Lake Mead 1944
Complete

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . January, 1944

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

Epicenter was located as follows:

No.	Date	G.C.T.	Location of Epicenter
1	31	09h 29m 57s	Seven miles northeast of Boulder Dam

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

Date	G.C.T.	Intensity and Description	
1	04h 43m	III	Felt by one in Boulder City.
26	01h 12m	II	Felt by one in Boulder City.
26	04h 00m	II	Felt by one in Boulder City.
26	12h 22m	II	Felt by one in Boulder City. These three shocks were reported on one card, the first two had no definite time.

International Seismological Centre
M-0734

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1944

Time used is G.C.T.

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Remarks
1	BOULDER CITY	iP	04	43	10.9		+7	-11	+52	
		iS			11.9		-33	-64	+60	
		Small local shock Δ = 5½ mi. Felt in Boulder City.								
1	BOULDER CITY	iP	23	22	44.1				-13	
		iS			45.0		+22	-40	+67	
		Very small local shock Δ = 5 mi.								
2	BOULDER CITY	iP	08	44	07.7				-3	
		iS			10.1		-15	-13		
		im			10.7		1	40		
		Very small local shock Δ = 12½ mi.								
3	BOULDER CITY	iP	10	27	35.8	From SE				
	OVERTON	iP	10	27	35.3					
	PIERCE FERRY	i?	10	27	31.5					
3	BOULDER CITY	iP	13	18	19.6	S 13:18:07				
	OVERTON	iP	13	18	23.7					
	PIERCE FERRY	iP	13	18	23.7					
4	BOULDER CITY	iP	01	06	15.0	From SE				
	OVERTON	iP	01	06	14.6					
	PIERCE FERRY	iP	01	06	10.0					
5	BOULDER CITY	iP	03	06	36.8	From NW				
	OVERTON	iP	03	06	34.4					
	PIERCE FERRY	iP	03	06	36.1					
5	BOULDER CITY	e	04	19	00	From SE				
	OVERTON	iP	04	18	59.1					
	PIERCE FERRY	iP	04	18	55.3					
5	BOULDER CITY	iP	07	09	14.8					
	OVERTON	iP	07	09	15.4					
	PIERCE FERRY	iP	07	09	15.1					
5	BOULDER CITY	iP	11	07	35.4	From SE				
	OVERTON	e	11	07	32.1					
		iP			38.2					
	PIERCE FERRY	iP	11	07	28.6					
5	BOULDER CITY	iP	12	04	25.0	From SE				
	OVERTON	e	12	04	22.0	C 12:05:14				
		iP			27.7					
	PIERCE FERRY	iP	12	04	18.9					
5	BOULDER CITY	i?	21	32	02.6	From NW				
		i			04.6					
		i		35	27.6					
	OVERTON	e	21	31	53.7					
		i		32	00.1					
		i		35	24.3					
	PIERCE FERRY	i	21	31	58.7					
		i		32	02.9					
		e		34	18.7					
		i		35	27.0					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1944

Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
6	eP	03	48	29.7				
	iP			34.1				
	iS		49	35.9				
	iS			41.0				13
6	iP	11	39	48	C 11:40:42.2			
6	iP	13	46	13.5	From NW			
	i			29.3				
6								
6	iP	16	54	30.2	From SE			
	i			40.0				
7	iP	01	44	14.1		+4	+1	-9
	iS			17.1		+8	+15	-14
	im			17.4		27	25	35
	Very small local shock Δ = 16 mi.							
7	eP	03	03	07.1				
	eS		07	11.3				
	iS			18.4				
7	iP	20	05	12.3			-7	
	i			13.2		+6	+5	
	iS			15.3			-23	+17
	iS			15.6		-12		
	iS			16.0		42	35	-40
	Very small local shock Δ = 16 mi.							
8	i	19	29	29.6				
	S 19:29:18							
8								

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	03	48	45.3				
iS		49	29.0				
iP	11	39	47.3				
iP	13	46	13.0				
i			27.3				
i	16	07	Local shock or disturbance				
iP	16	54	01.8				
i			12.4				
e	03	02	37.2				
e		06	50.7				
iP	19	29	32.8				
i			45.8				
iP	21	46	38.6				
i			42.4	Δ = 19½ mi.?			
Local shock or disturbance. Epicenter in Virgin Mts.?							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	03	48	36.7				
iS		49	22.0				
iP	11	39	43.1				
iP	13	46	17.4				
i			31.5				
iP	16	54	27.9				
i			37.6				
iP	03	03	10.7	Time?			
e		07	21.9				
Probably W Pacific							
i	21	46	00.0				
i			07.1	Δ? = 36½ mi.			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1944

Time used is G.C.T.

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Remarks
8	BOULDER CITY	iP	23	38	10.9					
		i			18.4					
		is			27.1				25	
		Local to regional shock Δ = 84 mi.								
	OVERTON	is	23	38	37.1					
		0			45.0					Δ = 105 mi.
	PIERCE FERRY	i	23	38	00.0					
		iP			09.8					Time?
		is			19.8					
										Δ = 51 mi. to S
10	OVERTON	iP	16	35	58.9					
		i		36	25.0					Distant earthquake
10	BOULDER CITY	iP	20	14	56.4		-3	+3	+6	
		iP			57.6		-30	+36	+50	
		i		15	17.9					
		e		19	52.8			S?	S?	
		e		20	03.2					
		i		21	46.4					
		iM		22	38		Δ = 2400 km. = 1500 mi.			
	OVERTON	iP	20	14	59.9					
		iP		15	02.1					
		i			33.9					
		i		22	13.1					
		M		23	03					
										G CS 18.1°N, 100.6°W O = 20:10.0
	PIERCE FERRY	Time?								
10	BOULDER CITY	iP	20	38	27.2	1.5	-25	+32	+40	
		i			55.0					
		i		39	04.5					
		i		41	03.9	4.5			S?	
		i		45	12.5					
		i			29.7					
		Aftershock of above								
	OVERTON	iP	20	38	29.9					
		i			31.8					
		i		39	02.2					
		i		45	12.9					
		M		45	48					
11	BOULDER CITY	iP	01	45	56.2					
		i		46	13.6					
	OVERTON	iP	01	45	55.8					
	PIERCE FERRY	C	01:44:56.3							
11	BOULDER CITY	iP	23	38	56.6		+40	-58	+140	
		i			58.9		+190	+130	+300	
		Blast								
	OVERTON	iP	23	39	05.8			-13	+21	
		i			06.2					
		i			06.8					
		i			15.7			-28		
	PIERCE FERRY	iP	23	39	07.8					Time correction
		is?			19.2					
12	BOULDER CITY	iP	13	05	20.3		-6	+12	-50	
		is			21.5		+15	-10		
		Very small local shock Δ = 6 mi.								
12	BOULDER CITY	iP	15	04	57.0		+24	-20	+22	
		i		07	46.4					
	OVERTON	i	15	04	55.3					
		iP			58.1					
		is		07	35.1					
	PIERCE FERRY									Felt at Eureka, California
										Δ = 630 mi. off Cape Mendocino

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1944

Time used is G.C.T.

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 Amplitud E	N
12																	iP	22	40	16	Time in doubt		
																	i3			35			
																	Regional shock						
13	i?	22	31	46.9					i	22	31	41.0		-3	-6	+5	i	22	31	50.0			
	iS			57.3					i			43.0		160	180	150	i			58.7			
	Small local disturbance Δ = 10½ mi.?																						
14	i	08	09	17.5					iP	08	09	39.8											
	iP			27.6					iS		10	36.1											
	iS?		10	12.2																			
15									i	02	41			Regional shock									
15	i	02	55	35.5					i	02	55	49.2											
	Regional shock?																						
15	iP	05	56	21.4					iP	05	56	19.5					From SE						
16	iP	00	01	38.9		- 6	+10	+30	iP	00	01	40.4					iP	00	01	37.5			
	i			48.2													i			47.5			
	e?		04	34.1																			
	i			42.9	Δ = 5570 mi. CGS 31.5°S, 68°W				0 = 23:49.4															
16	i	02	27	47.5					i	02	27	45.8					i	02	27	54.0			
	iP			50.2					iP			49.5					iP		28	07.2			
	e		30	27.7					e		30	14.7		Off Cape Mendocino			Δ = 630 mi. NW						
16	iP	07	01	22.9					iP	07	01	33.8					iP	07	01	33.0			
	i			24.7					e		02	13.3					i			34.0			
	iS			55.1					iS			18.4					iS		02	12.7			
	iS			57.4													iS			18.2			
	Regional shock																						
18	iP	01	04	47.6					iP	01	04	50.3		From SE			iP	01	04	50.6			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 194 4 5.

Time used is G.C.T.

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	02	41	19.0				-8																
	iS			19.8		+12	+28	-25																
18	iP	04	22	37.2		-4	-7	-21																
	iS			38.1		-17	+18	-20																
20	iP	03	11	04.2					iP	03	10	57.2					No time marks							
	e		20	29.9	s 03:10:40																			
20																	iP	13	25	00.0	Time approximate			
																	iS			00.8				310
																	Small local shock				Δ = 4 mi.			
20	iP	17	37	44.2		+8	+11	-30																
	iS			45.4		+13	-20	+50	Very small local shock					Δ = 6½		mi.								
20	i?	19	58	14.1					iP	19	58	11.3		0	+2	-10								
	i			21.6					iP			12.0		+7	+18	+23								
									iS			14.0		+65	-95	+80								
									i			24.8												
									Small local shock				Δ = 14	mi.	?									
21	iP	10	32	39.1					iP	10	32	33.4					iP	10	32	41				
	i		33	44.8					i		33	36.8												
23	i	07	25	36.6					i	07	25	35.1					iP	07	25	39.7				-10
	iP			40.5	From NW				iP			39.1					iP			43.9				-65
23																	i	11	01	41.8				
																	iS		03	16.5				
23									iS	20	55	24.4					iP	20	52	36.0				
																	iP			41.2				
																	iS		55	09.3				
																	iS			15.0				
24	i	00	15	55.1													i	00	15	51.4				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1944

Time used is G.C.T.

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
24	i	04	25	45.8					i	04	25	41.8					i	04	25	39				
24	iP	06	04	30.0	C 06:	02:	07.5		i	06	04	22.9					iP	06	04	30.9				
25	iP	07	52	08.6	C 07:	51:	55.6		iP	07	52	12.1					iP	07	52	10.5				
25																	iP	19	01	35.6				
26	iP	01	12	12.6		+6	+3	+16																
	i			13.9		-36	-43	-30																
	Very small local shock Δ = 7 mi.								Probably felt in Boulder City, two shocks reported felt during the evening.															
26	iP	04	00	17.0		+3	-3	+16																
	iS			18.1		-67	-70	-50																
	Small local shock Δ = 6 mi. Felt in Boulder City.																							
26	iP	06	22	41.3		+6	+5	+18																
	iS			42.5		-32	-42	-35																
	Very small local shock Δ = 6½ mi.																							
26	iP	07	21	54.0				+7																
	iS			55.3		-50	-31	-38																
	Very small local shock Δ = 7 mi.																							
26	iP	12	22	18.4		+3	+6	+20																
	iS			19.6		-117	-84	-68																
	Small local shock Δ = 6½ mi. Felt in Boulder City.																							
27																	iP	00	00	23.3				
27	iP	14	38	48.8		+6	+10	+25																
	iS			50.0		-47	-71	-37																
	Small local shock Δ = 6½ mi.																							
27	iP	23	14	02.8		+26	-27	+77	iP	23	14	12.9					iP	23	14	14.3				
	i			03.5		+40	-36	+167	i			22.0					iP			15.1				
	i			04.3					i			23.8					iS			24.9				
	i			04.8													iS			25.5				
	iS			05.3		-78	+90		Blast															

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1944 7.

Time used is G.C.T.

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
28									e	11	12	53		From NW										
									e			59												
28									iP	22	04	18.3												
									iS			21.2				45								
28																	i	23	24	47.0				
29																	i	01	01	53.3				
29	iP	02	32	15.1		+5	+11	+20	iP	02	32	12.1					iP	02	32	17.1				
	i			19.8						From NW							i			22.1				
	Distant earthquake																							
29	e	03	27	24.1					i	03	27	27.9					i	03	27	24.2				
	i			27.6					iP			33.8					iP			31.4				
	iS		28	06.7					iS		28	22.4					iS		28	26.9				
	Regional shock								iS			26.9					iS			32.4				
30	i	00	58	10.3					i	00	58	03.3					iP	00	58	01.1				
	iP			13.9					iP			04.1					iS			20.6				
	i			38.8					iS			26.2												
30	iP	06	50	42.0	Time?				iP	06	50	31.5				-8	iP	06	50	40.0				
	iS			53.4		25	18	40	i			35.3					i			41.7				
					Δ = 59 mi.				iS			36.2		+170	+100	-68	iS			51.3				
									0			24.6	Δ = 24 mi.				iS			52.4				
																	iS			54.0		50		37
	Very small local shock. Epicenter in Hormon Range																					Δ = 56 mi.		
30	iP	07	27	28.7	Time?			+10																
	iS			30.1		-25	-35	50																
	Very small local shock Δ = 7½ mi.																							
30	e	10	19	55.7	Time?				e	10	19	47.7					i	10	19	40.9				
	iP			58.9					iP			53.0					iP			49.9				
	iS		21	03.7	S 10:19:19.7				iS		20	51.3					i		20	02.3				
	Regional shock								iS			51.4					iS		21	04.3				
																	iS			07.5		65		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1944 8.

Time used is G.C.T.

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
30									iP	23	23	06.1		+4	+6	-12	i	23	23	14.7				
									i			10.4		150	105	80	is?			23.9				
									Local shock				Δ =	22 mi.							Δ =	47½ mi.		
31																	i	00	04	58.1	S	00:05:30		
31	e	02	56	18.9					iP	02	56	27.2					iP	02	56	21.1				
	is		58	38					is		58	55.6					is		58	37.7				
31	i	04	25	33.4		+6	0	-7	iP	04	25	28.3		+	0	-6	iP	04	25	26.1		+27		-15
	iP			34.0		-8	+5	+28	iP			28.8		+4	-6	+34	i			27.0		+75		-30
	iP			37.5					iP			32.8					i			44.4		+60		-18
	i			42.9					i			36.2					is			45.6		+275		-85
	is		26	02.2					is			50.6		230			im			46.6		800		
	is			03.6					i			52.0									Δ =	100? mi.		
	im			09.1		65	61	155	is			54.1												
									im			59.8		133	165	122								
					Δ =	147? mi.							Δ =	1147 mi.										
	Regional shock. Epicenter probably near West edge of Kaibab Plateau																							
31																	i	05	10	17.1				
																	i		11	21.7				
																	Regional? shock							
31	i	07	29	51.6					i	07	29	58.5					iP	07	29	52.3				
	i		30	34.3					i		30	57.9					i			53.9				
																	is		30	57.6				
31	i	07	44	50					i	07	44	59.1					i	07	44	52.8				
	i		45	34					i		45	55.6					i		45	05.8				
																	is			57.8				
31	iP	09	30	01.1		+7	+5	-20	iP	09	30	07.8		+2	+6		iP	09	30	07.9				
	is			04.1		-26	+22	-32	is			14.4		-14	12	6	is		30	15.0		26		
	im			04.7		46	29	53					Δ =	34 mi.			im			15.5				40
	0		29	56.7	Δ =	15½ mi.															Δ =	36½ mi.		
	Very small local shock. Epicenter 7 mi. NE of Boulder Dam.																							

International Seismological Centre
M-1073-4

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1944 9.

Time used is G.C.T.

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
31	1P	09	39	35.2					1P	09	39	35.6					1P	09	39	38.8	From NW			
	i			50.5																				
31									i	22	35	47.4												

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . February, 1944

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

Epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
2	1	01h 22m 19s	At Boulder City, six miles deep.
3	1	15h 17m 20s	Three miles SW of Boulder Dam.
4	2	11h 39m 12s	At Boulder City, six miles deep.
5	4	05h 40m 27s	Twenty miles NNE of Pierce Ferry in Grand Wash.
6	22	09h 00m 05s	One mile west of Greggs Basin.
7	26	16h 38m 54s	Six miles NE of Boulder Dam.
8	27	14h 20m 05s	Eight miles NE of Boulder Dam.
9	28	04h 44m 36s	Four miles NW of Boulder Dam.
10	28	22h 45m 35s	Seven miles SSW of Boulder Dam.

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

No.	Date	G.C.T.		
2	1	01h 22m	III	Felt by one in Boulder City.
3	1	15h 17m	II	Earthnoise reported by one in Boulder City.
	1	19h 31m	II	Felt by several in Boulder City.
4	2	11h 39m	II	Reported by one as longer than usual in Boulder City.
	28	03h 29m	III	Reported by one at Boulder Dam and one reported earthnoise in Boulder City.
9	28	04h 45m	III	Earthnoise reported by one, in Boulder City.

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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Time used is G.C.T.

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY										
2		1	iP	01	22	21.2		+7	-3?	+65
			i			22.4		-465	-505	+260
			F		22.9					
			O		22	19.5	Δ = 6 mi.			
			Small local shock under Boulder City. h = 6 mi. Felt by one.							
		1	iP	03	36	17.9				
			i		40	35.8				
			CGS 41°N, 31°E (Turkey) O = 3:22.7 Δ = 98° (6770 mi.)							
		1	iP	05	27	54.4	C	S		
		1	iP	06	21	56.0	C	S		
		1	iP	15	17	22.5		-28	+85	-290
			iS			23.7		280	-365	
			O			20.8	Δ = 6 mi.			
			Small local shock, epicenter 3 mi. SW of Boulder Dam							
		1	iP	18	03	02.1		+10	+15	+50
			iS			03.3		-157	-300	
			Small local shock Δ = 6½ mi.							
		1	iP	19	30	55.5			+25	
			iS			56.7			-52	
			im			57.7			85	
			Small local shock Δ = 6½ mi.							
		2								
		2								
		2	iP	10	01	46.2		+9	-8	+46
			iS			47.4		-87	-133	+37
			O			44.4	Δ = 6½ mi.			
			Small local shock							

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON										
2		1	iP	01	22	32.5				
			iS			40.8		22	12	10
							Δ = 42 mi.			
		1	iP	03	36	13.4				
			i		40	12.8				
		1	iP	05	27	53.2				
		1	i	06	22	22.9				
		3	i	15	17	33.9				
			iS			41.1	Δ = 42½ mi.			
			BOULDER DAM							
			iS	15	17	23.9		1.0mm		
							Δ = 6½ mi.			
		1								
		1								
		2								
		2	iP	04	00	22.8				
		2	i	10	02	09.5				
							Δ = 52? mi.			

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY										
			iP	01	22	33.3				
			iS			43.4		30		40
							Δ = 50½ mi.			
			iP	03	36	10.5				
			iP			16.6				
			i		40	34.7				
			i		49	15.1				
			e	04	15					
			iP	05	27	56.1				
			iP	06	22	24.3				
			iP	15	17	33.3				
			eS			41.6				
			iS			42.4		27		30
							Δ = 43½ mi.			
			i	18	03	14.1				
			iS			24.1		14		20
							Δ = 51½ mi.			
			iP	03	46	46.2	C	S		
			iP	04	00	18.4	C	S		
			e	10	02	01.9				
			iS			08.8				1
							Δ = 50½ mi.			

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No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
4	2	iP	11	39	13.3		+30	-15	-300
		iS			14.5		280	+405	
		0			11.6	Δ = 6 mi.			
		Small local shock, epicenter at Boulder City. h = 6 mi.							
	2	iP	16	39	28.1		+8	+13	+40
		i			29.3		+215	-245	
		Small local shock Δ = 6 mi.							
	2								
	3	iP	12	20	54.9		+2	-7	+7
	3	iP	17	24	00.6		-7	+3	-10
		iS			03.6		-32	+17	+35
		m			04			33	65
		Very small local shock Δ = 14½ mi.							
	3	iP	20	40	14.7				
	3								
5	4	iP	05	40	44.5		+3	0	-7
		iP			46.5		-10	-9	+30
		iS			56.6		-9	+8	+7
		0			27.1	Δ = 61½ mi.			
		Very small local shock, epicenter 20 mi. NNE of Pierce Ferry in Grand Wash.							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									
4	2	iP	11	39	24.2				
		i			33.7		+19	+15	22
						Δ = 44½ mi.			
		Small local shock, epicenter at Boulder City. h = 6 mi.							
	2	i?							
	2	i	18	45	19.6				
		iS			21.8		45		
		Small local shock Δ = 11½ mi.							
	3	iP	12	20	52.0		CGS	59.3°N, 138.0°W (SE Alaska)	O = 12:15.2
		e		30	32		Δ = 27½° (1900 mi.)		
	3								
	3	iP	20	39	59.2	C	S		
		iP		40	00.3				
	3	iP	23	20	55.7		0	+5	-11
		iP			56.3		+8	-11	-32
		i			57.2				
		iS			58.7		-97	-108	-112
		Small local shock, Δ = 15½ mi. Epicenter may be in Virgin Mts.							
5	4	i	05	40	37.2		+2	0	-5
		i			43.8		+7	-30	-24
		iS			44.0		+27		
		m			44.4		55		
						Δ = 35 mi.			

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
4	2	iP	11	38	25.1				+7
		iS			35.1		+30		-2
		iS			36.1		35		+4
						Δ = 48 mi.			
		BOULDER DAM							
		iS	11	39	16.0	Δ = 8½ mi.			
		PIERCE FERRY							
	2	i	16	39	14.8				
		iS			20.8				20
	3	iP	12	20	15.2				
	3								
	3	i	23	21	30.5	Time?			
		iS			38.1				
5	4	iP	05	40	34.7		-5		+1
		i			39.4				+7
		iS			39.7		-60		
		im			40.2		485		26
						½ = 25½ mi.			

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BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
4	iP	15	22	52.1		+3	+5	+24
	iS			53.3		-55	-90	
	Small local shock				Δ = 6½ mi.			
4	iP	15	42	30.1				
	iS		43	10.6				
	Regional shock							
4	iP	21	16	09.6		+11	-10	+108
	iS			10.8		-163	-270	
	Small local shock				Δ = 6½ mi.			
4								
4								
5	iP	03	18	54.4		-4	+9	-28
	iS			55.6		+140	-118	
	Small local shock				Δ = 6½ mi.			
5								
6	iP	07	20	09.6		+5	+5	-25
	iS			10.6		+27	-47	+110
	Very small local shock				Δ = 5 mi.			
6								
6	iP	18	49	49	S			
7	iP	00	25	52.8		+10	+3	+27
	iS			54.0		-62	+37	-72
	Small local shock				Δ = 6½ mi.			

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	15	42	41.1				
iS		43	30.3				
iP	21	16	58.0				
Regional?							
iP	22	53	52.0		+14	-12	-35
i			53.8				
Small local shock, epicenter probably 9 mi. SE of Overton							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N
iP	21	16	21.9			
iS			31.7			
iS			32.5			
iP	21	17	01.3			
iP	23	55	40.5			
?						
i	22	53	01.2			
iS			10.1			
e	11	22	02			
e		23	24			
Regional shock						
e	18	49	44			

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BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
8	iP	07	17	12.5		-7	+6	-18
	iS			13.3		+120	-25	+110
	Small local shock Δ = 4 mi.							
8								
8	iP	16	04	05.6		+11	-20	+95
	iS			06.4		-198	-245	-170
	Small local shock Δ = 4 mi.							
9								
10								
10								
12	iP	10	06	27.9		-6	+5	-20
	iS			29.1		+63	-53	
	Small local shock Δ = 6½ mi.							
12	iP	13	27	27				
12	iP	16	13	36.5		-4	-6	-9
	iS			37.8		+124	-60	-39
	Small local shock Δ = 7 mi.							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	23	11	43.0		-8	-16	+22
iS			45.1		-55		
Small local shock Δ = 11 mi.							
iP	02	55	46.0		-6	-8	-12
iP		56	46.8				
iS			50.1		-275		
iS			50.5				
Small local shock Δ = 21½ mi.							
iP	03	02	22.2		+7		+15
iS			27.3		+20	-30	-28
Very small local shock Δ = 26 mi.?							
C	S						

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N
e	11	03	00.4	Time?		
iS			31.0			
Regional shock						
iP	13	27	30			

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BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
14	i	03	04	01.7				
	iP			02.4				
	I Distant							
15	iP	01	48	39.8				
	i			40.7				
	i			51.4				
	iS			52.0				
	Regional shock Δ = 62½ mi.							
15	iP	05	49	28.6	C	S		
15								
16	iP	11	18	43.7	C	S		
17	i	03	13	23.3				
	iS			41.2				
	iS			43.5				
	Δ = 90 mi.							
	Regional shock, epicenter to the SW							
17								
17								
18	iP	09	23	48.6				
18	iP	19	29	35.2				

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
C	S From NW						
i	01	48	50.5				
C			21.8	Δ = 100½ mi.			
iP	19	25	22.0			-5	-20
iS?			26.1			-80	-115
Small local shock Δ = 21 mi.							
iP	11	18	36.0				
iP	03	13	33.9				
iP			35.9				
i			41.3				
iS			59.3				
iS		14	02.3				
i			07.7		75	65	100
				Δ = 125 mi.			
C	S						
C	S						

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	01	48	50.9	Time?			
iP			52.8				
iS			12.4				
iS			15.1	Δ = 110 mi.			
Probable epicenter near Kingston Range 35 mi. N. of Baker, California							
iP	05	49	25.2				
iP	11	18	39.5				
iP	03	13	08.1				
iP			09.5				
iP			12.4				
iS			32.7				
iS			35.9				
i			40.2		150	350	70
				Δ = 120 mi.			
iP	19	27	24.6		-90	+20	-290
iS			26.2		-470	-1100	-500
Local shock Δ = 8½ mi. WNW							
e	19	33	07				
iP	09	23	51.7				
iP	19	29	37.7				

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Time used is G.C.T.

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	21	48	48.0												
									iS			49.8				90								
									I Local 9½ mi.															
19																	iP	00	03	12.9				
																	i			24.7				
																	Local to Regional? shock							
19																	iP	12	47	49.6				
19	iP	13	00	53.8						S							iP	13	00	56.0				
19										C	S						iP	16	10	53.7				
19	iP	16	33	06.7		-11	+24	-86									iP	16	33	16.9				
	iS			08.1		+80	+105	+142									iS			25.7				
																	i			26.3				30
19	i	18	51	56.3					iP	18	51	45.5					i	18	51	53.4				
	i?		52	03.3					iS			48.4				100	iS		52	03.7				
					Δ = 53 mi.?				0			41.2	Δ = 15 mi.								Δ = 42½ mi.?				
19	i	22	53	44.1													iP	22	54	04.3				
	iS			59.0				24									iP			05.1				
					Δ = 38? mi.												i			20.3				
	Local to regional shock																iS			21.8	Δ = 82 mi.			
20									iP	04	15	03.7	C	S			iP	04	15	07.7				
20																	i	04	50	53.7		-6	-9	
																	i			54.9				
																	iS			57.6				
																	iS			58.4		-148		190
																	im			00.1		+215	+200	
	Small local shock. May be near slide area in Virgin Canyon																Δ = 10 to 20 mi.							

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No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
20	i	05	50	52.8				
	iS			59.9		+9	-8	
				Δ = 37 mi.		to 44 mi.		
	Local shock, epicenter not located, near Pierce Ferry.							
20								
	Local shock, probably 12 mi. S.W. of Pierce Ferry.							
20	iP	19	33	45.5				
	iP			46.8				
21	iP	11	25	40.5				
21	eP	11	33	12.6				
	iP			14.6				
	eS		36	55.7				
21								
21	e	13	01	46				
21	iP	20	40	32.4				+10
	iS			33.7		+24	+16	-35
	Very small local shock					Δ = 6½ mi.		
22	iP	05	45	23.5		+7	-6	+39
	iS			24.7		37	64	-53
	Small local shock.							
22	iP	07	31	39.0				
22	e	11	32	58.3				

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
20	i	05	50	52.8				
	i			56.3				
	i		51	02.5				
	i			04.9				
20								
20	iP	19	33	52.0	C	S		
21	iP	11	33	17.3	C	S		
	iP			23.8				
	iS		37	15.8				
	iL		41	04.0				
21								
21	S I Regional							
21								
22								
22								

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
20	iP	05	50	40.7		+14	-34	+44
	i			41.7		-500	+380	
	0			39.3	Δ = 5? mi.			
20	iP	05	52	59.4		-2	-6	-11
	i		53	00.1				
	i			01.0		-80	-178	
	iS			01.6		+62	+118	-68
20	iP	19	33	48.4				
21	iP	11	25	43.7				
	iP	11	33	10.9				
	iS		36	51				
	iL		40	54				
21	iP	12	25	43.6				
21	e	13	01	59				
21								
21								
22								
22	iP	07	31	35.8				
22								

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BOULDER CITY

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
6	22	iP	09	00	16.7				+8
		iS			24.4		+13	+7	
		iS			24.8		-10	+12	-21
						Δ =	39½ mi.		
		Local shock, epicenter west of Gregg Basin.							
	22	iP	23	12	52.5			-6	
		iP			53.6				+16
		iS			56.0		-15	+37	+25
		Local shock Δ = 12 mi.?							
	23								
23		i	04	12	39.5	S			
23		iP	12	33	40.5		+8	-10	+27
		i			55.8				
		iS		39	59.8	II Distant C			
23		i	18	52	11.7				
		iP			15.3				
		i			48.9				
		iS			59.9				-20
						Δ =	200 mi.		
		Regional shock							
23		iP	23	43	36.2				
		i			39.8				
		i			47.1				-15
		iS		44	28.3		-15	-20	
		iS			35.9				
		i			43.2				
						Δ =	240? mi.		
		Regional shock S							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iZ	09	00	15.2				
i			15.6				
iP			16.0				
iS			22.1				
iS			25.1		+15	+19	-25
i			26.3	Δ =	35 mi.		
iP	12	33	40.7		-12	-10	-56
iS		40	27.5	S From NW			
iP	18	52	23.6				
i			26.0				
i		53	00.3			17	
iS			04.9	Δ =	225 mi.		
i	23	43	49.3				
iP			55.6				
i			58.3				
iS		44	40.6				
iS			48.3				
iS			56.3		60	70	54
				Δ =	250? mi.		

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
0	09	00	05.4	Average			
iP			08.9		-220	-105	-60
i			11.1		1120	800	96
				Δ =	12½ mi.		
i	23	13	01.6				
iS			10.3				
				Δ =	45 mi.		
iP	02	40	35.9		-38	-22	-10
iS			38.1		-270	-430	+9
Local shock				Δ =	11 mi.		
iP	12	33	33.8		-24	+40	-80
iS		40	35.5				
i	18	52	19.2				
iP			25.4				
iP			27.3				
iS			58.8				
iS		53	07.2				150
				Δ =	210 mi.		
iP	23	42	43.8				+3
iP			46.0		-8	-7	-10
iP			47.7				
iP		43	01.2				
i			35.5				
iS			45.6		+20	+50	-20
iS			51.1		+60	-140	-15
m			57		125	240	85
i		44	06.3		0	0	
				Δ =	275 mi.?		

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No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
23								
24	iP	04	40	36.2			-4	+9
	iS			37.4		+16	+12	-35
	Very small local shock					Δ = 6 mi.		
24	i	06	51	35.2				+7
	iP			36.3				
	iP			37.5				
	iS			57.5		-25	+36	
	iS			57.9				-68
	i			59.0				
	im		52	00.6		+18	+83	+133
	Regional shock				Δ =	100	mi.	
24	iP	07	40	33.0				
	Distant earthquake							
24	iP	12	43	21.5		-4	-7	+19
	iS			22.6		-35	-57	-37
	Very small local shock					Δ = 6 mi.		
24	iP	13	16	46.4		-7	+4	-13
	iS			47.3		+11	-30	+50
	Very small local shock					Δ = 5 mi.		
25	iP	22	53	14.8		+52	-70	+160
	iS			17.2		-268	154	-630
	BOULDER DAM							
	iP	22	53	18.4				
	iS			22.5				
	Blast at Manganese Ore Mine							

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
23	iP	22	36	57.2		+4		
	iS			53.3		-62		
	Local shock				Δ =	11	mi.	
24	i	06	51	41.2				+11
	i			47.9		-4	-6	+18
	iP			48.4		-9	-12	+48
	i		52	14.9			+17	+37
	i			16.0		+20		+35
	iS			16.9		+48	-42	-33
	iM			22.1			+125	
	Epicenter to the SW							
	eP	07	40	29.4				
	iP			30.9				
24	iP	22	53	24.4		-9	-7	-24
	iP			24.7		-16	-17	-50
	iP			25.9				0
	iS			32.9		-26	-11	
	iS			34.2			+22	
	i			35.8		-70	+43	-25
	iZ			42.8				67

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	iP	06	51	39.5		+3	-10	+7
	iP			45.8		+12	-46	-4
	i			51.6		-65		-8
	i		52	07.3		+65		
	i			07.7			-240	
	iS			15.4		-158	-300	+1
	iM			17		400	1040	
	iP	07	40	30.9				
	iP	22	53	26.3		-13	-7	-
	iP			27.4				
	i			28.4				
	iS			36.6		+10	-125	
	iS			37.4		-160		-
	im			38.4		280	400	-

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **February** 194**4** **10.**

Time used is **G.C.T.**

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY										
7		26	iP	16	38	58.2		-5	+3	-13
			i		39	01.3			+13	-20
			im			01.9				-38
			Very small swarm type local shock							
		26	iP	22	30	11.0				
			Distant earthquake C S							
8		27	iP	14	20	09.3		+20	+21	-62
			is			12.3		+153	+47	-96
			0			04.9	Δ = 15½ mi.			
			II Local. Epicenter 8 mi. NE of Boulder Dam							
		27	iP	20	07	36.0				-5
			is			37.3		+50	+34	-82
			I Local				Δ = 7 mi.			
		27	e	20	16	29				
		28	i	03	27	55				
			is		28	38.3				
			I Regional shock							
		28	iP	03	29	12.9		+10	-24	-20
			is			14.6		-88	+100	-215
			I Local				Δ = 9 mi.			
9		28	iP	04	44	38.6		-10	+66	-250
			is			40.1		+260	-295	-465
			0			36.1	Δ = 7½ mi.			
			BOULDER DAM							
			iP	04	44	38.0				
			is			39.1		2mm		
			II Local Δ = 5 mi. Epicenter 4 mi. NW of Boulder Dam							
			BOULDER CITY							
		28	iP	07	55	44.9				
			is			46.3		+10	15	

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON										
7		26	iS	16	39	10.9		12	13	
			0		38	53.7				
							Δ = 36 mi.			
			Δ = 16 mi. Epicenter 6 mi. NE of Boulder Dam							
		26	iP	22	30	09.6				
8		27	iP	14	20	14.9				+11
			iP			15.1			+7	
			is			21.7		-14	+38	-16
			is			22.0		-46	-61	+62
							Δ = 35 mi.			
		27								
		27								
		28	i	20	16	22.3				
			i		18	40.9				
		28	e	03	28	36.3				
			is		29	24.8				
		28	i?	03	29	25.6				
9		28	iP	04	44	47.6				
			i			54.7				-5
			is			55.4		-13	-11	
							Δ = 38 mi.			
			I Local Δ = 7 mi.							

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY										
7		26	iP	16	39	04.5				
			i			11.5				
			is			11.9		+25	+80	-30
							Δ = 38 mi.			
		26	iP	22	30	13.1				
8		27	iP	14	20	15.2		-10		-15
			iP			15.3			+14	
			is			22.3				
			is			22.5		-50	+485	+127
			im			23.2	Δ = 36½ mi.			
		27	is	20	07	55.8				16
		27	iP	20	16	13.3				
			i		18	28.9				
		28	iP	03	27	57.7				
			is		28	52.0				
							Δ = 44 mi.			
		28	i	03	29	23.7				
			is			31.5				27
9		28	iP	04	44	48.8				-10
			i			49.5				
			is			57.7		+140	+58	
			is			58.2	Δ = 44 mi.			

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
	28	i	10	47	13.8				
		i			16.7				
		i			19.9				
		i		48	38.7				
		I	Regional						
10	28	iP	22	45	37.4		+7	-2	-37
		iS			38.6		+320	+155	-440
		O			35.2	Δ = 6 mi.			
		II	Local. 7 mi. SSW of Boulder Dam						
	29	iP	03	52	21.4		+30	-35	-90
		iS	04	00	52.9				
		isS		01	59.2				
		III	Distant OGS 13.7°S, 70.6°W (Peru)						
	29	e	04	20	58	C			
		I	Regional?						
	29	e	16	47	37				
		iP			38.0				
		iP			40.9				
		II	Distant						
	29								
	29								
	29								

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON							
e?	10	47	08.8				
e			51.5				
i			59.7				
iS		48	35.7				
iS			41.5				
i	22	45	54.4				
i			58.1	Δ = 47½ mi.			
iP	03	52	22.6				
iS	04	00	57.2				
				(Peru) O = 3:42.0 Δ = 4450 mi.			
e	04	20	37				
i			57				
iP	16	47	35.3				
e	21	53	31	C	S		
iP	22	51	43.1		-4	-1	+13
i			43.6		+10	-20	-23
i			45.2			+70	-48
iS			46.0				
i			47.0				+50
im			48			135	-110
Local II 10 mi.							

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY							
iP	10	47	11.9				
i			18.6				
iS			55.9				
iS			59.0				
i		49	50.0				
iP	22	45	48.1		-6	-12	
i			56.1				
iS			57.1		+70	+145	
				Δ = 45½ mi.			
BOULDER DAM							
iS	22	45	38.6	Δ = 6 mi.			
iP	03	52	19.0				
i			51.1				
iS	04	00	55.5				
i		02	03.3				
e	04	20	38				
i		21	04				
eP	16	47	35				
iP			40.6				
i		48	10.2				
iP	20	41	43.7	I Distant C S			
iP	21	53	38.7	I Distant			

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LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . March, 1944

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

Epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
11	5	18h 58m 34s	Six miles north of Overton
12	6	01h 58m 20s	Eight miles NE of Boulder Dam
13	10	21h 07m 35s	Six miles NE of Boulder Dam
14	22	03h 34m 01s	South end of Greggs Basin
15	26	23h 33m 08s	Two miles NW of Boulder City

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

No.	Date	G.C.T.		
15	26	23h 33m	III	Felt by several in Boulder City

Confidential-not for publication.

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF March 194 4 1.
Time used is G.C.T.

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							iS	02 50 44					iP	02 50 00.4				
													i	34.9				
													iS	37.9				
													I Regional		200 mi.?			
1							e	10 16 40										
							i	51										
							I Regional?											
1							e	13 19 05					iP	13 19 06.3				
													I Distant					
1													iP	21 04 27.3				
													I Distant S					
2	iP	16 59 29.5				+20	iP	16 59 32.6					iP	16 59 32.7				
	I Distant S																	
2	iP	18 11 43.6		-2	-7	+17	iP	18 11 43.8				-22	iP	18 11 50.5				-8
	iP_1		44.8	-22	+12	+77	iP_1		45.2			+80	iP_1		52.2		-20	-77
	i	12	01.9	-22			iS	12	02.4		+95	-165	iP		53.3			
	iS		02.8		+64	+120	iS_1		03.6				iS	12	15.7		-180	
	iS_1		04.4	-45		+170	0	11	16.3				iS_1		18.5		-545	
	im		04.8		-85					95 to 100 mi.						129 mi.		
	II Regional 94 to 100 mi. Epicenter near 37° N, 116° W.																	
3	S-P		18.3?	Defective record			i	12 20 14.2					iP	12 20 11.8				
							i		16.5				iP		13.8			
							iS		40.7				iP		14.7			
							iS		42.5				i		40.2			
													i		41.7			
	I Regional												iS		43.1	140 mi.		+79
5													e	17 29 48				
													e	32 48.5				
													i	34 35				
													I Seismic waves		S C			

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is G.C.T.

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
11	5	BOULDER CITY	i	18	58	52.2				
			i			58.3				
			0			33.8				
			I Local, 53 mi. Epicenter 6 mi. E of Overton.							
12	6		iP	01	58	24.0		+18	+16	-58
			is			26.9		-62	+110	+118
			im			28		300	170	470
			II Local, 15 mi. Epicenter 8 mi. NE of Boulder Dam.							
	6		iP	16	48	24.2		-7	+11	-28
			is			25.6		+80	+53	-143
			II Local, 7 mi.							
	6		e?	20	12	29	1.7			
			eL		16	37	7?			
			II Distant Off Oregon Coast							
	6									
	6									
	6		e?	21	09	17.3	2.2			
	6									
	6									

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
11	5	OVERTON	i	18	58	39.5				+15
			iP			39.7				-23
			i			40.5				
			i			42.6				
			is			43.6	20½ mi.			+130
			I Local, 53 mi. Epicenter 6 mi. E of Overton.							
12	6		i	01	57	28.8				
			iP			29.6				
			is		58	35.1				
			is			36.2		-20	+60	+35
			im			40		70	80	85
			II Local, 15 mi. Epicenter 8 mi. NE of Boulder Dam.				32 mi.			
	6									
	6									
	6		iP	20	12	27.3				
			iP			34.6				
	6		e	20	31	26.0				
	6									
	6									
	6									
	6									

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
11	5	PIERCE FERRY	i	18	58	47.7				+5
			is			56.7				+10
							47½ mi.			
12	6		iP	01	58	30.0		-12	-6	-53
			i			31				
			is			37.1		+134	+200	+75
			is			37.7		+57	+96	-15
					58	19.7	36 mi.			
			iP	20	12	32.8	2.3			
			iP			38.9				
			iP			42.7				
			eS?		15	45.0	2.1			
			iL		17	26.6	10.2			
			iP	20	31	18.6	Aftershock I			
			eP	20	52	04.2	I			
			iP	21	09	23.0	0.74			
			iP			28.9				
			i		15	54.5				
			II Distant - Aftershock							
			eP	21	19	09	I			
			iP	21	30	38.6				
			i		32	12				
			I Distant - Aftershock							

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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
6	e?	22	06	50.1					e	22	06	41.6					e	22	06	46.6	I Aftershock			
6																	iP	22	24	14.9	I Aftershock			
6	e?	22	54	32.8	2.0				iP	22	54	31.8					iP	22	54	37.1				
									eS	23	00	06.9	5.0				II Aftershock							
6	i	23	19	57.8	2.1				iP	23	19	48.8					iP	23	19	56.3				
	I Regional aftershock																iP		20	02.7	2.2			
6																	iP	23	27	40.8	I Regional			
7									e	01	04	08.4					iP	01	04	15.2	I Distant Aftershock			
7									e	03	22	10					e	03	22	17.4				
																	iP			20.9	I Distant?			
7																	i	03	47	11.7				
																	iS			45.4	I Regional			
7	i?	03	51	00.9					i	03	51	09.5					i	03	51	07.0				
	iP			05.6					iP			16.8					iP			07.4				
	iP			09.4					iS		52	26.4					iP			12.1				
	iS			33.0					iS			29.2					iP			15.9				
	iS			36.5													iS		52	46.9				
	II Regional																iS			49.2				
																	i			54.4				
7	i	04	54	08.3					iP	04	54	11.4					i	04	54	11.7				
	I Regional S																							
7									i	05	52	29.0					i	05	52	36.2				
																	I Distant - Aftershock							
7	i	06	12	32.7	2.0				iP	06	12	31.5					iP	06	12	38.5				
																	iS?		15	48.3				
																	I Distant - Aftershock							

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Time used is G.C.T.

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	06	48	29.1	2.3				e	06	48	26.4					e	06	48	33.5				
									iP			28.6					iP			36.0				
																	is?		51	35.8	I	Aftershock		
7	i	08	24	47.8					iP	08	24	46.4					e	08	24	53.9				
	el		29	23	10?												I Distant? Aftershock							
7																	e	08	39	29	I Distant			
7																	i	09	29	22.0				
																	is			59.3	I Regional			
7									e	11	20	27.4	I	S										
7																	i	13	14	28				
																	is			59.5	I Regional			
7																	i	15	50	12.5				
																	is			44.5	I Regional			
7																	e	19	45	07.4				
																	i			08.6				
																	i			11.1				
																	im			14	Seismic waves			
7																	e?	20	49	44	I	C	S	
7																	i	23	17	25.5				
8									iP	01	42	54.3												
									is			56.6				250								
									II Local, 12 mi.															
8									iP	01	44	39.5												
									is			41.7				130								
									II Local, 11 mi.															

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Time used is G.C.T.

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	03	12	44.7					i	03	12	20.8				
									iP			45.9					iP			21.8				
									is			58.8					iP			23.5				
									is		13	00.5					i			38.5				
																	is			39.3				
									I Regional								i			40.2		60	70	
8	iP	07	55	11.9					iP	07	55	00.9			-2	+52	iP	07	55	07.1		-7	-9	
	iP			12.8					iP			01.6					iP			08.3				
	is			33.7					iP			02.7					i			08.7				
	is			35.6					i			13.2					iP			09.5				
	i			37.9		-20	-53	-80	is			15.6			+270	+147	i			23.3				
					111 mi.				0		54	39.9	74 mi.				is			25.1		-290	-305	
	II Regional. Epicenter near Motoqua, Utah.																				93 mi.			
									i	08	18	38.6					i	08	18	19.4				
8									is			42.8				17	is			32.4				
									I Local?								is			34.0		30	55	
																	i	08	56	49.4				
8									I Regional								is		57	06.3		35	45	
																	i	12	36	44.7				
8																	iP			56.5				
																	i		37	12.9				
																	is			13.5				
									I Regional, 85 mi.								is			15.3		115	125	
									i	17	09	35.8					iP	17	09	42.4				
8	is	17	10	09.3					i			50.2					iP			44.1				
																	is			59.4				
	I Regional																is		10	00.9				
																	i	00	50	26.9				
9																	i		52	17.8	I Regional			

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BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
9	i	07	00	32.1				
	iS			54.4				
	I Regional							
9								
9	i	08	42	24.4				
	i			33.0				
	i		43	02.1				
	iS			10.0				
	I Regional							
9	i	08	58	58				
	iP		59	02.9				
	i			31.9				
	iS			34.4				
	I Regional							
9								
9								
9	e	16	25	39.6				
	I Distant C							
9								
9								
9	e	22	17	25				
	I Distant C							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	07	00	21.3				
iS			35.7				
i			37.5				
iP	08	42	41.6				
iS		43	23.5				
iS			28.5				
i	08	58	57.0				
iP		59	01.7				
i			51.2				
iS			53.9				
i	09	30	40.1				
i	16	25	38.2				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	07	00	27.1				
iP			28.2				
i			29.6				
iS			44.9				
iS			45.8				
i	07	21	18.1				
i			56.7	I Regional			
i	08	42	35.1				
iP			39.5				
iP			43.7				
iS		43	13.5				
iS			17.2				
iS			25.2				
iP	08	59	04.7				
iP			09.4				
iP			13.3				
iS			43.9				
i			46.8				
i	09	21	07.3				
iS			50.5	I Regional			
i	09	30	41	I Distant			
iP	16	25	45.3				
iS		29	15.5				
e	20	01	19	I Regional?			
i	21	59	40.1				
iS			59.0	I Regional			
iP	22	17	25.3				
eS		21	07				

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LAKE MEAD SEISMOLOGICAL STATIONS

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

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Time used is G.C.T.

	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	iP	22	26	38.7					iP	22	26	37.8					iP	22	26	37.7				
		i		30	46.6					iS		30	38.1					iS		30	45.3				
																		eL	23	08	54	30?			
																		e		12	23	25			
		II Distant C																M		17	43	15			
	9	i	23	40	56													iP	23	40	49.3				
																		iP			54.4				
																		iS		41	55.2				
																		i			59.0	I Regional C?			
	10	e	00	17	00					iP	00	16	57.6					iP	00	16	54.3				
																		iP		17	13.4	I Distant			
	10	iP	06	14	11.0				-37																
		iS			12.5				+47	I Local															
	10	i	06	51	42.1					i	06	51	45.1					iP	06	51	44.2				
		iP			53.6					iP			54.8					iP			57.6				
		I Regional to Distant C																i		53	30.0				
	10	i	08	43	31.7													iP	08	43	04.4	I Distant			
	10	iP	16	41	15.6													iP	16	41	10.7	I Distant C			
	10	iP	18	42	07													iP	18	42	11.0				
		I Distant C S																i		44	16.5				
13	10	iP	21	07	36.0		+5	+10	-30	i?	21	07	36.5					iP	21	07	42.9				
		iS			38.8		-8	-17	+20	iS			48.7	35 mi.				iS			50.3		-13	+43	+18
		I Swarm-type local, 14½ mi. Epicenter 6 mi. NE of Boulder Dam																				38½ mi.			
	10																	iP	22	26	48.0				
																		iS			31.1		+18	+22	
	11	iP	08	19	04.4		-1	-7	+9	i	08	19	13.0					i	08	19	11.1				
		i			04.9					i			18.9					iS			18.6				
		i			06.2					iS?			20.4									39 mi.			
		iS			06.8		+20	+40	-53					38? mi.											
		I Local				9½ mi.																			

International Seismological Centre

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Bureau of Reclamation, National Park Service
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MONTH OF March 194 8.

Time used is G.C.T.

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	17	41	36.6				
																	iS		43	43.7	I Distant		S	
11	i	19	52	19.4					iP	19	52	08.7				-6	iP	19	52	17.1				
	iS?			27.7					i			09.2		+12		-36	iS			25.5				
									i			10.2				-45								
	I Local, 147 mi.								iS			11.3				-80								
12	iP	02	58	17.4													e	02	58	21.2				
	i			32.1													iP			30.1				
	iS		59	32.9													iP			31.1				
	iS			40.7													i			37.0				
												S					iS		59	34.2				
																	i			43.7				
12	iP	04	15	26.9		-5	+3	-12									iP	04	15	33.7				
	i			28.6				+13									iS			41.2				
	iS			29.3		-13	+44	-62																
12	iP	22	16	34.0		+10	+9	-38	i	22	16	46.3					i	22	17	11.0				
	iS			36.7		0	-22	-36									iP			11.3				
	iS			37.0		-48		+108									iS			18.0				+67
	II Local swarm type, 14 mi.																				367 mi.			
12	i	23	21	51.3					i	23	21	35.6					iP	23	21	58.7				
	i		22	45.3					i		22	16.1					i		22	22.7				
	I Regional, 130 mi.																iS			23.9				
13	iP	10	21	55.6		+14	-7	+62									i	10	22	39.2				
	iS			56.5			-20	-97									iS			47.4				
	iS			56.8		-160																		
	I Local, 6 mi.																							
13	iP	10	26	34.9		+7	-3	+36									iS	10	27	26.5				
	iS			35.9		-93	-13	-86																
	I Local, 6 mi.																							

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Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
13	iP	10	31	32.6		+4	-3	-21
	iS			33.8		-100	-113	-52
	I Local, 6 mi.							
13	iP	10	32	16.0		+6	-2	+24
	iS			17.3		-79	-104	-46
	I Local, 6 mi.							
13								
13	iP	15	34	48.9			-9	
	iS			50.2			-57	
	I Local							
13	i	17	24	30.6			-18	
	i			34.4			-64	
	I Local or disturbance.							
14	e	07	31	14				
	I Distant				C	S		
14	i?	23	10	55.0				
	iP			58.2				
	iS		11	46.4				55
	I Regional				S	C		
14	iP	23	16	46.2				+12
	iS			47.1		-38	-30	-47
	im			48				100
	I Local				4½ mi.			
15	e	08	16	14.4				
	iP			21.8				
	iP			34.6				
	I Distant S							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
i	15	33	20.0				-17
iS			21.7				+80
I Local							
iP	07	31	09				
i	23	10	48.2				
iP			57.0				
iS		11	42.6				
iS			50.7				130
i	15	33	20.0				-17
iS			21.7				+80
I Local							
i	08	16	14.2				
iP			21.0				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iS	10	32	24.4				
iS	10	33	07.7				
iP	07	31	44				
iP	23	11	22.1				
i			34.1				
i		12	22.4				
iS			23.8				85
iP	08	16	53.0				

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Time used is G.C.T.

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	e	09	10	22					i	09	10	20.8					i	09	10	23.9				
	I Distant C S																							
16																	i	07	07	27.8				
																	iS		08	05.8				
16	i	07	08	27.8					e	07	08	49.9					iP	07	09	06.9				
	i			58.2					i		09	10.5					iP			39.8	P of second shoc			
	iS		09	07.0					i			28.6					iS			53.1			60	
	iS			32.0				30	iS			52.9				40	iS		10	17.0	S of second shoc			
	I Regional																						140	
16	i?	07	22	18					iS	07	23	03.8				25	iP	07	21	41.0				
	i		23	18													iP			49.2				
	I Regional																iS		22	27.9			80	
16																	i	12	07	03.0				
																	i			36.9				
																	iS			37.8				
																	I Regional							
16	e	12	39	46					iP	12	39	51.4					i	12	39	51.2				
	I Distant? C S																							
16																	e	13	01	10				
17									i	21	36	51					iP	21	36	21.3				
																	iS		37	07.0				
	I Regional																iS			08.8				-38
17	iS	21	38	35.9					iS	21	38	19.5					iP	21	38	19.3				
																	i			20.0				
																	iS			35.5				
	I Regional																iS			36.8				-78
17	iS	23	46	09.0													i	23	45	42.5				
	I Regional C S																iS		46	45.4				32

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Time used is G.C.T.

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																	1	00	37	59.2				
																	1S		38	15.6			13	
18	1P	01	16	24.6		-6	+10	-20	1?	01	16	24.4					1P	01	16	35.5				
	1S			25.9		+130	-95	-260	1			42.4					1S			44.3		+35	+30	
	II Local																							
19									1P	08	46	12.3					1P	08	46	14.9	C	S		
																	1S	21	46	42.8			+6	
19	1P	21	46	22.1				-27																
	1S			24.5				-48																
	I Local, 7 mi.																							
20									1	07	01	48.4					1P	07	01	33.1			-12	
									I Local, 47 mi.								1			33.9			+157	
20	1P	09	31	26.1		+14	-4	+22	1P	09	31	16.2		-6	-2	-48	1P	09	31	23.1		+18	+95	-22
	1			28.3		-35			1P			17.2			-55	-300	1S			40.7		700	500?	81
	1S?			46.2		-120	-65		1			28.1				+515	0		30	57.0	90½ mi.			
	1S			46.5		+220	-204	-200	1S			29.2			+31	0142	5							
	1S			47.0	102 mi.								87 mi.											
	II Regional. Epicenter NE of Overton.																							
20	1	09	36	21.1					1	09	36	01.1					1P	09	36	12.5				+10
	1			23.0					1			01.9					1			16.7				
	1S			40.2		+18			1			10.1					1S			33.9		-18	-34	+20
	1			40.5		+18	-10	+37	1S			21.1					1S			37.2		+75		-11
	I Regional								1S			22.4			-17									
									1S			28			+55	117								
20									1P	19	35	15.5		-3	-7	-4								
									1S			17.3		-65	+44	+26								
									1S			18.6				80								
									I Local, 9 to 16 mi.															
21	1P	08	08	44.2		-11	+14	+60																
	1S			45.1		+72	+120	+105																
	I Local, 4½ mi.																							

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is G.C.T.

		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
	21	e	22	21	36.0					i	22	21	37.8					i	22	21	41.7				
		iP			38.0					iP			50.4					iP			56.5				
		i			52.4	I Distant	C	S																	
	22	iP	01	01	47.1					iP	01	01	48.7					e	01	01	43.4				
		I Distant?	C	S														iP			49.0				
14	22	i?	03	34	06.9					iP	03	34	11.7			-		iP	03	34	03.9		-25	-20	-88
		iP			11.8					iP			12.5					iS			06.1		+540	-1050	
		i			18.3					iS			19.2		+16	-15		0			00.6	11½ sec.			
		iS			19.7	39½ sec.	+13	-13	+14	iS			20.1												
		I Local, epicenter in S end of Gregge Basin												39 mi.											
	22	iP	04	22	32.5		-5	+5	-9	i	04	22	22.3					iP	04	22	29.6		-10	+7	-15
		iS			53.2		+25	-8	+70	iP			23.4		+8	-5	+22	iP			30.5			+16	
		0			03.1	100 mi.				iS			35.5		+39	+25	+63	iS			46.9		-67	-72	
		I Local to regional, epicenter NE of Overton												70 mi.								90 mi.			
	22	i	08	09	38.1					i	08	09	47.4	01.6				i	08	09	45.4	Disturbance			
	22	i?	08	09	42.5		-2	-8		iP	08	09	55.8		+1	+3	-12	iP	08	09	52.8				+12
		iP			43.5					iS			34.3			+14		iS		10	29.1			-75	+32
		iS		10	13.5		-10	-10	+3	iS			39.9			-27		0		08	59.3	185 mi.			
						155 mi.								195 mi.											
		I Regional, epicenter to SE. Probably Little San Bernardino Mts.																							
	22	i	17	43	44.8					i	17	43	45.3					iP	17	43	47.7				
		I Distant?	C	S																					
	22	i	17	55	17.9					i	17	55	17.4					iP	17	55	21.1				
		I Distant	C	S																					
	22	I Distant	S							iP	19	19	58.3					i	19	19	57.8				
	22	iP	19	37	13.4				+5									i?	19	37	21.4				
		i			15.2				+12									iS			28.2				+10
		iS			16.1				+65													35 mi.			
		I Local, 5 to 14 mi.																							

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Time used is G.C.T.

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
22																	iP	22	22	25.6				+18
																	i			26.1				
																	i			27.5				
																	is			27.9				+65
																	I Local, 12 mi.							
23	iP	12	11	55.3					iP	12	11	56.4					iP	12	11	51.1				
	I Distant																							
23	i	18	10	28					i	18	10	19.2					iP	18	10	20.2				
									i			52.1					iP			28.5				
									is			55.0					is		11	11.2				
	I Regional																is			16.3				
24	i	04	44	03.6					i	04	43	54.2					iP	04	44	00.8				
	is			34.3					is		44	07.0					iP			04.1				
	I Regional C								i			10.0					is			18.5				
24	Two earthquakes in minute								i?	15	03	25.3				+15	i	15	03	12.4				
									iP			26.6		-15	-6	-18	i			13.8				
									is			28.5		-173	-80	-60	i			23.8				
									I Local, 10 mi.								i			26.3				
																	is		04	00.7				15
																	I Regional?							
24	iP	17	08	58.4					i	17	09	29.0					i	17	09	54.3	1.0			
	I Distant C S																							
24	i	19	02	06.1					iP	19	02	38.4		-4	-10	-12	i	19	02	16.6				
									i			39.0					is			25.8				
									i			40.3												
									is?			41.9		-45	-55	+60								
	I Local													Δ = 18 mi.?										
24	e	19	10	07				+10	i	19	10	39.2					i	19	08	07.2				
																	is		10	22.9				
	I Distant																is			31.8				

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MONTH OF March 1944 14.

Time used is G.C.T.

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
24																	i	20	15	21.3				
24	i	21	16	05.5					iP	20	16	20.5					iP	21	16	31.6				
	i			35.8					iP			26.5					iP			32.0				
	is			39.6					iP			28.5					i			37.4				
									is			54.7					i			38.4				
									is			58.1					is		17	10.0				
	I Regional																is			13.1			50	
24									iP	22	10	31.6	C	3										
25	e	04	30	35.7					iP	04	30	42.1					i	04	30	08.2				
	I Distant C S																							
25	iP	08	59	47.4					iP	08	59	33.0					iP	08	59	35.8				
	I Distant C																i			50.2				
25																	iP	19	10	48.8		+5	+3	+22
																	is			50.8		-120	-100	-60
																	I Local, 11 mi.							
25									i	19	35	40.9				-10								
									iP			41.7		+3	+4	-20								
									i			42.9												
									is			43.7		-70	-90	-25								
									I Local				Δ = 147 mi.											
25																	iP	21	44	47.0	I Distant			
26	I Regional? Obscured by wind tremor.																iP	03	57	15.8				
																	is?			36.9				
15 26	iP	23	33	09.6		+14	-10	+178	iP	23	33	20.3					i	23	33	21.3				+7
	i			10.4					is			29.2					iP			21.6				
	is			10.8	600				is			30.0	44 mi.				iP			22.5				
	0			07.9	Δ = 6 mi.				BOULDER DAM								is			31.2		-44	+32	-35
	II Local, epicenter 2 mi. NW of Boulder City. Felt by several in Boulder City.								is	23	33	12.6	1.3sm 10 mi.				is			32.3	48 mi.	-30	-45	

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Time used is G.C.T.

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	14	19	26.1				20	i	14	18	54.3					iP	14	18	46.9				-18
									i		19	16.8					iP			48.1				+35
																	i3		19	04.3		+48	+12	-16
																	i3			04.6			-63	
	I Regional																				90 mi.			
27																	iP	23	56	56.3				-38
									I Local, 5½ mi.								iS			58.4		+65		+75
28	iP	02	09	25.8		+6	+14	-50																
	iS			26.4		+14	-80	-47	I Local, 3 mi.															
28																	iP	22	55	14.0	I Distant			
29																	iP	02	11	06.2				-8
																	iS?			07.9		-8	+17	-35
									I Local, 11? mi.								iS			08.3		-40	+60	
30	iP	09	17	59.6					iP	09	18	08.6					iP	09	18	04.9				
	iP		18	03.7					iP			17.9					iP			06.0				
	i			32.1		+28			iS			52.8			+50	-65	iP			11.7				
	iS			33.2		+58	+53	-70	iS			55.0		-60	+153		i			38.3				
	iS			35.7		+90		-165	i			58.5				+120	iS			45.9		+	-150	
					170 mi.								225 mi.				iS			47.7		+115	-310	-190
																	i			48.5		+220	-175	
	I Regional																				210 mi.			
31	i	01	10	57.1					i	01	11	08.0					iP	01	10	57.0				
	iS		11	32.8				-10	i			11.5					iP		11	07.3				
									iS			52.2			+21		iP			11.2				
									iS			56.3			-19		iS			42.0			-19	
																	i			54.3				
	I Regional																im			56.6		-50		

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

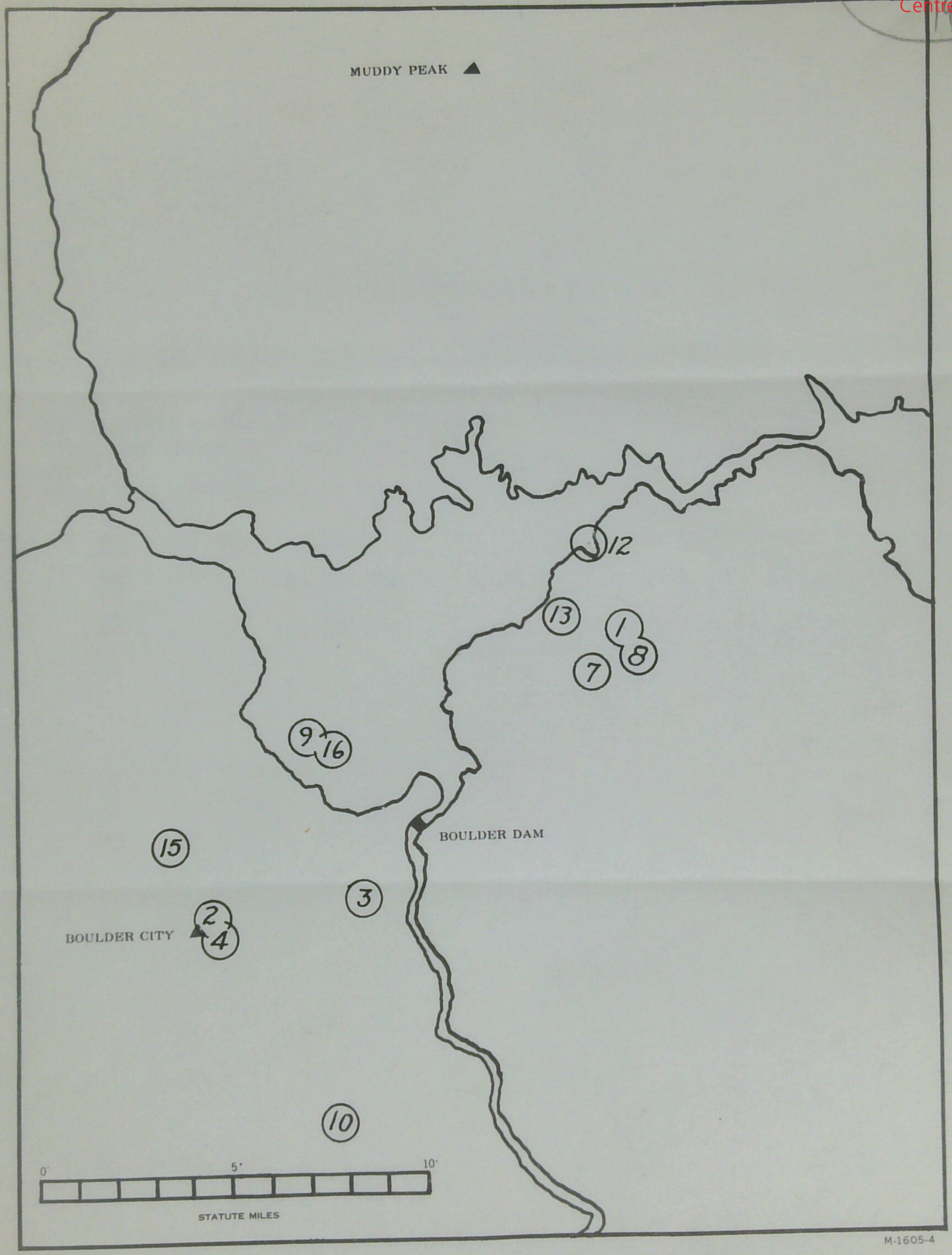
MONTH OF March 194 4 16.

Time used is G.C.T.

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
31	e	03 10 39.6			e	03 10 36			e	03 10 20		
	e	11 04.3										
	I Distant C S											
31	iP	20 43 51.5			iP	20 43 53.0			iP	20 43 48.6		
	I Distant S											
31					iP	22 35 41.2			i	22 35 49.7		
					iP	41.6			iS?	59.9		
					iS?	44.6					52 mi.	
	I Local, 17? mi. Probable epicenter W to NE of Overton											

TENTATIVE EPICENTERS -- January, February, March, and April, 1944

International Seismological Centre



Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . April 1944

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

Epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
16	6	12h 12m 53s	Three miles NW of Boulder Dam
17	23	21h 00m 39s	Five to ten miles S of Red Lake, and approximately forty miles S of Pierce Ferry.

No earthquakes were reported felt in April.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1944

Time used is G.C.T.

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	iP	10	16	52.0					i?	10	16	57.1	Disturbance				i?	10	16	53.5				
	iP			55.0					iP		17	04.1					iP			59.7				
	iP			56.5					iP			05.9					iP		17	01.4				
	iP			61.7					iP			06.4					iP			03.0				
	iS		17	21.6					iP			13.3					iP			09.4				
	iS			24.4					iS			40.5					iS			34.4				
	iS			28.2		-45	-83	95	iS			41.6					iS			36.4			+140	
									iS			43.6			+104		iS			40.5		120		
									iS			47.1					iS			44.8				
	I Regional				150? mi.				i			55.7	190? mi.								175? mi.			
	Epicenter near 34.2° N, 115.7° W																							
1	iP	21	29	15.7		+12	+20	-80																
	i			16.7		+25	+18																	
	I Local, 5 mi.																							
2																	iP	01	29	15.5				
																	iS			33.1				
																	I Local to regional							
2	i?	04	42	13.8					iP	04	42	20.0					i	04	42	13.5				
	i		44	41.6					i		44	51.4					iS		44	33.1				
	iS			50.6					iS			59.8					iS			39.2				
																	I Distant C							
2	iP	12	08	28.7				-7																
	iS			29.7		-10	+27	-55																
2	is?	13	05	17.4					i?	13	05	14.0					i	13	05	22.6				
									iS			28.0					iS			29.7				30
																	I Local, 467 mi.							
3																	e	02	34	38.4				
																	i			57.5	Seismic waves			
3																	i	05	48	37.8	I Distant?			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1944

Time used is G.C.T.

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																	e	12	50	58.0				
																	iP		51	00.5				
																	I Distant?							
3	i	18	03	18.5					i	18	03	19.3					iP	18	03	22.0				
																	I Distant							
3	iP	21	27	34.6					iP	21	27	35.7					iP	21	27	47.5				
	iP			37.0					is			36.5					iP			48.2				
	is			47.5				+24	im			47.3		+14	+32	-17	is		28	03.0				
	im			51.8				-30									is			03.7				
																	i			09.2				
																	I Regional							
4	iP	01	06	07.0		-1	+6	-12																
	is			08.3		+48	+27	-80																
	I Local, 6½ mi.																							
4	is?	04	29	25.2					e	04	29	25.0					iP	04	29	12.2				
									e		30	32.2					iP			16.7				
																	i		30	16.9				
	I Regional?																i			23.9				
4									i	17	00	33.5			60									
									I Disturbance?															
4									i	18	13	57.5					iP	18	13	56.1				
																	I Distant S							
4									i	21	41	23.6				+14								
									iP			23.9		+4	+12	-13								
									is			25.7		-20	-52	-13								
									im			30		60	87	100								
									I Local, 9 to 11 mi.															
5																	iP	04	54	15.0				
																	I Distant C S							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1944 — 3.

Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
5	iS	14	18	23.2				25
5	iP	14	19	08.0				
	iS			08.9				36
5	iP	14	19	46.9				-3
	iS			47.8				60
5	iP	14	20	28.7				+3
	iS			29.6				42
5	iP	14	21	07.8				+8
	iS			08.7				32
5	iP	14	21	46.8				
	iS			47.7				30
	I Swarm of local shocks, 4½ mi.							
6								
6	iP	03	22	38.3		-3	+8	+30
	iS			39.1		-42	-18	-58
	im			39.5		80	64	158
6	iP	03	50	09.3			+9	+28
	iS			10.1			-10	-49
	im			10.5		50	37	122
6	iP	03	56	14.3		-6	+11	+45
	iS			15.1		-39	-21	-70
	im			15.6		87	55	185
	II Swarm of local shocks, 4 mi.							
6								

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	02	40	15.4				
I Distant							
iP	10	53	57.9				
I Distant C S							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 194[illegible] 4.

Time used is G.C.T.

		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
	6																	i	11	19	16.2				
																		iS			28.4				30
																		I Local							
							-12																		
16	6	iP	12	12	55.0		+37	+60	-246	iS	12	13	11.7					iP	12	13	05.0		-1		-7
		iS			56.5		+137	+187	+284	0		12	52.9					iP			07.1				
		BOULDER DAM												39½	mi.			i			12.9		+8		
		iS	12	12	55.5		1.7mm	6 mi.										iSN			13.9			+38	
		II Local, 7½ mi.					Epicenter 3 mi. NW of Boulder Dam											iS			14.1		+60	-95	+29
																						44 mi.			
	7	eP	13	39	34.1					i	13	39	42.4					iP	13	39	37.5				
		iP			42.1													i		40	06.3				
		i		40	09.6													I Distant C							
	8	iP	09	28	04.7					iP	09	28	08.0					iP	09	28	08.1				
																		i			34.2	I Distant		C	S
	8	iP	17	42	57.5					i	17	42	57.8					i	17	42	45.3				
		iS		44	09.6					i		43	19.0					iS			49.9				
		iS			18.1																				
		I Regional																							
	8									i	21	49	19.3												
										i			22.3		95		75								
										I Local, 15? mi.															
	8									iP	22	41	36.8												
										iS			37.1												
										iS?			48.4		25	25	70								
										I Local, 53? mi.															
	9																	iP	04	52	28.3				
																		iS			30.3			120	
																		I Local, 10 mi.							

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1944

Time used is G.C.T.

	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	iS	19	30	57.6					i	19	31	13.2					iP	19	30	27.0				
									iS			19.2					iS		31	11.2				
																	I Regional							
10																	e	21	10	08				
																	I Regional to distant							
11	iS	17	58	25.3					i	17	57	44.0					iP	17	57	59.7				
									i			54.1					i		58	05.6				
									iS		58	08.4					iS			18.2		-9	-13	
	I Regional								iS			11.1					iS			20.5				
12	i	15	34	28.7					i	15	34	42.6					iP	15	34	25.4				
	iP			30.8					i			46.4					i			27.0				
	i		35	25.0					iS		35	45.6					i			44.7				
	iS			28.4													i			46.8				
																	iS?		35	39.4				
	I Regional																iS			46.1				
12	iP	18	25	23.7		-5	+6	+15																
	iS			24.3		+80	+67	-30																
	I Local, 3 mi.																							
13																	i	02	39	39.0				
																	iP			42.8	I Distant?			
13	e	06	44	08.7					i	06	43	53.8					i	06	43	34.2				
									iP			57.9					i			40.4				
									i		45	40.0					i		55	13.0				
	I Distant								i			53.6					iS			39.6				
13	i	13	53	39.7					iP	13	53	39.8	0.56				iP	13	53	43.6	0.5			
	iP			42.3					iP			41.3	1.00				iP			46.0	1.3			
									i			52.0					i			54.0				
																	eS?		55	50	1.5			
	I Distant. Epicenter off Cape Blanco, Oregon (Mineral magnitude = 5.0)																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1944

Time used is G.C.T.

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	15	39	49.3					iP	15	41	26.0				
									I Distant O. S.															
13									i	21	04	19.6		-3	0	+20	i	21	04	28.1				
									iP			19.9		-7	-11		i			36.0				
									iS			21.8		-80	-60		i			38.1				
									iS			23.1												
									I Local, 10 mi.															
14									iP	17	20	46.1												
									i			47.5												
									i			50.4		100	85	80								
									I Local, 7 to 12 mi.															
15																	iP	16	59	14.7			-5	
																	iS			16.7		-130	-30	
																	I Local, 10 mi.							
15	i	21	01	13.9					i	21	01	03.3					iP	21	01	01.5		+13	+8	+70
	i			17.6					i			11.0					iS			03.6		-470	-213	
																	I Local, 10½ mi.							
16	iS	04	11	34.1					i	04	11	02.4					i	04	10	57.5				
					200 mi.				i			05.5					iP		11	06.3				
									iS			48.6					i			39.2				
	I Regional, epicenter to SW								iS			54.3	240 mi.				iS			52.7	250 mi.			
16	iP	09	56	50.5					eP	09	56	48.8					e	09	56	52.7				
	i		57	18.1					iP			54.7					iP			53.6				
									i		57	32.3					ipP		57	13.2				
																	I Distant C S							
16	i	17	14	23.5					i	17	14	15.1					iP	17	14	07.6				+108
	I Local								i			25.7					iS			09.6				+123
																					10 mi.			

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1944 — 7.

Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
17	i	06	28	37.0				
	iP			38.8				
	iS			59.1				
	0		28	09.0				
	I Regional, epicenter to NNW of Boulder City, near 37° N, 115½° W							
17	i	19	29	48.7		+5	-7	
	i			49.3				+9
	I Local							
18								
19	i	02	01	20.2				
	i			30.7				
	I Regional							
19	iP	19	21	04.3		+9	0	-35
	iS			05.7		+38	-73	-30
	I Local, 7 mi.							
19								
19	e	22	42	38.3				
	I Distant C S							
20								
20	iP	10	31	24.0		-3	-12	+37
	iS			25.5		-112	+37	
	II Local, 3 mi.							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	06	28	35.5				
iS			53.3				
iS			55.9				
i			59.1				
iP	19	29	30.1				-6
iP			30.6				
iS			32.6				-48
i			33.4	10 mi.			+155
i	02	01	36.2				
i			44.9				
iP	21	19	47.2				
i			51.0				-90
I Local							
i	22	42	40.5				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
i	06	28	42.8				
iP			44.7				
iS		29	08.4				
iS			12.0				
i	19	29	39.1		-4	-4	+8
i			47.3			-10	
i		30	49.7				+8
iP	02	58	49.0		+4	+5	+22
iS			51.1		-68	-70	+24
I Local, 10½ mi.							
iP	02	00	55.1				
iS			33.5				
iS			37.8	215 mi.			+17
iP	22	42	37.2				
i			54.7				
e		47	43				
e	23	03	31	20			
i	03	44	43.8				
iS			59.9	13.3			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1944 — 8.

Time used is G.C.T.

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
20	iP	17	05	29.9				
	iP			31.6				
	iS			58.7				
	iS		06	00.9				
	I Regional							
20	iP	22	18	43.1				
21								
21	i	10	12	36.8				
	iP			37.6				
	iS			43.9		+8	-11	+12
	iS			45.3				
21								
21								
21								
21								
22	iP	02	28	08.0				
	i			14.5				
OVERTON								
	iP	17	05	41.7				
	iP			44.6				
	iS		06	18.0				
	iS			22.2				
	iP	18	00	04.4				
	iS?			07.8				70
	I Local, 10 to 17 mi.							
	iP	02	28	11.2				
	i			20.7				
PIERCE FERRY								
	iP	17	05	37.6				
	iP			40.2				
	iS		06	11.5				
	iS			14.0				
	iP	22	18	40.4	I Distant C			S
	iP	09	41	02.8		+7	+6	+33
	i			05.6				
	iS			05.8		-215	-142	+79
	II Local							
	iP	10	12	28.8		+14	+12	+70
	iS			31.0		-610	-295	+280
	II Local							
	i	10	42	55.6				
	iP			59.8				
	iS		44	05.6				
	I Regional							
	iP	15	09	16.6	I Distant C			
	iP	23	24	25.1		+6	-10	+24
	i			26.7				
	iS			27.2		-378	+135	+78
	II Local							
	iP	02	28	10.3				
	I Distant S C							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1944

Time used is G.C.T.

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
22	iP	03	46	13.4					iP	03	46	16.8					iP	03	46	13.6				
	I Distant S C																							
22																	iP	22	25	11.3				
																	iS			12.9				70
																	I Local, 137 mi.							
23	i	06	11	27.6					i	06	12	13.2					iP	06	11	26.7				
	iS		12	03.2				17	iS			56.3				25	iS		12	22.9		35		45
																	I Regional, 340 mi.							
23	iP	11	09	32.0				+7	e	11	09	35.7					iP	11	09	35.2				
	i			33.9				-24	iP			36.1					i			35.6				
	e		10	55.9					i			37.5					i			37.1				
	ipP			58.0					e		11	00.3					e		10	58.5				
	i		11	01.1		-10	-7	-28	ipP			02.2					ipP		11	01.4				
	II Distant C S								i			05.2					i			04.6				
																	i		27	52.5				
23																	i	14	32	11		Seismic waves		
23	i?	18	39	56.1																				
23																	iP	20	11	28.7				+13
																	iS			41.7				
17 23	0	21	00	39.2					i	21	00	57.9					iP	21	01	50.7				-29
	iP			54.8					iS		01	17.0		78½ mi.			iS			58.5				-34
	iS		01	05.3		-9	-7	11													40 mi.			
	I Local 54 mi. Epicenter 5 to 10 mi. south of Red Lake,																south of Pierce Ferry.							
24	iP	02	02	59.1					iP	02	03	02.1					iP	02	03	02.3		I Distant S C		
24	i?	02	11	13					i?	02	11	11					iP	02	11	15.3		I Distant C		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 194 4

Time used is G.C.T.

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
24	iP	04	46	19.7				
	iS			58.7				7
					210 mi.			
	I Regional, epicenter to NE							
24								
24	0	13	45	42.5				
	iP		46	14.3		0	-5	+13
	iS			36.1		-18	-20	-35
	iM			36.8		-34	-36	-106
					111 mi.			
	II Regional, epicenter probably near 37.3°N, 114.1°W 77 mi.							
25	iP	04	47	43.3		-5	+6	-10
	iS			44.1			+23	+46
	im			45.4			60	108
	I Local, 4? mi.							
25								
25								
25	iP	21	41	49.0				
25	i	22	01	50.7				
	i			52.8				
	i		02	01.2	48? mi.			+12
	II Local, epicenter may be 10 mi. NW of Overton							

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	0	04	45	30.0				
	iP		46	09.4				
	iS			41.1	165 mi.			22
	I Regional							
	i	05	04	00.3				
	i			32.0				
	I Regional							
	iP	13	46	04.5				+15
	iP			05.7				
	iS?			18.6		-34	+22	
	iS			19.5			-35	90
	i			21.8		160	290	95
					77 mi.			
	iP	19	02	58.9				+22
	iS		03	01.6				+61
	I Local, 14? mi.							
	iP	21	41	52.7				
	iP	22	02	43.5				+24
	iP			43.9				-51
	iS			46.7				+220
	im			48.8	16½? mi.			390

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	i	04	46	09.6				
	iP			12.2				
	iP			16.1				
	iS			43.5				
	iS			47.1	165 mi.			50
	i	05	04	00.6				
	i			03.7				
	iS			34.4				
	iS			35.8				
	iP	13	46	10.6				
	i			12.2				
	iS			29.1				+107
	iM			31.3				295
					97 mi.			
	iP	21	27	51.2				
	iS			25.6				25
	I Regional C							
	iP	21	40	51.8				
	iP	22	02	51.8				
	i			59.1				
	i		03	00.2				
	iS			01.4			-7	+17
					49? mi.			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1944

Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
26	i	02	08	35.2				
	e		13	02				
	I Distant, C. & G. S. 1° S, 131° E							
26	iP	18	56	36.7				
	iS			58.4				
	II Regional, epicenter probably in							
27	iP	06	26	14.8				
	eS		28	18.0				
	i?			21.7				
	iS			27.9				
	II Regional to distant							
27	i	07	24	45.0				
	i			45.5				
	i		25	20				
27	eS	14	56	57				
	Δ = 110°							
	II Distant, C. & G. S. 1° S, 131° E							
27								
27	e	18	12	00				
27								
28	e	05	58	08				
	I Distant? C							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	02	08	36.4				
e		13	07				
Western New Guinea							
iP	18	56	26.7				
iS			40.6				
i			44.1				
Beaver Dam Mts. 37.3° N, 114° W							
iP	06	26	17.8				
iP			25.4				
iP			27.6				
iS		27	33.8				
iS			37.9				
i	07	24	48.8				
i			51.0				
i		25	25.1				
i	14	52	29.3				
e		57	00				
Western New Guinea							
iP	15	08	06.1				
e		12	02				
I Distant							
iS	18	13	23.0				
iP	18	52	06.2				
iS?		53	37.5				
iS			38.5			95	

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	
e	02	08	35.7					
iP			40.1					
e		09	05.3					
iP	18	56	33.1		0	+10	-27	
iS			51.1		-40	-57		
iS			51.6		+50	+185	+70	
i			53.5		+175			
iP	06	26	08.9					
iP			15.6					
iP			27.4					
iP			31.4					
iS			38.8					
iS		28	45.1					
iS			53.2					
i	07	25	55.1					
I Regional?								
eP	14	52	00.9					
iP			09.7					
i		57	59.2					
L	15	18	33.5	30?				
May be part of previous earthquake								
i	18	12	29.5					
iS		13	19.9					II Regional
I Local								
e	05	58	02					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1944

Time used is G.C.T.

No. Date	BOULDER CITY Phase	h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	h	m	s	Period T	Trace Amplitude E	N	Z
28	iP	23	43	21.7		+43	+58	-324									iP	23	44	38.7				+8
	iP																iP			39.2				
	iS			22.8		-75	-93										iS			46.4		+22	+17	
	II Local																							
29	iP	06	27	23.2		0	-6	+13									i	06	28	18.2				
	iS			34.2		-38	+17	-28									i			28.2				
	I Local																							
29									eP	06	33	44.6					e	06	33	53.7				
									e		38	26.8					I Distant C S							
29	e	16	29	22.4					i	16	29	11.3					e	16	29	51.0	I Distant?			C S
29									i	19	26	29.7												
									iS?			31.1												
									iS			32.0				100							
									II Local															
29	i?	21	06	02.0					iP?	21	05	53.5					iP	21	06	02.2				
	iP			02.7					i			54.4					iP			02.8				
	iS			18.8					iS		06	03.0					iS			18.0				
	im			20.5				50	0		05	39.2		Ave. 49½ mi.			im			19.4				90
				82 mi.																		80½ mi.		
	I Local to regional. Epicenter near 37.1° N, 114.6° W																							
30									i	00	18	57.4					iP	00	18	45.1				
																	i		19	02.1				
	I Regional? S																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . May, 1944

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

Epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
18	1	08h 47m 18s	Two miles SW of Boulder Dam
19	27	10h 44m 36s	Five miles NW of Boulder Dam
20	28	18h 41m 13s	Two miles NW of Boulder City
21	28	19h 08m 23s	One mile NW of Boulder City

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

No.	Date	G.C.T.		
	4	10h 01m	II-III-II	Three tremors in less than 10 sec. reported by one person. Verified by seismogram.
	10	13h 07m	III	Reported as a minor quiver, estimated duration as one second.
	11	02h 04m	III	Reported as earthnoise, duration one sec.
	15	05h 21m	II	Felt by one.
	15	05h 35m	III	Felt by three persons, duration 4 sec.
	16	17h 32m	II	Felt by two persons as momentary quiver.
	17	13h 17m	II	Momentary quiver, reported by one person.
19	27	10h 45m	II	Very light typical shock, or earthnoise, reported by one person.
	28	12h 38m	II	Swinging motion reported by one person.
20	28	18h 41m	II	Earthnoise
21	28	19h 06m	II	Earthnoise
	28	19h 56m	II	Earthnoise
	28	22h 43m	II	Earthnoise (two, 10 sec. apart)
	28	22h 45m	II	Earthnoise
	29	00h 29m	II	Earthnoise. Last of series reported by one person in Boulder City.
	30	05h 02m	III or IV	Awakened one person in Boulder City.
	31	05h 40m	III	Verbal reports of four persons, no estimates of duration

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1944

Time used is G.C.T.

	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	1	iP	08 47 19.5		-25 -22 +85	i	08 47 30.5			iP	08 47 30.1		
		iS	20.5		+75 +300	i	38.4			iSN	39.0		
		O	18.0	5 mi.				42.1 mi.		iS	39.8	43.8 mi.	
		II Local, epicenter 2 mi. SW of Boulder Dam				BOULDER DAM iS	08 47 19.8		2mm.				
	1									i	11 46 46		
										I Seismic waves			
	2	iP	00 04 30.8							i	00 04 37.5		
		iS	49.4		13					iP	39.8		
										i	05 03.6		
		I Regional		90 mi.						iS	07.8	120 mi.	21
	4	iP	00 40 34.3			iP	00 40 24.9		+26	iP	00 39 26.6		-5 +5 +20
		iP	36.8			iP	25.6		+23	iP	27.3		+8 +12 -66
		iS	55.3		+14 -6 -23	iS	37.4		-90	iS	40 40.6		-84 -110
		iS	57.3		-27 -25 -37	iS	38.5		+150	iS	41.1		+85
				105 mi.				70 mi.				75 mi.	
		Probable epicenter near Wolf Hole, Arizona 36.8° N, 113.5° W								II Regional			
	4									i	03 22 50.8		
										iS	23 12.4		
										I Regional			
	4	iP	05 24 07.8		+5 -7 +36								
		iS	09.2		+28 -41 +28								
		I Local, 7½ mi.											
	4	i	06 06 53.1			iP	06 06 56.9			iP	06 06 53.8		
		e	18 47.4			i	18 46.3			i	18 47.5		
		I Distant											
	4	iP	07 17 07.7		-4								
		iS	08.9		-23 +25 -38								
		I Local											

International Seismological Centre

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Bureau of Reclamation, National Park Service
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MONTH OF May 1944

Time used is G.C.T.

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	iP	10 01 13.5		+5 +5 -9	iS?	10 01 37.4		+7	i	10 01 29.6		
	iS1	14.7		+52 +72 -95			42? mi.		i	32.6		
	iS2	19.0		-40 +78 -105					iS	38.2		
	iS3	20.3		-70 +80 -160					i	39.4		
	II	3 local shocks, 6 mi. Felt in Boulder City.										
4	iS	12 04 29.0		-16	iP	12 03 57.7		-6	iP	12 04 03.6		
	0	03 36.2	120 mi.		iP	58.9		+11	iS	22.0		+22 +46
	Epicenter 37.5° N, 113.7° W				iS	04 12.3		+17	iS	23.9		+48
					iS	14.6		-38				
							75 mi.		II Regional		95 mi.	
4	iP	16 24 01.4		-18								
	iS	03.6		+40								
	I Local											
4									iP	18 46 09.1		
									iS	10.8		
									I Local			
4					iP	19 05 07.4						
					i	09.6		120				
					II Local							
4	I Distant				e	20 44 13.5			iP	20 43 58.8		
5	iP	02 03 08.4			i?	02 03 00.5			iP	02 03 10.2		
	iP	09.5							iP	18.7		
	iS	35.1							iS	55.6		
	iS	37.4		20					i	59.0		39
	I Regional											
5									e	06 05 31	I Distant	
5	I Distant				iP	08 32 53.3			iP	08 32 52.8		

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1944 — 3.

Time used is G.C.T.

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
5	iP	13	46	16.9					iP	13	46	26.1					iP	13	46	24.4		+4	+6	+18
	iP			22.5					iP			35.2					iP			27.0				
	iS			55.5					i		47	13.8					iP			32.9				
	iS		47	00.5					iS			15.9				53	iS		47	09.4		195	520	230
	i			04.7	210?	mi.		1 30													250?	mi.		
	II	Regional																						
5	iP	13	47	53.9					iP	13	48	04.4					iP	13	48	02.3				+28
	iP		48	00.5					iP			12.9					iP			05.0				
	iS			32.4					iS			51.5					iP			10.0				185
	i			38.4					iS			53.6				205	i			17.3				
	i			41.6				230									iS			57.2		460		670
	II	Regional																						
6	i	00	24	01.9					i?	00	23	59.8					eP	00	23	54.4				
	iP			08.2					i		24	03.3					iP		24	00.7				
	I	Distant							iP			06.6												
6	iP	01	19	15.7		+3	-5	-36																
	iS			17.0		-32	+86	-115																
	I	Local, 6½ mi.																						
6	iP	01	44	39.9					i	01	44	49.5					iP	01	44	47.3				
	iP			46.4					iP			58.3					iP			55.7				
	iS		45	17.1					iS?		45	33.3					iS		45	32.2				
	iS			23.6				30	iS			39.0				+30	iS			33.8				
	I	Regional, 200 mi.							i			45.6	240 mi.				iM			35.8	250 mi.			90
6	iP	05	38	44.6		+6	-4	-33																
	iS			46.8		+10	+10																	
	I	Local, 11 mi.																						
6	iP	17	46	10.3					iP	17	46	09.6	Time?				iP	17	46	12.6				
	i			19.6					i			19.4					i			21.8				
	I	Distant																						
7	iP	15	16	48.5				+13									iP	15	16	50.6				
	i			55.1																				
	I	Distant																						

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MONTH OF May 194 4 4.

Time used is G.C.T.

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
7	i?	16	27	00.4				
	iS			05.3		+11	+5	-12
	I Local, 28? mi. Epicenter may be 18 mi. N by W of Boulder City.							
9	iP	06	25	26.8		+4	+4	-13
	iS			28.2		+28	+23	-45
	I Local, 7 mi.							
9	e	14	28	43				
	I Distant							
10	0	09	06	33.0				
	iP			34.8		-30	-34	-146
	iS			36.0		-325	-147	
	II Local, 6 mi.							
10	0	13	07	26.1				
	iP			27.9		-16	-13	-112
	iS2			28.9				-110
	iS			29.1		-48	+80	
	m			29.2		130	250	255
	II Local, 6 mi. Two epicenters near Boulder City, location? Earthnoise noted by few in Boulder City.							
11	iP	02	04	21.6		-6	+11	-36
	iS			22.8		+157	+153	+85
	II Local, 5½ mi. Felt in Boulder City							
11	e	03	12	13.4				
	iP			20.7				
	iS		13	17.1				
	I Regional							
11	iP	05	15	07.8		0	-2	-26
	iS			09.1		-21	-38	-53
11	iP	05	23	22.1		+12	-7	-83
	iS			23.3		-40	+120	-52

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
7	i?	16	27	00.6				
	iS			08.5		-23	-23	20
	35? mi.							
9								
9								
10	i	09	06	45.0				
	i			45.8				
	iS			52.8				+8
	iS			54.6	43 mi.			
10	i?	13	07	50.7				
	47 mi.							
11								
11	i	03	12	09.6				
	i			19.4				
	iS		13	12.8				
11								
11								

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
7	iP	16	27	07.4		-7		
	iP			07.6			-17	
	iS			18.3			-83	
	iS			18.5		-103		
	56 mi.							
9								
9	iP	14	28	38.5				
	i			47.3				
10	i	09	06	46.7				
	iS			55.0				12
	iS			55.6				
	47 mi.							
10	iP	13	07	38.3				
	iS			47.7				-9
	44½ mi.							
11								
11								
11								
11								

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and Coast and Geodetic Survey

MONTH OF May 1944 5.

Time used is G.C.T.

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	iP	05	23	43.3		0	+6	-10																
	iS			44.5		-11	+23	-30																
11	iP	08	02	57.9		+7	+5	-18																
	iS			59.0		-24	+38																	
11	iP	08	52	36.3				+12																
	iS			37.4		-18		+11																
	Swarm of five local shocks, 5½ mi.																							
12	iP	00	18	29.4		-8	+6	+30																
	iS			30.5		-60	+62	+23																
	I Local, 5½ mi.																							
12	iP	04	40	05.8		0	0	-6																
	iS			07.2		+36	-10	-56																
	I Local, 7 mi.																							
12																	iP	07	30	57.3				-185
																	iS			58.9				+134
																	II Local, 8 mi.							
12	iP	18	10	02.8		+7	-3	-32																
	iS			03.9		-90	+42	-70																
	I Local, 5½ mi.																							
12	iP	20	14	18.8		+6	+7	-29																
	iS			20.0		+17	+55	+31																
	I Local, 6 mi.																							
13	0	03	08	58.5					i	03	09	11.4					iP	03	09	16.9				55
	iP		09	27.0		+3	-1	-6	iP			17.1					iS			29.4				+100
	iS			46.3		-11	-13	+21	i			21.2				-40	iS			29.9				+130
					99 mi.				iS			29.8									64 mi.			
									iS			30.4	65 mi.											
	II Local to regional. Probable epicenter near Wolf Hole, Arizona																							

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Time used is G.C.T.

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													i	19 00 48.6				
													iS	50.7				-25
													I Local, 10½ mi.					
13													iP	19 02 22.2				
													iS	24.2				-80
													II Local, 10 mi.					
14	iP	08 02 13.7				+8												
	iS	15.1				-30												
	I Local, 7 mi.																	
14	iP	09 03 16.9											iP	09 03 19.8	1.35			+37
	ipP	05 23.0											ipP	05 26.1	1.73			
													IV Distant					
14	e	11 06 04.4		+4	+5	+12	e	11 06 08					iP	11 06 06.6	0.93			+22
	iP	04.9	1.23	-7	-8	-67							II Distant					
14	iP	11 06 22.0				+7												
	iS	23.4		-25	+22	+25												
	I Local, 7 mi. Superposed on above waves																	
15													e	06 03 23.5				
													eS	14.9				
													I Regional					
15	iP	14 36 46.2		+6	+9	-22												
	iS	47.3		-25	+32	-49												
	I Local, 5½ mi.																	
16	iP	05 21 13.8		+20	-15	-157												
	iS	15.0		-122	+112	-233												
	II Local, Felt in Boulder City																	
16	iP	05 35 07.1	0.09	+24	-15	-175												
	iS	08.3		-130	+250													
	II Local, Felt in Boulder City																	

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 1944 7.

Time used is G.C.T.

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	iP	05	36	49.1		+4	+5	+22																
	iS			50.3		-22	+33	-43																
	I Local																							
16	iP	06	22	40.6		+5	+10	-35																
	iS			41.7		-34	+91	+63																
	I Local																							
16	iP	06	24	55.9		+7	+6	-18																
	iS			57.0		-18	+47	+14																
	I Local																							
16	iP	06	33	28.9		+9	+12	-52																
	iS			30.0		-44	+107	+44																
	II Local																							
16	iP	09	32	46.5		+5	+5	-20																
	iS			47.6		-9	+32	+14																
	I Local, last of swarm of seven similar shocks, 5½ to 6 mi.																							
16									iP	15	51	31.7				-25								
									iS?			33.2				175								
									I Local, 7½? mi.															
16									iP	16	15	18.4				+15								
									iS?			21.7				-82								
									I Local, 17? mi.															
16	iP	17	31	39.6		-28	-9	-225																
	iS			40.8		-193	+160	-166																
	II Local, 6 mi. Felt by several in Boulder City																							
17	iP	07	06	24.0					I Distant								iP	07	06	26.5				
17	iP	13	16	30.2	0.11	+13	-7	-68																
	iS			31.4	0.23	-55	+96	-96																
	I Local, 6 mi. Felt in Boulder City																							

International Seismological Centre
M-1073

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1944

Time used is G.C.T.

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	04	21	43.4		0	+4	+10																
	iS			44.3		-56	-28	-38																
	I Local, 4½ mi.																							
18	iP	04	56	35.9													iP	04	56	39.2				
	I Distant																e	05	00	29.4				
18	iP	10	49	01.7		+7	+7	-25																
	iS			02.9		-32	+72	-95																
	I Local																							
18																	iP	20	07	22.5				
19	eP	00	32	33.1													iP	00	32	38.1	01.2			
	I Distant																							
19	iP	16	48	54.5													iP	16	48	57.8				
	I Distant																							
19	iP?	19	50	51.7													iP	19	50	54.7				
	I Distant																							
19	iP	23	24	20.1		+6	+7	-32																
	iS			21.2		-22	+50	+20																
	I Local, 5½ mi.																							
20	i	01	01	13.6													iP	01	01	38.3				
	i		04	48.7													i			45.8				
	I Seismic waves?																iS		04	30.6				
20	e	23	40	37													iP	23	40	33.9	I Distant			
21	iP	04	53	07.1													iP	04	53	02.1				
	I Distant																i			22.6				
21	iP	09	44	56.0													iP	09	45	06.5				
	i			59.1													iS			56.2				
	iS		45	38.0																				
	I Regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1944

Time used is G.C.T.

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
21	BOULDER CITY	iP	16	20	21.7				
		i			39.0				
		iS			40.5				
		i			43.1				
		I Regional							
	OVERTON	iP	16	20	10.3				
		i			24.3				
		iS			28.8				
		i			30.0				
	PIERCE FERRY	e	16	20	22.4				
		iP			23.1				
		i			40.4				
		iS			42.7				
21	BOULDER CITY	iP	19	59	48.1				
		i	20	00	08.1				
		i			26.7				
		iS			50.9	360 mi.			
		I Regional. Epicenter near 31½° N, 118½° W							
	OVERTON	iP	19	59	57.5				
		iP	20	00	07.0				
		i			18.4				
		iS		01	07.6	410 mi.			
	PIERCE FERRY	iP	19	59	56.9				
		iP	20	00	07.6				
		i			19.0				
		iS		01	08.5	400 mi.			
22	BOULDER CITY	e?	08	53	05				
	PIERCE FERRY	iP	08	53	02.6				
		I Distant							
22	BOULDER CITY	iP	10	46	26.0				
	PIERCE FERRY	iP	10	46	28.2				
		I Distant							
25	BOULDER CITY	iP	01	18	02.6	0.50	0	0	-8
		iP			03.2	1.43	-17	-9	-80
		ipP		20	16.7	2.20	-20		
		ipP			20.8	1.50		+15	-68
		i		27	31.5		+12		
		i?			33.6		-46	-25	
		e		29	20.7	7.0			
		i		36	16.7	1.05			-5
		ipIpl		44	25.0	0.90			+7
		ipPIpl		46	51.6	1.28			+10
		e	02	04	47.9	1.92			
		V Distant. 21.5° S, 179° W - 600 km. deep. Tonga Islands							
	OVERTON	iP	01	18	06.3	0.48			
		ipP		20	23.7	1.06			
		e		27	35.9	5.4			
		e		44	35	0.95			
	PIERCE FERRY	iP	01	18	05.9	0.54			
		iP			06.5	1.50			
		ipP		20	22.4	2.72			
		i		27	48.2	2.65			
		i		31	48.1	5.71			
		i		36	14.7	1.14			
		i?		44	15.0	1.47			
		ipIpl			24.8	0.79			
		i?		46	41.4	1.11			
		i			48.1	3.08			
		e	02	04	45.7	2.72			
		e?		07	01.1	3.86			
25	BOULDER CITY	e	01	31	50				
		I Distant							
	OVERTON	e	01	31	40				
	PIERCE FERRY	iP	01	31	57.7	0.97			
		Superposed on preceding waves							
25	BOULDER CITY	iP	04	31	22.6	0.85			+4
		I Distant							
	PIERCE FERRY	iP	04	31	25.5	1.05			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 194[illegible]

Time used is G.C.T.

No. Date	Phase	BOULDER CITY 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	iP	13	11	25.1													iP	13	11	27.7	1.74			
	iP			29.1	0.91	-5	0	+18									i		15	20.2	1.16			
	i		15	12.7	1.5												e?		19	13.2	7?			
	i			51.0	2.2												e		24	19.5	6.3			
	e?		21	10.6	10																			
	e?		22	06.8	5																			
	II Distant 3° S, 152° E Normal depth, New Ireland																							
25	i?	13	25	49.8													iP	13	25	52.6	0.96	Superposed		
	i		29	18.0	0.86												i		29	21.1	1.03	"		
	I Seismic waves																							
25	iP	17	20	49.7	0.17	+5	-8	-55																
	iS			50.9	0.25	-30	+132	-114																
	II Local, 6 mi.																							
26	iP	08	08	37.4	0.57												iP	08	08	39.5	0.90			
																	I Distant							
26																	i	12	08	01.4				
																	iS		09	13.7				
																	I Regional							
26																	i	13	22	05.5				
																	i			16.6				
																	i			21.0				
																	iS		23	34.9				
																	iS			41.5				
																	I Regional							
27	iP	05	05	50.6					iP	05	05	50.4					iP	05	05	52.8				
	iP		06	05.1	0.85				iP		06	05.6	1.20				iP		06	07.6	0.90			
	I Distant?																							
27	iP	09	40	15.6	0.94	-7	-3	-13	iP	09	40	18.8	1.16				iP	09	40	18.9	1.15			
	II Distant																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1944 — 11.

Time used is G.C.T.

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
19 27	iP	10 44 37.0	0.10	+32 +43 -182	iP	10 44 45.9	0.19	+7	iP	10 44 47.2	0.2	-8
	iS	38.4	0.11	-20 -45 +54	i	54.4	39.2 mi.		i	55.1		
	im	38.7		64 63 130	BOULDER DAM				iS	56.5	0.21	+18
					iS	10 44 38.0		1.2				45.1 mi.
	Felt in Boulder City						6.5 mi.					
	II Local, 7.2 mi. Epicenter 5 mi. NW of Boulder Dam											
27									e	19 51 10.9		
									iS	17.2		
									iS	22.5		
									I Regional			
28	e	05 29 00			iP	05 28 49.7			i	05 28 56.0		
									I Distant			
28	iP	12 38 05.0	0.10	+40 -23 +210	i	12 38 15.6			i	12 38 17.0		
	iS	06.2		-160 +54 -100	i	24.9			iS	26.9		+17
	im	06.3	0.11	230 210	i	30.1	45? mi.				49½ mi.	
	II Local, 6 mi. Probable epicenter NW of Boulder City. Felt in Boulder City											
28	iP	16 03 47.5	0.06	+4 -6 +25								
	iS	48.8	0.17	-17 -24 -22								
28	i	18 01 32.8		+16								
	iS	33.9	0.12	+12 +12								
	im	34.0		27 32 33								
28	iP	18 01 42.0	0.09	+4 +8 +42								
	iS	43.1	0.12	+14 +15 +16								
	im	43.2	0.16	50 80 72								
20 28	iP	18 41 14.9	0.10	+38 -23 +247	i	18 41 25.7			iP	18 41 26.8		0 +3
	iS	16.0	0.18	-235 +73 +107	iP	26.0			iS	36.7		-9 -39 +23
	im	16.6		430	iS	34.6		+15	iS	37.4		-20 +12 -40
					i	35.3	44.4 mi.				48.8 mi.	
	II Local, 5.7 mi. Epicenter 2 mi. NW of Boulder City. Earthnoise in B. C. Boulder Dam iS = 1 mm.											

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1944

Time used is G.C.T.

		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
21	28	iP	19	08	24.9	0.19	+106	-72	+	iP	19	08	35.3					iP	19	08	36.7		+3	+1	+7
		iS			26.1	0.26	?	+215	-700	iP			35.9					iP			38.3				-22
										iS?			44.6					iS			46.6		-33	-35	+63
										iS			45.9	45 mi.				i			47.3		-50	-117	-104
		II Local, 7 mi.								BOULDER DAM								i			47.6		135		-114
		Epicenter 1 mi. NW of Boulder City								iP	19	08	25.8									49 mi.			
		Earthnoise in Boulder City								iS			27.8	0.3	2.8mm.		10 mi.								
	28	iP	19	56	25.1	0.10	+6	-5	+13																
		iS			25.9	0.20	+20	-23																	
		im			26.3	0.20	-60	-82	+26																
		I Local, 7 mi. Earthnoise in Boulder City																							
	28	i	22	42	29.0				+12																
		iS			29.9		36	45	-25																
																		i	22	42	50.6		10		
	28	iS	22	42	43.6		17	28	35									i	22	42	50.6		10		
		I Local disturbance																							
	28	iP	22	42	49.1		+21	-26	+105	iS?	22	43	09.6		10	10		i?	22	43	02.7		+5	+5	+7
		iS			50.2		+80	+66	+60					46 mi.				iS			10.9		+18	-25	
		im			50.6		135	125	225									iS			11.4				-26
		II Local, 6 mi. Epicenter probably near 20 and 21. Earthnoise in Boulder City																				49 mi.			
	28	i	22	42	54.7			-3	+12																
		iS			55.9		-20	-43	45																
	28	iP	22	44	49.6				+13																
		iS			50.7	0.20	-33	-48	50	Earthnoise in Boulder City															
	29	iP	00	28	51.4				+15																
		iS			52.3				50	Last of swarm of local shocks 4 to 6 mi. Earthnoise in Boulder City															
	29	e	02	51	17.6					iP	02	51	18.3					iP	02	50	43.6	I Distant			
	29	e	02	58	43.2					iP	02	58	47.3					iP	02	58	43.8	I Distant			
	29									iP	03	33	31.6					iP	03	34	03.4	I Distant			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1944

Time used is G.C.T.

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
29	iP	13	34	14.7	0.13	+7	-6	+17																
	iS			15.9	0.24	+35	+20	-28																
	I Local, 6 mi.																							
30	iP	03	51	12.1		-5	+5	-12	iP	03	51	10.3					iP	03	51	14.9				
30	iP	08	01	51.9	0.28	-24	+31	+17	iPZ	08	02	01.0	0.20			+20	iP	08	02	02.7		-3	+2	-7
	i			52.6					iP			01.2					i			03.7		+6	-5	-10
	iS			53.3	0.16	+430	-175		iS			08.9		-15	+23	+24	i			10.9		-12	-17	-15
									i?			09.7	40 mi.				iS			11.8		-21	+70	+30
									BOULDER DAM												44½ mi.			
									i	08	02	51.7												
									i			53.1		1.5mm.		7 mi.								
	II Local, 7 mi. May be double, epicenter probably SW of Boulder Dam & SE of Boulder City. Felt in B. C.																							
30	i	10	07	19.1					iS	10	08	05.9					i	10	07	24.6				
	iS			46.6													iS		08	00.7				
	I Regional																							
30	iP	10	14	57.3					iP	10	14	54.7					iP	10	14	55.9				
	i		15	19.6					i		15	18.8					i		15	20.1				
									i		17	04.2					I Distant							
30																	i	13	49	31.5	I Regional			
30	iP	21	08	38.4	0.17	+11	-10	+72																
	i			39.7	0.26	-50	-90																	
	I Local, 6½ mi.																							
31	iP	05	40	10.9	0.18	-15	-10	+30	i?	05	40	20.1					i?	05	40	21.3				
	iP			11.6		+23	-30	+98	iS_1			27.8					iPZ			22.0				
	iS			12.4		+227	+125	320	iS_2			28.5					iS_1			30.6			-46	+18
	i?			13.1		-150	-150						40 mi.				iS			31.3			+12	-54
	0			08.7													iS_2			31.5			+34	
	0			09.4																	46 mi.			
	II Local - double? 8 mi. Epicenter probably near 19 - about 5 mi. NW of Boulder Dam Felt by several in Boulder City																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1944

Time used is G.C.T.

	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	1P	07	31	03.2	0.18	+8	-4	+40																
	1S			04.4	0.18	-42	-80	-66																
	I Local																							
31	1P	10	32	35.9	0.13	+10	-8	+67																
	1S			37.1	0.23	-67	-108	-85																
	I Local, 6 mi.																							
31	1P	11	02	38.0				-12	1P	11	02	39.9					1P	11	02	36.1				
	I Distant																							
31	1P	13	07	38.7	0.17	+12	-10	+90																
	1S			40.0	0.25	-90	-128	-113																
	II Local, 6½ mi. Felt by few in Boulder City																							
31	1S	15	56	24.5					1S?	15	56	15.5					1P	15	56	02.6				
	I Regional																1S			30.8				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . June, 1944

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

Epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
21	16	02h 24m 50s	Two miles NW of Boulder City. Near epicenter 20.
22	16	07h 02m 20s	Two miles SW of Boulder Dam at epicenter 18.
23	28	00h 56m 23s	Seven miles NE of Boulder Dam.

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

No.	Date	G.C.T.		
	1	11h 22m	II	Momentary earthnoise in Boulder City
	4	13h 02m	II	Earthnoise noted in Boulder City
	4	15h 19m	II	Earthnoise from typical light shock in Boulder City
	16	02h 13m	II	Probably felt by one or more. Four were reported in evening to midnight without exact time.
21	16	02h 25m	III	Felt by several people in Boulder City. Duration estimated by one.
22	16	07h 02m	II	Awakened one person in Boulder City at midnight, distinguished as two shocks. Record shows them 5 seconds apart.
	17	06h 19m	III	Felt by several in Boulder City
	29	09h 05m	II	Felt by few in Boulder City
	29	09h 10m	II	Felt by few in Boulder City

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF June 1944

Time used is G.C.T.

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	11 12 13.1		+4	-1	-30
													iS	24.4		+17		
													I Local, 58 mi.					
1	iP	11 21 34.1	0.18	-6	-4	+15												
	iS	35.3	0.21	-20	-55	-21												
	I Local, 6 mi. Earthnoise in Boulder City																	
1	iP	20 32 28.5	0.18	+11	-11	+70												
	iS	29.8	0.18	-75	-220													
	II Local, 6½ mi.																	
2	i	01 38 04.9																
	i	32.8																
	Seismic waves																	
3	iP	04 22 19.3					iP	04 22 20.2					iP	04 22 22.8				
	I Distant																	
3	e	07 20 52.5					iP	07 20 53.0					iP	07 20 49.4				
	iP	54.9																
	I Distant																	
3	iP	19 21 58.3					iP	19 22 02.3					iP	19 22 04.6	0.39			
	iP	59.4	0.30	-7	-14		iP	05.4					iP	10.2				
	iS	22 28.3					iS	38.0		+10	-24		i	41.9	0.46			-27
	iS	32.3	0.37				iS	39.8				-55	iS	50.1				
	II Regional 155 mi. Epicenter west of Argus Mts., Calif. 175 mi.														205 mi.			
4	iP	00 08 56.1					eP	00 09 01					iP	00 08 52.7				
	I Distant																	
4	iP	13 01 39.5	0.19	+8	-5	+42	i	13 01 48.6					i	13 01 51.3				
	iS	40.7	0.19	-215	-230		i	58.5					i	02 01.4				
							i	02 00.2										
	II Local, probable epicenter 3 mi NW of Boulder City. Earthnoise in Boulder City.																	

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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and Coast and Geodetic Survey

MONTH OF June 1944

Time used is G.C.T.

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
4	iP	13	35	58.5				
	i		36	07.7				
	I Distant							
4	iP	15	17	46.0			-4	+20
	iS			47.2		-114	-112	
	II Local, 6 mi. Earthnoise in Boulder City							
4	iP	15	18	49.4			0	+10
	iS			50.6		-48	-47	
	I Local, 6 mi.							
4	i	15	22	21.8				
	i		23	21.2				
	I Regional							
4								
4	eP	19	46	43.5				
	I Distant							
4	eP	20	04	34.3				
	I Distant							
5	eP	00	55	03.8				
	I Distant							
6	iP	00	54	14.3				
	iS			15.5		-32	-56	
	I Local, 6 mi.							
6	iP	00	54	30.8				
	iS			32.0		-43	-55	
	I Local, 6 mi.							

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
4	iP	13	35	58.7				
	i		36	08.0				
4								
4								
4								
4	i	15	22	33.8				
	i			36.4				
	iS		23	17.4				
	iS			21.3				
	iS			23.3				
4								
4								
4	e	20	04	34				
5								
6								
6								

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
4	iP	13	35	51.8				
	i		36	01.8				
	i			10.7				
4								
4								
4	iP	15	22	34.4				
	iP			42.5				
	iS		23	34.8				
	iS			39.4				
4	eP	17	26	23.1				
	iP			40.4				
4	e	19	46	42.1				
	iP			50.0				
4	iP	20	04	29.2				
	i			37.6				
5	iP	00	55	06.8				
6								
6								

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6	iP	03	57	37.6					iP	03	57	39.2					iP	03	57	40.7				
	e	04	01	26.6					e	04	01	26.4					e	04	01	32.2				
	I Distant																							
6	iP	11	59	50.9					iP	11	59	50.1					iP	11	59	53.1				
	i	12	00	01.4					i	12	00	05.5					i	12	00	08.8				
	i			06.7													e		02	55.7				
	I Distant																							
6	iP	13	02	39.2					iP	13	02	38.6					iP	13	02	41.8				
	I Distant																							
6	e?	23	25	35.5													i	23	25	18.0				
	e?			38.9													iP			19.5				
					60 to 67? mi.												i			23.8				
																	is			25.5				
																	isE			26.1	387 mi.			
	I Local, Probable epicenter S to SSE of Pierce Ferry, along Grand Wash Cliffs																							
6	e	23	30	27					i	23	30	30.6					iP	23	30	26.3				
	e			36					i		35	29.4					i		35	31.4				
	I Distant																i		35	56.5				
7	iP	09	01	39.0	0.19	+9	-12	+37	iE	09	01	48.1					i	09	01	49.9				
	is			40.5	0.20	+120	-42	-58	isE			56.0					isE			59.5				
	II Local, 7½ mi. NW												40 mi.								47½ mi.			
7	iP	10	27	42.7					iP	10	27	42.1					iP	10	27	44.0				
	i		28	01.1					i		28	01.1					i		28	03.3				
	I Distant																							
7	e	12	37	19.2					i	12	37	08.3					e	12	37	12.6				
	e		38	50.2					i			29.2					i			28.6				
	I Distant								i		40	21.2					i		40	22.9				
7																	iP	17	18	26.8		+10	-4	+45
																	is			28.1		-72	-40	-60
																	I Local, 6½ mi.							

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7																	iP	19	04	59.7		+30	-10	+147
																	iS		05	01.0		-345	-140	-140
																	II Local							
7																	iP	19	27	08.9		+11	-7	+47
																	iS			10.2		-80	-44	-52
																	I Local							
7																	iP	19	31	13.9		+8	-2	+33
																	iS			15.2		-78	-38	-50
																	I Local							
7	i	21	11	37.2					i?	21	11	50.6					iP	21	11	51.3				
	iP			41.5					iP		12	02.8					iP		12	00.8				
	iP			51.4					iS			45.6					iP			02.5				
	iS		12	25.7					i			51.9					iS			45.0				
	i			27.8													iS			46.3				
	I Regional																							
8	iP	01	12	27.4					i?	01	13	01.1					iP	01	12	56.5				
	iP			31.1					iP			07.5					iP		13	04.9				
	iS		14	14.8					iS		14	17.4					i			08.1				
	iS			18.4					iS			23.6					iS		14	00.1				
	I Regional																iS			02.3				
8	iP	01	33	16.2					i?	01	33	19					iP	01	33	14.6				
	i			19.1					iP			20.5					iP			22.0				
	iS?		34	02.9					iS		34	05.4					iP			26.2				
	iS			05.5					iS			11.3					iS		34	20.3				
	I Regional																							
8	iP	02	47	29.4													iP	02	47	26.7				
																	i		49	24.5				
	I Distant																				725	m.?		
8																	iP	06	36	37.6		+13	-5	+52
																	iS			40.9		-108	-52	-55
																	I Local							

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No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
8								
9	iP	20	33	07.4		+10	+14	-38
	iS			08.9		+48	-32	-42
	I Local							
9	i	23	02	05.0				
	iS			38.3				+33
	I Regional?							
10	iP	11	12	31.0				-22
	iP			37.8				
	iS		13	10.6		-120	-160	-190
	i			17.9				
	II Regional. Epicenter near 34.0° N, 116.9° W. Felt - Seis. Lab. Pasadena							
10	iP	11	16	12.6				
	iP			16.2				
	iS			21.8		+23	+45	+40
	i			28.7				
	I Regional							
10	iP	11	26	52.6				
	iP			56.5				
	iS		27	32.5		-8	-9	+9
	i			39.2				
	I Regional							
11	e	00	18	40.6				
	i			47.3				
	i		19	04.2				
	I Seismic waves. Regional?							
11	iP	03	18	22.2			-3	-15
	iS			23.7		+17	-12	-20

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
8	iP	17	45	16.5				
	iS?			19.8			135	
	I Local, 17? mi.							
9								
9								
10	iP	11	12	40.7				
	iP			50.8				
	iS			44.2		+45		
	iS			47.3		+120		
10	iP	11	16	21.9				
	iP			26.3				
	iP			32.2				
	iS		17	14.1		+44		
10								
11								
11								

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
8								
9								
9								
10	iP	11	12	39.0				
	iP			45.3				
	iP			49.2				
	iS		13	27.5				+260
10	iP	11	16	20.7				
	iP			30.1				
	iS		17	08.7				+95
10	i	11	27	01.1				
	i			11.6				
	iS			49.1				
11	iP	00	18	59.8				
	iS		19	15.8				
11								

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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	iP	03	19	44.7	0.20	+8	+10	-35																
	iS			45.2	0.26	+50	-34	-50																
11	iP	03	30	42.6		+6	+8	-18																
	iS			44.1		+38	+8	-27																
							-22																	
	I 3 local shocks, Δ = 7.7 mi.																							
11	iP	05	19	47.6					e	05	19	44.4					iP	05	19	50.6				
	iP			55.6					iP			50.6					iP			59.2				
	iS		20	39.0		40	15	80	iS			55.6					iS		20	42.2				
	I Regional								iS			59.1				180	iS			47.3				225
11	iP	13	07	35.5					e	13	07	43.4					iP	13	07	32.0				
	iP			41.7					i		08	36.2					iP			37.5				
	iS		08	17.5													iS		08	29.7				
	i			24.6													iS			32.1				
	I Regional																i			45.4		50		40
11	eP	19	27	10.3													e	19	26	04.5				
	I Distant																							
11																	iP	23	26	48.0				
																	iP			50.1				
																	iS			59.0				
																	iS			59.8				45
																	I Local to regional, 46 mi.							
12	iP	01	58	16.7													iP	01	58	20.1				
	I Distant																							
12	iP	04	45	54.7	0.20	+8	+8	-28									e	04	46	05.1				
	iS			56.3	0.30	+40	+8										iS			14.4				
	I Local																							

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BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
12	iP	10	46	15.0	0.26	-5	-5	-27
	iP			15.2	0.32	-12	-20	-115
	iP			22.1	0.44	-80	-120	
	i			27.8				
	is			53.8	0.77	-500	+500	
	III Regional, 210? mi.							
12								
12	iP	11	14	29.0				
	is		15	06.8				
	I Regional							
12	iP	11	17	16.2	0.21	-25	-20	-92
	iP			16.8	0.33	+93	+120	-460
	iP			23.5	0.63	-235	-380	
	is?			54.2		Disappears		
	III Regional							
12	iP	11	35	51.6				
	is		36	32.1				
	I Regional							
12	iP	11	39	49.9				
	iP			53.8				
	iP			57.3				
	is		40	28.8				
	is			31.1				50
	I Regional							
12								
12	iP	11	49	26.5				
	iP			34.3				
	iP			38.7				
	is		50	06.2	I Regional			

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	10	46	24.3				
iP			25.0				
i			31.7				
i			35.6				
is?		47	15.3	Disappears			
i	11	14	44.4				
is		15	25.9				
iP	11	17	25.5				
iP			26.2				
iP			32.5				
i	11	35	52.1				
i		36	44.6				
i	11	40	09.3				
is			47.5				
is			50.2				
i	11	49	45.3				
is		50	27.2				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	10	46	22.9				
iP			23.2				
i			26.3				
i			31.4				
is?		47	11.1				
i	11	03	20.7				
is		04	06.4	I Regional			
iP	11	14	33.8				
iP			49.9				
is		15	22.0				
iP	11	17	24.2				
i	11	36	01.7				
i			47.7				
iP	11	39	57.7				
i		40	06.5				
is			46.4				
i			49.1				150
iP	11	44	11.2				
iP			19.5				
is			59.3				
iP	11	49	34.7				
iP			43.3				
is		50	23.1				90

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12	iS	11	56	22.6					iS	11	56	41.7					1	11	55	50.5					
	I Regional?																iS		56	07.8					
12	iP?	11	58	46.2					iS	11	59	37.3					1	11	58	54.5					
	iS		59	14.8													iS		59	03.9					
	iS			18.3																					
	I Regional																								
12																	1	12	27	37.6					
																	iS		29	22.5					
12																	1	13	18	35.5					
																	iS		19	23.5					
12	iP	13	46	07.2					i	13	46	17.1					iP	13	46	15.0					
	iP			14.1					iP			26.5					iP			18.1					
	iS			46.0		-25	+24		iS		47	07.3				53	iS		47	03.3					170
	iS			48.1				+48																	
	I Regional																								
12																	1	13	50	55.7					
																	iS		51	45.8					
																	I Regional								
12																	1	14	09	52.9					
																	iS		10	40.9					
																	I Regional								
12																	1	14	44	08.1					
																	i			16.5					
																	13			56.1					
																	I Regional								
12																	iP	15	52	01.8					
																	iP			10.3					
																	iS			49.8					
																	I Regional								

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12	i	16	02	12.1													iP	16	02	14.3				
	i			45.9													iP			22.8				
																	is		03	01.9				
																	I Regional							
12	i	16	26	17.5													iP	16	26	06.3				
	i			39.0													iP			18.6				
	i			56.7													i			55.5				
	I Regional																is		27	07.3				
12	i	20	23	38.1					1S?	20	24	36.4					iP	20	23	46.2				
	i			45.3					is			38.9					iP			52.5				
	is		24	16.8													iP			55.1				
	I Regional																is		24	33.4				
12	iP	22	21	59.9					i	22	22	10.0					iP	22	22	07.8				
	iP		22	07.2					is			58.9					iP			10.4				
	is			38.6													iP			15.4				
	is			46.1													is			56.4				
	II Regional																							
13	iP	00	20	07.2					is	00	21	06.9					iP	00	20	14.8				
	i			45.9													iP			19.4				
																	iP			25.1				
	I Regional																is		21	02.5				
13	is	05	23	32.1					is	05	23	51.2					is	05	23	48.9				
	I Regional																							
13	iP	07	28	46.2													is	07	29	39.1				
	is		29	25.4																				
	I Regional																							
13	i	08	28	45.5					i	08	29	08.9					iP	08	28	55.1				
	iP			46.7					i			28.0					iP		29	01.3				
	i			59.9					i		30	18.8					i			13.7				
	is		30	04.7													i			22.0				
	II Regional (2 shocks?)																i		30	22.4				

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	BOULDER CITY								**OVERTON**								**PIERCE FERRY**							
13	i	08	48	08.8													i	08	48	09.5				
	iP			15.0													i			01.4				
	iS		49	16.1													i		49	06.2				
	I Regional?																							
13	iP	10	03	04.9													iP	10	03	08.4				
	I Distant?																							
13	iP	11	08	50.8					e	11	09	04					iP	11	08	48.3				
	iP			54.1													iP			54.0				
	iP			56.5													i		09	06.9				
	iS		09	56.1					e		10	10.5					iS		10	18.7				
	iS		10	06.6													iS			30.9				
	II Regional																							
13	iP	13	21	29.2													i	13	21	41.1				
	iP			35.2													iP			47.1				
	iS		22	08.6													iS		22	24.8				
	I Regional																							
13	iP	17	30	55.0					-10	i	17	31	13.7				iP	17	31	02.5				
	iS		31	33.9						iS			55.7				i			11.1				
	I Regional																iS			51.2				
14	iP	00	05	15.9					-12	i	00	05	34.8				iP	00	05	23.4				
	iP			22.0						iP			37.9				iP			32.1				
	iS			54.5					+65	iS		06	14.2				iS		06	11.5				
	iS			56.7						iS			16.6											
	I Regional																							
14																	iP	00	28	20.4				
																	iS		29	04.4				
14	iP	03	32	30.0						i	03	33	17.0				iP	03	32	37.7				
	iS		33	09.5						iS			30.9				iS		33	26.1				
	I Regional																							

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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
	14	iP	09	47	12.0					iP	09	47	31.5					iP	09	47	19.7				
		iP			20.3					iP			36.2					iP			22.6				
		iS			47.7					iS		48	11.7					iS		48	07.8				
		iS			57.7																				
		I Regional																							
	15	iP	20	45	03.6					iP	20	45	17.3					i	20	45	16.9				
		iP			08.3					iP			22.8					iS		46	00.4				
		iS			42.5					iS		46	04.3												
		iS			44.6																				
		I Regional																							
	16	iP	02	13	02.2				-18	iP	02	12	57.0					iP	02	12	46.0				
		iS			03.3				+140	iS		13	34.7					i			54.5				
		I Local, probably felt in Boulder City																iS		13	28.6	Seismic waves			
21	16	iP	02	24	50.1		+60	+5	?	i?	02	25	02.4					iP	02	25	02.8				
		iS			51.4			+90		iS			09.6					iS			12.0			-20	
		m			51.8			235							44½ mi.			iS			16.0			+28	
		Felt by several in Boulder City								BOULDER DAM												49 mi.			
		II Local, 6½ mi.								iS	02	24	53.1	12½ mi.											
		Epicenter 2 mi. NW of Boulder City, near 20																							
	16	iP	04	29	22.5					e	04	29	07.3					iP	04	29	26.1				
		I Distant																							
	16									iP	05	39	23.7			+8									
										iS			24.7			-40									
										II Local															
22	16	iP	07	02	21.8		+8	+5	-30	iS	07	02	39.9	42 mi.				iP?	07	02	36.2				
		iS			22.9		-230	+235	240	BOULDER DAM								iS?			41.8				
		iP			27.4					iS	07	02	22.7		⩽ 5 mi.			iS?			47.5	44 mi.			
		iS			28.5		-225	+270	280	i			23.3												
		O			20.2					iS			29.0												
		II Two local shocks, 5½ mi. Epicenter at 18. Reported felt by one person, awakened 2 at midnight.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 194 4 — 12

Time used is G.C.T.

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	21	55	56.2	1.16	-3	+3	+10	eP	21	56	01.2					iP	21	55	54.7	1.0			
	iP			59.5	1.51	+25	-45	-175	iP			08.2					i	22	01	27.5				
	eEZ		59	39.2	5.60				iP			16.3					iM		02	58.2	8.34			
	eSN			42.6					e	21	59	59.6												
	iNZ	22	01	57.7	2.28				i	22	02	02.2												
	iE		04	48.3					iZ		04	58.0	7.2											
	iZ			51.2	7.13																			
	II Distant, C. & G. S. Epicenter 19° N. lat., 105° W long.																							
16	iP	23	20	10.4													iP	23	20	07.9				
	I Distant																eS		26	22.0				
17	iP	06	19	47.6		+25	-3	-125	i	06	19	59.6					i	06	19	59.8				
	iS			48.2		-400	-450		i		20	00.3					i		20	00.5				
	O			46.7	3.2 mi.				iS			07.3	43 mi.				iS			09.0				
	II Local, epicenter one mile E of Boulder City. Felt by several																i			10.0	46½ mi.			
17	iP	20	58	50.1		+4	+1	-5	i	20	59	09.5					i	20	59	02.9				
	iS			54.9		+8	+11	+20	i			16.7					iP			03.9				
	O			43.0					i			17.8	70 mi.				iS			18.5				
	I Local, 24½ mi. Probable epicenter SW of Boulder City																iS			19.9	75 mi.			
17	iP	23	41	44.3					iP	23	41	54.0					iP	23	41	51.8				
	iP			51.4					iP		42	03.4					iP		42	00.1				
	iS		42	24.0	220 mi.				i			40.8					iS			40.0	270 mi.			
	I Regional								iS			45.1	255 mi.											
18	iP	02	12	33.8													iP	02	12	36.7	I Distant			
18	iP	02	54	26.2	0.17	-1	+1	+30									iP	02	54	07.6				
	iS			27.0	0.17	-32	-28	+93									iS			17.7	52 mi.			
	I Local, 4 mi.																							
18	iP	14	43	19.3													iP	14	43	22.0				
	I Distant																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 1944

Time used is G.C.T.

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
18	e	22	15	35.5					i	22	15	00.2					iP	22	14	48.8				
	iP			47.5					is		17	25.8					e		17	09.0				
	is?		17	18.3													is			14.3				
	I Regional?																							
19	i	00	04	29.6					iP	00	04	39.5					iP	00	04	38.6				
	iP			34.9		-20	-14		iP			43.7					iP			42.8				
	iP			41.5					iP			48.0					iP			53.7				
	is		05	25.3	1.0	+58	-40	-150	i			42.0					is?		15	57.2				
	is			30.9	1.05	-265	+265		i		05	33.5												
	II Regional, slight damage in Los Angeles area								is			48.1	1.08		+320									
19	e	01	55	39.4													iP	01	55	09.2				
	I Distant																							
19	iP	03	07	03.2	0.65	-7	+3		i	03	07	13.7					iP	03	07	11.6				
	iP			15.0	0.87				iP			16.7					iP			16.4				
	is		08	00.5	0.87	+32	+100	-105	iP			29.0					iP			26.0				
	is			06.6	1.29		-145	-230	i		08	17.8	0.68		-80		is		08	22.5	0.98			360
	is			08.7	1.04	+285			is			23.1	0.98		+145									
	II Regional, slight damage in Los Angeles area								i			27.3	0.98	+305	-160									
19	i	07	29	58.8													i	07	29	58.4				
	i		30	44.5													iP		30	05.8				
	I Regional?																is		31	09.6				
19	iP	23	57	35.5					i	23	57	47.5					iP	23	57	45.7				
	is		58	11.7					is		58	33.5					is		58	01.8				
	I Regional																							
20	eP	02	02	03.3					e	02	02	07.2					iP	02	02	01.4				
	iP			10.6					i			09.5					iP			07.6				
	I Distant																e		08	01.1				
																	is			28.2				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 1944

Time used is G.C.T.

	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	12	28	08.4					iP	12	28	08.5					iP	12	28	11.0				
	i			18.7					i			18.9					i			21.7				
	I Distant																							
20	e	13	33	11.2					e	13	33	28.1					i	13	30	40.2				
	I Regional to Distant																							
20	iP	13	42	02.9													iP	13	43	10.7				
	iS		43	43.8													iS			59.0				
	I Regional																							
21	eP	11	11	25					e	11	11	22.5					iP	11	11	27.7				
	iP			32.5					i			36.6					e		13	56.1				
	I Distant. C. & G. S. Epicenter 21.5° S lat. 169.8° E long. New Hebrides Islands																							
23																	i	01	52	30.7				
	I Regional																iS		53	43.2				
23	e	02	18	03.4					e	02	18	09					iP	02	18	13.1				
	iP			52.0					iP			54.6					iP			55.2				
	I Distant																							
23	iP	16	52	54.2					e	16	53	37.7					i	16	52	57.4				
	I Distant																							
23	i	21	29	25.5													iP	21	29	29.9				
	i			53.3													iP			33.3				
	i		30	01.8													iP			38.7				
	i			07.9													iS		30	17.9				
	I Regional																							
23	I Distant								e	22	47	10												
24	i	12	07	41.7													iP	12	07	29.1	0.15	+80	+40	
	i			47.2													iS			30.4		740		
	I			49.0																	6½ mi.			
	I Local																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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and Coast and Geodetic Survey

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Time used is G.C.T.

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24	iP	23	07	28.8				
	iP			29.1				-9
	iS			31.4		-17	+27	
	iS			31.8				-34
	1			32.4				-50
	I Local, 13 mi.							
25	1	00	51	05.0				
	iP			07.8				
	iP			13.7				
	iS			47.2				
	iS			50.7				
	I Regional							
25	iP	01	14	21.1	1.5	-7	+4	+30
	e		23	39.9	8.4			
	eL		27	10	14.0			
	II Distant							
25	iP	04	29	58.8	1.10			
	I Distant							
25	iP	08	15	03.1	1.5			
	I Distant							
25	e	14	30	32.8				
	iP			35.1				
	I Distant							
25	e	17	55	17.5				-8
	iP			21.7				-30
	I Distant, C. & G. S. epicenter 1°S, 25° Mid-Atlantic							
26	iP	14	10	41.1				
	ipP		11	12.0				
	I Distant							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
17	00	51	31.2				
iS		52	10.3				
iP	01	14	22.2				
iP	04	30	00.0	1.54			
iP	08	15	02.4	1.3			
17	14	30	38				
iP	17	55	16.2				
iP	W		20.4				
iP	14	10	42.4				
ipP		11	14.0				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	00	51	12.3				
iS		52	04.7				
iS			07.1				
iP	01	14	17.2	1.76			
e		10	11.1				
eL		16	30.9	14.7			
iP	04	29	37.0	1.28			
iP		30	02.1				
iP	08	15	06.7	1.33			
iP	14	30	36.1				
iP	17	55	44.2				
iP			48.4				
iP	14	10	39.4				
ipP		11	09.8				

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Time used is G.C.T.

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY		27	iP	03	31	48.7				
			i		32	10.5				
			I Distant							
		27	iP	12	24	21.1				
			I Distant							
		27								
		28	iP	00	53	01.8				
			iS			05.0				25
	23	28	iP	00	56	27.0	0.28	+18	+16	-58
			iS			30.0	0.35	-57	+90	+112
			e			22.6				
							15½ mi.			
			II Local. Epicenter 7 mi. NE of Boulder Dam. h = 8½ mi.							
		28								
		28	iP	04	20	09.7				
		28	iP	05	37	52.8				
			e		47	37.8				
		28	iP	05	52	24.4				
		28	iP	06	55	37.0				
			iP		56	03.7				
			i			30.0				
			iS			35.5				
			I Regional							

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON										
			I Local, 16 mi.							
			i	00	56	32.5				
			i			32.6				
			i			34.6				
			iS			39.2		-23	+40	
							34½ mi.			
			iP	04	20	13.2				
			iP	05	37	54.3				
			I Distant							
			iP	05	52	25.9				
			iP	06	56	10.4				
			iP			15.9				
			iS			57.3				
			iM		57	07.0				

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY			iP	03	31	45.2				
			i		32	07.4				
			iP	12	24	24.6				
			iP	15	35	37.6				
			iS		36	26.9	I Regional			
			i	00	53	07.5				
			iS			14.9				
			iP	00	56	32.8	0.13	-15	-6	-62
			iS			40.0	0.23	-60	+260	
			im			40.4		230		
							36½ mi.			
			iP	03	20	32.4				-90
			iS			34.0				+85
			I Local, 8 mi.							
			iP	04	20	13.0	I Distant			
			iP	05	37	49.1				
			iP	05	52	20.8	I Distant			
			iP	06	56	05.0				
			iP			14.2				
			iS			54.1				

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 1944

Time used is G.C.T.

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
28	iP	08	04	55.7	1.55	-15	+13	+80	iP	08	04	57.1	1.53				iP	08	04	52.2	1.50			
	e		11	33					i		10	51.5					i		12	21.7	4.30			
	i		14	41.4	2.45				iMZ		17	46.2	13.5			06	i		14	23.6	7.72			
	iMZ		17	51.0	15.15												iMZ		16	52.7	14.35			
	II Distant. QUS 14.6° N, 92.6° W off southern Mexico																							
26	iP	08	30	24.1	1.67	in coda		+23																
	I Distant																							
28	iP	09	10	02.5					iP	09	10	04.7					iP	09	09	59.7				
	i			49.1					i			51.1												
	i		12	29.1																				
	I Distant																							
28	iP	10	01	22.2	1.45	-4	+4	+23	iP	10	01	23.5					e	10	01	09.3				
	i			30.2													iP			18.5				
	I Distant																							
28	iP	10	20	31.2					iP	10	20	40.0					iP	10	20	36.8				
	iP			37.3					iP			49.5					iP			47.4				
	iS		21	10.5					iS		21	32.0					iS		21	27.2				
	I Regional																							
28	iP	10	30	59.7					iP	10	31	01.0					iP	10	30	55.6				
	I Distant																							
28	iP	10	59	11.5					iP	10	59	22.3					iP	10	59	17.9				
	I Distant																							
29	iP	01	43	16.2					i?	01	43	22					iP	01	43	13.0				
	I Distant																							
29	iP	06	24	33.3					iP	06	24	45.1					iP	06	24	36.9				
	I Distant																							

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

MONTH OF June 194 4 10.

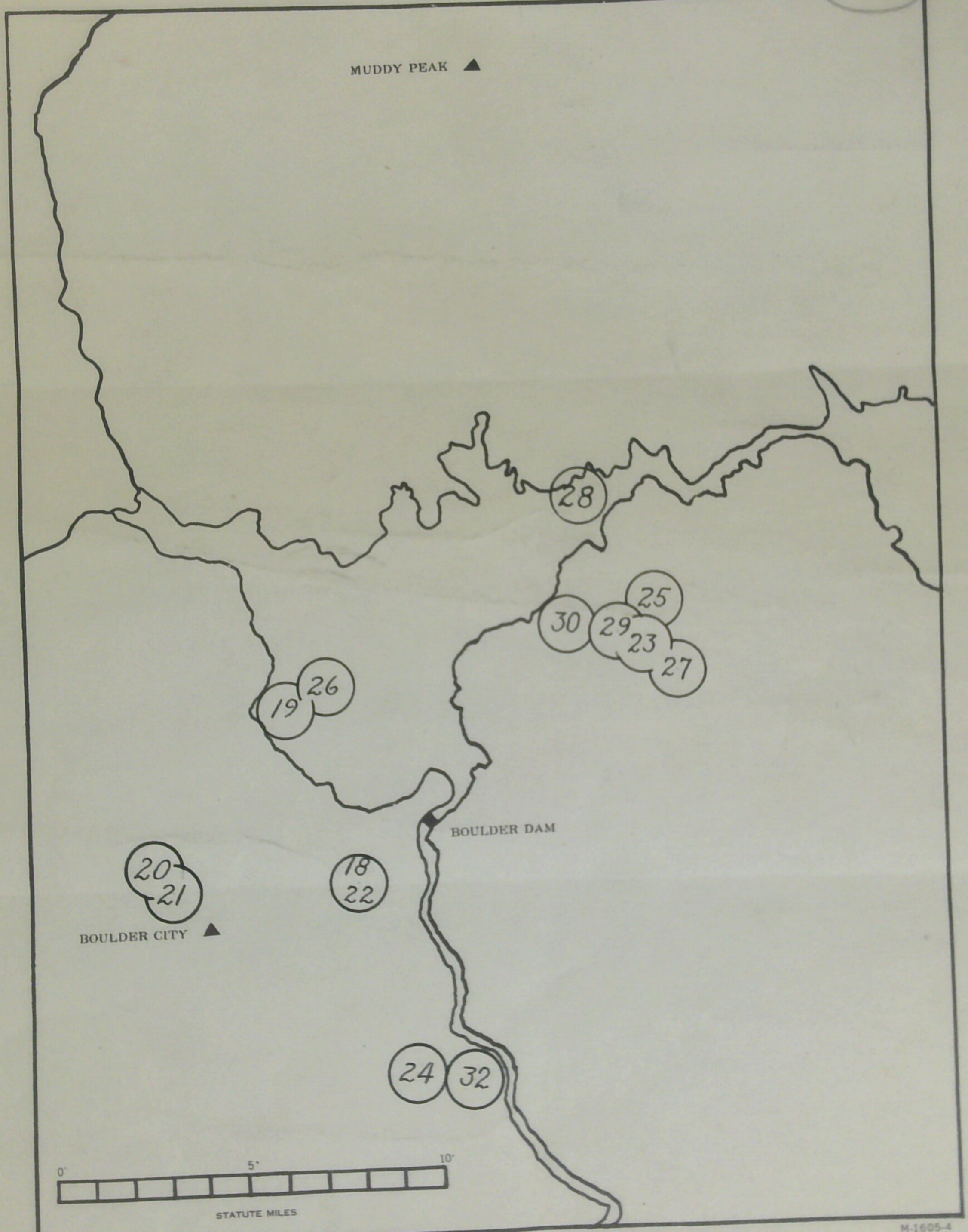
Time used is G.C.T.

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
29	iP	07	05	06.5	0.15	+8	-12	+40
	i			07.5	0.25	-215	+220	+200
	II Local, 6 mi. Felt in Boulder City							
29	iP	09	09	53.1	0.10		-6	+12
	i			54.1	0.22	-55	+48	+42
	I Local (similar to above) Felt in Boulder City							
29	i	10	24	47.9				
	I Distant							
29	e	11	39	38.0				
	i			43.7				
	I Distant							
29	iP	16	35	08.0				
	I Distant							
30	i?	00	06	08.5				
	i?			15.2				
	iP			22.8				
	iP			27.6				
	iS		07	01.7				
	iS			03.6				
	I Regional				187			
30	iP	03	05	24.6				
	iP			31.0				
	iS		06	02.3				
	iS			06.1				
	I Regional							
30								

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	i	09	05	17.4				
	iS			24.6		-6	-7	
	i			22.0				+8
					41 mi.?			
	iP	10	22	26.7				
	iS			37.1				
	i	11	39	42.4				
	iP	00	06	14.4				
	iP			18.5				
	iS			44.1				
	iS			48.1				
					143			
	iP	03	05	43.0				
	iS		06	25.5				

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	iP	09	09	17.2				
	iS			25.9		+11	-10	
	i			26.5			-18	
	i			27.1	43 mi.			
	iP	10	22	20.1				
	iS		24	44.3				
	iP	11	39	37.7				
	i			42.2				
	i	00	06	12.5				
	iP			14.2				
	iS			44.7				
	iS			46.1				
					155			
	iP	03	05	42.2				
	iP			44.8				
	iS		06	20.3				
	iS			22.8				
	iP	11	02	21.1				+25
	i			22.4				+32
	i			25.5		380	240	
	II Local, double? 87 mi.							

International Seismological Centre



TENTATIVE EPICENTERS IN THE LAKE MEAD REGION

May, June, July
1944

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Instrumental Report - - - - - - - - - - - July 1944

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

Eight epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
25	6	08h 17m 28s	Eight miles NE of Boulder Dam
26	12	08h 38m 06s	Five miles NW of Boulder Dam
27	20	03h 18m 03s	Seven miles NE of Boulder Dam
28	21	18h 09m 56s	Nine miles NE of Boulder Dam
29	21	18h 15m 57s	Seven miles NE of Boulder Dam
30	27	08h 54m 22s	Six miles NE of Boulder Dam
31	28	23h 24m 14s	Ten miles SE of Virgin Peak
32	31	09h 07m 09s	Seven miles S of Boulder Dam

The following shocks were reported felt in the 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
	14	04h 21m	II Felt by one in Boulder City
	16	20h 46m	II Felt by one in Boulder City

A very small record was obtained of the blast at Port Chicago, California at 5h 20m 44s July 18. A later phase was found at 5h 21m 31s, not otherwise mentioned in the report. (See Shasta report.)

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF JULY 1944

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	10	54	38.8					e	10	54	47.9						time poor						
	iP			46.3					iP			57.6												
	iS		55	17.9					iS		54	39.0												
		I Regional							iS			42.1												
1									iP	18	11	16.3	0.24	-10	-10	-25		record stopped						
									iS			18.3	0.26	-76	-133	+40								
		I Local									10 mi.													
2	iP	09	12	50.7					e	09	12	51												
		I Distant																						
2	iP	11	08	03.0					iP	11	08	00.0						record stopped						
	iP			04.7					i			01.4		-12	+5									
	iS			09.3					i			06.4												
	iS			11.0					iS			07.6		+20										
									i			08.1												
		I Local		32 mi.									39 mi.											
2	iP	22	18	23.9													iP	22	18	20.4				
		I Distant																						
3	no record								iP	05	39	41.8					iP	05	39	14.7				
									iP			48.6					iP			23.8				
									i			51.1												
4	iP	23	32	19.0	0.23	+10	-17	+60																
	iS			19.8	0.29	-90	-145																	
		I Local		4 mi.																				
5	iP	09	52	42.0				+12									iP	09	52	38.5				
		I Distant																						

International Seismological Centre

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

MONTH OF JULY 1944

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
5	i	14	59	21.7					i	14	59	17.8					iP	14	59	14.8	0.13			-17
	iS			33.8				12	i			20.5					iS			18.1	0.22			-64
					50 mi.				iS	14	59	24.3						17 mi.						
													30 mi.											
	I Local epicenter 12 mi. NNW of Pierce Ferry.																							
										Boulder Dam														
5	iP	15	57	44.5		-43	+27	+200	iS	15	57	45.9	2.5 mi.				iP	15	58	55.0				+5
	iS			45.7		+360	-570										iP			56.2				-7
	0			42.8									6.5 mi.				iS		59	03.5				-13
																	iS			04.6				+45
	II Local 6 mi. epicenter 6 mi. S of Boulder Dam.																							
5	iP	16	02	09.9		-13	+9	+53	no															
	iS			11.1		+63	+85																	
	I Local 6 mi.																							
										Overton														
25 6	iP	08	17	32.3	0.17	+6	+5	+25	iP	08	17	37.4				+4	iP	08	17	38.0				-9
	iS			35.3	0.37	-13	+27	+33	i			38.3					iSE			45.1		-20		
									iS			43.2				+17	iS			45.6		+42		-70
									iS			44.4		+7	-12	-15								
	I Local (transitional type) epicenter 8 miles NE of Boulder Dam																							
7	iP	06.	32	19.9													iP	06	32	15.9				
	I Distant																							
7	iP	10	05	36.0					i	10	05	25.0					0	10	05	10				
	i			38.7					iP			26.1					iP	10		34.3				
	i			49.1					i			28.1					iP			35.4				
	i			50.7				+10	iS			34.8		+8		+18	iS			50.7		-50		
	iS			52.0				-22	i			35.4		-72	-28	+60	iS			51.6				-20
					87 mi.								51 mi.				i			53.7				+36
																					84 mi.			
	I Local to Regional epicenter E side of Meadow Valley Mt. range.																							
7	i	12	39	58.2				+10	iS	12	41	10.0					iP	12	40	17.1				
	iS		40	49.2													iS			05.7				-33

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8													iP	09 00 41.0				
		I Distant																
9	iP	01 55 40.7					i	01 55 39.2					i	01 55 41.1				
	iP	43.8					iP	44.5					iP	53.3				
	i	56 22.5					iS	56 30.5					iS	56 43.7				
	iS	26.0					iS	33.4					iS	46.7				
		I Regional																
9	iP	02 26 54.9	0.17	+4	-8	+23							iP	02 27 05.8				
	iS	55.7	0.30	+16	-28	+80	i	02 27 04.1					iS	14.9				
	iM	56.4	0.22	+165	+75								i	15.5				
		II Local 4 mi. - 7.5 mi. epicenter probably N of Boulder City																
9							i	04 23 45.9					i	04 23 46.2				
		I Regional					iS	24 11.2										
9	iP	04 35 17.0					i	04 35 04.0					iP	04 35 05.5				
							iP	07.7					iP	07.8				
							i	46.8					i	39.9				
		I Regional					iS	48.8					iS	44.7				
													iS	50.9				
9	iP	20 22 53.1				-8	i	20 23 09.3					iP	20 23 00.7				+8
	i	56.5					iS	10.7					iS	08.1		-15		+15
	iSEZ	56.9		-14	+5	-16	0	22 48.2										
	iSN	57.4			+24									41 mi.				
	iM	58.7		+24		+40		44 mi.										
		I Local 17½ mi. probable epicenter 5 to 10 mi. SSE of Boulder Dam																
10	iP	12 42 53.6	0.83			-15	e	12 42 53.					iP	12 42 56.2				
	i	43 22.3											i	43 23.9				
		I Distant																
10	iP	13 36 33.7	1.22	-7	-3	-26	iP	13 36 38.3					iP	13 36 37.6				
	i	17.9	3.12										i	37 22.1				
		II Distant																

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10	iP	16	00	38.3					iP	16	00	41.4					iP	16	00	41.3				
	I Distant																							
10	iP	22	20	00.3					iPZ	22	19	51.0					iP	22	19	51.8				+32
	iP			00.7		-4	-4	-12	iP			51.5		+10	+3		iP			53.0				
	iS			19.6					iSN		20	03.0	0.33		-26		iS		20	04.6		-85	-270	
	iS			20.1		+25	-12	-35	iSE			03.2		+80			0		19	33.0				
					97 mi.				iSN			03.6	0.45		-205						65½ mi.			
										62½ mi.														
	II Local to Regional epicenter near Wolf Hole, Aria. 36.8° No. lat. 113.6° W. Long.																							
11	iP	01	51	12.6	0.25	+11	+19	-72																
	iS			13.7	0.20	+40	-85	-77																
	I Local				5½ mi.																			
11	iP	18	09	29.1	0.12	+40	+55	-250	i	18	09	32.5					i	18	09	38.6				
	iS			30.6	0.12	-85	-125		i			38.8					iP			39.1				
	0			26.8	8 mi.				i			44.5	37 mi.				i			46.9				
																	iS			48.0				
										Boulder Dam							i			48.3	42. mi.			
									i	18	09	28.6	6 mi.											
									iS			29.7	1.8 mi.											
	II Local, probable epicenter 4 Mi. N to NW of Boulder Dam, probably near epicenter 26.																							
11	e	18	45	29.7													iP	18	45	31.9				
	I Distant																							
11	iP	19	43	19.8													iP	19	43	23.0				
	I Distant																i		44	54.0				
11	iP	21	32	52.7					iP	21	32	53.9					iP	21	33	00.7	115 mi.			
	iP			54.0					i		33	10.1					iP			02.4	120 mi.			
	iS		33	08.7					iS			12.1					iS			23.7				
	iS			11.7					0		32	27.6					iS			25.5				
					87 mi.								Ave. 91½ mi.											
	II Regional, epicenter near 36.7° N. Lat. 115.9° W. Long.																							

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	12	e	07	20	30													iP	07	21	16.8				
			I Distant																						
	12	iP	07	52	35.1													iP	07	52	37.7				
			I Distant																						
	12	e	08	24	55.0													iP	08	24	51.1				
			I Distant																						
26	12	iP	08	38	07.7	0.15		+75	+125	iP	08	38	16.1				+20	iP	08	38	17.7		+5		-9
		iS			09.2			-300	+460	iPEN			16.4		+5	+7		i			25.6				
		Q			05.5					i			23.5				+25	iS			26.6		+130		
						7½ mi.				iSEN			24.0		+15	-15		iS			27.0				+80
			II Local											38 mi.								44 mi.			
			Epicenter 5 mi NW of Boulder Dam.								Boulder Dam														
										iP	08	38	07.3		6 mi.										
										iS			08.5		2.5 mi.										
12		e	19	32	28.3					e	19	32	21.6					iP	19	32	29.1				
		iP			29.9			+6	-7	iP			22.7					iP			33.3				
		i			30.8	1.00		-10	+24	iP			25.2					i			57.7				-85
		i			39.7	0.73		-12	+38	iP			36.5					i		33	01.7				+17
		i		33	02.0	1.06		-20	+40	i			55.5					iS		34	40.4				
		iS		34	40.3	1.23			-105	i		33	00.8					iS			46.6				
		iS			48.4	1.42			-120	iS		34	32.0					i			51.9				
		iSZ			59.9	2.60		-100	+430									iS			52.7				790
		iSN		35	00.8	1.87		+220																	
											Boulder Dam														
										iS	19	34	01.	4.3	+6 mm.										
			II Regional, Felt in Idaho. C & G.S. provisional epicenter 44.7° N. Lat. 114.4° W. Long.																						
12																		iP	23	54	06.4				
																		iS			08.5				7
																			Local 11 miles						

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13	iP	00	27	26.0													iP	00	27	29.2				
		I Distant																						
13																	iP	10	57	44.7				
																	iP			46.5				
																		I Distant						
13																	i	14	52	28.2				
																	iS			52.9				
																		I Regional						
13																	iP	19	56	15.5				
																	i	20	04	04.				
13	iP	21	49	15.9		+3	+10	-38																
	iS			17.3		-13	-11																	
	iSZ			17.5			+24	+55																
		I Local			7 mi.																			
14	iP	01	03	21.1		+26	+28	-128																
	iS			22.6		-80	-39	+215																
	iM			22.8			130																	
		I Local			7½ mi.																			
14	iP	04	21	25.3		-9	-5	+37																
	iS			27.5		+100	-35	+40																
		I Local			6 mi.	Felt by one in Boulder City																		
14	iP	07	04	11.5		-13	+7	+60																
	iS			12.6		+29	+22	-26																
		I Local			5½ mi.																			
15	i	11	27	36.7													iP	11	27	45.8				
	i			46.1													iP			58.8				
	iS			39.4													iS		28	49.1				
		I Regional																						

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16	iP	00 43 45.9	0.13	+8 +12 -50					i	00 43 26.8		
	iS	47.4	0.21	-53 -33 +120					iS	00 43 40.1		14
	I Local 7½ mi.											
16	iP	10 30 40.2			ip	10 30 14.4			iP	10 30 44.2		
	iP	32 24.6							i	32 27.5		
									eS	40 18.5		
	II Distant											
16	iP	20 45 50.9		+9 -30 +130	iS	20 46 09.6			iS	20 46 11.3		
	iS	52.0		-60 +340								
	II Local, 5½ mi. felt by one in Boulder City											
17	iP	02 44 37.6			iP	02 44 30.7			0	02 44 12.5		
	iP	38.9			iP	31.6			iP	39.7		
	iS	54.6		-10 +8	i	33.1			i	40.5		
	iS	56.5		-10 +12 +18	iS	43.0		-86 -60	iS	57.6		
			87½ mi.		i	45.1	63½ mi.		iS	59.0	95½ mi.	
	II Local to regional shocks epicenter to NW of Overton											
18	e	03 50 05							e	03 50 02.6		
									i	52 11.4		
	I Distant											
18	e	05 20 44							e	05 20 52		
	I Distant											
18	iS	14 30 12.3							i	14 29 58.4		
									iP	30 02.5		
									iS	31 04.0		
	I Regional									375 miles		

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19					e	01 09 44.8						
19					i	04 13 42.1						
					iS	15 28.0						
						I Regional						
19	iP	10 33 29.6			e	10 33 35.3						
	i	38.5			iP	45.1						
						II Distant						
19	iP	18 05 27			iP	18 05 24.5						
		I Distant										
19	iP	19 00 19.3		+7 -8 +58					i	19 00 40.4		
	iS	20.5		+15 +16								
		I Local										
19	iP	21 59 02.9			e	21 59 14.5			iP	21 59 14.4		
	iS	40.0			iS	22 00 01.2			iS	54.7		
		I Regional										
20	e	02 45 23.7							iP	02 42 32.1		
									iS	45 26.0		
		I Distant										
27 20	iP	03 18 07.6		+7 +4 -18	0	03 18 03.0			iP	03 18 03.2		
	iS	10.7		+25 +11 -30	i	03 18 13.2			iS	20.2		
	iM	10.9		- 30 55	iS	20.0		35 mi.				35½ mi.
		I Local 15.8 mi. Epicenter 7 mi. NE of Boulder Dam										
20	iP	07 33 06.4							e	07 33 10.8		
	i	17.0							i	26.8		
		I Distant										

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20	iP	14 18 01.4							i	14 18 00.6		
	iS	47.7							i	14.0		
									iS	19 04.4		
		I Regional										
20	iP	20 19 30.0							i	20 19 35.6		
		I Distant										
21	iP	02 55 19.8	0.18	-30 -23 +73	i	02 55 30.1			i	02 55 31.3		
	iS	21.4		+160 -18 +73	iS	36.5			iSE	39.0		+37
					i	39.0			iSNZ	39.1		
			8 mi.				45 mi.				45 mi.	
		II Local										
21	iP	12 55 22.6		+4 +3 +37								
	iS	23.7		-102 +75 +70								
		I Local	5½ mi.									
21	iP	13 14 19.5		+7								
	iS	22.1		-17								
		I Local	12 mi.									
28 21	iP	18 10 01.8		+9 +7 -20	i	18 10 05.8			iP	18 10 08.0		
	iS	05.0		-25 +20 -53	i	18 12.2			iS	15.2		
					iS	14.0						
		I Local 16½ mi. epicenter at W. end of Boulder Canyon, 9 mi NE of Boulder Dam					31½ mi.				37½ mi.	
29 21	iP	18 16 01.2	0.20	+17 +11 -40	iP	18 16 06.3			iP	18 16 07.4		+6
	iS	04.3	0.13	-65 +55 -140	iS	13.4			iS	14.6		+24
	iM	04.8		200	iS	14.0						
							35 mi.				36½ mi.	
		II Local, 16 mi. epicenter 7 mi. NE of Boulder Dam										

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22	iP	19	00	51.0																				
	iS			53.0				20																
	I Local																							
21																	iP	19	04	08.7				
																	I Distant							
22	iP	02	03	43.3					1	02	03	34.3					iP	02	03	50.8				
	iP			50.9													iS		04	45.3				
	iS		04	29.7					iS		04	21.8												
	iS			37.1																				
	I Regional																							
22	iP	06	20	26.9													e	06	20	30.6				
	I Distant																							
22	iP	11	03	31.1					iP	11	03	36.0					iP	11	03	42.2				
	iP			33.5					iS		04	01.7					iP			44.7				
	iS			54.7					iS			04.7					iS		04	12.8				
	iS			57.2																				
	I Regional																							
2	iP	11	34	08.8			+1	+8	iPP	11	34	31.9					iP	11	34	03.7				
	iPP			29.0		+23	-18	-80									iPP			28.3				
	eS		42	00																				
	iS		42	58.7					e		43	07					e		42	52.1				
	II Distant																							
22	iS	16	52	49.8					iP	16	52	20.5					iP	16	52	23.8				
					91 mi.				i			29.5					iP			24.9				
									iS			30.4					i		52	36.0				
												50½ mi.					iS			36.3				
																					63 mi.			

Regional earthquake epicenter near 36.9° No., 113.7° W.

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22	i	23	18	58.9					iS	23	20	51.4					i	23	19	12.3				
	iS		20	51.5													i		21	03.5				
		I Regional															iS			08.7				
23	i	02	43	50.5					i	02	44	27.4					i	02	42	33.8				
		I Regional															e		44	22.6				
																	iS		44	36.0				
23	iP	12	46	09.6													e	12	46	49.6				
	iS	12		49.1													iS		47	31.8				
		I Regional																						
23	iP	16	24	57.0													i	16	25	29.3				
	iP		25	01.0																				
	i		26	01.0																				
		I Distant																						
24	iP	00	13	42.7		-6	-5	+18																
	iS			43.8		-58	+40	+29																
		I Local																						
24	iP	02	44	31.7		-5	+9	+26																
	iS			32.7		-170	+26	-90																
		II Local 16 mi.																						
24	e	07	43	30													e	07	44	03				
25																	i	01	11	26.0				
		I Regional																						
25	iP	05	49	22.7		+9	+3	-5																
	iS			25.8		-10	+13	-17																
		I Local 16 mi.																						

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25	iP	22	15	43.5		-13	-11	+54
	iS			44.5		+175	-50	+94
		I Local 5 mi.						
26	iP	09	12	32.7				
	iP			40.5				
	iS		13	09.0				
	iS			16.1				
		I Regional 180 mi.						
26	i	23	01	03.0				
	iP			17.4				
	iS			49.7				
		I Regional						
27	iP	00	11	46.7				
	iPP		12	04.9				
	iS		17	45.1				
		II Distant						
27	i	00	50	30.2				
	i			57.8				
	iS		51	03.9				
		I Distant						
27	i	01	15	18.4				
	iS		17	36.8				
		I Regional to Distant						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	09	12	41.9				
iP			43.9				
i			46.8				
i		13	28.8				
iS			32.7				
iS			39.3				
i	23	01	14.0				
iP			17.4				
iS		02	11.9				
iS			20.4				
e	00	11	43.6				
iP			49.9				
i		12	09.3				
iS		17	41.3				
iP	00	50	47.6				
iP			54.5				
iS		52	24.2				
iS			34.1				
i	01	15	40.6				
iS		17	24.2				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	09	12	40.1				
iP			46.6				
iS		13	25.5				
iS			30.4				
i	23	01	02.9				
iP			11.0				
iS		02	08.8				
iS			11.8				
iP	00	11	50.8				
iP			04.0				
iP			13.8				
i?			50.				
iP	00	50	43.9				
iP			53.6				
iS		52	41.4				
iS			47.2				
e	01	15	38.0				
iP			46.8				
i		17	30.6				
iS			37.0				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF JULY 1944

Time used is

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
30	27	iP	08	54	26.1		+20	+18	+12
		iS			28.7		-25	-33	
		O			22.3				
		I Local 13 mi. epicenter six miles NE of Boulder Dam							
	27	iP	16	55	04.5	0.15	-12	+11	+32
		iS			05.6	0.17	+29	-21	-14
		I Local 5½ mi.							
31	28	iP	23	24	31.6	0.27	+5	+8	+11
		iP			33.3				+13
		i			43.7			+5	-13
		iS			47.7	0.27	-65	+30	+50
		II Local, 62 mi. Epicenter 10 mi. SE of Virgin Peak 36.5° N - 114.0° W.							
	28	iP	23	25	03.5				
		i			08.2				
		iS			20.1				
		iS			23.8		-36	+27	+35
		61 mi.							
		I Second Local in coda of 31, same epicenter?							
	29	iP	23	35	55.6				
		I Distant							
	29	iP	23	51	09.5				
		I Distant							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									
	27	iP	08	54	32.0				
		iS			38.8		-42		
		34½ mi.							
		i	23	24	22.1		+10		
		iP			22.5		+20	-8	
		iP			22.7		+95	+58	
		iS			28.4		+125	+70	
		O			13.8				
		30 mi.							
	28	iP	23	24	58.5		+45	-60	
		iS		25	04.5				
		O		24	50.5				
		31½ mi.							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
	27	iP	08	54	33.0				
		i			38.7				
		i			39.9				
		iS			40.5				
		38 mi.							
		iP	23	24	24.2		+3		
		iP			25.5		+30		
		iS			30.7		+200		
		33½ mi.							
	28	i	23	25	00.1				
		i			01.0				
		iS			06.8		+115		
		34½ mi.							

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Time used is

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	30	BOULDER CITY	iP	04	33	40.4				
			iS			47.5				
			iS			49.1				
			0			05.0				
							87½ mi.			
			I Local to Regional epicenter probably near Littlefield, Ariz.							
32	31		iP	09	07	11.6	0.18	+10	-13	+34
			iS			13.1	0.21	+50	-53	-38
			0			09.4				
							7½ mi.			
			I Local 7 mi. S of Boulder Dam							
	31		iP	20	40	38.3				+8
			iS			42.6				
			iS			43.1		+10	+7	-12
							22 mi.			
			Blast at Sloan							

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		OVERTON	iP	04	33	19.5				
			iP			20.3				
			i			28.4				
			iS			29.6		+65		
			i			30.1				
							50½ mi			
			i	09	07	23.3		-3		
			i			28.3		-5		
			iS			31.6		+9		
							45½ mi.			
			i	20	40	55.4				
			iS			41 01.7				
			i			04.9				
			i			06.5				
							61½ mi.			

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		PIERCE FERRY	iP	04	33	23.5		-4		
			iP			24.1		+10		
			iS			36.0		+52		
			i			37.0				
							63½ mi.			
			iP	09	07	21.3		-3		
			i			28.8		+14		
			iS			29.7		+21		
							42 mi.			
			iP	20	40	52.9				
			iS			41 06.5				
			iS			08.2				
							69½ mi.			

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LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . AUGUST, 1944

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

Epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
33	2	08h 40m 16s	Three miles NW of Boulder Dam.
34	3	04h 07m 19s	About 50 miles NW of Boulder City.
35	3	06h 23m 43s	Seven miles N of Boulder City.
36	3	19h 30m 19s	In Weiser Valley, NW of Overton.

The following shocks were reported felt in the 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
35	3	06h 24m	III Felt by one in Boulder City.
	11	01h 50m	III Felt by several in Boulder City.
	12	23h 08m	II Felt by few in Boulder City.

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF AUGUST 194 4

Time used is

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY										
	1		iP	06	03	20.9	0.20	-7	-9	+10
						22.5	0.22	-30	+53	-85
			I Local, 8 mi.							
	1		iP	15	34	09.6				
			i		35	16.6				
			I Distant							
	2		iP	08	09	9.5				+17
			iS			11.1				-75
			I Local							
	33 2		iP	08	40	18.4	0.20	-5	-9	+33
			iS			20.0	0.22	-80	+100	-150
			0			16.0				
			I Local				8 mi.			
			Epicenter 3 mi. NW of Boulder Dam							
	2		iP	10	06	17.0	0.12	+18	-12	+105
			iS			18.2	0.17	+120	+45	-95
			II Local				6 mi.			
	2									
	2									
	34 3		iP	04	07	36.1				
			iP			38.1				
			iS			47.8				
			iS			48.8		+20	-12	
							60½ mi.			
			I Local to regional epicenter 50 mi. NW of Boulder City, Westside of Sheep Range. S end of Desert Range.							
			36.6° N. Lat.							
			115.4° W. Long.							

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON										
			iS	06	03	37.8				
			0	06	03	18.6	40 mi.			
			i	08	40	27.9				
			iS			35.0				
			i			36.6		-5		
							35 mi.			
			iP	10	06	35.4	0.22	-5		
							42 mi.			
			iP	04	07	35.8				
			iP			36.9				
			iS			47.5				
			i			48.9				
			0			18.6	60 mi.			

	No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY										
			i	06	03	33.1				
			iS			40.4				
							45½ mi.			
			e	08	40	26.8				
			i			29.3				
			i			30.5				
			i			36.8				
							(S-P) Δ =	43½ mi.		
			i	10	06	30.2				
			iS			38.9				
			e	12	35	30.2				
			e	14	39	29.0				
			iS		41					
			iP	04	07	44.9				
			iP			46.0				
			iS		08	02.1				
			i			03.3				
							(S-P) Δ =	88 mi.		

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

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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
35	3	iP	06	23	45.4	0.15	-10	+47	-140	iP	06	23	54.5					iP	06	23	56.6	(S-P)	Δ = 48 mi		
		iS			46.8	0.15	+90	-103		iS		24	02.1	39 mi	-7			iP			57.4				
		0			43.3	7 mi.												i		24	04.9		-10		
		II	Local, epicenter 7 mi. N of Boulder City. Felt in Boulder City.															iS			05.6				
36	3	i	19	30	31.5					iP	19	30	22.1		+8			i	19	20	31.5				
		iS			39.9		-4			iS			24.0		-155			iS			40.8		+7	45 mi.	
		i			40.9	43 mi.				0			19.2		10 mi.										
		II	Local, epicenter in Meiser Valley NW of Overton																						
	4	i	06	47	56.7					i	06	48	15.0					i	06	47	56.9		time?		
		iP			59.9					iP			17.2					iP			59.7				
		iP	48	48	04.0					iP			22.8					iS		48	48.8				
		iS			41.4					iS		49	00.9					iS			54.7				
		i			45.6					iS			03.3												
										i			11.9												
		I	Regional, San Jacinto fault																						
4		i	07	20	19.8		+3		-6	iS?	07	20	35.5		-5			i	07	20	28.0				
		iS			22.3	0.45	+13	+21		i			42.6		-8			iS			35.1				-8
		0			16.1	13 mi.								40½ mi.						(S-P)	Δ =	36½ mi.			
		I	Local, epicenter maybe 5 mi. SE of Boulder Dam.																						
4		iP	20	01	05.5					e	20	01	04.7												
		iPP			08.3																				
		I	Distant																						
4		iP	20	39	28.8					e	20	39	34.4												
		I	Distant																						
5		iP	01	06	41.7					i	01	06	45.2												
		I	Distant																						
5		iP	01	33	33.0					iP	01	33	36.5												
		I	Distant																						
5		i	13	13	36.6																				
		I	Distant																						

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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					i	15 07 22.0						
					i	23.4						
					is	24.5						
					is	26.2		+40				
					i	29.3						
					I	Local 5-10 mi.?						
6	iP	10 25 50.2	0.20	+6 +4 +20	i	10 25 59.3			i	10 25 58.7		
	is	52.7	0.40	+28 +88 -46	is	26 05.9		-15	is	26 06.0		+18
	0	46.5	12½ mi.		i	07.1	40½ mi.		i	07.4	37 to 40 mi.	
	II	Local, probable epicenter 3 mi. SE of Boulder Dam.										
6	iP	10 27 20.2	0.20	+8 -3 -15	i	10 27 29.3			i	10 27 28.9		
	is	22.7	0.42	-20 +48 +36	is	36.0		-11	is	35.1		+15
	0	16.5	12½ mi.		i	37.1	40½ mi.		i	37.5	38½ mi.	
	I	Local, epicenter probably 5 mi. SE of Boulder Dam.										
7	iP	01 20 27.4			iP	01 20 36.6			iP	01 20 28.9		
	iP	38.3							iP	45.8		
	is	21 45.1			is	21 52.4			is	21 33.7		
	is	51.4		35 25	is	22 01.6			is	58.3		
	I	Regional near? 40°N 120°W										
7	iP	03 36 05.6			iP	03 36 50.2			iP	03 36 5.8		
	I	Distant										
7	iP	12 54 00.2		I Distant	i	12 53 59.2			iP	12 53 50.9		
	i	57 44.0			i	54 03.9						
7	iP	13 47 13.3			iP	13 47 19.7			iP	13 47 14.5		
	I	Distant										
7	iP	18 52 44.3	1.4	-5 +5 +18	iP	18 52 59.1			iP	18 52 42.7	30.7	
	e	19 00 25.9			is	19 00 58.1			es?	00 22.8	10.8	
	is	01 13.0	5.1									
	II	Distant										

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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**						
9	iP	14	01	46.2					i	14	01	53.8					i	14	01	57.9		time?		
	iP			49.5					iP			57.8					iP		02	02.8				
	iP			50.7					iP			58.8					iP			03.8				
									i		02	04.2					iP		02	07.2				
	iS		02	16.0					iS			28.5					iS			42.4		+135		
	iS			21.0		+70	+65		iS			32.6												
	iS			24.1				-150	iS			39.1		-140										
	II Regional																							
10	iP	01	57	13.1		+5	-9	+20	eP	01	57	14.0					iP	01	57	17.4		+15	+25	-4
	iP			16.9		-25	+28	-90	iP			20.8					iP			21.4		-110	-270	-20
	eS	02		53.9					eS	02		13.0					eS	02	01	11				
	II Distant				Off British Columbia																			
10	iP	11	36	58.5		+8	-4	-34	iP	11	37	00.6					iP	11	36	55.8		+11	+15	-6
	i		37	09.4													eS		45	31.				
	II Distant																iS			43.5				
10	iP	21	35	12.0	0.10	-48	-50	+95	i	21	35	26.4					iP	21	35	23.9		time doubtful		
	iS			13.0	0.20		-195		i			34.1												
	0			10.5	5 mi.							37.9					i			32.0		+5	-10	
																	iS			32.5		+12	-30	
	II Local, epicenter probably between Boulder City & Boulder Dam																(S-P) Δ = 44 ½ mi.							
10	iP	23	29	55.2	Regional				i	23	30	11.0					iP	23	30	08.8				
	iP			58.0	Local												iS			31.8		-15		
	iS			58.9	Disturbance			33	iS			37.0					iS		30	32.3			-43	
	iS		30	16.4	Regional			10																
	I Regional																							
11	0	01	49	40.6					i	01	49	56.8												
	iP			42.1	0.11	-57	-55		i		50	00.1					iP	01	49	54.1				
	iS			43.1	0.19	-490	-220		i			04.8					i		50	02.2			+10	
	II Local				5 mi.	Felt in Boulder City																		
11	iP	08	03	48.4	0.77	+7	-7	+32	iP	08	03	47.5				+24	iP	08	03	51.5		+4	+8	+9

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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	03 47 59.5	0.14	+6	+7	-23	i	03 48 02.4					iP	03 48 05.0		time?		
	iS	48 03.2	0.20	+10	-30	+23	i	08.5					i	10.4				
	0	54.0					iS	09.3					iS	11.5			+125	
	I	Local 19 mi. Epicenter probably in Boulder Canyon 30 mi.													33 mi.			
12	iP	04 31 43.2					i	04 31 43.0					iP	04 31 44.7		time?		
	iS	32 13.3					iP	52.0					iS	32 24.5	26.2			
							iS	32 25.9										
	I	Regional					i	29.7										
12	i	08 26 02.1					iP	08 26 07.5					iP	08 26 02.4				
	iP	05.5					iP	13.9					iP	08.9				
	iP	06.7					iP	16.2					i	46.2				
	iS	37.0		+85			i	53.1					iS	48.8		-265		
	II	Regional, Southern Owens Valley																
12	i	18 51 24.3					iP	18 51 18.9					iP	18 51 07.7				
	iP	29.1					iP	20.0					iP	11.4				
	iS	05.4				120	iS	46.3		-35			iS	38.5		+125		
	I	Regional					iS	48.4		-150								
12	i	21 22 02.0					iP	21 22 12.3					i	21 22 06.9				
	iP	04.7					iP	17.4					iP	07.2				
	iS	36.3					iS	48.8					iS	15.2				
	iS	39.2				60	iS	52.1		-30			iS	17.2				
	I	Owen Valley aftershock											iS	17.8		-90		
12	iP	23 07 54.2		-7	-8	-29							iS	23 08 04.6				
	iS	55.2		+130	+13	-90												
	II	Local 5 mi. Felt in Boulder City.																
12	iP	23 59 41.6	0.14	+12	-52	+330	i	23 59 59.9					i	23 59 43.3		time?		
	iS	42.7		-400	+47		i	08.7					i	53.0		11		
	II	Local 5½ mi.																
13	iP	13 37.2		-17	-13	+62							i	13 38.8		time?		
	iS	38.2		+470	+27	-195							iS	47.9		15		
	II	Local 5 mi.																

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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
13	e	06 28 38.8					e	06 28 47.4					e	06 28 40.1	.			
	iP	42.0					iP	52.9					iP	45.5				
							iP	54.7					iS	52.5				
	iS	29 13.6		+55	+55	-70	iS	29 26.2					iS	54.3				
	I Regional, Owens Valley						iS	27.5										
13	e	08 25 45.6					e	18 25 34.7					i	18 25 31.2				
	e	26 44.3					e	26 40.0					e	26 33.5				
	I Distant												i	37.4				
14													iP	41 11.6		+14	+12	
													iS	12.6				350
													I Local, 5 mi.					
14	iP	11 14 04.6		+7	-12	+30	iP	11 14 02.9					iP	11 57.8				
	iP	26.1		+25	+20	+140	iP	14.3					iP	13 20.5				
	I Distant		Aleutian Islands?															
15	iP	12 38.0		-7		-15							iP	12 31.3		time?		
	iP	01 06.3											e	10 52				
	I Distant																	
15							iP	20 23 40.0										
							iS	41.8				+90						
							I Local, 9 mi.											
15	iP	21 46 33.8											iP	21 46 25.4		time?		
	iS	47 25.2				24							iS	47 23.8				
	I Regional																	
16	iP	10 18 58.6		+6	+8	-28												
	iS	59.4		-47	+95													
	I Local																	
16													e	20 45 25.2		time?		

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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
17	eP	02	53	27.1					iP	02	53	39.1					iS			41.8				
	iP			27.7					iP			39.6					i	02	53	33.2				
	i		54	01.1					iS		54	25.0					iP			59.3				
	iS			07.0					iS			28.9					iS		54	21.2				
	I Regional, N of San Bernardino Mts.																							
17	iP	03	42	59.5					i	03	43	05.4					iP	03	43	00.7				
	iS?		44	07.9					iS		45	01.5					iS		44	54.9				
	I Regional?																							
18	iP	10	45	08.3		-13	+12	-22	iP	10	45	08.0					iP	10	45	11.8	1.8	+16	-33	
	i			43.																				
	e		54	06.3													iS		54	59.4	3.8			
	iS			55.																				
	i		55	53.	I Distant																			
19	iP	19	33	46.0		+3	-3	-12	iP	19	33	47.9					iP	19	33	43.0				
	I Distant																							
20	e	11	34	05.6					i	11	34	16.5					i	11	34	07.3			time?	
	iP			12.6					iP			23.8					iP			23.3				
	iS			49.4					i		35	05.6					i			37.3				
	iS			55.7					iS			15.9					iS		35	02.5				
	I Regiona. San Jacinto fault																iS			06.1				
20									i	18	46	32.0					iP	18	46	42.5				
									iP			43.5					I Distant							
20									i	21	48	00.4					iP	21	47	03.5				
																	I Distant							
21	iP	02	50	03.3					i	02	50	33.9					iP	02	50	34.2				
	i		51	00.2					iP		51	03.1					i			57.2				
	I Distant																							
21									i	11	06	34.7					iP	11	06	03.4		+8		
									iP			39.5					iP			09.7				
																	I Distant							

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
21									i	11	56	10.7					i	11	56	58.1				
									is		57	49.7					is		57	45.1				
																	I Regional							
22	i	0	38	07.8					iP	0	38	19.3					e	0	38	14.5				
	I Regional, N of San Bernardino Mts.								is		39	09.1					iP			19.3				
																	is		39	01.6				
																	I Regional							
22									e	01	45	45.3												
									seismic waves															
22	iP	02	11	30.3					i	02	11	46.7					i	02	11	38.0				
	i			30.5													is			44.2				
	i			31.7																				
	i			32.5		-23	+44																	
	I Local																							
22	iP	04	57	08.6					iP	04	57	09.4					i	04	57	18.4				
	iP			10.4					is			29.1					is			43.1				
	is			26.6													is			44.7				
	is			27.7																				
	I Regional																							
22	i	08	27	40.0					i	08	27	48.5					i	08	27	47.5				
									iP		28	17.2					i			54.0				
	I Regional																is		28	31.7				
22	i	09	50	44.4					i	09	49	52.6					i	09	49	43.0				
	I Regional, San Gorgonis Pass								is			22.8					is		50	29.7				
22	i	18	23	10.1																				
	iP			19.8																				
	is			50.1																				
	I Regional. San Gorgonis Pass																							
22																	i	19	31		13.7			

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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	
23	i	15	57	08.9																						
	i			26.7																						
23									i	19	07	01.0														
									is			04.0					75									
									I Local, 16 mi.																	
24	iP		05	36.5		+5	-5	+20	i		05	38.						iP		05	33.4					
	i		06	04.0														iP			59.6					
	II Distant																									
24	i	04	32	45.6					i	04	34	16.3						i	04	32	35.2					
	is		33	35.7					is			28.5						iP			42.8					
	I Regional																	is		33	36.6					
																		iS			49.6					
24	e	16	09	09														iP	16	08	34.3					
	seismic waves. I Distant?																									
24	iP	23	43	38.5		-14	+15	+7	iP	23	43	39.6						eP	23	43	34.2					time?
	i		44						i			49.						iP			34.8					
	i		53	10.0														i			53.6					
	II Distant																	i		53	58.8					
																		i		54	06.8					
																		i		55	17.7					
25																		iP	03	14	37.3		-50	+23	-260	
																		is			38.5		+455	-645		
																		II Local, 6 mi.								
25																		e	07	29	36.4					
																		is?		30	18.3					
																		is			22.7					
																		I Regional								
25	iP	07	31	05.6		+10	+7	-5	iP	07	31	15.5				-20		iP	07	31	13.4		+8	+8	-13	
	iP			09.9					iP			23.8						iP			16.1					
	i			40.4					i		32							iP			21.9					
	is			44.3		-55	+27		is			07.2				-100		i			48.5					
	i			48.9		140	90											is		32	01.0		-125	-175		
	II Regional, San Gorgonio Pass																									

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF AUGUST 194 4 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
25	iP	12	36	42.0						No Records								iP	12	36	45.1				-12
	i		37	36.3														iP		37	40.1				
			II Local, 6 mi.															I Distant							
25																		iP	13		20.8		-50	+22	
																		iS		25	22.0				
																		II Local, 6 mi.							
25	e	14	32	28.2														iP	14	33	01.5		-10	-5	+20
																		I Distant							
26	iP	13	49	54.5	0.25	+50	+28	-115										iP	13	51	06.0				
	iS			55.3	0.10	-110	+90											iS			14.8				
		II Local, 6 mi.																							
27	iP	14	28	17.2	0.28	-24	-13	+40		iP	14	28	15.3					iP	14	28	24.7		+7	-3	+3
	i			17.6						iS			16.3		7			iS			32.4		+60	+155	
	iS?			19.0	0.11	-92	-32																		
	iS			19.3	0.40	+27	+950																		
		II Local, probable epicenter 5 mi NE of Boulder Dam																							
													BOULDER DAM												
27	iP	16		52.4	0.30	+7	-16	-20										iPE?	16	05					
	iP		04	53.3						iP	16	04	50.7		-5 mm.			iPN			00.2				
	i			54.3						iS			51.7		+10 mm.			iSE			07.6				
	iS			54.7		-400				0			49.2	5 mi.				iSN			07.8	38½ mi.			
	im			55.2		690	1000	760																	
		II Local, 11½ mi. not located																							
27		I Regional																iP	16	25	28.6				time?
																		iP			31.4				
																		iP			40.2				
																		iS		26	34.9				
27																		iP	17	33	25.0				
																		iS		34	30.7				
																		I Regional							
27																		iP	17	43	33.				
																		iS		44	40.				
																		I Regional							
27	e	18	54	33														i	18	54	38.6				
		seismic waves																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

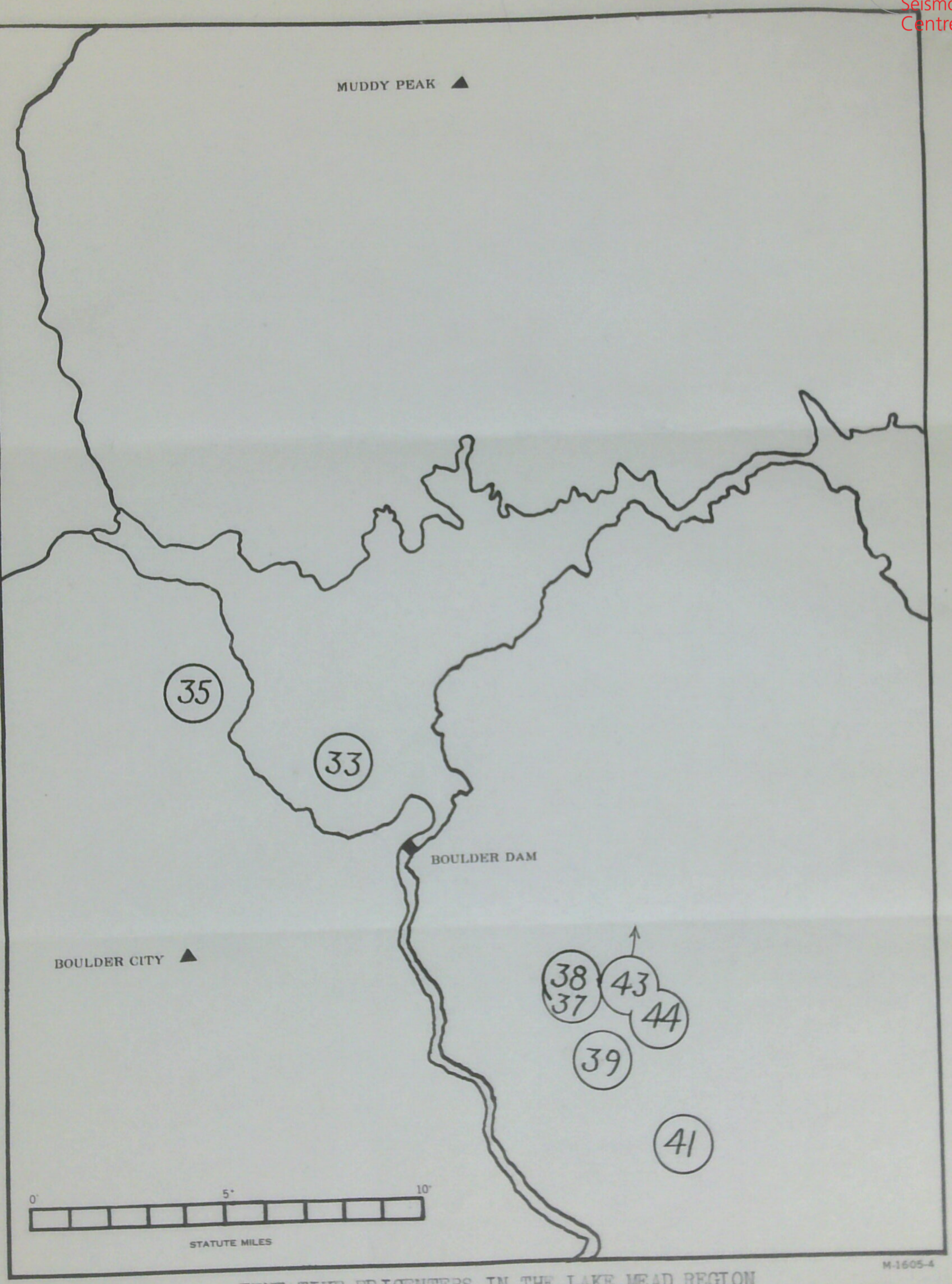
Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF AUGUST 1944

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
										BOULDER DAM														
28	iP	02	56	47.1	0.25	+24	-3	-50	iP	02	56	45.3		-2 mm.			iPNZ	02	56	54.6				
	i			48.5	0.22												iPE			55.2				
	iSN			49.2	0.33	-100	+370		iS			46.2		+4 mm.			iS		57	02.2		+45	+130	
	iSE			49.5	0.30	-200			0			44.0	4½ mi.				iSZ			02.6		38	mi.	
	im			50.1		610	390																	
	II Local, 10½ mi. probable epicenter 5 mi. SE of Boulder Dam.																							
29	iP	15	29	03.7	0.28	+120	+70	-355	iP	15	29	02.1		+3 mm.			iP				no time			
	i			05.2					iS			04.0		-12 mm.			iS			06.8		+375	+645	
	iS			06.8			-230						10 mi.								35 mi.			
	0		28	59.1	16 mi.																			
	II Local																							
										OVERTON														
29	iS	21	13	08.4	88 mi.				iS?	21	13	04.7					iP	21	12	41.1	53 mi.			
									iS?			11.0	81 mi.											
	I Local to regional, probable epicenter ESE of Pierce Ferry near Samup Plateau.																							
30	iP	01	27	09.0			+10		iP	01	27	12.1					iP	01	27	12.1				
	I Distant																							
30	iP	04	10	55.6					iP	04	10	56.9												
	ipP			33.2					ipP			33.9												
	I Distant																							

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TENTATIVE EPICENTERS IN THE LAKE MEAD REGION
August, September, 1944

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . .SEPTEMBER, 1944

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

Epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
37	4	11h 26m 30s	Five miles SE of Boulder Dam.
38	7	11h 36m 17s	Five miles SE of Boulder Dam.
39	7	11h 45m 41s	Seven miles SE of Boulder Dam.
40	9	20h 00m 43s	Three miles W of Overton, Nevada.
41	22	12h 10m 13s	Ten miles SE of Boulder Dam.
42	23	13h 38m 49s	At the south end of the Spring Mountains, near 35.7° N. Lat. 115.5° W.Long.
43	24	23h 35m 52s	Six and one half miles SE of Boulder Dam.
44	25	07h 43m 04s	Seven miles SE of Boulder Dam.
45	29	08h 42m 10s	Twenty miles NE of Pierce Ferry in Grand Wash.

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

No.	Date	G.C.T.	Intensity	Description
37	4	11h 26 m	III	Felt by several at Boulder City and Boulder Dam, rattling of windows and doors.
	7	18h 24m	III	Earth rumble of 2 seconds duration.
	14	11h 42m	II	Reported as mostly earthnoise.
43	24	23h 36m	III	Felt by several

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **September** 1944

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	11 33 54.4					iP	11 33 45.5					iP	11 33 43.6				
	iS	34 21.6					iS	34 05.1					iP	44.1				
			130 mi.				iM	11.6	125 mi.				iS	34 02.3				
	I	Regional											iS	05.0	90 mi.			
2	iP	1 06 15.9	0.27	-6	+7	-17												
	iS	17.2	0.32	+21	+23	+30												
	I	Local 7 mi.																
2	i	21 37 26.6											iP	21 37 28.7				
	i	38 08.1											iS	38 10.8				
	I	Regional, Little San Bernardino Mts. according to Seismological Laboratory Padadena																
3	iP	04 00.9					iP	04 12 53.3					iP	04 13 20.4				
	iS	13 28.2					iS	13 11.6					iS	38.9				
	I	Regional																
3	iP	11 21 30.9					iP	11 21 54.2					iP	11 21 41.6				
	i	47.9					iP	22 05.2					iP	58.5				
	iS	22 22.0					iS	43.1					iS	22 42.1				
	I	Regional, San Bernardino Mts.																
3	iP	19 24 40.5											iP	19 24 41.4				
													eL	55 15				
													II	Distant				
3							I	Regional?					i	19 42 03.0				
													iS	18.6				
													iP	21 38 11.6				
													I	Distant				
3	iP	22 12 42.8											iP	22 12 32.2				
	iS	13 10.8											iS	50.9				
													I	Regional				
3	iP	23 10 03.5											iP	23 10 01.3				
	i	40.2											i	29.2				
													I	Distant				

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MONTH OF **September** 1944

Time used is

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
	4	e	02	49	14.0				
		I Regional, NW of Santa Barbara, California							
	4	iP	07	27	17.2				
		I Distant							
37	4	iP	11	26	32.4	0.37	+26		-43
		iPN			32.5			-27	
		i			32.8			+40	-183
		iE			33.3				
		i			33.9		+210		
		iSE			34.4		-240		
		iSN			34.3			+1260	
		i			34.9	10½ mi.			
		III Local, Felt in Boulder City Felt at Boulder Dam							
4		iP	12	56	23.5				
		i			28.7				
		iS		57	02.1				
		iS			06.1	185 mi.			-95
		I Regional, San Jacinto fault.							
5		iP	01	19	17.6				
		I Distant							
5		i	04	45	09.0				
		i		47	56.3				
		iS		55	12.7				
		II Distant shock CGS 45°01'N; 74°44'W; O=4:38.8							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									
		iP	07	27	51.0				
		iP	11	26	42.0		-1	-6	+43
		iPE			42.1		+7		
		iPN			42.4				
		iPZ			43.5				
		iSN			50.0			+82	
		iSE			50.4		-80		
						42 mi.			
		Epicenter 5 mi. SE of Boulder Dam							
		iP	12	56	36.4				
		iP			30.5				
		i		57	21.0				
		iS			26.8	220 mi.			
		e	04	45	04.8				
		i			12.2				
		i		47	04.4				
		iS		55	03.6				
		iS			24.6				

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
		e	02	49	07.6				
		i			25.5				
		iP	07	27	20.5				
		iP	11	26	40.5	0.30	+4		+24
		iP			40.6			-3	
		i			44.5			+50	+85
		iS			48.2	0.20	+130		
		iS			48.3		+460		
		iS			48.6		+245		-168
		O			29.5	ave.	39 mi.		
		BOULDER DAM							
		iP	11	26	31.0		-6 mm.		
		iS			32.0		+17 mm.		
		iP	12	40	20.9				
		iP		56	34.2				
		iS		57	15.1				
		iS			21.4				
		iP	01	19	19.9				
		i	04	45	03.4				
		i		46	32.9				
		i		48	27.2				
		i		54	41.5				
		iS			50.6				

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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**				
6	iP	02 38 17.6	0.29	+12	+5	-42	iS	02 38 37.6					i	02 38 27.4				
	iS	19.0		-28	+90		0	15.6	46 mi.				iS	02 28 35.4	41 mi.			
	iM	19.3		115	115	150												
	II	Local, 7 mi.																
6	iP	03 39 37.6					e	03 38 37.6					i	03 38 40.7				
	I	Distant																
6	iP	05 55 41.9		+11	+20	-60							i	05 55 53.2				
	iS	43.1		+85	-41	-92							iS	56 01.4				
	I	Local, 6 mi.																
6	iP	06 05 24.3				+18	iP	06 05 26.3					iP	06 05 28.6				
	I	Distant																
38 7	iP	11 36 20.4		+2	-3	-8	i	11 36 30.5					i	11 36 28.7				
	iS	22.4	0.40	-42	+60	+42	iS	38.6		-9	-6		iS	36.1			+25	
							0	17.3	44 mi.									
	I	Local, 10½ mi. Epicenter 5 mi. SE of Boulder Dam																
39 7	iP	11 45 43.7		+7	-2	-15	i	11 45 53.7										
	iS	45.7	0.40	-39	+155		iP	54.6					iP	11 45 52.0				
							iS	46 01.7	0.31	-17	-12		iS	59.3			+50	
							0	45 40.6	43½ mi.									
	II	Local, 10½ mi. Epicenter 7 mi. SE of Boulder Dam																
								BOULDER DAM										
7							iP	11 45 42.3		-1 mm.								
							iS	43.4		-6 mm.			i	16 33 29				
													Local Disturbance					
7													iP	16 27 06.8				
													iS	28 10.3				
													I	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
7	iP	18 23 33.5	0.1	+82 -142 +					i?	18 23 46.8		
	iS	34.3		140 175 ?	iS	18 23 52.4		12	iS	54.9	47½ mi.	
							42 mi.					
					BOULDER DAM							
					iS	18 23 35.7		0.5 mm. 7½ mi.				
	II	Local, 5 mi., probable epicenter 3 mi. NNW of Boulder City										
		Felt in Boulder City										
8	i	01 33 23.6			iP	01 33 30.3			iP	01 33 29		
	I	Distant										
8									iP	17 05 17.0		
									iS	19.6		+55 +63
									I	Local, 13 mi.		
8									iP	18 08 22.4		
									iS	24.7		+75 +53
									I	Local, 12 mi.		
9	iP?	04 13 55.3			iP	04 13 50.1			iP	04 13 48.4		-9 +4
	iP	14 18.9			iP	14 13.0			iP	14 08.1		-25
	i	15 48.7			iS	15 35.0		+70	iP	11.5		-75 +60
	iS	52.3		-105					iSN	15 26.3		
									iS	27.6		+140
	I	Regional - Colorado							iS	29.3		-225
9	eP	17 41 30.4			iP	17 41 33.0			e?	17 41 33.5		
	iP	33.2							iP	38.3		
40 9	iP	20 00 55.6			iPE	20 00 46.1		-7 -3 -12	i?	20 00 54.4		
	iS?	01 04.3		10	iPN	46.3		-13 -28 -70	iP	54.9		
	iS	04.7			iSEN	48.3		+245 +220	iS	01 02.8	41 mi.	
	0	00 42.9	45½ mi.				11½ mi.		iS	04.4	25	25
	II	Local, probable epicenter 3 mi. west of Overton										

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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	e	10	00	06.7					e	10	00	20.2					e	10	00	14.0				
	i		04	04.8					i		04	06.8					i			14.4				
	i		15	02.5					i		15	02.8					i		14	59.2				
	I	Distant, Pasadena Δ=109°																						
11	iP	18	43	14.6					i?	18	43	54.0					e	17	56	08.5	seismic waves			
	iS			42.3													iP	18	3	28.6				
	I	Regional															iS			45.1				
12	iP	00	51	57.6		+3	0	-9									iS	00	52	12.0			35	
	iS		52	00.5		-10	+10	+7											39	mi.				
	I	Local, 15 mi.																						
12	iP	08	43	16.1													iP	08	43	27.5				
	iS			46.4													iS			58.0				
	I	Regional															iS		44	00.9				
12	i?	16	09	39.0					iP	16	09	05.2		?	-5									
									iP	1		05.8		+8										
									iS			08.6		+26	-31									
									iS			09.1		+35										
									iM			12.8		+70	-34									
									I	Local, 17 mi.?														
12	iP	17	55	17.9		+2	+4	-20	i	17	55	30.3					iP	17	55	26.4				
	iP			24.6					iP			38.6					iP			36.2				
	iS		56	05.4					iS		56	35.3					iS		56	24.4				
	I	Regional, near Riverside, California																						
12	iP	22	26	02.0	0.15			+12																
	iS			03.0	0.21	-46	+20	+22																
	I	Local 5 mi.																						
13									I	Regional							iP	20	52	10.3				
																	iS			51.7				

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LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF **September** 1944

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
14	i?	02 03 13.9											iP	02 03 26.0				
	iP	17.9											iP	34.8				
	iP	24.1											iS	04 26.3				
	iP	27.8																
	iS	04 13.4																
	iS	19.7																
	II	Regional - Northern Owens Valley																
14	e	06 58 14.7											e	06 58 12.5				
	i	07 01 46.6											i	07 01 48.9				
	I	Distant																
14	iP	11 41 44.3				-8							i	11 41 55.7				
	iP	44.5		-3	+4	+15												
	i	45.5				+54												
	iS	45.6		+30	+80								iS	42 02.9	42½ mi.			12
	I	Local 5½ to 6 mi.						Epicenter to NE of Boulder City. Felt in Boulder City										
15	iP	02 20 25.8		I	Distant													
16	iP	02 47 35.8											iP	02 47 39.6				
	I	Distant											i	50.3				
16	iP	04 47 43.9		-4	-3	-26							iP	04 47 47.6				-50
	II	Distant											i	48 52.3				
17	i?	09 28 05.5																
	iP	09 28 06.4											iP	09 27 09.1				
	I	Distant																
18	iP	13 24 38.8																
	iP	39.1																
	iS	40.1		+11	+45	+30												
	I	Local, 5 to 6½ mi.																

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	iP	13 16 05.3		+5	-4	+13							iP	13 16 18.2				
	I	Distant																
20													iP	09 13 31.0		-4	?	+20
	I	Local to Regional											iS	42.3		-11		16
20	iP	14 13 02.2											i	14 13 10.0				
	iP	09.5											iP	13.4				
	iS	40.5				45							iS?	56.7				160
	I	Regional 200 mi.? San Gorgonio Pass											iS	59.0				
20	iP	16 26 05.5		-14	+27	+100												
	iS	06.5		-150	+25	-98												
	II	Local 5 mi.																
20	iP	16 40 25.4					e	16 40 47.0					i	16 40 32.9				
	iP	33.8					iP	56.2					iP	34.4				
													i	47.5				
	iS	35.7					iS	41 36.0					iS	41 35.1				
	I	Regional, North of Santa Ana																
20							iP?	18 36 22.6					iP	18 36 35.8				
							iPN	28.2					iS	47.8				7
							iM	34.7		115	70							
	II	Local to regional, probable epicenter E of Mormon Mts.																
20	iP	18 37 26.7					e?	18 36 56.4					iP	18 37 29.3				
													I	Distant				
21	e	06 28 18.6					e	06 28 26					i	06 28 21.6				
													I	Distant				

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No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	21	BOULDER CITY	iP	17	20	50.3				
			e		22	06.8				
41	22		iP	12	10	17.7	0.13	-6	-2?	+15
			iS			20.6	0.19	+30	+20	
			iS			20.9				+27
			i			22.2	0.57	-27	+27	
			I	Local, 15 mi.			Epicenter 10 mi. SE of Boulder Dam			
	22									
	22		iP	19	04	05.1	0.23	+20	-20	+115
			iS			05.9	0.30	-118	-148	
			II	Local, 4 mi.						
	22		e	22	44	51.8				
			i		48	15.5				
	23		iP	00	24	08.1				
			I	Distant						
	23		iP	03	22	52.5		+5	+3	+35
			II	Distant						
	23		iP	04	23	15.0	0.13	-14	+7	+43
			iS			16.2	0.28	+65	+60	-32
			I	Local						
	23		i?	09	22	11.4				
			iP			13.3				
			iS			36.8				
			iS			41.1				
			I	Regional						

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		OVERTON								
	22		i?	12	10	28.5				
			iS			35.3		+3	+7	
			0	12	10	13.4	45½ mi.			
			i	22	44	51.5				
			i		48	15.4				
			iP	00	23	40.0				
			iP	03	22	56.0				
			i	09	23	02.5				
			iP			10.3				
			iS			27.0				
			iS			30.1				

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		PIERCE FERRY								
			iP	17	20	44.3				
			eS?		23	16.5				
			i	12	10	24.2		-4		-13
			iP			24.5				
			iS			31.7		+18	+20	+12
				38 mi.						
			iP	18	51					
			I	Seismic waves						
			i	22	44	52.5				
			i		45	10.1				
			I	Seismic waves						
			iP	00	24	04.6				
			I	Distant						
			iP	03	22	56.0				+65
			iS	04	23	34.0				
			i?	09	23	07.9				
			iP			11.4				
			iP			12.1				
			i			36.8				
			iS			41.9				
			iS			42.9				

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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
	23	iP	12	23	19.1		+6	+4	-22	iP	12	23	17.4					iP	12	23	20.9				+24
		i		30	08.8					i		30	08.2					i		30	11.3	Aftershock?			
		i		31	31.8					i		31	45.4					i		31	37.7				
		i		53	58.3	03.8												i		53	00.4		"	?	
		II Distant. CGS Provisional epicenter Kamchatka, 53.5°N.Lat. 160.7° E.Long.																							
	23	i	13	29	48.6					iP	13	29	48.1					iP	13	29	51.3				
																		I Distant							
	23	iP	13	32	03.2	0.25	+7	+1	+12	i	13	32	16.3					iP	13	32	15.9				
		i			11.0					i			21.0					iP			16.6				
		iS			11.9	0.30	+10	-6		iS?			35.5					iS			32.7				
				44½ mi.						0		31	50.6	89½ mi.				iS			34.0	87½ mi.			
		I Local to regional. Probable epicenter E side Ivanpah Valley Near 35.5°N.Lat. 115.3°W.Long.																							
42	23	iP	13	39	02.9	0.18	+8	-4	+27	i?	13	39	13.5					iP	13	39	15.1				
		iS			11.6	0.40	+8		+12	i?			22.6					iP			15.8				
		0		38	50.3	44 mi.				iS?			30.2	83 mi.				iS			32.2				
																		iS			33.5	87 mi.			
		I Local to regional, epicenter S. end of Spring Mts. near Devil Peak near 35.7°N.Lat. 115.5°W.Long.																							
	23									i	14	01	07.6					iP	14	01	05.7				
		I Distant																iS?		04	18.0				
	23	iP	16	14	10.3					iP	16	14	14.8					iP	16	14	12.9				
		I Distant																							
	23	I Distant																iP	17	41	21.5				
	23	i?	22	42	14.3					i	22	42	18.0												
		I Distant																							
	23									iP	23	27	27.5			-22		iP	22	42	16.5				
		I Local								iS			28.9			+60									

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LAKE MEAD SEISMOLOGICAL STATIONS

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and Coast and Geodetic Survey

MONTH OF **September** 194**4** **10.**

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
24		iP	03	30	27.0			+5	-6	i	03	30	44.0		41?	mi.		iP	03	30	34.6				
		iP			27.1													iS			42.6				-12
		iS			28.8		+15	+48														38	mi.		
		iS			29.2		+73	+43																	
		I	Local, 9 mi. Epicenter probably 4 mi. SE of Boulder Dam																						
24		iP	11	05	46.4		+5	-5	+24	I	Distant							iP	10	08	42.7				
		i		06	34.5					I	Regional							iP		17	42.4				
		I	Distant															iS		19	05.4				
										iP	11	05	46.2					iP	11	05	19.1				+52
24		iP	15	14	36.1					i	15	14	52.0					e?	15	14	07.3				
		iS		15	13.5					iS		15	32.2					iP			13.5				
		II	Regional, Agua Caliente fault?															iS		15	25.8				
43	24	iP	23	35	55.5	0.15	-370	+38	+	iP	23	36	03.3		-3	-7	+68	iP	23	36	02.3		-16	+7	-50
		iS			58.0					iP			03.5		+11			iP			02.6			+57	
		i			59.0		820	1420	1280	iP			04.5					iS			09.7		-160	+	
		0			51.8	13 mi.				iZ			10.3				+183	iM			10.2		960	770	
										iS			11.7		+130										
															40 mi.								37 mi.		
		III	Local, epicenter 6½ mi. ESE of Boulder Dam. Felt in Boulder City																						
44	25	iP	07	43	08.1		-8	?	+13	iS	07	42	24.7			+8		i	07	43	16.1				
		iS			10.6		+23	+37	-57	i			26.7			-11		iSE			22.5		+20	+12	+12
		0			04.3	13 mi.									42½ mi.								37½ mi.		
		I	Local, epicenter 7 mi. SE of Boulder Dam																						
	25	iP	16	25	43.1													iP	16	25	43.7				+10
																		iP			46.7				-11
																		iPP		26	04.0				
																		II	Distant						
	25																	iP	17	23	29.6				
																		I	Distant						

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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
25							i	21 05 40.1					iP	21 05 37.9				
							iS	59.3					iP	39.4				
	I	Regional					iS	06 00.6		+27			iS	58.2				-27
													iS	06 00.2				+65
25	I	Distant											iP	21 24 28.4				
													eS	31 33.9				
25	I	Distant											i	21 34 23.2				
26	iP	01 03 40.6					iP	01 03 49.4					iP	01 03 44.1				-23
	I	Distant																
26	iP	05 47 03.7	0.25	+14	+18	-54												
	iS	05.0	0.27	+60	-50	+105												
	I	Local, 7 mi. to NE																
26	i?	08 55 32.3					iP	08 55 33.2					eP	08 55 22.6				+8
	iP	36.3					iP	36.6					iP	24.5		+10	+10	-45
	iP	40.3					iS	56 05.7					iS	48.6		-117	-60	-25
	i	56 08.0					iS	09.0	165 mi.				iSN	49.6		+200	-340	145
	iS	09.2		21	15	+32									128 mi.			
			173 mi.															
	I	Regional, epicenter to east																
26	iP	17 51 01.4					iP	17 51 05.4					iP	17 51 04.0				
	I	Distant																
27	i	12 03 53.4											iP	12 03 56.0				
	I	Distant																
27	e?	16 39 11.3											e	16 38 36				
	eP	20.4											iP	47.3				
	e	42 07.4											e	43 00				
	I	Distant, Pasadena Δ = 106°																

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Time used is

No.	Date	BOULDER CITY Phase	h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	h	m	s	Period T	Trace Amplitude E	N	Z
	27	I Distant																e	17	06	39				
																		eS?		10	59				
	29																	iP	07	54	13				
																		I Distant, Gulf of California							
45	29	iP?	08	42	28.0					iP	08	42	20.4		time?		+15	iP	08	42	17.5				+6
		iP			29.6					iP			20.9					iP			17.8				-18
		iP			30.0					iS			27.4		-13	-25	-30	iS			22.6		-24	+65	-16
		iS			40.1			+10	-9	iM			27.9		+32			iM			23		-120	-73	+67
		i			41.7																				
		iS			43.8			-15						36 mi.								26 mi.			
		I Local, 62 mi. Epicenter in Grand Wash, 20 mi. NE of Pierce Ferry																							
29										iP	18	45	29.4		-8	time?									
										iS?			30.9		+28										
										i			32.1		-27	-25									
										I Local, 7½ mi.															
																		Pierce Ferry No Record							
																		BOULDER DAM							
30		iP	00	54	22.2		+160	-53	+	iP	00	54	26.6		-5	-5?	-33	iP	00	54	23.5				
		iS			30.9		+180	+135		iP			28.0		+30	-32	+160	iS			32.9		1.5 mm.		
		0			09.4	44½ mi.				iS			41.1		+120	+30	-155						48½ mi.		
		Ave.0			08.5					iS			43.0	74 mi.		Time?									
		II Local, probable epicenter in Spring Mts. 15 mi. West of Las Vegas, recorded by Seis. Lab. Stations.																							
30										iP	06	31	00.0		time?										
										iS			09.7		25										
										I Local 50 mi.															

Note: General locations of regional shocks are from preliminary reports of the Seismological Laboratory, Pasadena, California.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . . .OCTOBER, 1944

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

In the following report symbol I represents shock with small trace amplitude on record or poorly recorded, II represents a fairly well recorded shock, and 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.

Epicenters were located as follows:

No.	Date	G.C.T.	Location of Epicenter
46	1	22h 47m 17s	7½ mi. ENE of Boulder Dam
47	7	09h 34m 19s	3½ mi. SSE of Boulder Dam
48	9	02h 39m 19s	2 mi. E of Boulder Dam
49	9	05h 19m 41s	3 mi. SSW of Boulder Dam
50	10	09h 02m 45s	5½ mi. E of Boulder Dam
51	15	12h 40m 05s	3 mi. NW of Boulder City
52	15	20h 41m 55s	1½ mi. NW of Boulder City
53	16	00h 38m 19s	2 mi. NW of Boulder City
54	20	09h 14m 19s	2 mi. NW of Boulder City
55	20	09h 26m 07s	2½ mi. WNW of Boulder City
56	20	21h 01m 35s	3 mi. SW of Overton
57	21	11h 47m 13s	3 mi. SW of Boulder Dam
58	22	13h 53m 21s	10½ mi. W of Pierce Ferry
59	24	10h 37m 13s	Within 1 or 2 mi. of Boulder City, probably N

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
49	9	05h 19m 42s	IV in Boulder City. Felt by several. Rattled doors & windows.
50	15	09h 30m 12s	II in Boulder City. Probably noise only.
51	15	12h 40m 07s	IV in Boulder City. Awakened several.
57	21	11h 47m 14s	III in Boulder City. Awakened few.
59	24	10h 37m 14s	IV in Boulder City. Awakened many. Rattled doors & windows.

Confidential-not for publication.

International Seismological Centre

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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	i 10 18 02.9				iP 10 18 00.0		no time		iP 10 18 07.0			
	iP 03.9				iP 00.6				iP 07.6			
	iS 20.6				iS 10.5				i 27.0			
	0 17 37.3	90 mi.			iS 11.6		59½ mi.		iS 28.2		105 mi.	
	I Local to Regional, probably west of Pharanagat Valley											
46 1	iP 22 47 21.8			-440	iP 22 47 00			-3 -5 +48	iP 22 47 27.7			+20 -9 +70
	iS 24.8			-295	iP 00.4			+16 +32	iS 35.0			+127 +158 +180
	0 17.4				iS 06.9		time?	+95 +83 35½ mi.			36 mi.	
	II Local, 15½ mi. Epicenter 7½ mi. ENE of Boulder Dam											
2	iP 17 28 04.3		1.64	-12 +9 +30			no time		iP 17 28 00.3			
	ipP 36.4											
	II Distant. CGS 14.5° N. 90.1° W.											
2									iP 18 12 45.2			+30
									iS 47.4			+75
									I Local, 11 mi.			
2									iP 18 40 30.9			+10
									iS 33.2			-22
									I Local, 13 mi.			
2	iP 20 41 26.0			-4 +15					iP 20 41 28.5			
	i 45.7								ipP 47.9			
	iS 51 04.9											
	I Distant											
3	iP 02 30 03.4			+3 +10 -20	iP 02 29 56.4				iP 02 29 58.1			
	I Distant											
3	iP 02 32 14.6		0.28	-8 +2 +15								
	iS 16.9		0.27	-23 +85 -43								
	I Local, 12 mi.											

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Time used is

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
4	iP	05	42	40.9				
	iS		43	10.8				
	I Regional							
4	iP	10	44	07.0		-15	+8	+46
	iS			08.1		+103	+86	+39
	II Local, 6 mi.							
5	iP	17	10	19.5				
	i			44.0				
	I Distant							
5	iP	17	41	21.2				+7
	iP			23.2		+15	+4	+75
	eS		51	43				
	II Distant							
5								
5								
5								
6	i	02	48	14.7				
	iP			16.7				
	I Distant. COS 39°N. 27°E							
6								
OVERTON								
	i	05	42	53.5				
	iS		43	32.1				
	iP	17	10	45				
	iP	17	41	26.3				
	iP			27.9				
	i		51	47.1				
	i			19.0				
	i	20	48	42.6				
	iS			56.2				
	I Local? 69? mi.							
	i	20	56	50.7				
	iS			53.3				
	iM			57.4				
	I Local, 13 mi.							
	e	22	46	42.3				
	e	02	47	23				
			52	45				
PIERCE FERRY								
	iP	05	42	48.3				
	iS		43	24.3				
	e	17	10	11				
	iP		11	15.1				
	i		14	41.1				
	iP	17	41	24.2				+12
	iP			26.3				+16
	i		42	07.7				
	i		52	16.3				
	i	18	06	53.4				
	iP	22	46	38.4				
	iS		47	14.1				
	I Regional							
	iP	02	48	14.2				
	i		52	13.2				
	iP	17	46	58.4		+15	+16	-88
	iS		47	00.2		+125	+230	+90
	I Local, 9 mi.							

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47	7	BOULDER CITY	iP	09	34	21.2	0.17	+22	-5	-70
			iS			22.6	0.29	+50	+220	-160
			e			19.1	7 mi.			
			II Local Epicenter 3½ mi. SSE of Boulder Dam							
		OVERTON	iP	09	34	31.5				
			iS			39.5		10		
							42½ mi.			
		PIERCE FERRY	i	09	35	30.5				
			iS			39.5				
							41 mi.			
	7	PIERCE FERRY	e	22	45	51				
			I Distant?							
	9	BOULDER CITY	iP	02	31	04.1		-4	+3	-18
			i			16.3				
			I Distant							
		OVERTON	e	02	31	03.8				
		PIERCE FERRY	iP	02	31	06.0				
			i			19.3				
48	9	BOULDER CITY	iP	02	39	22.0		+8	+3	-16
			iS			25.8		-23	+64	-47
			II Local, 9 mi. Epicenter 2 mi. N of Boulder Dam							
		OVERTON	e	02	39	37.6	38 mi.			
			iS			38.1				
			0			19.4				
		PIERCE FERRY	i	02	39	31.3	39½ mi.			
			iS			38.3		-12	+22	
			BOULDER DAM							
			i	02	29	20.3				
			iS			20.8				
	9	BOULDER CITY	i	02	41	11.0				
			iP			16.7				
			iS		42	05.7				
			i			29.2				
			I Regional							
		OVERTON	iP	02	41	18.4				
			i			30.1				
			iS			36.5				
		PIERCE FERRY	iP	02	41	15.9				
			iP			26.5				
			iS		42	18.5				
49	9	BOULDER CITY	iP	05	19	41.7		+12	-6	-48
			iS			42.5		-73	+225	+57
			0			40.6	4 mi.			
			II Local Epicenter 3 mi. SSW of Boulder Dam Felt by several in Boulder City							
		OVERTON	i	05	19	53.1				
			iS		20	01.3	42½ mi.			
		PIERCE FERRY	i	05	19	54.2				
			iS		20	01.5	43½ mi.	+10	+14	
			BOULDER DAM							
			iP	05	19	41.9	4 mi.			
			iS			42.7				
	9	BOULDER CITY	iP	20	58	26.0				
			I Distant							
		OVERTON	e	20	58	30				
		PIERCE FERRY	iP	20	58	27.8				
	10	OVERTON	e	07	36	08.4				
			e		38	54.8				
		PIERCE FERRY	iP	07	35	55.6				
			iS		38	51.7				
			I Distant							

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	10	BOULDER CITY								
			e	07	45	33				
			I	Regional						
		OVERTON								
			iP	07	45	55.7				
			iS		46	51.6				
		PIERCE FERRY								
			i	07	45	54.0				
			iS		46	01.5	37 mi.			
50	10	BOULDER CITY	iP	09	02	47.1				+7
			iP			47.5		-4	-4	+10
			iS			49.5		-27	+53	-10
			iM			50.4		108	94	120
			II	Local, 12½ mi. Epicenter 5½ mi. E of Boulder Dam						
		OVERTON	iP	09	02	54.5				
			iP			55.1				
			iS		03	02.0				
			iS			02.5				
			0		02	44.6	38 mi.			
		PIERCE FERRY	i	09	02	54.0				
			iS		03	01.5	37 mi.			
	10	BOULDER CITY	iP	14	31	30.7				
			i		32	45.2				
		OVERTON	i	14	31	37.3				
			i		32	46.4				
		PIERCE FERRY	iP	14	31	19.3				
			iS		32	50.0				
			I	Regional						
	11	BOULDER CITY	iP	05	24	10.1		+7	+3	+20
			iS			12.7		+30	+20	+10
			I	Local, 13½ mi.						
		PIERCE FERRY	iP	05	24	17.3				
			iS			25.2		-11	-18	+12
	11	BOULDER CITY	iP	09	56	47.9		+11	+7	+55
			I	Distant						
		PIERCE FERRY	iP	09	56	51.6				
	12	BOULDER CITY	iP	15	27	55.6				
			iS		28	23.6				
			i			28.2				
			I	Regional						
		PIERCE FERRY	iP	15	27	57.3				
			iP			03.3				
			iS?		28	31.9				
			iS			49.1				
			i			47.6				
	12	BOULDER CITY	iP	16	20	00.5				
			ipP			49.8				
			II	Distant						
		PIERCE FERRY	iP	16	20	02.0				
			ipP			51.4				
	13	BOULDER CITY	iP	04	26	12.1				
			iP			14.4				
			iS			34.0				
			iS			37.3		65	55	85
							104 mi.			
		OVERTON	iP	04	26	07.0				
			iP			07.6				
			iS			22.1				
			iS			22.7		225	200	290
							79 mi.			
		PIERCE FERRY	iP	04	26	14.0				
			iP			15.7				
			iS			36.9				
			i			40.0		480	515	250
							11 mi.			
			I	Local to Regional. Probably east of Alamo						

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14	i 02 31 56.3 I Distant											
14	i 09 20 04.6								iP 09 20 13.9 I Distant			
14	iP 15 26 33.8 i 28 18.2 I Distant				iP 15 26 33.5				iP 15 26 35.5			
14	iP 16 33 08.3	I Distant			e 16 33 12				iP 16 33 11.6			
14	e 19 32 36.5	I Distant			e 19 32 39				e 19 32 36.3 iP 39.4			
14									e 20 31 53			
14	e 22 28 46.1								iP 22 29 49			
15	i 04 13 53								iP 04 13 51			
15	iP 04 35 24.7 iS 25.9 II Local, 6 mi.			+38 -22 +215 -330-218								
15	iP 05 43 32.3 iS 33.5 I Local, 6 mi.			+11 -8 +63 -78 -57								
15	i? 07 41 56.7 i? 59.2 i 42 00.9 i 02.5 I Local, 27 mi. Maybe blast, Apex, Nevada?			+12 -5	i? 07 41 58.8 i 59.7 iS 42 05.2 32½ mi.			+20 -22	iP 07 42 05.2 iP 05.4 iS 15.8 0 41 49.5 54½ mi.			-1 +12 -8 -38 +85 -105+70
15					e 08 08 27.7				e 08 08 25 Distant			

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No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
	15								
	15	iP	09	30	12.4	0.16	+60	-29	-155
		iS			13.6	0.20		-195	
		0			10.7	6 mi.			
		II Local, probably 5 mi. S of Boulder Dam. Felt by few in Boulder City							
	15								
	15								
51	15	iP	12	40	07.4		+700	-375	
		iS?			09.0				
		0			05.3	from Pierce Ferry & Overton			
		III Local, 7½ mi. Epicenter 3 mi. NW of Boulder City. Felt by several							
52	15	iP	20	41	56.9	0.22	+120	-80	
		iS			58.1	0.23		-670	
		0			55.1	6 mi.			
		II Local. Epicenter 1½ mi. NW of Boulder City. Felt by few in Boulder City							
53	16	iP	00	38	20.9	0.20	+98	-80	+
		iS			22.1	0.33		-660	
		0			19.0	6½ mi.			
		II Local, epicenter 2 mi. NW of Boulder City							
	16								
	16	iP	01	42	16.6	0.20	+8	-3	+32
		iS			17.7	0.22	-45	-48	-32
		I Local Probably to NE of Overton							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									
	15	e	09	26	10.6				
	15	i	09	30	19.9				
		i		31	32.2	44½ mi.			
	15								
	15	i	12	15	02.5				
		I Local							
51	15	iP	12	40	17.9		-4	-4	+50
		iP			18.2		+5	-7	-50
		iS			26.5		-83	+30	-40
		i			27.3	44 mi.	+86	-60	
		III Local, 7½ mi. Epicenter 3 mi. NW of Boulder City. Felt by several							
52	15	i	20	42	07.7				
		iS			16.2		+5	15	
						44 mi.			
		II Local. Epicenter 1½ mi. NW of Boulder City. Felt by few in Boulder City							
53	16	i	00	38	31.7				
		iS			40.5		-18	-15	
						44½ mi.			
		II Local, epicenter 2 mi. NW of Boulder City							
	16	I Distant							
	16								

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
	15	e	09	26	35.3				
		iP			37.3	I Distant			
	15	i	09	30	25.7				
		iS			34.0				+7
						42½ mi.			
	15	iP	10	01	22	I Distant			
	15	iP	12	14	42.3		-6	-3	+47
		iS			49.2		-12	+23	+54
51	15	iP	12	40	19.4		-8		-27
		iPN			19.6			-8	
		iS			29.0				+80
		iSN			29.3	49½ mi.		-200	
52	15	e?	20	42	07.9				
		iP			08.9				
		iS			18.6				+15
		iS			20.0	48½ mi.			-44
53	16	iP	00	38	33.2				
		iP			33.9				
		iS			42.7				-16
		iS			43.8	49 mi.			
	16	e	00	42	27.7				
		i			30.9				
	16	i	01	42	39.0				

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BOULDER CITY								
16	iP?	08	59	38.8				
	iP			53.3				
	I Local, 90 mi.?							
16	iP?	13	16	00.6				
	iP			01.3				
	iS			34.1		+10	-10	-33
	i			35.1		+25	167 mi.	
	I Regional, near 37.2°N. 116.7° W.							
16								
16								
17	e	10	16	41.0				
	iS		17	30.6	103½ mi.			
	I Regional, near 37.2° N. 114.2°W							
17								
17	iP	18	08	31.4				
	iS		09	13.2		+7	-16	0
	iSZ			13.6				-12
	I Regional							
18	iP	13	54	02.3				
	iS			35.5				
	I Regional, 160 mi.							
18	iP	18	12	28.1		-11	-13	-5
	iPZ			28.4				+54
	iS			29.6		-60	-105	-50
	I Local, 7½ mi.							

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	e	08	59	23.6				
	iS			34.0		+10	55	mi.
	iP	13	16	00.2				
	iP			02.2				
	iP			03.0				
	iS			34.8			-24	
	iS			37.5	168 mi.			
	i	10	17	00.9				
	iS			13.5	67½ mi.		40	
	I Distant							
	i	14	20	45.5				
	iS		21	21.5				
	I Regional							
	iP	23	14	33.5				
	I Distant							
	iP	10	17	07.0				
	iS			24.7	90½ mi.			40
	e	17	55	29.8				
	e	18	08	37.0				
	iP			39.0				
	iS		09	30.2				+30
	i			33.1				-55
	iP	13	53	05.7				
	iP			12.7				
	iS			53.0				

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	iP	08	59	24.5				
	iS			35.9				
	iR					42	60	59mi
	iP	13	16	03.6				
	iP			09.2				
	iP			10.7				
	i			46.8		+20		
	iS			49.2	195mi	-25	+47	

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18	i	18 59 07.6										
	is	09.8		-28 +140 +50								
	II	Local, 6½ mi.										
									i	20 52 48.2	44½ mi.	
18	iP	20 52 37.4		-15 -6 +45								
	is	38.8		-39 +290 -135					is	56.7		-19
	II	Local, 7 mi. probably midway between Boulder City and Boulder Dam.										
									i	23 10 32.8		
18												
									i	02 20 13.1	50½ mi.	
19	iP	02 20 01.4	0.16	+25 -20 +135								
	is	02.6	0.24	-390 -285 +180					is	24.1		8
	II	Local, 6 mi. NW of Boulder City										
									iP	13 58 00.8		
19	i	13 57 57.5			i	13 57 57.3						
									iP	15 32 27.5		
19									i	34 24.5		
									is	28.3		
	I	Regional to distant										
									iP	20 03 17.3		
19	I	Distant										
20	iP	01 13 05.2			i?	01 13 02.1			iP	01 13 09.3		
	iP	12.0			i	11.2			iP	17.7		
	iP	14.5			iP	20.6			iP	25.8		
	is	14 02.2			is	14 01.5			i	14 08.6		
	is	08.7		+80	is	05.7		+100	is	17.4		-75
	II	Regional										
20	i	05 18 38.9			e	05 19 10.2			i	05 18 35.8		
					I	Distant						
									iP	08 04 59.3	65 mi.	
20	I	Local							is	08 05 12.1	+20 -6	-10
									iP	09 11 52.5		
20	i	09 11 50.2			iP	09 11 52.4			i	13 59.6		
					I	Distant						

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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
54	20	1P	09	14	21.0		+15	-10	+63	1S	09	14	40.8					1S	09	14	43.1				
		1S			22.1		-145	-135	-65	0			19.4	44½ mi.								49 mi.			
		II Local, 5½ mi., epicenter 2 mi. NW of Boulder City																							
55	20	1P	09	26	08.9		+12	-12	+67	1S	09	26	28.7					1S	09	26	31.1				
		1S			10.1		-200	-150		0			07.1	46 mi.								50 mi.			
		II Local, 6 mi. Epicenter 2½ mi. NNW of Boulder City																							
	20	1P	09	55	45.3		+9	-10																	
		1S			46.5		-120	-115	85																
		II Local, 6 mi.																							
	20	1P	10	06	45.8		+8	-10	+38																
		1S			47.0		-85	-80	-45																
		I Local, 6 mi.																							
	20	I Regional								1	20	00	51					1P	20	00	29.9				
																		1P			30.3				
																		1S			50.2				
																		1S			52.2				+55
56	20	1?	21	01	46.9				-5	1?	21	01	35.8					1P	21	01	45.8				+5
		1SZ			55.3		+6	-10		1P			37.8					1S			53.6		-15	+14	+10
						42½ mi.				1S			39.7									49½ mi.			
										0			34.8	10 mi.											
		II Local, epicenter 3 mi. SW of Overton																							
	20	1P	23	13	09.6					1	23	13	08.5					1P	23	13	12.7				
		I Distant																1			22.2				
57	21	1P	11	47	14.4		+58	-25		1?	11	47	23.0					1	11	47	25.4				
		1S			15.3		+290	+385		1?			27.8					1P			25.8				
		0			13.0	5 mi.				1S			33.6	43 mi.	+10			1S			34.5	44½ mi.			+10
		II Local, epicenter 3 mi. SW of Boulder Dam. Felt by one in Boulder City																							
	31									I Regional								1P	13	57	21.5		-7	+6	+17
																		1S			40.2				
																		1S			43.6				-2

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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
	21	i	20	24	48.8					e	20	24	55					iP	20	24	45.4				
																		I Distant							
	21	i	21	27	21.0													iP	21	27	24.8				
																		I Distant							
	22	e	06	29	03.5					e	06	29	12.6					eP	06	29	05.8				
		iS			40.8					eP			17.0					iS		30	02.2				
										iS		30	00.5					I Regional							
58	22	i	13	53	38.5			3		i	13	53	35.5			2		iP	13	53	23.6		+18	-12	+65
										0			20.5					iS			25.7		-60	+165	-75
						37½ mi.								31½ mi.								10½ mi.			
		I Local. Epicenter 10½ mi. N of Pierce Ferry																							
	22	iP	18	59	27.6		+5	-5	+18	iP	18	59	27.3					iP	18	59	29.4				
		iPP			40.6					iPP			40.4					iPP			42.0				
		i	19	03	07.0													i			49.3				
		i		06	18.3													e	19	03	11.				
		II Distant																							
	23	iP	22	01	35.6					e	22	01	58					eP	22	01	43.7				
		iP			48.1					eS		02	50					iP			44.3				
		i		02	30.5													i			54.7				
		iS			34.6													iS		02	51.1				
		I Regional																							
	23	iP	23	48	46.1				-10	e	23	48	42.2					eP	23	48	42.0				
		iP			50.6				-40	e		55	55					iP			47.4				
																		iP			52.3				
		I Distant CGS 0.5°N 80.0°W																eS		55	43				
																		eL	00	05	43.	11			
																		M		08	15	16			
	24	iP	00	36	23.8				-20	i	00	36	31.6				-4	iP	00	36	19.8				
		I Distant																i			46.5				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1944 11.

Time used is

	No.	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
	24	iP	07	53	54.7				-30	iP	07	54	04.0				-4	iP	07	54	02.3				-42
		iP			59.7				-40	iP			04.4				+10	iP			09.3				-70
		i		54	23.0					iP			13.3				-32	iP			11.7				-17
		is			30.1					i			14.8				-68	i			42.5				
		i			32.7				-10	i			43.8					is			47.5				
		I Regional								is			51.4					is			52.4				+18
59	24	iP	10	37	14.2		-36	+157		i	10	37	28.4					i	10	37	26.9				
		is			15.1		-250	-360		i			29.2					is			35.1		-7	+9	
										is			34.0	44 mi.				is			35.7				+11
										is			37.0		+15		+11								
		II Local, 4½ mi. Felt by one in Boulder City																				47½ mi.			
		BOULDER DAM																							
		is	10	37	16.0	6½ mi.	0.5 mm.																		
		Epicenter ½ mi. S of Boulder City																							
	24	I Regional								i	17	17	35.5					iP	17	17	03.9				
										i			03.9					is			35.9				
	24																	iP	18	48	30.8		+8	+8	+25
																		i			31.8				+70
																		is			32.2		+155	+295	
		I Local																is			32.5	7½ mi.			+20
	26	iP	22	15	28.4					i	22	15	46.0					iP	22	15	34.6				
		iP			37.3					iP			50.3					iP			40.6				
		is		16	15.6					i			56.7					iP			45.1				
		is			18.0					is		16	36.3					i			49.3				
		I Regional																i		16	23.3				
																		is			31.2				
																		is			35.3				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 194

Time used is

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
26	iP	22	54	58.0				
	iP		05	05.7				
	iP			07.9				
	i			10.2				
	i			40.9				
	is			46.2				
	is			48.7				
	II Regional							
27	e	12	28	26				
	I Regional to Distant							
28	iP	04	02	45.7				
	iP		03	04.2				
	i			48.3				
	is		04	13.1				
	is			18.2				
	I Regional							
28	iP	18	30	57.6		-7	+3	+15
	iP			58.9		-11	-17	-65
	iP		31	06.3			-17	-45
	i			10.1		-25	-35	+100
	i			27.5		-40		
	is			34.9		+20	+60	-90
	is			37.7		-170		-350
	is			37.8			-660	
	II Regional							
29	e	00	30	05				
	I Distant							
29	iP	07	13	44.1				-15
	iP			48.9				+10
	is		14	20.2				
	is			22.5				
	I Regional							

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
26	iP	22	55	16.6				
	iP			20.9				
	iP			27.1				
	is			07.0				
	is			11.2				
27	i	12	28	28.0				
28	iP	04	02	53.8				
	is		04	23.7				
28	i	18	31	18.2				
	iP			26.3				
	iP			31.1				
	is			57.4			-155	
29	e	00	30	15				
29	iP	07	13	53.2				
	iP			54.1				
	iP		14	01.5				-18
	i			02.3				
	i			39.9				
	is			45.9			-25	

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
26	iP	22	55	05.4				
	iP			11.4				
	iP			16.2				
	i			53.9				
	is			02.2				
27	iP	12	28	21.6				
	i			47.9				
28	iP	04	02	48.8				
	i			58.2				
	is		04	11.1				
28	iP	18	31	05.2		+13	+3	+48
	i			09.0				
	iP			14.6				
	i			36.7				
	i			45.8				
	is			54.2		-390		
	is			54.5			-1300	
	is			54.6				-29(
29	e	00	28	29				
	iP		30	05.8				
29	iP	07	13	51.5		-7	+7	-20
	iP			58.6			+18	-24
	is		14	35.8		-35	-50	-27
	is			37.9				-65

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 194.4

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29	IS	14	07	06.3				
	I Regional							
20	IP	05	44	11.2	1.05			+15
	i			21.9				
	I Distant							
30								

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eS	14	07	23.8				
iP	05	44	09.7				
i			20.4				
I Seismic waves							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	14	06	31				
i			41.3				
iS		07	14.1				
iP	05	44	01.9				
i			12.1				
e	23	30	20.7				
i			40.5				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT. . . . . NOVEMBER, 1944

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

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

Epicenters were located in the Lake Mead region as follows:

No.	Date Nov.	G.C.T.	Location of Epicenter
60	11	04h 04m 26.5 s	2 mi. NW of Boulder City
61	11	10h 51m 37.7s	17 mi. due W of Carp, Nevada
62	14	14h 47m 25.1s	8½ mi. w of Overton and 2½ mi. SSE of Glendale Station
63	15	08h 46m 23.3s	W Slope of Gregg Basin 10 mi. WSW of Pierce Ferry
64	20	03h 16m 32.6s	2 mi. NNW of Boulder City
65	21	08h 33m 39.9s	1 mi. N of Boulder City
66	26	13h 14m 56.3s	2½ mi. NNW of Boulder City
67	26	16h 43m 33.2s	6 mi. ESE of Boulder Dam
68	26	20h 24m 38.9s	4 mi. NNE of Boulder City near lake shore

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
65	21	08:34	IV in Boulder City. Felt by several, awakened few, rattled windows.
66	26	13:15	III in Boulder City. Felt by few, awakened few.
	29	14:20	IV in Boulder City. Felt by several. Rattled doors and windows.

The following readings should be included in the report:

Nov. 1	Boulder City	i 00h 35.2 m		I Local 5 mi.
Nov. 1	Pierce Ferry	i 07h 23.4m		I Local 5 mi.
Nov. 1	Pierce Ferry	i 11h 37m 21s		
		38m 06s		I Regional
Nov.	Boulder City	Overton		Pierce Ferry
1	eP 12h 20m 35s	iP 12h 20m 35s		e 12h 20m 37s
	iP' 24 01	i 23 08		i 53
		iP' 24 01		iP' 24 02
		i 33 11		i 24

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 194 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	
2	i?	05	02	06					eP	05	02	00						eP	05	02	05.5					
	iP			11.5					eS		03	23														
	eS		03	22																						
	I Regional - San Benito County, Calif., ?																									
2									iP	09	33	15	1.2	I Distant				iP	09	33	15					
2									iP	11	08	53.2	0.6			+		iP	11	08	49.5					
									i		09	21														
									I Regional ?																	
3	i	01	44.5																							
	I Local - 1½ mi.																									
3	eP	06	26	35					eP	06	26	37						iP	06	26	37.1					
	eP			38.7																						
	iP			46.5																						
	I Distant																									
3																		iP	07	59	47		+20	+16	-140	
																		iS			48.9					
																		II Local 10 mi. SE								
3																		iP	12	40	22					
																		iS			46					
																		I Regional								
4	iP	05	28	19.8				+70																		
	iS			20.8				56																		
	I Local 5 mi.																									
4	i	08	13	21.5					e	08	13	18						eP	08	13	04.5					
	I Regional, near Tulare, Calif.,																	i		14	12.5					
4	e	15	20	09.6					eP	15	20	22.8						iP	15	19	05.4		-	+	-	
			20	41							21	10						i			50					
	I Regional, E of Borego Valley, Calif.								i			14						i		20	04					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 1944

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	06 32 25 I Regional ?				-	iP	06 32 25				+
5													eP i	08 59 26 54 I Regional				
5	i	15 03.0 I Local, 5 mi. trace																
5							iP iPP	16 29 32.5 30 59.5	1.0			+	iP	16 30 32.7				
5														Several disturbances between 16:00 and 19:00, some of which may be seismic.				
5	iP iS	22 58 33.2 34.0 II Local 4 mi. ESE		+28	-12	-140 200												
5	i	23 00.0 I Local 6 mi. trace																
6	i	17 43.0 I Local disturbance, 4 mi. ?																
7	iP	09 51 21.5 I Distant	1.2			+	iP	09 51 23.7				+	iP	09 51 26				+
7	eP	16 03 24.5 I Distant, trace	1.2										iP	16 03 28.5				
8													iP iS	00 13 17.8 47.3 I Regional, near Searls Lake, Calif.,				

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 194[illegible] 3.

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
8	eP	20 31 11.5			eP	20 31 03.1			eP	20 31 06.5		
	iP	18.2			iP	07.6			iP	10		-
	eS	32 00.2			eS	40			iP	12.5		
	iS	02.0			iS	43			eS	43.5		780
									iS	47		
		II Regional - 228 mi.				II Regional - 186 mi.				III Regional - 202 mi.		
		Epicenter 38° 52'N 112° 45'W,				about 20 mi. SSW of Fillmore, Utah						
8									eP	20 37 00		
									iS	36.5		
										I Regional - aftershock		
8					eP	21 06 29			eP	21 06 32		
					iP	39			iP	35		
					eS	07 05			iS	07 10		
						I Regional - 195 mi.				208 mi.		
						May be aftershock						
8	i	21 16.5										
		I Local trace 4 mi.										
9	eP	01 33 36			eP	01 33 23.6			iP	01 33 29.4		
	e	34 17			iP	27.3			iP	32.2		
	iS	22			eS	34 03.6			iS	34 06.7		
		I Regional - may be aftershock										
										10 traces of other aftershocks		
										not listed - were recorded		
										at Pierce Ferry		
9					eP	09 04 13.5			eP	09 04 43		
					iP	24.5			iP	05 55		
						I Distant						
10	[illegible]	04 10 46										
		I Distant										

International Seismological Centre
M-1073-4

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF November 194 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
10	iP	08 42 36.5					iP	08 42 40.5					eP	08 42 40.5				
		I Distant																
10	i	10 53.0																
		I Local, 5 mi.																
10	i	10 54.6																
		I Local, 5 mi.																
10	eP	13 23 26.5					eP	13 23 29.5					eP	13 23 32.5				
	iP	32.5					iP	39					iP	40				
		I Distant					eS	28 11					e	28 23				
							eS	56					i	29 07				
							i	29 54					i	19				
11		00 56																
		2 disturbances - 5 mi.																
60 11	iP	04 04 28.1		+22	-15	+45	iP	04 04 38.8					iP	04 04 40.2				
	iS	29.2				220	iP	39.9					iP	40.5				
	e	26.5					iS	47.9					iS	50.0				
		II Local 5½ mi. NW					iS	48.6					iS	50.8				
		Epicenter 2 mi. NW of Boulder City						43 mi.					iS	51.8				
														49 mi.				
11													iP	04 17 23.1		+20	+20	+70
													iS	25.2				
														I Local 10½ mi. SW				
11	iP	05 34 57.9																
	iS	58.9		+10	-10	+												
		I Local 5 mi. NW																

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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													IP	05 34 02.5	I Distant			
61 11	IP	10 51 59.6					IP	10 51 52.0					IP	10 52 00.5				
	IP	52 00.8					IP	53.6					IP	00.8				
	IS	16.3					IP	55.0					IP	02.3				
	IS	18.1					IS	52 01.8					IS	18.5				
	O	10 51 37.7					IS	03					IS	20.1				
		II Regional 80 mi.						II Local, 50 mi. NW						II Regional, 85 mi.				
		Epicenter 17 mi. due W. of Carp.																
12	IP	11 59 32					-											
	IS	33																
		I Local 5 mi.																
12	IP	12 57 54		-30	+33	+110												
	IS	55																
		II Local 5 mi. SE																
12	i	12 59.7				+												
		I Local 5 mi.																
12	i	13 01.4				+												
		I Local, 5 mi.																
12													IP	14 59 37				
13							IP	08 24 32	I Distant				IP	08 24 32.5				
13	IP	19 35 15.5				+	IP	19 35 19					IP	19 35 19.5				
	i	37 22.5					i	37 25					i	37 26				
		I Distant SW																
13	eP	23 51 40.5	1.0				e	23 51 44					IP	23 51 41.5				
14	IP	00 41 30	1.0				IP	00 41 33					IP	00 41 30				
		I Distant																

International Seismological Centre

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Time used is

	No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		14	BOULDER CITY	eP	04	31	50				
				I Regional ? trace							
62		14		i	14	47	37.3				
				i			46.2				
				43 mi.							
		14		iP	19	58	22.5				
				I Distant							
		14		i	20	02.0					
				I Local 8 mi.							
		14		i	23	25	10				
				I Distant							
63		15		i?	08	45	32.6				
				iS			41.8				
				38 mi.							
		15									
		15		e	19	25	36				
				I Regional- Gulf of California							
			OVERTON	e	04	32	23				
				iP	14	47	28.0		+?	+?	-
				iS			30.0				400
				0			25.1				
				II Local, 10 mi.							
				Epicenter about 2½ mi. ESE of Glendale.							
				e	19	58	25				
				e	08	46	33.9				
				iP			34.2				
				iP			41.1				
				iS			43.3				
				0			23.3	37 mi.			
				Epicenter 10 mi. NNW Pierce Ferry on W Slope of Gregg Basin							
			PIERCE FERRY	iP	04	31	52				
				i		32	28.5				
				i	14	47	37.7				
				i			44.3				
				39½ mi.							
				iP	19	58	26				-
				iP	23	25	11				
				I							
				iP	08	45	26.3		+20	-	+
				iS			28.3				
				II Local 10½ mi.							
				iP	09	42	31.5				
				iS			33.3				
				I Local 9 mi.							
				i	19	25	02				
				i			19.5				
				e		26	43				

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MONTH OF November 194

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
15	ePP	21 04 46											eP	21 00 35				
	i	05 58											ePP	04 32				
	eSKKS	12 12											i	05 45				
	iPKKP	16 49											i	08 50				
		I Distant CGS 4° N, 128° E (SE of Philippines) Δ = 7600 mi.											iPKKP	16 52				
15	iP	22 35 09				+25							iP	22 35 26				+
		I Regional or Distant																
15	i	23 41 46																
		I Distant																
15	i	23 45.5																
		I Local, 5 mi.																
16		06 02.5																
		I Local, 5 mi.																
16	eP	12 23 45											iP	12 23 50	1.5			+
	eS	34 26											eS	34 22				
	e	35 36											e	35 36				
	coda	16											coda		17.5			
		(CGS 12° S, 166° E. (near Solomon Islands) Δ = 6150 mi.																
16	iP?	12 37 12											iP?	12 37 13	1.5			
	i	45	1.5										e	47				
		This may be a core reflection from above earthquake.																
16													eP	20 40 32				
														I Distant				
16							e	23 57 35					i	23 56 45				
							e	58 48					i	57 27				
								I Regional, Gulf of Calif., ?					i	58 38.5				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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and Coast and Geodetic Survey

MONTH OF November 194 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
17	eP	00 33 33.6		-	-12	+	e	00 33 44.3					iP	00 33 46.6				
	iP	36.1					iP	48.7		-?	-	-	iP	49.9				
	i	34 02.1					i	50.5					iP	54.7				
	iS	30.4					eS?	34 28.8					iP	57.4				
							iS	33.8					eS	34 46.4				
		II Regional - Northern Owens Valley																
17	e	02 08 14											eP	02 08 18				
		I - faint trace												I Distant				
17	e	02 40 21					eP	02 40 25					eP	02 40 25				
		I faint trace												I Distant				
17	iP	07 08 35				-	iP	07 08 37					iP	07 08 38				-
	i	42.5					i	44.5					i	45				
		I Distant																
17	i	08 59.0																
		I Local, 8 mi.																
17	eP	18 50 35					iP	18 50 37					iP	18 50 39				-
		I Distant																
17	iP	22 23 12					iP	22 23 43.5					iP	22 23 15				-
		I Distant																
18	iP	04 41 09.8		+8	-8	+60												
	iS	10.9																
		I Local, 5½ mi. N.W.																
18	iP	04 46 21.2		+8	-8	+60												
	iS	22.3																
		I Local 5½ mi. N.W.																
18	iP	05 23 54					iP	05 24 28				-	iP	05 23 58				
		I Distant											i	24 23				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 1944

Time used is

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amp'tude 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	eP	08	03	52					iP	08	04	25					iP	08	03	52.5				
18																	iP	21	48	36				-
																	is		49	03	I Regional			
19									e	02	50	52.5					e?	02	51	06.1				
									i		52	49	I trace				e			56				
19	e	03	56	13					eP	03	56	12					i	03	56	14				
		Faint trace																						
19									eP	05	44	41.5					eP	05	44	41	I Distant			
19	i	05	56	06.5					e	05	57	17.5					is	05	56	58				
	i			52.5					e		58	18					i			12.6				
	Faint trace West of Calexico, Calif.,																i			59.5				
																	I Trace, Regional							
19	3	07	00	43					e	06	50	41					e	07	00	42				
									e	07	00	45					eP			55				
																	I Distant							
19																	iP	19	21	37				
																	I Regional							
19																	iP	20	26	07.5				
																	I Distant							
19																	iP	20	39	27				
																	I Distant							
19	iP	22	21	19.7													iP	22	21	30.5				
	is			43													es		22	01				
	I - trace of Regional																I Regional							

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LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF November 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
64	20	IP	03	16	34.2		+40	-35	+60	es	02	16	53.6					e	03	16	46.1				
		IS			35.3				200	es			54.2					i			46.4				
		O			32.6					e			55.9					i			49.2				
			II Local, 5½ mi.															is			55.8				
			Epicenter 2 mi. NNW Boulder City															i			56.4				
	20	IP	03	21	11.6		-	-	+50																
		IS			12.7																				
			I Local, 5½ mi.																						
	20	IP	03	31	19.7					IP	03	31	20.4				-	IP	03	31	20.8				
			I Regional ?																						
	20	eP	04	54	20.5					IP	04	54	24.5					IP	04	54	24				
			I Distant																						
	20	IP	12	40	50.2			-10	+60																
		IS			51.3																				
			I Local, 5½ mi.																						
	20									IP	17	28	13												
										i			14.4												
										IS			19.3												
											I Local, 32 mi.														
	20	IP	20	22	34				-	IP	20	22	33					IP	20	22	37				-
			I Regional ?																						
	20	IP	21	40	32.4	1.2	+5	-5	+35	IP	21	40	34.1		+		+	IP	21	40	35.0				+70
		ipP		41	00.7	1.3	-10	+	-65	ipP		41	01.6				-	ipP		41	03.4				-120
			II Distant compression from NW																						
	21									i	02	15	32.5					IP	02	16	00				
										e			54					IS			17.5				
										es		16	00.5						I trace Regional						
										IS			01												
											I Regional														

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MONTH OF November 1944

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
21	iP	08 33 41.2		+?	-320	+?	iP	08 33 51.8				+50	iP	08 33 52.9				-15
65	iS?	42.6					iP	52.1				100	eS	34 02.4				
	e	39.9					e	34 00.5					iS	02.8				110
		III Local 7? mi.					iS	00.8										
		Felt in Boulder City - Epicenter 1 mi. N. of Boulder City												Boulder Dam				
21													eP	08 33 42.0				
													i	43.0				
													iS	43.9				
														9½ mi.				
21	iP	12 20 31		+12	-12	+?												
	iS	32																
		II Local, 5 mi.																
21	iP	12 23 22.3		+	-	+												
	iS	23.3																
		I Local, 5 mi.																
21	iP	15 09 29					iP	15 09 29.5					iP	15 09 29.5				
		I Distant					i	10 00										
22	i	01 22.4	I Local															
22													i	05 25 41.5				
													iP	59				
													iS	26 43		I Regional		
23							iP	04 04 44.2					e	04 04 44				
							i	36.7					iP	52.5				
								I Regional					iS	05 11.5		I Regional 100 mi		
23							iP	05 53 37		I Distant			iP	05 53 40.5				
23							iP	11 00 43		I Distant			eP	11 01 51				

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MONTH OF November 194

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
24							e	03 02 54	I Regional				e	03 02 32				
													e	03 09				
24	iP	05 01 50	1.3	+25	+16	+215	iP	05 01 53	1.4	+	+	+235	iP	05 01 53		+45		+40
	m					600	i	11 39.5					iSKS	12 11.5				
	ipP	02 28					eSKS	12 10					iS	37				
	eSKS	12 06					eS	38					iSZ	44				
	eS	35					epG	13 12					epS	13 18				
	epS	13 15					isS	53	7				LsS	54				
	esS	41					epPS	14 54					e	14 37				
	epPS	14 51	6.5				esPS	15 21					epPS	15 00				
	esPS	15 16					iP'P'	27 32					iPKHP	19 14	1.5			
	iPKHP	20 04	2.2				ipP'P'	28 07					iP'P'	27 26	1.5			
	iP'P'	27 32	1.7										ipP'P'	28 11				
	ipP'P'	28 09											iSKP	30 31				
		III Distant CGS 20° S, 171° E. New Hebrides, O = 4:48 Δ = 6200 mi.																
25	i	08 59.5	I Local 5 mi.															
25	i	09 23.0	I Local 5 mi.															
26	iP	07 55 22	1.3		-		iP	07 55 24				-	iP	07 55 25				-
		II Distant											iS	08 06 13				
													iS	07 01				
26	e	08 27 26					eP	08 27 32					eP	08 27 29				
		I trace - Distant																
66 26	iP	13 14 57.9		+40	-30	+	iP	13 15 07.6					iP	13 15 10.1				
	iS	59.0					i	08.7					i	20.1				
	O	56.3					i	17.3					iS	20.5				
		II Local 5½ mi. NW					iS	17.6										
		Epicenter 2½ mi. NW of Boulder City Δ = 43.3 mi.												Δ = 48.5 mi.				
		Felt in Boulder City																

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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Time used is

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
26	i	13 57.4	I Local 5½ mi.															
67 . 26	iP	16 43 36.8		-	-?	+	iS	16 43 52.8					iP	16 43 43.9				
	i	37.2					i	54.7					i	45.0				
	iN	37.9					i	55.0					eS	51.5				
	eS	39.2					0	33.2					iS	51.7				
	iS	39.7				160		40.2 mi.						37.5 mi.				
		II Local 12½ mi.																
								BOULDER DAM										
							ePP	16 43 35.4						Epicenter 7 mi. NNE of Boulder Dam				
							iS	37.0	8 mi.									
26	i	18 32.5	I Local trace 5 mi.															
26	iP	18 32 44.8		+4	-10	+30												
	iS	45.6				160												
		II Local 4 mi. NNW																
26	iP	18 33 24.2		?	-15	+55												
	iS	25.0				150												
		II Local 4 mi. N.																
26	iP	18 35 24.2			-	+12												
	iS	25.1				150												
	i	25.4																
		II Local 4½ mi.																
26	i	18 40.4	I Local trace 4 mi.															
26	i	18 40.5	I Local trace 4 mi.															
26	iP	18 41 49.4				+15												
	iS	50.9				50												
		I Local 5 mi.																
26	iP	18 43 43		+?	-	+25												
	iS	43.9				120												
		I Local																

International Seismological Centre

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
	26	i	18 44.4	I Local 5 mi.																	
	26	i	18 49.0	I Local 5 mi.																	
68	26	iP	20 24 40.2		+7	-26	+70		i	20 24 50.5						e	20 24 51.3				
		iS	41.1						e?	58.1						iP	51.8				
		iS	41.5						iS	58.8						i	53.0				
			II Local 4½ mi.						i	59.4						eS	25 00.4				
									0	38.9						i	01.9				
										40.5 mi.							45 mi.				
			Epicenter near lake 4 mi. NNE of Boulder City																		
	26	i	21 17.9	I Local 6½ mi.																	
	26								iP	23 02 43.5											
									eS	12.7	I Regional										
	27	i	00 55.0	I Local 5 mi.																	
	27	i	07 14.0	I Local 5 mi.																	
	27	iP	14 38 39.5				-20														
		iS	40.6				90														
			I Local 5½ mi.																		
	27	iP	16 38 19.8						iP	16 38 22						iP	16 38 16.5				
		eS	46 05						eS	46 05						eS	45 55				
			I Distant						eS	25											
	27	i	20 48.8	I Local, 12 mi.																	
	27	iP	23 36 24.9						eP	23 36 22.0						iP	23 36 28.9				
		iP	26.8						iP	22.9						iP	36				
		e	54.7						iP	26.9						iS	37 13.3				
		iS	58.2						eS	58.4											
			II Regional 30 to 40 mi. E of Tonopah						iS	37 01.4											

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 4 194 15.

Time used is P.S.T. or G.C.T. Strike out whichever does not apply.

BOULDER CITY

No. Date		Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
28	i	01	27.7		I	Local	6 mi.		
28	i	01	58.5		I	Local	5 mi.		
28	i	02	05.5		I	Local	4 mi.		
28	iP	02	55	45		-8	+12	-40	
	iS			45.8				100	
		I Local 4 mi. NE							
28	i	02	58.0		I	Local	4 mi.		
28	i	05	46.0		I	Local	4 mi.		
28	i	07	29.1		I	Local	4 mi.		
28									
28	i	12	30.0		I	Local	5 mi.		
28	i	12	30.1		I	Local	5 mi.		
28	e	16	13	11		-			
	eS		16	35					
		I Distant							
28	iP	19	05	51		+			
		I Distant							
28	iP	23	18	55.8		-	+10	-25	
	iS			56.5					
		II Local 3½ mi. NW							
29	iP	09	36	19.5				+23	
	iS			21.6					
		I Local, 11 mi.							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
i	09	15	16.5	I Regional			
iP	16	13	22.5				
eS		16	30				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	16	13	07.5				
e		16	30				
I Distant							
iP	19	05	53.5				

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Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29	iP	14	20	09.1		-	-	-
	iS			09.9		30	300	
	II Local 4 mi. Felt in Boulder City							
29	i	14	34.4		I Local 4 mi.			
29	iP	19	04	08.5	1.1			+35
	eSKS		14	27				
	eS			52				
	II Distant - Δ = 87°							
30	iP	01	58	07	1.1			+20
	i			48				
	eS	02	08	16				
	eSKS			28				
	I Distant							
30	eP	18	54	45.5				
	iP			49.0				
	i		55	46				
	i		56	14				
	I Distant or Regional							
30	i	20	41.2		I Local 5½ mi.			

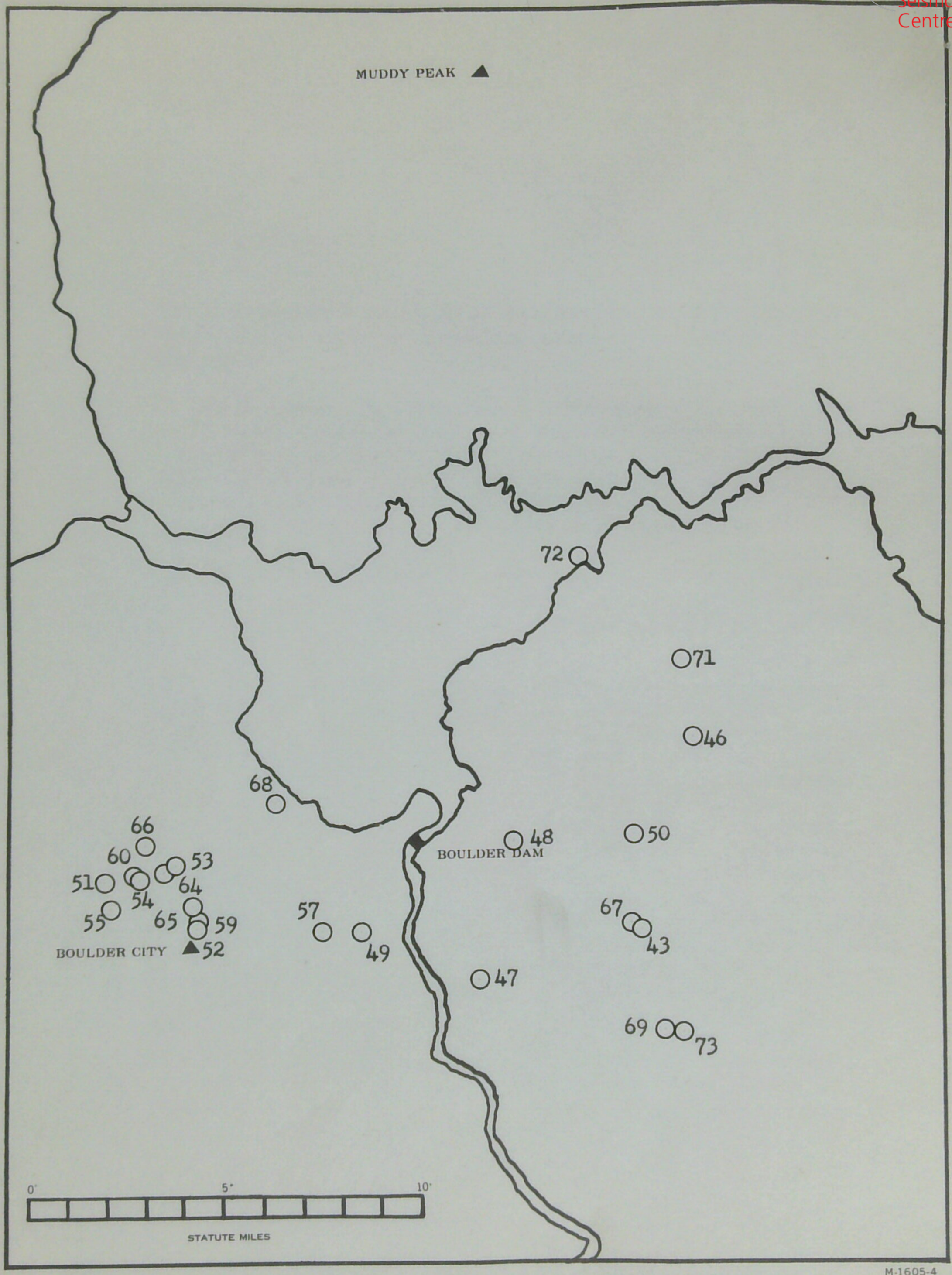
OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	19	04	11				+30
eS		15	01				
iP	01	58	09				
eS	02	08	20				
eSKS			34				
e?	18	54	41.5				
i			53.5				
iS		56	00				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	19	04	11.5	1.2			+60
eSKS		14	31				
eS			56				
ePS		15	42				
i/PS		16	11				
s	II						
iP	01	58	08				
eS	02	08	20				
iSKS			34				
ePS		09	25				
i			50				
	I						
e?	18	54	26				
i			37				
i			58				
i		56	02				

International Seismological Centre



TENTATIVE EPICENTERS IN THE LAKE MEAD REGION

October - December 1944

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORT . . . . .DECEMBER 1944

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

In the following report symbol I represents shock with small trace amplitude on record or poorly recorded, II represents a fairly well recorded shock, and 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.

Epicenters were located as follows:

No.	Date Dec.	G.C.T.	Location of Epicenter
69	4	09h 06m 37.1s	7½ mi. SE of Boulder Dam
70	4	09h 27m 38.6s	On La Madre Mtn. 17 mi. W of Las Vegas. This location was made on the assumption that the focus was beneath the granitic layer at an estimated depth of 10mi. Assuming a P-wave speed of 4.0 mi/sec. in the underlying layer and a corresponding S-wave speed of 2.25 mi/sec., a point intersection was possible using both P and S phases.
71	11	08h 41m 54.5s	8 mi. ENE of Boulder Dam
72	11	17h 03m 04.8s	8½ mi. NE of Boulder Dam
73	12	12h 10m 30.5s	8 mi. ESE of Boulder Dam
74	22	23h 04m 00.6s	In Grand Wash about 35 mi. N by E of Pierce Ferry and 8 mi. SW of Cane Spring.

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF December 1944

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	04 11 51.3											iP	04 11 53.5				
	iPP	13 54											iPP	13 56				
	eS	21 22											eS	21 26				
	II Distant																	
1	iP	15 07 05						II Distant $\Delta = 78°$					iP	15 07 08				
	i	28						h= 80 mi.					ipP	40				
	ipP	39											iS	16 56				
	e	18 06											isS	18 00				
2	i	03 26.7	I Local 15 mi.										i	03 27.4				
3	i	00 10.6	I Local 15 mi.															
3							iP	07 55 43.5	I Distant				iP	07 55 44.5				
3	iP	13 46 07		+15	-12	+124												
	iS	08			200													
	II Local 5 mi. NW																	
4	i	02 44.9	I Local 5 mi.															
69 4	iP	09 06 40.7		-18	+12	+75	i?	09 06 48.6					iP	09 06 47.6		-10		-25
	i	41.8					i	49.8					iP	48.6				
	eS	42.9					iS	57.5					eS	55.2				
	iS	43.2		200			iS	58.3					iS	55.6				
	II Local 12½ mi.						42 mi.						iS	56.0				
	Epicenter 7½ mi. SE of Boulder Dam												37 mi.					
70 4	iP	09 27 49.5		+10	-10	+40	iP	09 27 55.1			+10		iP	09 27 59.9		+	?	+13
	eZ	56.6					i	55.4					iN	28 00.2			+10	
	iS	57.0					eS	28 06.5					iP	00.6				
	i	28 00.7		100			iS	06.8					i	04.5				
	0	27 38.6					57½ mi.						iS	15.0				
													iS	15.4				
	I Local 38 mi. NW												75 mi.					
	Epicenter on La Madre Mtn. 17 mi. W. of Las Vegas, estimated depth 10 mi.																	

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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
4									iP	10	12	02.5	I Regional or Distant											
4									eP	11	33	13	I Distant											
4	iP	20	47	26.8	1.0	-?	+	-50	iP	20	47	27.4				-70	iP	20	47	59		+		+30
	i			46.2					i			51					iP		48	00				-150
	e			50													iS		57	56				
	i		48	06													eS		58	35				
	i			28																				
	II Distant - Reported felt in Saipan																							
5	iP	01	03	04.7					iP	01	03	06					iP	01	03	02				
	i			40					i			39					i			33				
	i			50.5																				
	I Distant																							
5	i	02	59.0		I Local 7 mi.																			
5																	i	04	33.3		I Regional 80 mi.			
5	i	06	07.3		I Local 5 mi.																			
5									iP	09	10	35					iP	09	10	35				
									iS		11	16					iP			40				
									I Regional								i		11	02				
																	i			09				
5	iP	09	18	10.2				-	iP	09	18	06					i		18	04				
	iS		19	05.7					i			55					i			45				
	I Regional																							
5	eP	14	38	18					iP	14	38	23					iP	14	38	23				
5	iP	14	44	11					eP	14	44	16					iP	14	44	40				
	e		47	20					e		47	24					e		47	32				
	II Distant - Probably off Oregon Coast								e			44					e			54				
									i		55	58					i		56	58				
									i		56	04	1.5											

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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 Amplitud E	N
5	eP	17	12	10	1.4				eP	17	12	16	1.8				iP	17	12	08			
	i		15	19					e		15	47					iP			13			
	e			31					e		16	15					e		15	12			
	e		16.4		7	- Probably off Oregon Coast											e			30			
																	i		21	58	1.0		
																	i		25	11	1.0		
5	e	17	59	40					e	18	00	00					e	17	56	19			
									e			15					eS		59	31			
6									i	18	50.0		I Local 13 mi.										
7	i	04	35.0		I Local 5 mi.																		
7	eP	04	48	10.1													iP	04	48	13			
	iP			12.1													iP			25.5			
	iP			25													eS		58	46			
	i		32	30													ePKKP	05	06	46			
	iS		58	40													i		07	18	1.0		
	iPKKP	05	06	59	1.5												eG		11.7		40		
	eP'P'		14	42	2.0												iP'P'		14	48			
	iP'P'P'		35	46	2.0												iP'P'P'		35	34			
	coda				15												i	06	00	35	1.0		
																	coda				15		
									III Distant - Destructive in Japan CGS 33° N, 137° E O= 4:35.7 Δ = 5800 mi.													
7	iP	06	38	03.6	1.5												iP	06	38	05			
	i		41	34													e		48	30			
																	II after shocks						
7	e	07	01	17													i	07	01	18			
	i			19.5													I after shocks						

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF December 1944 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
7	iP	14	34	55.5		-10	+15	-38									eP	14	35	02.5				
	eS		35	10.2																04				
	iS			11.5													eS			25				
	II Regional - 75 mi. NW																	115 mi.						
7	iP	15	18	17	I Distant												iP	15	18	20	I Distant			-
7	iP	21	10	11													iP	21	10	14				+
	i		13	16																				
	I Distant																							
7	iP	22	53	48	I Distant												iP	22	53	50.5				-
																	i	23	01	06				
8	iP	01	22	49.5	1.5				iP	01	22	50					iP	01	22	50				
	I Distant																							
8	i	01	31.2		I Local 9 mi. NNE																			
8	i	06	38.5		I Local 5 mi.																			
8	eP	07	30	08.5					eP	07	30	12.5					iP	07	30	13				
	I Distant																							
8	iP	09	21	51.5					iP	09	21	51.3					iP	09	21	46.5				
	iS		22	40					eS		22	36.3					iP			47.5				
	I Regional																iS		22	35.5				
																	iS			51.5				
8	eP	13	12	29	I Distant				eP	13	12	32												
8	iP	16	39	57													iP	16	40	01				
	I Distant																							

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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
8	iP	18 33 15	I Distant										eP iP	18 33 17 18				
8	i	21 11.7	I Local 5 mi.															
8	i	21 25.7	I Local 3 mi.															
8	i	21 52.1	I Local 3 mi.															
8	i	22 26.7	I Local 3 mi.															
8	iP iS	23 25 43 47.2	I Local trace 22 mi.			+												
9	iP	02 04 55	I Distant				iP	02 04 55					iP	02 04 57				
9	i	07 59 01	I Distant			-35	iP	07 59 04				-25	iP i	07 59 05 08 00 20				-50
9													iP eS iS	13 03 34.5 54.7 55.5				
														I Regional 105 mi.				
10	iP iP iP i e	05 31 39.2 32 10 47 36 33 41 03	2.3 2.8 2.3			-	eP e e e i i	05 31 39.3 32 14 41 36 26 33 39 27					iP i i i	05 31 39 32 09 47 36 31	2.4			-
		II Distant New Hebrides ?																

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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
10	iP	09	40	00	I Distant				iP	09	40	00					iP	09	40	04				+
10									i	16	25.8		I Local 14 mi.											
10	eP	16	37	59					iP	16	38	03					iP	16	38	03				+
	iP		38	01		+		+78	iSKS		48	38					iP			04		+	?	+125
	i			13					eS		49	07					i		39	05				
	iSKS		48	33	4.5												iPP		41	22				
	iS		49	10													eZ		48	20				
	iPS			58													iSKS			35				
	ePPS		50	24	6.5												iS		49	06				
	II Distant - New Hebrides CGS 18° S 167° E: O = 16:24.9 Δ= 6300 mi.																ePPS		50	31				
																			51	45				
																	iPKKP		54	55	1.5			
																	coda				16.5			
10	eP	16	57	38					iP	16	57	44.5					iP	16	57	44				-
	iP			41	1.3												i	17	03	39	4			
	i			52																				
	i		58	42																				
	i	17	03	39	I Distant																			
10	i	19	36.5		I Local 5 mi.																			
10	iP	19	43	07					e	19	43.1						iP	19	43	07				
	iP			37.5						I Distant							iP			37				
	i		47	12													i		47	13				
																	iS		53	16				
10	iP	20	44	19.8	0.2	-8	-26	-75									iP	20	44	28.6				
	i			21.6													iP			29.2				
	iS			28.6													iS			43.3				
	II Local 45 mi. W of S - Probably 5 to 10 mi. SW of Searchlight																iS			44.2				
																		II Regional 75 mi.						

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		BOULDER CITY								OVERTON								PIERCE FERRY							
			Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
No.	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
	10	i	20	48.7		I Local 5 mi.																			
71	11	iP	08	41	58.9		+27	+33	-137	iP	08	42	04.1				-12	iP	08	40	04.6				
		i		42	01.3					iP			04.4					iP			05.0				
		iS			01.6					e			09.8					e			09.0				
		0		41	54.5					iS			10.5					iS			11.3				
			II Local 15.3 mi. NE								33½ mi.								35 mi.						
			Epicenter 8 mi. ENE of Boulder Dam																						
	11									i	11	13	07					iP	11	13	10.5				
										i			12					iP			23.5				
										i		14	01	I Regional				iS		14	14.5				
72	11	iP	17	03	08.6		+20	+35	-90	iP	17	03	13.8		-	+	+20	iP	17	03	15.4		+1½		
		iP			09.0					iP			14.1					i			16.0				+20
		iS			11.2					iS			20.3					iSN			22.5				
		iS			11.5				420	i			21.0					i			23.3				
		0			04.8					i			21.2					i			23.9				
			II Local 13.5 mi.								31.5 mi.								37 mi.						
			Epicenter 8½ mi. NE of Boulder Dam																						
12		i	00	57.0		I Local 5 mi.																			
12		iP	04	25	47	1.4	-	+		iP	04	25	46			-	+25	iP	04	25	49.5				+40
		i			52.5					iS		32	40					iS		32	47				
		iS		32	43								57					coda				9			
		i		36	37																				
			II Distant - CGS 51.5° N, 179° E, O= 4:17.0 Δ= 3350 mi. (Aleutian Islands)																						
12																		eP	10	08	40.5	I faint trace			
12		iP	10	37	39					iP	10	37	39.5				+25	iP	10	37	42				+40
		eS		48	00													iS		48	07				
			I Distant																						

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International Seismological Centre

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	12	10	33.9				+52	iP	12	10	42.5					iP	12	10	40.8				
	iS			36.2					iS			50.6					iP			41.1				
	iS			36.6					iS			50.9					i			41.4				
	O			30.5						42 mi.							eS			47.8				
	I Local 12 mi.																e			48.2				
	Epicenter 8 mi. ESE of Boulder Dam																	36 mi.						
12									iP	21	28	17				+25								
									iS?			17.7												
									i			19												
									II Local 3½ mi. or 10 mi.															
12	i	23	12.0		I Local 5 mi.																			
12	i	23	12.6		I Local 5 mi.																			
13	iP	01	01	10.5		+	+	-35																
	iS			11.5				150																
	I Local 5 mi. NE																							
13	e	06	48	51	I faint trace												iP	06	47	30				
13	iP	15	04	31.5		-1.6?	-4	+24	i	15	04	36.8					iP	15	04	39.6				
	i			32.2													i			40.1				
	iS			32.8													e			47.6				
	I Local 6½ mi.																eS			48.5				
																	iS			48.8				
13	i?	23	52	45						I Regional							iP	23	53	00				
	iP		53	00													iS		54	00				
	iS			44																				
15	i	03	17.7		I Local 5 mi.																			
15	iP	08	18	09				+	iP	08	18	06					iP	08	18	08				
	I Distant																							

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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
15	i	16	26.7		I Local 5 mi.																			
15	i	20	31.6		I Local 5 mi.																			
16	iP	00	27	17		+12	+9	-35																
	iS			18	II Local 5 mi. NE																			
16	eP	15	43	31	1.4	I Distant																		
16	i	17	46.0			+	+15																	
	I Local 10 mi. NE																							
17	iP	07	31	50.5	1.0			+	iP	07	31	50	1.0			+	iP	07	31	52				
	iP		32	04.5					iP		32	04					iP		41	52.5				
	i		41	53	1.0				iP		42	00	1.2				i		49	28				
	i		49	38	3.2												i		50	04				
	i		50	03	3.2																			
	i			28	3.2																			
	I Probably II Distant shocks																							
17	iP	14	36	52.5		+5	+5	-27	i	14	37	04.0					i	14	37	01.0				
	eSN			54.4					iSN			07.7					iSZ			7.3				
	iSEN			54.6					iSEZ			07.9					iEZ			7.9				
	iSZE			54.8						37 mi.							iSN			8.2				
	I Local 10 mi.																	37½ mi.						
	Probably epicenter S of Fortification Hill 4 mi. E. of Boulder Dam																							
17	i	19	14.4		I Local 2 mi.																			
17	iP	19	38	52													iP	19	39	05.1				
	eS			58.7													eS			21.0				
	i			59.4													iS			23.3				
	I Local 35 mi. Probably in Spring Mtns W or SW of Las Vegas																	I Local 81 mi.						
17									iP	19	59	11.3												
									eS			12.7												
									i			14.3												
									II Local 7 to 15 mi.															

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	BOULDER CITY							OVERTON							PIERCE FERRY						
Sep. 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	04	57.2		I Local 9 mi.																			
19	iP	14	21	44.3					iP	14	21	43.6				-	eP	14	21	43.5				
	I Distant																e		32	31				
																	e		33	25				
19	i	20	48	35													e	20	48	38				
	i			51	I trace																			
20	i	16	59.0			+	+10	-																
	I Local 6 mi. NNE																							
20	i	17	45.4					-																
	I Local 5 mi.																							
20	i	18	06.5		I Local 5 mi.																			
20	i	18	08.2		I Local 5 mi.																			
20																	i	18	56.2		I Local 35 mi.			
20	iP	20	28	08				-									iP	20	28	11.5				
	I Regional or Distant																							
20	eP	20	57	48	1.2				eP	20	57	52					eP	20	57	52.5				
	I Distant																							
20	i	23	33	35	I trace																			
21	i	04	46.4		I Local 2 mi.																			
21	eP?	05	21	39.5					eP	05	21	38					iP	05	21	46.5				
	e			25 28																				
	I Distant																							

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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
21	iP	09	14	29				+	iP	09	14	31.5												
	I Distant																							
21	eP	20	26	33.5					e	20	26	44					eP	20	26	36				
	iP			38.5	I Regional ?																			
21	eP	22	40	23	I Distant ?				eP	22	40	29.5					iP	22	40	40.5				
22									e	01	58	52	I trace				e	01	58	43.5				
22									i	02	08	30	I trace											
22																	iP	02	21	10				
																	iP			19				
																	iS		22	02	I Regional			
22	iP	05	19	21.5		+20	-14	+133									eS	05	19	42.9				
	iS			22.7													iS			43.3				
	II Local 6 mi. WNW																							
22	eP	05	48	11	2.5				eP	05	48	42.5					e	05	48	16				
	I Distant								iP			45.5					eP			28				
22	iP	10	48	58	1.4	I Distant			iP	10	48	59					eP	10	49	01				
22	eP	16	00	55.5	I Distant																			
22	i	20	59.0		I Local 5 mi. NW																			
22	i	21	46	42					iP	21	46	48												
	i		47	14	I trace				e		47	32												
22	iP	22	43	17.7				+	iP	22	43	19.5		-		+	iP	22	43	15				
	iP			32.4	1.3				iP			34					iP			31				
	eS		52	53					iS		52	56					iS		52	47				
	eS		53	20	II Distant												e		53	14				

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No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
74 22	e	23 04 00.6	2.1			
		I trace				
23	iP	06 14 42.8		+10	+15	-24
	iS	56.8		300	400	350+
		II Regional 72 mi. N.E.				
		Epicenter in Grand Wash 2 or 3 mi. SW of Cane Springs				
23	iP	08 17 03.6		+10	0	+20
	iP	08.3				
	m				1000	
	iS	41.8				
	iS	46				
		III Regional 210 mi. W Owens Valley, California				
24						
24	i	07 26 41.6				
	iP	43.2				
	eS	27 24				
		I Regional				
24	iP	11 32 09.5				
	iS	45.2				
	iS	46.2				
		I Regional				
25	eP	09 27 16.5				
	iP	24.5				
	iS	28 24				
	iS	29				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
e	22 59 56				
e	23 03 42				
iPZ	06 14 33.3				+90
IPEN	33.7		-30	-30	
iS	40.5				
	III 37 mi. NE?				
iP	08 17 08.1		+		+25
iP	12.7				
iP	17.5				
iS	51.0				
iS	52.5				
	240 mi. W				
eP	03 40 12	I trace Distant			
eP	07 26 41.3				
iP	47.5				
iS	27 29				
	II Regional				
eP	11 31 57				
iP	59.5				
iS	32 27.5				
iS	28.5				
	I Regional				
e	09 27 11				
iP	20				
iS	28 17				
	II Regional				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
	Clock stopped				
iP	16 14 30		+50	-100	+
iS	37				
	III 36 mi. ?				
	No time control at Pierce Ferry				
eP	07 27 00				
iP	07				
eS	54				
	S-P = 30 sec. No time control				
	Epicenter probably 10-20 mi. NE of Bryce Canyon				
eP	19 27 00				
iP	17½				
eS	28 20				
iS	23 No time control				

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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
25	i	13	19	15					i	13	19	15												
	i			20					iP			21												
25																	iP	23	50	00		-15	-32	+100
																	e			06.5				
																	iS			06.8	No time control			
																		II Local 35 mi. NNE						
27									eP	03	06	30	I trace											
27	e	03	14	28	I Trace				e	03	14	17												
27	iP	14	19	06.8					iP	14	19	09.5												
	iP			15.2																				
27	iP	15	39	10					iP	15	39	11												
	iPP		43	00					i		43	06												
	eS		49	44	II Distant				iS		49	53												
27	iP	19	20	13	I trace																			
28	e	01	19	08					eP	01	19	15					eP	01	19	11				
	i			10	I Distant												e		30	08				
28	i	07	21	08.5					i	07	21	10.5					i	07	21	19				
	i			58.5							22	24												
	I trace Regional																							
28	i	10	14.0		I Local 6 mi.																			
29									iP	11	14	45	I Distant				iP	11	14	48				
29	iP	14	02	46.3	I Distant				iP	14	02	47					iP	14	02	48.3				
																	eS		09	46				
29									iP	20	04	30												
									eS			33.5	II Local 18 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
29	iP	23	02	08.5					iP	23	02	11					iP	23	02	07.5				
	eS?		09	43	2.5	I Distant			i		08	16					i		09	40				
29-30	eP?	23	51	24.5					iP	23	51	27					iP	23	51	23				
	e		59	15													e	00	01	34				
	I Distant																e		02	40				
30									iP	15	28	22.3				-?								
									iEN			22.7												
									iS			24.3				780								
									III Local 10 mi.															
30	e	19	59	04	I trace												iP	19	59	11				
30	eP	22	06	06					ePZ	22	06	03.5					eP	22	06	05				
	i?		09	05.5					ePE			10.5					e		14	55				
	e		10	02	II Distant				e		10	35												
31									iP	03	04	48	I Distant				iP	03	04	44				
31	e	04	03	57	I trace				e	04	03	50					e	04	03	56				
									coda				6.5											
31									iP	13	40	00	I Distant				iP	13	39	59				
31	iP	22	01	52.5	1.6												iP	22	01	49				
	e		11	40																				
	I Distant																							
31																	i	22	48	23				
																		I Regional						