1/16" LIMONITIC MUD ZONE? POSS. FAULT? FRACTURED - TR LIMONITE	35	.003 .009
		AS ABOVE BUT INC IN BIOTITE 10%+	INC IN RED ALT - (HEMATITE REPLACEMENT?)	TR Py/LIM CUBES -	60-70°	.001 .003
40		- Broken Zone.	KSPAR XLS - SERICITIC ON RIMS BECOMING LESS ALT → INTERIOR.	CORE BREAKS - V. MINOR LIMONITE		TR .002
				LIMONITIC FRACTURE	50	.001 .013
50		DEC IN BIOTITE < 3%. TRANSITION ZONE	INC IN HM REPLACEMENT @ BIOTITES; INC IN SERICITE	MUD + LIMONITE AS GLAZED ON FRACT. Py/LIM CUBES - LITTLE RED HM ON FRACT.		.009 .002
			HM REPLACEMENT ~ 3% SILICA FLOODING POSS. POTASSIC ALT - W/IN SILIC ZONE	1" QZ VN - M GY IN COLOR	70	.002 .004
60	50	1' GOUGE ZONE PROB FAULT.	POSS MOD SILICA FLOODING	4-5 FRACTS/FT. SLT/MOD LIMONITIC 1" QZ VEIN - M. GY	50° 80	.002 .007
		HI BIOTITE ZONE 10%+ BIOTITE		POSS GOUGE ZONE →	70	.006 .021
70		MOD BROKEN ZONE	GRADUAL CHANGE FROM BIOTITE → CHLORITE	RED HM SPOTTING ON FRACTURE SURFACES. 1" GY QZ VEIN → SPEC HM BEGINNING TO REP BIOTITE. 1/4" GY QZ VEIN →	70 70	.002 .004
				6-8 FRACTS/FT - LITTLE LIM.	50°	.005 .003
		MOD/STRONG BROKEN ZN. 3" GOUGE ZONE		1/2" GY QZ VEIN 3" GY QZ VEIN	70 70	.012 .022 .005 .001 .010 .088
80		PROB FA ZONE GOUGE Y - GRANULAR RECOVERY.		FAULT W/ GY QZ VEIN AS SHOWN 3" QZ VEIN.	70 50	
			POTASSIC RIMS AROUND QZ VEINS	QZ VN PSEUDO STOCKWORK PINK POTASSIC RIMS AROUND QZ VEINS ASS. FRACTS W/ LIMONITE	60-70°	.005 .005
90						TR .003
			POTASSIC RIMS AS ABOVE	∥ to SUB ∥ QZ VEINS (GY IN COLOR) ASS LIM W/ QZ VEINS SAME X-CUTTING.	60+°	.002 .003
100						.013 .002

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-2

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale _____ Sheet 2 of 4

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	Graphic Col.	CORE ASSAYS
100		ALTERED GRANITE W/ BIOTITE PROB ALT → CALORITE → SPEC HM. SAME GRAIN SIZE PERSISTS.	CHLORITE → SPEC HM @ FORMER BIOSITES. SERICITIC FELDSPARS. SILICA FLOODING	ABUNDANT FRACTURES W/ MINOR LIM. MUD GOUGE ZONE 1' ZONE	60 60	.003 .002
				TN GY QZ VEIN' BROKEN ZNE H & SLT LIM FRACTS		.002 .002
110			TR POTASSIC ALT ASS W/ GY QZ VNS/VNLTS.	PARALLEL → SUB // QZ VEINS (GY IN COLOR) SOME OK GY QZ VEINING. W/ DISS PY/LIM < ½ %	50	.002 .003
				QZ VEINING AS ABOVE W/ POTASSIC? RIMS		
				6" QZ VEIN - GY IN COLOR →		.098 .002
				DISS SPEC HM @ FORMER BIOSITES 2% +		
120		SLT INC IN BIO/CHL.	PROB QZ (SILICA) FLOODING		40	.002 .003
				¼" QZ VEINING (GY)	40	
					40	.003 .005
130					20	.002 .003
				MOSTLY HI & FRACTURES LITTLE OXIDATION ON FRACTURES - + LIMONITE.		
				½" GY QZ VNLT →		.004 .004
140			SILICA FLOODING.	¼" GY QZ VEIN. ½" QZ VN (GY) GY QZ VN - W/ SPEC HM INCLUDED IN QZ	20 60 60 60 50	.005 .028
				MORE OXIDIZED ZONE BROWN STAINING.		
			LOC POTASSIC RIMS AROUND QZ VNS -	X-CUTTING QZ VNS/VNLTS - QZ VNS W/ INCLUDED SPECULARITE	60 70 50	.003 .006
150		MOD/STRONG BROKEN ZONE		BROKEN ZONE - LITTLE LIM FRACTS		
				1" QZ VEINS → M. GY IN COLOR		.011 .009
						.005 .008
160		BROKEN ZONE				
				1" QZ VEIN	50	.001 .016
			POTASSIC RIMS (SELVEGES) AROUND QZ VNS.	AREA OF HI & GY QZ VEINS → 1" THICK. W/ STOCKWORK? 1" WHT QZ VEIN ← MINOR PY/LIM - DIS SPEC HM 2% + 20-50° DIPS SEEN	40	.017 .004
170				2' QZ VEIN SPECULARITE ON FRACTS - TRACE CuOx IN SMALL VNS - ALSO TR PY IN QZ BOTH WHT + GY QZ IN VEIN.	50	.002 .003
				SLATTERED QZ VEINS → ½" IN THICKNESS. (GY QZ) SOME LIM FRACTS W/ DISS PY/LIM << ½ % 60-70°		.002 .002
180		BROKEN ZONE PROB FA W/ GOUGE	SI FLOODING	½" QZ VEIN GY IN COLOR LIM + PY/LIM ASSN/QZ VEINS. ALSO SPECULARITE VEINS/LETS -		.008 .003
	50				70	.004 .002
190		BROKEN ZNE BROKEN CORE			60	
			POTASSIC SELVEGES AROUND QZ VEINS	QZ VEINS. 4-5/FT LOC. 1-2 AVE → ½" TK LIM FILLED MICROFRACTS X-CUTTING QZ VNS + SUB PARA. OCC PY/LIM CUBES OVERALL < ½ %		.001 .002
		BROKEN ZONE - PT. GOUGY, FA??		BROKEN - BUT LIM/SPEC FRACTURES 5-7 MAIN FRACTS/FT - ALSO MICROFRACTS		.002 .004
200						

DIAMOND DRILL RECORD

HOLE NO. YDDH-2

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale _____ Sheet 3 of 4

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	Graphic Col.	CORE ASSAYS
200		Broken Zone Broken Core	Mod Abu Potassic Alt - Seems to Be More Than Selvages -	Predom. Fract is 70° - However Abu X-cutting Mild Fracts - Some Mild Qz Vn/lts - 8-10 70° Fract's/ft - Spec on Fracs. Specularite @ Biotite Sites	70	.004
		Broken Zone	Silica Flooding	Broken Zone - Some Gouge Some Qz Vns (Gy) w/ "Earthy" Brn Lim.	50	.032 .015
210	70 75 70 60	6-8" Gouge + Fault Zone; 1" Gouge Zone w/ Lim Mud in Ps		1/4" Qz Vn (Gy); Fault Zones As Shown in Rock Type Sec.; 3" Gouge Zone As Shown	70	.040 .003
				Qz Veining - Poss Stockwork 4/ft Mild Qz Vn/lts - Also Ass. Lim Vns/Mild Vn/lts - 8-10/ft Py/Lim Cubes < 1%	60 20	.014 .003
220		Mod/Strongly Broken Core - Gouge Zones, Lim Fract's		Open Fract's w/ Lim Fill Some Lim/Qz Veining on Mild Vn/lts		
				"Earthy" Brn Limonite on Fract. Pt Open Qz Vein Limonitic; Lim/Mud Filled Fract	40	.001 .013
	65	6" Gouge Zone 228		Hi % Fracts + Cu-70° Fracts - All Limonitic - Some Lim. Muds - Few Qz Vns Assn/Lim. Mostly Broken Core on Fracts.	40 20	.002 .003
230				Gy Qz Veins/Vn/lts - Diss Py/Lim < 1/2 %	80 20 60	.022 .007
			Abundant Qz (Silica) Flooding Potassic Selvages? Also Alt of Discrete Feldspars (Pinkish Selvages)	2" Gy Qz Vein. Diss Py/Lim, Cubes → 1/4" Est 2%	80	.023 .011
240			Silica Flooding Prob Due to Amt + Size of Qz Veining	Pt Open/Limonitic Qz Vein - Specularite/Qz Vn/lt Stockwork? Qz Veining. Prom. Potassic? Rims - 1-1 1/2% Py/Lim Cubes Qz/Limonite Vein. Earthy Lim. w/ Py/Lim	70 20 60 60 30 40	.003 .006
				"Bleached" Fragment - Poss Breccia → Specularite Vnlts. X-cutting	20-30	.003 .003
250				Hi % + Low % Qz Vn'ng Some X-cutting Qz Vns. Mod Lim Ass. w/ Qz Vns.	20 30 70 40	.002 .003
			Silica Flooding Related to Qz Veins - Some Potassic Selvages.	Qz Veining Stockwork Specularite/Qz Vns -		.004 .009
260			Mod Abu. Silica Flooding	1% Py/Lim. Qz/Lim Veins/Vnlts.	40-60 40 40 50	.003 .009
		Broken Zone Hi % Blks on Core	Potassic Selvages - Around Qz Vns.	< 1% Py/Lim Cubes - Qz/Lim Vns/Lets - X-cutting Qz Vns.	40 70 60 70 40+	.003 .003
270	30	1/2" Clay/Gouge Zone	Greenish Alt - Besides Sericite?	Loc Large → 1/2" Py/Lim Cube in Qz Vn.	60 50 80	.003 .005
	60	Broken Zone Poss Fe Zone		Stockwork Qz Veining Both Wht + Gy Qz Vns Strong Wht Postdates Gy - Potassic 1% Py/Lim Loc Spec Hm w/ Qz. Alt Broken But Qz Vns -	WHT 40	.015 .023
280				Qz/Lim Vns - Stockwork - Near Vert Specularite/Qz Vn/lt. 2% + Py/Lim Cubes Lim Lines Fract Then Qz - Lim Vns -	50 50+ 30	.011 .018
			Potassic Rims.	6" Wht Qz Vn - Gy Qz Terminates Against This: Specularite Vn/lts - 2% Py/Lim Cubes 6" Wht Qz Vn Some 1/4" in Size - Usl on Gy Qz Vns -	WHT 70 60 60 50	.011 .012
290		Obscured Contact		259-91 - Poss Qz Vn - w/ Inclusions of Wall Rock. 291 -		
	50 40 30	Appears to Be Silic Myl Zone? Frags of Qz Vn Wall Rock Gtl - Late Wht Qz Vns X-cut. Clay Zone @ 295' → Fault Gouge Dip Estimated	Strong Silica Flooding Poss w/ Potassic Rims.	Mostly Wht Qz Vns. Overall 10% Oxidation < 1% Py/Lim Cubes Large Cubes → 1/2" Assn/Wht Qz Vns. 6" Qz Zone → Myl/Gouge	30 Gouge 60	.067 .129 .031 .026
300						

DIAMOND DRILL RECORD

HOLE NO. YDDH-2

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale _____ Sheet 4 of 4

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	CORE ASSAYS
300		Contiguation of Silic + Gougy Fault Zone	Silica flooding	Minor Qz Vns - Lim on Fract. Surfaces - Lim/Py Cubes - Gougy/Fractured Zone.	.122 / .041
	30	Major Silification	Strong Ser - Silic -	Wht Qz Vein - 70	
		↓ Yarnell Fault Zone Contact.		2-3% Py/Lim Cubes -	.077 / .027
310	70	Yarnell Fa. Zone Strong Red Hm Zone Fa Breccia	Silicified Mylonite	Yarnell Fault Zone - Visible Au on Fractures 100% Red Hematite in Mylonite	.320 / .177
		Silic Qz Bx @ Top Strong Gouge Zone Related to YFZ	Poss/Prob Argillic Alt. w/in Gouge	Mylonite/Gouge Zone - Mod Red Hm Lim/Py + Lim Fracts + Muds -	
	70		Silicified → Textural Destruction Argillic Alt?	Qz Veining/Vnlts w/in Silicification	.091 / .0[illegible]
320		- Strong Myl/Gouge @ Bs		Py/Lim Along & Assn/Qz Vns. 1+% Py/Lim + Red Hm Ass. w/ Py/Lim.	
	60	- Gouge Zone	Argillic Alt -	Shattered Wht Qz Vein	.015 / .013
		- Broken Zone - Broken + Shattered Core Shattered Qz Veins. 32' in Thickness. Many Gouge + Clay Zones.	Mod Silification	Strong Lim in Gouge → Gouge →	
330			Initial Silica Flooding - w/ Strong Argillic Alt.	Py/Lim Cubes Shattered Wht Qz Vns Py/Lim Cubes w/in Argillic Gouge Zone. 2% 10% overall Lim/Oxidation	.079 / .021
		- Broken Zone	Potassic Alt - Ass. w/ → Qz Vns		.174 / .162
		- Intensly Broken Prob Gouge Zone	Silica Flooding	Scattered Qz Veins Mostly Wht, Abu Fracts w/ Limonite, Diss Py/Lim -	
		Gouge Zone			.099 / .043
340		6" Gouge Zone		Abu Py/Lim Cubes 2% overall Red Hematite on Fracts + as Stains -	.029 / .034
		Gouge/Mud + Clay Zone	Continued Argillic Alteration w/ Silic overprint	Broken + Gougy Zone Silification Mod Abu Red Hm Stains on Microfracts	.029 / .108
350		320-353 Intensly Broken + Gougy Zones - Prob Fault Zones Contact Obscured		Gouge/Fault Zone Minor Lim.	
		Silic Fault Zone Breccia Fragments	Qz Flooding	Strong Qz Veinlets. Gouge Mostly Lt Gy Vnlts -	.082 / .081
	70	Red Hematite Fault Zone → Gouge Contact Obscured		Red Hematite Fault Zone w/ Gouge/Abu Red Hem Mud. Qz Vn Fracts w/in Fault Zone + 3% Diss Py/Lim. Broken Lim Zone	.152 / .131
360	70	← Gouge	Alt Changing to More Sericitic → Chloritic? @ Bs -	Wht + Gy Qz Vns - Py/Lim Ass. w/ Qz Vns - 1-2% Hi & Lim Fracts Wk Stockwork.	.036 / .043
		- Broken + Gougy Zones		Shattered + Bx'd Qz Vns involved in Fault	.013 / .079
		- Red Hm Mud Gouge Zone -		N-12/ft + Gouge Hi & Qz Vnlts - Ass Py Lim w/ Qz Vns - Numerous Gouge Zones - 1-2% X-cutting Lim Fracts w/ + w/o Qz wk Red Hm on Fracts + Diss -	.046 / .033
370		Yarnell FZ Complex Prob 310-380+/- Companion Faults?		Lim +/- Qz Fracts - 20-30°	.008 / .018
380		Contact & Estimated Porphyritic Rock - Large K-spans Gouge Rel Unalt - Rock Has a Greenish Tint - Poss Chlorite??	Poss Chloritic Alt?	Gouge Zone. Mod Abu. X-cutting. wk Lim Fracts - Few Py Cubes/Lim	.004 / .005
		Broken Zone Porphyritic Granite in F.W. of YFZ??	Poss wk Qz Flooding?	Hi & Limmitic Fracts -	.003 / .003
390		- Broken Gougy Zone	Unoxid M. Alt	Few Lim Fracts -	.004 / .009
		- Broken Gougy Zone -		Broken Gougy Zone - Lim in Py wk Diss Py	.007 / .004
400			TD @ 400'		

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-3

Coord. 100,316 N 49723 E Elev. 5045 PROPERTY Yarnell

Bearing — Inclination -90 Depth 325 LOCATION Twin to YM-63 25' N65°E

Started 10/9/89 Completed 10/13/89 Notes by M. Miller Scale 1"=10' Sheet 1 of 4

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	Graphic Col.	CORE ASSAYS	R.C. YM-63
0		0-6' CASING	No Recovery			Aw (opt)	.002
		Biotite Granite, M/Crs Gr'd, Equigranular. 10-13% Biotite	Soft Prob Sur Oxid; Wk/Sericitic Sheen on Feldspars -	H.L Limonitic Fracts		.004	.001
10		Broken Decomposed Zone	Red Alt Rims Around Biotite 1-2% (Hm Replacement?) Poss Inc ↓	4-5 Fracts/Ft w/ wk Lim	40° 80°	.001 .002 .001 .014 .004	.057
			Mud Sericite on Feldspars -			.005	.003
20			→ More Competent Core Poss V. Wk Silica Flooding	½" Qz Vn Gy in Color	70		
						.007	.004
	50°	Prob Fault/Qz Vein Zone - Biotite Absent → Gouge + Broken Zone	Poss Silica Flooding -	Py/Lim Localized in Qz & Some in Groundmass	50	.070	.038
30	74	Biotite Granite As Above w/ 25-30% Biotite V. Strong Biotite Rock is Weakly Decomposed Past 36'	Wk Sericite on Feldspars -	6" Qz Vein Few Py/Lim Cubes	80		
				Wk Limonitic Fracts 3+/Ft		.003	.002
		↓ Biotite Inc → 25-30% +		~70°		Tr	.005
40						.001	.004
			Tr Red Alt w/ Biotite Less Biotite Around Qz Veins	Thin Mud Filled Fract. Lim Mud??	50	Tr	.005
50	70	As Above But Contact Picked on Inc? in Silica (i.e. More Competent Core) Significant Inc in Qz Vns - ½" Fault.	Reappearance of Red Alt Prod. w/ Biotite Inc in Amt of Sericite in Feldspars Becoming More Prominent. Wker Biotite, Prob Becoming Chloritic	50 ¼" Qz Vn → ½" Fault w/ Gouge Slt Lim.	70 40	.008	.002
	70	(Description indicates wk alteration typ of Transition Zone)	15-20% Biot?/Chlorite Transition Zone Poss Silica Flooding Moderate	Family of M/Gy Qz Vns - Lor Wkly Limonitic - 3-4 Vns/Ft. Qz Vn w/ Spec Hm →	70	.006	.015
60		Xenolith	Sep Inc	Tr Spec Hm w/ Qz; 1" Qz Vn Wht Vn →	70	.036	.011
						Tr	.042
70		Broken, Muddy Zone		Zone of Hi ∡ Fractures Mostly Mud Filled However Some Lim. Fill. 4-6 Fract/Ft	20-30°	.002	.005
		Broken Zone				.001	.002
80		Broken Zone					
		Mud - High Fract Zone w/ Intervals Areas of "Crumbled" Core Many Hi ∡ Fractures w/ Mud + Lim Mud Fill.		Tr Qz Vn; Tr Jarosite? on Lim Fract.	70	.001	.014
	75	Broken Ox Zone Poss Fault		Broken/1" Qz Vns - M Gy in Ox Zone/Color Some Bx'd Vns	75 75	.001	.004
90			Slt Inc in Biotite Red Alt Ass w/ Biotite ↓	As Above - Wk Spec Hm		Tr	.005
		Large → ¼" Qz Phenocrysts		½" Qz Vn - M Gy →	60	.004	.003
100							

DIAMOND DRILL RECORD

HOLE NO. YDDH-3

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL

Bearing _____ Inclination _____ Depth _____ LOCATION TWIN TO YM-C3

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 2 of 4

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS Au (OPT)	RC
100											100	
									Ox Lim. Fracts →		.007	.01
			ABU. Qz Vns IN ALT CHLORITIC GRANITIC	6-8% CHLOR/BIO ? (REP) STRONG SER w/ FELDSPAR					Quartz Veining - Poss Stockwork, M Gry IN COLOR SOME LIM FILL 30			
				INC SER, INC CHL/BIO CHL REPL. BIOTIC GOT 8-10% CHL							.003	.004
110				INCREASINGLY STRONGER CHLORITIC ALT.					Qz Veining w/ Lim + Spec Hm - 1/4-1/2" Qz Vns 2/ft 50 70		110	
									Ox Lim Fract Tr Spec Hm		.001	.007
									Spec Hm inc w/in Fracture Biotite/Chl 5 Tgs 1-2% 30 50 2" Qz Vn w/ Lim Fracts + Spec Hm		.009	.009
120			- Occasional Hi ∠ Fract - Partially Broken	Poss Inc in Silica As Shown					Hi ∠ Fracts w/ Limonite + Spec Hm		120	
			- Broken/Gouge Zone Poss Fault ??								.005	.009
			Inc in Qz Veining Broken Zone.	Poss Potassic Alt ? Rimming Qz Vns Pinkish K-Spar					Broken Lim Zone 1/4" Qz Vein - Poss K-Alt		.003	.015
130				Strong Sericitic Alt Esp in Feldspars.					Diss Pyllim 1/2-3/4" Qz Some Lim Zone 70 Throughout 1% 20 Mod Abu Spec Hm Along Fracts + w/c Diss - 1-2% ind Biotites. 8-10 Fracts/Ft 6" Qz Vn - 40 1" Qz Vn 50		130	
				Restricted To Selvages Around Qz Vns.					Large Piece of Brx'd Qz Vein 6-8" in Size Terminates Against 70° Qz Vn Abu Spec Hm. Lim/Py Cubes		.045	.019
140									Potassic Vein w/ Qz -		.024	.011
									Diss Spec Hm + 2-3% 70 Diss Lim/Py Cubes - 1% 70		140	
									6-8 Qz Vns/Ft -		.020	.073
									Stockwork Qz Veining Some Vns → 6" Thk.		.029	.016
150				Potassic Alt inc w/in Groundmass + Strong Silica Flooding Photo Dur to Intensity of Qz Veining as is K-Alt					Pyllim Diss Thru Stockwork Lim + Spec Hm on Fracts		150	
											.080	.188
											.018	.042
160											160	
											.016	.024
											.013	
170			No Core Recovery 162-209. OPEN STOPES - NC CASING SET @ 184-187' Voids 162-184 184-209 217-221 Core Between 209-221. Suspect, Poss Boulder and/or Muck. !								170	.033 .048 .058
180											180	.137
190											190	.100 .203 .116
200											200	

DIAMOND DRILL RECORD

HOLE NO. Y-DDH-3

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by _____ Scale 1"=10' Sheet 3 of 4

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS	YM
200											200	63
												.116
												.097
210			ABU FALL IN + CAVE w/IN OPEN STOPING AREA.						FALL IN (CAVE)		210 .092	
											.037	.191
220											.072	.03
			- Bs of OPEN STOPES -								220	
	CALC		STRONGLY ALT - STRONGLY SERICITIC	POTASSIC RIMS ABOUT CLEAR QZ VEINS - LT GY VEINS MAY CUT CLEAR QZ - W/R OVERALL TEXT DESTRUCTION -					2-3% BISS SULF (OX) LOC DISS Py/Lim THROUGHOUT EST - 1% TOTAL.		.075	.078
			- 1" STRONGLY OXID ZONE w/ SULFIDES (Lim/Py						ABU - LOW % OXID FRACTS - FRACT - STOCKWORK			
									1/2" QZ VEINS / OXID RIMS - A LT GY IN COLOR - SPECULARITE w/IN QZ - H.L QZ VEINING @ 227	AQ 30	.095	.016
230	CALC		GREENISH GY. ALTERED + SILC GRANITE SOME TEXTURAL DESTRUCTION	STILL POTASSIC ALT? ABUN VEINING STRONG SERICITIC FELDSPARS.					THIN SILC. MICRO BX K ABUNDANT H.L & H.L @ 228 LIMONITE FRACTURES - ALMOST STOCKWORK TYPE	50	230 .019	.015
									DISS Py/Lim CUBES EST < 1% OVERALL - DISS ALONG QZ VEINS	30	.008	.071
240			LT GY - STRONGLY ALT - D - PROMINENT LARGE K-SPAR PHENOS - SEC? ALT.	SILICA FLOODING. REM SERICITE K-ALT?? SEEMS PERVASIVE					Lim/Spec Hem/Qz Vnlt →	50	240	T.D
									DISS Py/Lim 2%	60	.038	
									DISS Py (FRESH) + Vnlts of Py. 2% Py - Limonitic →	40 60	.110	
			Bs of OXIDATION. SULFIDES									
250	50		UNALTERED GRANITE? GREENISH GY - F/M GRAIN - NO BIOTITE - LEAK FELDSPARS - POST DIFF ROCK TYPE??	POTASSIC FLOODING → POTASSIC FLOODING MAYBE QZ VEIN. PORPHYRITIC?					DISS Py + 1 SPEC HEMATITE EST 1% Py 3% Spec Hem.	70 65	250 .012	
			Bs SULFIDES -									
			OXIDIZED EQUIVALENT OF ABOVE	POSS MOD SILICA FLOODING					OXID BUT TR FRESH Py			
			OXIDATION INCREASES + BECOMES PERVASIVE LOC CORE SHOWS WEAKLY CORRODED ZONES.	- POSS W/R SERICITE					TIN QUARTZ VEIN → OX/Lim QZ VEIN	80 40	.004	
260											260 .004	
									SCATTERED WEAKLY Limonitic FRACTS - w/in PERVASIVE OXIDATION → ≥ 10% OXIDIZED 3% + DISS SPEC HEM			
			1.5' STRONG OXID ZN						FRESH Py @ 269' OXIDIZED ZONE w/ Py CUBES 1' @ 5% Py/Lim		.008	
270											270	
											.004	
											.015	
280			AS ABOVE BUT TEXTURAL DESTRUCTION MORE CORRODED.	STRONG SILICA FLOODING.					HI & LIM FRACTS		280	
									5-6% DISS Py/Lim - PATCHES of FRESH Py AS @ 281.5			
			ST DICBRA LIMONITE	STRONGLY CORRODED. + LEACHED.					6" RED/YELLOW HEM ZONE. 2-3% SPEC HEM w/in CORRODED ZONE		.038	
			LAMINATED TO BOOL - POSS VOLCANIC BED ?									
			AS ABOVE	POSS W/R SERICITE? BUT NOT AS SEEN IN CORE CRN'D GRANITE					TIN QZ VNLT LIMONITE Vnlts -	60	.007	
290									DISS SPEC HEM - w/ LT BRN "FLUFFY" LIMONITE OVERALL 2-3%	60 60 60	290 .002	
	70								VERTICAL BREAKS THRU CORE - SLT LIMONITIC			
			SOME TEXTURAL DESTRUCTION, STRONG PERVASIVE OXIDATION.	SILICA FLOODING GOP 297-299					JAROSITIC STAIN ON FRACT			
									DISS Py/Lim EST < 3% TOTAL SPEC HEM		.013	
300											300	

DIAMOND DRILL RECORD

HOLE NO. 4-DDH-3

Coord. _____ N _____ E Elev. _____ PROPERTY _____

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 4 of 4

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS
300			Seemingly Alt- Pervasive Oxidation Both on Fracts + Institial						Family of 40° Lim/Spec Hm Fractures - + Diss Spec Hm.		300 .002
	70		Greenish Gy - Poss Diff Rock Type From Gignite @ Top of Hole - Chloritic?	Chloritic ? Pervasive ↓					Diss Spec Hm Thrust + 1-2%. Moo Arw Limonitic Fractures Some X-cut Hm - Pseudo Stockwork: 6-8/Ft	90	.001
310											310 TR
320											TR 320 .003
			TD @ 325'								

DIAMOND DRILL RECORD

HOLE NO. YDDH-4

Coord 100,100 N 49224 E Elev. 4880 PROPERTY YARNELL

Bearing — Inclination -90° Depth 220' LOCATION TWIN TO YM-75

Started 10/16/89 Completed 10/21/89 Notes by M. MILLER Scale 1"=10' Sheet 1 of 3

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	Graphic Col.	CORE ASSAYS Au (opt)	R.C.
0		PROB DIORITE SILL? ABU MAFICS BUT STRONGLY WX'D	NONE SEEN - STRONG WEATHERING	0-6' CASING: NO RECOVERY			.003
		INTENSLY LEACHED/ WEATHERED - ROCK IS VERY SOFT -	CARBONATE MATRIX 38' PROB DUE TO WEATHERING/ LEACHING OF FELDSPARS?			.002	.001
10		ABU PLAGIOCLASE SPARS	ABU BIOTITE - SOME SHOWN RED ALT - & PROB HM RIMS BUT RELATED TO WEATHERING	CALCITE VEINING →		.001	.001
				SCATTERED FRACTS - MUSTY ON CORE BREAKS - BUT NO SIGNIFICANT MINERALIZATION OR Q2 VEINING		.001	.002
20		BROKEN MUDDY ZONE		BROKEN ZONE -		.001	.003
						.001	.002
30				"GASH" VEIN W/ CALCITE 20 10-20°		.001	.002
	45	- BROKEN ZONE - BROKEN + DISAGG. ZONE		STRONG LIM ZONE 36-37' 50%		.001	.002
40		ALTERED GIANITE TYPICAL OF MUD ALT ZONE - NO BIOTITE	SERICITIC FELDSPARS -	STAINED LIM OXIDIZED/LIM FRACT'S			
	70	MUD + GOUGE ZONE		MUD + GOUGE ZONE - PT LIMONITIC 70		.002	.005
		MUDDY/GOUGY - SOFT ZONE - POSS FAULT?		GOUGY / FAULT ZONE? FGW FRACT BX'D Q2 VNS W/ IN - OVERALL WEAKLY LIMONITIC.		.001	.004
50	80			DISS PY/LIM CUBES - 1/4 USU. ASS. W/ Q2 VEIN 80 50 60		.001	.004
			POSS SEC BIOTITE VFG. DISSAGGREGATED →	WHT Q2 VN - CUTS LIM Q2 FRACTS/VNS - 40%			
			MUD SILICA FLOODING			.011	.003
60	50	1' GOUGE ZONE		WHT Q2 VEIN CUT BY STAIR - STEPPING MICRO FRACTS 25			
			INC IN SILICA FLOODING	Q2/LIM VNLTS - 3-4/FT? W/C LIM/PY CUBES 60+% LC ½ % FGW LIMONITIC FRACTURES + LIM ON CORE BREAKS		.006	.004
			INC IN SERICITE W/C POTASSIC ALT PROB ASS. W/ Q2 VNLTS.	DISS PY/LIM CUBES - 1-2% + OVERALL V. ABU. MICRO VNLTS OF LIMONITE 10-13/FT		.004	.016
70	70	6" GOUGE ZONE		PY/LIM CUBES 60 40-50		.016	.028
				1" Q2 VEIN (WHT) 50 6" WHT/GY Q2 VN 70			
			POTASSIC ALT. ASS W/ Q2 VEINS - AND IN INTERIOR OF SIME Q2 VEIN	H.L FAULT, VERT VISIBLE AU ASS W/ Q2/SPEC VNLT - →		.012	.011
80				LATER LIM VNLT CUTS FAULT 20-30 DISS PY/LIM CUBES - 1-2% 1" Q2 VEIN 70 40			
				X-CUTTING Q2 VNS → ½" TK STOCKWORK? 60		.009	.01
				STOCKWORK Q2 VNS W/ ASS. SPEC HM.			
			POTASSIC ALTERATION ASS W/ Q2 VEINING AS PINKISH R-SPAR SOME DISS.	PY/LIM CUBES → ~1% 60 VISIBLE AU ASS W/ 1" WHT/GY Q2 VEIN - SPEC HM SEEMS TO OCCUR @ THE "ROOF" OF THE VEIN		.020	.026
90		BROKEN ZONE LT TAN - ARGILLIC ZONE	ARGILLIC ZONE 89-96	EARTHY LIMONITE			
			STRONG Q2 FLOODING PROBLSE W/ STOCKWORK VEINING	1" BRECCIATED Q2 VEINS → V.TN "MYLONITIC FISSURES (GY Q2) Q2/SPECULARITE VNS W/ SPEC ON ROOF OF FRACTURE.		.025	.021
			NOTICABLE INC IN	3" WHT Q2 VEIN → MORE STOCKWORK 60 PY/LIM CUBES DISS THRUOUT 2% +/- DISS SPEC HM. 1-2%		.009	.035
100							

DIAMOND DRILL RECORD

HOLE NO. YDDH-4

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL PROJECT

Bearing _____ Inclination _____ Depth _____ LOCATION _____

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 2 of 3

DEPTH	% REC	ROCK TYPE	ALTERATION	MINERALIZATION	CORE ASSAYS Au (opt)	YM-75
100			CONTINUED SERICITIC ALT " SILICA FLOODING " POTASSIC ALT BUCKING DISCRETE FELDSPARS.	Py/Lim CUBES - DISS THROUGH MOD ABUND QZ VEINS / Lim + Lim VEINS - DISS SPECULARITE/Lim w/ Spec in 2/+ CENTER. 2-3% Py/Lim @ 102-103 CUBES @ 1/4" W MT/Gy 1/2" Qz VN → FRR BOULDERS	.071	.037
		HI & BROKEN ZONE		STOCKWORK Gy Qz VEINING 2% Py Lim ASSOC w/ Qz VNS DISS SPECULARITE (BLACK MINERAL) X-CUTTING LIMONITIC VN/Lts - 50 60	.095	.062
110			DISCRETE K-SPAR AS FELDSPAR x/ls 1/4" PINK RIMS AROUND QZ VN/Lts -	DISS Py/Lim CUBES - HI Q FRACTS - LIMONITIC QZ FRAGS w/in HI & LIMONITIC ZONES	.076	.064
			QZ VEINY DEL BUT SILICA FLOODING SAME	FRACTS AS SHOWN - LIMONITIC ALSO DESS. Py/Lim - AMTS OF DISCRETE QZ VEINING DECREASES.	.067	.026
120		- SLIGHTLY LESS ALT'D QZ VEINING - MGY IN COLOR. TR GOUGE ZONE M/Bxm 50 60	SILICA FLOODING	DISS Py/Lim AGAIN 30-60° 20 ALONG QZ VEINS - LIMONITIC VN/FRT FRACTURES 40 1' Gy VUGGY QZ VEIN →	.021	.047
				Lim VN/t - 50 FGN Py/Lim 1" HI & QZ VEIN GY QZ VEIN 20 40 LOOKS LIKE BX ZONE - VN BX?	.190	.067
130				LIMONITE / +/- QZ LT BROWN LIM.	.021	.088
	40	- BROKEN GOUGY ZONE PROB FAULT	SILICA FLOODING POTASSIC ALTERATION AROUND QZ VNS/VN/Lts. + POSS REL? TO QZ FLOODING	BROKEN - MOD/LIMONITIC FRACT'S 40 SPOTTY - SPEC HM - 2 1/+ Py/Lim ON FRACTURE CUBES - 1/+	.024	.005
140		LOOKED LIKE A SILIC. BX. SILICIFICATION SEEMS TO HAVE TIED ALL FRAGMENTS TOGETHER. BRECCIATION IS STRONG ISOLATED - GOUGE ZONE 140-140.5 LIMONITIC GOUGE	SERICITIC ALT PERSIST.	BRECCIA CONSISTS of QZ VEINS WHICH HAVE BEEN BROKEN + FRACTURED MOD LT BRN LIMONITE LATER LIMONITIC VN/Lts THAT CUT BRECCIA. PERVASIVE THROUGH. BRECCIA ZONE IS CUT BY LATER FAULTS SHOWN AS GOUGE ZONES.	.022	.043
	60-70	CONTACT OBSCURED		40-50°	.045	.138
150		YARNELL FAULT ZONE STRONG LT YELLOW GOUGE CLAY ZONE TOP 2.0' 1' STRONG RED HM w/ 2" SILICA (QZ) CAP HM AS MUD/CLAY	OVERALL 20-30% CLAY	Lim / RED HM MUD. / CLAY ZONE AS DESCRIBED.		
	65	CONTINUATION OF BX BUT MORE INTENSLY ALT.	WEAK ALT - PROB ARGILLIC	QZ VN / LT FRAGS - w/in BX	.155	.118
	50	GOOD SHR/FR CONTACT		SHATTERED QZ VN		
		157 STRONGLY ALTERED TEXTURAL DESTRUCTION VERY GUIDING POSS BRECCIATION - TEXTURAL DESTRUCTION BROKEN, CLAY / GOUGY ZONE	STRONG ARGILLIC ALT ↓ TEXTURE DESTRUCTION	- BOTTOM of OBVIOUS Lim/Py CUBES BRECCIA CONTINUES? MOD → STRONG LIMONITIC - FRACTURING / VEINING + VN/Lts - 12-15/Ft MOSTLY AS LONG FRACTURES / VN/Ts FeOx SEEMS TO "TRAVEL" AWAY FROM FRACTURES - CREATING A SELVAGE AROUND FRACTURE.	.125	.110
160	30-60				.020	.051
		- STRONG GOUGE CLAY ZONE - PROB FAULT.		- TR MN DENDRITES ON FRACTURE SURFACE.	.018	.045
170				STRONG GOUGE ZONE w/ ABU CLAY / MUD GOUGE BROKEN FRAGS - POSS BX?		
	30	174 - HEAVY SILICA PROBABLY ARGILLIC CONTACT OBSCURED.	POTASSIC RIM? SEEMINGLY AROUND QZ VN/Lts & Lim VN/Lts	BROKEN / GOUGY ZONE - MOD LIMONITIC ALONG FRACTS -	.111	.01
				ABU HI Lim VN/Lts +/- QZ FGN V. SMALL Py/Lim CUBES LT 1/+; SPECULARITE VN - POSS w/ MNOX AS DENDRITES -	.047	.01
180		CHANGE IN ROCK OR ALT -	POSS. PROPYLITIC ALT -	HI. CALCITE VN/T QZ/SPECULARITE VN/T → 50		
		PINKISH FELDSPARS - ROCK MORE PORPHYRITIC 10-12% PINK K-SPARS	GREENISH TINT - CHLORITIC? LOOKS LIKE BLEACHING in intensity	POSS SPECULARITE IN GREENISH ZONES MNOX - ON FRACTS -	.002	.027
				ABU. GASH VEINS MOSTLY WELL HEALED VNS 3-6/FT OF CALCITE	TR	.018
190				VGY AS SPECULARITE AS DISS + ASSOC w/ VN/Lts - 5-6% FGN 2% Py. 25		
			CHLORITIC ZONES AROUND VN/Lts -	1-3% Py AS RIMS + DISS. 30 40	.007	.02
				10%+ SPECULARITE AS MICROVN/Lts THROUGH CALCITE VN/Lts → 70		
			CARBONATE MTX - GOOD FIZZ	Py X/s IN 1" BRN 10% @ 199: SPECULARITE/HM →	.004	
200						

DIAMOND DRILL RECORD

HOLE NO. YDDH-4

Coord. _____ N _____ E Elev. _____ PROPERTY YARNELL PROJECT

Bearing _____ Inclination _____ Depth 220' LOCATION _____

Started _____ Completed _____ Notes by M. MILLER Scale 1" = 10' Sheet 3 of 3

DEPTH	% REC	A	ROCK TYPE	ALTERATION	B	C	D	E	MINERALIZATION	Graphic Col.	CORE ASSAYS (Au opt)
200			DEFINITE FABRIC IS EVIDENT BY LINEATION OF FELDSPARS +/- 45° DIPS SEE	- BLEACHED ZONE w/ LIM/ SPEC HM.					CALCITE VNLTS GASH VEINS 1/4" WHT QZ VEIN		200 Tr
									LIM/ SPEC HM. X-CUTTING FRACTS 45		
									SILK ZONE 6' TK, 1/8" LIM VNLT @ BS → 30		Te
210			FABRIC	CALCITE/ CARBONATE GASH VEINING							210
	40+/-								VN - w/ LIM 35		TR
									LIM/CALCITE VNLT 20		.002
220											220

TD @ 220'

FRACTURES SEEM TO STEEPEN BELOW YFZ. FROM 50-70° → 30-40°+/-