Lake Mead 1945
Complete

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . JANUARY 1945

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedule throughout January.

In the following report symbol I represents shock with small trace amplitude on record, II represents a fairly well recorded shock and a barely recorded shock is marked "trace", III large trace amplitudes. Local shocks are less than 70 mi., regional shocks from 70 to 700 mi. Regional shocks of unknown distance may be classed as distant.

No.	Date Jan.	G.C.T.	Location of Epicenter
1	1	04h 31m 04.5s	8½ mi. ESE of Boulder Dam
2	4	03h 21m 15.2s	10.5 mi. SE of Boulder Dam
3	8	11h 05m 34.1s	7 mi. NE of Boulder Dam
4	11	11h 56m 44s	12 mi. SW of Elgin in Meadow Valley Mtns.
5	12	18h 48m 32.3s	3 mi. NW of Boulder City
6	30	13h 59m 51.6s	Lake basin 3 mi. NW of Boulder Dam

The following shocks were reported felt in the Lake Mead Region. (Roman numberals are intensity grades as estimated by the Modified Mercalli Scale of 1931).

No.	Date	G.C.T.	Intensity and Description
5	12	18:48	IV at Boulder City, rattled windows, doors, and water pipes. Fairly sharp shock for locality.
6	30	13:59	II or III at Boulder City - mostly noise.

Confidential-not for publication.

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LAKE MEAD SEISMOLCGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 1945

Time used is

No.	Date	Phase	BOULDER CITY Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h	m	s	Period T	Trace Amplitude E	N	Z
1		iP	01	28	48.4	1.7	-10	-30	+98	iP	01	28	43		-12	-15	+75	iP	01	28	46.0	1.5	-38	-75	+230
		i		30	49					e		35	09					iS		35	10				
		e		35	20					e			29					i		42	29				
		eS			30													iL		43	11				
		coda				4.0																			
		CGS 73° N, 70° W (Baffin Bay) Δ = 43° NNE 0 = 1:20.8																							
1		i	02	16.5														iP	02	16	03.9				
		Trace Local																iS			21.6				
																		I Local - 90 mi.							
1		i	04	21.6																					
		Trace Local - 15 mi.																							
1	1	iP	04	31	08.4		-	+	+25	iP	04	31	16					iP	04	31	14.5				
		iS			11.1				60	iS			23.8					eS			21.6				
		0	04	31	04.5					iS			24.2					iS			21.9				
		I Local, 13.8 mi.									40 mi.								35 mi.						
		Epicenter 8½ mi. ESE of Boulder Dam																							
	1	i	05	18.8		Trace Local																			
	1	iP	09	02	46													iP	09	02	49.5				
		i				I Distant												iP		03	13				
	1	i	10	07	15																				
		i			43	I trace Regional																			
	2	iP	02	36	26					iP	02	36	30					iP	02	36	38				
		eS		37	00	I Regional				iS		37	08		No time control			eS		37	18				
																		iS			24	Regional			
	2	iP	19	46	41	1.8			+									iP	19	46	37				
		I Distant																eSKS		57	26	About 90°			
																		eS			37				

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Time used is 2.

No.	Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	3	iP	06	50	43													iP	06	50	48				
		iP		51	20													i		51	22				
		i		54	28.5	I Distant												iP			27				
	3	iP	08	14	25.4		+4	+32	-																
		iS			26.6																				
		I Local 6 mi. N.																							
	3	iP	12	27	48	I Distant												iP	12	27	51				
	3	i	22		47.8				+																
		Trace Local - 5 mi.																							
	3	i	23		26.5				+																
		I Local - 6 mi.																							
2	4	0	03	21	08.3				+	iP	03	21	21					iP	03	21	18.5				
		iP	03	21	12.4					iS			29.6					iS			25.6				
		iS			15.2								44 mi.							35.5 mi.					
		I Local 14.3 mi. - Epicenter 10.5 mi. SE of Boulder Dam																							
	4	iP	06	28	52		+?	-4	-									iP	06	28	54.5				
		I Distant																							
	4	iP	18	39	49.5	I Distant			-									iP	18	39	52				-
	5	0	00	55	13.2													iP	00	55	23.2				
		iP	00	55	17.0				-									iS			30.8				
		iS			1916																				
		I Local 13.3 mi. - Epicenter in line with Nos. 1 and 2.																							
	5	eP	06	25	46.5	3.7												eP	06	23	46.5				
		I Distant																							

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Bureau of Reclamation, National Park Service
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MONTH OF 1945 3.

Time used is January

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
5	iP	06	37	24.4													iP	06	37	31.6				
	e		38	39.5													eS		38	57.6				
	I Regional 390 mi.																							
5	eP	11	08	43													iP	11	08	42.5				
5	eP	17	49	40													iP	17	49	52				
	eS		50	05													iS		48	05				
	I trace Regional 130 mi.																							
5	e	20	55	15													eP	20	55	21	1.8			
	e			26																				
	I trace Distant																							
6	iP	06	38	58.3				-									iP	06	39	05				
	e			59.9													eS			12.3				
	iS		39	00.5				180									iS			13.5				
	II Local 11 mi. - Black Mtn. Area																	35 mi.						
6	eP	09	45	05													eP	09	45	06	1.9			+
	I trace Distant																							
6	iP	12	17	59.7				-?									iP	12	18	05.6				
	i		18	01.7													eS			12.8				
	iS			02.5														35½ mi.						
	I Local 14.5 mi. Epicenter in line of Nos. 1 and 2																							
6	i	12	26.3		I trace 3 mi.																			
6																	i	19	45.3		I local - 7 mi.			
7																	iP	02	33	34				
																	eS			53				
																	I Trace Regional 95 mi.							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 194[illegible] 5 4.

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
		Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
Date	Phase	h	m	s	T	E	N	Z	Phase	h	m	s	T	E	N	Z	Phase	h	m	s	T	E	N	Z
7																	iP	22	52	00				
																	eS			18.6				
																	I Trace Regional 95 mi.							
7	eP	04	26	58	I Distant												eP	04	26	56				
7	i	05	20.4		I trace Local 5 mi.																			
7	eP	22	26	56					iP	22	27	00					iP	22	27	05				
	iP		27	00.7					i			41					eP			22				
	iP			11.7	0.9					III Regional							eS		28	39				
	eS		28	02														III Regional						
	eS			18																				
	iS			53	1.5			360																
	II Regional																							
	ca - 400 mi. - Felt in San Francisco Bay Area																							
7									iP	22	54	30		+	-	-								
									iS			30.6												
									II Local 3 mi.															
8	iP	04	29	32	I Distant - trace												iP	04	29	36				+
8	iP	09	37	32	I Distant - trace												iP	09	37	35				
8	i	10	29.8		I trace Local 9 mi.																			
8																	i	10	41.2			+	-	+
																		I Local 5 mi.						
3 8	0	11	05	28					iP	11	05	37.6	Time uncertain				iP	11	05	38.4				
	iP	11	05	31.6					iS			44.2					iS			45.4				
	eS?			33.2						33.5 mi.							iS			45.9				
	iS			34.1				140										36 mi.						
	I Local 12.8 mi. Epicenter 7 mi. NE of Boulder Dam																							

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MONTH OF January 194[illegible] 5.

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
Sta. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
9	iP	04	02	25.6													iP	04	02	16				
	iS			44.9													eS			28				
	Trace Regional 95 mi.																iS			28.4				
																	II Local 60 mi.							
9	iP	12	25	20.5				-									iP	12	25	14.5				+
	I Distant - trace																							
9	iP	15	31	38	I trace												iP	15	31	40.5				+
																	I trace Distant							
9	eP	16	32	36	I trace												iP	16	32	39.5				
																	iP			47.5				
																	I Distant							
9																	iP	18	20	14.5				
																	iS			38.5				
																	Trace Regional 125 mi.							
9	iP	21	47	23.5				-									eP	21	47	16.5				
	I Distant																iP			23.5				
10	iP	08	54	06													iP	08	54	09.5				
	i			40	I trace												i			17				
10									i	17	40.0		II Local 6 mi.											
10																	i	22	38.6			+15	0	+
																	II - 6 mi. W.							
11																	i	00	59	15				
																	e	01	01	02	Trace Regional			
11	iP	01	18	44.5	1.3		+	+30									iP	01	18	48				+70
	i		19	22													i		22	19				
	i		22	11													e		28	09				
	II Distant																i			57				
																	i		29	27				

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MONTH OF January 1945 6.

Time used is

No.	Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	11	iP	01	55	43.5	I trace Distant					Time control uncertain at Overton							iP	01	55	46				-
	11	iP	03	14	10													iP	03	14	05				-
		I trace																iS		20	53	3			
																		e		22	06				
	11	eP	06	09	57	I trace Distant												iP	06	10	00				
	11																	iP	06	49	08.6	I Distant			+
	11																	iP	11	48	38				
																		iS			56.5				
																		I trace Regional 95 mi.							
4	11	iP	11	56	25			+	+	iP	11	56	20					iPZ	11	56	25.8				
		iP			26								31.6					iP			26.3		+?	+5	-
		eS			43						III Local 59 mi.							iS			43.5				
		iS			44		320		350									III - 93 mi.							
		II Regional 92 mi. Epicenter 12 mi. SW of Elgin in Meadow Valley Mtns.																							
	11																	iP	12	28	30				
																		iS			48				
																		I trace Regional 90+ mi.							
	11																	iP	14	12	47				
																				13	05				
																		I trace Regional 90 mi.							
	11	eP	17	02	05					iP	17	02	00	ca				eP	17	02	05.9				
		iP			06			-	-	1			09.5					iP			06.7				
		eS			23.2						II Local - Epicenter probably							eS			24.0				
		eS			24.3						same as No. 4							iS			24.6				
		I Regional 90 mi.																II - 92 mi.							

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MONTH OF January 1945 7.

Time used is

No. Date	Phase	BOULDER CITY Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h	m	s	Period T	Trace Amplitude E	N	Z
11	eP	20	25	26	I trace Distant												iP	20	25	29.5				+
11	eP	21	16	00	I trace Distant												iP	21	15	55				
12	eP	18	46	13	1.5	I Distant											iP	18	46	01				
12	iP	18	50	52	2.5												iP	18	50	52				
	e		54	04													iP			55				
		I Distant Δ = 5700 mi. CGS 34° N 139° E.															e	19	01	16				
12	0	18	48	29.6					iP	18	48	40	ca				iP	18	48	43.0				
	iP	18	48	31.2		-40	+62	-?	eS			48					i			43.7				
	iS			32.3		630	1310										eS			52.7				
5		III Local 5.6 mi. NW - Epicenter about 3 mi. NW of Boulder City																BOULDER DAM						
		Felt in Boulder City															eP	18	48	32.0	8.4 mi.			
																	iS			33.6				
12	iP	21	42	29													iP	21	42	24		+5	+10	+
	iS			50	I trace Regional 110 mi.												iS			41	I - 85 mi.			
12	iP	22	05	17			+		4 other traces of Regional								iP	22	05	13.5				+
	iP			35			+		shocks Δ = 90° on Pierce								iP			31				
	iP			57			+		Ferry record								iP			53				
	eS		14	35													eS		14	14				
	iS		15	03													iS			45				
	eS			38																				
		I Distant - ca 71°																						
12	iP	22	46	53													iP	22	46	54				
	iS		47	10	I trace Regional 85 mi.												e			12				
13	eP	05	14	06													iP	05	14	10				
	eP			18	I Distant												i			21				
13																	iP	05	48	42				
13	e	08	32	55	I trace Distant												e	08	31	53				
																	e		32	53				

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MONTH OF January 194 8.

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
13	i	12	18.8		I Local 5½ mi.																			
13	iP	21	13	02.5	I trace Distant												iP	21	13	05				+
14																	iP	13	05	17.5	I Distant			-
15	eP	00	42	45													iP	00	42	58				
	iP			46													iS		43	30				
	eS		43	09.5													Also 1 other trace at 32 S							
	I trace Regional																and 2 traces at 95 mi.							
15	iP	00	50	26	I trace Distant												iP	00	50	28				-
15	iP	07	14	00	I trace Distant												iP	07	13	58.5				-
16	iP	13	49	06				+									iP	13	49	09				+
																	iS		59	34				
17	iP	04	11	38													iP	04	11	36.5				-
	iP			53.5													i			52				
																	i		21	42				
17	i	05	29.0		I trace 5 mi.																			
17	eP	15	20	33.5													eP	15	20	30				
	iP			41													iP			41				
	i		22	15	I Distant														21	17				
18	eP	03	22	34													iP	03	22	29				
	i		23	29	I trace Distant												i			31				
18	eP	03	55	02													iP	03	54	55				-
18	iP	04	08	22													iP	04	08	22				-
			12	32	I trace Distant												iP		12	36.5				

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No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
18	iP	18 11 51	1.5			-							iP	18 11 49		+		-
	i	12 03											i	58				
	e	20 55											eS	21 25				
	eS	21 19																
	I Distant																	
18	eP	19 07 18	Trace Distant										i	19 07 17				
19	e	05 11 43											iP	05 11 50				
	i	12 34	Trace Regional										iP	12 02				
													iS	56				
19	e	14 48 14											i?	14 48 08				
	Trace Regional												iP	25				
													i	27.5				
19	iP	22 02 58.1		-25	+50	+?												
	iS	59.3				150												
	II Local 6 mi. NNW?																	
19	iP	22 29 50.5				-							iP	22 29 53.5				-
	Trace Distant																	
19													iP	23 55 30				-
20	iP	16 15 03											iP	16 14 26				
	i	16											iP	15 06.5				
20							i	20 52.0		I Local 8 mi.								
21													iP	12 36 06				+
													iP	08		+		
													eS	24				
													iS	25.5				
														I Regional				
21	i	18 32.0	Trace Local 5 mi.															

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Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
21	iP	23 03 07.5		+3	+5	-20
	iS	08.5				120
		I Local 5 mi. NE				
22	i	04 38.7	Trace 3 mi.			
22	i	04 39.3	Trace 3 mi.			
22						
22	iP	07 55 48				+
		I Distant				
22	i	20 34.8	Trace Local 5 mi.			
23						
23	iP	19 41 41.5				
	e	43 42				
	iP	46	I Distant			
23	iP	21 35 05				
	e	36				
	eS	44	Trace Regional			
23	eP.	23 56 37	I Distant			
24	iP	09 42 33	1.3			+
		I Distant				
24	iP	10 55 54		-15	+46	+135
	iS	54.8			180	
		II Local 4 mi. ESE				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	07 37 39				-
iP	07 55 42		-	+	+
	II Distant - Compression NW				
iP	10 38 33.6		0	+	-
eS	53.1				
	Trace Regional 100 mi.				
iP	19 41 43				
i	43 45				
iP	49				
iP	21 35 04.7				
i	53.2				
eS	59.7				
iS	36 03.0	- 320 mi.			
iP	23 56 36				
iP	09 42 35				+
i	44 11				
i	45 56				

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Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF January 194

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
25	eP	00	40	15.5													iP	00	39	17.5				
	iP			53.5	I Distant												e		49	50				
25	iP	01	39	04.5	1.4			+									iP	01	30	07.5				+
	iP			54.5	1.5												iP			57				
		II Distant																						
25																	i	03	47.4		Trace 7 mi.			
25	iP	06	12	56	0.9			-									iP	06	12	58				
	iP		14	28	1.5												iP		14	29				
		I Distant															eS		21	41				
																	iS			54				
25	iP	22	14	31.4				+									iP	22	14	34.5				-
	i		17	40													i			47				
		I Distant															e		17	38				
25	i	23	46	08.5	Trace Regional					Good time control at Overton							eP	23	46	08				
26	iPn	04	24	38					iPn	04	24	47.0					iPn	04	24	46.3				+
	iP			44					eP			55.6					iP			55.0				
	eS		25	17					iP			56.4					eS			36.3				
	iS			18.5					eS		25	37.5					iS			37.8				
		I Regional 215 mi.							eS			42												
26																	iP	05	16	14	I trace Regional			
26	i	06	31	05	Trace Regional												e	06	31	02				
26																	iP	08	52	51	I Distant			+
26	eP	21	18	37.5													eP	21	18	37.5				
	e		19	33	I Distant																			

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MONTH OF **January** 194**5** **12.**

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
27	i	00 42 15.5							e	00 41 24.5		
	e	16.1							iP	25.2		+
	e	33.5	Trace						iS	48.2		
										I Local 65 mi. ?		
27	e	08 21 03.5	Trace Regional						e	08 20 08		
									iP	21 35		-
27									iP	13 06 04	Trace Distant	-
27	eP	17 52 11.5			eP	17 51 53			e	17 51 58.5		
	i	53 27.5							iP	52 00.5		
		Trace Regional							iP	22		
									e	53 39		
28									iP	07 12 27.9		-? + -
									iS	29.3		
										I Local 7 mi. WNW		
28					iP	11 39 36		-	eP	11 39 40		
28					iP	14 10 32			iP	14 10 21		
					eS	11 11			iP	28.5		
									iS	11 07.5		
									is	10		
28	eP	19 58 20	I Distant		iP	19 58 23			eP	19 58 19		
29					iP	13 43 46		+	ePn	13 43 52.1		
					iS	59			iP	53.7		+
						Trace Local			iS	44 07.8		
29	e	21 19 47	I trace Distant						e	21 20 05		
30					iP	00 09 50						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF January 19[illegible] 13.

Time used is

No.	Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amp/ units E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
	30	iP	09 39 51.7				+	iP	09 39 51					iP	09 39 47.7				
		iP	52.8					iP	53					i	40 00.5				
		e	40 30.3					iP	40 03.6					eS	44				
		eS	32.8					eS	51					iS	47.5				
		I Regional						eS	54										
2	30	iP	13 59 50.6		-10	+42	-	eP	14 00 00.0					eN	14 00 01.5				
		iS	51.6			240	280	eZ	07.3					i	02.9				
		II Local 5½ mi. N.						e	08.7					i	10.0				
		Epicenter in lake basin						i	09.3					iS	10.7				
		3 mi. NW of Boulder Dam							30½ mi.						43½ mi.				
		Felt in Boulder City																	
	30													eP	16 13 25.1				
														e	26.3				
														eS	27.6				
														iS	28.5				
														I Local 13 mi.					
	30							iP	22 05 33					iP	22 05 30				
								iS?	06 18					eS	06 12				
								I Regional											
	31													i	04 54 20				
														iP	55 32				
														iS	13				
														Trace Regional					
	31	iP	06 52 38	I Distant				eP	06 52 45					eP	06 52 41				
	31	iP	09 47 25					iP	09 47 27					iP	09 47 23				
		i	39	I Distant				iP	41.5					iP	38				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . February 1945

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedule throughout February.

In the following report symbol I represents shock with small trace amplitude on record, II represents a fairly well recorded shock and a barely recorded shock is marked "trace", III large trace amplitudes. Local shocks are less than 70 mi., regional shocks from 70 to 700 mi. Regional shocks of unknown distance may be classed as distant.

No.	Date Feb.	G.C.T.	Location of Epicenter
7	16	02h 29m 35.0s	7½ mi. ENE of Boulder Dam
8	16	02h 30m 46.2s	½ mi. E. of #7
9	16	21h 05m 36.7s	3½ mi. E. of Boulder Dam
10	16	21h 28m 39.5s	Tentatively 2 mi. E. of Boulder Dam
11	16	22h 10m 14.9s	3 mi. SE of Boulder Dam
12	17	04h 04m 19.8s	3 mi. W. of Boulder Dam
13	18	13h 17m 38.8s	Tentatively 6 mi. W. of Boulder Dam
14	18	17h 49m 02.4s	7½ mi. N. of Boulder Dam

The following shocks were reported felt in the Lake Mead Region. (Roman numberals are intensity grades as estimated by the Modified Mercalli Scale of 1931).

No.	Date	G.C.T.	Intensity and Description
	7	15:23:05.3	IV at Boulder City, rattled windows and doors. Noted by several in community.
9	16	21:05:32.2	III at Boulder Dam and Boulder City. Shock of short duration.
10	16	21:28:32.1	III at Boulder Dam and Boulder City. Shock of short duration.
11	16	22:10:09.6	III at Boulder Dam and Boulder City. Shock of short duration.
12	17	04:04:14.3	III at Boulder Dam and Boulder City. Shock of short duration.
	23	21:12:59.5	II at Boulder City, mostly earth noise.

Confidential-not for publication.

International Seismological Centre

No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E	N	Z
1							iP	06 28 22					iP	06 28 27				
							e	43	I Regional				eS	48	I Regional 110 mi			
1	i	09 29.7	I - 3 mi.															
1	iP	10 37 54.5	I Regional ?			+	eP	10 37 45.5					i	10 37 57.5				
1	iP	10 42 18.5	I Regional ?			-	iP	10 42 21					iP	10 42 21				
		Probably separate shock																
1	iP	10 48 59				-?	eP	10 49 01					eP	10 49 01				
	eS	59 37					iP	05					iS	59 37				
		I Distant ca 86°											eS	11 00 11				
1	eP	11 39 59					eP	11 40 04					eP	11 40 06				
	iP	40 02.5	I Regional ?															
1	iP	12 26 49.5					iP	12 26 51.5					eP	12 26 51.5				
	iP	51	0.9										iP	55				
	iP	27 00.5											e	37 12				
	eSKS	37 26					eSKS	37 27					eSKS	26				
	eS	59					eS	59					eS	57				
		II Distant - ca 90°											e	38 24				
													e	39 06				
1	eP	17 27 44	Trace Distant															
1	iP	23 23 51					iP	23 23 50					iP	23 23 53				
	iP	24 10	I Distant				iP	24 09					iP	24 13				
2	eP	01 45 28					e	01 45 36										
	e	47	I trace				e	49										
2	eP	02 08 54.5	I Distant				eP	02 08 52					eP	02 08 55				
													i	58				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1945 2.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
2													iP	07 02 38		-?	+?	+
													eS	55				
														I Regional - 85 mi.				
2	i	20 47.9	I Local 5 mi.															
2	eP	21 46 32					iP	21 46 38					e	21 46 27.5				-
	iP	36.5	I Distant										eP	31.5				
2	eP	23 36 30					iP	23 36 33.5					iP	23 36 29.5				
	iP	34.5	I Distant															
3	i	08 43 58					i	08 43 55					iP	08 44 02				
	iP	44 05					iP	44 03.5					iP	10				
	i	07					iP	05.5					iP	13.2				
	eS	55					iS	51					eS	45 09.2				
		Trace Regional					iS	53.5	I Regional									
3	iP	15 13 07					iP	15 13 02					iP	15 13 10.5				
	iP	18.5	I Distant				iP	12	I Distant				iP	22				
3	iP	19 14 40					eP	19 14 51					iP	19 14 43.5				-
	iP	50	I Distant										i	53.5				
4	iP	15 58 22	I Distant				iP	15 58 22				+	iP	15 58 25				-
4													iP	17 40 47	I Distant			
4							iP	23 17 23.5	I Distant			-	iP	23 17 12				-
5	iP	05 49 48	I Distant			-	iP	05 49 47.5				-	iP	05 49 51.5				-
5							iP	08 11 11.5	I Distant				iP	08 11 07.5				
5	i	09 09 08					iP	09 09 10					iP	09 09 18.5				
	i	28					iS	34					iS	46.5				
		Trace Regional						I Regional - 120 mi.						I Regional				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1945

Time used is 5 3.

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
5	i	23 15.8			-	+															
		I Local 5 mi.																			
6	e	05 19 20													e	05 19 25					
	i	20 21	Trace Distant												i	30 04.5					
6								iP	06 56 00.5				+								
6	i	18 39.4	I Local 7 mi.			-															
6	iP	19 14 24	1.9					iP	19 14 25	1.7					iP	19 14 20	2.0			+	
	i	15 45	I Distant																		
6	i	19 22.0		+?	+15	-															
		I Local 7 mi.																			
6	i	22 57 09.2						i?	22 57 27.5						iP	22 57 16.2	0.4			+	
	e	58 05.7				-		iS	58 25						iP?	36.7	0.8				
		I Trace Regional							I Regional						eS	58 24.2					
7								eP	00 25 37	I Distant					iP	00 25 44				+	
7	i	00 33.9	I Local 7 mi.																		
7	i	03 05.2	I Local 4½ mi.																		
7															iP	06 08 31				+	
															iP	32					
															iS	48.5	I Regional				
7	eP	07 39 26.5	1.4	I Distant											iP	07 39 23				-	
7	0	15 23 05.3													iPN	15 23 18.0					
	iP	06.7		+10	-18	-140									iPEZ	18.45					
	iS	07.6			350	470									iS	26.8					
	i	08.0													i	27.7					
		II Local 5 mi. SE - Epicenter 4 to 5 mi. SE of Boulder City.														44½ mi.					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1945 4.

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
7	i	15	23.4		I aftershock																			
7	i	15	27.7		I aftershock																			
7	iP	15	45	08.2		+10	-13	-160																
	iS			09.1				285																
	II - aftershock																							
7	iP	16	41	32.3		+6	-15	-																
	iS			33.2				190																
	II aftershock																							
7																	eP	23	01	52	Trace Distant			
8	i?	00	00	55.5																				
	i		01	22																				
	i			40.5	Trace Regional																			
8	iP	02	05	54													iP	02	05	56.5				+
	i		07	55													i		07	57				
8																	i	07	50.3					
																	Trace Regional - 95 mi.							
8	i	13	16.0		I Local 5? mi.																			
8	iP	14	08	05.5				-									iP	14	08	08				
	iP			17	1.4 I Distant-												iP			19.5				
8	iP	14	12	13													iP	14	12	15				
	i			22.5	I Distant												i			24				
8	iP	14	49	32				-									iP	14	49	34				
	i			41.5	Trace Distant																			
8	iP	16	39	05		+	+15	-																
	iS			06.4																				
	I Local 7 mi. NNE																							

M-1073 International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 194 5 5.

Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
8	0	18 13 51.1		+10	+28	-92
	iP	53.1				
	iS	55.5				150
	II Local 7 mi. NE - Epicenter about 3 mi. N. of Boulder Dam					
9	i	00 43.8			+	-
	I Local 7 mi.					
9	iP	02 11 38.8				+
	iS	41.0	I Local 11 mi.			
9	i	03 37.1				+
	I Local 11 mi.					
9	iP	03 41 36				
	I Distant or Regional					
9	i	09 10.2	Trace Local 11 mi.			
9	i	09 15.2	Trace Local 10 mi.			
9	i	11 51.0	Trace Local 11 mi.			
9						
10						
10	iP	05 09 38.3				
	iP	41				
	iP	57.2				
	iPP	12 18				
	i	54				
	eS	19 13				
	eS	29				
	iP'P'	37 58				
	III Distant - 008 41.5° N., 142.0° E; O = 4:57.9, Δ = 5220 mi.					

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
eP	03 41 38				
iP	03 03 24				+
iP	05 09 37				
iP	39.5				
iP	53.5				
iPPP	14 09				
iS	19 17	2.8			
iSKS	20 02	2.8			
iP'P'	37 24				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	18 14 03.1				
iS	11.6				
	42 mi.				
iP	02 11 46.4				
iS	54.5	38½ mi.			
iP	03 41 37				
iP	13 52 10.5				-
ie	05 09 39				
iP	40		+	-	+
iP	42.5				
iP	56.5				
eS	19 09				
iS	21				
i	22 39				
i	33 49				
i	36 49				
iP'P'	37 07				

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1945 6.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
10	iP	05 24 11					iP	05 24 09				+	iP	05 24 12				
	i	21											i	24				
	I Distant																	
11	iP	01 32 42					eP	01 32 40					iP	01 32 43				
	iP	52					e	48					i	51.5				
	I Distant or Regional						iP	53					iP	55.5				
11	iP	03 48 21					iP	03 48 19					iP	03 48 22.5				
	iP	38					i	28					iP	39				
	I Distant or Regional						i	35										
12	eP	16 36 46					eP	16 36 47					iP.	16 36 43		+		-
	iP	48					iP	49					iP	37 04				
	iP	37 02	I Distant				i	05										
13													iP	11 15 00	Trace Distant			
13	iP	11 37 27.5					iP	11 37 23.5				+	iP	11 37 22.5				+
	I Distant																	
13	iP	12 19 47					eP	12 19 50.5					iP	12 19 49.5				+
	I Distant																	
13	eP	13 06 17					eP	13 06 19					iP	13 06 17				-
	Trace Distant																	
13	iP	13 35 45.7					e?	13 35 50.2					iP	13 35 45				+
	i	36 08.7					iP	52					iP	50				
	eS	38 03.7					i	37 50					e	37 16				
	iS	11.7					eS	38 14					eS	49				
	II Regional						iS	21					iS	38 09				
														III				
13													iP	20 38 57				
													iP	39 21				
														Trace Distant				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1945 7.

Time used is

M-1873-4

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	14	BOULDER CITY	iP	03	03	22.6			+	-
			iP			27.4				
			i			52.1				
			iP			57.1				
			e		04	40.6				
			eS?		05	09.6				
			eS			41.5				
			iS			49.6				
			II Regional Δ = 600 mi.							
	14		iP	21	45	17.4		+10	+15	-70
			eS?			20				
			iS			20.2				100
			I Local 13 mi. NE							
7	16		iP	02	29	39.1		+12	-55	
			iS			41.9				
			0			35.0				
			I Local 14½ mi.							
			Epicenter 7½ mi. ENE of Boulder Dam on W. slope of Black Mtns.							
8	16		iP	02	30	43.1		+12	-40	
			iS			45.9				
			iS			46.2				
			I Local 14½ mi.							
			Epicenter 1/2 mi. E. of #7.							
	16		iP	08	15	58.3				
			eS		16	31.8				
			Trace Regional							

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	14	OVERTON	iP	03	03	14.5				-
			iP			22.1				
			i		03	42				
			i			51.9				
			eS		05	08				
			iS			27				
			III - Δ = 565 mi. Felt throughout central Idaho and adjacent areas. Epicenter about 44.7°N., 115.4° W - O = 0m 3:01:16							
	14									
7	16		iP	02	32	44.8				
			i			45.1				
			e			50.5				
			iS			52.0				
			34½ mi.							
8	16		i	02	33	49.3				
			i			54.8				
			iS			55.4				
			iS			56.0				
			34 mi.							
	16		iP	08	19	09.3				
			eS			58.3				

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	14	PIERCE FERRY	ePn	03	03	21.3			+	-
			iP			25.7				
			eP			43.3				
			iP			51.3				
			eSn		05	00.3				
			eS			29.3				
			iS			38.3				
			III - Δ = 595 mi.							
	14									
7	16		iP	02	29	45.1				+
			i			46				
			i			50.4				
			e			51.7				
			iS			52.2				
			iS			53.3				
			35½ mi.							
8	16		iP	02	33	49				+
			eP			49.9				
			iS			56.1				
			iS			57.3				
			35 mi.							
	16		eP	08	15	00.5				
			eP			09				
			eS			49.5				
			eS			51.5				

M-1073 International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1945 8.

Time used is

No.	Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
	16	iP	15 17 31.2				-	i	15 20 35.5						BOULDER DAM				
		iS	34.0				80	i	41.9										
			I Local 14 mi.					i	43.0					1	15 17 31.2	8½ mi.			
								iS	43.9	34½ mi.		?							
			Epicenter probably same as No. 8																
9	16	0	21 05 32.2					iP	21 08 43.2				-25	iP	21 05 43.25				
		iP	34.8		+60	+26	-	i	48.8					iPN	43.7				
		i	36					iS	51.3	39 mi.			480	iSN	51.2		+12	-	+14
		iS	36.5						BOULDER DAM					iSE	51.6				
		iS	36.7			1700	1080	+iP	21 05 33.2					iSZ	52.2				
			III Local - 9 mi.					iS	33.9	3½ mi.					38.5 mi.				
			Felt at Boulder Dam and Boulder City. Epicenter 3½ mi. E. of Boulder Dam. Surface intersection																
	16	i	21 06.5		II aftershock														
	16	i	21 07.7		I - 5 mi.														
	16	i	21 18.5		Trace														
	16	i	21 19.1		I - aftershocks at 5 to 6 mi.														
10	16	0	21 28 32.1					iP	21 28 43.5					iP	21 28 44.0		+		+5
		iP	35.3		+15	+10	-35	iP	46.0					iP	45.9				+
		i	36.5					iE	46.4			+18		i	50.6				
		iP?	37.5				1200	+i	51.9					iE	52.1				
		iS	37.9					e	53.4					iS	53.5				
		i	39.0					i	54.0	40.5 mi.				iS	54.1				
		iE	39.5						BOULDER DAM						41.5 mi.				
			III Local 11 mi.					eP	21 28 32.6										
								eS	33.6										
			Epicenter tentatively 2 mi.					iS	34.3	7 mi. ?									
			E. of Boulder Dam. This has the appearance of 2 shocks about 2 seconds apart. Felt at Boulder City. Dam.																

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1945

Time used is 9.

M-1073-4

No.	Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
	16	i	21 28.9	I - 5 mi.															
	16	i	21 32.9	Trace - 5 mi.															
	16	iP	22 00 05.8			0	-	i	22 00 14.1					i?	22 00 14.2+				+
		eS?	07.3					e	21.1					i	14.6				
		iS?	08.1				150	i	22.9	40½ mi.				iE	16.8				
		II Local 11½ mi.							BOULDER DAM					i	20.9				
								i	22 00 04.3					i	21.9				
		Epicenter probably same as No. 10												i	22.5	41 mi.			
11	16	iP	22 10 12.7		+38	+10	-105	iP	22 10 21.3		-8		-	iP	22 10 21.15		+12	-	+25
		i	13.7					i	27.6					i	28.75				
		iS	14.9					e	29.4					iSEN	29.2				
		III Local 11 mi.						i	32.1	41 mi.				iS	29.6				
									BOULDER DAM						40.7 mi.				
								iP	22 10 10.8										
								i	11.4										
		Epicenter 3 mi. SE of Boulder Dam.						Felt at Boulder Dam and Boulder City.											
	16	i	22 36.7	Trace 5 mi.															
	17	iP	03 49 23.9				-												
		i	25.9																
		i	26.5				70												
		I Local 10 to 13 mi.																	
12	17	iP	04 04 17.2		+15	-25	-50	iP	04 04 25.7					iP	04 04 25.6		+16	-10	+33
		i	18.9					e	31.8					iS	33.4				
		iS	19.2					eS	33.4	39.5 mi.				iS	33.6				
		i	19.8		880		1470		BOULDER DAM					i	34.05				
		III Local 10 mi.						iP	04 04 14.4					i	34.3				
								iS	15.5	5½ mi.					39.2 mi.				
		Epicenter 3 mi. W. of Boulder Dam.						Felt at Boulder Dam											

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1945 10.

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
17	iP	04 06 18.2				-															
	i	19.7																			
	iS	20.6				140															
	I + Local																				
17	i	04 08.1	I Local - 12? mi.																		
17	eP	04 50 32						e	04 50 55.5												
	I Distant							iP	51 05.5												
17	i	05 19.4	I Local 10 mi.																		
17	i	18 54 57.5						iP	18 55 01						eP	18 54 59					
	i	55 09.5							I Distant												
17	eP	22 47 30						i	22 47 30						eP	22 47 33					
	i	41.5						i	43						iP	48					
	iP	46	1.3					i	48												
	I Distant																				
18	e	06 54 10.5						iP	06 54 14.5	2.5			-		iP	06 54 08.5					
	eP	13	2.0												e	07 00 37					
	I Distant																				
18	iP	10 19 45.5			-?	+		eP	10 19 45						iP	10 19 48					
	i	54.5						i	20 03						iP	57					
	eS	29 24						iS	29 23						iP	20 18					
	e	30 00						eS	30 11						iS	29 31					
	I Distant - Δ = ca 75°														i	51					
															i	30 02					
18	i?	11 01 47																			
	i	02 01																			
	i	33																			
	Trace Distant																				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 194[illegible] 11.

Time used is

No.	Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
13	18	0	13	17	33.2				?	iP	13	17	44.5				?	iP	13	17	43.5		40	+	-
		iP			36.5					eZ			50.8					i			50.4				
		e			38.1				340	iN			51.8					iS			50.9				
		iS			38.8					iS			52.4						I - 36½ mi.						
		II Local 11½ mi.									39 mi.														
		Tentative epicenter 6 mi. W. of Boulder Dam.																							
	18	eP	13	23	02.5	I Distant				eP	13	23	04					eP	13	23	03.5				
	18	i	15		00.4	Trace 5 mi.																			
14	18	0	17	49	56.1		-13	+16	-45	iP	17	50	05.6		-	-10	-105	iP	17	50	07.8		+20	+20	+75
		iP			59.7					iS			12.2					i			08.8				
		i			00.9					iS			12.8					i			15.1				
		iS?			02.1						II Local - 33.3 mi.							i			15.5				
		i			02.4						BOULDER DAM							iS			15.9				
		III Local 12½ mi.								iP	17	49	58.6						III 41 mi. Beginning may be obscured in heavy disturbance caused by wind.						
										iS		50	00.3	8.8 mi.											
		Epicenter near lake shore 7½ mi. N. of Boulder Dam.																							
18										iP	18	27	02.5				-								
											I Distant														
19		i	20		45.1	Trace 7 mi.																			
20		iP	09	37	17.7					iP	09	37	04.6					iP	09	37	00.5		-	-	+
		iS		38	19.4					e		38	09.6					i			04				
		I Regional								i			34.6					e		38	23				
20		eP	12	05	11.5	I Distant				eP	12	05	10					eP	12	05	16				
20		iP	15	49	45													iP	15	49	41				
		I Distant																e		59	34				
20										iP	17	27	03.5	I Distant				iP	17	27	11				

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 194[illegible] 12.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
20							iP	18 14 31	I Distant				iP	18 14 34				
21							e	09 36 34					eP	09 36 33				
							e	46					eP	41				
21													iP	12 32 59.5				
21	iP	19 27 58.1		+?	+15	-	iP?	19 28 03.1					iP	19 28 05.8				
	i	59.3					i	04.0					e	13.3				
	iS	28 00.7						30 mi.					iS	13.9				
		I Local 13½ mi.												39.5 mi.				
		Probable epicenter in Callville Wash 10 mi. N. of Boulder Dam.																
22	eP	03 35 13.5					iP	03 35 19.5				-						
		I Distant					e	40 16										
22	iP	18 29 42	Trace Distant															
22	iP	21 56 31					iP	21 56 22.8					iP	21 56 26.2		-		-
	iS	57 19.4					iP	29					iP	37.2				
		I Regional					iS	57 18					i	57 15				
													iS	32.5	II			
22	iP	22 55 03.5					iP	22 55 03					iP	22 55 06				
		I Regional or Distant																
23	eP	02 09 06.5	I Distant				iP	02 09 05.2					iP	02 09 09.5				
23							iP	04 11 58.5	Trace Distant				iP	04 12 01				
23	iS?	05 27 22					iP	05 27 08					iP	05 26 58.5				
		I Local or Regional					iS	03.7	II				eS	27 15.5				
23							iP	12 00 46.5					iP	12 00 34.5				
							eS	30.2					iP	56.5				
								Trace					eS	01 27				

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 194 5 13.

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
23	e	18	26	12													i	18	26	06				
	e		30	05	Trace Distant												i		29	56				
23	iP	21	13	00.9		+6	+12	-60		Lost in Local disturbance							iP	21	13	11.7				
	iS			01.9						BOULDER DAM							iS			19.9				
	iS			02.4				650	iS?	21	13	01.5					i			20.4				
	III Local 5 mi.									4? mi.							i			21.4	Trace			
	Probable epicenter 1 or 2 mi. S. of									Boulder Dam								42½ mi.						
24	eP	05	16	39													i	05	16	22.5				+
	Trace Distant																iP			42.5				
25	i	02	17.6		Trace 15 mi.																			
25	eP	10	51	43.5	Trace Distant												eP	10	51	50				
26	eP	15	45	16	Trace				e	15	45	25					eP	15	45	16.5	I Distant			
26																	iP	16	23	42.5	1.8 I Distant			
26	eP	17	27	45.4																				
	iP			47.2	I Distant																			
26	iP	20	16	04					iP	20	15	58.5					iP	20	16	01				
	iP			15.5	1.0				iP		16	14.5					iP			18				
	I Distant																i		19	05				-
26	iP	22	26	56	1.0	+	-		iP	22	26	56.5				-	iP	22	26	58.5				-
	iPP		30	14					iPP		30	14					iPP		30	05				
	eSKS		37	17					eSKS		37	21					eSKS		37	27				
	eS			32					eS			33					iSN			36				
	ePKKP		45	15					eScS			53					eScS			51				
	eP'P'		53	04	1.5				ePKKP		45	14					iP'P'		53	16				
	II Distant ca 85°								iP'P'		53	19												

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

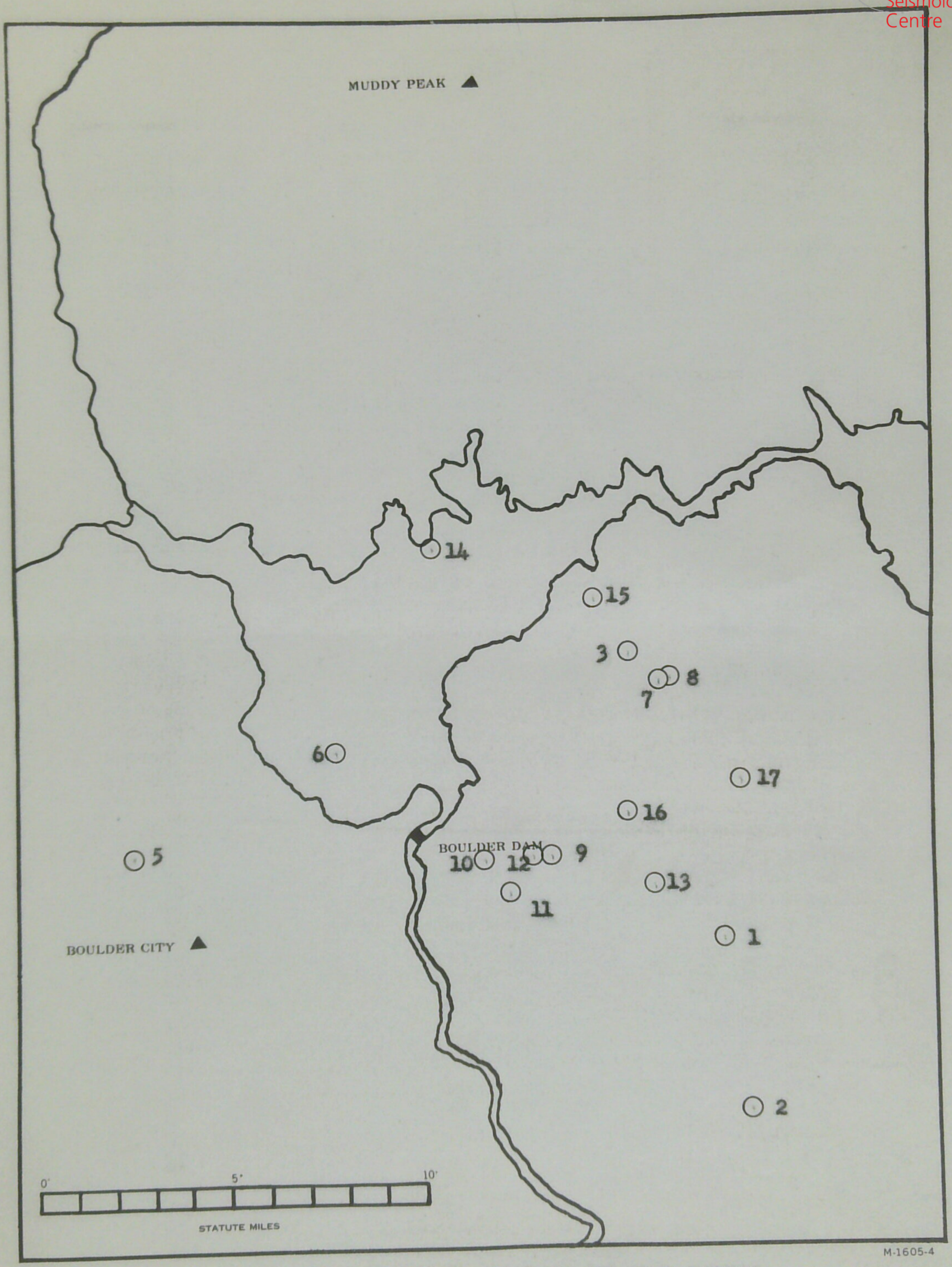
Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF February 1943 14.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
26	iP	23 26 56.5				-	iP	23 26 57				-	i	23 24 07				
		Trace Distant											iP	26 59.5				
27	iP	03 17 42.5				-	iP	03 17 42.5				-	iP	03 17 45				-
		Trace Distant											i	25 31				
27													eP	06 42 59				
27	iP	07 22 04.3	1.2				iP	07 22 06				-	iP	07 22 01				
	e	30 06					eZ	30 48					e	30 26				
	eS	31 03	4				eS	31 09					iS	46				
		I Distant -	ca 69°				ePS	35					e	31 34				
													e	53				
													eL	33 09				
27	e	09 09 10	Trace Distant				iP	09 08 07				+	iP	09 08 03				-
								09 21.5					i	09 06				
27	e	13 24 28											iP	13 17 35				
		Trace Distant											e	18 35				
													e	25 24				
													i	31				
27	i	16 31.0	Trace Local 5 or 11 mi.															
28	eP	03 08 29.5				+	eP	03 08 29					iP	03 08 32.5				
		I Distant					i	11 39					i	11 42.5				
28	iP	13 01 10.5	1.0			+	iP	13 01 09.5				+	iP	13 01 13			-	+
	i	03 34	I Distant										e	10 00	II			
28													eP	17 24 17	I Distant			
28							iP	18 46 49										
							eS	51.3	II Local 11½ mi.				NE?					
28													iP	20 45 08	I Distant			

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TENTATIVE EPICENTERS IN THE LAKE MEAD REGION
January, February, March
1945 Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF MARCH 1945

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
1	eP	02 11 42	I Distant															
1							eP	03 08 56										
1	iP	06 30 58.7					eP	06 29 59.2										
	i	01.9																
		I Local - 16 mi.																
1	iP	08 34 25.8		+5	+12	-												
	iS	26.8	I Local															
1	iP	08 45 55.1		+24	+50	-	i	08 46 15.3					1	08 46 05.5				
	i	55.8					iE	16.3					iS	13.9				
	iS	56.1											iS	14.6				
		II Local - 5 mi. NW - Probably Memenway Wash											iS	15.6				
1	iP	11 21 02.6					iP	11 21 11.5					iP	11 21 07.7				
	eS	22 11.9					eS	22 30.6										
		I Regional																
1	iP	20 17 05.9																
	iS	07.4																
		Trace Local - 7 mi.																
2	iP	04 45 03.5		-	+64	-230	iP	04 43 32.5					iP	04 45 13.4				
	iS	04.8											iS	21.1				
		II Local 7 mi.																
2	iP	08 36 59.6				+10												
	iS	37 00.7				90												
		I local																
2	e	09 16.0	I - 7 mi.															
2	eP	11 15 55.3																
	iS	56.6				40												
		I Local																

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF 194

Time used is MARCH 5

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International Seismological Centre

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
2	iP	17	06	48.5				60																
	iS			49.8																				
	I Local																							
2	iP	19	46	10.5				-									iP	19	46	12.8				
	i		47	59																				
	I Distant																							
2	iP	19	54	16.4				-	iP	19	54	16.8					iP	19	54	18.6				
	e		56	08													eS		56	13.0				
	i	20	03	50																				
	e	20	04	04																				
	I Distant																							
3	iP	00	30	28.6			+30	-215																
	iS			29.8																				
	I Local																							
3	iP	07	20	50.4				-																
	iS			51.8																				
	I Local -7 mi.																							
3	eP	14	14	06	Trace Distant																			
3	iP	17	42	33.0																				
	iS			33.7																				
	I Local																							
3									iP	17	57	02.9												
									iS			05.2												
4	eP	21	02	14					iP	08	32	10.6					iP	21	02	05.2				
	iS		03	08.2	I Regional				iS			17.4	I Local				iS		02	32.7				
4	iP	23	40	57.2					iP	08	06	46.8					iP	23	40	53.2				
	e		41	44.5					i			49.8					i		41	01.3				
	I Distant								I Local								iS			05.7				

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF MARCH 1945 3.

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
5	iP	09	31	17.5				
	i		32	11				
	I Distant							
5	eP	10	44	40.4				
	iS			43.2				
	I Local							
5	eP	12	28	50	I Distant			
6	iP	03	34	07	I Distant			
6	iP	11	52	28.8				
	iS			30.1	I Local			
6	iP	13	03	10.3				10
	iS			11.1				20
	Trace Local							
6	iP	13	17	33.8				10
	iS			35.3				60
	I Local 7½ mi.							
7	iP	17	18	59.9				
	I Distant							
7	iP	21	52	37.5				-60
	iS			39.0				
	I Local							
8	iP	14	19	06.7				
	I Distant							
9	iP	00	32	58.9				-
	i		34	20.2				
	I Distant							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	08	00	27.0				
iP		46	03.3				
iS			06.9				
iP							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	10	44	48.2				
iS		45	16.4				
iP	17	19	03.1				
iS		19	13.5				
iS	21	53	01.0				
iP	00	32	53				
i		33	01.9				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF MARCH 1945

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
9	eP	08	51	40	I Distant																			
9	i	14	13	20																				
	e			28	Trace Distant																			
10	eP	01	01	20	Trace Distant																			
10	iP	06	31	18.6				1																
	iS			19.7				2																
		Trace Local																						
10	iP	07	35	47.9																				
	iS			49.1																				
		I Local																						
10	iP	09	14	51.9													eP	09	14	50.8				
	eS			34.7													i		15	01.8				
		I Regional															iS			53.5				
10	i?	13	49	29.4	Trace Regional												eP	13	49	24.5				
10	iP	23	08	59.9				3									iP	23	09	12.1				
	iS		09	15.2													iS			37.1				
		I - near Regional																						
11	iP	00	20	41.8				1									iP	00	20	48.9				
	iP			46.9													i			59.2				
	iS		21	18.3				8									iS		21	34.8				23
		II Regional																						
11	iP	05	25	48	I Distant			3	e	05	27	53					iP	05	25	47.0				
11	iP	08	10	21.4				5																
	iS			22.4				18																
		I Local																						

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF MARCH 1945 5.

Time used is

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
11	eP	18	03	27.7				
	e			40.6				
	I Distant							
11	e	18	14	29.8				
	e			39.9				2
	May be part of above							
11	iP	20	16	53.5				1
	e		17	08.9				
11	iP	21	49	48.7				2
	eS		59	43				
	eS	22	00	19				
	I Distant							
12	iP	03	48	57.6				20
	iS			59.3				
	I Local							
15 12	0	08	18	13.9				
	iP			17.6		+30	+50	-180
	iS			20.2				
	II Local 13 mi.							
	Epicenter 7½ mi. NE of Boulder Dam							
12	iP	09	20	24.8				20
	iS			25.9				
	I Local							
12	iP	10	25	41				10
	iS			44.3				20
	I Local							
12	iP	10	33	37.8	I Distant			

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	18	03	28				
e	18	14	38				
e	20	16	52.4				
i	21	50	48.4				
iP	08	18	23.2			+	
eS			29.7				
32.5 mi.							
iP	10	33	38				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	18	03	27.7				
eS			50.8				
eP	18	14	26.5				
eS			36.3				
i	20	16	55.9				
iP	21	49	51.0				5
iS		50	02.9				19
eL		52	45.8				
iP	08	18	24.2		-		-
iS			31.2				
iS			31.8				
36 mi.							
iP	10	25	47.2				
iS			53.7				
iP	10	33	40.5				

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF MARCH 1945.6.

Time used is

M-1073-4

International Seismological Centre

		BOULDER CITY							OVERTON							PIERCE FERRY						
			Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
Nov. Date		Phase	h	m	s	T	E	N	Z	Phase	h	m	s	T	E	N	Z	Phase	h	m	s	T	E	N	Z
	12	iP	11	03	55.4				10	e	11	04	58.6					iP	11	04	00.1				
		iS			24.9				20									i			07.9				
		e			42.3	I Regional												i			09.6				
																		iS			45.6				
	12	iP	13	57	45.7				20									iP	13	57	52.5				
		iS			48.2				20									iS		58	00.4				
16	13	0	00	28	43.0					iS	00	28	01.4					iP	00	28	53.5				
		iS			49.3					iS			02.1					i		29	01.2				
			I Local - 13 mi.									38 mi.								37 mi.					
			Epicenter 5 mi. E. of Boulder Dam																						
	13	eP	05	08	49	I Distant																			
17	13	0	07	31	27.1					i	07	32	44.5					iP	07	31	36.7				
		iP			31.2				20	i			45.1					iS			43.3				
		iS			34.1				80	i			48.9					iS			44.4				
			I Local 14½ mi.								36 mi.								33½ mi.						
			Epicenter 8 mi. E. of Boulder Dam																						
13		iP	09	11	22.2				20	iP	09	11	22					e	09	11	23.7				
13		iP	23	18	49.9				10	iP	23	19	02?					iP	23	18	57.2				
		i		19	50.8				110	e			12?					i			59.4				
		i			08.7				20	iS		20	36?					iS		19	24.4				
14		iP	01	50	29.2				40	iP	01	50	30					iP	01	50	24.9				
		e		51	03.6																				
14		iP	13	01	33.5				40																
		iS			35.0	Local																			
16		iP	03	36	44.3																				
		iS			56.2	Trace Regional																			
18		iP	00	06	06.9				6	e	00	06	06												
		e?			29.8																				
		eS		12	42	I Distant																			

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF MARCH 1945 7.

Time used is

International Seismological Centre

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
18	iP	00	34	21.6				2	eP	00	34	25												
	e			30.5																				
	eS		45	19																				
	eS			47																				
	I Distant																							
18	iP	03	44	05.8	Trace Local																			
18	e	08	18	26.7	I Distant				e	08	18	28					e	08	18	22.1				
18	iP	16	19	10	I Distant																			
18	iP	19	01	31	I Distant				eP	19	02	28					iP	19	01	35.6				
	eS		11	53																				
18	iP	23	28	28	I Distant																			
19	iP	08	06	20.3				1																
	iS			21.1				7																
	II Local 4 mi.																							
19	iP	13	30	45.5	I Distant																			
19	iP	20	45	45.5	I			20									iP	20	45	17.7				
20	iP	03	01	20	I Distant			-									iP	03	01	19.3				
20																	eP	08	12	49	I Distant			
20	iP	21	55	43.0		-40	-110	-330	iP	21	55	52.5					iP	21	55	50.6		165	-230	-810
	iP			48.3						in train disturbance														
	iS		56	13.7			1500+																	
	III Regional																							
	160 mi. SSW Boulder City - Coachella Valley ?																							
23	eP	23	33	10	I Distant																			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF MARCH 1948.

Time used is 5

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24	iP	14	30	41.5	I Distant			+																
24	iP	18	43	25.5	I Distant																			
26	iP	13	03	44.0																				
	iS			45.3																				
	I Local 6½ mi.																							
27	iP	18	42	35.6																				
	i			39.5																				
	eS		43	12.7																				
	I Regional																							
29	i	01	53.9		I Local - 3 mi.																			
29	iP	04	04	53.9		-8	-18	-48									iP	04	05	01.1				
	i			58.7													i			07.8				
	iS		05	26.7													iS			31.6				
	III Regional																							
29	iP	09	03	57.9	I Distant		-2										iP	09	04	30.8				5
29	iP	09	58	22			-										iP	09	58	28.8				
	Trace Regional																i			35.4				
																	i			41				
29	eP	10	18	19	I Distant																			
29	iP	17	53	50.5																				
	i			56.4																				
	i		54	03.2																				
30	i	20	31	41																				
	i		33	00																				
	I Regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF MARCH 194 5 9.

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
Day of Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
31	e	07	02	54																				
	i		15	08																				
	i			19																				
	Trace Distant																							
31	eP	10	00	08																				
31	iP	13	28	57.4													iP	13	28	57.8				
																	e		29	33.0				
31	i	16	13	32	Trace Distant																			
31	e	16	40	46	Trace Distant																			
31	i	17	13	32	Trace Distant																			
31	eP	18	52	04.2													iP	18	52	05.5				
	e		54	07.9													iS		54	01.5				
	i	II Regional																						
31	iP	19	28	55.4													iP	19	28	55.7				
	i		29	26.5													i		29	01.8				
	e		30	10.6																				
	II Regional																							
31	eP	21	15	42																				
	I Regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . .APRIL 1945

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedule throughout April.

In the following report symbol I represents shock with small trace amplitude on record, II represents a fairly well recorded shock and a barely recorded shock is marked "trace", III large trace amplitudes. Local shocks are less than 70 mi., regional shocks from 70 to 700 mi. Regional shocks of unknown distance may be classed as distant.

The following shock was located:

No.	Date April	G.C.I.	Location of Epicenter
18	2	13h 24m 30.6s	6 mi. NNE of Boulder Dam

No shocks were reported felt in the Lake Mead Region during April.

Confidential-not for publication.

International Seismological Centre
M-1073

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1945 1.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
1	i	00 57 18.0	Distant			I			i	00 57 22.7	I	
1	e	03 25 19.5	Distant coda			I			e	03 19 19	I	
	e	03 40 35.1							i	24 48.8		
									i	26 40.2		
									e	40 01.5		
1						I			e	05 48 05.6	I	
1	iP	09 15 58.4			i	09 15 14.4			i	09 14 16.6	I	
	iP	59.2				No time signals						
	iS	59.5	I Local S-P=1.1s									
1	eP	10 44 49	I Regional						eP	10 45 07.0	I Regional	
	i	47 01.0	Surface waves						eP	08.0		
									iS	46 43.7		
1									eP	12 32 38.6		
									iS?	34 24.3	I Regional	
1	e	13 42 33.0	I Distant						e	13 41.7	I Distant	
1									e	14 45 40.1	I	
									e	15 47 18.1		
1	iP	23 44 54.7	III ± 5 at Santa		iP	23 46 02.6	No time signal			Indescernible due to wind		III
	i	45 11.6	Barbara Channel accord-									
	i	13.0	ing to Pasadena		i	25.8						
	iP	15.5										
18 2	iP	13 24 27.8			iP	13 24 34.2	Time off		iP	13 24 34.3	I Local	d
	iS	24 30.6			i?	40.4			i	41.3	S-P=7.7s	
	Boulder Canyon?				iS	40.9			iS	41.7		
					iS	41.3	S-P=7.1		iS	42.2		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1945 2.

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
3	iP	05	09	35.2				d	i	05	09	26.4					iP	05	09	28.9	II Regional			
	i			38.3					iP			27.6					iP			29.6				
	iS		10	10.0					i			28.6					iS		09	53.6				
									iS			52.3					i			54.1	(S)?			
																	About 10 miles E. of Lund, Utah							
3	iP	05	49	07.1																				
	i			07.5	I Local 5 mi.																			
3	iP	21	12	17.3	I				iZ	21	12	51					i	21	12	20.8	I Distant			
	Deep - according to Pasadena																							
4.	Some activity but indescernible on 2																i	12	55	13	I Distant			
5.																	iP	08	34	42.2	I			
5									e	18	39	39.2	I deep ?											
5	iZ	23	21	05.4													iZ	23	21	09.5				
6									e	09	41	08	I trace											
6	iP?	15	47	26.2					No time signals								iP	15	47	34.0	II Regional			
	iS		48	05.7													iS		48	23.7				
	iS			06.5	S doubtful																			
6	iP	18	39	31.0	I deep												iP	18	39	26.0	I Distant			
																	e		54	05				
7	i	10	33	05.4	I - weak												iP	10	32	41.2	I Regional			
	e		34	06.3													iS		33	24.9				
																	iS			25.2				
																	Some aftershocks							

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1945

Time used is

International Seismological Centre

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
7	iP	19	19	21.1	I local	+	+										eP	19	19	32.1				
	iS		19	22.4	S?												iS			42.4				
	iS			23.1	SE - 1 mi.												iS?			42.8	Poor S			
7																	eP	21	38	03.8	I Distant			
88	e	01	01	39	I												e	01		11.7	I Trace			
8																	i	14	26	08.5	I Trace			
																	i			12.4				
10	e	01	33	47.9																				
	iP			48.9	I - Japan - according to Pasadena																			
11	e	02	05	40.0	I												e	02	05	48	Trace			
11	e	11	25	03.7	I												eP	11	25	08	I Distant			
12	i	00	29	10.1													iP	00	14	02.3	I Distant			
12																	iP	06	56	00.0	I local			
																	iS			01.1				
12	iP	07	45	12.2	I Local																			
	iS			14.4	S-P=1.2s																			
12																	iP	09	40	14.9	I local			
12	eP	11	39	23.2					12	11	39	03	I				i	11	39	26	I Distant			
12																	iP	14	26	37.8	I Local			
12																	iP	16	53	28.0	I local			
12																	iP	22	57	07.5	I local			
																	iS			08.6				

M-1073 International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 194 5

Time used is

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
13	iP	06	41	49.8	II Regional				iP	06	41	40.3					iP	06	41	47.0	II local or			
	iS		42	09.8	S-P=20s				i			40.8							NE of Boulder		regional			
									i			41.1											
									iS			53	S?										
13	eP	21	24	21.1	I - deep												iP	21	24	23				
	epP		26	21.3	Tonga region ?												ipP		26	24.5				
14																	iP	04	21	06.2	I Regional			
																	iS			23.2				
14	i	07	09	06.5	I				iP	07	08	42.3	I Regional				e	07	08	36	I trace			
									iS		09	06.0					i		09	03.2				
									is			07												
15	iP	02	45	02.4	II				iP	02	45	01.4	II				iP	02	45	04.8	II			
	iPP		47	58					i	03	59	40.7					eS			52.6				
	eS		52	59.3						CGS epicenter 56°N. 0							i	03	07		Surface waves			
	eS			59.9						164°E. (East of Kamchatka)														
	i		59	32																				
	eS	03	07	01																				
15	iP	03	51	06.5	II				iP	03	51	15.5	1.1			d	iP	03	51	09				
	iP			07.0																				
15	iP	18	39	15.4	II local																			
	is			16.5	S-P=1.1s																			
			S.	½ mi.																				
15	iF	19	54	21.2	II				iP	19	54	25.8	II			d	iP	19	54	19.0	II			d
									is		56	42												
	CGS epicenter II - 22.5° N - 108.0° W. (off Mazattan, Mexico)																							
16																	e	04	59	07	1			
																	i			13.7				

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 194 5 5.

Time used is

M-1073
International Seismological Centre

	BOULDER CITY								OVERTON								PIERCE FERRY							
Nov. Oct.	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16		16															e	05	05	.1				
																			05	50				
																			06	00.5	I trace regional			
16																	iP	07	03	11.0	I Distant			
16	i	13	44	18.0													iP	13	44	21.5	I local			
	iS			20.0	I local												iS			28.6				
16																	e	14	26	49				
																	i			58.5	I Regional trace			
16	iP	22	25	55.5	II local												iP	19	19	13.7	I local			
	iS		26	06.7													iS			14.7	Foreshake ?			
17																	iP	02	08	48.5	.4	.6	.8	2.5
																	iS			49.6	II local			
																					Comp. SW			
17									eP	12	26	07	I				iP	12	26	07.5	I Distant			
																	i			25.5				
17	iP	20	16	05.8		+	-	-									iP	20	16	14.2	II			
	iS			07.8	II local	SE	10	mi.	Local interference on Overton								iS			22.7				
																	iS			22.8				
18	iP	04	58	43.0	II Regional				iP	04	58	51.4	II				iP	04	58	51.2	.4	W	S	C
	i			48.8					i		59	01.0					iS		59	00.3	Comp. SW			
	i			50.3					iS			05.7					iS			00.5	Late S?			
	iS		59	19.2					i			23.9									II Regional			
	iS			21.5																				
18	iP	06	18	37.4	I local																			
	iS			38.5	5 mi.																			

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1945

Time used is

M-1073-4 International Seismological Centre

	BOULDER CITY						OVERTON						PIERCE FERRY					
N Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
18	i	10 54 21.3	P?	I weak			iP iS	10 54 13.9 47.6 Region of Utah	I				eP e i	10 54 18.7 24.5 25.1	I			
18													e	14 24.7	I trace distance			
19	iP	04 04 17.3	I Distant				iP	04 04 16.4	I trace				iP	04 04 19.9	I distant			
19													iP iS iS	01 22 36.5 49.0 49.4				
19	iP iS	07 49 17.3 18.3	I local NW 5 mi.															
19	eP e	13 17 05 13 33.3	I Distant COS epicenter - 40°S - 179°E										e	13 17.2	I Distant			
19	iP iS	14 16 02.7 04.0	I local (one about 5 mins. before)															
19	iP iS	14 20 14.2 15.2	I local NW	+	-													
19	iP iS	15 27 18.1 19.1	I local															
19							iP iP	15 39 08.0 08.3	I local									
20	eP iS	00 33 57.7 58.8	I local trace															
20													e	12 43 24 I Regional trace	1.0			

M-1073 International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1945

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
20	eP	22 33 13.3		?	+	+	eP	22 33 22.5				+	iP	22 33 17.2				
	i	26.8	II				i	38.6					i	29.0	II Regional			
	i	47.2					i	42.9	S				i	29.7				
	i	46 53.2					e	47.0					i	32.6				
													i	46 55				
21	e	04 53 23	I Distant				Mexico fore and aftershocks						eP	04 53 23				
	e	54 00											iP	24.1				
													iS	54 45.9	I Distant			
21	e	12 14 10.2					i	12 14 21	I Distant				iP	12 14 11.7	I Distant			
	i	47	I										iS	15 37.8				
21	e	12 48 38	I - Gulf of California (according to Pasadena)										eP	12 48 41.9				
													eP	42.9	I Distant			
21	e	14 25.3	Same as above				e	14 25 28.4					iP	14 25 18.3	I Distant			
21	iP	17 19 06.8	II				iP	17 19 10.0	I				iP	17 19 03.9	1.4	+	-	-
	i	46.5	Same as above											Mexico				
22														from 21 to 30th no accurate time				
22	iP	09 47 04.7	II				iP	09 46 42	deep ?					Several aftershocks recorded at Boulder City and Overton				
		S? other impulses Gulf of California																
22	iP	20 39 09.5		+		-												
	iS	20.5			+													
		I local																

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1945

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
22	iP	22 14 38.7	I					i	22 14 45.1	P?											
	i	15 09.0						i	35 39	Distant shock traces						NO TIME					
	i	16 33	S? aftershock						recorded during 24 hour period												
22	iP	23 25 09.3				d															
	i	30.7				.3															
		I local																			
23	iP	06 35 36.3				d		e	06 35.7	trace											
24	iP	06 16 49.5	I Distant																		
24	e	15 32.5	I																		
24	e	16 46	I - probably part of 15-32 shock																		
26	iP	01 37 43.0	I			e			No time at Overton												
28	iP	02 48 08	I Distant																		
29	eP	20 19 49	I																		
	i	26 08																			
30	iP?	11 25 43	I												eP	11 24 44	I Distant				
	i	44.4	PP or P												iP	46.9					
															eL	11 33.0					
30	iP	17 09 43.4	I - Japan (according to Pasadena)																		
30	iP	17 39 19.6	Deep - Tonga Region			d									eP	17 38 52.9	deep			d	

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT. . . . . MAY 1945

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedule throughout May.

In the following report, symbol I represents an earthquake having a small trace amplitude on the record, II represents a fairly well recorded shock, and III large trace amplitudes. Barely recorded shocks are marked "trace." Local shocks are less than 70 mi. from the station, regional shocks from 70 to 700 mi., and distant shocks greater than 700 mi. Regional shocks of unknown distance sometimes may be classed as distant.

No local shocks were reported as felt, but the shock of May 30 at 8:48 A.M., PWT, should have been felt under favorable conditions.

Epicenters of seventeen local shocks occuring during the month were located. Nine of these were in or near Gregg Basin, two a few miles North of Boulder City, one in the Black Mountains, and five in or near the Virgin Valley, 10 to 15 miles NE of Overton. Some of the last named group were probably deep enough so that part of the paths of travel to the more distant stations, Pierce Ferry and Boulder City, were partly in an underlying medium where P-wave speeds are greater, assumed at 4.1 mi/s as compared to 3.5 mi/s near the surface, and a corresponding S-wave speed assumed at 2.40 mi/s as compared to 2.06 mi/sec. near the surface. The depth to this medium was assumed as 14 mi., which has some support from other data. Supposedly S-wave reflections from Gregg Basin to Boulder City arrive 4.5 to 5 seconds later than the direct S-waves, which indicate the bottom of the granite to be 14 to 15 mi. deep. Granite is defined here as the medium in which the P-wave speed is assumed at 3.5 mi/s. More precise locations of the above named epicenters are given in the text.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 1945

Time used is

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
1	iP	06	08	43.3				-
	ipP		09	15				
	I distant - South America							
1	eP?	08	03	37.5				
	e			40				
	I distant							
1	iP	16	47	02.5	1.5		-	-
	eS		56	57				
	e		57	50				
	I distant - South America							
1	e	23	19	11				
	e			17				
	Trace distant							
2								
2	iP	09	58	32.5				
	iP			33.3				
	iS		59	15.6				
	iS			18.1				
	I regional							
2	i	10	47.4		Trace local - 10 mi.			
2	eP	19	49	57.5				
	iP		50	00.5				
	iP			38				
	eS		52	25				
	eS			33				
	I regional - Felt in Northern California							

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	iP	06	08	47				-
	ipP		09	16				
	eP	08	03	37.5				
	iP	16	47	05				-
	eP	05	43	33.7				
	iP			35.3				
	iS			45.5	I local - 58 mi.			
	i	09	58	32.5				
	iP			34				
	e		59	11				
	eS			20				
	I regional							
	eP	19	49	56				
	iP			58				
	i		51	50				

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	eE	06	08	43				
	iP			43.5		-	-	-
	ipP		09	13.5				
	eS		17	55				
	iP	08	03	42.5				-
	i			52				
	iP	16	47	01		+	-	-
	eS		56	55				
	e		57	43				
	eP	23	15	12				
	eS		19	13				
	iP	05	43	43.2				+
	eS		44	01.2	I regional - 90			
	i	09	58	33				
	iP			43.3				
	iS		59	32				
	iS			35.5				
	I regional							
	iP	19	50	04.5		+	-	+
	i			45				
	eS		52	33				
	II regional							

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Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
2	e	23	58	47													i?	23	58	07				
																	eP			15				
																	iS		59	07				
		Trace regional																Trace regional						
3	i	11	46.1		Trace	local - 5 mi.																		
3	iP	15	28	31				-	iP	15	28	44				-	iP	15	28	34		-	-	-
		I distant																						
4									i	05	24.0		Trace	local - 22 mi.			i	05	24.1		Trace	- 28 mi.		
4	i	10	23	55.1					iP	10	23	56.2												
	iP			57.5					iP		24	00.2					eP	10	24	02.5				
	eS		24	26					eS			32					iP			07.5				
	iS			31													iS			46.5				
	I regional																							
4	eP	13	15	15					eP	13	15	14					eP	13	15	17.5				
	e			44													iP			28.5				
	Trace distant																							
5	eP	02	41	15													eP	02	41	12				
	Trace distant																							
5																	iP	12	42	17.5	Trace regional?			
																	iP			33				
5	iP	13	14	56.5				+	eP	13	14	57					iP	13	14	54.5				
	Trace distant																							
5	eP	14	04	18.5					eP	14	04	22					iP	14	04	22				+
	I distant - SW																							
5																	eP	20	30	36	I distant			
																	e		34	30				
																	e			50				
																	e		36	48				

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Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

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Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
6	iP	07	21	32.0				
	iP			33.3				
	i			49.2				
	iS			52.3				
	Trace regional - 104 mi.							
	Epicenter in SW corner of Utah, about 18 mi. W. of St. George.							
6	iP	08	09	09				+
	Trace distant NW							
6	i?	10	46	35.2				
	iP			41.2				+
	iS		47	10				
	iS			12				
	Trace regional							
6	iP	10	55	19.7				
	iS			24.1				
	I local - 22 mi.							
6	iP	10	57	45.0				
	iS			49.5				
	I local - 22 mi.							
7 19	iP	06	55	13.4		+?		+
	i			14.7				
	iS			15.2				
	II local - 9 mi.							
	Epicenter 4 mi. E of Boulder Dam.							
7	i	07	29.7		Trace local - 5 mi.			
7	i	07	34.0		Trace local - 13 mi.			

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	07	21	21.7				-
e			33.1				
iS			35.0				
Near regional - 67½ mi.							
iP	10	46	51.5				
iP			53.7				
iS		47	31.3				
iP	10	55	19.7				
iS			24.1				
I local - 22 mi.							
iP	10	57	45.0				
iS			49.5				
I local - 22 mi.							
i?	06	55	21.4				
iP			22.0				
iN			22.3				
i			28.4				
iS			29.6				
iS			30.1				
39 mi.							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	07	21	26.4		+2	-6	+
iP			27.8				
iS			42.6				
iS			43.2				
II near regional - 84 mi. NNW							
iP	08	09	12		+		+
I distant							
iP	10	46	42				
i			51.5				
e		47	23				
iS			26				
i	10	55	22				
iP			27				
iS			36.2				
I local - 38 mi.							
iP	10	57	52.1				
eS			59.7				
iS		58	01.7				
I local - 38 mi.							
iPEZ	06	55	21.7		+	?	+
iPN			22.0				
eE			29.3				
iSN			29.7				
iSE			30.0				
iSZ			30.5				
38½ mi.							

LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is

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No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
7									i	07 39.4		+15 +5 +
										I local - 4 mi. W		
7	i	13 13.3	I local - 5 mi.									
8	iP	11 14 04.		+4 +7 +40								
	iS	05										
		I+ local - 5 mi. SSW										
8	i	18 09 39.9										
	iP	41.7			iP	18 09 51.7			iP	18 09 46.5		+
	e	10 22.5			eS	10 35			eP	54.5		
	eS	28							iP	57.3		+
		II regional							iS	10 47		
9	iP	00 51 33.5			0	00 51 17.8			iP	00 51 30.1		
20	iS	44.5			iP	22.9			i	37.7		
					i	24.9			iS	38.9		
					iS	26.5			iS	39.4		
		Trace local - 55 mi.				II local - 18 mi.				I local - 42 mi.		
		Epicenter on W. slope of Virgin Valley about 12 mi. NE of Overton							h = 14 mi.			
9	iP	03 49 00.5			e?	03 48 53.5			eP?	03 48 46		
	i	17			eP	49 00.5			iP	01.5		
	i	50 21							iP	50 27		
		I distant										
9	e	18 28 07							eP	18 27 03		
		Trace regional							eS	56		I regional
9	i	22 02.6	I local - 5 mi.									
9	eP	23 58 21							eP	23 58 18.5		
		Trace distant										
10	iP	02 08 22			iP	02 08 23.5			iP	02 08 20		-
	e	09 23	Trace distant						e	09 23.5		

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Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
10	eP	02 26 46.5		Trace distant					iP	02 26 41.5		
10	e	18 03 37			iP	18 03 43			iP	18 03 39		
	iP	42							eS	12 04		
	iP	47										
	I distant											
10	e	19 13 57							iP	19 13 08.5		
	Trace regional								eS	59	I regional	
11	eP	00 10 37.5							iP	00 10 39.9		
	iP	41.5							i	54.5		
	e	11 01.7							e	11 34		
	eS	13.2							eS	36		
	iS	14.7							eS	II		
	I regional											
11	iP	19 04 36.1										
	iS	38.3		I local								
	i	39										
11	iP	22 04 25.5							e	22 04 21		
	e	05 20.5										
	I distant?											
12					i	03 54.3		Trace local - 18 mi.				
12	eP	07 34 11			iP	07 34 20.7			iP	07 34 16.2		+8 +25
	iP	32			eS	35 45.5			eS	35 23.4		
	e	35 23							eS	32.4		
	eS	30.8										
	II regional - near 32°N, 115°W (Pasadena)											

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Time used is

No. Date	Phase	Time h m s	Period T	Trace Amplitude E N Z	Phase	Time h m s	Period T	Trace Amplitude E N Z	Phase	Time h m s	Period T	Trace Amplitude E N Z
		BOULDER CITY				**OVERTON**				**PIERCE FERRY**		
12	i	07 51 18.1			0	07 51 01.8			eP?	07 51 13		
21	eS	29.5			iP	07.0		-	eP	14.2		
	eS	29.7			i	09.1			eS	23.3		
					iS	10.6			iS	23.7		
		Trace local - 57 mi.				II - 18 mi.				43½ mi.		
		Epicenter along Virgin River about 12 mi. NE of Overton h = 13 mi.										
12	eP	08 03 57.5		+	0	08 03 41.8			iP	08 03 54.3		
22	iP	57.7		+ -	iP	47.1			iP	54.9		
	iP	58.5			i	49.3			e	04 01.9		
	eS	04 08.8			iS	50.8			eS	02.3		
	iS	09.8							iS	03.4		
		II local - 55 mi.				III local - 18½ mi.				II - 43 ½ mi.		
		Epicenter near #20 - 12 mi. NE of Overton h = 14 mi.										
12	i	08 43.3 I local - 4 mi.										
12									e	17 05.6 I local - 42 mi.		
12									i	22 20.5 I local - 4 mi.		
12-13	8 local shocks - ea 5 mi. - I											
13	eP	01 12 35.5							eP	01 12 46		
	eP	42							eP	51.5		
	eS	13 10.5							eS	13 29		
		I regional										
13									i	07 09.6		+
										I local - 5 mi.		
13	i	09 33 00.7			iP	09 32 49.5			iP	09 32 56.8		
23	i	12.6			i	51.7			eSZ	33 05.5		
					iN	53.2			eSEN	06.0		
		Trace - 58 mi.			iSE	54.3				I - 44 mi.		
						II local - 18½ mi.						
		Epicenter along Virgin River - 13½ mi. NE of Overton h = 12½										

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Time used is

BOULDER CITY

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	13	eP	20	30	40				
		e		34	43				
		e		35	27				
		II distant - probably SE							
	13								
	15	iP	02	48	53.2		+	+	-
		eS			55.4				
		eSN			55.8				
		Trace local - 11 mi. NE							
	15	eP	03	49	23.5	1.3			
		Trace distant							
	15								
	15								
	15	i	12	06.9					
		Trace local							
	15								
	15	iP	14	35	02.5				
		i			09.4				
24		iS			10.5				
		41 mi.							
		Epicenter - W. side of Gregg Basin. 6.2 mi. W by S of Pierce Ferry							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	20	30	45				
e		34	46				
e			58	10			
i	12	08.8					
Trace - 20 mi?							
iP	14	35	00.7				
iP			00.8				
e			06.4				
e			07.4				
iS			07.9				
I local - 35.4 mi.							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	20	30	36				
e		34	28	11			
eP	21	15	32				
e		19	23				
iP	03	49	27				
i	04	19.5			-	+	-40
II local - 6 mi. NW							
i	08	08.9			-25	-8	-140
II local - 6 mi. WSW							
0	14	34	50.7				
iP			52.5		+11	+8	+39
i			53.5				
iS			53.8				
III local - 6.5 mi. WSW							

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Time used is

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No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
15	iP	18	28	43.4		+?		+	iP	18	28	52.7					i	18	28	52				+5
	eS		29	00					eS		29	17.7					iP			56.6		-12	-12	-45
	iS			02				250									iS		29	24				420
	II regional																II							
15	iS	20	23	43.3													iP	20	23	24.6		-90	-20	-420
																	iS			26				
																	III local - 7 mi. NSW							
15-16	3 traces local - ca 10 mi.								2 local shocks - I 30? mi.															
16	i	02	25	54.2					i?	02	25	52.8					iP	02	25	44.5		+10	+5	+25
25	e		26	00.2					eS?			58										-164	-33	-
	eS			02.4					iS			59.9					iS?			45.8		1240		
	i			07.4						I	35.5 mi.						III local - 6½ mi. W							
	I local - 41 mi.																							
	Epicenter same as #24																							
16																	iP	02	54	45.9		-59	-13	-
																	iS			47.2				
																	II local - 6½ mi. W							
16									Although only two of this swarm has been definitely located, evidence points that all have nearly the same epicenter.								iP	04	18.8			-13	-	-
																	I local - 6½ mi. W							
16																	eP	09	03	56				
																	Trace distant							
16																	iP	09	26.2			-22	-5	-
																	II local - 6½ mi. W							
16																	iP	11	02	47				+
																	I distant							

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Time used is 9.

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No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
16									iP	12 19 17.5		-70 -25 -
									i	18.4		
									iS	19		
										II local - 6½ mi. WSW		
16									iP	14 33 12.4		-25 -5 -
									i	13.2		
									iS	13.7		
										II local - 6½ mi. W		
16									i	19 34.6		I local - 6 mi.
17									eP	08 37 11		
									iP	55.5		
17	iP	11 18 00			iP	11 18 17			iP	11 18 14		
	iP	04			eS	53			eS	46.5		
	eS	32							iS	48		
		Trace regional										
17	eP	15 08 11			e	15 08 17			eP	15 08 18.5		
	eP	16			eP	29			eP	33		
	eP	26			eS	09 41						
	i	09 08										
	eS	36										
		I regional - Felt in Central California. Slight damage at Hollister.										
17	iP	16 37 47.9		-40 -9 +49	iPZ	16 37 45.9		-10 +15 +	0	16 37 36.1		
26	i	54.8			iPH	46.2			iP	38.9		+165 +120
	i	56.0			iS	53.2						
	iHE	56.2			iS	53.7						
	i	38 01.1								III+ 9.8 mi. NSW		
		III local - 41.5 mi. E				III local - 35.5 mi.				Trace disappears at iP		
		Epicenter in Gregg Basin - 6½ mi. N of Pierce Ferry. Depth of focus probably 7½ mi.										

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Time used is

BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
17	iPE	16	59	26.3					i	16	59	26.5					0	16	59	14.6				
	i			26.6					e			30.9					iP			17.3		-250	-110	
27	i			33.5					iS			32.2					i			18.6				
	iSN			34.6						I local - 36½ mi.								III - 9½ mi.					
	iSZ			35.2																				
	i			39.9																				
	I local - 41 mi.																							
	Epicenter in Gregg Basin - 6½ mi. WSW of Pierce Ferry. Depth of focus ca 7½ mi.																							
																	≑ 9 local shocks at 6½ mi. I							
17-18																								
18	iPE	04	17	28.3					iPE	04	17	26.4					0	04	17	16.6				
	i			28.7					iPEW			26.7					iP			18.6		-225	-40	
28	i			35.6					e			31.2					i			19.9				
	i			36.3					e			33.1						III local - 6.8 mi.					
	iS			36.6					iSN			34.1											
	i			37.5					i			40.2											
	i			41.5						I local 35.3 mi.														
	I local - 41 mi.																							
	Epicenter in Gregg Basin - 6½ mi. WSW of Pierce Ferry. Shallow focus																							
18	i	09	45	27.3					iP	09	45	31.6					iP	09	45	36.8				
	iP			33.4					iP			40.2					iP			45.8				
	eS		46	12					eS		46	25					eS		46	33				
	I regional																							
																	eP	10	57	50.5				
18	eP	10	57	42													eS			33				
	e		58	21														I regional?						
	I regional?																							
18	i	17	31.3	Trace local - 6 mi.																				
18	iP	21	50	53.3		-	-	+																
	iS			55.0																				
	i			56.7																				
	I local - 8½ mi. NE																							

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Time used is

No. / Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
18	iP	23 46 50.3		+15	-15	+130
	iSN	55 53				
	II distant NW					
18-19						
19						
19	eP	08 01 09				
	e	05 07				
	eS?	47				
	e	08 39	7			
	i	09 03	3.3			
	eM	10 00				
	coda		7.5			
	II distant - 25°			CGS 16°N, 98.4°W (West Coast of Mexico)		0 = 7:55.8
19						
19						
19						
19	iP	15 09 33.2		-	+	-
	m		1.5			540
	e	12 05				
	e	49	13			
	M	14.2	10		340	
	coda		8			
	II distant - 740 mi. NW					
	CGS 40.2°N, 126.8°W.			0 = 15:07.0 - Felt in Northern California Coastal Area.		
19						
OVERTON						
	iP	08 07 49.3		+	+	-
	iS	53.7				
	I local - 22 mi.					
	iP	15 09 35.8		-	+	-
	M	14.3	10			
	coda		8			
PIERCE FERRY						
	i	23 46 51				+
	iP	53		+	-	+
2 local shocks at 6 mi. - I						
	eP	02 42 20.5				
Trace distant						
	eP	08 01 06		-	+	+
	eS	05 20				
	i	08 45	3.5			
	e	11.0	9			
	coda		8			
	iS	08 08 06				I dist ant
	eP	08 27 57	1.0			I dist ant?
	iP	12 25 20				Trace
	iP	15 09 41		-	+	-
	m		0.7;1.5			500
	e	12 19				
	e	13 12	13			450
	M	14.5	9			480
	coda		7.5			
	III					
	iP	16 43 40.2		I regional		
	eS	06.5				

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 1945

Time used is

International Seismological Centre

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
19	e	19 56 50	Trace distant										iP	19 56 53.7	Trace distant			
													iP	57 23.5				
19-20													2 local shocks at 6 mi.			I		
20	iP	04 26 19.5				+	iP	04 26 17					iP	04 26 22.5				+
		Trace distant												I distant?				
20													iP	06 48 31.0		+9	+8	+
													iS	33.2				
														I local - 11 mi. (Hualpai Wash?)				
20	iP	07 44 18.5	Trace regional - 170 mi.										iP	07 44 26	I regional			
	eP	22.3											eS	45 07				
	eS	51																
20							iP	12 03 9.8				-	iP	12 03 10				-
														I distant				
20													i	15 24.4	I local - 5 mi.			
20													i	16 33.0	I local - 5 mi.			
20	iP	16 33 29		-	+	+	eP	16 33 32.5		-		-	iP	16 33 26	1;2	+		-
	e	37 29					e	37 53					i	37 21	2.2			
	e	39 01	6															
		I distant SE												I distant				
20													eP	18 16 21				
	eS	18 20 44											eS?	20 50				
														I distant - 26°?				

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 1945

Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
20	i	21 13 44.2				
29	iS	50.2				
		Trace local - 41½ mi.				
		Epicenter about same as No. 24				
21	iP	00 09 47.7		-20	+3	+
	i	49.0				
30	i	54.5				
	eNE	55.1				
	i	55.5				
		I local - 38½ mi. E				
		Epicenter on East slope of Bonelli Peak - 10½ mi. SW of Pierce Ferry				
21	iP	12 27 37.6				
31	iNE	38.0				
	e	44.4				
	e	49.6				
	e	51.8				
		I local - 58 mi. NE				
		Epicenter probably Virgin Valley - 14 mi. NE of Overton. Depth of focus 14 mi.				
21						
22						
22-23						
23	iP	18 50 44.1		+12		
	i	45.6				
	iS	46.2				
		I local - 10½ mi.				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	21 13 42.5				
eS	50.0				
i	53				
	Trace local - 35½ mi.				
iPZ	00 09 47.4		-?	+8	+
iEN	47.7				
iS	55.2				
i	58.4				
	II local - 37 mi. SSE				
iP	12 27 27.1		+5		-
i	31.1				
iS	31.5				
i	31.9				
i	32.1				
	II local - 20 mi. NE				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
0	21 13 29.7				
iP	31.7		+10	+7	+35
i	32.5				
iS	33.05				
	II local - 7 mi. WSW				
0	00 09 36.9				
iP	39.9		+100	+90	+450
i	40.6				
iS?	41.2				
iS	42.0				
	III local - 10½ mi. SE				
iP	12 27 34.2		0	-	+
e	41.6				
iS	43.1				
iS	43.4				
	I local - 45 mi. N				
iP	14 14 02	Trace distant			
eP	13 58 59				
eS?	14 00 56	Trace regional?			
	5 local shocks at 6+ mi. - I				

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 1945

Time used is

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
32	23	iP	19	09	22.8				+
		iS?			29.2				
		iS			30.9				
		I local - 41.5 mi.							
		Epicenter in Gregg Basin about							
	23	iP	21	49	3	I local - 10 mi.			
	24	iP	12	03	51.1				
		iS			52.7	I local - 8 mi.			
	24	i	12	41	0	I local - 6 mi.			
	24-25	3 local shocks - ca 6 mi. - I							
33	25	iZ	04	13	10.2				
		iZ			11.5				
		iSN			12.0				
		iE			16.8				
		42 mi.							
		Epicenter on West slope of Gregg Basin about 6 mi. W. by N. of Pierce Ferry							
	25	iP	19	46	56				
		i			57.7				
		iS			58.9				
		i		47	02.2				
		I local - 14½ mi.							
	26								
	27								

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									
	23	iPZ	19	09	20.8				-
		iPEN			21.1		+	-	
		eZ			27.3				
		eE			27.6				
		eN			28.6				
		34½ mi. SSE							
		6 mi. W. of Pierce Ferry							
	23	iP	21	49	3	I local - 10 mi.			
	24								
	24-25								
	25	iS	04	13	07.8				
		iN			12.0				
		i			14.6				
	25								
	26	i	14	03	2	I local - 22 mi.			
	27								

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
	23	0	19	09	11.0				
		iP			13.0		+282	+85	+
		i			14.0				
		i?			14.4				
		III local - 7 mi. W							
	24	i	12	41	0	I local - 6 mi.			
	24-25	3 local shocks - ca 6 mi. - I							
	25	iP	04	12	53.6		+110	-48	+?
		iS			54.8				
		III local - 6 mi. WNW							
	25								
	26								
	27	i	03	57	7		+		+
		I local - 6 mi. W							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 1945

Time used is

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
27	eP	21	50	40					e	21	50	39					i	21	49	58				
		Trace distant															e		50	41				
28																	i	07	15.5			+	-?	+
																		I local - 11 mi. NE?						
28	eP	09	52	16					eP	09	52	20					e?	09	52	18				
		Trace distant															eP			19.5				
28	eP	10	21	20.5					e?	10	21	13					iP	10	21	22.5				
	e		23	07					eP			22.5												
	I distant																							
28																	iP	11	36	24		Trace distant		
28	eP	18	17	34					e	18	17	35					eP	16	17	11				
	i		18	42													iP			30				
	I distant																i		18	38.5				
28	i	23	27.6						I local - 5 mi.															
29																	eP	03	12	43		Trace distant		
29	0	04	45	36.8					iPZ	04	45	48.6					ePZ	04	45	50.5				
34	iP			38.5		+71	-80	+240	eS			57.1					eZ			53				
	iS			39.7					e			59.9					eE			58.2				
	i			40.3					eZ		46	00.4					eSEZ			59.6				
																	e		46	00.2				
	II local - 6 mi. NW								Trace local - 41.5 mi.								Trace local - 48 mi.							
	Epicenter 3½ mi. NNW of Boulder City																							
29																	iP	12	09	28				
																	iS		11	19.5		I far regional		

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 194 5

Time used is

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29																	eP	14	06	02				
																	iP			20				
																	iS?			05				
																	iS?			13	I regional			
29									i	20	24.8			+?	+?	+								
										II local - 12 mi.														
29	iP	21	58	50.1				+									eP	21	59	04.2				
	e			54.8													eS			17				
	iS			55.1													e			19.2				
																	iS			20.3				
		I local - 25 mi. probably West																65 mi.						
30	i	02	50.5		Trace local - 5 mi.																			
30	eP	09	30	01					eP	09	30	14.5					iP	09	30	00.5			
	eS			36					eS			56.5					iP			04.5			
	I regional - 190 mi.									230 mi.							eS			53				
																	iS			55				
30	0	15	48	40.2					iS	15	49	00.8					iP	15	48	53.6				
35	iP			41.9		+147	-150	-160-									i			55.2				
	iS			43.05			490	580		42.5 mi.							i		49	01.6				
	i			43.7													iS			02.8				
	II local - 6 mi. NW																	47 mi.						
	Epicenter 2 mi. N. of Boulder City																							
30	iP	17	38	28.0		-15	-7	+																
	i			29.2																				
	iZ			30.1																				
	iS			30.8	I local - 10 mi. to 14 mi. ENE																			
31	iP	18	23	48					iP	18	23	46.5					iP	18	23	50				+
	I distant																iS		33	44	I distant			
31																	eP	21	01	29.5	Trace distant			
31	e	23	03	58					e	23	04	02					iP	23	04	01				-
	Trace																Trace distant							

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LAKE MEAD SEISMOLOGICAL STATIONS

Supplemental Information.....June 1st to Sept. 30th 1945

The following local shocks were located during the above period:

NO	DATE	G.C.T.	LOCATION OF EPICENTER
36	6-23-45	09 00 45.2	3 miles ENE of Boulder Dam
37	7-12-45	11 16 33.8	7½ miles NE of Boulder Dam
	None in August		
38	9-15-45	22 12 09.45	4.5 miles ENE of Boulder Dam

The following shocks were reported felt in Lake Mead Region. (Roman numerals are intensity grades as estimated by the modified Mercalli Scale of 1931).

NO	DATE	G.C.T.	INTENSITY AND DESCRIPTION
No shocks reported felt during June 1945.			
13	7-27-45	09:32:12.3	III at Boulder City, Rattled Windows
14	7-30-45	04:48:51.7	III at Boulder City, Loud Rumble

No shocks reported felt during August 1945.

No shocks reported felt during September 1945.

The following Distant shocks recorded at Boulder City; were located by the Washington D.C. Office, U.S. Coast & Geodetic Survey.

DATE	Phase at B.C.	DISTANCE FROM BC TO EPICENTER	LOCATION	TIME OF ORIGIN
6-3-45	iP	Δ = 2770 miles	8.3° N, 82.6° W. Chiriqui Province, Panama	13:05.6
6-20-45	e	Δ = 4625 miles	Kurile Island region 45° N, 153° E.	17:35.0
6-22-45	eE	Δ = 4970 miles	43° N, 146° E. Near East Coast of Hokkaido Island, Japan	09:18.5
6-27-45	iP	Δ = 621 miles	27° N, 112° W. Gulf of California	18:08.1
6-30-45	iP	Δ = 910 miles	17° N, 116° W. 650 miles off West Coast of Mexico.	05:31.3

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7-9-45	iP	Δ = 3450 miles	1° N, 77° W. Southern Columbia, S.A.	16:41.8
7-15-45	iP	Δ = 6060 miles	17° N, 145° E, Mariana Islands.	05:35
7-26-45	i	Δ = 1865 miles	34.3° N, 81.4° W, Felt in South Carolina.	10:32:16
8-2-45	eP	Δ = 1550 miles	54.2° N, 133.1° W. off British Columbia	20:44.8
8-3-45	iP	Δ = 3000 miles	4.4° N, 82.1° W. Pacific Ocean off Columbia, S.A.	04:11.3
8-3-45	e	"	" " "	06:34.5
8-10-45	e	Δ = 2070 miles	15.4° N, 88.8° W. Near Guatemala-Honduras border	11:20.3
8-11-45	eP	Δ = 2980 miles	4.4° N, 82.1° W, Pacific Ocean off Columbia, S.A.	00:33.5
8-29-45	iP	Δ = 6210 miles	14° S, 166° E. New Hebrides Islands	10:22.6
9-2-45	iP	Δ = 7100 miles	34.0° N, 30.0° E. Eastern Mediterrean Sea.	11:53.9
9-13-45	eP	Δ = 5625 miles	34° S, 70° W. Central Chili, S.A. Destructive	11:17.0
9-14-45	eP	Δ = 5170 miles	7° N, 38.8° W. Mid-Atlantic Ocean.	2:02.4
9-26-45	iP	Δ = 3385 miles	18.9° N, 62.4° W, East Puerto Rico.	14:26.8
9-28-45	eP	Δ = 760 miles	Near 41° 40' N, 126° 55'W. Off Northern California	22:24:05

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ELGIN

ALAMO

MEADOW VALLEY WASH

MORMON PEAK

ST GEORGE

LITTLEFIELD

RIVER

36° - 45′

115°

31
25
22
20
21

VIRGIN

36° 45′

114°

VIRGIN PEAK

OVERTON

NEVADA

ARIZONA

MUDDY PEAK

LAS VEGAS WASH

LAS VEGAS

LAKE MEAD

36
18
34
35
19

36° 00′

BOULDER DAM

BOULDER CITY

115°

DETRITAL WASH

BONELLI PEAK

33
32
26
28
30

GRAND WASH

PIERCE FERRY

GRAND WASH CLIFFS

36° 00′

114°

HUALPAI WASH

COLORADO RIVER

0 5 10
STATUTE MILES

M-1340-4

TENTATIVE EPICENTERS IN THE LAKE MEAD AREA
April - June 145

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF June 1945

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	iP	06	56	48.9				-	iP	06	56	52.7				-	iP	06	56	50		-?	-	-
	I distant																							
1	eP	15	21	25	1.3				iP	15	21	24.7				+	iP	15	21	28.5		-	+	-
	i		27	08.5	1.1												iS		27	50.5				
	eS			40.5	2.5																			
	I distant																							
1	iP	15	51	34.5	1.6				eP	15	51	32.2					iP	15	51	38.5		-	+	-
	eS		57	51.5													iS		57	59.5				
	I distant																							
1	eP	16	57	28.5					eP	16	57	23					eP	16	57	30.4				
	eS	17	00	29.5					eS	17	00	10					eS	17	00	23.4				
									eS			20					iS			28.4				
	I distant																							
1	e	18	15	22.6																				
1	eP	21	21	04.5					iP	21	21	33					eP	21	21	10				
	eP			14.0					iS		22	08					iP			21				
	iS			49.0													eS			59.5				
	Trace regional																							
1																	iP	22	26	32.5				
																	iS			50.5				
1	eP	22	36	08.0					iP	22	36	08					iP	22	36	06				-
	Trace regional																							
2	iP	06	10	51.5					iP	06	10	58.5					iP	06	11	00				+
	iP			54.5					iP		11	05					Ip			06				
	iP			57.5					e			33					iP			10				
	eS		11	23.5					eS			41					eS			41.5				
																	iS			44		500		
	II regional																							

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No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
										BOULDER DAM														
2	0	17	40	54.4		-17	-11	+35	iP	17	40	56?					iP	17	41	06.2				
	iP			56.6					iS?			56.7?		3.57 mi.			i?			14.2				
	iSE			58.1						OVERTON							i?			15				
	iS			58.7				220	Lost in local disturbance								i			16.4				
		II local - 7.5 mi. ENE																43.3 mi.						
		Probable epicenter at North entrance to Black Canyon																						
2	iP	18	29	06				+	iP	18	29	05.5					iP	18	29	07.5				+
	i			42.0																				
		I regional:																						
2	eP	23	09	39.5																				
		Trace																						
3	e	12	35	57					e	12	36	12.5					e?	12	33	30				
																	iP			33				
		Trace distan															e		35	50				
																	e		36	02				
3	iP	13	13	13	2	-25	+15	+	eP	13	13	11.5					iP	13	13	09.5		-	+	+
	e		19	05					e		19	03.5					i		19	03				
	e		23	20													e		23	31				
		Compression from the SE															coda				12.5			
3																	eP	15	41	35				
																	eS		43	50				
																		I distant						
4																	eP	08	17	02				
																	iP			09				
																	eP			23				
																		Trace distant						
4																	e	12	27+			Trace distant		
4	eS?	16	01	06													eS?	16	00	28.5				

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Time used is

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
5	iP	22	49	33		-	?	+																
	iPN			33.5																				
	iSZ			35.5																				
	iSN			36																				
	I+ local																							
5-6	2 Traces local - 5 mi.																5 or 6 Traces local - ca 5 mi.							
6	eS	01	05	52													eP	01	04	02				
																	eS		05	55				
																	Trace regional							
6									iP	07	09	56.5					iP	07	09	56.5				
7	e	00	19	04					iP	00	17	42				-	iP	00	18	49				
	e			05					i			44.5					i			57.5				
									i			46.5		I local			eS			58				
7	eP	11	59	54.5					eP	11	59	28					eP	11	59	57				
										I distant														
7	eP	17	29	10																				
7	iP	17	43.7			I local - 2 mi.																		
7	eP	20	07	33.5													eP	20	06	59.5				
	iP			45.5													i			28.5				
7-8									2	I local shocks							2 traces local shocks 1 at 37 mi.							
																	1 at 5 mi.							
8	iP	15	59	25.9					Lost in disturbance by								iP	15	59	33.4				
	i			27.3					passing train								iS			40.9				
	iS			28.5													iS			41.8				
	I local -13 mi.																							

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MONTH OF June 1945

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No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
8	i?	16	07	15.5						Lost in disturbance by							iP	16	07	07.5		-195	-30	-680
	ip			17.1					.	passing train							i			08.5+		870		
	i			20.1													i			08.7-				
	iSN			24.9														7 mi.?						
	iSZ			26.1																				
	i			30.3																				
	40.5 mi.?																							
	Probable epicenter - West side of Gregg Basin - 7 mi. West of Pierce Ferry																							
8	i	17	07.8		Trace local - 7 mi.																			
9																	iP	12	45.4		I local - 6 mi.			
9	i	22	51.3		Trace local - 7 mi.																			
12	eP	16	10	08					iP	16	10	12.5					iP	16	10	10.5				
	e			21	1.5				iP			14.5					iP			20				
																	iP			30				
12-13	4 traces - ca 5 mi.																							
13																	iP	04	04	38				
14	iP	03	31	54.5		+10		+12	iP	03	32	02					e?Z	03	32	01.5		+40		+
	iP			59		+30	+12	+50									iP			03				
	is?		32	25				1600+									iP			08.5				
	III regional - 160 mi. WNW																							
14	i	03	42.6		Trace regional																			
14	i	07	07	53.5													iP	07	07	10.5				
	iP			56	Trace regional																			
14	iP	07	21	29.5	Trace regional																			
14	i	07	21	57.5					iP	07	21	20.5												
	iP			58.5	Local shock				iP			45												

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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Time used is

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
14	iP	09	10	27				-	iP	09	10	32					iP	09	10	32.5				
	iS		11	01					iP			03					i			37				
	iS			57.8																				
	I regional																							
14	iP	09	22	43.5				+	iP	09	22	50					iP	09	22	56				
	iP			46					iP		23	18.5					iS			28				
	eSE		23	13.5													iS			32.5				
	iS:N			16.0																				
	I regional																							
14	iP	10	15	45				-	iP	10	15	46					iP	10	15	52				
	iP			47.5					iP		16	24					iP			57				
	iS		16	15.5													eS		16	32.5				
	iS			18																				
	I regional																							
																	e	22	59	22.5				
14	iP	22	59	29.5													e			38.5				
	I distant																Trace distance							
15	iP	04	25	59				+	iP	04	25	59				-	iP	04	26	02.5				
	iP		26	09													eS		32	24.5				
	I regional																							
15	iP?	17	50	01.5													iP	17	50	09				+
	iP			07.5				+																
	I distant																							
16	iP	20	05	06.5				+									iP	20	05	02.5				-
	iP			12																				
	I distant																							
17	iP	09	04	01.5				+	iP	09	04	23				+	eP	09	04	09.5				-
	S			41.5					iS		05	04.5					iP			30				
																	iS		05	00				
	I regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF June 1945 6.

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
17	iP	16	47	18				-
	e		53	20				
	e			33				
	I distant							
17	iP	22	52	45.5				
	iP			54.5				
	I distant							
18								
18								
18								
17-18								
18	iP	22	22	31				
	iP			35				
	iS		23	03.5			190	
	II regional - 160 mi.							
19	eP	17	42	59.5				
	eP		43	03.5				
19	eP	17	55	16				
	I distant							
20	eP	01	34	35				
	I distant							
20	eP	09	07	01				

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	16	47	21				-
iP	22	53	14				-
iP			05.5				
iP	04	57	22				
iP	22	22	26				-
eP	01	34	36				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	16	47	15				-
iP	22	52	49				+
iP			57				
eP	01	54	20				
iP	12	47	53.5				
4 traces, local shocks at 7 miles							
Lost by failure of drum							
iP	17	43	02				-
iP	17	55	13.5				
iP	01	34	39				
iP			50				
e?	09	06	27.5				

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
20	e	11 52 25				
	eP	32				
		I distant				
20						
20	e	17 45 55.5				
	iP	57.5				
	eS	54 46.5				
		I distant				
20	e	20 31 01				
		I distant				
21						
21	iP	15 45 37				
		Local trace - 10 miles				
22	e	01 18 38				
		I distant				
22	iP	03 24 14.5				+
		I local - 5 miles				
22	iP	03 24 35				+
		II local - 5 miles				
22	eE	09 29 42				
	iP	43	1.0	-	+	-25
	iP	58.5				
	m					550
	i	38 38.5				
	iS	39 04				
	e	40 13.5				
		II distant - dilatation from NE				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
eP	11 52 37				
	Lost in local disturbance				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
eP	11 52 35.5				-
iP	19 38.3				-
	II local - 5 miles				
iP	17 46 01				
iP	46.5				
iP	47 01				
iS	54 52.5				
iP	20 31 04.5				-
	04 31 32.5				
	3 local shocks 1	at 7 miles			
	2	at 3 miles			
e	01 18 39				
iP	09 29 55.5				
iS	39 39				

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MONTH OF June 1945 8.

Time used is

		BOULDER CITY								OVERTON								PIERCE FERRY							
No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	22	e	18	19	04													eP	18	19	30				
		e		20	20													eP			50				
		I distant																							
	22	iP	21	25.5																					
		Trace - 5 miles																							
	23	iP	04	31.4																					
		Trace - 5 miles																							
36	23	iP	09	00	45.2		+	+	-	iP	09	00	53.6					iP	09	00	55.1		+	0	+
							-46	-38	+150	iN			55.4					iE			58.9				
		iS?			46.7					i			56.0					iE		01	00.1				
		iS			47.9				700	e?		01	00					eZ			03.0				
		III local - 7½ mi. NE								iSN			00.5					iS			04.0				
										iSEN		01	01.4					II local - 42 mi.							
										iE			02.2												
		Epicenter 3 miles NNW of Boulder Dam																							
	23	i	16	48.0																					
		Traces local - 5 miles.																							
	23	i	16	58.6																					
		Trace local - 5 miles.																							
	23	iP	20	44	44.5													iP	20	44	42				
		iP			50.5													iP			54.5				
		I distant																							
	23	e	23	49	41					i	23	49	35					iP	23	49	43				
		e			46					iP		50	00					iP		50	15				
		eS		50	13					iP			12												
		Trace regional																							
	23-24	4 traces - ca 5 miles.																							
	24									iP	05	17	14												
										iP			38												
	24	eP	11	12	48					iP	11	12	46					iP	11	12	45				
		e			58					iP			52					iP		13	09.5				
		Trace distant																							

LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF June 1945 9.

Time used is

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Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
24													3	traces - ca 5 miles				
24	eP	17 24 23.5					eP	17 24 30					iP	17 24 32				+
		Trace distant											iP	51.5				
													iP	25 00.5				
24							iP	18 45 39.5				+						
							iS	42										
24	iP	20 10 04.5		+	-	-	iP	20 10 11				-	iP	20 10 08		+		-11?
	i	28					iP	26.5					iP	33				
	eS	20 11						II distant						II distant				
		II distant Δ = 80°		Dilatation			from SE											
24							iP	21 31 51.5		-?	+?	+						
							iP	52										
							iS	53.5										
							i	54										
								I local										
24	i	22 50.8		Trace local - 5 mi.														
25	iP	02 42 21		I local - 5 mi.														
25	iP	21 57 05		+10	-	-												
		I local - 5 miles downward																
25	iP	23 52 07				+	iP	23 52 07.5				+	iP	23 52 09				-
	iP	17.5					iP	16					iP	14.5				
	iP	26.5											i	28				
		I regional						I regional						I regional				
25-26	2 traces local - 5 miles																	
26	iP	00 24 08.3		+50	-10	-							e	00 24 27		-		?
	iS	09.												Trace				
		II local - 4 mi. downward																

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
26	eP	16	56	17.5				-	eP	16	56	21.5					eP	16	56	21.5				+
	I distant								I distant								I distant							
26	eP	21	33	24.5																				
	I distant																							
27	iP	02	19	00				-									iP	02	20	10.5				
	eS		20	30														Trace						
	e			35													iP	02	20	49				
	Trace																	Trace						
27	iP	08	46	52																				
	I local - 4 miles																							
27	iP	13	10	42			-	-	iP	13	10	47.5				-	iP	13	10	39.5				-
	iP			44		+	—	-									iP			43				
	e		11	20													e		13	20				
	eS		12	42																				
	e		13	15					(Gulf of California)															
	III distant 006 26° N, 110°W, O = 13:08.2, Δ = 6900 mi.																							
27	iP	14	33	51													iP	14	33	13				
	I local - 5 miles																	I local - 4 miles						
26-27																	5 traces local							
27																	iP	16	55	47.5				
																		Traces local - 5 miles						
27	iP	18	10	23.5		?		+	iP	18	10	29.5				+	iP	18	10	23				
	iP			27.5							11	48.5					iP		11	09.5				-
	iP			56																				
	iP		11	25																				
	iS		35	11																				
	II distant																							

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	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
27	iP	20	01	36																				
		Trace distant																						
27	iP	23	49	33																				
		Trace distant																						
28	iP	00	05	45	1.5			-	iP	00	05	46.5					iP	00	05	42				
	iP		06	54.5				-	iP			57.7					iP			46				
		Trace distant																						
28	iP	12	51.7		I local - 5 miles																			
28	iP	16	19	49																				
		I local - 5 miles																						
28	e	17	20	52					eP	17	20	25.5					iP	17	21	09.5				
	eP		22	27.5					iP			32.5					iP			27.5				
	iP			47					iP		22	45.5							23	22.5				
	eP		24	30															24	30.5				
	I distant																							
28	iP	19	34	09.5				-									iP	19	34	12.5				-
	I distant																							
29	eP	22	38	56.5																				
	iP		39	32.5																				
30	iP	05	35	47.5				+	iP	05	36	08				-		05	34	48.5				+
	iP		36	37																				
	II distant									II distant								II distant						
30	iP	09	37	48.5				-	iP	09	37	54.5				+	iP	09	38	20				+
	iP			59.5					iP		38	08					iP			32.5				
	I distant								I distant								I distant							
30	iP	18	26	44				-	iP	18	26	45				-	iP	18	26	10				
	iP			56					iP			56								22				

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1																	iP	20	57	16		+	-	-
2	iP	08	34	51	2.0	+	-	-	iP	08	34	57	2.0	+	-	+12	iP	08	34	50.5	2.0	+	-	-
	i		35	34					i		35	11					i		35	32.5				
	e		38	17	3.5				e		36	23												
	e		40	00																				
	m				6.5																			
2	iP	08	55	51				+	iP	08	55	57				-	iP	08	55	49.5				-
	iP		59	03					eP		59	07					i		59	02.5				
	iP	09	04	00					eP	09	04	24						II distant						
	i			18						II distant														
	II distant																							
3	iP	04	12	53.5					iP	04	12	58					iP	04	12	50				
	e		15	33						I regional or distant							i			16				
	e		16	01													e		15	47				
	I regional or distant																							
3	iP	04	57	23					i	04	57	30				-	i	04	57	17				
	iP			26					iP			44					iP			23				+
	i	05	00	09					iP			50					i		59	48				
	e			18					i	05	00	36					e	05	00	00				
	I regional or distant																							
3	iP	05	12	30					iP	05	12	36					iP	05	12	20.5				
	e		15	17					iP			41					iP			26.5				
	I regional or distant								e		15	19					I regional or distant							
									I regional or distant															
3	iP	18	04	03.6		-?	+?	+30									iP	18	03	43.5				
	is			04.6				140									i			44				
	I local - 5 mi. SE																i			52				
3	i	21	17.2		Trace local - 6 mi.												Confidential-not for publication.							
3	i	21	19.7		Trace local - 4 mi.																			

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Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
Sta. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
3	iP	22 09 27.5	1.0			-									iP	22 09 30					
	i	45.7													i	45					
		Trace distant														Trace distant					
4	i	01 34.1		Trace local		-	5 mi.														
4	i	06 01.6		Trace local		-	5 mi.														
4	i	09 51.6		Trace local		-	5 mi.														
4	iP	10 22 43.5	1.4			-		iP	10 22 06						iP	10 22 41.5					
		I distant							I distant							I distant					
4	iP	11 16 20				+		iP	11 16 23						iP	11 16 22.5					
		Trace distant							Trace distant							Trace distant					
4	i	14 01.6		Trace local		-	5 mi.														
5	iP	02 04 23.8			+	+	-														
	is	24.6					200														
		II local - 4 mi. NE																			
5	i	06 46.1		I local		-	4 mi.														
5	eP	12 10 14																			
	eP	24.5																			
		I distant																			
6	eP	02 28 18																			
		Trace Distant																			
6	i	11 19.5		Trace local		-	3 mi.														
6	e	16 48 03.5													iP	16 48 05.5					
	i?	21.9													e	43					
	i	49 14.5													i	49 17					
		Trace regional														Trace regional					

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Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
7	i	01 41.6	I local - 5 mi.															
7	iP	01 48 45.1		-?		-												
	iS	46.1				130												
		I local - 5 mi.																
8	iP	18 10 19				-												
	i	11 07																
		Trace distant																
9	iP	12 04 52.5	1.0										iP	12 04 49				+
		I distant											iP	05 01.5				
														I distant				
9	iP	13 53 51.6											iP	13 53 52				
	iP	53.6											iP	54 03				
	eS	54 28											eS	46				
	iS	30											iS	51				
		Trace regional												Trace regional				
9	iP	16 50 45.5	1.0	+		-							iP	16 50 42				-
	i	51 29.5											i	51 00				
	i	52 08											i	04				
	e	57 39											e	53				
		I distant											e	52 06				
														I distant				
10	i	00 18.0	Trace local - 7 miles															
10	i	01 59.8	Trace local - 7 mi.															
10	iP	08 37 05.2		+12	+5	-45												
	iS	05.8		120		120												
		I local - 3 mi. NE																

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BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
10	i	21 25.0	Trace local - 3 mi.			
10	iP	22 58 49.5		-	+	+
	i	50.5				
	is	50.9				100
		I local - 7 mi. SE				
11	iP	00 37 18				
	i	32	1.1			
	e	42 38				
	e	45 16				
		II distant				
11	iP	13 56 21.5				+
		I distant				
11	e?	16 14 16				
	e	20				
	i	54				
		Trace regional				
12	e	00 45 19				
	e	37				
		Trace distant				
12	i	02 58.3	Trace local - 3 mi.			
12	ip	09 21 47		+	-	-
		I distant				
12	i	10 22 34				
	iP	36.5				
	i	23 00				
	is	24 02				
		Trace regional				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	00 37 16				
i	21				
i	30.5				
	II distant				
e	16 14 44				
e	51				
i	15 12				
	Trace regional				
iP	09 21 49			-	
	I distant				
i	10 22 47				
	Trace regional				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	00 37 21				-
i	35.5				
i	42				
e	38 21.5				
	II distant				
	13 56 24				
	I distant				
e	16 14 29				
e	51				
i	15 02.5				
	Trace regional				
e	00 45 26				
e	41				
	Trace distant				
iP	09 21 45				-
i	22 18				
	I distant				
e	10 22 47				
i	23 24				
	Trace regional				

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Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
12	iP	11	16	33.8		-?	-	+	iP	11	16	39.0					iP	11	16	39.9				+
	iS			37.1					iS			45.1					i			43.1				
		I local - 16½ mi. NE?							i			48.6					e			45.1				
		Epicenter - 7½ mi. NE Boulder Dam								Trace local							i			45.6				
																	iS			47.4				
																		Local						
12																	iP	19	18	35.6				
																	i			41.6				
																	i		19	00.6				
																		Trace regional						
13	eP	02	13	10													iP	01	30	54.4				
	iP			17													i		31	05.5				
	i			35														Trace regional						
		I distant																						
13	i	03		10.6				+12 -									iP	12	35	19				
		I local - 3 mi.																Local - 5 mi.						
13	iP	07	10	56.3				+									iP	14	40	53				
	iS			58.6													i		41	02				
		I local - 12 mi.															i		42	08.5				
																		I regional						
13	eP	16	00	06	I distant																			
13	iP	20	38	06					iP	20	38	05					iP	20	38	31.5				
		Trace distant								Trace distant								Trace distant						
13	e	21	28	35					e	21	28	37					e	21	28	36.5				
	i			54					i			43					i			59.5				
	e		29	59					i		31	49					e		29	28.5				
	e		30	15													e			42.5				
		I regional								I regional								I regional						
13	eN?	22	06	12													e	22	05	43				
	e			21													e			54				
	e		07	17														Trace regional						
	e			37																				
		I regional																						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF July 1945 6.

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
14	i	02	22	37					i	02	22	32					i	02	22	39.5				
	e		23	34					e			41					Trace regional							
	i			42					Trace regional															
	Trace regional																							
14	eP	12	28	50	Trace distant?																			
15	iP	05	47	46.5					iP	05	47	47.5	.5			-	iP	05	47	49.5		+		-
	iP		48	22.5					i			52					i		48	01.5				
	i			39					i		48	21					i			17.5				
	iE		57	18					II distant								iE		58	03.5				
	eZE			41													iE			14.5				
	iS			58													II distant							
	i	06	10	24					i	06	04	27					06 13 33.5							
	iPP		13	38	1.5				I distant								I distant							
	i			53	2.5																			
	e		34	12																				
	ePPP			29	1.5																			
	II distant																							
16	eP	05	01	42													iP	05	01	44				
	Trace distant																Trace distant							
16	i	10	35.2			+?	+	-																
	I local - 3½ mi.																							
16	eP	11	31	34.5					eN	11	31	34.5					e	11	31	23.5				
A=Air wave	iP			42					ePN			46.8					iP			29				
New Mexico	e		33	11					i			52.3					i			46				
Atomic Bomb	eS			15															33	01.5				
	A	12	09	52					e	12	09	17					i	12	09	17				
	A		12	13					e			49					iP			27				
	A		14	09							10	06					i			35				
17	eP	06	53	09													eP	06	53	06				
	coda				10																			
	I distant																I distant							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF July 1945

Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
17	i	07 52.4		-	-	+
		I local - 10 mi.				
19	iP	05 09 42.1		+	-	-60
	iS	42.9		150		120
		I local - 4 mi. SE				
19						
19	i	12 45 40.5				
		Trace regional or local				
21	iP	02 03 10.8				
	e	37				
	eS	41.5				
		Trace regional				
21	eP	22 10 38				
		I distant				
22	eP	06 12 46.5				
		Trace distant				
22	eP	10 59 05				
		I distant				
22	iP	12 09 12.5				
		I distant				
22	eP	20 15 33				
		Trace e 43				
		Trace distant				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	02 03 24				
i	38				
	Trace regional				
eP	22 10 41				
	I distant				
e	06 12 44.5				
	I distant				
e	10 59 03.4				
	I distant				
iP	12 09 16.3				
	I distant				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
eP	08 52 21.5				
	Trace distant				
iP	14 25 23.5				
e	39.5				
	I distant				
e	02 03 20.5				
iP	21.5				
	Trace regional				
e	22 10 40.5				
	I distant				
eP	06 12 54				
	I distant				
e	10 59 08				
	I distant				
iP	12 09 11.7				
	I distant				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF July 1945

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
23	eP	04	14	06				
	e			46				
	e		17	21				
	I distant or regional							
23	iP	04	27	02.3				
	iP			06.3				
	eS			34.8				
	iN		28	17.1				
	I regional							
25	i	17	55.8		I local - 8 mi.			
26	i	08	48.1		I local - 5 mi.			
26	i	09	21.2		I local - 5 mi.			
26	i	10	11	45.5				
	i		12	13.5				
	i			19				
	Trace regional - barely perceptible							
26	i	10	46	40				
	i			59				
	Trace distant							
26	i	11	30.1		I local - 5 mi.			
27	i	09	30.8		Trace local - 4 mi.			
27	iP	09	31	26.90		-115	+110	+300
	iS			27.45				550
	II local - 3 mi. SE							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	04	14	06.8				
I distant							
iP	04	27	15.3				
i			19.8				
i			29.8				
I regional							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	04	14	08.5				
e			14.5				
e			43.5				
I distant							
eE	04	27	11.5				
iPE			18				
iSE			34.5				
I regional							
iSE	09	31	48.5				
i			50.5				
I local							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF July 1945 9.

Time used is

M-1073-4

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
		BOULDER CITY					**OVERTON**						**PIERCE FERRY**					
27	iP	09 31 37.0																
	is	37.5																
		II local - 3 mi. SE																
27	i?	09 31 45.2																
	i	45.9																
		I local - 3½ mi.																
27	iP	09 32 12.3		-395	+370	+	ePN	09 32 24.6					eE	09 32 24.6				
	is	12.8				850	eN	25.7					isE	25.5				
		III local - 3 mi. SE					i	27.3					iE	27.5				
		Epicenter 2 mi. SE Boulder City					i	29.7					iE	28.5				
							is?	33.6					iE	33.4				
							e	42					iE	35.2				
								I local - 45 mi.					iE	38				
														I local 46 mi.				
27	iP	09 35 25.7		-35	+35	+95		E & Z Sticking										
	is	26.2				180												
		II local - 3 mi. SE																
27	iP	17 06 12.5	1.7				ePE	17 06 19					iPE	17 06 31.5				
		I distant						I distant						I distant				
28	i	21 01.8		Trace local - 5 mi.														
28	iP	21 33 34.3		+16	+25	-14	eN	21 22 30.2					eE	21 22 42				
	is	35.2						Trace distant						I distant				
		I local - 4½ mi. NE																
29	iP	04 05 15.7		+28	+38	-270												
	is	16.6		250	220													
		II local - 4½ mi. NE												Seismograph				
29	i?	06 00 20.5					e(N)	06 00 36.5						out				
	i	31.5					i(N)	51.5						of				
		Trace local or regional						Trace regional						order				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF July 1945 10.

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29	iP	18	50	13	1.2			
	e		53	03				
	e		56	25				
	I distant							
30	eP	06	07	03.8				
	iP			05.7				
	eS			43				
	eE			47				
	II regional							
31	iP	04	48	51.7		+220	-13	-250?
	iS			52.7		1020	850	690
	III local - 5 mi. E							
31	eP	05	07	27.5	Trace distant			
31	i	05	22.1		I local - 5 mi.			
31	i	13	12.5		Trace local - 5 mi.			
31	i	14	37.6		I local - 5 mi.			
31	i	17	34.4		I local - 5 mi.			
31	eP	18	48	52	Trace distant			

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP(N)	18	50	20				
i(N)			30				
i(N)			43				
I distant							
ePE	06	07	09.2				
iE			11.2				
iE			15.2				
I regional							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
Seismograph							
out							
of							
order							

International Seismological Centre

24 August 1945
Boulder City, Nevada

Mr. Harry B. Robinson
Park Naturalist
Lassen Volcanic National Park
Mineral, California

Dear Mr. Robinson:

The following is a list of local shocks noted on your seismograms for the period April 1 - June 30. The times indicated are not even approximate in some cases because, as you know, time breaks were often lacking.

	Date	Approximate time	Approximate distance
APRIL	1	1008 P.W.T.	20 miles
	4	1330	25
	19	2137	40
	23	0228	40
	24	0815	local
	24	1326	8
	24	1424	8
	24	1529	local
	24	1550	local
MAY	2	1247	?
	8	0901	20
	14	1350	10
	23	0545	15
	26	2300	90
	30	1035	15

Very truly yours,

The above seismograms are being sent under separate cover.

Harold W. Pinckney
Geophysicist

HWP/ddm

cc: Perry Byerly

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF August 1945 1.

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	i	07	11.2		Trace local-5 mi.			
1	iP	11	56	53	1.1	.	-?	-
	i		58	34.3				
	e	12	04	33				
	I distant							
1	eP	22	37	04.6				
	e		41	01				
	I distant							
2	e	08	32	11				
	eP			14				
	Trace distant							
2	eP	20	49	40	2.2			
	e		53	56				
	e			58.0				
	I distant							
3	iP	04	19	27		-	+	+
	I distant							
3	i	05	56.9		I local - 5 mi. NE			
3	e	06	42	31				
	e			35				
	e		51	32				
	i			53	1.2			
	Trace distant							
3	iP	20	58	53.0		+	-20	+75
	iS			54.4				350
	II local - 7 mi. N							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP(N)	11	56	55			+	
i		57	08				
e			16				
I distant							
e(N)	22	37	12.4				
I distant							
e	08	32	16				
eP(N)	20	50	09				
e(N)			14				
e(N)			20.6				
I distant							
eP(N)	04	19	58				
iP		20	04.4				
I distant							
e(N)	06	42	49				
Trace distant							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
Seismograph							
out							
of							
order							
e	20	59	03.4		+	-	+
iP			12.4				
iS			14.4				
I local							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF August 1945 2.

Time used is

M-1073-4

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
4	eP	06	48	21.5					e(N)	06	48	27					iP	06	48	25.6				-
	i		49	03					i			29					i			37.6				
	i	50	27						I distant								i			46.6				
	I distant																I distant							
4	i	22	17.1		Trace local - 5 mi.																			
5																	iP	05	02	55.7				
																	i			57.7				
																	I local							
5																	iP	08	03	52.7				
																	i			55.2				
																	I local							
6	i	01	37.9		I local - 5 mi.												i(E)	01	02	57.6				
																	I local							
6	i	08	23.6		I local - 5 mi.																			
6	i	13	02	43.6													e	13	02	22.4				
	i			45.0													iP			45				
	i			58.4													i			47				
	Trace regional																Trace regional							
6	i	15	27.7		Trace local - 5 mi.																			
6	i	15	29.4		I local - 5 mi.																			
6	eP	23	11	33.5													iP	23	11	31.5				
	I distant																I distant							
7																	e	22	20	07.8				
																	I distant							
7-8	3 traces local - 5 to 7 mi.																							
7									iP(N)	21	47	32.8												
									i			35.8												
									I regional															

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF August 1945 3.

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
8															iP	10 12 47.7					
																I distant					
8	iP	20 00 34.7		+24	+15	-50									i	20 00 48					
	is	36.1				120										Trace					
		I local - 7 mi. NE																			
9	i	05 34.2		I local - 8 mi.																	
9	iP	10 33 54.3		-12	-10	+30		e	10 34 10.4						iP	10 34 13.3					
	is	55.8		160				i	22.4						is	14.3					
		II local - 6½ mi. NE							Trace distant							I local					
9	e?	18 31 33													e	18 31 45.5					
	i	40.2													i	50.5					
	i	32 06.8													i	32 24.5					
		Trace regional - barely perceptible														I distant					
10	e	11 26 24						e(E)	11 26 19.5						iP	11 26 30					
	eP	35						eP	24.5						i	32.5					
	e	33 16							I distant							I distant					
	e	37 35																			
	e	49																			
		I distant																			
10	i	15 41.1		I local - 5 mi. ?																	
11	eP	00 41 37.5													iP	00 41 33.3					
	iP	41.5													i	37.8					
	e	48 05													i	42 36.3					
		I distant														I distant					
11	i	09 02.3		I local - 5 mi.																	
11	iP	11 15 40.0						iP(E)	11 15 11.7						iP	11 15 44.1					
	iP	40.6						i(E)	14.2						i	53.6					
	iPN	42.5						iE	18.7						i	59.1					
	is	16 10.7						isE	41.2						i	16 24.1					
		I regional							I regional							I regional					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF August 194 4.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
11	iP	11 58 40.5					iP	11 58 12.2					iP	11 58 46.1				
	iS	10						Trace					i	49.1				
		Trace regional												I regional				
13													iP	03 30 46.7				
														I distant				
13	i	03 53.8		Trace local 15 mi.		-	i(E)	03 53 31					i	03 53 56.2				
								Barely a trace					iP	54 01.7				
														Trace local				
13													iP	02 09 33.4				
													i	30.9				
														I regional				
14	iP	02 21 38.8					e(N)	02 21 44.8					iP	02 21 22.4				
	i	36.1					iS	22 02.8					i	43.9				
	e	38.6					iN	23 09.8					e	22 51				
	i	22 41.6					iN	24 06.8						I regional				
		Trace regional																
14	iP	06 05 50.3		+10	+20	-90												
	iS	51.1																
	iN	51.5				145												
		I local - 4 mi. NNE																
14													iP	08 13 50.6				-
													e	15				
														I regional				
14													iP	12 24 05.6				
													i	33.1				
														I regional				
14													iP	19 57 04.7				
														I regional				

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF August 1945 5.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
14	e	20 07 06							e	20 05 05.9		
	i	21							iP	28.2		
	Trace distant								iP	07 10.7		
									I regional			
15									iP	14 28 23.6		
									i	38.1		
									I distant			
15	i	16 32.1	Trace local - 5 mi.		i(N)	16 32 35	Trace					
15	iP	17 57 10.9		-12 -15 -10	iP(N)	17 57 20.5		-	iP	17 57 16.2		-
	iP	12.3			iP	33			III regional			
	iP	19.8			III regional							
	iP	21.8										
	iE	46.5		1800+								
	iEN	54.5										
	III regional - 195 mi. SW											
15	iP	18 44 50.7							i	18 44 56.7		
	e	45 26							iP	45 01.2		
	Trace regional								I regional			
15									iP	19 33 30.8		
									I distant			
15									iP	00 09 41.9		
									I distant			
16	i	03 41 16.3			i(N)	03 41 25.5			i	03 41 18.5		
	i	17.3			i(N)	42 16.5			iP	21.5		
	i	41.8			Trace regional				i	28.5		
	Trace regional								i	42 02.5		
									I regional			

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF August 1945

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
16	iS	15 30 43.8 I local											iP iS	15 30 35 38.7 I local - 20 mi.		+6	?	+
17	i i	17 57 32.8 58 01.3 Trace regional					i(N) i	17 58 04 23 Trace regional					i i i	17 57 36.3 43.8 58 18.8 Trace regional				
17	eP	19 12 09 Trace distant					ePN	19 12 07.3 I distant					iP	19 12 11.4 23.9 I distant				-
17	e? eP iP eS iS	20 22 09.5 13.6 14.1 54.7 56.5 I regional					e(N) ePN iP iP	20 22 06.8 12.3 18.3 23 00 I regional					e eP iP iS	20 22 13.9 17 24 23 15 I regional				
17	i	23 10.4	I local - 10 mi.															
18-19	3 traces local shock at 5 mi.																	
19	i i	07 17 22.8 18 03.3 Trace regional - barely perceptible	+1.3															
19	iP i	10 32 32 40 I distant				+	iP(N) iN	10 32 32 48 I distant					iP i	10 32 34 42 I distant				+
19	i	20 10.9	Trace local - 5 mi.															
19	eP	22 03 42 Trace distant				+	e(N)	22 03 46 Trace distant					iP	22 03 45.6 Trace distant				

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF August 1945 7.

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
20	iP	01	21	35.2		+8	-8	+75
	iS			36.2				150
		II local - 5 mi. NW						
20	i	17	34.8		I local - 5 mi.			
21	i	04	15.0		Trace local - 5 mi.			
21	iP	10	18	34.3	1.0	+	-	+75
	i			52				
	i		19	08				
	i		20	36				
	i		21	47				
	i		28	01				
		II distant						
21	iP	16	39	31.5	1.6	+	-	-
	iPP		40	02	1.5	+	+	
	e		47	36				
	eE		48	28				
	eEN			51				
	i		52	07	1.2			
	i			23.5	1.3			
	iPP	17	09	06				
		II distant						
21	eP	20	15	44				
	iP			48				
	e		26	15				
		I distant						
22	eP	05	27	14				
		I distant						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
i(N)	04	15	42				+
iS			49				
	Trace local						
iP(N)	10	18	34				
i		19	22				
	I distant						
iP	16	39	34				-
i							
eN							
	I distant						
eN	20	15	56				
e(N)		16	32.4				
	I distant						
e	05	27	21.7				
eP			34.2				
	I distant						

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	01	21	46.7				
iS			56.4				
	Trace local						
i	04	15	13.7				+
iS			14.7				
	Trace local - 5 mi.						
iP	10	18	36			-	+
i		19	31.6				
	I distant						
iP	16	39	29				-
i			59.7				
eS		47	30				
iP		52	10				
i	17	08	49				
	II distant						
eP	20	15	47				
e		19	39				
	I distant						
eP	05	27	17				
	I distant						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF August 1945 8.

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
23									iP	20	18	29												
										II regional														
24	i	00	38.5		Trace local - 5 mi.																			
24	iP	09	44	27																				
		Trace regional																						
24	iP	17	49	47.1		+	?	+																
	i			48.4		-																		
	i		50	04.0																				
	i			05.6																				
	e			21.2																				
	e			24.2																				
	Probably blast?																							
25	i	08	25.5		Trace local - 4 mi.																			
25	i	08	25.8		Trace local - 4 mi.																			
25	iP	21	28	41.1																				
	i			48.5																				
	i		29	11.5																				
	is			22.5																				
	I regional																							
26	iP	13	58	44.1		-20	+38	-105									iPE	13	59	02.5				
	is			45.3		200	180	200									is			04.5				
	II local - 6 mi. NNE																I local							
27	iP	04	46	53	1.2			+									iP	04	46	56				
	Trace distant																Trace distant							
27	iP	07	47	15					iP	07	47	16.5					iP	07	47	18				+
	iP			34.5					iP			42.5					i			24				
	iP			42.0	1.2					I distant							i			32				
	e		57	35														II distant						
	e		58	09	2.2																			
	I distant																							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF August 1945 9.

Time used is

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
27	iP	09	14	32.5					i	09	14	36					iP	09	14	41				
	iP			42.5					iP			46					i		15	01				
	iP			49.7					iP		15	18					iP			43				
	e		15	45.5					is		16	08.5					is		16	21				
	es		16	04.5				225		II regional								II regional						
		II regional																						
27	iP	11	26	14.8					iP	11	26	27.4					e	11	26	13				
	iP			16.6					i			35					iP		27	22				
	i			24.5					i			45					i			39				
	is			49.5					i		27	18.5					i			08				
	is			54.5				120		I regional								I regional						
	I regional																							
28	eP	13	02	48.5					e	13	02	55						13	02	51.6				+
	I distant								iP		13	06						I distant						
									I distant															
28	iP	19	32	49													iP	19	32	45				
	iP		33	37													iP		33	39				
	I distant																	I distant						
28	iP	20	48	32.5					eN	20	48	34					iP	20	48	29				
	i			45.5					iP			43					i			39				
	I distant								I distant									I distant						
28	eP	23	52	09													e	23	52	29				
	Trace distant																	Trace distant						
29	iP	10	35	30.5	1.0			+	iP	10	35	33						10	35	33.6				+
	iP			48.5	1.3			275	e		36	05							36	37				
	eT		45	23					I distant									II distant						
	eS		46	36																				
	e		47	43																				
	iPKKP		53	36	1.5																			
	ePPP	11	22	21	1.5																			
	coda				16																			
	II distant																							

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Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29	e	13	00	35	2.0			
	i		01	16	1.0			
		Trace distant?						
29								
30	iP	02	59	36.5				
		Trace distant						
30	iP	17	05	27.5	1.3			+
	e		08	02				
	e			29				.
		I distant						
30	eP	23	42	10				
	e		52	28				
		I distant						
31	iPZ	00	21	05.6				
	iNE			38.6				
	iZ			41				
		Trace regional - barely perceptible						
31	i	09	12.2		Trace local - 6 mi.			
31	iP	09	57	00	1.0			+
		I distant						
31	iPZ	11	12	39.8				
	iN			41.3				
	e		13	20.3				
		Trace regional						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	17	06	34				
i		08	36				
e			52.6				
e		09	12.6				
	I distant						
eP	23	42	19.4				
e			28				
	I distant						
e	00	22	01				
i			19.8				
	Trace regional						
iPE	09	57	34				
	I distant						
iPE	11	13	41				
iE		14	00				
	Trace regional						

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	13	00	33				
i			42				
	Trace distant						
iP	23	59	40.4				-
i	24	00	04				
	I distant						
iP	17	05	25				
i			45				
e		08	43				
	I distant						
iP	23	42	16				
e			53				
	I distant						
e	00	21	19				
iP			53				
	Trace regional						
iP	09	57	03				+
	I distant						
e	11	21	48				
i		13	33				
	Trace regional						

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
31	IP	15	55	24																				
	I			52																				
	Trace distant																							
31	eP	18	02	49					e	18	03	57.5					iP	18	02	53				
	I distant									I distant								I distant						
31	i	19	29.3		Trace local - 2 mi.																			

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Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
1	eP	22 59 46	3		e(N)	22 57 31.5			eE	23 02 29		
	eP	23 01 55			eF	39.5			e	03 17		
	e	03 05			e	23 03 32.5			Trace distant			
	e	12.2	8			Trace distant						
	e	13 22	10									
	i	55	1.5									
	e	33.5	30									
	coda		15									
	I distant											
2	iP	03 08 57.5	1.0	+					iP	03 08 57		
	e	19 22	1.0						i	09 07		
	I distant								I distant			
2	i	04 51.6	Trace local - 7 mi.									
2									iP	09 07 49		
									I distant			
2	iP	12 07 51	1.5	+	eE	12 07 50			iP	12 07 49		
	e	10 39			iE	08 09			i	11 59		
	i	57	1.5		iE	25			I distant			
	ePP?	11 55	2.2		iE	35						
	eSKS	18 28			iE	11 26						
	eSKKS	19 04	4		iE	31						
	ePKKP	23 52	1.5		iE	12 26						
	ipPKKP	24 16	1.5		Trace distant							
	ePP?	31 53	2.5									
	I distant											
2	eP	17 56 39										
	Trace distant				Confidential-not for publication.							
3	i	02 28.8	Trace local									
3	iP	04 27 55.5		-5 +10 -15	iE	04 27 56.4						
	iZ	58.0			iFE	28 07						
	I local - 12½ mi. NNW				Trace local							

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Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
3	iP	19	42	43	1.3			+
		I distant						
4	eP	03	09	07				
		Trace distant						
4	iP	07	45	13				
		Trace distant						
4	iP	11	14	52.2				+2
	iP			57.5				-20
	iP			58.7			-60+30	-75
	m							300
	e		15	27.3				
	is			37.8				
	is			43.8				
	II regional - 210 mi. NNW							
4								
5	iP	15	49	51.5				
	I distant							
5	iP	22	02	06				
	i			20.5				
	iPP		05	55	2.3			
	is		12	47				
	e		13	13				
	coda				16			
	II distant							
6	iP	01	39	45.0				
	i		40	23				
	i		43	33.5				
	eS		50	24				
	eS			42				
	I distant							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	19	42	46.4				
I distant							
eP	03	09	06				
Trace distant							
eP	07	45	49				
Trace distant							
iPE	11	14	54				
is			01.4				
is			20.4				
is			41.4				
II regional							
e(E)	22	02	11				
I distant							
iP(E)	01	39	52				
i		40	10				
I distant							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	19	42	43				
I distant							
eP	03	09	01.5				
Trace distant							
iP	07	45	47				
Trace distant							
iP	11	14	59				
iP		15	08				
i			48				
II regional							
iP	12	18	02.6				
I distant							
iP	22	02	10				
iPP		05	59				
is(E)		12	52				
I distant							
iP	01	39	49				
i		40	44				
I distant							

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LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF September 1945 3.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
6	eP	11 41 54							iP	11 41 57.7		
	i	47 28								Trace distant		
		Trace distant										
7	iP	02 49 17.5	.7		iP	02 49 17			iP	02 49 20		
	i	46.5	1.5			Trace regional			i	51		
		I regional								I regional		
7	iP	06 15 18.5	1.3		iP	06 15 19			iP	06 15 22		
		I distant				Trace distant				I distant		
7	iP	06 23 42.5			iP	06 23 45			iP	06 23 45		
	e	27 24				Trace distant				I distant		
	e	28 30										
		I distant										
7	iP	11 02 32							iP	11 02 31		
		I distant								I distant		
7	eP	11 25 32.5			e	11 25 47			eP	11 25 48		
	eP	45.5			eP	55.3			e	26 02		
	e	26 39				Trace regional				I regional		
	e	54										
		I regional										
7	iP	14 46 26.9							iP	14 46 22		
	e	45.2								I regional		
	eS	47 49										
		Trace regional										
7	iP	15 35 04.7			iP(E)	15 35 24						
	iP	11.2				36 03						
	iP	15.4				II regional						
	iP	22.2										
	iS	40.2										
	iS	44										
		II regional										

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
7	iP	15	46	01.2					i(E)	15	45	58												
	i			39.0					Trace regional															
	i			49																				
	Trace regional																							
7	iP	16	01	23.5																				
	iP			49																				
	e		05	26																				
	I distant																							
7-8	5 local shocks - trace and I 4-5 mi.																							
8									i(E)	19	49	23												
									iP			45												
9	eP	01	14	18																				
	e		21	35																				
	Trace distant																							
9	eP	04	15	47													iP	04	15	59				
	e		19.5		7													I distant						
	eS		26	23																				
	I distant																							
9																	iP	09	15	38				
																		I distant						
9	eP	13	06	40					eP	13	06	43					iP	13	06	38				
	e		07	00					e		07	14						I distant						
	e		09	44					e			21												
	I distant								I distant															
10	i	03	25.2		Trace local - 7 mi.																			
10	iP	08	12	26.5	.9		-		iP(E)	08	12	18.3					iP	08	12	30				
	i		13	28					iP			37.3					i			43				
	I distant?								I distant								I distant							

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Time used is

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
10	iP	14 11 36				
		Trace distant				
10-11	2 traces local shocks - 4 mi.					
11	iP	02 01 41.5				
	i	43.5				
	is	02 06				
		I regional				
11	eP	18 11 03				
		Trace distant				
11	iP	19 23 07	1.0	+	+	+50
	eP	39				
	e	25 00	1.5			
	i	26 32	1.5			
	is	32 44	2.0			
	i	59				
	e	33 17	2.5			
		I distant				
12	eP	01 08 55				
		20 22				
		I distant				
12	eP	15 51 30				
		I distant				
12						
12	iP	20 05 44	1.2	+		
	e	06 04				
		I distant				
OVERTON						
	iP(x)	14 11 38				
		Trace distant				
	iP	02 01 06.5				
	i	23				
	i	43				
		I regional				
	iP(x)	19 23 10				
	i	25 06				
	i	26 09				
		I distant				
PIERCE FERRY						
	iP	14 11 38				
	i	40				
		Trace distant				
	iP	02 01 52				
	is	02 25				
		I regional				
	iP	18 11 03				
		Trace distant				
	iP	19 23 10				+
	i	25 04				
		I distant				
	iP	01 08 59				
	i	09 10				
		I distant				
	iP	15 51 28.8				
	i	49.8				
		I distant				
	iP	19 05 21				
		I local - 10 mi.				
	iP	20 05 47				
	i	58.8				
		I distant				

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Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
12	eP	21	28	33				
	e		32	22				
	I distant							
13	iP	00	22	13				+?
	iS			14.8				
	I local - 9 mi.							
13	eP	09	12	12				
	I distant							
13	eP	11	29	17		+	-	-
	m				1.2			175
	iP			40				
	m				1.5			190
	e?		38	42				
	eS		39	16	6			
	e		55	50	6			
	e		59	16	7			
	e	12	00	02	4			
	e		16	22	5			
	e		19	36	6			
	II distant							
13	iP	23	47	42				
	Trace distant							
13-14	4 traces local shocks - 5 mi.							
14	eP	02	14	07				
	iP			12				
	e		25	22				
	I distant							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	09	12	12				
e			18				
Trace distant							
iPE	11	29	20		-	+	-
iE			43				
iSE	39	39	22				
II distant							
eP	02	14	11				
iP			20				
I distant							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	21	28	36.7				
e			52				
I distant							
iP	09	12	13				
e			45				
I distant							
iP	11	29	16				-
i			40				
iSE		39	15				
II distant							
iP	23	47	45				
Trace distant							
e	02	14	02				
iP			08				
i			17				
I distant							

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Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
15								
(38) 15	iP	22	12	09.45		+110	-57	-320
	iN			11.3			-90	
	iSENZ			11.5				590
	II local - 10½ mi. E							
15-16	4 traces local shocks - 5 mi.							
16	eP?	01	50	31				
	eF			40				
	Trace distant							
16	iP	14	11	59.9		+10	+10	-30
	iP		12	00.4				
	iS			01.7				
	iS			02.0				
	I local - 9 mi. NE							
17	eP	00	52	49				
	eS		59	33				
	I distant							
18	eP	03	16	57				
	I distant							
18								
18	iP	22	39	38.8				
	iP			54.3				
	e		40	33				
	iS			51				
	II regional							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	19	54	34				
i			36				
i			41				
I regional							
i	22	12	16.8				
i			22.9				
iS			24.1				
iS			24.9				
I local - 36 mi.							
ePN	01	50	15				
ePN			49				
I distant							
ePN	00	52	53				
I distant							
e	03	16	59				
I distant							
iP	22	11	29				
I local							
iP	22	39	39				
iP			47				
i		40	39				
iS		41	05				
II regional							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	22	12	17.0				
i			18.9				
i			21.0				
iS			23.9				
iS?			24.9				
I local - 37½ mi.							
e	01	50	27.7				
I distant							
eP	00	52	44				
i			58				
I distant							
iP	03	17	01				
1	22	39	41				
iP			56				
i		40	54				
II regional							

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Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
19	i	05	25.5		I local - 5 mi.			
19	iP	12	39	30.5				+25
	i			48				
	eS		48	58				
	e		49	38				
	I distant							
19	eP	17	16	03				
	Trace distant							
19	i	17	25.3		I local - 5 mi.			
19	iP	18	45	33.5				
	Trace distant							
19	i	20	34.5		Trace local - 8 mi.			
20	iP	02	04	23				
	i			57				
	I distant							
20	eP	04	51	16				
	Trace distant							
22	iP	09	06	27.2				-
	iP			34.7				+
	iZ			58.7				
	eSN		07	10.7				
	iSEZ			12.2				
	I regional							
23	iPZ	10	00	41				
	eE		03	19				
	eSE		04	00				
	I distant							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	12	39	31				
i			46				
I distant							
eP(E)	17	16	09				
Trace distant							
iP	02	04	29.5				
i			48.5				
I distant							
eP	04	51	17.4				
Trace distant							
iPE	09	06	48				
iE			55				
iE		07	30				
I regional							
iE	10	00	39				
eE		03	15				
iE			36				
iE			49				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	12	39	33				
i			43				
I distant							
eP	17	14	35				
Trace distant							
iP	18	45	30				
Trace distant							
iP	02	04	26.5				
I distant							
	04	51	19				
Trace distant							
iP	09	06	34.7				
i			45				
i		07	40				
I regional							
iP	10	00	45				
iE		03	55				
I distant							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF September 194 9.

Time used is

M-1073-4

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s			Period T	Trace Amplitude E	N	Z	Phase	Time h m s			Period T	Trace Amplitude E	N	Z	Phase	Time h m s			Period T	Trace Amplitude E	N	Z
23	iP	14	31	26.8		-107	+2	-																
	iS			28.6																				
	I local - 9 mi. W																							
23	iP	15	47	24	1.2			+	iPE	15	47	22.7					iP	15	47	24.6				
	I distant								I distant								I distant							
23	iP	17	25	14	1.3	+	-	-24	iPE	17	25	18.2					iP	17	25	11.5				
	i							220	iE			30					i			23.0				
	iE			55					iE			43					iS		31	27.5				
	e		28	51	4.0				iSE		31	44					I distant							
	i		31	11	1.5				I distant															
	e		32	06																				
	II distant																							
23	i	19	48.2		Trace	local - 6 mi.											i	19	45	28				
																		Trace local						
24	eP?	04	20	29					eP	04	20	30					iP	04	20	18				
	eP			50					i		21	15					i			34				
	iE		21	40					i		22	22					iS		22	02				
	eS		22	11					I regional								I regional							
	I regional																							
24	iP	12	48	18					iPE	12	48	27.5					iP	12	48	21				
	i			44.5					iE			56					i			46				
	i		49	14					iSE		52	45					i		49	19				
	iS		52	24					I distant								iS		52	11				
	I distant																I distant							
24	iP	17	47	28.75			-30	+45	+140	iP	17	47	39.2				iP	17	47	39.7				
	iS			30.2					270	i			44.2				iS			49.6				
	II local - 7 mi. SSE									iS			49.3				Trace local							
													52.4											
										Trace local														
25	i	16	31.8		Trace	local - 5 mi.																		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF September 1945 10.

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
26	iP	03	05	03.9		+	+?	+35									i	03	05	26				
	is			04.9				160										Trace local						
		I local - 5 mi. SW																						
26	sP?	03	44	45					eP	03	44	56					iP	03	44	49				
	e			53					e			34						I distant						
		I distant								Trace distant														
26	iP	14	35	42				+	iP	14	35	32					iP	14	35	26.6				
	i		36	19						I distant							i			38				
	e		38	03													e			59				
		I distant																I distant						
27	eP	23	20	43													iP	23	20	48				
		Trace distant																I distant						
27-27	3 traces local shocks - 5 mi.																							
28	eP	22	26	44	4			+	ePE	22	26	25.5					iP	22	26	54				
	iP			47.5	2	+	+	+	iPE			32.5					i		27	09.5				
	e		27	40					iE			50.5					e		30	40				
	eS		28	29						II distant								II distant						
	e		29	07	10																			
	m				13																			
	coda		30.5		7																			
	II distant? or regional																							
28	iP	23	50	21.5	.7	+	-	+35	iPE	23	50	01.5					iP	23	50	23				
	i		51	15.5					iE			34.5					i			47				
	I distant?																I distant							
29	iP	04	55	56													iP	04	56	00				
	I distant																I distant							
29-30	6 local shocks 5-6 mi.																							
	Class I																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT.....OCTOBER, 1945

The stations at Boulder City, Boulder Dam, Overton, and Pierce Ferry operated on routine schedules throughout October, 1945.

In the following report symbol I represents shocks with small trace amplitude on record, II represents a fairly well recorded shock and a barely recorded shock is marked "Trace," III large Trace Amplitudes. Local shocks are less than 70 miles, Regional shocks from 70 to 700 miles. Regional shocks of unknown Distance may be classed as Distant.

Epicenters located as follows:

No.	Date Oct.	G.C.T.	Location of Epicenter
39	18	13:34:29.4	4 miles ENE Boulder Wash and 24 miles NE of Boulder City. Depth of focus about 11 miles.
40	27	09:16:36.1	2½ miles West of Boulder Dam.
41	28	15:19:48.9	East slope of Fortification Hill. 4½ miles ENE of Boulder Dam.

The following shocks were reported felt in the Lake Mead Region. (Roman numerals are intensity grades as estimated by modified Mercalli Scale of 1931.)

No.	Date Oct.	G.C.T.	Intensity and Description
40			
~~15~~	27	09:16:36.1	IV At Boulder City. Rattled windows and door. Felt by many in Community.

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 1945 1.

Time used is

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
2	iP	00	50	13.8				
	i			37.8				
		I distant						
2	~~e~~	02	22	03.8				
	i			14.5				
		Trace distant Regional near Borrego Valley, Calif						
2	iP	11	43.5		I local - 5 mi.			
2								
2	ePE	22	51	08.0				
	ePZ	Trace distant 14.5						
	iP	22	27	41.5				
3	15 ~~i~~	04	28	12				
	i			19.8				
		I regional near Barrett, Calif.						
3	iPE	06	25	55.8				
		I distant						
4	e	15	20	34.0				
	~~P~~ e		21	24.0				
	~~i~~ e			44.0				
	i			53.0				
		I regional						
5	iP	03	22	23				
	~~i~~			35				
	~~i~~			44.5				
		I distant						
5	iP	23	24	07.5				
	~~i~~ e			27.8				
		I regional						
1	e	05	36	09	2.5	Trace Distant		

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eE	12	31	11				
	I regional						
eP	04	28	21				
i		29	03				
	I regional						
ePE	06	26	26				
	I distant						

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	00	50	11				
	I distant						
e	02	22	07				
	I distant or regional						
iP	12	30	46				
i		31	08				
	I regional						
iP	22	51	14				
eP	04	27	44				
is		28	39				
	I regional						
iP	06	25	30				
	I distant						
iP	03	22	26				
	I distant						
iP	23	24	03				
	I regional						

M-1073 International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 1945 2.

Time used is

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
6	e	22 08 13				
	iP	18				
	i	23.5				
	I distant					
7	iP	03 42 51.5				
	i	43 00.5				
	I distant					
7	iP	13 30 02		+25	-20	-75
	i	31				
	i	31 06				
	i	32 45				
	eZ	36 36				
	eE	48				
	eSE	40 36				
	II distant					
	(Off Coast of El Salvador) CGS, 12.3° N, 89.0° W; o = 13:23.4 Δ = 2300 mi.					
7						
8	e?	04 46 47.5				
	eP	52				
	iS	47 29				
	I regional					
8	iP	05 55 16.5	1.5			
	Trace distant					
9	iP	11 08 31.4		+	+	
	i	42.4				
	I distant					

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
OVERTON						

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY						
	eP	22 08 20				
	I distant					
	iP	03 42 56				
	I distant					
	iP	13 29 58				
	i	31 15				
	eS	39 30.5				
	I distant					
.7	iP	20 00 37				
	I distant					
	iP	04 46 51				
	i	47 37				
	I regional					
	05 55 15					
	I distant					
	iP	11 08 33				
	I distant					

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 1945

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
9	iP	14 47 45		+ - -					iP	14 47 48		
	i	48 06							i	48 19		
	eS	56 54							eS	57 00		
	I distant		CGS, 43° N, 150° E. (Eof Hokkaido Island, Japan) o = 14:36.6; Δ = 4850 mi.						II distant			
9	e	15 15 25.5							eP	15 15 25		
	e	59.5							Trace distant			
	Trace distant											
9	e	23 03 53								23 03 57		
	Trace distant									Trace distant		
9	eP	23 40 04.5							iP	23 39 48		
	eS	48							i	40 55		
	iSZ	50							I regional			
	I regional		SE of LaGuna, Salada, Calif.									
10	iP	18 43.6	I local - 5 mi.									
10	e	18 51 27							iP	18 51 28		
	Trace ~~dist~~ regional								Trace distant			
10	iP	19 15.4	Trace local - 5 mi.									
11	iP	16 54.8	I local - 5 mi.									
11	iP	16 58 02		+ - -					iP	16 57 58		
	i	24.5							i	58 18		
	eSN	17 00 59							eS	17 05 06		
	eE	05 51.5							II distant			
	II distant		CGS 17° N, 97° W. (Oaxaca State, Mexico) o = 16:52.7; Δ = 1710 mi.									
12	e?	20 58 43							eP	20 58 36		
	e	48							i	43		
	Trace distant								i	45		
									Trace distant			

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 1945

Time used is

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International Seismological Centre

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
12	iP	23 50.9	I local - 12 mi.												iP	23 51.25	Trace local				
13	iP	04 53.1	Trace local - 5 mi.																		
13	iP i iS	05 23 43.5 46.5 24 09.5 I regional													iP i	05 23 41 24 06 I regional					
14	eP	04 18 49 I distant	2.5					eP	04 18 53 I distant						iP i eP	04 17 08 18 14 53 I distant					
14	iP	04 28 05.5 Trace distant						iP	04 28 09.5 I distant						iP	04 28 09 I distant					
14	i	15 01.3 I local - 7 mi.													eP	15 01 28 Trace local					
15	iP e	08 07 11 16 10 Trace distant	CGS, 59° N, 140° W, (off Yakutat, Alaska-felt) o = 08:01.2, Δ = 2000 mi.					ePE	08 07 08 Trace distant						iP	08 07 13 I distant					
15	iP	18 35 16 Trace distant						ePE	18 35 14 Trace distant						dPE	18 35 16.5 I distant					
15	iP	20 44.6	I local - 5 mi.												iPE	20 45.0	Local trace				
16	e	02 27 41 Trace distant						ePE	02 27 57 Trace distant						eE	02 27 47 Trace distant					
16	eP' e	16 21 38 53.5 I distant CGS, 0.5°N, 126.0° E, (Molukka Passage), o = 16:03.1; Δ = 114° (7850 mi.)						ePE	16 21 36.5 I distant						eP eP'E	16 18 05 21 43 I distant					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 1945 5.

Time used is

No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z
16	eP	18 37 03			ePE	18 37 00.5			ePE	18 36 45		
	iS?	38 24.				I distant			iPE	52		
		I distant or regional							iE	38 04		
										I distant		
17									iP	07 58 26	I local - 8 mi.	
17	iP	23 54 01							ePE	23 54 01		
		Trace distant								Trace distant		
18	iP	03 05.1	Trace local - 4 mi.									
(39) 18	iP	13 34 29.3		+ + -	iP	13 34 29.2		+ + -	iP	13 34 30.2		- 0 -
Epicenter a-	i	30.2			i	30.2			iSZ	32.2		
bout 4 mi. ENE	i	31.0			i	33.1			iSE	36.0		
Boulder Wash	i	32.6			iSZ	33.8				II local - 30 mi.		
& about 24 mi	iSE	34.9			iSE	34.4						
NE of Boulder		I local - 27 mi.				II local - 26 mi.						
City. Depth of focus about 11 mi.												
18	eP	14 02 59			ePE	14 03 01			ePE	14 03 04		
		Trace distant				Trace distant				Trace distant		
19	iP	13 29.8	I local - 12 mi.						iE	13 29 55		
									i	30 02		
										Trace local		
19	iP	16 58 51.6		+	iP	16 58 59			iP	16 58 53		
	e	59 42				Trace regional			i	59 03		
	eS	58							i	42		
		I regional Gulf of California								I regional		
20	e	00 36 41			ePE	00 36 45			iP	00 36 51		
	iP	52.5				I distant				I distant		
		I distant										

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 1945

Time used is

International Seismological Centre

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
20	e	01	47	41					iPE	01	47	41					iP	01	47	43				
		Trace distant								I distant								I distant						
20	iP	14	18	46.5					iPE	14	18	45					iP	14	18	47				
		Trace distant								I distant								I distant						
20	iP	22	20.0		I local - 7 mi.												iPE	22	20.8		local trace			
20	iP	22	44	45.8					ePE	22	44	43					eP	22	44	50				
		Trace distant								Trace distant								Trace distant						
21	e	00	33	48					ePE	00	33	55					iP	00	34	17				
	iP		34	04						Trace distant								I distant						
	Trace distant																							
21	eP	02	25	01.5					ePE	02	25	13					iP	02	25	12				
		Trace distant								Trace distant								Trace distant						
21	iP	03	35	01					ePE	03	35	08					eP	03	35	33				
		Trace distant								Trace distant								Trace distant						
21	iP	07	16	14				+									iP	07	16	46.5				
		I distant																I distant						
22	iP	19	39.2														iP	19	40.0					
		I local - 5 mi.																Local trace - hardly perceptible						
24	iP?	04	08	02													iP	04	07	42				
	i			31														I regional						
	Trace regional - SE of LaGuna Salada																							
24	iP	05	27	38.5													iP	05	28	11				
		Trace distant																I distant						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 1945 7.

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24	iP	07	04.2			Trace local - 5 mi.																		
24	iP	20	58	30																				
	iS			31.																				
		I local - 5 mi.																						
25	iP	03	13	50.5																				
		Trace regional																						
25	e	08	55	03					eiE	08	55	05.5					eP	08	55	09				
	i			09						I distant								Trace distant						
	Trace distant																							
25	iP	15	08	24		+12	-12	+	eiE	15	08	23					iP	15	08	27				
	i			29					iE			56					i		11	50.5				
	i		11	46						I distant							i		12	41				
	i		12	40														I distant						
	eS		16	18																				
	I distant				008, 56.1° N, 102° E, (Kamchatka)																			
					o = 14:58.5, Δ = 4000 mi. (58°9																			
24-25	6	6 traces local 4-5 mi. 2-16 mi.																						
25	eP	16	53	32					ePE	16	53	38.2					eP	16	53	37				
	i			38						I distant								I distant						
	I distant																							
25	iP	17	49	34					ePE	17	49	33.5					iP	17	49	37				
	i			42						Trace distant								I distant						
	Trace distant																							
26	iP	02	49	11.5					iPE	02	49	05					i	02	49	07				
	i			14.5					i			35.5					iP			10				
	i			49						I regional							i			22				
	I regional																i			47				
																		I regional						

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 1945 8.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
26	iP	09 37 37 I distant					iPe	09 37 41 I distant					iP	09 37 41 I distant				
26	iP	13 36.4	I local - 5 mi.															
27	iP	04 13 07.5 Trace distant					ePE	04 13 08.5 Trace distant					iP	04 13 11.5 I distant				
27	iP i	04 25 16 34 Trace distant					ePE	04 25 17 Trace distant					iP	04 25 19.5 Trace distant				
27	iP	06 52 53 Trace distant					ePE	06 52 53 Trace distant					iP	06 52 57 I distant				
(40) 27 Epicenter 2½ mi. W. of Boulder Dam. Felt in Boulder City.	iP iS	09 16 36.1 37.1 III local - 5 mi. NE		-48	-40	+	eN iN eS eS	09 16 47 47.6 54.2 54.5 41 mi.					iP i i eS e	09 16 47 48.3 56.9 58.1 17 00.8 44 mi.		+	0	+
27	iP iS	09 17 35.9 36.8 I local - 5 mi.		-	?	+												
27	iP iP iPP iPcP eS iPcS iScP	11 30 28 49 31 11.5 33 28 35 11 36 48 40 46 II distant	1.5 1.4	-	+	+	iPE	11 31 00 26 I distant					iP i iS iSE	11 30 24 31 07 36 48 40 37 I distant				
		CGS, 15° N, 91° W, (Guatamala) o = 11:24.5																
28	iP iP eS?	05 50 16.5 51 01 06 00 18 I distant				M16	ePE	05 50 48 51 37 I distant					iP i	05 50 20 51 05 I distant				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 1945 9.

Time used is

M-1072

		BOULDER CITY							OVERTON							PIERCE FERRY						
	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
(41)	28	iP	19	59	48.9		15	-2	-	iPE	19	59	56.8					iP	19	59	56.6				
Epicenter E.		i			49.9					e	20	00	04.3					iS	20	00	04.1				
slope of Fort		i			50.3					eS			04.9					iS			04.7				
ification		iN			50.5					i			08.1					i			08.2				
hill - 4½ mi.		iS			51.0					II local - 38.5 mi.								II local - 38.0 mi.							
ENE of Boulder		i			57.8																				
Dam.		II local - 10.7 mi. E																							
	28	e	20	34	53.0					ePE	20	34	54					eP	20	34	36				
		Trace distant									Trace distant								Trace distant						
	29	iP	05	11	13.5					ePE	05	11	19					iP	05	11	18				
		i			27						I distant							i			31				
		I distant																I distant							
	29	iP	10	15	44					ePE	10	15	37					iP	10	15	47				
		Trace distant									Trace distant								I distant						
	29	iP	10	58	46					ePE	10	58	43					iP	10	58	49				
		i		59	00						II distant								II distant						
		e		01	45																				
		e		02	41																				
		i	11	06	46	1.5																			
		II distant CGS, 52° N, 131° W, (off British Columbia) o = 10:54.3; Δ = 1370 mi.																							
	29	iP	11	51	23.					ePE	11	51	26					iP	11	51	19				
		i			31.5						I distant								I distant						
		I distant																							
	29	iP	15	21	46					ePE	15	21	47.6					eP	15	21	48				
		Trace regional									Trace regional								Trace regional						
	31	iP	02	36.9		Trace local - 6 mi.																			
	31	iP	03	03.7		Trace local - 5 mi.																			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 1945 10.

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
31	e?	20	42	34					eFE	20	42	41					iP	20	42	44				
	iP			39.5					i		43	24					i			52				
	i			44					I regional										43	33.5				
	e		43	16													I regional							
	i			20.5																				
	I regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT.....NOVEMBER 1945

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedules throughout November 1945.

In the following report symbol I represents shocks with small trace amplitude on record, II represents a fairly well recorded shock, III large trace amplitudes and a barely recorded shock is marked "Trace". Local shocks are less than 70 miles, Regional shocks from 70 to 700 miles. Regional shocks of unknown distance may be classed as distant.

Local Epicenters were located as follows:

No	Date Nov,	G.C.T.	Location of Epicenter
42	7	22:25:49.7	3.5 miles SE of Boulder City.
43	10	19:47:50.7	In Black Mountains about one miles South of Black Canyon and twleve miles NE of Boulder Dam.

The following shocks were reported felt in Lake Mead region. (Roman numerals are intensity grades as estimated by Modified Mercalli scale of 1931).

Ep. No.	Date	G.C.T.	Intensity Description
42	7	22:25:49.7	IV at Boulder City - Rattled Windows - felt by many - also III at Boulder Dam - 8th floor Power House - Duration 5 sec.
	16	10:48:28	II at Boulder City - Felt by one person.
	28	09:50:44	II at Boulder City - felt by one person.

Confidential-not for publication.

M-1073 International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1946 1.

Time used is

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	BOULDER CITY	iP	11	38	18.5				
		i			25				
		i			49				
		iS		39	07				
		I regional							
	OVERTON	e	11	38	02				
		iP			05				
		I regional							
	PIERCE FERRY	eP	11	38	13				
		iP			15				
		I regional							
1	OVERTON	e	23	52.1					
		Trace surface waves							
	PIERCE FERRY	e	20	29	58				
		e		35	18				
		Trace distant							
2	BOULDER CITY	iP	00	06	19.5				
		iS			20.5				
		I local - 5 mi.							
2	BOULDER CITY	eP	17	49	21				
		iP			22				
		eS		57	33				
		I distant							
	PIERCE FERRY	iP	17	49	19				
		I distant							
3	BOULDER CITY	eP	04	09	47				
		eS		13	10				
	OVERTON	e	04	09.4					
		I trace distant							
	PIERCE FERRY	iP	04	09	45				
		Trace distant							
3	OVERTON	eP	06	35	17				
		I trace distant							
	PIERCE FERRY	iP	06	35	17.5				
		Trace regional							
3	OVERTON	eP	08	14	14				
		I trace distant							
3	OVERTON	e	08	58.3					
		I surface waves							
	PIERCE FERRY	iP	08	58	07				
		Trace regional							
3	BOULDER CITY	iP	22	15	40		-	+	-
		iP			51				
		eS		21	01				
		e		22	04.5				
		e			24.5				
		I distant - 058 59.1° N, 151.0° W, (SE of Kenai Peninsula) Δ = 2300 miles (34°)							
	OVERTON	iPN	22	15	38				
		iPEZ			39				
		ipPorPP			54				
		eS		22	03				
		I distant deep							
	PIERCE FERRY	iP	22	15	42.5	1.5			+19
		i			55				
		II distant							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1945

Time used is

No. Date	Phase	BOULDER CITY Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h	m	s	Period T	Trace Amplitude E	N	Z
4	eP	16	45	29.5													iP	16	45	34.5				
	i			37													e		46	35				
	i		46	22.5													I regional							
	i			23																				
	I regional (North of Bridgeport, California)																							
5	iP	17	44	01.1					iS	17	44	20.0					iP	17	44	10.8				
	iP			02.7						ca 92 mi.							iP			12.0				
	e			16													iS			33.5				
	iS			19													iS	35.5		35.5				
	I regional - 90 mi. Epicenter, Frnechman Flat area, 85-90 mi. NW of																BC. ca 120 mi.							
5	i	23	00.5		Trace local - 5 mi.																			
42 7	iP	22	25	49.7		-520	+210	?	iP	22	26	00.4					iP	22	26	00.6		-	0	-
	iE			50.6		+	-	-	i	-		01.0					i			02.6				
	iS?			51.3					e			03.8					i			03.0				
	III local - 8 mi. Felt at Boulder Dam and Boulder City Epicenter 3½ mi. SE of Boulder City.								i			06.9					eS			09.5				
									iS			09.4					iS			10.0				
									i	19.3		19.5					i			14.3				
									I local - 35½ mi.								II local - 36 mi.							
7	i	22	34	09		+	-	-																
	i			10																				
	No reports of being felt. Aftershock																							
7	i	23	51	54		-105	+60	+255																
	i			54.8																				
	II Local - 4 mi. Aftershock																							
7	i	23	56	17																				
	I local - aftershock																							
7	i	23	56	38																				
	i			38.8																				
	II local - aftershock																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1945

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
8					iP	02 43 49			iP	02 43 45		
						I trace				I distant		
8	eP	09 15 26			e	09 10.3			e	09 15 06		
	eL	34.9				I trace distant				I distant		
	CGS 81°N, 7°W, (Northern Greenland)				0 = 09:05.5; Δ = 3935 mi.							
8	eP	10 12 20			e	10 12 21			iP	10 12 19		
	i	15 11				I trace				I distnat		
	eS	20 06										
	I distant - CGS 81° N, 7° W, (Northern Greenland)				0 = 10:02.5; Δ - 3935				mi.			
8	iP	11 20 11.5			iP	11 20 30.5			iP	11 20 20		
	iP	19			iS	21 15			iS	21 15		
	iS	55				I regional				I regional		
	I regional											
8	iP	13 07 37			eP	13 08 00			iP	13 07 45		
	iP	44.5			eP	41			iS	08 08 42		
	eS	08 20.5				I regional trace				I regional		
	I regional - (Northeast of Riverside, California)											
8	eP	20 10 59			eP	20 10 51			e	20 10 48		
	eSN	12 18			i	11 06			S	11 12		
	I distant or regional weak				iS	I regional 11 50			e	12 57		
										I distant or regional		
9	iP	01 05 19.1		- +					e	01 05 30		
	i	19.7								Trace local		
	i	20.6										
	II local - aftershock of 11/7 not felt											
9	i	05 50 02										
	iS	02.8										
	I local - 4 mi.											
9									iP	13 49 21		
										I regional		

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1945 4.

Time used is

		BOULDER CITY								OVERTON								PIERCE FERRY							
	NO. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	9	i	16	45.6		Trace	local - 14 mi.																		
	10																	e	00	09	07.5				
																		I distant							
	10																	e	03	08	24.5				
																		e		09	08				
																		I regional							
	10	eP	19	07	33.5													iP	19	07	37				
		iS		11	34.5													I distant							
		I distant																							
	10	iPeNE	19	41	00				-									i	19	41	05				
		iSeNE			04													iP			12				
		I local																iS			13				
																		I local							
43	10	iPzNE	19	47	50.7		+28	+22	-77	eE?	19	47	54.4		+6	+9	?	iP	19	47	55.1		-15	-5	-25
		iN			54.0					i			56.6					iS		48	01.5				
		iSeNE			54.2					i			57.8					iSE			02.0				
		I local - 17.8 mi. S-P = 3.5								iS			59.7					I local 33mi.							
		Epicenter in Black Mtn. about 12 mi. NE of Boulder Dam and i mi. South of Boulder Canyon.								iSN			00.1												
										iSN			19.4												
										i			20.7												
										I local - 30 mi.															
	10	ePz	21	04	12.5													iP	21	04	16				-12
		I distant																I distant							
	10	ezE	22	22	04					iP	22	22	08												
		I distant								I trace								eP	22-	22	05				
																		I distant							
	10	e	23	03	34													e	23	03	37				
		Trace Distant																iP			39				
																		I distant							
	12	ii	06	39.4		Trace	local - 5 mi.																		

M-1073 International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1945

Time used is

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
		BOULDER CITY						**OVERTON**						**PIERCE FERRY**				
12	3	0800± 3 traces local shocks -					ca 5 mi.											
13							e	01 13 37.5					1P	01 13 48				
								I trace						I distant				
13	eP	02 56 14											1P	02 56 11				
		56.1												I distant				
		I distant																
14	1	14 44 30.5					1P	14 44 44					1P	14 44 34				
	1P	47.8					iS	45 34					1	52				
	eS	45 16						I regional - Southern Calif.					eS	45 48				
	Faint trace regional						Near Caliente, California							I regional				
14													e	23 48 55				
													1P	49 07				
													iS	22				
														I regional				
15	1P	02 57 24			-	+	1P	02 57 32					e	02 57 26				
	1	31					iS	58 21					1	58 16				
	iS	58 02					iE	22.5	1.0		+			I regional				
	I regional - Near Clark Lake, Calif. I regional Trace																	
16	1P	10 48.5			+	+	-											
	I local - felt in area by several - 4 mi. NE																	
16	e	11 15 21.5											1P	11 15 19				
	I trace coda													Trace distant				
16	1P	12 41.7		Trace local - 8 mi.														
16	1P	18 08 01				+	eP	17 59 15					1P	18 08 33	1	-		+9
	1	16.2					iS	18 08 00	1.2	-6			eSK	16 46.5				
	I distant						eL	16 30						I distant				
								I distant										
	COE 57.7°N, 135.8° W (Felt Cross Sound, Alaska) O = 18-02.5 Δ = 1750 Mi.																	

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 194[illegible] 6.

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
17	i	07 32.3		-	+	-															
		I trace local - 7 mi.																			
17	i	10 09.2		-	+	+38															
		I local - 6 mi. SE																			
17	iP	19 47.7		I local - 6 mi.																	
17	eP	22 24 45						eP	22 24 45						iP	22 24 48					
		I distant							I distant							I distant					
18	iPN	01 08 34.5	.6	-	-	-9		eP	01 08 [illegible]					+9	iP	01 08 27.5	.5	-	?	-9	
	iP	42.5		+	+	+		iP	31						iP	32.5					
	iS	09 28						i	32						iP	33.5					
		II regional - 230+ mi.						iS	09 10						iS	09 12.5					
		Epicenter about 38.5°N, 112°W							II regional - 180 mi.							III regional - 190 mi.					
		Felt in Richfield, Utah and vicinity.																			
19								e	07 48.5		Trace I distant				e	07 48 15					
																Trace					
19	iP	19 56 26						e	19 56 30.5						e	19 54 34					
	ipP or PP	56							I trace distant						e	55 16					
		I distant														Tiny trace					
20	i	01 11.0		-	-	-															
		I local - 4 mi.																			
20	i	07 42.6		-	-	+															
		I local - 4 mi. SW																			
20								i	09 36 24												
									Trace distant												
20	iP	18 12 41						eP	18 12 43						iP	18 12 36					
	eS	20 25						e	20 12						e	20 11					
		I distant						eS	42							I distant					
									I distant												

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1945 7.

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
20	iP	20 23.5		-	+	+															
		I local - 5 mi. SE																			
20								i	20 59 22.5												
								i	25												
								i	28												
									I local												
20								i	21 24 50												
								i	51.5												
									I local												
21	iPz	08 53 41					+	ir	08 53 36						iP	08 53 39					
	isz	54 19						is	54 04						i	54 21					
		I regional - Southern Calif.						is	06							I regional					
									I regional												
22	iP	03 03.0	I local - 5 mi.																		
22								iP	20 19 57												
								is	58												
									I local												
22	i	21 09 43						iPz	21 09 47						e	21 09 44					
		Trace distant							I distant						iP	45					
																I distant					
23	i	03 03 38		-	-	+															
		Local - 5 mi. NE																			
23	eP	05 02 50				+6		e	05 02 53						iP	05 02 54					
	er	03 06	.7			+10		i	03 17						i	03 11					
		Trace distant							I trace distant						es	06 21					
																I distant					
24	eP	02 26 29						e	02 26 33						eP	02 26 31					
		I distant							I trace distant							I distant					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 194 8.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
25	i	09 04 51		+	+	-												
		I local - 4 mi. NE																
25	iP	19 14 07					ePE	19 14 15.5					iP	19 14 10.5				
	i	12					iE	33.5					i	56.5				
	i	31						I distant or regional						I distant or regional				
	e	15 16																
		II regional - Gulf of California																
26	iP	01 13 29.5					ePE	01 13 31					iP	01 13 27				
	i	15 30.5					i	15 33					i	15 27				
		Trace distant						Trace distant						Trace distant				
26	iP	04 42 55																
	eS	50 34																
		I distant																
26	iP	05 24 42	1.2	+28	+15	+175	iP	05 24 45.5	1.	+	+	+	iP	05 24 45	1	+25	+?	+72
	e	26 49					eS	34 15.5					eS	34 25				
	iS	34 13	2.5	+15				I distant						I distant				
	iPP	51 00																
		II distant - compression from SSW																
		Δt = 13.5 sec. CGS. Probably near 23° S, 180° W (SW of Tonga Islands) O = 05:12.9 Δ = 5900 mi.																
26	i	11 01.8	I local - 5 mi.															
27	i	04 29.5	I local - 4.5 mi.															
27	iP	05 40 42	2			6	eP	05 40 44					ePE	05 40 46				
		I distant						Trace distant						I distant				
27	eP	50 47 19					eE	10 47 24					eE	10 47 17				
		I distant						Trace distant					eS	54 35				
														I distant				
27	eP	12 41 58	Trace Distant															

International Seismological Centre
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	BOULDER CITY							OVERTON							PIERCE FERRY						
NO. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
27	eP	22	12	34					eP'	22	15	44					eP'E	22	15	41				
	iP'		15	45						II distant								I distant						
	i			46																				
	e		26.5																					
	coda				15																			
	II distant - CGS near 22° N, 62° E (Arabian Sea, Tidal wave killed 4000 ar Karachi, India-Press) O = 21:56.8 Δ = 8400 mi.																							
28	i	05	14.1		L local - 5 mi.																			
28	iP	08	48	24	1.5			:12	iP	08	48	29						08	48	29				
	e		58	41						I distant								I distant						
	I distant																							
28	iP	09	50	44																				
	I local - 5 mi.																							
29	iP	05	25	08.5					eE	05	25	06					iP	05	25	07				
	I distant									Trace distant								I distant						
29	iP	19	33	22	1			012	iP	19	33	25.5					iP	19	33	24.5				
	i			55						Trace distant							i			56.5				
	Distant trace deep																	I distant						
30																	eP	02	11	37				
																		Trace distant						
30																	iP	06	14	28				
																		Trace distant						
30																	eP	12	27	55				
																		Trace distant						

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 1945 9.

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29	iP	12	40	26.3		+	1	+
	i		44	21				
	i			27				
	e		51	05				
	eS			22				
	II distant							
29	iP	14	58	11.7				
	iP			29.5				
	I distant							
30	eP	01	02	07				
	iP			13				
	e		06	02				
	e		08	08				
	i		10	01				
	I distant							
30	iP	10	41	24.5				
	Trace distant							
31	iP	17	39	35			-	
	i		40	07.5				
	e		43	31				
	eS		50	09				
	eS			18				
	I distant							

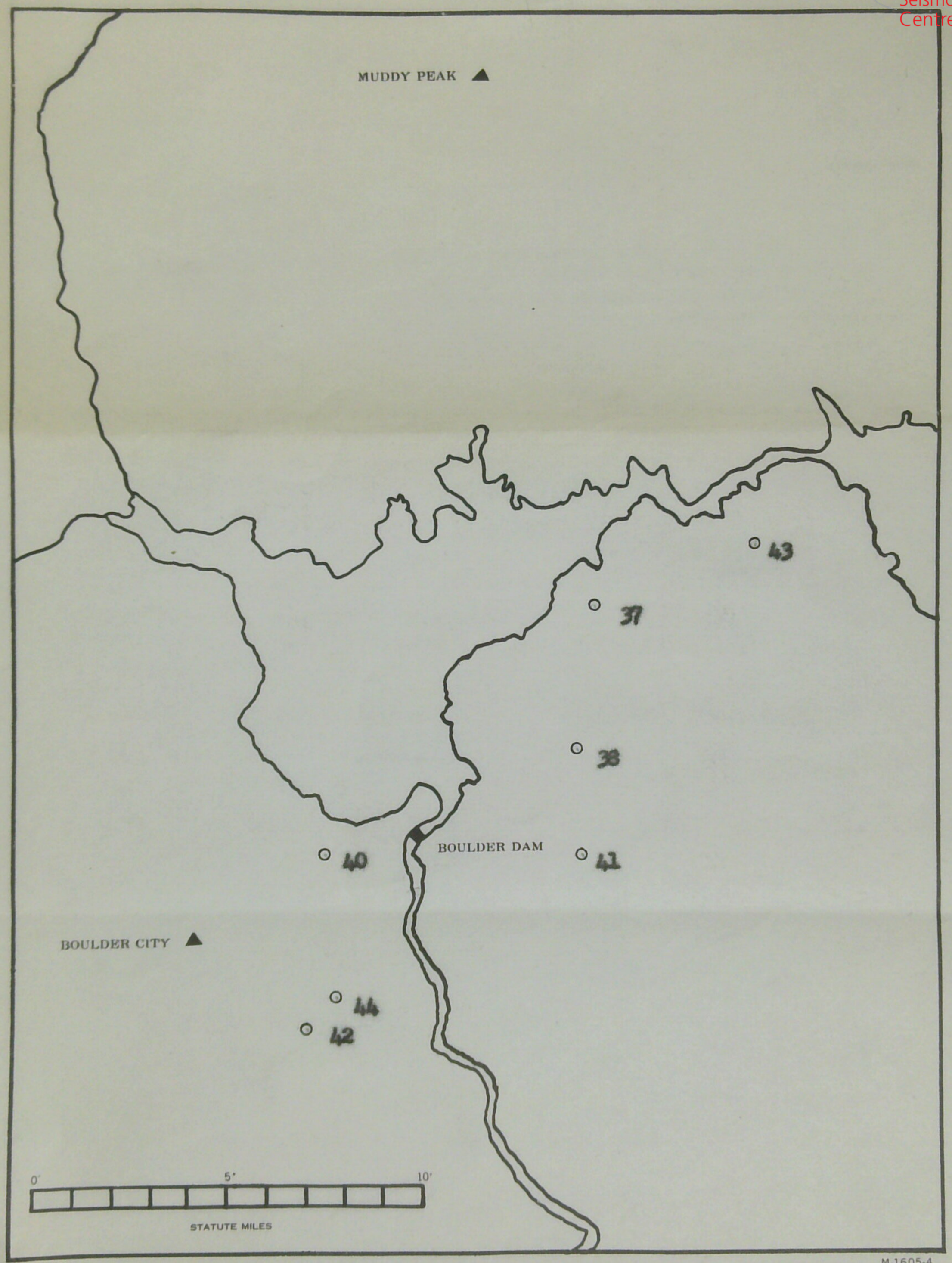
OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	12	40	30				
i		44	25				
I distant							
iP	14	58	14				
i			32.5				
I distant							
eP	01	02	11				
iP			17				
eS		06	12				
I distant							
iP	10	41	26				
Trace distant							
eP	17	39	40				
i			43				
e			17				
eS		43	50				
I distant							

International Seismological Centre



TENTATIVE EPICENTERS IN THE LAKE MEAD AREA
July - December 1945

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT. . . . . .December 1945

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedules throughout December 1945.

In the following report symbol I represents shocks with small trace amplitude on record, II represents a fairly well recorded shock, III large trace amplitudes and a barely recorded shock is marked "Trace". Local shocks are less than 70 miles, Regional shocks from 70 to 700 miles. Regional shocks of unknown distance may be classed as distant.

Local Epicenters were located as follows:

No.	Date Dec.	G.C.T.	Location of Epicenter
44	2	04:08:28.7	About 3.5 miles E.S.E of Boulder City.

The following shocks were reported felt in Lake Mead region. (Roman numerals are intensity grades as estimated by Modified Mercalli scale of 1931).

Ep.No.	Date	G.C.T.	Intensity Description
44	2	04:08:28.7	III Felt by many in Boulder City. Rapid motion, earth noise.
	18	04:12:26.9	II Probably felt in Boulder City.

Confidential-not for publication.

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 194 1.

Time used is

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
		BOULDER CITY						**OVERTON**						**PIERCE FERRY**				
1	i	06 00 56.5					eP	06 01 01					iP	06 00 59.5				
	iP	57.5						Trace distant						I distant				
	i	01 10.5																
	iPr	02 32																
	eS	10 33																
	e	51																
		I distant																
2	iP	00 38 18.5					iE	00 38 13					iP	00 38 21				
		Trace distant						Trace distant						Trace distant				
2	iP	01 35 41.8		+10		-68												
	iS	42.6																
		I local - 4 mi.																
(44) 2	iP	04 08 28.7		+138	-90	- ESE	04	08 48.6					iP	04 08 40.05				
	iS	29.5		1200	950	1200 +ESE		49.3					iESE	08 49.0				
		(felt in Boulder City)				1?		52.4					i	48.45				
		III local - 4 mi. ESE						Trace - 44 mi.						Trace - 44.7 mi.				
		Epicenter about 3.5 mi. ESE of Boulder City. Assumption that travel time of P-wave to Pierce Ferry is 3.58 mi/sec. and 3.50 mi/sec to Overton: These figures agree with earlier evidence.																
2	iP	04 58 49		+15														
	iS	49.8				120												
		I local - 4 mi.																
2	i	08 46.9 Trace local - 4 mi.																
2	iP	14 16 08.5		+28	-10	-160												
	iS	09.3		300	150													
		II local - 4 mi. ESE																
3	i	07 04.7 Trace local - 4 mi.																

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 1945 2.

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
4	eP iPZ eS eS	00 17 48.8 50.0 51.6 52.0 I local - 10 to 14 mi.																
4	iP eS	01 09 27.4 48.7 I regional - 110 mi.				+	iPZ eS	01 09 18.3 33 I regional					iP eS	01 09 22.7 39 I regional				
4	iP iS	02 38 52.2 53.05 I local - 4 mi. ESE		+10	-	-												
4	i	17 24.5 I local - 4 mi.																
4	eP	21 09 47 Trace distant					ePZ	21 09 36 Trace distant					iP	21 09 13 Trace distant				
5	iP e	22 48 07 49 08 I distant											iP e	22 48 15 49 15 I distant				
5		23 35.8 Trace - 15 mi.											iP eS	23 35 53.5 36 01 I local - 42 mi.				
6	i	05 54.0 Trace local - 9 mi.																
6	iP	09 46 04 Trace distant											e	09 46 05 Trace distant				
6	i	18 58.4 Trace local - 5 mi.											iP	23 59 44 I regional				
7	i	14 26.3 I local - 8 to 12 mi.					i	14 26.5 Tiny trace local					i	14 26 32 Tiny trace local				
8	i	00 12.2 I local - 12 mi.																

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF December 1945 3.

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
8	eP	01	17	39				
	e		21	38				
	e		28	18				
	i		[illegible]	20				
	e			30				
	coda				16			
	CGS	1° S, 149° E, 0 = 01:04.4 (Northeast of New Guinea)						
8	iP	21	55	55.5				
	e		56	29				
	eS			34				
	I regional - ca 200 mi.							
9	iP	06	21	44				
	iP		22	09				
	Trace distant							
9	iP	20	51	58		+	-	-
	e	21	01	55				
	i		02	32				
	CGS	15° N, 92° W, 0 = 20:45.6 (Guatemala)						
11	i	00	12.0		Trace local - 10 mi.			
12	iP	00	59	56			-	
	Trace regional or distant							
12	iP	05	57	29.5		+		-
	I distant							
12	eP	14	58	05.2				
	iP			05.7		-		+
	eS			19.1		275		200
	eS			21				
	II regional - 70 mi. W?							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
ePE	01	17	48				
eSE		28	24				
I distant							
iPE	21	55	57				
eSE		56	43				
I regional							
eP	22	23	03				
I regional or local							
ePE	20	51	59				
I distant							
i	00	01	06				
Tiny trace Trace distant							
eE	05	57	35				
I distant							
ePE	14	57	59				
i			01.5				
eS?			12				
I regional							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
ePE	01	17	46				
eSE		28	25				
I distant							
ePE	21	55	54.5				
i		56	04				
eSE			53.5				
I regional							
iP	06	21	43.5				
Trace distant							
ePE	21	51	55				
eS	21	02	08				
I distant							
iP	00	01	00				
	05	57	33.5				
I distant							
iP	14	58	07.5				
eS?			26				
I regional							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 1945 4.

Time used is

No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z	
12	iP	15 19 07			iPE	15 19 09			iP	15 19 08			
	eS	21.5				Trace regional			eS	26			
	iS	29								I regional			
		Trace regional - 75 mi.											
13					iPE	04 05 34			iP	04 05 31			
						Trace regional				Trace regional			
13	iP	16 18 05.5			ePE	16 17 59			iP	06 12 06.2			
	eS	20.5			eS	09.5			iS	25.2			
		I regional - 75 mi.				I regional				I regional			
13	i	08 29.6		I local - 4 mi.									
13	i	09 29.3		I local - 4 mi.									
13					iPE	11 21 13.5							
						Trace regional							
13	i	12 27.8			iPE	12 27 42			iP	12 28 18			
		Trace regional - 75 mi.				Trace regional			eS	36			
										I regional			
13	iP	13 27 40.4		+30 +20 +	ePZ?	13 27 57			iP	13 28 17.3			
	iPE	42.5				Tiny trace local			eS	25			
	iSZN	42.9								I local			
		I local 107 mi. WNW											
13	iP	22 59 20.5							eP	22 23 07.5			Trace regional
	i	23 37							iP	22 59 16.5			
		I distant								I distant			
14									eP	00 13 20.3			
									i	34			
									eS	46.3			
										I regional			

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF December 1945

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
14	iP	17 35 51.5		+ + -	ePE?	17 36 24			iP	17 35 49		
	iE	36 18.5				I distant			i	19		
	iP	22.5							es?	43 05		
	es	43 11								II distant		
		II distant										
14									eP	23 39 93		
									es	18.5		
										I regional		
15	iP	11 02 41.5			eE	11 02 42			e	11 02 37		
		Trace distant				Trace distant				Trace distant		
16	er	20 07 34										
	iP	49										
		Trace distant										
17	i	16 08 21.7		- +	iE	16 08 39			i	16 08 32		
		Trace local - 12.5 mi.				Tiny trace				Tiny trace		
18	iP	02 17 43.3			ePE	02 17 49			iP	02 17 49		
	iP	50				Trace distant				I distant		
		I distant										
18	iP	04 12 26.9		-15?+20 -	iE	04 12 41			i	04 13 50		
	iE	27.9				Tiny trace local				Tiny trace		
		II local - 5 mi. NE										
		Probably felt in Boulder city										
18	er	20 52 25.5							iP	20 52 23.5		
		Trace distant								I distant		
18	er	21 32 23.1			ePE	21 32 15.6			iP	21 32 16.5		
	iP	25.3			eS	42.6			eS	32 39.5		
	eS	51				I regional				I regional		
	eS	54										
		I regional - 140 mi.										

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
23	iP	04 02 56.2		-	+	-
	iS	03 28.3				
	I regional - 170 mi. NW					
23	eP	08 19 21				
	e	26 57				
	e	27 23				
	II distant - COS 10.2° N, 61.7° W, O = 8:09.9 (Helt. Federnales, Venezuela) Δ = 3725 mi.					
23	i	12 27.7		-8	+10	*
	I local - 6 mi. SE					
24	eP	01 59 44				
	Trace distant					
25	iP	01 34 54		+	-	+25
	i	35 37				
	e	44 44				
	I distant					
25	iP	04 50 02				-
	Trace distant					
25	i	21 51 32				
	eS	51 50.5				
	Trace regional					
25	iP	21 56 33.3		+	+	-10
	iS	34.1				
	I local - 4 mi. NE					
27	eP	04 54 35				
	e	58 30				
	e	05 27.0				
	I distant					
	COS 6° S, 148° E, (New Guinea) O = 4:41.0 Δ = 6900 mi.					

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iE	04 02 56				
eS	03 33				
I regional					
ePE	08 19 21				
I distant					

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
1	04 02 59.2				
iP	03 05.2				
eS	03 47.2				
I regional					
iP	08 19 17.5				
II distant					
eP	01 59 40				
Trace distant					
iP	01 34 56.5		+	-	+50
eS	44 48				
I distant					
iP	04 50 05				-
Trace distant					
iP	21 51 52.5				
eS	52 05				
I regional					
eP	04 55 09				
e	59 11				
eS	05 06 09				
I distant					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 194 8.

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
27																	eP	23	36	32				
																	eS			57				
																	I regional							
28	e	04	30	31					ePZ	18	02						e	04	30	41				
	Trace distant								I distant								Trace distant							
28	i	09	01	04.7				+									iP	09	01	08				
	e			21.5													e		02	28				
	e		02	21													I regional							
	Trace regional																							
28	e	14	11	17													eP	14	11	20				
	Trace distant																Trace distant							
28	iP	18	02	24		+											iP	18	02	26.5				
	e		06	20													e		06	30.5				
	e			36													eS		13	07.5				
	e		12	48																				
	i		13	01																				
	e			25																				
	e			33.3																				
	M				21	75																		
	coda				15																			
	II distant - CGS 6° S, 151° E, (New Guinea) O = 18:48.8 Δ = 6700 mi.																							
29	i	06	10.2		Trace local - 8 mi.																			
29	eP	10	04	13.5													eP	10	04	16.5				
	e		08	07													eS		08	14				
	I distant																II distant							
29	iP	11	10	23.1		+?	+	-	Blank Film								i	11	10	37				
	iS			24.3													Trace barely perceptable							
	I local - 12 mi.																							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 194 5 9.

Time used is

		BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29	iP	12	40	26.5		+	1	+									iP	12	40	30				
	i		44	21													i		44	25				
	i			27													I distant							
	e		51	05																				
	eS			22																				
	II distant																							
29	iP	14	58	11.7													iP	14	58	14				
	iP			29.5													i			32.5				
	I distant																I distant							
30	eP	01	02	07													eP	01	02	11				
	iP			13													iP			17				
	e		06	02													eS		06	12				
	e		08	08													I distant							
	i		10	01																				
	I distant																							
30	iP	10	41	24.5													iP	10	41	26				
	Trace distant																Trace distant							
31	iP	17	39	35					-								eP	17	39	40				
	i		40	07.5													i			43				
	e		43	31													e			17				
	eS		50	09													eS		43	50				
	eS			18													I distant							
	I distant																							