

APPENDIX A--Data from trench exposures

AL: ALLUVIUM.

AVG: AVERAGE.

B: BOTH N AND D LINE TYPES ON TRENCH LOG.

BR: BRECCIA.

C: IN EXPOSURE NUMBER, NORMAL-OBLIQUE SLIP FAULT; IN "TP" COLUMN, NORMAL-OBLIQUE SLIP.

CA: APPROXIMATELY.

CG: CONGLOMERATE.

CL: CLAY.

CR: CRUSHING.

CT: CATEGORY OF FAULT STRAND, PRINCIPAL (P) OR SUBSIDIARY (S).

CZ: CENOZOIC.

D: (1) IN EXPOSURE NUMBER, REVERSE-OBLIQUE SLIP FAULT; (2) IN "TP" COLUMN, REVERSE-OBLIQUE SLIP; (3) IN "LN" COLUMN, DASHED LINE ON TRENCH LOG.

DEG: DEGREE(S).

DEPTH: DEPTH (METERS) BELOW GROUND SURFACE.

DESIGNATION: TRENCH NUMBER OR NAME GIVEN IN SOURCE REPORT.

DN: DOWN.

DISPL: DISPLACEMENT (SEPARATION OR SLIP) GIVEN IN SOURCE REPORT OR MEASURED ON TRENCH WALL OR TRENCH LOG, METERS.

E: (1) IN EXPOSURE NUMBER, STRIKE-SLIP FAULT; (2) IN "TP" COLUMN, STRIKE-SLIP DISPLACEMENT.

EXP: EXPOSURE, FOR EXAMPLE A TRENCH WALL.

F: FISSURE, EITHER OPEN OR FILLED WITH MATERIAL FROM NEARBY SOURCE.

FLTG: FAULTING.

FLT(S): FAULT(S).

GE: GREATER THAN OR EQUAL TO.

GO: GOUGE.

GOUGE TYPE: INCLUDES BR, CR, GO, MX, PO, SH, SK, SL, SV, RU.

GR: GREENSTONE.

GT: GREATER THAN.

GV: GRAVEL.

HI: HISTORIC.

HO: HOLOCENE.

LE: LESS THAN OR EQUAL TO.

LENGTH: LENGTH OR DISTANCE MEASURED ON TRENCH WALL, METERS.

LI: LIQUEFACTION EFFECTS.

LN: TYPE OF LINE USED IN TRENCH LOG.

LS: LEFT SLIP.

LT: LESS THAN.

MF: MUDFLOW DEPOSIT, CONSOLIDATION NOT SPECIFIED.

MR: MUDFLOW DEPOSIT, CONSOLIDATED.

MS: MUDSTONE.

MTL: MATERIAL IN WHICH THE FAULT STRAND (1) DIES OUT, IS NOT VISIBLE, OR IS OBSCURE OR (2) MATERIAL IN WHICH STRAND IS LAST VISIBLE AT BOTTOM OR TOP OF EXPOSURE.

MX: MIXING.

N: NORMAL-SLIP FAULT WHEN USED IN EXPOSURE NUMBER; NORMAL SEPARATION OR SLIP WHEN USED IN "TP" COLUMN; ELSEWHERE, MEANS DEFINITELY ABSENT--STATED AS SUCH IN REPORT OR REASONABLY INFERRED FROM TRENCH LOG; WITH REGARD TO OBSCURE STRANDS, INDICATES SEGMENTS OF KNOWN FAULT STRANDS WHERE NO LINE IS SHOWN ON LOG.

NO: NUMBER.

O: OBLIQUE SLIP OR SEPARATION.

P: PRINCIPAL STRAND OF A FAULT; MORE THAN ONE CAN BE PRESENT IN THE FAULT ZONE.

PB: PEBBLES IN FAULT ZONE.

PL: PLEISTOCENE.

PO: POLISHED SURFACES ON PEBBLES OR ROCK FRAGMENTS.

PR: PEBBLES ROTATED FROM INITIAL DEPOSITIONAL POSITION.

PRIN: IN COLUMN HEADINGS, PRINCIPAL STRAND OF A FAULT; IN REMARKS, PRINCIPAL.

PT: PEAT.

QU: QUATERNARY.

R: (1) REVERSE-SLIP FAULT WHEN USED IN EXPOSURE NUMBER; (2) REVERSE SEPARATION OR SLIP WHEN IN "TP" COLUMN.

RK: CONSOLIDATED ROCK OF UNSPECIFIED TYPE, OR OF VARIOUS TYPES.

RS: RIGHT SLIP.

RU: FAULT RUBBLE.

S: SUBSIDIARY STRAND OF A FAULT.

SD: SAND.
 SFC: GROUND SURFACE.
 SH: SLICKENSIDES WITH STRIATIONS INCLINED AT A HIGH ANGLE (GE 45 DEG) FROM THE HORIZONTAL, MEASURED ON THE FAULT SURFACE.
 SK: SLICKENSIDES, ORIENTATION OF STRIATIONS NOT SPECIFIED.
 SL: SLICKENSIDES WITH STRIATIONS INCLINED AT A LOW ANGLE (LT 45 DEG) FROM THE HORIZONTAL, MEASURED ON THE FAULT SURFACE.
 SOURCE: SOURCE OF INFORMATION; NUMBER CODE GIVEN AT END OF APPENDIX.
 SP: SERPENTINE, SERPENTINITE.
 SS: SANDSTONE.
 ST: SILT.
 STR(S): FAULT STRAND(S).
 STR NO.: STRAND NUMBER, CONSISTING OF THE EXPOSURE NUMBER AND A SERIAL NUMBER.
 SUB: SUBSIDIARY STRAND OF A FAULT.
 SV: SLICKENSIDES WITH STRIATIONS AT VARIOUS INCLINATIONS.
 TR: TRENCH.
 TP: TYPE OF SEPARATION OR SLIP.
 U: QUANTITY, TYPE, OR CONDITION UNKNOWN OR DOUBTFUL: (1) NOT MENTIONED IN REPORT OR LOG AND COULD BE PRESENT OR ABSENT; (2) UNABLE TO MEASURE OR ESTIMATE; (3) WITH REGARD TO WATER BARRIER MAY INDICATE THAT WATER TABLE WAS BELOW EXPOSURE; (4) WITH REGARD TO DIEOUT UPWARD OR DOWNWARD, INCLUDES TERMINATION AT, OR JOINING TO, ANOTHER FAULT STRAND.
 UB: UNCONSOLIDATED MATERIAL, BOTH FINE AND COARSE; CAN BE MIXTURES, ALTERNATING LAYERS, OR BOTH.
 UC: UNCONSOLIDATED COARSE MATERIAL OF SAND SIZE OR LARGER.
 UF: UNCONSOLIDATED FINE MATERIAL OF SILT SIZE OR SMALLER.
 UR: BOTH UNCONSOLIDATED MATERIALS AND ROCK, OR CONSOLIDATION NOT SPECIFIED.
 US: SOIL ZONE; CONTENT OF ORGANIC MATTER VARIES WIDELY; INCLUDES FOSSIL SOILS.
 UV: UNCONSOLIDATED MATERIALS OF VARIOUS KINDS; MATERIAL IS NOT SPECIFIED IN LOG, OR IT CONSISTS OF A RANGE OF GRAIN SIZES, OR OF VARIED MATERIALS SUCH AS ALLUVIUM, COLLUVIUM, OR FAN DEPOSITS.
 V: VERTICAL SEPARATION OR SLIP.

VERT: VERTICAL.
 VO: VOLCANIC (PYROCLASTIC) DEPOSITS, BOTH CONSOLIDATED AND UNCONSOLIDATED, OR CONSOLIDATION NOT SPECIFIED.
 VR: CONSOLIDATED VOLCANIC (PYROCLASTIC) DEPOSITS.
 VU: UNCONSOLIDATED VOLCANIC (PYROCLASTIC) DEPOSITS.
 WB: GROUND WATER BARRIER.
 WIDTH: WIDTH IN METERS (SEE TEXT)
 Y: YES; MENTIONED IN REPORT OR SHOWN ON TRENCH LOG.
 ?: IN COLUMN HEADING, DOES DIEOUT DOWN OR DIEOUT UP OCCUR?
 --: NO OBSCURE STRAND SEGMENTS RECOGNIZED.
 *A, *B, *C, ETC.: CONTRASTING MATERIALS ON OPPOSITE SIDES OF FAULT STRAND; THE CONTRAST MAY BE IN LITHOLOGIC TYPE, OR IN ASPECTS SUCH AS BEDDING, SORTING, OR COLOR. KEY:

*A, PT & UC	*K, UF & UF	*U, UC & UB
*B, PT & UF	*L, UF & UV	*V, UF & UB
*C, PT & UV	*M, US & UC	*W, UB & UB
*D, RK & RK	*N, US & UF	*X, UR & UC
*E, RK & UC	*O, US & US	*Y, US & MF
*F, RK & UF	*P, US & UV	*Z, UC & MF
*G, RK & UV	*Q, US & VO	*2, US & UB
*H, UC & UC	*R, UV & UV	
*I, UC & UF	*S, VO & UC	
*J, UC & UV	*T, US & RK	

SITE:MANAGUA, NICARAGUA SOURCE:2 FAULT:TISCAPA FAULT ZONE
 EXPOSURE NO:C1 DESIGNATION:MERCADO NO.1B AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:PL

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
GO	Y	U	U	U	U	2.10 GE	24.40	V GT 3.5 M (SOURCE 2, VOL. 1, P. D-8)

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
C1	-	2	P		0.38	R	N MR?	--
C1	-	3	P		0.60	R	N MR?	--
C1	-	5	S	U			N CG	--
C1	-	6	S	U			N CG	--
C1	-	7	S	U			N CG	--
C1	-	8	S	U			N CG	--
C1	-	10	S	U			N CG	--
C1	-	11	S	U			N CG	--
C1	-	12	S	U			N CG	--
C1	-	13	S	U			N CG	--

SITE:MANAGUA, NICARAGUA SOURCE:2 FAULT:TISCAPA FAULT ZONE
 EXPOSURE NO:C2 DESIGNATION:MERCADO NO.2 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI?

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
GO	Y	U	U	U	U	U	GE 58.00	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
C2	-	1	S		0.18	V	N MR	--
C2	-	2	S	U			N MR	--
C2	-	3	S	U			N MR	--
C2	-	4	P		0.60	N	N MR	--
C2	-	5	S	U			N MR	--

STRS 2 AND 3 ARE IN AN OLDER SHEAR ZONE.

SITE:MANAGUA, NICARAGUA SOURCE:2 FAULT:CHICO PELON FAULT ZONE
 EXPOSURE NO:C3 DESIGNATION:MERCADO NO.5 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	U	CA 22.00	WIDTH INCUDES ADJUSTMENT FOR ANGLE BETWEEN TRENCH AND FAULT ZONE.

STR	NO	CT	DISPL	TP	DIEOUT DN DIEOUT UP			OBSCURE SEGMENTS			REMARKS	
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL		
C3	-	1	P		0.25	N	N	GV				
C3	-	2	P		0.15	V	N	GV				
C3	-	3	P	CA	0.15	N	Y	GV				
C3	-	4	S	U			N	GV				
C3	-	5	P		0.15	N	N	GV	0.6	N	GV	
C3	-	8	S	CA	0.01	V	N	GV				
C3	-	11	S		0.05	V	N	GV				
C3	-	17	P		0.15	R	N	GV				
C3	-	18	S	CA	0.03	V	N	GV				

SITE:MANAGUA, NICARAGUA

SOURCE:2,28

FAULT:CHICO PELON FAULT ZONE

EXPOSURE NO:C4

DESIGNATION:I.G.N. BAPTISTA

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	U	7.90	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS			REMARKS		
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL		
C4	-	1	P		0.26	R	N	US	2.10	D	GV	SURFACE DISPL IN 1972 FROM BROWN AND OTHERS (1973) .
C4	-	1	CA		0.2	E	N	GV	--			
C4	-	2	S	U			N	VO	--			
C4	-	3	S	U			N	VO	--			
C4	-	4	S	U			N	VO	--			

SITE:MANAGUA, NICARAGUA

SOURCE:2,28

FAULT:CHICO PELON FAULT ZONE

EXPOSURE NO:C5

DESIGNATION:CHICO PELON NO.1

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
CO	Y	U	U	U	U	0.60 GT	28.90	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE	SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN MTL
C5	-	1	S	CA	0.10	R	U	--	
C5	-	2	P		4.50	R	N *P	--	
C5	-	2			0.26	E		--	
C5	-	3	S?	U			N *D	--	SURFACE DISPL IN 1972 FROM BROWN AND OTHERS (1973) .

SITE:MANAGUA, NICARAGUA				SOURCE:2		FAULT:CHICO PELON FAULT ZONE				
EXPOSURE NO:C6		DESIGNATION:CHICO PELON NO.2				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO				
COUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	
U		Y	U	U	U	U	U	U		

STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS	REMARKS

					? MTL	? MTL	DEPTH	LENGTH	LN	MTL
C6	-	1	S		0.16	V	Y? VR?	--		STRAND MAY BE NONTECTONIC.
C6	-	2	S	U			Y MR?	--		
C6	-	3	S	U			Y US?	--		ENDS DOWNWARD AT BEDDING PLANE.

SITE:MANAGUA, NICARAGUA				SOURCE:2			FAULT:CHICO PELON FAULT ZONE			
EXPOSURE NO:C7		DESIGNATION:CHICO PELON NO.3					AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO			
GOUGE ETC		F LI PB PR WB WIDTH P					WIDTH P+S		REMARKS	
U		U U U U U U					U			

STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS	REMARKS

					? MTL	? MTL	DEPTH	LENGTH LN MTL		

C7	-	1	P?		0.40	N	N	US	--	

SITE:MANAGUA, NICARAGUA				SOURCE:2				FAULT:SAN JUDAS FAULT ZONE.				
EXPOSURE NO:C8		DESIGNATION:SOUTHWEST NO.4				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO						
COUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS			
U		Y	U	U	U	U	U	2.6	STRATIGRAPHIC DIFFERENCES ACROSS FLT INDICATE STRIKE-SLIP COMPONENT.			
STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS		REMARKS	
										LENGTH	LN	MTL
C8	-	1	S		0.50	N	Y	GV	--			
C8	-	2	S		0.44	N	Y	US	--			
C8	-	3	P	CA	0.26	V			0.46	N	US?	
C8	-	3			0.35	V			0.14	N	US?	
C8	-	3		CA	0.44	V			0.49	N	US	
C8	-	3		CA	0.47				0.35	N	US	
C8	-	3	P		0.52	V	Y	GV	--			
C8	-	4	S		0.33	V	Y	GV	--			

C8	-	5	S	0.07	V	Y	VR	--
C8	-	6	S	0.10	V	Y	VR	--
C8	-	7	S	0.12	V	Y	SD	--
C8	-	8	S	0.11	V	Y	US	--

SITE:MANAGUA, NICARAGUA	SOURCE:2	FAULT:SAN JUDAS FAULT ZONE
EXPOSURE NO:C9	DESIGNATION:SOUTHWEST NO.5	AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	U	U	U	2.6	106.0	STRATIGRAPHIC DIFFERENCES ACROSS FLT INDICATE STRIKE-SLIP COMPONENT.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

C9	-	1	S	0.10	N	Y	US	--
C9	-	2	S	0.05	N	Y	GV	--
C9	-	3	S	0.05	N	N	UC	--
C9	-	4	S	0.04	N	N	UC	--
C9	-	5	P	0.23	V	N?	*H	--
C9	-	6	P	0.16	V	N	UC	--
C9	-	7	P	0.04	V	U		--

SITE:LONE PINE, CALIF., USA	SOURCE:5,53	FAULT:LONE PINE
EXPOSURE NO:C10	DESIGNATION:TRENCH A	AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	U	6.40	SEC RUPTURE IN 1872; TRACE COVERED BY DEBRIS FROM SCARP.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

C10	-	1	S	U	N	SD		--
C10	-	2	S	CA 0.40	V	N	SD	--
C10	-	3	S	U	N	SD		--
C10	-	4	S	U	N	SD		--
C10	-	5	P	CA16.	C	N	SD	--
C10	-	5		CA 5.2	C	N	*H	--

STRIKE SLIP 64 M TO SOUTH OF TRENCH.
STRIKE SLIP 64 M TO SOUTH OF TRENCH.

SITE:SAN MATEO COUNTY,CALIF,USA	SOURCE:13	FAULT:CASCADE QUARRY (SAN GREGORIO F. Z.)
EXPOSURE NO:D1	DESIGNATION:CASCADE TRENCH #1	AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
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GO SL

Y Y Y U U

2.5 GT 27.80

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
D1	-	1	S	1.56?	R?	N *E	--	
D1	-	2	S	GT 4.08	R	N *I	--	
D1	-	4	P	CA25.00	R	N *F	--	DISPL BASED ON DATA IN TABLE 2, SOURCE 13.
D1	-	5	S	U		N SS	--	
D1	-	6	S	U		N SS	--	
D1	-	7	S	U		N SS	--	
D1	-	8	S	U		Y SS	--	
D1	-	15	S	U		N SS?	--	
D1	-	16	S	U		N SS	--	
D1	-	18	S	U		Y SS	--	
D1	-	21	S	U		N SS	--	
D1	-	22	S	U		Y SS	--	
D1	-	23	S	U		Y SS	--	
D1	-	24	S	U		Y SS	--	
D1	-	25	S	U		Y SS	--	
D1	-	26	S	U		Y SS	--	
D1	-	27	S	U		N SS	--	
D1	-	28	S	U		Y SS	--	
D1	-	30	S	U		Y SS	--	
D1	-	31	S	U		N SS	--	
D1	-	33	S	U		N SS	--	
D1	-	34	S	U		N SS	--	
D1	-	37	S	U		Y SS	--	
D1	-	38	S	U		N SS	--	
D1	-	39	S	U		Y SS	--	
D1	-	40	S	U		Y SS	--	
D1	-	41	S	U		N SS	--	
D1	-	42	S	U		Y SS	--	
D1	-	43	S	U		Y SS	--	
D1	-	44	S	U		N SS	--	
D1	-	45	S	U		N SS	--	
D1	-	46	S	U		N SS	--	
D1	-	47	S	U		N SS	--	
D1	-	48	S	U		N SS	--	
D1	-	49	S	U		N SS	--	
D1	-	50	S	U		N SS	--	
D1	-	52	S	U		N SS	--	
D1	-	53	S	U		N SS	--	
D1	-	54	S	U		N SS	--	
D1	-	55	S	U		N SS	--	

SITE:SAN MATEO COUNTY,CALIF,USA

SOURCE:13

FAULT:CASCADE QUARRY (SAN GREGORIO F. Z.)

EXPOSURE NO:D2

DESIGNATION:CASCADE TRENCH # 2

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
MX?	Y	U	Y	U	U	U	GT 9.12	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

D2	-	1	P	GE	2.40	R	N	*U	--			
D2	-	4	S	U			Y	SD	--			
D2	-	5	S	U			N	SD	--			
D2	-	6	S	U			N	SD	--			
D2	-	7	S	U			N?	SD	--			
D2	-	8	S	U			Y?	SD	--	0.2	N	CG
D2	-	9	S	U			Y	CG	--			
D2	-	10	S	U			N	SD	--	0.06	N	CG
D2	-	11	S	U			Y	CG	--			
D2	-	12	S	U			N	SD	--			
D2	-	13	S	U			N?	SD	--	0.20	N	SD
D2	-	16	S		0.10	N	N	SD	--			
D2	-	17	S	U			N	CG	--			
D2	-	18	S	U			N	CG	--			
D2	-	19	S	U			N	CG	--			
D2	-	20	S	U			N	SD	--			

SITE: NEAR CORRALITOS, CALIF., U.S.A.				SOURCE: 47				FAULT: ZAYANTE-VERGELES			
EXPOSURE NO: D3				DESIGNATION: BEAN HILL TRENCH				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE: HO?			
COUGE ETC				F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
CO SL				Y	N	Y	U	U	U	U	AGE ASSUMES MOST SAG PONDS ARE HOLOCENE. PROBABLY NO LIQUEFIABLE UNITS

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS			REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL
D3	-	1	S	GT 0.70?	D	N	*D	--		
D3	-	2	P	CA 1.40?	D	N	*W	--		
D3	-	3	P	CA 1.10?	D	N	*D	--		
D3	-	4	S	CA 0.30?	D	U		--		
D3	-	5	S	LT 0.70?	D	N	RK	--		

SITE: SAN BERNARDINO, CALIF, USA				SOURCE: 16				FAULT: SAN JACINTO			
EXPOSURE NO: E1				DESIGNATION: TRENCH NO. 3				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE: HO			
COUGE ETC				F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U				U	U	Y	Y	U	U	GT 15.70	FAULT ZONE EXTENDS BEYOND TRENCH.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS			REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL
E1	-	1	S	U		N	UC	--		
E1	-	2	S	U		N	*H	--		
E1	-	3	S	U		N	*H	--		
E1	-	6	P	U		E	N	*H	--	
E1	-	8	P	U		E	N	*H	--	1.50 D ST
E1	-	9	S		0.30	N	N	*H	--	

E1	-	10	S	U		N	UC	--			
E1	-	11	S		0.14	N	N SD	--			
E1	-	12	S		0.10	V	N *H	--			
E1	-	14	S	U			N *H	--			
E1	-	15	S	U			N SD	--			
E1	-	17	S	U			N SD	--			
E1	-	20	S	U		E	N SD	--			
E1	-	21	S	U			N SD	--			
E1	-	22	S		0.07	N	N SD	--	0.03	D	GV
E1	-	23	S	U			N SD	--			
E1	-	24	S	U			N SD	--			
E1	-	26	S	U			N *H	--			
E1	-	27	S		0.43	N	N *H	--			
E1	-	28	S	U		E	N SD	--			

SITE:SAN BERNARDINO,CALIF,USA

SOURCE:17

FAULT:SAN JACINTO

EXPOSURE NO:E2

DESIGNATION:TRENCH NO.1

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	Y	U	U	U	39 6	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH LN MTL	

E2	-	1	P	U		N *I	--	
E2	-	5	S	U		Y UB	--	
E2	-	6	S	U		Y UC	--	
E2	-	7	S	U		Y UB	--	
E2	-	8	S	U		Y UB	--	
E2	-	9	S	U		Y UB	--	
E2	-	10	S		0.09	V	Y UC	--
E2	-	11	S	U		Y UB	--	
E2	-	12	S	U		Y UB	--	
E2	-	13	S	U		Y UC	--	
E2	-	14	S	U		E N UC	--	
E2	-	15	S	U		E N UC	--	
E2	-	16	S	U		Y UC	--	
E2	-	17	S		0.05	V	Y UC	--
E2	-	18	S	U		Y UC	--	
E2	-	19	S	U		Y UC	--	
E2	-	20	S	U		Y ST	--	
E2	-	21	S	U		Y UB	--	
E2	-	22	S	U		Y ST	--	
E2	-	23	S		0.07	N	Y UB	--
E2	-	24	S	U		Y ST	--	
E2	-	25	S	U		Y ST	--	
E2	-	26	S		0.08	N	Y UB	--
E2	-	27	S	U		Y UB	--	
E2	-	28	S	U		U	--	
E2	-	29	P	U		E N ST	--	
E2	-	30	S		0.05	V	Y ST	--
E2	-	31	S		0.09	V	Y ST	--
E2	-	32	S	U		Y ST	--	
E2	-	33	S	U		Y ST	--	
E2	-	34	S	U		Y ST	--	
E2	-	35	S	U		Y ST	--	
E2	-	36	S	U		N *I	--	

E2	-	37	P	U		E	N	SD	--		V IS ABOUT 2 M (SOURCE 17, P. A-8) .
E2	-	38	S	U		E	N	*J	--		
E2	-	39	S		0.16	V	N	ST	--		
E2	-	40	S		0.09	V	N	*I	--		
E2	-	41	S	U			N	UC	--		
E2	-	42	S	U			N	UC	--		
E2	-	43	S	U			Y	UB	--		
E2	-	44	S	U			Y	ST	--		
E2	-	45	S	U			Y	ST	--		

SITE:SAN BERNARDINO,CALIF,USA SOURCE:18 FAULT:SAN JACINTO

EXPOSURE NO:E3 DESIGNATION:SOUTH OF WALNUT ST. AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	Y	Y	U	U	2.1	16.70	FLT ZONE WIDENS UPWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E3	-	3	S	U	Y	UC	--	
E3	-	4	S	U	Y	SD	--	
E3	-	5	S	CA	0.10	R	N	UC
E3	-	6	S		0.30	R	U	
E3	-	8	S	U	Y	UC	--	
E3	-	9	S	U	Y	UC	--	
E3	-	11	S		0.17	R	N	ST
E3	-	12	P	U		N	ST	
E3	-	15	S	U	R	Y	UC	
E3	-	19	S	U	V	U		0.90 D UC
E3	-	21	S	U		N	ST	
E3	-	22	S	U	R	U	--	
E3	-	23	S	U	R	Y	UC	
E3	-	24	P	U	E	N	*K	
E3	-	32	P	U	E	N	*K	
E3	-	34	S	U	Y	CL	--	

SITE:SAN BERNARDINO,CALIF,USA SOURCE:18 FAULT:SAN JACINTO

EXPOSURE NO:E4 DESIGNATION:TRENCH 1 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	1.9	7.90	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E4	-	3	S	GE	0.41	V	Y	SD
E4	-	4	S	GE	0.81	V	N	*H
E4	-	5	P		0.53	N	N	*H

E4 - 6 P 0.35 N N *H

--

SITE:SAN BERNARDINO,CALIF,USA

SOURCE:18

FAULT:SAN JACINTO

EXPOSURE NO:E5 DESIGNATION:TRENCH 2

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	1.8	2.80	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

E5	-	1	P		0.25	R	U		1.10 B SD
E5	-	2	P		0.25	R	U		1.80 B SD
E5	-	4	P		0.18	R	N *H		1.60 B SD
E5	-	5	S	CA	0.03	N	U	--	
E5	-	6	S	CA	0.02	R	N SD	--	
E5	-	7	P	CA	0.70	V	N *H	--	
E5	-	12	S	U		Y	SD	--	

SITE:SAN BERNARDINO,CALIF,USA

SOURCE:18

FAULT:SAN JACINTO

EXPOSURE NO:E6 DESIGNATION:TRENCH 3

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	0.07	2.20	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

E6	-	1	P		0.40	R	N SD	--	
E6	-	2	P	CA	0.46	N	U	0.36 D SD	
E6	-	4	S		0.16	R	N SD	--	
E6	-	5	S	CA	0.16	R	U	--	

SITE:LIVERMORE VALLEY,CALIF,USA

SOURCE:19

FAULT:LAS POSITAS

EXPOSURE NO:E7 DESIGNATION:MCDONALD TRENCH 1

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	N	N	Y	Y	Y	CA	0.40 U	WIDTH INCLUDES ZONE OF ROTATED PEBBLES.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
-----	----	----	-------	----	-----------	-----------	------------------	---------

		? MTL	? MTL	DEPTH	LENGTH	LN	MTL				
E7	- 1 P U	N	*H		1.05	D	UC				
SITE:NEAR LIVERMORE,CALIF,USA SOURCE:19 FAULT:GREENVILLE											
EXPOSURE NO:E8		DESIGNATION:CARATI W.				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:QU					
GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS		
GO		N	U	Y	N	U	0.05	U			
STR NO CT DISPL TP DIEOUT DN DIEOUT UP OBSCURE SEGMENTS REMARKS											
			? MTL		? MTL	DEPTH	LENGTH	LN	MTL		
E8	- 1 P U	N	*I				--				
SITE:NEAR WOODVILLE,CALIF,USA SOURCE:19 FAULT:SAN ANDREAS											
EXPOSURE NO:E9		DESIGNATION:STRAIN RANCH, NORTH WALL				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI					
GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS		
N		Y?	N	Y	Y	U	CA	0.20	U	PEBBLE ROTATION IS LOCALIZED.	
STR NO CT DISPL TP DIEOUT DN DIEOUT UP OBSCURE SEGMENTS REMARKS											
			? MTL		? MTL	DEPTH	LENGTH	LN	MTL		
E9	- 1 P	2.60	E	Y	CL	Y	US	CA 0.20	CA 0.20	N	US
E9	- 1	2.60	E					CA 0.60	N	CL	
US DEVELOPED ON CL. OBSCURE SEGMENT AT TOP OF TRENCH.											
OBSCURE SEGMENT AT BOTTOM OF TRENCH.											
SITE:NEAR WOODVILLE,CALIF,USA SOURCE:19 FAULT:SAN ANDREAS											
EXPOSURE NO:E10		DESIGNATION:STRAIN RANCH, SOUTH WALL				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI					
GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS		
N		Y	N	Y	Y	U	U	U	OBSCURE STR SEGMENTS NEAR TOP AND BOTTOM OF TRENCH.		
STR NO CT DISPL TP DIEOUT DN DIEOUT UP OBSCURE SEGMENTS REMARKS											
			? MTL		? MTL	DEPTH	LENGTH	LN	MTL		
E10	- 1 P	2.60	E	Y?	CL	Y	US	CA 0.50	CA 0.50	N	US
E10	- 1	2.60	E					CA 0.60	N	CL	
US DEVELOPED ON CL.											

SITE:SOUTHWEST OF OLEMA,CALIF,USA				SOURCE:19		FAULT:SAN ANDREAS			
EXPOSURE NO:E11		DESIGNATION:TRENCH AT VEDANTA SOCIETY				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI			
GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
GO MX		N	U	Y	Y	U	1.35	U	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS		REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL	

E11 -	1	P	U		N *H	Y US	0.5	0.5 N US	RS 0.9 KM TO NORTH WAS 4.7 M IN 1906. US DEVELOPED ON UB.

SITE:NEAR SONOMA,CALIF,USA				SOURCE:19		FAULT:RODGERS CREEK			
EXPOSURE NO:E12		DESIGNATION:DONNELL SITE				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO			
GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
GO BR		Y	U	Y	U	U	CA	0.24	U VERTICAL CLAY SEAMS 5 TO 16 M WEST OF FLT MAY BE FROM WARPING.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS		REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL	

E12 -	1	P	U		N *I			0.30 D	CL

SITE:NORTH OF HOLLISTER,CALIF,USA				SOURCE:19		FAULT:CALAVERAS			
EXPOSURE NO:E13		DESIGNATION:BERTUCCIO TRENCH				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI			
GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
GO SL		Y	U	N	U	U	0.6	23.9	TECTONIC CREEP IS OCCURRING AT THIS SITE ON STR NO. 1.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS		REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL	

E13 -	1	P	U	E	N CL	Y US	0.80	0.80 N US	ZONE WIDENS UPWARD. US DEVELOPED ON ST AND SD.
E13 -	2	S?	U		N *I		--		ZONE WIDENS UPWARD. HAS LARGER V THAN STR NO.1

SITE:MANAGUA, NICARAGUA				SOURCE:2		FAULT:ESTADIO F. Z.			

EXPOSURE NO:E14 DESIGNATION:I.G.N. NO. 20

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	U		

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E14 -	1	S	0.10	N	N	US	--	
E14 -	2	S	0.10?	N	N	US	0.60	D : CL?

SITE:MANAGUA, NICARAGUA

SOURCE:2

FAULT:ESTADIO F. Z.

EXPOSURE NO:E15 DESIGNATION:SAN SEBASTIAN NO. 3

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	U	6.20	FAULT ZONE WIDENS UPWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E15 -	1	S	0.24	N	N	SD	1.10	D US
E15 -	2	S	0.20	N	N	SD	1.50	D US
E15 -	3	P	0.92	N	N	UB	0.90	D US

SITE:MANAGUA, NICARAGUA

SOURCE:2

FAULT:ESTADIO F. Z.

EXPOSURE NO:E16 DESIGNATION:SAN SEBASTIAN NO. 4

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	U		

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E16 -	1	S	0.17	V	Y	US	--	HO V 0.17 M, PL V CA 0.22 M (SOURCE 2, VOL.1).

SITE:MANAGUA, NICARAGUA

SOURCE:2,28

FAULT:LOS BANCOS FAULT ZONE

EXPOSURE NO:E17 DESIGNATION:CALLE COLON NO.5

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC			F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS		
U			Y	U	U	U	U	U	60.70	TR CROSSES 1972 ZONE OF MINOR LS SEC FLTS (SOURCE 28).		

STR	NO	CT	DISPL	TP	DIEOUT DN			DIEOUT UP		OBSCURE SEGMENTS	REMARKS	
					?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL
E17 -	1	P	0.15	V	N	US				--		
E17 -	2	S	0.03	V	N	US				--		
E17 -	3	S	0.03	V	N	US				--		
E17 -	4	S	0.01	V	Y	US				--		
E17 -	5	S	0.02	V	N	US				--		
E17 -	6	S	0.05	V	N	CV				--		
E17 -	7	S	0.07	V	N	CV				--		
E17 -	8	S	0.01	V	N	US				--		
E17 -	9	S	0.01	V	N	US				--		

SITE:MANAGUA, NICARAGUA				SOURCE:2				FAULT:LOS BANCOS FAULT ZONE				
EXPOSURE NO:E18				DESIGNATION:I.G.N. NO. 13				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO				

GOUGE ETC			F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS		
U			U	U	U	U	U	U	U			

STR	NO	CT	DISPL	TP	DIEOUT DN			DIEOUT UP		OBSCURE SEGMENTS	REMARKS	
					?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL
E18 -	1	P	0.20	V	N	UV?				0.29	D	VO

SITE:MANAGUA, NICARAGUA				SOURCE:2				FAULT:LOS BANCOS FAULT ZONE				
EXPOSURE NO:E19				DESIGNATION:BANCOS NO.1				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO				

GOUGE ETC			F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS		
U			Y	U	U	U	U	U	CA 100.00	WIDTH FROM SOURCE 2, VOL. 1, P. D-7.		

STR	NO	CT	DISPL	TP	DIEOUT DN			DIEOUT UP		OBSCURE SEGMENTS	REMARKS	
					?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL
E19 -	1	P	0.18	N	N	SS				--		
E19 -	2	S	0.12	V	N	SS?				--		
E19 -	4	S	0.06	V	N	SD				0.49	D	SS
E19 -	5	S	0.01	V	N	SD				--		
E19 -	6	S	0.10	V	N	SS				--		
E19 -	7	S	U		Y	SS				--		
E19 -	8	S	U		Y	SD				--		

E19 - 9 S	U			N	SS	--	
E19 - 10 S		0.10	V	N	SS	--	
E19 - 11 S	U			Y	SS	--	ENDS DOWNWARD AT BEDDING PLANE.
E19 - 12 S		0.10	V	N	SS	--	
E19 - 13 S		0.13	V	N	UR	--	
E19 - 14 S		0.04	V	N	UR	--	
E19 - 15 S	U			N	UR	--	
E19 - 16 S	U			N	UR	--	
E19 - 17 S	U			N	GV	--	
E19 - 18 S		0.05	V	N	GV	--	
E19 - 19 S		0.01	V	N	GV	--	
E19 - 20 S	U			N	GV	--	
E19 - 21 S	U			N	GV	--	
E19 - 22 S	U			N	GV	--	
E19 - 23 S	U			Y	CG	--	
E19 - 24 S	U			N	SS	--	
E19 - 25 S		0.03	V	N	SS	--	
E19 - 26 S		0.07	V	N	SS	--	
E19 - 27 S		0.06	V	U		--	
E19 - 28 S		0.04	V	N	SS	--	
E19 - 29 S		0.01	V	N	SS?	--	
E19 - 30 S		0.02	V	N	SS?	--	
E19 - 31 S		0.03	V	N	SS	--	
E19 - 32 S		0.02	V	N	SS	--	
E19 - 33 S		0.05	V	N	SS	--	
E19 - 34 S	U			N	SS	--	
E19 - 35 S		0.02	V	N	SS	--	
E19 - 36 S	U			N	SS	--	
E19 - 37 S	U			Y	SS	--	
E19 - 38 S	U			N	SS	--	
E19 - 39 S	U			N	SS	--	
E19 - 40 S	U			N	SS	--	
E19 - 41 S	U			Y	SS	--	
E19 - 42 S		0.08	V	N	UB	--	
E19 - 43 S	U			Y	SS	--	
E19 - 44 S		0.03	V	U		--	
E19 - 45 S		0.04	V	U		--	

SITE:MANAGUA, NICARAGUA

SOURCE:2

FAULT:LOS BANCOS FAULT ZONE

EXPOSURE NO:E20 DESIGNATION:BANCOS NO. 5

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	U	U	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH LN MTL	

E20 - 1 S		0.02	N?	N	SS			
E20 - 2 S	U			N	SS			
E20 - 3 S		0.08	V	N	SS			
E20 - 4 S	U			N	SS			
E20 - 5 S		0.09	V	N	SS?			
E20 - 6 P		0.15	V	N	SS?			
E20 - 7 S		0.04	V	N	SS?		0.10 N UC	
E20 - 8 S	U			N	SS			
E20 - 9 S		0.05	R	N	UR			
E20 - 10 S	U			N	SS			

SITE:MANAGUA, NICARAGUA

SOURCE:2

FAULT:LOS BANCOS FAULT ZONE

EXPOSURE NO:E21 DESIGNATION:ESTACION FERROCARRIL NO.1

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
CO	Y	U	U	U	U	U		

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E21 -	1	S	0.05	V	N	MF	--	
E21 -	2	S	U		N	*Z	--	
E21 -	3	S	0.06	V	Y	GV	--	
E21 -	4	S	U		Y	GV	--	
E21 -	6	P?	0.15	V	N	MF	--	
E21 -	7	S	0.07	V	Y	SD	0.70	D MF

SITE:MANAGUA, NICARAGUA

SOURCE:2

FAULT:LOS BANCOS FAULT ZONE

EXPOSURE NO:E22 DESIGNATION:ESTACION FERROCARRIL NO.2

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
CO	Y	U	U	U	U	U	CA 225.0	WIDTH BASED ON EXPOSURES E21 THROUGH E25, WHICH CROSS WHOLE ZONE.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E22 -	1	S	0.06	V	Y	SD	--	
E22 -	2	S	0.02	V	Y	SD	--	
E22 -	3	S	0.05	V	N	SD	--	
E22 -	4	S	0.02	V	Y	SD	--	
E22 -	5	S	0.04	V	Y	SD	--	
E22 -	6	S	0.01	V	Y	SD	--	
E22 -	7	S	0.01	V	N	SD	--	
E22 -	8	S	0.03	V	Y	SD	--	
E22 -	9	S	0.01	V	Y	SD	--	
E22 -	10	S	0.01	V	Y	SD	--	
E22 -	11	S	0.02	V	Y	SD	--	
E22 -	12	S	0.02	V	Y	MF	--	
E22 -	13	S	CA 0.01	V	Y	SD	--	ENDS DOWNWARD AT BEDDING PLANE.
E22 -	14	S	CA 0.01	V	Y	SD	--	ENDS DOWNWARD AT BEDDING PLANE.
E22 -	18	S	0.02	V	Y	MF	--	ENDS DOWNWARD AT BEDDING PLANE.
E22 -	19	S	0.02	V	Y	MF	--	ENDS DOWNWARD AT BEDDING PLANE.
E22 -	20	S	0.02	V	Y	MF	--	ENDS DOWNWARD AT BEDDING PLANE.
E22 -	22	S	0.05	V	Y	SD	--	
E22 -	24	S	0.05	V	Y	SD	--	
E22 -	26	S	0.05	V	Y	SD	--	
E22 -	27	S	0.01	V	Y	MF	--	
E22 -	28	S	0.06	V	Y	SD	--	

E22 - 30 S	0.03	V	Y	ME	--	
E22 - 32 S	0.04	V	Y	ME	--	
E22 - 33 S	U		Y	ME	--	
E22 - 34 S	0.06	V	Y	SD	--	
E22 - 35 S	CA 0.40	V	Y?	SD	--	SEEMS TO END DOWNWARD AT BEDDING PLANE.
E22 - 36 P	0.41	V	N	*X	--	
E22 - 37 S	0.05	V	Y	ME	--	
E22 - 38 S	0.05	V	N	ME	--	STEPS OVER 0.1 M AT BEDDING PLANE.
E22 - 40 S	0.02	V	N	ME	--	
E22 - 41 S	0.04	V	Y	SD	--	
E22 - 42 S	0.05	V	Y	SD	--	
E22 - 43 S	0.05	V	N	ME	--	0.70 D UR
E22 - 44 S	0.06	V	Y	ME	--	
E22 - 45 S	0.02	V	Y	ME	--	
E22 - 46 S	U		Y	ME	--	

SITE:MANAGUA, NICARAGUA SOURCE:2 FAULT:LOS BANCOS FAULT ZONE

EXPOSURE NO:E23 DESIGNATION:ESTACION FERROCARRIL NO.3 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
GO	Y	U	U	U	U	U	U	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH LN MTL	
E23 - 1	P?	0.14	R	N	ME		--	
E23 - 2	S	0.03	V	N	ME		--	
E23 - 4	S CA	0.10?	V	Y	SD		--	
E23 - 5	S U			Y	SD		--	NO VERTICAL SEPARATION ON STRS 5-14; THEY MAY BE JOINTS.
E23 - 6	S U			N	SD		--	
E23 - 7	S U			Y	SD		--	
E23 - 8	S U			N	SD		--	
E23 - 9	S U			N	SD		--	
E23 - 10	S U			N	SD		--	
E23 - 11	S U			N	SD		--	
E23 - 12	S U			N	SD		--	
E23 - 13	S U			N	SD		--	
E23 - 14	S U			N	GV		--	
E23 - 15	S	0.12	V	Y	SD		--	

SITE:MANAGUA, NICARAGUA SOURCE:2 FAULT:LOS BANCOS FAULT ZONE

EXPOSURE NO:E24 DESIGNATION:ESTACION FERROCARRIL NO.4 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	0.85	U	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH LN MTL	

E24 - 1 P?	0.24	V	N	*E	--	
E24 - 2 S			N	SD	--	
E24 - 3 S			N	SS	--	NO VERTICAL SEPARATION ON STRS 3-9; THEY MAY BE JOINTS.
E24 - 4 S			N	SS	--	
E24 - 5 S			N	SS	--	
E24 - 6 S			N	SS	--	
E24 - 7 S			Y	SS	--	
E24 - 8 S			Y	SD	--	
E24 - 9 S			N	SS	--	
E24 - 10 S	0.01	V	N	SS	--	
E24 - 11 S			N	SS	--	
E24 - 12 S			N	SS	--	
E24 - 13 S	0.02	V?	U		--	

SITE:MANAGUA, NICARAGUA SOURCE:2 FAULT:LOS BANCOS FAULT ZONE

EXPOSURE NO:E25 DESIGNATION:I.G.N. NO.15 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	U	U	U	U	U	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

E25 - 1 S	0.10?	V	N?	GV	--	
E25 - 2 S	0.02?	V	Y	GV	--	
E25 - 3 S	0.03?	V	Y	GV	--	

SITE:SAN LEANDRO, CALIF., USA SOURCE:20 FAULT:HAYWARD

EXPOSURE NO:E26 DESIGNATION:NORTH TRENCH AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	N	N		U	U	U	RECONNAISSANCE EXAMINATION. ZONE WIDENS UPWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

E26 - 1 P	U	E	N	CL	Y	CL	1.00	1.00	N	CL	CREEPING TRACE OF FAULT. NO LIQUEFIABLE UNITS
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SITE:SAN LEANDRO, CALIF., USA SOURCE:20 FAULT:HAYWARD

EXPOSURE NO:E27 DESIGNATION:SOUTH TRENCH AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
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SL GO		U N N		U U		U		RECONNAISSANCE EXAMINATION. NO LIQUEFIABLE UNITS.			
STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP		OBSCURE SEGMENTS	REMARKS		
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL	
E27	-	1	P U	E	N *K	Y CL	1.50	1.50	N	CL	CREEPING TRACE OF FAULT. FAULT ZONE WIDENS UPWARD.
SITE:SAN MATEO COUNTY, CALIF., USA SOURCE:21 FAULT:SAN ANDREAS											
EXPOSURE NO:E28				DESIGNATION:TRENCH A				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI			
GOUGE ETC		F LI PB PR WB		WIDTH P		WIDTH P+S		REMARKS			
GO	SL CR PO	Y	N N	U	2.70	GT	9.00	PRIN FLT ZONE NARROWS UPWARD. 1906 SUBSIDIARY FLT WEST OF TRENCH.			
STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP		OBSCURE SEGMENTS	REMARKS		
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL	
E28	-	1	S U		N	SP		--			
E28	-	2	S U		N	SP		--			
E28	-	3	S U		Y	SP		--			
E26	-	4	S U		Y	SP		--			
E28	-	5	S GT 2.00	R	N	*D		--			
E28	-	7	S GT 1.20	V	N	*F		--			
E28	-	8	S GT 0.70	V	N	CL		--			
E28	-	9	P? 0.20	V	N	CL		0.70	D	CL	
E28	-	10	S U		N	*K		--			
E28	-	11	S U		Y	UV		--			
E28	-	12	S U		Y	UV		--			
E28	-	13	P 2.70	E	N *K	Y UF	0.20	1.00	B	UF	RS CA 2.7 M AT SEC IN 1906
E28	-	14	S U		N	*K		1.10	D	UF	
SITE:SAN MATEO COUNTY, CALIF., USA SOURCE:21,20 FAULT:SAN ANDREAS											
EXPOSURE NO:E29				DESIGNATION:TRENCH B				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI			
GOUGE ETC		F LI PB PR WB		WIDTH P		WIDTH P+S		REMARKS			
SL	SH PO	Y	N N	U	0.1		25.5	RS CA 2.7 M AT SEC IN 1906.			
STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP		OBSCURE SEGMENTS	REMARKS		
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL	
E29	-	2	S	0.08	V	Y GR		--			
E29	-	3	S U		Y	UV		--			
E29	-	4	S U		Y	UV		--			
E29	-	16	S	0.30	V	Y UV		--			
E29	-	19	S U		Y	UV		--			

		?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL
E31 - 1 S	1.20 N	U					--		
E31 - 17 S	U						0.18	D	SD
E31 - 2 S	0.06 N	U					--		
E31 - 3 S	0.05 N	U					--		
E31 - 6 S	0.05? N	U					--		
E31 - 7 S	CA 0.03 N	U					--		
E31 - 9 S	0.08 N	U					0.10	D	ST
E31 - 10 S	CA 0.03 N	Y SD					--		
E31 - 11 P	CA 2.00 E	N *B	N	*W			--		
E31 - 13 S	0.10 N	N UV					--		
E31 - 14 S	0.02 N	Y ST					--		
E31 - 15 S	0.06 N	Y SD					--		
E31 - 16 S	0.02 N	Y PT					--		

SEEMS TO END DOWNWARD (I.E., NO V) AT PEAT BED.

DISPL FROM SIEH (1984).

DISPL FROM SIEH (1978, P. 3922).

SITE:PALLETT CREEK, CALIF., USA

SOURCE:22,29 FAULT:SAN ANDREAS

EXPOSURE NO:E32 DESIGNATION:EXP 3

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	0.42	3.40	CA 2.0 M RS IN 1857 (SIEH,1984, P. 7660). PRIN FLT WIDENS UPWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS			REMARKS	
					?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL	
E32 -	1	S	0.02	N	Y	ST				--			
E32 -	2	S	0.02	N	Y	ST				--			
E32 -	3	S	0.01	R	N	*I?				--			
E32 -	4	P	2.00	E	N	*A				--			
E32 -	5	S	0.06	R	U					0.06	B	SD	DISPL FROM SIEH (1984).
E32 -	7	S	0.02	N	U					--			ONE SEGMENT SEEMS TO TERMINATE DOWNWARD AT SAND LAYER.
E32 -	8	S	0.06	N						0.11	D	SD	
E32 -	8	S	0.02	V	N?					--			
E32 -	9	S	0.03	V	U					--			SEEMS TO TERMINATE DOWNWARD AT PEAT LAYER.
E32 -	10	S	0.04	N	N?	PT				0.10	D	ST	
E32 -	10		0.08	N						0.09	D	SD	
E32 -	10		0.04	N						0.06	D	SD	
E32 -	11	S	0.02	N	Y	ST				--			SEEMS TO TERMINATE DOWNWARD AT PEAT LAYER.
E32 -	12	S	0.01	R	N?	PT				--			
E32 -	13	S	0.04	V	N	PT				0.16	D	SD	

DISPL FROM SIEH (1984).

ONE SEGMENT SEEMS TO TERMINATE DOWNWARD AT SAND LAYER.

SEEMS TO TERMINATE DOWNWARD AT PEAT LAYER.

SEEMS TO TERMINATE DOWNWARD AT PEAT LAYER.

SITE:PALLETT CREEK, CALIF., USA

SOURCE:22 FAULT:SAN ANDREAS

EXPOSURE NO:E33 DESIGNATION:EXP 5

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	Y	U	U	U	U	GT 5.10	DOES NOT CROSS MAIN FAULT ZONE.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
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					? MTL	? MTL	DEPTH	LENGTH	LN	MTL	
E33 - 1 S		0.14	R	U				--			
E33 - 2 S		0.03	N	Y	ST			--			
E33 - 4 S		0.02	R	U				0.09	D	SD	
E33 - 9 S		0.07	N	Y	ST			--			ENDS DOWNWARD AT SILT LAYER.
E33 - 11 S		0.11	N	Y?	SD			--			
E33 - 12 S	CA	0.09	N	Y	SD			--			
E33 - 13 S		0.06	N	Y	SD			--			
E33 - 14 S		0.30?	N	N	*A			--			
E33 - 15 S		0.08	V	U				--			
E33 - 17 S		0.05	N	Y	SD			--			
E33 - 19 S		0.07	N	Y	ST			--			

SITE:PALLET CREEK, CALIF., USA

SOURCE:22,29 FAULT:SAN ANDREAS

EXPOSURE NO:E34 DESIGNATION:EXP 10

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	Y	Y	Y	U	0.06	7.20	CA 2.0 M RS IN 1857 (SIEH, 1984, P. 7660). PEBBLE ROTATION ON STR 44.

STR	NO	CT	DISPL	TP	DIEOUT DN DIEOUT UP			OBSCURE SEGMENTS			REMARKS		
					?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL	
E34 -	1	S	0.05	N	Y	SD				0.24	N	SD	DISPL FROM SIEH (1978,P.3919).
E34 -	2	S	0.04	N	Y	SD				--			SEEMS TO END DOWNWARD AT SAND LAYER.
E34 -	3	S	0.06	N	Y	SD				0.05	D	SD	
E34 -	4	S	0.03	N	Y	SD				--			
E34 -	5	S	0.01	N	Y	SD				--			
E34 -	8	S	0.02	N	Y	SD				0.11	D	UB	
E34 -	9	S	0.08	N	Y	SD				0.08	N	UB	
E34 -	10	S	0.20	N	N	*A				--			DISPL FROM SIEH (1978, P. 3919) AND LOG.
E34 -	11	S	0.02	N	Y	SD				--			
E34 -	15	S	0.08	R	N	SD				0.04	N	SD	
E34 -	16	S			N	*H				--			
E34 -	17	S			Y	ST				--			STR SEEMS TO END DOWNWARD AT SAND LAYER. NEAR SANDBLOW.
E34 -	18	S	0.17	R	Y	ST				--			DIES OUT DOWNWARD AT SAND LAYER.
E34 -	19	S	0.12?	N	U					0.12	D	SD	
E34 -	51	S	0.07	N	Y	SD				--			
E34 -	52	S	0.11	V	U					--			
E34 -	20	S	0.07	N	Y	SD				--			
E34 -	21	P	2.00	E	N	*J				0.10	D	SD	STR SEEMS TO END DOWNWARD, BUT CONTINUES 0.05 M AWAY.
E34 -	22	P	0.06	N	Y	SD				--			
E34 -	23	S	0.05	N	Y	ST				--			
E34 -	25	S	0.07	N	Y	SD				--			
E34 -	26	S	0.04	N	N	*B				--			
E34 -	27	S	0.15	N	Y	SD				--			
E34 -	28	S	0.08	N	N	*K				--			
E34 -	29	S	0.21	N	Y	SD				--			DISPL FROM SIEH (1978, P. 3923).
E34 -	31	S	0.07	N	N	ST				--			
E34 -	33	S	0.02	N	N	*B				--			
E34 -	34	S	0.08	N	N	ST				--			
E34 -	36	S	0.09	N	Y	ST				--			
E34 -	41	S	0.19	N	N	*H				0.04	D	SD	
E34 -	43	S	0.03	N	Y	ST				--			
E34 -	44	S	0.18	N	N	*R				0.23	D	UC	DISPL FROM SIEH (1978, P.3937, UNIT 41).
E34 -	45	S	0.03	N	Y	ST				--			MAY BE NONTECTONIC.

SITE:PALLET CREEK, CALIF., USA

SOURCE:22,29 FAULT:SAN ANDREAS

EXPOSURE NO:E35 DESIGNATION:EXP 10A

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	Y	Y?	U	U	0.03	U	ONLY PART OF EXPOSURE WAS MAPPED. SEE EXP E34 FOR FULL WIDTH OF ZONE.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E35 -	2	S	0.11	N	Y?	SD		0.13 N SD DISPL FROM SIEH (1978, P. 3923, UNIT 78).
E35 -	2		0.07	N				0.17 B SD
E35 -	2		0.09	N				0.10 D ST
E35 -	3	S	0.02	N	Y	ST	--	SEEMS TO END DOWNWARD AT SAND LAYER.
E35 -	6	P	CA 2.00	E	U	Y ST	CA 0.2	CA 0.20 N ST DISPL FROM SIEH (1984, P. 7660).

SITE:PALLET CREEK, CALIF., USA

SOURCE:22,29 FAULT:SAN ANDREAS

EXPOSURE NO:E36 DESIGNATION:EXP 11

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
GO?	U	Y	Y	Y?	U	1.1	10.3	STR 28 INCLUDED IN PRIN ZONE FOLLOWING SIEH (1978, P. 3922).

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E36 -	1	S	0.36	N	N	*I		0.20 D SD
E36 -	1		0.36	N				0.14 D SD
E36 -	2	S	0.03	Y	S			--
E36 -	3	S	0.05	N	Y	SD		--
E36 -	6	S	0.03	N	Y	SD		--
E36 -	7	S	0.01	N	Y	SD		--
E36 -	8	S	0.11	N	N	*V		--
E36 -	10	S	0.05	N	U			--
E36 -	11	S	0.09	N	N?	*L		--
E36 -	12	S	0.06	N	U			--
E36 -	15	S	0.03	N	N?	*K		--
E36 -	16	S	0.04	N	Y	SD		--
E36 -	22	S	CA 0.06	N	Y	ST		ENDS DOWNWARD AT SAND LAYER.
E36 -	25	S	U		Y	SD		--
E36 -	28	P	0.40	V	U	N *W		0.23 D ST VERTICAL SEPARATION FROM SIEH (1978, P. 3922).
E36 -	29	S	0.03	N	Y	SD		0.20 N SD
E36 -	30	S	0.05	N	Y	SD		--
E36 -	31	S	0.02	N	Y	ST		--
E36 -	32	S	U		Y	SD		--
E36 -	33	S	0.02	V	Y	SD		0.15 D SD
E36 -	34	S	0.06	V	Y	ST		--
E36 -	35	S	0.01	V	Y	SD		--
E36 -	36	S	0.02	V	Y	SD		--

E36 - 37 P	CA 2.00	E	N	*U	Y	ST	CA 0.30	CA 0.30	N	ST	DISPL FROM SIEH (1984, P. 7660).
E36 - 38 S	U			N		SD					
E36 - 39 S		0.04	N	Y		ST					
E36 - 40 S	GT	0.06	V	Y		SD					
E36 - 41 S		0.05	V	Y		ST		0.10	N	SD	
E36 - 42 S		0.06	V	U							
E36 - 43 S		0.08	V	N		*A		0.20	N	SD	
E36 - 44 S		0.02	N	Y		SD					
E36 - 54 S		0.12	V	Y		SD		0.06	N	SD	
E36 - 55 S		0.06	N	N		*A		0.09	N	SD	
E36 - 56 S		0.01	R	N		*A					
E36 - 57 S		0.03	N	N		*A					
E36 - 58 S		0.06	V	Y		ST?					
E36 - 59 S		0.06	N	Y		UV					
E36 - 60 S		0.03	V	N		*H					
E36 - 61 S		0.03	N	Y		SD					DISPL FROM SIEH (1978, P. 3925).

SITE:PALLET CREEK, CALIF., USA

SOURCE:22,29 FAULT:SAN ANDREAS

EXPOSURE NO:E37 DESIGNATION:EXP 11B

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	Y	U	U		1.20	U	DOESN'T COVER WHOLE FLT ZONE. STRS 4 & 14 INCLUDED IN P (SIEH, 1978).

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
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					? MTL	? MTL	DEPTH	LENGTH	LN	MTL
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E37 - 1 S		0.02	N	Y	ST			0.08	N	SD
E37 - 2 S		0.04	V	Y	CL			0.09	D	ST
E37 - 2		0.04	V					0.12	D	SD
E37 - 3 S	CA	0.03	V	U				0.14	D	SD
E37 - 4 P	CA 2.00	E	N	*A	N	*W				DISPL FROM SIEH (1984, P. 7660).
E37 - 5 S		0.02	V	N?	ST					
E37 - 6 S		0.15	V	Y	SD					
E37 - 9 S		0.08	R	Y	SD					
E37 - 10 S		0.12	N	Y	ST					
E37 - 11 S		0.03	N	Y	SD					
E37 - 12 S		0.05	N	Y	CL					
E37 - 13 S	U			Y	PT					
E37 - 14 P		0.15	N	Y	SD			0.16	N	SD
E37 - 14		0.15	N					0.14	N	SD
E37 - 14		0.15	N					0.38	N	ST
E37 - 14		0.15	N					0.34	N	SD
E37 - 17 S		0.03	N					0.07	D	SD

SITE:FREMONT VALLEY, CALIF., USA

SOURCE:23

FAULT:GARLOCK FAULT ZONE

EXPOSURE NO:E38 DESIGNATION:TR NE OF KOEHN LAKE

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
BR	U	U	U	U	U	10.2	13.5	LEFT SLIP FLT. FLT ZONE WIDENS UPWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E38 - 1	S		0.07	N	Y	UB	--	
E38 - 2	S		0.33	N	Y	UB	--	
E38 - 3	S		0.03	R	Y	GV	--	
E38 - 4	S		0.02	N	Y	CL	--	
E38 - 5	S		0.08	N	U		--	
E38 - 6	S		0.03	N	U		--	
E38 - 7	S		0.02	R	Y	SD	--	
E38 - 8	S		0.04	N	Y	SD	--	
E38 - 9	S		0.01	N	Y	GV	--	
E38 - 10	S		0.05	N	U		--	
E38 - 11	P	GT	2.80	N?	N	*W	--	LS DISPL CA 80 M AT GRAVEL BAR CA 800 M FROM TRENCH.
E38 - 13	S		0.07	R	U		--	
E38 - 14	S		0.02	N	Y	CL	--	
E38 - 15	S		0.07	N	Y	CL	--	
E38 - 16	S	U		Y	GV		--	
E38 - 17	S		0.02	R	U		--	
E38 - 18	S		0.05	N	Y	GV	--	
E38 - 19	S		0.03	N	U		--	
E38 - 20	S		0.01	N	Y	SD	--	
E38 - 21	S		0.04	N	Y	SD	--	
E38 - 22	S		0.02	N	Y	SD	--	
E38 - 23	S		0.04	N	Y	GV	--	
E38 - 24	S		0.07	N	N	UB	--	
E38 - 25	S	U		Y	GV		--	
E38 - 26	S		0.14	R	U		--	0.76 D CL
E38 - 27	S		0.03	R	Y	CL	--	
E38 - 28	S		0.02	R	Y	CL	--	
E38 - 32	P	U		N	UB		--	1.36 D CL
E38 - 33	P?	GE	0.90	V	U		--	
E38 - 35	S		0.06	R	Y	CL	--	
E38 - 36	S		0.11	R	U		--	0.36 D CL
E38 - 37	S		0.16	R	Y	UB	--	
E38 - 38	S		0.10	R	U		--	0.18 D SD
E38 - 39	S		0.11	N	U		--	
E38 - 40	S		0.19	N	U		--	
E38 - 41	S		0.19	N	U		--	
E38 - 42	S		0.04	R	U		--	
E38 - 43	P?		1.00	R	N	CL	--	
E38 - 45	S		0.01	R	Y	CL	--	
E38 - 46	S		0.01	R	Y	CL	--	
E38 - 47	S		0.13	R	U		--	
E38 - 48	S		0.03	R	U		--	
E38 - 49	S		0.03	V	U		--	
E38 - 50	S		0.05	N	U		--	
E38 - 51	S		0.03	R	U		--	
E38 - 52	S		0.02	N	U		--	
E38 - 53	S		0.02	N	Y	GV	--	
E38 - 54	S		0.02	R	Y	SD	--	
E38 - 55	S	GE	0.30	V	U		--	0.51 D CL
E38 - 55	S	GE	0.30	V	U		--	1.36 D CL
E38 - 56	S		0.18	R	U		--	
E38 - 57	S		0.04	N	U		--	0.08 D SD

SITE:TOTTORI, JAPAN

SOURCE:24

FAULT:SHIKANO

EXPOSURE NO:E39 DESIGNATION:HORAKUJI TRENCH A

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U		Y	U	Y	Y	U	1.00	U	SFC DISPL NEAR TRENCH WAS 1.5 M RS AND 0.4-0.8 M V IN 1943.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS		REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN MTL
E39 -	1	P	CA	0.35	V	N	CV	--	HALF THE DISPL ON PRIN FLT ASSUMED FOR EACH PRIN STR.
E39 -	2	S		0.09	V	Y	CV	--	
E39 -	3	S	U			Y	SD	--	
E39 -	4	S		0.30?	V	Y	CV	--	
E39 -	5	S	U			Y	SD	--	
E39 -	6	P	CA	0.35	V	N	CV	0.18 N	GV HALF THE DISPL ON PRIN FLT ASSUMED FOR EACH PRIN STR.

SITE:TOTTORI, JAPAN					SOURCE:24		FAULT:SHIKANO		
EXPOSURE NO:E40					DESIGNATION:HORAKUJI TRENCH B			AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI	

GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U		U	U	N		U	U	1.1	SFC DISPL NEAR TRENCH WAS 1.5 M RS AND 0.4-0.8 M V IN 1943.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS		REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN MTL
E40 -	1	S	U		Y	CV		--	
E40 -	2	P	CA	1.00	V	N	ST	0.40	D SD
E40 -	3	S	U		Y	US		--	

SITE:PORTOLA VALLEY, CALIF., USA					SOURCE:25		FAULT:SAN ANDREAS		
EXPOSURE NO:E41					DESIGNATION:TRENCH A			AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI	

GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
SL		Y	U	N		Y	0.15	6.60	ABOUT 0.6 M OF STRIKE SLIP AT THE SURFACE IN 1906.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS		REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN MTL
E41 -	1	S	U		Y	CL		--	
E41 -	2	S	U		Y	CL		--	
E41 -	3	S	U		Y	CL		--	
E41 -	4	S	U		N	CL		--	
E41 -	5	P	CA	0.60	E	N	CL		N CL
E41 -	6	S	U		Y	CL		--	
E41 -	7	S	U		Y	CL		--	
E41 -	8	S	U		Y	CL		--	
E41 -	9	S	U		Y	CL		--	

SITE:PORTOLA VALLEY, CALIF., USA SOURCE:25 FAULT:SAN ANDREAS
EXPOSURE NO:E42 DESIGNATION:TRENCH E AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI?

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	N		U	U	U	PROBABLE SFC FLTG, 1906; ONLY PAPER-THIN CRACKS FOUND IN TRENCH.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E42	-	1	P	U	E	U		2.80 N UF

SITE:PORTOLA VALLEY, CALIF., USA SOURCE:25 FAULT:SAN ANDREAS
EXPOSURE NO:E43 DESIGNATION:TRENCH F AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
SL	U	U	N		U	0.70	2.40	PROBABLE SURFACE FAULTING IN 1906.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E43	-	1	S	U		U		--
E43	-	2	P	U	E	N *D		--
E43	-	3	S	U		U		--
E43	-	4	P	U	E	N MS		--
E43	-	5	S	U		N MS		--
E43	-	6	S	U		U		--
E43	-	7	S	U		N MS		--

SITE:DOGTOWN, CALIF., USA SOURCE:26 FAULT:SAN ANDREAS
EXPOSURE NO:E44 DESIGNATION:EXP 1NW81 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	Y	U	0.18	0.90	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P.21);AVG IS 4.3 M RS.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E44	-	1	S			0.90 N	U	--

E44 - 2 S 0.20 R N CL --
 E44 - 3 P 4.3 E N *I Y US 0.10 0.10 N US

SITE:DOGTOWN, CALIF., USA SOURCE:26 FAULT:SAN ANDREAS

EXPOSURE NO:E45 DESIGNATION:EXP 1SE79 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	0.30	U	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P.21);AVG IS 4.3 M RS.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E45 -	1 P		4.3	E	N	GV	Y ST	0.70 0.7 N UB
E45 -	3 S		0.02	R	U			--

SITE:DOGTOWN, CALIF., USA SOURCE:26 FAULT:SAN ANDREAS

EXPOSURE NO:E46 DESIGNATION:EXP 2NW79 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	I	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	Y	U	U	U	0.40	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P. 21); AVG IS 4.3 M RS.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E46 -	1 P	CA	4.30	E	N	*I	Y US	0.51 0.51 N US US DEVELOPED ON GV.
E46 -	2 S		0.20	V	Y	CV		0.19 D ST
E46 -	3 S		0.17	V	Y	ST		--

SITE:DOGTOWN, CALIF., USA SOURCE:26 FAULT:SAN ANDREAS

EXPOSURE NO:E47 DESIGNATION:EXP 2SE79 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	Y	U	U	U	0.60	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P. 21);AVG IS 4.3 M RS.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E47 -	1 P	CA	4.30	E	N	GV	Y US	0.47 0.47 N US
E47 -	2 S	U			U			--

E47 - 3 S 0.20 V U --
 E47 - 4 S 0.16 V Y ST --

SITE:DOGTOWN, CALIF., USA				SOURCE:26				FAULT:SAN ANDREAS			
EXPOSURE NO:E48				DESIGNATION:EXP 3NW79				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI			
GOUGE ETC				F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U				Y	U	Y	U	U	U	1.50	4.1-4.6 M RS AT SEC IN 1906 (SOURCE 26, P. 21); AVG IS 4.3 M RS.
STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS		REMARKS
					? MTL		? MTL	DEPTH	LENGTH	LN	MTL
E48 -	1 S	GE	0.80	V	N	CL			--		
E48 -	2 S	CE	0.09	V	Y	ST			--		
E48 -	3 P	CA	4.30	E	N	*I	Y	US	0.35	N	US DEVELOPED ON GV.
E48 -	4 S	U			Y	GV			--		

SITE:DOGTOWN, CALIF., USA				SOURCE:26				FAULT:SAN ANDREAS			
EXPOSURE NO:E49				DESIGNATION:EXP 4NW79				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI			
GOUGE ETC				F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U				Y	U	Y	U	U	LT	0.02 U	4.1-4.6 M RS AT SEC IN 1906 (SOURCE 26, P.21); AVG IS 4.3 M RS.
STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS		REMARKS
					? MTL		? MTL	DEPTH	LENGTH	LN	MTL
E49 -	1 P	CA	4.30	E	N	CL	Y	US	0.62	N	US DEVELOPED ON GV.

SITE:DOGTOWN, CALIF., USA				SOURCE:26				FAULT:SAN ANDREAS			
EXPOSURE NO:E50				DESIGNATION:EXP 4SE79				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI			
GOUGE ETC				F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U				Y	U	Y	U	U	U	0.30	4.1-4.6 M RS AT SEC IN 1906 (SOURCE 26, P.21); AVG IS 4.3 M RS.
STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS		REMARKS
					? MTL		? MTL	DEPTH	LENGTH	LN	MTL
E50 -	1 P	CA	4.30	E	N	*I	Y	GV	0.98	N	GV ZONE WIDENS DOWNWARD.
E50 -	2 S	GE	0.46	R	N	*K			--		

SITE:DOGTOWN, CALIF., USA SOURCE:26 FAULT:SAN ANDREAS
EXPOSURE NO:E51 DESIGNATION:EXP 5NW79 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUCE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U		U	U	Y	U	U	LT	0.02 U	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P.21); AVG IS 4.3 M RS.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E51 -	1	P	CA 4.30	E	Y	GV	Y US	0.28 0.43 B US
E51 -	1		CA 4.30	E				0.80 B GV

SITE:DOGTOWN, CALIF., USA SOURCE:26 FAULT:SAN ANDREAS
EXPOSURE NO:E52 DESIGNATION:EXP 6NW79 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUCE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U		U	U	Y	U	U	LT	0.02 U	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P.21); AVG IS 4.3 M RS.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E52 -	1	P	CA 4.30	E	N	GV	Y? ST	0.84 0.84 B *N

SITE:DOGTOWN, CALIF., USA SOURCE:26 FAULT:SAN ANDREAS
EXPOSURE NO:E53 DESIGNATION:EXP 7NW81 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUCE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U		U	U	Y	U	U	LT	0.02 U	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P. 21); AVG IS 4.3 M RS.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E53 -	1	P	CA 4.30	E	N	*I	N? US	0.70 D US

SITE:DOGTOWN, CALIF., USA SOURCE:26 FAULT:SAN ANDREAS

EXPOSURE NO:E54 DESIGNATION:EXP 8NW81

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	U	0.30	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P. 21); AVG IS 4.3 M RS.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E54 -	1	S	GE 0.10	V	U		--	
E54 -	2	P	CA 4.30	E	N *I	N? US	0.50	D US US DEVELOPED ON GV.

SITE:DOGTOWN, CALIF., USA

SOURCE:26

FAULT:SAN ANDREAS

EXPOSURE NO:E55 DESIGNATION:EXP 9SE79

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
SK	U	U	Y	U	U	U	0.40	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P. 21); AVG IS 4.3 M RS.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E55 -	1	S?	GE 0.20	R	U		--	
E55 -	2	P	CA 4.30	E	N GV	Y US	0.60	0.90 B US US DEVELOPED ON GV.

SITE:DOGTOWN, CALIF., USA

SOURCE:26

FAULT:SAN ANDREAS

EXPOSURE NO:E56 DESIGNATION:EXP 9SE81

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	0.41	1.10	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P. 21); AVG IS 4.3 M RS.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E56 -	5	P	4.3	E	N *H	Y US	0.10	0.30 B US

SITE:DOGTOWN, CALIF., USA

SOURCE:26

FAULT:SAN ANDREAS

EXPOSURE NO:E57 DESIGNATION:EXP 10SE81

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	
U		U	U	Y	U	U	0.20	U	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P. 21); AVG IS 4.3 M RS.	
STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP			OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH		LENGTH LN MTL	
E57 -	1 P	4.3	E	N	CL	Y US	0.40	0.50	B	US
SITE:DOGTOWN, CALIF., USA SOURCE:26 FAULT:SAN ANDREAS										
EXPOSURE NO:E58				DESIGNATION:EXP 11SE81				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI		
GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	
U		U	U	Y	U	U	0.17	1.60	4.1-4.6 M RS AT SFC IN 1906 (SOURCE 26, P. 21); AVG IS 4.3 M RS.	
STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP			OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH		LENGTH LN MTL	
E58 -	1 S? U				N CL			--		
E58 -	2 P	4.3	E	N	*K	Y GV	0.40	0.40	N	GV
SITE:EL TAMBOR, GUATEMALA SOURCE:36 FAULT:MOTAGUA										
EXPOSURE NO:E59				DESIGNATION:MET-1				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI		
GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	
U		N	U	Y	Y	U	0.80	4.57		
STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP			OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH		LENGTH LN MTL	
E59 -	1 P	CA 0.85	E	N	*H	N *M		--		DISPL FROM BUCKNAM AND OTHERS, 1978.
E59 -	2 S	U		U				--		
E59 -	3 S	GE 0.30	V	N	SD			--		
E59 -	4 S	GE 1.50	V	N	*H			--		
SITE:EL TAMBOR, GUATEMALA SOURCE:36 FAULT:MOTAGUA										
EXPOSURE NO:E60				DESIGNATION:MET-6				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI		
GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	

U U U Y Y U 0.24 2.77

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE	SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL	
E60 -	1	P	U		N *H				
E60 -	1		CA 0.85	E		Y ST	GT 0.28	GT 0.28 N ST	DISPL FROM BUCKNAM AND OTHERS, 1978.
E60 -	2	S?	U		N *H		--		

SITE:LA TINTA, GUATEMALA SOURCE:36 FAULT:POLOCHIC
EXPOSURE NO:E61 DESIGNATION:LT-1 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	N	N	U	U	24.80	POSSIBLE 18TH CENTURY EVENT.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE	SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL	
E61 -	1	P	U		N *L	Y? US	0.08	0.08 N US	LAST EVENT LE210+/-55 YBP FROM C14.
E61 -	2	S		0.07 N	Y RK		--		INTENSELY WEATHERED STRUCTURELESS LIMESTONE.
E61 -	3	S	U		Y US		--		
E61 -	4	S	U		N *D		--		
E61 -	5	S	U		N *F		--		

SITE:MANZANAR, CALIF., USA SOURCE:37 FAULT:OWENS VALLEY
EXPOSURE NO:E62 DESIGNATION:NORTH TRENCH AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	N?	U	N	N	U	LT 0.02	LT 0.02	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE	SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL	
E62 -	1	P	CA 3.50	E	N *H	Y US	0.28	0.28 N US	STRIKE SLIP FROM 2 STREAM OFFSETS LESS THAN 36 M AWAY.
E62 -	1		CA 3.50	E				0.26 D SD	

SITE:NEAR JERICHO, ISRAEL SOURCE:38 FAULT:JERICHO
EXPOSURE NO:E63 DESIGNATION:TRENCH 3 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
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U Y U N N U U 12.50 VERTICAL SEPARATION 3.5 M ACROSS WHOLE ZONE.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

E63 -	1	S	0.05	V	Y	CL		
E63 -	2	S	0.25	R	N	ST		
E63 -	3	P	GE 1.67	V	N	*V		
E63 -	4	P	U		N	CL		
E63 -	6	S	U		N	CL		

MAY BE NONTECTONIC.

SITE:FREMONT, CALIF., U.S.A. SOURCE:48 FAULT:HAYWARD

EXPOSURE NO:E64 DESIGNATION:TRENCH 1 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC F LI PB PR WB WIDTH P WIDTH P+S REMARKS

U Y N U U U GE 9.60 TECTONIC CREEP 4.7 MM/YR NEAR HERE (SCHULZ AND OTHERS,1982).

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

E64 -	1	S	U		N	*K		
E64 -	2	S	U		N	CL		
E64 -	3	S	U		N	CL		
E64 -	4	S	0.03	V	N	CL		
E64 -	5	S	0.06	V	N	CL		
E64 -	6	S	U		N	CL		
E64 -	7	S	U		N	CL		
E64 -	8	S	U		N	CL		
E64 -	9	P	GT 0.47	E		Y CL	0.97	0.97 N CL ASSUMED AT LEAST 100 YRS AT PRESENT CREEP RATE.
E64 -	9	U			N	*K		
E64 -	10	S	U		U			
E64 -	11	S	0.03	V	N	CL		
E64 -	12	S	0.03	V	N	CL		
E64 -	13	S	0.02	V	N	CL	0.03	N CL
E64 -	14	S	0.02	V	N	CL	1.48	D CL
E64 -	15	S	U		N	CL		
E64 -	16	S	0.13	V	N	CL		

SITE:FREMONT, CALIF., U.S.A. SOURCE:48 FAULT:HAYWARD

EXPOSURE NO:E65 DESIGNATION:TRENCH 3 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC F LI PB PR WB WIDTH P WIDTH P+S REMARKS

GO? Y U Y Y? U 3.00 TECTONIC CREEP 4.7 MM/YR NEAR SITE (SCHULZ AND OTHERS,1982).

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
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						? MTL	? MTL	DEPTH	LENGTH	LN	MTL	
E65 -	1	S?	GT	0.70	V	N	*K		--			
E65 -	2	S	U			N	CL		--			
E65 -	3	S	U			U			--			
E65 -	4	P	GE	0.47	E			Y CL	0.22	0.40	B	CL ASSUMED AT LEAST 100 YRS AT PRESENT CREEP RATE.
E65 -	4		U			N	*I		--			
E65 -	5	S		0.15	V	N	CL		--			
E65 -	6	S		0.01	V	N	CL		--			
E65 -	7	S		0.02	V	N	CL		--			
E65 -	8	S		0.01	V	N	CL		--			
E65 -	9	S	U			N	CL		--			

SITE:FREMONT, CALIF., U.S.A.

SOURCE:48

FAULT:HAYWARD

EXPOSURE NO:E66 DESIGNATION:TRENCH 4

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y					1.50	U	TECTONIC CREEP 4.7 MM/YR NEAR SITE (SCHULZ AND OTHERS, 1982).

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E66 -	1	P	GE	0.47	E		N CL	0.20 D CL ASSUMED AT LEAST 100 YRS AT PRESENT CREEP RATE.
E66 -	1		U			N	*K	--
E66 -	2	S	U			N	CL	--

SITE:NEAR OCOTILLO WELLS, CALIF., U.S.A.

SOURCE:49,50

FAULT:COYOTE CREEK

EXPOSURE NO:E67 DESIGNATION:TRANSVERSE TRENCH 2, SE WALL

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
BR MX RU	Y	Y?	Y	N?	N	U	15.80	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E67 -	1	S		0.07	V	U		0.68 D SD
E67 -	2	S	U			N	SD	0.31 D SD
E67 -	3	S		0.35	R	N	SD	--
E67 -	4	S	CA	0.09	R	U		0.58 N ST
E67 -	5	S	U			U		--
E67 -	6	P	CA	0.10?	E		N UB	--
E67 -	6		CA	4.00	E	N	*H	--
E67 -	7	S		0.02	V	N	SD	--
E67 -	8	S		0.01	V	N	SD	--
E67 -	9	S		0.26	R	N	SD	--
E67 -	10	S	CA	3.50	E	N	*U	--

INTERPOLATED FROM 1968 DISPL WITHIN 2 KM OF SITE.

SITE:NEAR OCOTILLO WELLS, CALIF., U.S.A. SOURCE:49,50 FAULT:COYOTE CREEK

EXPOSURE NO:E68 DESIGNATION:TRANSVERSE TRENCH 2, NW WALL AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

COUGE ETC F LI FB PR WB WIDTH P WIDTH P+S REMARKS

U Y Y? Y N N U 15.8

STR NO CT DISPL TP DIEOUT DN DIEOUT UP OBSCURE SEGMENTS REMARKS

? MTL ? MTL DEPTH LENGTH LN MTL

E68 - 2 S CA 0.10? E Y? SD 0.25 0.25 N SD MAY ONCE HAVE BEEN PRINCIPAL STRAND.
 E68 - 2 CA 3.50 E N *H
 E68 - 3 S 0.47 V N SD
 E68 - 4 S 0.05 V Y SD
 E68 - 5 S 0.02 V N SD
 E68 - 6 S 1.03 V Y SD
 E68 - 7 S 0.05 V Y SD
 E68 - 8 S 0.07 V Y SD
 E68 - 9 P CA 0.10? E N SD AMOUNT OF 1968 DISPL INTERPOLATED FROM POINTS LT 2 KM AWAY.
 E68 - 9 CA 4.00 E N SD
 E68 - 10 S 0.03 V Y SD
 E68 - 11 S 0.30 V N *I
 E68 - 12 S 0.08 V Y ST
 E68 - 13 S 0.07 R Y ST
 E68 - 14 S 0.09 V N ST
 E68 - 15 S 0.06 V N ST

SITE:NEAR OCOTILLO WELLS, CALIF., U.S.A. SOURCE:49,50 FAULT:COYOTE CREEK

EXPOSURE NO:E69 DESIGNATION:TRANSVERSE TRENCH 3, SE WALL AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

COUGE ETC F LI PB PR WB WIDTH P WIDTH P+S REMARKS

RU Y Y? U N U 14.60

STR NO CT DISPL TP DIEOUT DN DIEOUT UP OBSCURE SEGMENTS REMARKS

? MTL ? MTL DEPTH LENGTH LN MTL

E69 - 1 S 0.25 N N SD
 E69 - 2 S 0.13 V N *H
 E69 - 3 S CA 0.02 P Y ST
 E69 - 4 S CA 0.04 R Y ST
 E69 - 5 P CA 0.10? E Y SD 0.39 0.39 N SD AMOUNT OF 1968 DISPL INTERPOLATED FROM POINTS LT 2 KM AWAY.
 E69 - 5 CA 4.00 E N *H
 E69 - 6 S U N SD
 E69 - 7 S U N SD
 E69 - 8 S 0.11 R N SD
 E69 - 9 S U N SD
 E69 - 10 S 0.21 R N SD
 E69 - 11 P CA 0.10? E Y SD 0.20 0.20 N SD AMOUNT OF 1968 DISPL INTERPOLATED FROM POINTS LT 2 KM AWAY.
 E69 - 11 LE 3.50 E N SD

SITE:NEAR ATAMI, SHIZUOKA, JAPAN

SOURCE:51

FAULT:TANNA

EXPOSURE NO:E70 DESIGNATION:EXPOSURE AN

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y		Y	U	CA	0.01	2.70	1930 FRACTURE ZONE 7.5 M WIDE HERE.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E70 -	1	S	U		N	UV		--
E70 -	2	S	U		U			--
E70 -	3	S	U		U			--
E70 -	4	P	1.6 E			N US		--
E70 -	4		CA 4.8 ? E				0.34 B ST	SURFACE RUPTURE IN 1930.
E70 -	4		CA14. ? E		N	*R		SLIP IN 2 PRIOR EVENTS ASSUMED SAME AS IN 1930.
E70 -	5	S	U		Y	ST		SLIP IN 8 PRIOR EVENTS ASSUMED SAME AS IN 1930.

SITE:NEAR ATAMI, SHIZUOKA, JAPAN

SOURCE:51,52 FAULT:TANNA

EXPOSURE NO:E71 DESIGNATION:EXPOSURE AS

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U			Y	U	CA	0.03	1.30	1930 FRACTURE ZONE 4.5 M WIDE HERE.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
E71 -	1	P	CA 0.45 E			Y US	1.70	1.70 N ST DISPL INTERPOLATED FROM FIG. 2 IN IHARA & ISHII (1932).
E71 -	1		CA 1.4 ? E				0.39 B ST	SLIP IN 2 PRIOR EVENTS ASSUMED SAME AS IN 1930.
E71 -	1		CA 4.00 ? E		N	*R	--	SLIP IN 8 PRIOR EVENTS ASSUMED SAME AS IN 1930.
E71 -	2	S	U		U		--	
E71 -	3	S	0.08 V?	Y	ST		--	

SITE:NEAR ATAMI, SHIZUOKA, JAPAN

SOURCE:51

FAULT:TANNA

EXPOSURE NO:E72 DESIGNATION:EXPOSURE MN

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y			U	U	U		

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
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		?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL
E72	- 1 P U		N UV				--		
E72	- 1	0.50	E		Y SD	1.10	1.10	N	UV SURFACE RUPTURE IN 1930.

SITE:ARCO, IDAHO, USA

SOURCE:1,54 FAULT:ARCO

EXPOSURE NO:N1 DESIGNATION:SITE A-2

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:PL

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
RU BR	U	U	Y	Y	U	U	5.20	THE BEDS BETWEEN STRANDS 1 & 2 HAVE BEEN ROTATED BY DRAG

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
		?	MTL	?	MTL	DEPTH	LENGTH	LN MTL
N1	- 1	S	0.60	V	N	GV	--	
N1	- 2	P	GT 5.30	V		N *H	--	CONSISTS OF 2 PARALLEL STRANDS AND 1 BRANCHING STRAND
N1	- 2		GE11.40	V	N	*H	--	

SITE:HOWE, IDAHO, USA

SOURCE:1,54 FAULT:HOWE

EXPOSURE NO:N2 DESIGNATION:SITE H-4

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:PL

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
RU	U	U	Y	U	U	U	23.20	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
		?	MTL	?	MTL	DEPTH	LENGTH	LN MTL
N2	- 1	S	0.90	N	N	GV	--	
N2	- 2	S	1.20	N	N	GV	--	
N2	- 3	S	0.30	N	N	GV	--	
N2	- 4	S	U		N	GV	--	
N2	- 5	S	1.20	V	N	GV	--	
N2	- 6	P	GT 3.00	N	N	*H	--	N *H
N2	- 10	S	0.40	V	U		--	
N2	- 7	S	U		N	GV	--	
N2	- 8	S	U		N	GV	--	
N2	- 9	S	2.40	N	N	GV	--	

SITE:MANAGUA, NICARAGUA

SOURCE:2 FAULT:SAN JUDAS

EXPOSURE NO:N3 DESIGNATION:SOUTHWEST NO.1A,1B,1C

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
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U		Y U U U U U					CA 217.00	WIDTH OF ZONE INCLUDES TRACES IN COLINEAR TRENCHES SOUTHWEST 1A,1B,1C.			
STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS			REMARKS	
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL	
N3	-	1	P		1.05	N	N CG	--			
N3	-	2	S		0.30	N	N CG	1.90	D	CG	
N3	-	3	S	CA	0.32?	R	Y CG	--			
N3	-	4	S		0.30	R	Y CG	--			
N3	-	5	S		0.15	N	Y CG	--			
N3	-	6	S		0.16	N	Y CG	--			
N3	-	7	S	U			Y CG	--			
N3	-	8	S		0.08	N	Y CG	--			
N3	-	9	S		0.50	N	Y CG	--			
N3	-	11	S		0.80	R	N CG	--			
N3	-	12	S		0.03	N	N CG	--			
N3	-	13	S	CA	0.30	V	Y CG	--			
N3	-	14	S		0.12	N	Y CG	--			
N3	-	15	S	U			Y CG	--			
N3	-	16	S	U			Y? CG	--			
N3	-	17	S		0.23	N	N CG	--			
N3	-	18	S		0.09	N	N CG	--			
N3	-	19	S		0.08	N	N CG	--			
N3	-	20	S		0.70	V	N CG	--			
N3	-	21	S		0.06	V	Y? US?	--			
N3	-	59	S		0.03	V	U	--			
N3	-	22	S		0.04	N	N US?	--			
N3	-	23	S		0.08	V	N US?	--			
N3	-	24	S	U			N US?	--			
N3	-	25	S	CA	0.03	V	N *T	--			
N3	-	26	S		0.04	V	N VR	--			
N3	-	27	S		0.04	V	Y? VR	--			
N3	-	28	S		0.03	V	N VR	--			
N3	-	29	S		0.05	V	N VR	--			
N3	-	30	S		0.36	V	N VR	--			
N3	-	31	S		0.21	V	Y US?	--			
N3	-	32	S		0.15	V	Y US?	--			
N3	-	33	S		0.15	V	N VR	--			
N3	-	34	S		0.10	V	N VR	--			
N3	-	35	S		0.15	V	N US?	--			
N3	-	36	S		0.10?	V	N US	--			
N3	-	37	S		0.10?	V	N US	--			
N3	-	38	S		0.10	V	N VR?	2.10	D	VR	
N3	-	39	S		0.40	N	N VR?	--			
N3	-	40	S		0.10	V	Y VR	--			
N3	-	41	S		0.50	V	N? *R	0.6	D	VO	
N3	-	42	S		0.13	N	Y? VR	--			
N3	-	43	S	CA	0.86	N	Y VR	--			
N3	-	44	S		0.20	N	Y VR	0.16	D	VO	
N3	-	45	S		0.10?	N	Y VR	--			
N3	-	46	S	U			Y VR	--			
N3	-	47	S		0.15	N	Y VR	--			
N3	-	48	S		0.10	N	Y VR	0.70	D	VO	
N3	-	49	S		0.60	N	N *T	--			
N3	-	50	S		0.50	N	N US?	--			
N3	-	51	S?	U			N VO	--			
N3	-	52	S	CA	0.20	N		0.50	D	US	
N3	-	52			0.38	N	N VO	0.50	D	US	
N3	-	53	S	CA	0.20	V		0.10	D	US	
N3	-	53	S		0.29	N	N VO	--			
N3	-	54	S		0.03	N	Y VO	--			
N3	-	55	S?	U			N GV	--			

N3	-	56	S	U			N	VO	--
N3	-	57	S		0.10	V	Y	US	--
N3	-	58	S		0.08	V	N	US	--

SITE:MANAGUA, NICARAGUA		SOURCE:2	FAULT:B-1
EXPOSURE NO:N4	DESIGNATION:SOUTHWEST NO.2	AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO	

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	U	42.7	WIDTH GIVEN IS OF ZONE LABELED "FAULT ZONE" ON THE LOG.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
N4	-	1	S		0.04	V	N	GV
N4	-	2	S		0.01	V	N	GV
N4	-	3	S		0.02	V	N	GV
N4	-	4	S		0.07	N	Y	SD?

SITE:MANAGUA, NICARAGUA		SOURCE:2	FAULT:FAULT ZONE I
EXPOSURE NO:N5	DESIGNATION:SOUTHEAST NO.6	AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO	

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	U	U	U	U	5.90	STRS 1 AND 2 APPARENTLY END DOWNWARD AT BEDDING PLANES.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
N5	-	1	S		0.20	N	Y	UV
N5	-	2	S	U			Y	UV
N5	-	3	P		0.10?	R	N	SD

SITE:MANAGUA, NICARAGUA		SOURCE:2	FAULT:FAULT ZONE F
EXPOSURE NO:N6	DESIGNATION:SOUTHEAST NO.2C	AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO	

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	U	U	U	U	5.50	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

N6	-	6	P	0.26	N	N	*D	--
N6	-	7	S	0.10?	N	Y	US	--
N6	-	8	S	0.08	N	U		--
N6	-	9	S	0.04	N	Y	US	--
N6	-	10	S	0.05?	N	Y	US	--
N6	-	11	S	0.05?	R	Y	US?	--
N6	-	12	S	0.02?	R	Y	US?	--
N6	-	13	S	0.10?	N	Y	VR?	--
N6	-	14	S	0.57?	V	N	*D?	--
N6	-	15	S	CA 0.10	N	N	VR?	--

SITE:PLEASANT VALLEY, NEV,USA SOURCE:3 FAULT:PLEASANT VALLEY
EXPOSURE NO:N7 DESIGNATION: [NONE] AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
RU	Y	N	Y	Y?	U	1.7	U	CA 0.5 M V DISPL AT SEC IN 1915. TOTAL V DISPL PROBABLY 6-7 M.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH LN MTL	
N7	-	2	P CA	0.50	V	N *I	--	ZONE DOES NOT WIDEN UPWARD.
N7	-	2	CA	6.50	V	N *I	--	

SITE:KAYSVILLE, UTAH, USA SOURCE:4 FAULT:WASATCH
EXPOSURE NO:N8 DESIGNATION:TRENCH A AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
MX	Y	N	Y	Y	U	0.40	47.50	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH LN MTL	
N8	-	1	S	0.11	N	N UB	--	
N8	-	2	S	0.05	N	U	--	
N8	-	3	S	0.03	N	N UB	--	
N8	-	4	S	0.05	N	U	--	
N8	-	5	S	0.24	N	N UB	--	
N8	-	6	P	GT 5.70	N	N *U	--	
N8	-	6	GT	0.70	N	N *U	--	
N8	-	7	S	CA 0.60	N	N? UC	0.90 D UV	
N8	-	8	S	CA 0.10	N	N UB	0.35 N UV	
N8	-	8	CA	0.10	N	Y US	1.50 D UV	
N8	-	9	S	0.14	N	N UB	--	
N8	-	9	S	0.11	V	N UB	--	
N8	-	12	S	0.10	V	N UB	0.14 D SD	
N8	-	13	S	U		Y SD	--	
N8	-	14	S	0.11	N	N UB	--	

Y	US	CA	0.5	0.5	N	US
Y	US		0.38	0.38	N	US
			--			
			--			
N	US		--			

0.62 D UB

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
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U Y U Y Y U U GT 68.00

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE	SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL	
N9	-	1	S		N	N	GV	--	
N9	-	2	S		N	N	GV	--	DISPL IS AVG OF 2 MEASUREMENTS.
N9	-	3	S		N	N	GV	--	
N9	-	4	S		N	N	GV	--	
N9	-	5	S		N	U		--	
N9	-	6	P	GT	N	N	*J	--	DISPL FROM SOURCE 4, P. 1451.
N9	-	7	S		N	N	SD	--	
N9	-	8	S		N	N	SD	--	
N9	-	9	S	GT	N	N	SD	--	
N9	-	10	S		N	N	UB	--	
N9	-	11	S		N	N	UB	--	
N9	-	12	S		N	N	UB	--	
N9	-	13	S		N	N	UB	--	
N9	-	14	S		N	U		0.30 D	UB
N9	-	15	S		N	U		--	
N9	-	16	S		N	U		0.90 D	UB
N9	-	17	S	U	N	UB		--	
N9	-	18	S	U	N	U		--	
N9	-	19	S		N	U		--	
N9	-	20	S		N	U		--	
N9	-	21	S		N	N	UB	0.30 D	UB
N9	-	22	S		N	N	UB	--	
N9	-	23	S		N	N	UB	--	
N9	-	24	S		N	N	UB	0.60 D	UV
N9	-	25	S		N	N	UB	--	
N9	-	26	S		N	N	UB	0.80 D	UB
N9	-	27	S		N	N	UB	0.50 D	UB
N9	-	28	S		N	N	UB	--	
N9	-	29	S		N	N	UB	--	
N9	-	30	S		N	N	UB	0.60 D	UB
N9	-	31	S	CA	N	N	UB	--	DISPL IS AVG OF 2 MEASUREMENTS.
N9	-	32	S		N	U		--	
N9	-	33	S		N	U		--	
N9	-	34	S		N	U		--	
N9	-	35	S		N	U		--	

SITE:SULPHUR, NEV.,USA

SOURCE:6

FAULT:BLACK ROCK

EXPOSURE NO:N11 DESIGNATION:SITE 1

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
GO SH	Y	N	N	N	U	0.06	14.8	GOUGE 6 CM WIDE (DODGE 1982, P.151).

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE	SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL	
N11	-	1	S	U	N	CL		--	
N11	-	2	S	U	N	CL		--	
N11	-	3	S	U	N	CL		--	
N11	-	4	P	CA	N	N	CL	--	DRAG ON UPTHROWN SIDE (DODGE 1982,P.151).

Time (min)	Concentration (mg/L)	Flow rate (L/min)	Flow rate (L/min)
0.08	N	CL	
0.06	N	CL	
0.06	N	CL	

DISPL MEASURED ON PHOTOGRAPH

FAULT:BLACK ROCK

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

U	Y	U	N	N	U	LT	0.01	21.10	P FLT IS "PAPER THIN." RECONNAISSANCE LOGGING.
---	---	---	---	---	---	----	------	-------	--

N12	-	1	S		0.20	N	Y?	CL
N12	-	2	S		0.10	N	Y?	CL
N12	-	3	S		0.30	N	Y?	CL
N12	-	4	S		0.40	N	N	CL
N12	-	5	S	U			N	CL
N12	-	6	P	GE	4.00	N	N	*I

DRAG ON DOWNTHROWN SIDE.

SITE:SULPHUR, NEV., USA				SOURCE:6				FAULT:BLACK ROCK			
EXPOSURE NO:N13				DESIGNATION:SITE 3				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO			
GOUCE ETC		F		LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	
N		N		U	Y	Y	U	CA	0.04 U	DEFORMATION ZONE (PEBBLE ROTATION BY DRAG) IS 1.5 M WIDE.	

STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS		REMARKS
					?	MTL	?	MTL	DEPTH	LENGTH	LN MTL
N13	-	1 P	CA 2.00	N	N	*H	N	*H	--	DRAG ON DOWNTROWN BLOCK.	

SITE:SULPHUR, NEV., USA				SOURCE:6				FAULT:BLACK ROCK			
EXPOSURE NO:N14				DESIGNATION:SITE 4A				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO			
GOUCE ETC		F		LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	
U		Y		U	N	N	U	U	5.50	GRABEN ON UPTHROWN BLOCK.	

STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS		REMARKS
					?	MTL	?	MTL	DEPTH	LENGTH	LN MTL
N14	-	1 S	0.04	V	N	SD			--		
N14	-	8 S	0.10	N	N	SD			--		
N14	-	9 S	0.04	V	U				--		
N14	-	10 S	0.02	N	N	SD			--		
N14	-	12 S	0.12	N	N	SD			--		
N14	-	14 S	U		N	SD			--		
N14	-	15 S	0.20	N	N	SD			--	DRAG ON DOWNTROWN SIDE (DODGE 1982, FIG. 70).	
N14	-	16 S	0.20	N	N	SD			--		
N14	-	17 S	0.10	N	N	SD			--		
N14	-	19 S	0.08	V	N	SD			--		
N14	-	20 P	CA 2.00	N	N	SD			--	DISPLACEMENT INCLUDES SOME DRAG.	

SITE:SULPHUR, NEV., USA				SOURCE:6				FAULT:BLACK ROCK			
EXPOSURE NO:N15				DESIGNATION:SITE 4B				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO			
GOUCE ETC		F		LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	
N		Y		Y?	N	N	U	CA	0.77	3.90	GRABEN AND DRAG ON UPTHROWN BLOCK.

STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS		REMARKS
					?	MTL	?	MTL	DEPTH	LENGTH	LN MTL

N15 - 1 P U		N *I	--
N15 - 2 P U		N *I	--
N15 - 3 S	0.06 N	N CL	--
N15 - 4 S U		U	--
N15 - 5 S	0.04 N	Y? UC	--
N15 - 6 S U		Y SD	--
N15 - 8 S	0.04 N	N SD	--
N15 - 9 S U		Y SD	--
N15 - 10 S	0.02 V	N SD	--
N15 - 11 S U		N SD	--
N15 - 12 S U		Y UV	--
N15 - 13 S	0.04 N	Y SD	--

SITE:SULPHUR, NEV., USA

SOURCE:6

FAULT:BLACK ROCK

EXPOSURE NO:N16 DESIGNATION:SITE 5

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
N	Y	N	N	N	U	0.06	11.20	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH	LN

N16 - 1 S	CA	0.05	R				0.07	N	SD
N16 - 2 S	CA	0.10	N	N	SD		--		
N16 - 3 S		0.04	N	U			--		
N16 - 4 S	U			N	SD		--		
N16 - 5 S	GT	0.80	N	N	SD		--		
N16 - 6 S		0.10	N	N	*I		--		
N16 - 7 P	GT	4.50	N	N	*I		--		

DRAG ON BOTH UPTHROWN AND DOWNTROWN BLOCKS.
DRAG ON DOWNTROWN BLOCK.

SITE:NEAR SOCORRO, NEW MEXICO, USA

SOURCE:27,39 FAULT:LA JENCIA

EXPOSURE NO:N17 DESIGNATION:TR 1

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
MX	U	U	Y	Y	U	0.51	4.95	REVERSE SLIP ON STRAND 1.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH	LN

N17 - 1 S		0.50	R	N	*H		--	
N17 - 2 S	U			N	*H	N *O	--	
N17 - 3 P		1.4	V			N *H	--	
N17 - 3	LE	1.9	V	N	*H		--	

SITE:NEAR SOCORRO, NEW MEXICO, USA

SOURCE:27,39 FAULT:LA JENCIA

EXPOSURE NO:N18 DESIGNATION:TR 2

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:PL

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
RU	U	U	Y	Y	U	U	11.70	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
N18 -	1	S	0.08	V	N	UC	--	
N18 -	2	S	0.48	V	N	UC	--	
N18 -	3	P	CA 1.4	V	N	*H	--	
N18 -	4	S?	GT 1.45	V	N	*M	--	
N18 -	6	S	0.2	V	N	US	--	DISPLACEMENT FROM SOURCE NO. 27.

SITE:NEAR MAGDALENA, NEW MEXICO, USA SOURCE:27,39 FAULT:LA JENCIA

EXPOSURE NO:N19 DESIGNATION:TR 3

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:PL

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
RU	Y	U	U	U	U	U	2.50	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
N19 -	1	S	CE 0.7	V	N	*H	--	
N19 -	1		0.6	V		N *M	--	
N19 -	2	S	0.11	V	N	SD	--	
N19 -	2		0.1 ?	V		N? *M	--	
N19 -	3	P	CA 3.0 ?	V	N	*M	--	

SITE:NEAR MAGDALENA, NEW MEXICO, USA SOURCE:27,39 FAULT:LA JENCIA

EXPOSURE NO:N20 DESIGNATION:TR 4

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
RU	U	U	Y	Y	U	2.1	3.60	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
N20 -	1	S	GT 0.8	V		N *O	--	
N20 -	1		CA 1.5	V	N	*M	--	
N20 -	2	P	CA 3.0	V	N	*H	--	

SITE:WEST YELLOWSTONE, MONTANA, U.S.A. SOURCE:30,30A FAULT:UNNAMED

EXPOSURE NO:N21 DESIGNATION:TR. AT SCARP F-3

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	U	U	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

N21 -	1	P	0.15	V		Y UB	0.20	GE 0.20 N UB SURFACE RUPTURE IN 1959.
N21 -	1		0.75	V?	N SD		--	
N21 -	2	P	1.50	V?	N *H		--	

SITE:NEAR MONA, UTAH, USA

SOURCE:31

FAULT:WASATCH

EXPOSURE NO:N22 DESIGNATION:TRENCH NC-1

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	N	U	Y	U	U	0.79	U	PEBBLE ROTATION ON OPPOSITE WALL.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

N22 -	1	P	GT11.00	V?	N *H		--	DISPL FROM HANSON AND OTHERS, 1981
N22 -	1		CA 2.50	N		N *M	--	
N22 -	2	S	0.19	R	N UC		--	

SITE:NEAR MONA, UTAH, USA

SOURCE:31

FAULT:WASATCH

EXPOSURE NO:N23 DESIGNATION:TRENCH NC-2

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
RU	N	U	Y	Y	U	0.70	U	LOCUS OF PRINCIPAL TRACE MOVED WESTWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

N23 -	1	P	GT 4.90	N	N *H		--	
N23 -	1		CT 2.30	N		N *M	--	
N23 -	2	P	CA 1.90	N	N *I		--	
N23 -	3	P	CA 2.40	N	N *I		--	

N23 - 3 CA 2.10 N N *M -- SLIP FROM PALINSPASTIC MODEL.
 N23 - 4 S 0.60 N N *I --
 N23 - 4 GT 0.03 N Y US 0.03 0.16 B US ROTATED PEBBLES DEFINE FAULTING IN GRAVEL.

SITE: NEAR MONA, UTAH, USA SOURCE: 31 FAULT: WASATCH
 EXPOSURE NO: N24 DESIGNATION: TRENCH NC-3 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE: HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
--	Y	U	Y	U	U	U	13.60	WIDTH IS BASED ON PROJECTING FAULT DOWNWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH LN MTL	
N24 -	1 P	CA	1.80	N	U		--	ONLY FREE FACE EXPOSED.
N24 -	2 S	CA	0.20	R	N UC?	N *M	--	
N24 -	3 P	GT	3.40	N	U		--	ONLY FREE FACE EXPOSED.
N24 -	4 S		0.36	N	Y? US?	N *M	--	FAULT MAY BE AT BOULDER AND SOIL CONTACT.
N24 -	5 S	LT	0.27	N	N US	Y? US?	0.06? 0.60? N US	

SITE: PACHMA BAJO, PERU SOURCE: 32,55 FAULT: CORDILLERA BLANCA
 EXPOSURE NO: N25 DESIGNATION: TRENCH P-1 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE: HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	N	U	Y	Y	U	U	7.50	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH LN MTL	
N25 -	1 P		1.80	N	N SD		--	
N25 -	2 S		0.39	N	U		--	
N25 -	3 S	CA	0.30	N	N *H		--	
N25 -	4 S		0.14	N	N *H		--	
N25 -	5 P	GT	3.70	N	N *J		--	CORRESPONDS TO MAJOR SCARP INFLECTION.

SITE: PACHMA BAJO, PERU SOURCE: 32,55 FAULT: CORDILLERA BLANCA
 EXPOSURE NO: N26 DESIGNATION: TRENCH P-2 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE: HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	N	U	Y	Y	U	U	6.70	

STR	NO	CT	DISPL	TP	DIEOUT DN DIEOUT UP			OBSCURE SEGMENTS			REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL	
N26	-	1	P		2.40	N		N	*U		--
N26	-	1	CA	5.9	N	N	*U				--

SITE:QUEBRADA QUEROCCOCHA, PERU SOURCE:32,55 FAULT:CORDILLERA BLANCA

EXPOSURE NO:N27 DESIGNATION:TRENCH Q-1 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	Y	U	U	0.91	CA 40.00	

STR	NO	CT	DISPL	TP	DIEOUT DN DIEOUT UP			OBSCURE SEGMENTS			REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL	
N27	-	1	P	CA	1.90	N	N	*K	N	*I	--

SITE:NEAR DELTA, UTAH, USA SOURCE:33,33A FAULT:DRUM MOUNTAINS

EXPOSURE NO:N28 DESIGNATION:3 ADJACENT EXPOSURES AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO?

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
RU	Y	U	Y	U	U	1.60	U	SLIP SINCE 13,500 YR BP PROVO SHORELINE.

STR	NO	CT	DISPL	TP	DIEOUT DN DIEOUT UP			OBSCURE SEGMENTS			REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL	
N28	-	1	P	LE	3.70	V	N	*H	N	*H	--
N28	-	2	S		0.06	V	N	SD			--

SITE:NEAR DRAPER, UTAH, USA SOURCE:34 FAULT:WASATCH

EXPOSURE NO:N29 DESIGNATION:TRENCH 1A AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y?	U	Y	Y	U	U	1.08	

STR	NO	CT	DISPL	TP	DIEOUT DN DIEOUT UP			OBSCURE SEGMENTS			REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL	

N29 - 1 P GT 5.00 N N *2 --
 N29 - 1 GT 2.50 N N *2 --
 N29 - 2 S CA 0.50 N U Y? UB 0.32 CA 0.4 N US FAULT MAY CONVERGE WITH INCLINED BASAL CONTACT OF SOIL.
 N29 - 3 S CA 0.30 N U Y? UB 0.74 CA 2.3 B UV
 N29 - 4 S 0.18 N N UB N US --

SITE: NEAR DRAPER, UTAH, USA SOURCE: 34 FAULT: WASATCH

EXPOSURE NO: N30 DESIGNATION: TRENCH 1B AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE: HO

COUCE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	Y	Y	U	0.46	U	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

N30 - 1 P GT 1.65 N N *I N *M --

SITE: NEAR DRAPER, UTAH, USA SOURCE: 34 FAULT: WASATCH

EXPOSURE NO: N31 DESIGNATION: WEST TRENCH AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE: U

COUCE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	Y	U	U	0.50	U	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

N31 - 1 P CA 0.75 N N *M --
 N31 - 1 U N UC --

SITE: DICKEY, IDAHO, USA SOURCE: 35, 35A FAULT: LOST RIVER

EXPOSURE NO: N32 DESIGNATION: AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE: HI

COUCE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
RU	Y	U	Y	Y	U	0.66	GT 33.40	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

N32 - 1 S 0.02 N Y CV --

N32 - 2 P	1.76	N		N	*H	--
N32 - 2	3.24	N	N		*H	--
N32 - 3 S	0.27	R	N		UC	--
N32 - 4 S	0.20	V	N		UC	--
N32 - 5 S	0.24	N	N		UC	--
N32 - 6 S	0.22	R	N		UC	--
N32 - 6	0.05	R		N	*M	--
N32 - 7 S	CA 1.05	N	N		*H	--
N32 - 7	0.17	N		N	UV	--
N32 - 8 S	0.19	N	U			--
N32 - 9 S	0.23	N	N		*H	--
N32 - 10 S	GT 2.60	N	N		*J	--
N32 - 10	CA 1.05	N		N	UV	--
N32 - 11 S	U		N		*J	--
N32 - 12 S	0.01	N	U	N	US	--
N32 - 13 S	0.05	N	U	N	US	--
N32 - 14 S	0.05	N	Y	UC	N US	--
N32 - 15 S	GT 4.74	N	N		*H	--
N32 - 15	CA 1.90	N		N	*M	--
N32 - 16 S	U		Y	UC		--
N32 - 17 S	CA 0.90	N	N	UC		--
N32 - 17	CA 0.85	N		N	UC	--
N32 - 18 S	0.07	N	U	N	UV	--
N32 - 19 S	U		N	UC		--
N32 - 19	1.24	N		N	*M	--
N32 - 20 S	U		N	UC	N *H	--
N32 - 21 S	0.05	N	N	UC		--
N32 - 21	CA 0.01	N		N	US	--
N32 - 22 S	0.78	N	N	UC		--
N32 - 22	CA 0.15	N		N	US	--
N32 - 23 S	0.29	N	N	UC		--
N32 - 23	0.08	N		N	US	--
N32 - 24 S	0.97	N	N	UC		--
N32 - 24	0.42	N		N	*M	--
N32 - 25 S	GT 0.40	N	N	UC		--
N32 - 25	0.07	N		N	US	--
N32 - 26 S	0.32	N	N	UC		--
N32 - 26	CA 0.14	N		N	*2	--
N32 - 27 S	CA 0.30	V	N	*H		--
N32 - 27	0.10	V		N	*M	--

ZONE OF STRONG CLAST ROTATION ADJACENT.

SITE:NEAR OROVILLE, CALIF., U.S.A..

SOURCE:40

FAULT:CLEVELAND HILL

EXPOSURE NO:N33 DESIGNATION:GRUBBS TRENCH 1

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

COUCE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
-----------	---	----	----	----	----	---------	-----------	---------

SK GO	U	U	U	U	U	1.40	U	SLICKENSIDES HAVE VARIOUS ORIENTATIONS.
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STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
-----	----	----	-------	----	-----------	-----------	------------------	---------

					? MTL	? MTL	DEPTH	LENGTH	LN	MTL
--	--	--	--	--	-------	-------	-------	--------	----	-----

N33 - 1 P	CE	1.90	N?	N	*D					
-----------	----	------	----	---	----	--	--	--	--	--

N33 - 1	GE	0.02	V			Y ST	0.26	0.44	B	ST SURFACE RUPTURE IN 1975.
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SITE:NEAR OROVILLE, CALIF., U.S.A.

SOURCE:40

FAULT:CLEVELAND HILL

EXPOSURE NO:N34 DESIGNATION:GRUBBS TRENCH 2

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	
CR	GO SK	Y	U	Y	U	U	0.70	U		

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS			REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL
N34 -	1	P	GE 0.70	V	N	RK		--		
N34 -	1		GE 0.02	V		Y ST	0.14	--	0.43	B UV
N34 -	2	S	U		N	RK		--		
N34 -	3	S	U		N	RK		--		

SITE:SALT LAKE COUNTY, UTAH, U.S.A.

SOURCE:41

FAULT:WASATCH

EXPOSURE NO:N35 DESIGNATION:TRENCH LC-1

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	
RU		Y	U	Y	U	U	0.25	U		

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS			REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL
N35 -	1	S	U		N	UC		--		
N35 -	2	S	U		N	UC		--	0.70	D UB
N35 -	3	S	CA 0.04?	V	N	UC		--		
N35 -	4	P	GT 4.30	N	N	*U		--		
N35 -	4		GT 1.60	N		N *N		--		
N35 -	5	S	0.14	V	N	UB		--		PUBLISHED DISPL.
N35 -	6	S	0.36	V	N	UB		--		PUBLISHED DISPL.
N35 -	7	S	0.03?	V	N	ST		--		PUBLISHED DISPL.
N35 -	8	S	0.04	V	N	ST		--		PUBLISHED DISPL.
N35 -	9	S	0.78	V	N	ST		--		PUBLISHED DISPL.
N35 -	10	S	0.52?	V	N	ST		--		PUBLISHED DISPL.
N35 -	11	S	0.38	V	Y	ST		--		PUBLISHED DISPL.
N35 -	12	S	0.05	V	N	ST		--		PUBLISHED DISPL.
N35 -	13	S	0.14	V	Y	ST		--		PUBLISHED DISPL.
N35 -	14	S	0.32	V	N	ST		--	0.75	B ST
N35 -	15	S	CA 0.25	N	N	ST		--	0.65	B ST
N35 -	16	S	GE 0.19	V	N	ST		--	GE 0.75	B ST PUBLISHED DISPL.

SITE:SALT LAKE COUNTY, UTAH, U.S.A.

SOURCE:41,42

FAULT:WASATCH

EXPOSURE NO:N36 DESIGNATION:TRENCH LC-2

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC		F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS	
RU		Y	U	Y	U	U	0.07	U		

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
N36 -	1	S	0.02	V	N	CL	0.42 D US	PUBLISHED DISPL. OBSCURE SEGMENT IS DOTTED.
N36 -	2	S	0.01	V	N	CL	--	PUBLISHED DISPL.
N36 -	3	S	0.02	V	N	CL	--	"
N36 -	4	S	0.03	V	N	CL	--	"
N36 -	5	S	0.06	V	N	CL	--	"
N36 -	6	S	0.03	V	N	CL	--	
N36 -	7	S	0.07	V	N	CL	--	
N36 -	8	S	0.04	V	N	CL	--	PUBLISHED DISPL.
N36 -	9	S	0.01	V	N	CL	--	"
N36 -	10	S	0.01	V	N	CL	--	"
N36 -	11	S	0.03	V	N	ST	--	"
N36 -	12	S	0.04	V	N	ST	--	"
N36 -	13	S	0.04	V	U		--	"
N36 -	14	S	0.01?	V	Y	US	--	"
N36 -	15	S	0.07	V	Y	US	--	"
N36 -	16	S	0.07	V	N	UC	--	
N36 -	17	P	GT 2.60	V	N	*H	--	
N36 -	17		GT 0.90	V		N *O	--	
N36 -	18	S	CA 0.40?	V	N	*M N SD	--	SLIP INCLUDES POST-EARTHQUAKE SETTLEMENT.
N36 -	19	S	U		N	*M	--	
N36 -	20	S	CA 0.30?	V	N	*M N SD?	0.24 D US	SLIP INCLUDES POST-EARTHQUAKE SETTLEMENT.
N36 -	21	S	U		N	*M Y US	0.32 0.32 N US	

SITE:SALT LAKE COUNTY, UTAH, U.S.A.

SOURCE:41, 44 FAULT:WASATCH

EXPOSURE NO:N37 DESIGNATION:TRENCH LC-3

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y?	U	Y	Y	U	U	U	TRENCH IS ACROSS LARGE ANTITHETIC FAULT SCARP.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
N37 -	1	S?	GE 3.20?	V	N	UC	--	
N37 -	2	S?	GE 0.20	V	N	UC	0.43 D SD	
N37 -	3	S	0.23?	V	N	ST	--	

SITE:NEAR ZEBABDJA, ECH CHELIFF, ALGERIA

SOURCE:43

FAULT:OUED FODDA

EXPOSURE NO:N38 DESIGNATION:ZEBABDJA TRENCH

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	Y	U	U	U	U	SUBSIDIARY TO 1980 REVERSE FAULTING

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
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						?	MTL		?	MTL	DEPTH	LENGTH	LN	MTL
N38	-	1	S	GT	1.20	N	N	*I				--		
N38	-	2	S	GT	2.90	N	N	*H?				--		
N38	-	2		LE	0.10	N			N	US		--		SURFACE RUPTURE IN 1980.

SITE:NEAR DIXIE VALLEY, NEVADA, U.S.A. SOURCE:45,45A FAULT:DIXIE VALLEY

EXPOSURE NO:N39 DESIGNATION:TRENCH 1 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	0.05	1.40	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS					
					?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL	
N39	-	1	P		0.30	N			N	US	--		SURFACE RUPTURE IN 1954.
N39	-	1		CT	0.30	N	N	SD			--		
N39	-	2	S	U			N	*M	N	US	--		

SITE:NEAR DIXIE VALLEY, NEVADA, U.S.A. SOURCE:45,45A FAULT:DIXIE VALLEY

EXPOSURE NO:N40 DESIGNATION:TRENCH 3 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	0.06	1.60	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS					
					?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL	
N40	-	1	P		0.50	N			N	*N	--		SURFACE RUPTURE IN 1954.
N40	-	1			2.30?	N	N	*I			--		
N40	-	2	P	GE	0.50	V	N	*I			--		

SITE:NEAR DIXIE VALLEY, NEVADA, U.S.A. SOURCE:45,45A FAULT:DIXIE VALLEY

EXPOSURE NO:N41 DESIGNATION:TRENCH 4 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	Y	U	0.30	1.00	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
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				?	MTL		?	MTL	DEPTH	LENGTH	LN	MTL	
N41	-	1	P			0.30	N						
N41	-	1		GE	0.30		N	N	SD				
N41	-	2	P	GE	1.50		N						
N41	-	2		GE	1.50		N	N	SD				

SURFACE RUPTURE IN 1954.

SITE:SAN FERNANDO, CALIF., USA

SOURCE:7

FAULT:VETERANS

EXPOSURE NO:R1 DESIGNATION:CRABER STREET

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
SK	Y	N	Y	U	U	CA 0.30	U	SFC DISPL OCCURRED IN 1971.

STR	NO	CT	DISPL	TP	DIEOUT DN		DIEOUT UP		OBSCURE SEGMENTS			REMARKS	
					?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL	

R1 - 1 P CA 0.08 V N CL N *I

SITE:SAN FERNANDO, CALIF., USA

SOURCE:7,8

FAULT:SAN FERNANDO

EXPOSURE NO:R2 DESIGNATION:BA-A

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
N	Y	N	Y	Y	U	U	29.40	

STR	NO	CT	DISPL	TP	DIEOUT DN			DIEOUT UP			OBSCURE SEGMENTS			REMARKS
					?	MTL		?	MTL	DEPTH	LENGTH	LN	MTL	

R2 - 1 S 0.04? R Y SD Y SD 0.60 1.70 D SD

R2 - 2 S U Y SD -- 0.70 D SD

R2 - 3 S U Y SD 1.60 2.70 D SD

R2 - 4 S U Y SD CA 1.80 2.70 D SD

R2 - 5 S U U Y SD 1.40 1.20 D SD

R2 - 6 S U U 1.60 D SD

R2 - 7 S U U Y SD 1.80 1.00 D SD

R2 - 8 S U Y SD Y SD 1.30 2.60 D SD

R2 - 9 S U Y SD Y SD 1.64 2.50 D SD

R2 - 10 S U Y SD Y SD 2.30 0.90 D SD

R2 - 11 S 0.05 R Y SD Y SD 1.60 --

R2 - 12 P CA 0.30 R Y SD GE 3.5 CA 4.00 N SD SFC DISPL IN ZONE 7 M WIDE; NO THROUGHGOING FLTS IN TR.

SITE:SAN FERNANDO, CALIF., USA

SOURCE:7,8

FAULT:SAN FERNANDO

EXPOSURE NO:R3 DESIGNATION:BA-B

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
BR	U	N	N	N	U	U	19.0	BR AND FLT DRAG IN MIOCENE BEDROCK. WIDTH OF SFC RUPTURE ZONE IS GIVEN.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS								
					? MTL	? MTL	DEPTH	LENGTH LN MTL								
R3	-	1	P	CA	0.60	V	U	Y	SD	GE	3.4	CA	3.40	N	SD	SFC V CA 0.6 M OVER ZONE 19 M WIDE. NO FLT TRACES IN TR.

SITE:SAN FERNANDO, CALIF., USA SOURCE:7,8 FAULT:SAN FERNANDO
 EXPOSURE NO:R4 DESIGNATION:BROWN TR AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
N	Y	U	Y	N	U	U	U	CEMENTATION ALONG OLDER (HOLOCENE?) FAULT.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS								
					? MTL	? MTL	DEPTH	LENGTH LN MTL								
R4	-	1	S		0.05	N	Y	UC	--							
R4	-	2	S	LT	0.01	R?	Y	ST	--							
R4	-	3	S?	CA	0.07	V	U	Y	UB	GE	5.5	CA	6.60	N	UB	PROBABLY HAD SOME DISPL IN 1971. FAULT DISPL AT SFC IN 1971.
R4	-	4	S	CA	0.05	R	Y	SD	--							

SITE:SAN FERNANDO, CALIF., USA SOURCE:7,8 FAULT:OAK HILL
 EXPOSURE NO:R5 DESIGNATION:OAK HILL TR AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
GO RU	N	N	Y	U	U	U	1.40	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS									
					? MTL	? MTL	DEPTH	LENGTH LN MTL									
R5	-	1	S	GT	1.00	V	N	SS	--								
R5	-	2	P	CA	0.60	V	N	*D	Y	SD	CA	0.90?	CA	0.90?	N	SD	MONOCLINE AND CRACKS FORMED AT SFC IN 1971.

SITE:SAN FERNANDO, CALIF., USA SOURCE:9 FAULT:SAN FERNANDO
 EXPOSURE NO:R6 DESIGNATION:T8 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
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CO BR SH U N Y U U 4.2 GT 16.80 FAULT ZONE WIDENS UPWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R6	-	1	S? U		Y	AL		--
R6	-	2	S? GE10.70	R	N	*R		--
R6	-	3	P U		N	*D		--
R6	-	4	P U		Y	U		--
R6	-	5	P U		N	U		--
R6	-	6	P U		N	U	N RK	--
R6	-	7	P CA 0.70	V	N	SS	N RK	--

PREHISTORIC RUPTURE.
PREHISTORIC RUPTURE.
STRANDS 6 AND 7 ARE BEDDING PLANE FAULTS.
DISPL CA 0.7 M V IN 1971 (BARROWS, 1975, P. 102).

SITE:MANAGUA, NICARAGUA

SOURCE:2

FAULT:FAULT ZONE E

EXPOSURE NO:R7

DESIGNATION:SOUTHEAST NO. 2A, 2B, & 2C

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
CO	Y	U	U	U	U	U	CA 162.0	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R7	-	1	S		N	US?		--
R7	-	2	S		N	U		--
R7	-	3	S U		N	US?		--
R7	-	4	P		N?	ST		--
R7	-	5	P		N	*Y?		--
R7	-	6	S		N	US?		--
R7	-	7	S		N	US?		--
R7	-	8	S		N	US?		--
R7	-	9	S		N	US?		--
R7	-	101	P		N	US?	0.80 D	VU
R7	-	102	S CA		N	Y US?		--
R7	-	103	S		N	Y US?		--
R7	-	104	S		N	Y US?		--
R7	-	105	S		N	Y US?	0.70 N	US?

SITE:MANAGUA, NICARAGUA

SOURCE:2

FAULT:FAULT ZONE E

EXPOSURE NO:R8

DESIGNATION:SOUTHEAST NO.3

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	7.58 GE	36.00	ZONE WIDENS UPWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
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					?	MTL	?	MTL	DEPTH	LENGTH	LN	MTL
R8	-	1	S	U		N	CG			0.80	D	CG
R8	-	2	S	U		N?	CG			--		
R8	-	3	S	U		N	CG			--		
R8	-	4	S		0.29?	N	CG			1.70	D	US
R8	-	5	S		0.05?	V	N?	CG		--		
R8	-	6	S		0.05?	V	N	CG		--		
R8	-	7	S	U		N	CG			--		
R8	-	8	S	U		N?	CG			--		
R8	-	9	S		0.23?	R	N	CG		--		
R8	-	10	S		0.57?	V	N	CG		--		
R8	-	11	S	U		Y	VO			--		
R8	-	12	S		0.17?	N	N	CG		--		
R8	-	13	P	CA	0.46	R	N	*O?		--		
R8	-	14	S	U		Y	US?			--		
R8	-	15	S	U		Y	US?			--		
R8	-	16	S	U		Y	US?			--		
R8	-	18	S		0.40	R	Y	VO		1.20	D	VU
R8	-	19	P		1.43?	R	U			--		
R8	-	20	S	U		N	CG			--		
R8	-	21	S	U		N	CG			--		
R8	-	22	S	U		N	CG			--		
R8	-	23	S	U		N	CG			--		
R8	-	24	S	U		N	CG			--		
R8	-	25	S	U		N	CG			--		
R8	-	26	S	U		N	CG			--		
R8	-	27	S	U		N	CG			--		
R8	-	28	S	U		N	CG			--		
R8	-	29	S	U		N	CG			--		
R8	-	30	S	U		N	CG			--		
R8	-	31	S		0.23?	V	N	CG		--		
R8	-	32	S		0.23?	V	U			--		
R8	-	33	S		0.05?	R	U			--		
R8	-	34	S	U		N	CG			--		

DISPL ACROSS STRS 15 & 16 IS CA 0.17 M.

SITE:NEAR ARVIN, CALIF. USA

SOURCE:10

FAULT:WHITE WOLF

EXPOSURE NO:R9 DESIGNATION:TR 1

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC F LI PB PR WB WIDTH P WIDTH P+S REMARKS

N U U U U U LT 0.09 U RUPTURE PRODUCED MOLE TRACK AT GROUND SURFACE IN 1952.

STR NO CT DISPL TP DIEOUT DN DIEOUT UP OBSCURE SEGMENTS REMARKS

? MTL ? MTL DEPTH LENGTH LN MTL

R9 - 1 P 0.94 R U Y SD 0.82 0.98 B SD DISPL BASED ON OFFSET OF UPPERMOST CONTACT.

SITE:NEAR ARVIN, CALIF., USA

SOURCE:10

FAULT:WHITE WOLF

EXPOSURE NO:R10 DESIGNATION:TR2

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC F LI PB PR WB WIDTH P WIDTH P+S REMARKS

N U U U U U LT 0.09 U RUPTURE PRODUCED MOLE TRACK AT GROUND SURFACE IN 1952.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH	LN MTL

R10	-	1	P		0.70	R	N *H	Y SD	1.20	1.90	B	SD
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SITE:SAN MARINO, CALIF., USA SOURCE:11 FAULT:RAYMOND

EXPOSURE NO:R11 DESIGNATION:TR A-A' (HIGH SCHOOL) AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
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U	Y	Y	Y	Y	U	1.70	7.30	SAME TRENCH AS EXP R14 BUT OPPOSITE WALL. ZONE WIDENS UPWARD.
---	---	---	---	---	---	------	------	---

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH	LN MTL

R11	-	1	S		0.30	V	U		0.36	D	SD
R11	-	2	P	GE	1.70	V	N *H		--		
R11	-	3	P	GE	2.70	V	N *J		--		
R11	-	4	S	CA	0.03	R	Y J		--		
R11	-	5	S	GE	1.70	V	N *H		--		
R11	-	6	S		0.29	N	Y SD		--		
R11	-	9	S	CA	0.18	R	U		0.20	D	ST

SITE:SAN MARINO, CALIF., USA SOURCE:11 FAULT:RAYMOND

EXPOSURE NO:R12 DESIGNATION:TR C-C' (HIGH SCHOOL) AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
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U	U	U	N?	U	U	U	U	TRENCH MAY NOT CROSS ENTIRE FAULT.
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STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	LENGTH	LN MTL

R12	-	1	P	GE	1.80	V	N *K		1.30	D	CL
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SITE:PASADENA, CALIF., USA SOURCE:12 FAULT:RAYMOND

EXPOSURE NO:R13 DESIGNATION:TRENCH 7 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
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U Y? U Y U U U 1..30 GIVEN WIDTH ASSUMES CONTACT NORTH OF P IS A FLT. ZONE WIDENS UPWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R13 -	1 S	0.06	V	N	CL		--	DISPL FROM SOURCE 12, P. 75.
R13 -	2 P	GE 3.00	V	N	*L		--	

SITE:SAN MARINO, CALIF., USA SOURCE:12 FAULT:RAYMOND
EXPOSURE NO:R14 DESIGNATION:TRENCH 14 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	Y	Y	U	U	1.30	6.10	SAME TRENCH AS EXP R11 BUT OPPOSITE WALL. ZONE WIDENS UPWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R14 -	1 S	CA 0.01	R	Y	ST		--	
R14 -	2 S	U		N	ST		--	
R14 -	3 S	CA 0.20	R	U			0.3 D SD	PROBABLY HAS STRIKE-SLIP COMPONENT.
R14 -	4 S	CA 0.87	N	N	*V		--	
R14 -	7 P	GE 2.80?	V	N	*V		--	PROBABLY HAS STRIKE-SLIP COMPONENT.
R14 -	8 P	GE 2.80?	V	N	*I		--	
R14 -	9 S	0.16	V	Y	SD		--	

SITE:GLENDALE, CALIF., USA SOURCE:12 FAULT:SIERRA MADRE FAULT ZONE
EXPOSURE NO:R15 DESIGNATION:TRENCH 18A AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
N	U	U	Y	U	U	U		

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R15 -	1 P	GE 2.10	R	N	*H	N *M	--	

SITE:PASADENA, CALIF., USA SOURCE:12 FAULT:SIERRA MADRE FAULT ZONE
EXPOSURE NO:R16 DESIGNATION:TRENCH 20-C AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:PL

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
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GO CR		U	U	N?	N?	U	GT	3.00	U	TRENCH TOO SHORT TO GET FULL WIDTH.		
STR	NO	CT	DISPL	TP	DIEOUT	DN	DIEOUT	UP		OBSCURE	SEGMENTS	REMARKS
					? MTL		? MTL	DEPTH		LENGTH	LN	MTL
R16	-	1	P	GT	2.90	R	N	*I		--		
R16	-	2	P	GT	1.50	R	N	*E		--		
SITE:SAN MATEO COUNTY, CALIF., USA												
				SOURCE:13				FAULT:ANO NUEVO (SAN GREGORIO F. Z.)				
EXPOSURE NO:R17				DESIGNATION:TRENCH AN-1				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO				
GOUGE ETC		F	LI	PB	PR	WB	WIDTH	P	WIDTH	P+S	REMARKS	
GO MX BR CR		U	U	N	U	U	0.40		1.80		ZONE WIDENS UPWARD.	
STR	NO	CT	DISPL	TP	DIEOUT	DN	DIEOUT	UP		OBSCURE	SEGMENTS	REMARKS
					? MTL		? MTL	DEPTH		LENGTH	LN	MTL
R17	-	1	P	GT	3.30	R	N	*E		--		
R17	-	2	S	U			Y	CL		--		
SITE:GRAPEVINE, CALIF., USA												
				SOURCE:14				FAULT:PLEITO				
EXPOSURE NO:R18				DESIGNATION:FUMAROLE 1				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO				
GOUGE ETC		F	LI	PB	PR	WB	WIDTH	P	WIDTH	P+S	REMARKS	
N		U	U	Y	Y	U	0.3	U			DRAG ON BOTH SIDES OF FAULT.	
STR	NO	CT	DISPL	TP	DIEOUT	DN	DIEOUT	UP		OBSCURE	SEGMENTS	REMARKS
					? MTL		? MTL	DEPTH		LENGTH	LN	MTL
R18	-	1	P	GE	1.20	R	N	GV		CA 3.00	D	GV
SITE:GRAPEVINE, CALIF., USA												
				SOURCE:14				FAULT:PLEITO				
EXPOSURE NO:R19				DESIGNATION:FUMAROLE 2				AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO				
GOUGE ETC		F	LI	PB	PR	WB	WIDTH	P	WIDTH	P+S	REMARKS	
U		U	U	Y	Y?	U	9.4	U			WIDTH OF EACH OF TWO SHEAR ZONES IS FROM 0.1 TO 0.5 M.	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R19	-	1	P	CA	3.00	R	N	*H
R19	-	2	P	GE	5.5	R	N	*I

SITE:CLYDE, NEW ZEALAND

SOURCE:15

FAULT:DUNSTAN

EXPOSURE NO:R20 DESIGNATION:TRENCH DC 501.

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:QU

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	Y	Y	U	0.40	16.10	DRAG ON BOTH WALLS OF P.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R20	-	1	S		0.10	R	Y	SD
R20	-	2	P	CA	4.50	R	N	SD
R20	-	3	S		0.20	R	N	SD

DISPL ON P INCLUDES DRAG.

SITE:CLYDE, NEW ZEALAND

SOURCE:15

FAULT:DUNSTAN

EXPOSURE NO:R21 DESIGNATION:TRENCH DC 502

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:QU

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	Y	U	0.50	12.50	THE UPTHROWN SIDE IS DRAGGED DOWNWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R21	-	1	P	GT	0.50	R	N	*H
R21	-	2	S		0.70	V	N	SD
R21	-	3	S	CA	0.20	R	N	*H

SITE:CLYDE, NEW ZEALAND

SOURCE:15

FAULT:DUNSTAN

EXPOSURE NO:R22 DESIGNATION:TRENCH DC 503

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:QU

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	Y	U	2.8	CA 18.00	PRIMARILY FOLDING IN THIS EXPOSURE. TOTAL V INCLUDING DRAG IS 4 M.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R22 -	2	S	CA 0.70	R	Y	GV	--	
R22 -	3	P	U		N	*H	--	

SITE:CLYDE, NEW ZEALAND SOURCE:15 FAULT:DUNSTAN

EXPOSURE NO:R23 DESIGNATION:TRENCH DC 504 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:QU

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
SH	U	U	Y	Y	U	12.4	12.4	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R23 -	1	P	CA10.00	R	N	*J?	2.30	D GV
R23 -	2	P	CA 2.00	R	N	*I	1.30	N GV

SITE:CLYDE, NEW ZEALAND SOURCE:15 FAULT:DUNSTAN

EXPOSURE NO:R24 DESIGNATION:TRENCH DC 505 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:QU

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	Y	U	1.6	U	ZONE WIDENS UPWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R24 -	1	P	CA 2.50	R	N	*X	--	THE UPTHROWN SIDE IS DRAGGED DOWNWARD.

SITE:CLYDE, NEW ZEALAND SOURCE:15 FAULT:DUNSTAN

EXPOSURE NO:R25 DESIGNATION:TRENCH DC 506 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	Y	U	1.20	6.40	DRAG ON BOTH WALLS OF FAULT.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

R25 - 1 S 0.60 R N UV
 R25 - 2 S 1.70 R U
 R25 - 3 P GE 4.50 R N UV

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 --
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SITE:CLYDE, NEW ZEALAND

SOURCE:15

FAULT:DUNSTAN

EXPOSURE NO:R26 DESIGNATION:TRENCH DC 507

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	Y	U	0.20	U	DRAG ON BOTH WALLS OF FAULT.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

R26 - 1 P 1.40 R N ST

--

SITE:CLYDE, NEW ZEALAND

SOURCE:15

FAULT:DUNSTAN

EXPOSURE NO:R27 DESIGNATION:TRENCH DC 508

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	Y	U	2.00	U	THE UPTHROWN SIDE IS DRAGGED DOWNWARD.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

R27 - 1 P CA 5.80 R N *X

--

THE UPTHROWN SIDE IS DRAGGED DOWNWARD.

SITE:CLYDE, NEW ZEALAND

SOURCE:15

FAULT:DUNSTAN

EXPOSURE NO:R28 DESIGNATION:TRENCH DC 513

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HO

COUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
SH	U	U	Y	Y	Y	U	U	THE GRAVELS ON UPTHROWN SIDE ARE TILTED.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL

R28 - 1 P GT 3.50 R N *X

--

SITE:CLYDE, NEW ZEALAND

SOURCE:15

FAULT:DUNSTAN

EXPOSURE NO:R29 DESIGNATION:TRENCH DC 511

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:CZ

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	U	U	U	U	U	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R29	-	1	P	U	N	*G	--	

SITE:NEAR COALINGA, CALIF., U.S.A.

SOURCE:46,46A FAULT:NUNEZ

EXPOSURE NO:R30 DESIGNATION:TRENCH BY LEVEL LINE N2

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
BR SH	N	N	N	N		0.25 U		

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R30	-	1	P	U	N	*D	--	
R30	-	1		0.23 V		N	*T	SURFACE DISPL IN 1983.

SITE:NEAR COALINGA, CALIF., U.S.A.

SOURCE:46,46A FAULT:NUNEZ

EXPOSURE NO:R31 DESIGNATION:TRENCH BY LEVEL LINE N4

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
BR	Y	N	N	N		0.24 U		

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R31	-	1	P	GE 0.45 V	N	MS	N	*T
							--	SURFACE RUPTURE IN 1983.

SITE:NEAR COALINGA, CALIF., U.S.A.

SOURCE:46,46A FAULT:NUNEZ

EXPOSURE NO:R32 DESIGNATION:TRENCH BY LEVEL LINE N7

AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	N	N	Y	N	N	0.75	U	WIDTH OF MONOCLINAL FLEXURE.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R32	-	1	P	0.09	V	U	Y UV	GT 2.40 GT 3.46 N UV NO FAULT STRANDS VISIBLE BELOW 1983 SCARP.

SITE:NEAR OUED FODDA, ECH CHELLIF, ALGERIA SOURCE:43 FAULT:OUED FODDA
 EXPOSURE NO:R33 DESIGNATION:EL ABADIA NO. 1 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	LE	0.04 GE 12.70	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R33	-	1	P	1.80	R	Y? US	0.37	1.30 B US SURFACE RUPTURE IN 1980.
R33	-	1	GE	4.40	R	N CG	--	

SITE:NEAR OUED FODDA, ECH CHELLIF, ALGERIA SOURCE:43 FAULT:OUED FODDA
 EXPOSURE NO:R34 DESIGNATION:EL ABADIA NO. 2 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:QU

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	U	U	WIDTH INCLUDED IN EXP R33.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R34	-	1	S	1.30	N	N CG	--	
R34	-	2	S	LE 3.00	N	N *D	--	

SITE:NEAR OUED FODDA, ECH CHELLIF, ALGERIA SOURCE:43 FAULT:OUED FODDA
 EXPOSURE NO:R35 DESIGNATION:EL ABADIA NO. 3 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	U	U	

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R35 -	1 P		0.53	R	N	GV	Y? GV	CA 0.10 0.57 B GV
R35 -	2 P	CA	0.90	R	N	GV	N? GV	-- 1980 SURFACE RUPTURE.

SITE:NEAR OUED FODDA, ECH CHELLIF, ALGERIA SOURCE:43 FAULT:OUED FODDA
 EXPOSURE NO:R36 DESIGNATION:OUED FODDA NO. 1 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	U	U	SURFACE RUPTURE IN 1980.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R36 -	1 P	GE	2.00	R	N	UB	--	
R36 -	2 P		2.50	R	N	UB	--	

SITE:NEAR OUED FODDA, ECH CHELLIF, ALGERIA SOURCE:43 FAULT:OUED FODDA
 EXPOSURE NO:R37 DESIGNATION:OUED FODDA NO. 2 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:HI

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	U	U	Y	U	U	2.90	U	SURFACE RUPTURE IN 1980.

STR	NO	CT	DISPL	TP	DIEOUT DN	DIEOUT UP	OBSCURE SEGMENTS	REMARKS
					? MTL	? MTL	DEPTH	LENGTH LN MTL
R37 -	1 P	CA	1.40	R	N	ST	Y US	0.35 1.40 B US
R37 -	2 P	CA	1.30	R	N	ST	Y US	0.20 0.80 B US

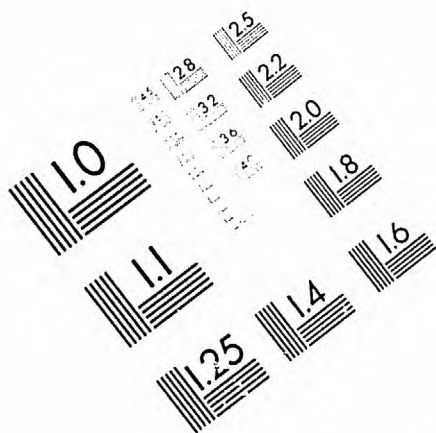
SITE:MANAGUA, NICARAGUA SOURCE:2 FAULT:FAULT ZONE N
 EXPOSURE NO:U1 DESIGNATION:NORTHEAST NO.7 AGE OF LAST FAULT DISPLACEMENT AT EXPOSURE:PL

GOUGE ETC	F	LI	PB	PR	WB	WIDTH P	WIDTH P+S	REMARKS
U	Y	U	U	U	U	0.30	8.30	BOTH NORMAL AND REVERSE SEPARATION MAPPED ON PARTS OF STR 1.

STR	NO	CT	DISPL	TP	DIEOUT DN DIEOUT UP			OBSCURE SEGMENTS			REMARKS
					? MTL	? MTL	DEPTH	LENGTH	LN	MTL	
U1	-	1	P		0.16?	R	N	MR	--		
U1	-	2	S		0.13	N	Y	US?	--		
U1	-	3	S		0.08	V	N?	MR	--		

SOURCES

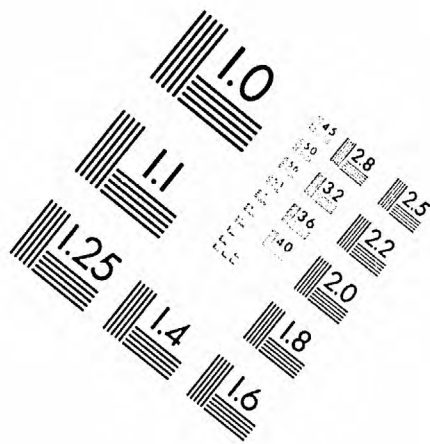
- 1 MALDE (1971)
- 2 WOODWARD-CLYDE CONSULTANTS (1975)
- 3 BONILLA AND OTHERS (1984)
- 4 SWAN AND OTHERS (1980)
- 5 LUBETKIN (1980)
- 6 DODGE (1982)
- 7 BONILLA, M. G., 1971, UNPUB. FIELD NOTES
- 8 BONILLA (1973)
- 9 BARROWS (1975)
- 10 COTTON AND OTHERS (1976)
- 11 BRYANT (1978)
- 12 CROOK AND OTHERS (1987)
- 13 WEBER AND COTTON (1981)
- 14 COTTON AND OTHERS (1981)
- 15 OFFICERS OF THE GEOLOGICAL SURVEY (1983)
- 16 CONVERSE, DAVIS AND ASSOCIATES (1968)
- 17 CONVERSE, DAVIS AND ASSOCIATES (1969)
- 18 SIEH AND OTHERS (1973)
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- 23 BURKE (1979)
- 24 ANDO AND OTHERS (1980)
- 25 TAYLOR AND OTHERS (1980)
- 26 COTTON AND OTHERS (1982)
- 27 MACHETTE (1988)
- 28 BROWN AND OTHERS (1973)
- 29 SIEH (1984)
- 30 NASH (1981)
- 30A NASH, D.B., 1986, WRITTEN COMMUNICATION
- 31 HANSON AND OTHERS (1981)
- 32 SCHWARTZ (1983)
- 33 CRONE (1983)
- 33A CRONE, A.J., 1986, WRITTEN COMMUNICATION
- 34 SCHWARTZ, D.P., AND LUND, WILLIAM, 1986, UNPUB. DATA
- 35 SCHWARTZ AND CRONE (1985)
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- 38 RECHES AND HOEXTER (1981)
- 39 MACHETTE (1986)
- 40 SCHWARTZ AND OTHERS (1977)
- 41 SWAN AND OTHERS (1981)
- 42 HANSON AND SCHWARTZ (1982)
- 43 WOODWARD-CLYDE CONSULTANTS (1983)
- 44 SCHWARTZ AND COPPERSMITH (1984)
- 45 BELL AND KATZER (1987)
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- 46 RYMER AND OTHERS (1990)
- 46A LIENKAEMPER, J.J., AND RYMER, M.J., 1986, UNPUB. DATA
- 47 COPPERSMITH (1979)
- 48 WOODWARD-CLYDE CONSULTANTS (1976)
- 49 SHARP (1981)
- 50 SHARP, R.V., 1978, UNPUB. DATA
- 51 TANNA FAULT TRENCHING RESEARCH GROUP (1983)
- 52 IHARA AND ISHII (1932)
- 53 LUBETKIN AND CLARK (1988)
- 54 MALDE (1987)
- 55 SCHWARTZ (1988)



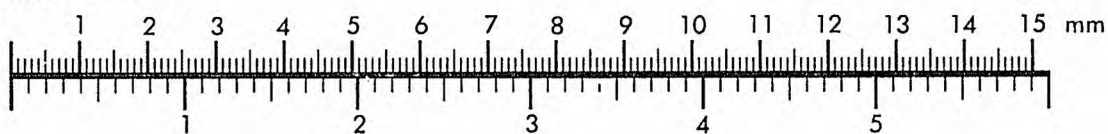
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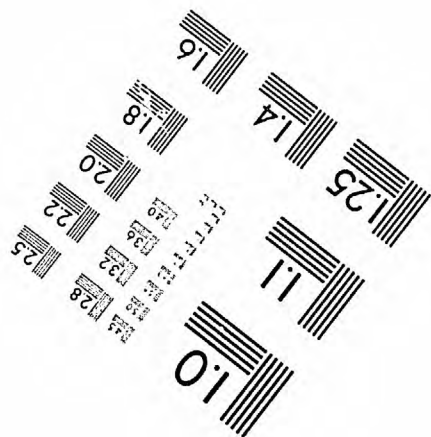
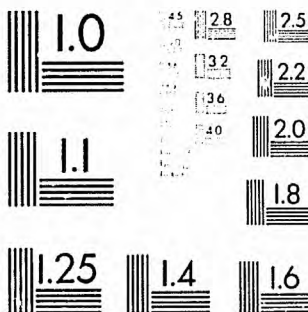
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